

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3G-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3G-32H-K268	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-R68W (File)			
Site Position:		Northing:	1,275,973.93 ft	Latitude:	40.089950
From:	Lat/Long	Easting:	3,133,277.97 ft	Longitude:	-105.023660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.31 °

Well	File 3G-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,917.26 ft	Latitude:	40.092570
	+E/-W	0.0 ft	Easting:	3,131,199.75 ft	Longitude:	-105.031070
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,958.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/27/2013	8.71	66.69	52,726

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
777.8	2.78	87.23	777.7	0.3	6.7	1.00	1.00	0.00	87.23	
6,811.6	2.78	87.23	6,804.4	14.4	298.9	0.00	0.00	0.00	0.00	
7,712.9	90.00	180.00	7,378.0	-558.5	326.7	10.00	9.68	10.29	92.76	
11,012.9	90.00	180.00	7,378.0	-3,858.5	326.7	0.00	0.00	0.00	0.00	File 3G-32H-K268 TG
12,312.9	90.00	180.00	7,378.0	-5,158.5	326.7	0.00	0.00	0.00	0.00	
12,624.2	90.00	176.89	7,378.0	-5,469.6	335.1	1.00	0.00	-1.00	-90.00	
13,822.6	90.00	176.89	7,378.0	-6,666.3	400.2	0.00	0.00	0.00	0.00	File 3G-32H-K268 PB

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Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3G-32H-K268	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	
271.0	0.00	0.00	271.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	87.23	600.0	0.0	0.9	0.0	1.00	1.00	
700.0	2.00	87.23	700.0	0.2	3.5	-0.2	1.00	1.00	
777.8	2.78	87.23	777.7	0.3	6.7	-0.3	1.00	1.00	EOB; Inc=2.78°
800.0	2.78	87.23	799.9	0.4	7.8	-0.4	0.00	0.00	
900.0	2.78	87.23	899.7	0.6	12.6	-0.6	0.00	0.00	
1,000.0	2.78	87.23	999.6	0.8	17.5	-0.8	0.00	0.00	
1,100.0	2.78	87.23	1,099.5	1.1	22.3	-1.1	0.00	0.00	
1,200.0	2.78	87.23	1,199.4	1.3	27.2	-1.3	0.00	0.00	
1,300.0	2.78	87.23	1,299.3	1.5	32.0	-1.5	0.00	0.00	
1,400.0	2.78	87.23	1,399.2	1.8	36.8	-1.8	0.00	0.00	
1,500.0	2.78	87.23	1,499.0	2.0	41.7	-2.0	0.00	0.00	
1,600.0	2.78	87.23	1,598.9	2.2	46.5	-2.2	0.00	0.00	
1,700.0	2.78	87.23	1,698.8	2.5	51.4	-2.5	0.00	0.00	
1,800.0	2.78	87.23	1,798.7	2.7	56.2	-2.7	0.00	0.00	
1,900.0	2.78	87.23	1,898.6	3.0	61.1	-3.0	0.00	0.00	
2,000.0	2.78	87.23	1,998.5	3.2	65.9	-3.2	0.00	0.00	
2,100.0	2.78	87.23	2,098.3	3.4	70.7	-3.4	0.00	0.00	
2,200.0	2.78	87.23	2,198.2	3.7	75.6	-3.7	0.00	0.00	
2,300.0	2.78	87.23	2,298.1	3.9	80.4	-3.9	0.00	0.00	
2,400.0	2.78	87.23	2,398.0	4.1	85.3	-4.1	0.00	0.00	
2,500.0	2.78	87.23	2,497.9	4.4	90.1	-4.4	0.00	0.00	
2,600.0	2.78	87.23	2,597.7	4.6	94.9	-4.6	0.00	0.00	
2,700.0	2.78	87.23	2,697.6	4.8	99.8	-4.8	0.00	0.00	
2,800.0	2.78	87.23	2,797.5	5.1	104.6	-5.1	0.00	0.00	
2,900.0	2.78	87.23	2,897.4	5.3	109.5	-5.3	0.00	0.00	
3,000.0	2.78	87.23	2,997.3	5.5	114.3	-5.5	0.00	0.00	
3,100.0	2.78	87.23	3,097.2	5.8	119.2	-5.8	0.00	0.00	
3,200.0	2.78	87.23	3,197.0	6.0	124.0	-6.0	0.00	0.00	
3,300.0	2.78	87.23	3,296.9	6.2	128.8	-6.2	0.00	0.00	
3,400.0	2.78	87.23	3,396.8	6.5	133.7	-6.5	0.00	0.00	
3,500.0	2.78	87.23	3,496.7	6.7	138.5	-6.7	0.00	0.00	
3,600.0	2.78	87.23	3,596.6	6.9	143.4	-6.9	0.00	0.00	
3,700.0	2.78	87.23	3,696.5	7.2	148.2	-7.2	0.00	0.00	
3,800.0	2.78	87.23	3,796.3	7.4	153.0	-7.4	0.00	0.00	
3,900.0	2.78	87.23	3,896.2	7.6	157.9	-7.6	0.00	0.00	
4,000.0	2.78	87.23	3,996.1	7.9	162.7	-7.9	0.00	0.00	
4,100.0	2.78	87.23	4,096.0	8.1	167.6	-8.1	0.00	0.00	
4,200.0	2.78	87.23	4,195.9	8.3	172.4	-8.3	0.00	0.00	
4,300.0	2.78	87.23	4,295.8	8.6	177.3	-8.6	0.00	0.00	
4,331.3	2.78	87.23	4,327.0	8.6	178.8	-8.6	0.00	0.00	Sussex
4,400.0	2.78	87.23	4,395.6	8.8	182.1	-8.8	0.00	0.00	
4,500.0	2.78	87.23	4,495.5	9.0	186.9	-9.0	0.00	0.00	
4,600.0	2.78	87.23	4,595.4	9.3	191.8	-9.3	0.00	0.00	
4,612.6	2.78	87.23	4,608.0	9.3	192.4	-9.3	0.00	0.00	Sussex Marker
4,700.0	2.78	87.23	4,695.3	9.5	196.6	-9.5	0.00	0.00	

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Well:	File 3G-32H-K268	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	2.78	87.23	4,795.2	9.7	201.5	-9.7	0.00	0.00	
4,900.0	2.78	87.23	4,895.0	10.0	206.3	-10.0	0.00	0.00	
4,905.0	2.78	87.23	4,900.0	10.0	206.5	-10.0	0.00	0.00	Shannon
5,000.0	2.78	87.23	4,994.9	10.2	211.1	-10.2	0.00	0.00	
5,100.0	2.78	87.23	5,094.8	10.4	216.0	-10.4	0.00	0.00	
5,200.0	2.78	87.23	5,194.7	10.7	220.8	-10.7	0.00	0.00	
5,300.0	2.78	87.23	5,294.6	10.9	225.7	-10.9	0.00	0.00	
5,400.0	2.78	87.23	5,394.5	11.1	230.5	-11.1	0.00	0.00	
5,500.0	2.78	87.23	5,494.3	11.4	235.4	-11.4	0.00	0.00	
5,600.0	2.78	87.23	5,594.2	11.6	240.2	-11.6	0.00	0.00	
5,700.0	2.78	87.23	5,694.1	11.8	245.0	-11.8	0.00	0.00	
5,800.0	2.78	87.23	5,794.0	12.1	249.9	-12.1	0.00	0.00	
5,900.0	2.78	87.23	5,893.9	12.3	254.7	-12.3	0.00	0.00	
6,000.0	2.78	87.23	5,993.8	12.5	259.6	-12.5	0.00	0.00	
6,100.0	2.78	87.23	6,093.6	12.8	264.4	-12.8	0.00	0.00	
6,200.0	2.78	87.23	6,193.5	13.0	269.2	-13.0	0.00	0.00	
6,300.0	2.78	87.23	6,293.4	13.2	274.1	-13.2	0.00	0.00	
6,400.0	2.78	87.23	6,393.3	13.5	278.9	-13.5	0.00	0.00	
6,500.0	2.78	87.23	6,493.2	13.7	283.8	-13.7	0.00	0.00	
6,600.0	2.78	87.23	6,593.0	13.9	288.6	-13.9	0.00	0.00	
6,700.0	2.78	87.23	6,692.9	14.2	293.5	-14.2	0.00	0.00	
6,800.0	2.78	87.23	6,792.8	14.4	298.3	-14.4	0.00	0.00	
6,807.2	2.78	87.23	6,800.0	14.4	298.6	-14.4	0.00	0.00	Teepee Buttes (*if present)
6,811.6	2.78	87.23	6,804.4	14.4	298.9	-14.4	0.00	0.00	Start build/turn @ 6811' MD
6,900.0	9.14	162.46	6,892.4	7.8	303.1	-7.8	10.00	7.19	
7,000.0	18.91	171.86	6,989.3	-15.8	307.8	15.8	10.00	9.77	
7,100.0	28.83	174.95	7,080.6	-56.0	312.2	56.0	10.00	9.93	
7,200.0	38.79	176.54	7,163.6	-111.4	316.3	111.4	10.00	9.96	
7,258.1	44.59	177.18	7,207.0	-150.0	318.4	150.0	10.00	9.97	Sharon Springs
7,300.0	48.77	177.57	7,235.7	-180.4	319.8	180.4	10.00	9.98	
7,400.0	58.75	178.31	7,294.8	-260.9	322.6	260.9	10.00	9.98	
7,428.7	61.61	178.50	7,309.0	-285.8	323.3	285.8	10.00	9.98	Niobrara
7,500.0	68.73	178.92	7,338.9	-350.5	324.8	350.5	10.00	9.99	
7,600.0	78.72	179.45	7,366.9	-446.3	326.1	446.3	10.00	9.99	
7,605.7	79.29	179.47	7,368.0	-451.9	326.2	451.9	10.00	9.99	B Chalk
7,700.0	88.71	179.94	7,377.9	-545.6	326.7	545.6	10.00	9.99	
7,712.9	90.00	180.00	7,378.0	-558.5	326.7	558.5	10.00	9.99	LP @ 7378' TVD; 90°
7,800.0	90.00	180.00	7,378.0	-645.6	326.7	645.6	0.00	0.00	
7,900.0	90.00	180.00	7,378.0	-745.6	326.7	745.6	0.00	0.00	
8,000.0	90.00	180.00	7,378.0	-845.6	326.7	845.6	0.00	0.00	
8,100.0	90.00	180.00	7,378.0	-945.6	326.7	945.6	0.00	0.00	
8,200.0	90.00	180.00	7,378.0	-1,045.6	326.7	1,045.6	0.00	0.00	
8,300.0	90.00	180.00	7,378.0	-1,145.6	326.7	1,145.6	0.00	0.00	
8,400.0	90.00	180.00	7,378.0	-1,245.6	326.7	1,245.6	0.00	0.00	
8,500.0	90.00	180.00	7,378.0	-1,345.6	326.7	1,345.6	0.00	0.00	
8,600.0	90.00	180.00	7,378.0	-1,445.6	326.7	1,445.6	0.00	0.00	
8,700.0	90.00	180.00	7,378.0	-1,545.6	326.7	1,545.6	0.00	0.00	
8,800.0	90.00	180.00	7,378.0	-1,645.6	326.7	1,645.6	0.00	0.00	
8,900.0	90.00	180.00	7,378.0	-1,745.6	326.7	1,745.6	0.00	0.00	
9,000.0	90.00	180.00	7,378.0	-1,845.6	326.7	1,845.6	0.00	0.00	
9,100.0	90.00	180.00	7,378.0	-1,945.6	326.7	1,945.6	0.00	0.00	
9,200.0	90.00	180.00	7,378.0	-2,045.6	326.7	2,045.6	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3G-32H-K268	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
9,300.0	90.00	180.00	7,378.0	-2,145.6	326.7	2,145.6	0.00	0.00	
9,400.0	90.00	180.00	7,378.0	-2,245.6	326.7	2,245.6	0.00	0.00	
9,500.0	90.00	180.00	7,378.0	-2,345.6	326.7	2,345.6	0.00	0.00	
9,600.0	90.00	180.00	7,378.0	-2,445.6	326.7	2,445.6	0.00	0.00	
9,700.0	90.00	180.00	7,378.0	-2,545.6	326.7	2,545.6	0.00	0.00	
9,800.0	90.00	180.00	7,378.0	-2,645.6	326.7	2,645.6	0.00	0.00	
9,900.0	90.00	180.00	7,378.0	-2,745.6	326.7	2,745.6	0.00	0.00	
10,000.0	90.00	180.00	7,378.0	-2,845.6	326.7	2,845.6	0.00	0.00	
10,100.0	90.00	180.00	7,378.0	-2,945.6	326.7	2,945.6	0.00	0.00	
10,200.0	90.00	180.00	7,378.0	-3,045.6	326.7	3,045.6	0.00	0.00	
10,300.0	90.00	180.00	7,378.0	-3,145.6	326.7	3,145.6	0.00	0.00	
10,400.0	90.00	180.00	7,378.0	-3,245.6	326.7	3,245.6	0.00	0.00	
10,500.0	90.00	180.00	7,378.0	-3,345.6	326.7	3,345.6	0.00	0.00	
10,600.0	90.00	180.00	7,378.0	-3,445.6	326.7	3,445.6	0.00	0.00	
10,700.0	90.00	180.00	7,378.0	-3,545.6	326.7	3,545.6	0.00	0.00	
10,800.0	90.00	180.00	7,378.0	-3,645.6	326.7	3,645.6	0.00	0.00	
10,900.0	90.00	180.00	7,378.0	-3,745.6	326.7	3,745.6	0.00	0.00	
11,000.0	90.00	180.00	7,378.0	-3,845.6	326.7	3,845.6	0.00	0.00	
11,012.9	90.00	180.00	7,378.0	-3,858.5	326.7	3,858.5	0.00	0.00	
11,100.0	90.00	180.00	7,378.0	-3,945.6	326.7	3,945.6	0.00	0.00	
11,200.0	90.00	180.00	7,378.0	-4,045.6	326.7	4,045.6	0.00	0.00	
11,300.0	90.00	180.00	7,378.0	-4,145.6	326.7	4,145.6	0.00	0.00	
11,400.0	90.00	180.00	7,378.0	-4,245.6	326.7	4,245.6	0.00	0.00	
11,500.0	90.00	180.00	7,378.0	-4,345.6	326.7	4,345.6	0.00	0.00	
11,600.0	90.00	180.00	7,378.0	-4,445.6	326.7	4,445.6	0.00	0.00	
11,700.0	90.00	180.00	7,378.0	-4,545.6	326.7	4,545.6	0.00	0.00	
11,800.0	90.00	180.00	7,378.0	-4,645.6	326.7	4,645.6	0.00	0.00	
11,900.0	90.00	180.00	7,378.0	-4,745.6	326.7	4,745.6	0.00	0.00	
12,000.0	90.00	180.00	7,378.0	-4,845.6	326.7	4,845.6	0.00	0.00	
12,100.0	90.00	180.00	7,378.0	-4,945.6	326.7	4,945.6	0.00	0.00	
12,200.0	90.00	180.00	7,378.0	-5,045.6	326.7	5,045.6	0.00	0.00	
12,300.0	90.00	180.00	7,378.0	-5,145.6	326.7	5,145.6	0.00	0.00	
12,312.9	90.00	180.00	7,378.0	-5,158.5	326.7	5,158.5	0.00	0.00	Start turn @ 12312' MD
12,400.0	90.00	179.13	7,378.0	-5,245.6	327.3	5,245.6	1.00	0.00	
12,500.0	90.00	178.13	7,378.0	-5,345.6	329.7	5,345.6	1.00	0.00	
12,600.0	90.00	177.13	7,378.0	-5,445.5	333.9	5,445.5	1.00	0.00	
12,624.2	90.00	176.89	7,378.0	-5,469.6	335.1	5,469.6	1.00	0.00	End of turn @ 12624' MD
12,700.0	90.00	176.89	7,378.0	-5,545.3	339.2	5,545.3	0.00	0.00	
12,800.0	90.00	176.89	7,378.0	-5,645.2	344.7	5,645.2	0.00	0.00	
12,900.0	90.00	176.89	7,378.0	-5,745.0	350.1	5,745.0	0.00	0.00	
13,000.0	90.00	176.89	7,378.0	-5,844.9	355.5	5,844.9	0.00	0.00	
13,100.0	90.00	176.89	7,378.0	-5,944.7	360.9	5,944.7	0.00	0.00	
13,200.0	90.00	176.89	7,378.0	-6,044.6	366.4	6,044.6	0.00	0.00	
13,300.0	90.00	176.89	7,378.0	-6,144.4	371.8	6,144.4	0.00	0.00	
13,400.0	90.00	176.89	7,378.0	-6,244.3	377.2	6,244.3	0.00	0.00	
13,500.0	90.00	176.89	7,378.0	-6,344.2	382.7	6,344.2	0.00	0.00	
13,600.0	90.00	176.89	7,378.0	-6,444.0	388.1	6,444.0	0.00	0.00	
13,700.0	90.00	176.89	7,378.0	-6,543.9	393.5	6,543.9	0.00	0.00	
13,800.0	90.00	176.89	7,378.0	-6,643.7	399.0	6,643.7	0.00	0.00	
13,822.6	90.00	176.89	7,378.0	-6,666.3	400.2	6,666.3	0.00	0.00	TD at 13822.6

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well File 3G-32H-K268
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site:	S32-T2N-R68W (File)	North Reference:	True
Well:	File 3G-32H-K268	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
File 3G-32H-K268 PBHL	0.00	0.00	7,378.0	-6,666.3	400.2	1,270,253.20	3,131,635.18	40.074270	-105.029640
- plan hits target center									
- Point									
File 3G-32H-K268 TGT	0.00	0.00	7,378.0	-3,858.5	326.7	1,273,060.53	3,131,546.81	40.081978	-105.029903
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
271.0	271.0	Fox Hills - BASE				
4,331.3	4,327.0	Sussex				
4,612.6	4,608.0	Sussex Marker				
4,905.0	4,900.0	Shannon				
6,807.2	6,800.0	Teepee Buttes (*if present)				
7,258.1	7,207.0	Sharon Springs				
7,428.7	7,309.0	Niobrara				
7,605.7	7,368.0	B Chalk				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
777.8	777.7	0.3	6.7	EOB; Inc=2.78°
6,811.6	6,804.4	14.4	298.9	Start build/turn @ 6811' MD
7,712.9	7,378.0	-558.5	326.7	LP @ 7378' TVD; 90°
12,312.9	7,378.0	-3,858.5	326.7	Start turn @ 12312' MD
12,624.2	7,378.0	-5,158.5	326.7	End of turn @ 12624' MD
13,822.6	7,378.0	-5,469.6	335.1	TD at 13822.6

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R68W (File)

File 3G-32H-K268

Hz

Plan #1

Anticollision Report

28 June, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	13,822.5	Plan #1 (Hz)	Geolink MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
ANDERSON 21-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 22-32 (EXISTING) - KPK WELL - NO SURV						Out of range
ANDERSON 22-32 ENC (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST C UNIT 2 (EXISTING) - ENCANA W						Out of range
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV	10,997.1	7,438.0	69.8	-13.3	0.840	Level 1, CC, ES, SF
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - Plan #2						Out of range
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE	9,408.2	7,435.0	194.6	138.6	3.476	CC, ES, SF
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1	200.0	199.0	42.0	41.3	64.463	CC, ES
File 3A-32H-K268 - Hz - Plan #1	600.0	595.4	56.5	54.5	27.696	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	36.6	35.6	36.550	CC, ES
File 3B-32H-K268 - Hz - Plan #1	600.0	596.8	45.2	43.1	22.105	SF
File 3C-32H-K268 - Hz - Plan #1	400.0	399.0	30.8	29.4	22.811	CC, ES
File 3C-32H-K268 - Hz - Plan #1	600.0	597.9	35.0	32.9	17.105	SF
File 3D-32H-K268 - Hz - Plan #1	500.0	499.0	25.4	23.7	14.982	CC, ES
File 3D-32H-K268 - Hz - Plan #1	600.0	598.5	27.1	25.1	13.268	SF
File 3E-32H-K268 - Hz - Plan #1	500.0	500.0	11.2	9.5	6.583	CC, ES
File 3E-32H-K268 - Hz - Plan #1	600.0	600.0	12.1	10.0	5.888	SF
File 3F-32H-K268 - Hz - Plan #1	500.0	500.0	6.7	5.0	3.926	CC, ES
File 3F-32H-K268 - Hz - Plan #1	13,300.0	13,585.5	364.0	190.8	2.102	SF
File 3H-32H-K268 - Hz - Plan #1	333.5	333.5	6.7	5.6	5.968	CC
File 3H-32H-K268 - Hz - Plan #1	400.0	399.9	6.9	5.5	5.091	ES
File 3H-32H-K268 - Hz - Plan #1	13,822.6	14,182.2	417.6	215.6	2.068	SF
File 3I-32H-K268 - Hz - Plan #1	642.0	642.4	6.6	4.4	2.938	CC, ES, SF
File 3J-32H-K268 - Hz - Plan #1	735.0	735.5	6.2	3.6	2.391	CC, ES, SF
File 3K-32H-K268 - Hz - Plan #1	829.3	829.5	13.0	10.0	4.435	CC, ES, SF
File 3L-32H-K268 - Hz - Plan #1	887.0	887.0	14.8	11.7	4.731	CC, ES
File 3L-32H-K268 - Hz - Plan #1	900.0	899.9	14.9	11.7	4.689	SF
File 3M-32H-K268 - Hz - Plan #1	800.0	799.3	43.8	40.9	15.281	CC, ES
File 3M-32H-K268 - Hz - Plan #1	1,000.0	997.9	50.2	46.7	14.070	SF
File 3N-32H-K268 - Hz - Plan #1	800.0	798.1	52.8	50.0	18.870	CC, ES
File 3N-32H-K268 - Hz - Plan #1	7,413.5	7,442.9	145.3	117.7	5.254	SF
File 3O-32H-K268 - Hz - Plan #1	233.5	233.5	58.8	58.0	76.346	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	299.7	58.9	57.9	58.806	ES
File 3O-32H-K268 - Hz - Plan #1	7,625.3	7,419.8	186.3	155.2	5.998	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	64.5	63.8	98.738	CC, ES
File 3P-32H-K268 - Hz - Plan #1	1,100.0	1,087.8	105.2	101.3	27.559	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU	12,542.5	7,452.0	192.2	82.1	1.745	CC, ES, SF
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	5,008.7	4,996.0	218.4	200.5	12.212	CC, ES, SF
NELSON 5 (EXISTING) - VESSELS WELL - NO SURVE						Out of range
NELSON 5 TT (EXISTING) - TEXAS TEA WELL - NO SU						Out of range
NELSON 6 (EXISTING) - VESSELS WELL - NO SURVE						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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S32-T2N-R68W (File)						
NELSON E UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
PAQUETTE 13-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - N	13,432.1	7,422.0	270.2	144.7	2.152	CC, ES, SF
RAY NELSON 0-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 12-32 (EXISTING) - ENCANA WELL - NO						Out of range
RAY NELSON 13-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 14-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	6,845.6	6,741.3	238.4	214.3	9.901	CC, ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	6,900.0	6,795.4	239.5	215.2	9.869	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU	8,401.6	7,477.6	94.8	52.9	2.266	CC, ES, SF
RAY NELSON 2-4-32 (EXISTING) - ENCANA WELL - NO						Out of range
Ray Nelson 33-32 - DD - Plan #1						Out of range
Ray Nelson 34-32 - DD - Plan #2						Out of range
Ray Nelson 44-32 - DD - Plan #2						Out of range
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
Ray Nelson 7-8-32 - DD - Plan #1						Out of range
Ray Nelson 8-8-32 - DD - Plan #2						Out of range
SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - N	12,840.4	7,437.0	417.4	302.1	3.620	CC, ES, SF
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1	6,833.2	6,912.6	493.8	463.2	16.145	CC, ES
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1	6,900.0	6,973.0	496.9	465.9	16.043	SF
WANDELL 41-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 42-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range
WANDELL 43-7 (EXISTING) - ENCANA WELL - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8427-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		
10,600.0	7,378.0	7,438.0	7,438.0	63.6	13.0	-90.00	-3,842.8	396.5	403.3	327.0	76.30	5.285		
10,700.0	7,378.0	7,438.0	7,438.0	65.3	13.0	-90.00	-3,842.8	396.5	305.3	227.2	78.02	3.913		
10,800.0	7,378.0	7,438.0	7,438.0	67.0	13.0	-90.00	-3,842.8	396.5	209.2	129.4	79.74	2.623		
10,900.0	7,378.0	7,438.0	7,438.0	68.7	13.0	-90.00	-3,842.8	396.5	119.7	38.2	81.47	1.469	Level 3	
10,997.1	7,378.0	7,438.0	7,438.0	70.4	13.0	-90.00	-3,842.8	396.5	69.8	-13.3	83.14	0.840	Level 1, CC, ES, SF	
11,000.0	7,378.0	7,438.0	7,438.0	70.4	13.0	-90.00	-3,842.8	396.5	69.9	-13.3	83.19	0.840	Level 1	
11,100.0	7,378.0	7,438.0	7,438.0	72.2	13.0	-90.00	-3,842.8	396.5	124.3	39.4	84.92	1.464	Level 3	
11,200.0	7,378.0	7,438.0	7,438.0	73.9	13.0	-90.00	-3,842.8	396.5	214.5	127.9	86.65	2.476		
11,300.0	7,378.0	7,438.0	7,438.0	75.6	13.0	-90.00	-3,842.8	396.5	310.8	222.4	88.38	3.517		
11,400.0	7,378.0	7,438.0	7,438.0	77.3	13.0	-90.00	-3,842.8	396.5	408.8	318.7	90.11	4.537		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7864-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,378.0	7,435.0	7,435.0	36.7	13.0	-90.00	-2,253.8	521.3	452.2	403.0	49.18	9.194		
9,100.0	7,378.0	7,435.0	7,435.0	38.3	13.0	-90.00	-2,253.8	521.3	364.5	313.6	50.84	7.170		
9,200.0	7,378.0	7,435.0	7,435.0	39.9	13.0	-90.00	-2,253.8	521.3	285.0	232.5	52.50	5.428		
9,300.0	7,378.0	7,435.0	7,435.0	41.6	13.0	-90.00	-2,253.8	521.3	222.7	168.5	54.17	4.110		
9,400.0	7,378.0	7,435.0	7,435.0	43.3	13.0	-90.00	-2,253.8	521.3	194.8	138.9	55.85	3.488		
9,408.2	7,378.0	7,435.0	7,435.0	43.4	13.0	-90.00	-2,253.8	521.3	194.6	138.6	55.98	3.476	CC, ES, SF	
9,500.0	7,378.0	7,435.0	7,435.0	44.9	13.0	-90.00	-2,253.8	521.3	215.2	157.7	57.53	3.740		
9,600.0	7,378.0	7,435.0	7,435.0	46.6	13.0	-90.00	-2,253.8	521.3	273.2	214.0	59.22	4.615		
9,700.0	7,378.0	7,435.0	7,435.0	48.3	13.0	-90.00	-2,253.8	521.3	350.8	289.8	60.91	5.759		
9,800.0	7,378.0	7,435.0	7,435.0	50.0	13.0	-90.00	-2,253.8	521.3	437.5	374.9	62.60	6.988		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3A-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.99	0.0	-42.0	42.0					
100.0	100.0	99.0	99.0	0.2	0.2	-89.99	0.0	-42.0	42.0	41.7	0.30	138.883		
200.0	200.0	199.0	199.0	0.3	0.3	-89.99	0.0	-42.0	42.0	41.3	0.65	64.463 CC, ES		
300.0	300.0	298.3	298.3	0.5	0.5	-90.14	-0.1	-42.8	42.8	41.8	1.00	42.821		
400.0	400.0	397.5	397.4	0.7	0.7	-90.55	-0.4	-45.3	45.4	44.0	1.35	33.549		
500.0	500.0	496.6	496.4	0.8	0.9	-91.14	-1.0	-49.6	49.7	47.9	1.71	28.994		
600.0	600.0	595.4	595.1	1.0	1.1	-179.05	-1.7	-55.5	56.5	54.5	2.04	27.696 SF		
700.0	700.0	693.8	693.2	1.2	1.3	-179.73	-2.7	-63.1	66.9	64.5	2.39	28.017		
800.0	799.9	791.6	790.6	1.4	1.5	179.69	-3.9	-72.2	80.6	77.8	2.73	29.517		
900.0	899.7	888.9	887.2	1.6	1.7	179.22	-5.3	-83.0	96.5	93.4	3.07	31.399		
1,000.0	999.6	985.5	983.1	1.8	2.0	178.82	-6.9	-95.3	114.1	110.7	3.42	33.403		
1,100.0	1,099.5	1,081.6	1,078.1	1.9	2.3	178.50	-8.7	-109.1	133.4	129.6	3.76	35.494		
1,200.0	1,199.4	1,177.0	1,172.3	2.1	2.6	178.23	-10.7	-124.4	154.2	150.1	4.10	37.648		
1,300.0	1,299.3	1,271.7	1,265.4	2.3	2.9	177.99	-12.8	-141.1	176.8	172.3	4.44	39.851		
1,400.0	1,399.2	1,365.6	1,357.6	2.5	3.3	177.79	-15.2	-159.1	200.9	196.1	4.77	42.090		
1,500.0	1,499.0	1,458.8	1,448.7	2.7	3.6	177.62	-17.7	-178.5	226.6	221.5	5.11	44.357		
1,600.0	1,598.9	1,551.2	1,538.7	2.9	4.0	177.47	-20.4	-199.2	253.8	248.4	5.44	46.646		
1,700.0	1,698.8	1,642.6	1,627.4	3.1	4.4	177.34	-23.2	-221.1	282.6	276.8	5.77	48.953		
1,800.0	1,798.7	1,737.5	1,719.2	3.3	4.9	177.22	-26.3	-244.7	312.4	306.3	6.11	51.120		
1,900.0	1,898.6	1,832.9	1,811.6	3.5	5.3	177.13	-29.4	-268.5	342.1	335.7	6.45	53.054		
2,000.0	1,998.5	1,928.4	1,904.0	3.7	5.8	177.05	-32.4	-292.3	371.9	365.1	6.79	54.796		
2,100.0	2,098.3	2,023.9	1,996.5	3.9	6.2	176.98	-35.5	-316.1	401.7	394.6	7.13	56.374		
2,200.0	2,198.2	2,119.3	2,088.9	4.1	6.7	176.92	-38.6	-339.9	431.5	424.0	7.46	57.809		
2,300.0	2,298.1	2,214.8	2,181.3	4.2	7.1	176.86	-41.7	-363.7	461.2	453.4	7.80	59.120		
2,400.0	2,398.0	2,310.3	2,273.7	4.4	7.6	176.82	-44.8	-387.5	491.0	482.9	8.14	60.323		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3B-32H-K268 - 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	-84.27	3.6	-36.4	36.6					
100.0	100.0	99.0	99.0	0.2	0.2	-84.27	3.6	-36.4	36.6	36.3	0.30	120.969		
200.0	200.0	199.0	199.0	0.3	0.3	-84.27	3.6	-36.4	36.6	35.9	0.65	56.148		
300.0	300.0	299.0	299.0	0.5	0.5	-84.27	3.6	-36.4	36.6	35.6	1.00	36.550 CC, ES		
400.0	400.0	398.4	398.4	0.7	0.7	-84.28	3.7	-37.2	37.4	36.1	1.35	27.732		
500.0	500.0	497.7	497.6	0.8	0.9	-84.31	4.0	-39.8	40.0	38.3	1.70	23.512		
600.0	600.0	596.8	596.7	1.0	1.0	-171.73	4.4	-44.0	45.2	43.1	2.04	22.105 SF		
700.0	700.0	695.6	695.2	1.2	1.2	-172.13	4.9	-50.0	53.8	51.4	2.39	22.513		
800.0	799.9	793.8	793.2	1.4	1.4	-172.60	5.6	-57.5	65.8	63.1	2.73	24.071		
900.0	899.7	891.6	890.5	1.6	1.7	-172.96	6.5	-66.7	80.0	77.0	3.08	25.999		
1,000.0	999.6	988.8	987.1	1.8	1.9	-173.19	7.5	-77.5	96.0	92.5	3.42	28.040		
1,100.0	1,099.5	1,085.5	1,083.0	1.9	2.2	-173.33	8.6	-89.9	113.5	109.8	3.76	30.160		
1,200.0	1,199.4	1,181.5	1,178.1	2.1	2.4	-173.41	9.9	-103.8	132.8	128.7	4.11	32.338		
1,300.0	1,299.3	1,276.9	1,272.2	2.3	2.7	-173.45	11.4	-119.1	153.7	149.2	4.45	34.561		
1,400.0	1,399.2	1,371.7	1,365.4	2.5	3.1	-173.47	12.9	-135.9	176.1	171.4	4.78	36.816		
1,500.0	1,499.0	1,467.7	1,459.7	2.7	3.4	-173.48	14.6	-154.1	199.9	194.8	5.13	39.010		
1,600.0	1,598.9	1,564.8	1,555.0	2.9	3.7	-173.48	16.4	-172.7	223.8	218.4	5.47	40.938		
1,700.0	1,698.8	1,661.9	1,650.3	3.1	4.1	-173.48	18.1	-191.3	247.7	241.9	5.81	42.640		
1,800.0	1,798.7	1,759.0	1,745.5	3.3	4.5	-173.48	19.8	-209.8	271.6	265.5	6.15	44.152		
1,900.0	1,898.6	1,856.1	1,840.8	3.5	4.8	-173.48	21.6	-228.4	295.5	289.0	6.49	45.505		
2,000.0	1,998.5	1,953.2	1,936.1	3.7	5.2	-173.49	23.3	-247.0	319.4	312.6	6.84	46.722		
2,100.0	2,098.3	2,050.3	2,031.4	3.9	5.5	-173.49	25.0	-265.5	343.3	336.2	7.18	47.824		
2,200.0	2,198.2	2,147.4	2,126.7	4.1	5.9	-173.49	26.8	-284.1	367.2	359.7	7.52	48.826		
2,300.0	2,298.1	2,244.5	2,222.0	4.2	6.3	-173.49	28.5	-302.7	391.1	383.3	7.86	49.740		
2,400.0	2,398.0	2,341.6	2,317.3	4.4	6.6	-173.49	30.2	-321.2	415.0	406.8	8.21	50.579		
2,500.0	2,497.9	2,438.7	2,412.6	4.6	7.0	-173.49	32.0	-339.8	438.9	430.4	8.55	51.350		
2,600.0	2,597.7	2,535.8	2,507.9	4.8	7.4	-173.49	33.7	-358.4	462.8	454.0	8.89	52.062		
2,700.0	2,697.6	2,632.9	2,603.2	5.0	7.7	-173.49	35.4	-376.9	486.7	477.5	9.23	52.721		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3C-32H-K268 - 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	0.0	0.0	0.0	0.0	-90.00	0.0	-30.8	30.8					
100.0	100.0	99.0	99.0	0.2	0.2	-90.00	0.0	-30.8	30.8	30.5	101.847			
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.1	47.273			
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-30.8	30.8	29.8	30.773			
400.0	400.0	399.0	399.0	0.7	0.7	-90.00	0.0	-30.8	30.8	29.4	22.811 CC, ES			
500.0	500.0	498.5	498.5	0.8	0.8	-90.39	-0.2	-31.6	31.6	29.9	18.612			
600.0	600.0	597.9	597.8	1.0	1.0	-178.72	-0.9	-34.1	35.0	32.9	17.105 SF			
700.0	700.0	697.0	696.8	1.2	1.2	179.86	-1.9	-38.2	41.8	39.4	17.479			
800.0	799.9	795.6	795.3	1.4	1.4	178.53	-3.5	-44.0	52.0	49.3	19.008			
900.0	899.7	893.9	893.3	1.6	1.6	177.40	-5.4	-51.4	64.5	61.4	20.916			
1,000.0	999.6	991.7	990.6	1.8	1.8	176.46	-7.7	-60.3	78.7	75.2	22.937			
1,100.0	1,099.5	1,088.9	1,087.3	1.9	2.1	175.67	-10.5	-70.8	94.5	90.7	25.041			
1,200.0	1,199.4	1,185.7	1,183.2	2.1	2.3	175.00	-13.6	-82.8	112.0	107.9	27.205			
1,300.0	1,299.3	1,281.8	1,278.3	2.3	2.6	174.44	-17.1	-96.3	131.2	126.7	29.414			
1,400.0	1,399.2	1,377.2	1,372.5	2.5	2.9	173.95	-21.0	-111.2	152.0	147.2	31.658			
1,500.0	1,499.0	1,473.6	1,467.4	2.7	3.2	173.54	-25.3	-127.6	174.2	169.0	33.861			
1,600.0	1,598.9	1,571.1	1,563.3	2.9	3.5	173.20	-29.7	-144.2	196.5	191.0	35.806			
1,700.0	1,698.8	1,668.6	1,659.3	3.1	3.8	172.94	-34.0	-160.9	218.8	213.0	37.522			
1,800.0	1,798.7	1,766.0	1,755.2	3.3	4.2	172.73	-38.4	-177.6	241.1	234.9	39.048			
1,900.0	1,898.6	1,863.5	1,851.1	3.5	4.5	172.55	-42.7	-194.2	263.5	256.9	40.414			
2,000.0	1,998.5	1,961.0	1,947.1	3.7	4.8	172.40	-47.1	-210.9	285.8	278.9	41.644			
2,100.0	2,098.3	2,058.5	2,043.0	3.9	5.2	172.27	-51.4	-227.6	308.1	300.9	42.756			
2,200.0	2,198.2	2,155.9	2,139.0	4.1	5.5	172.16	-55.8	-244.2	330.5	322.9	43.768			
2,300.0	2,298.1	2,253.4	2,234.9	4.2	5.9	172.06	-60.2	-260.9	352.8	344.9	44.691			
2,400.0	2,398.0	2,350.9	2,330.8	4.4	6.2	171.98	-64.5	-277.6	375.1	366.9	45.538			
2,500.0	2,497.9	2,448.3	2,426.8	4.6	6.5	171.90	-68.9	-294.2	397.5	388.9	46.318			
2,600.0	2,597.7	2,545.8	2,522.7	4.8	6.9	171.83	-73.2	-310.9	419.8	410.9	47.037			
2,700.0	2,697.6	2,643.3	2,618.6	5.0	7.2	171.77	-77.6	-327.6	442.2	432.9	47.703			
2,800.0	2,797.5	2,740.8	2,714.6	5.2	7.6	171.72	-81.9	-344.2	464.5	454.9	48.321			
2,900.0	2,897.4	2,838.2	2,810.5	5.4	7.9	171.67	-86.3	-360.9	486.8	476.9	48.897			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3D-32H-K268 - 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	0.0	0.0	0.0	0.0	-81.77	3.6	-25.2	25.5					
100.0	100.0	99.0	99.0	0.2	0.2	-81.77	3.6	-25.2	25.4	25.1	0.30	84.197		
200.0	200.0	199.0	199.0	0.3	0.3	-81.77	3.6	-25.2	25.4	24.8	0.65	39.081		
300.0	300.0	299.0	299.0	0.5	0.5	-81.77	3.6	-25.2	25.4	24.4	1.00	25.440		
400.0	400.0	399.0	399.0	0.7	0.7	-81.77	3.6	-25.2	25.4	24.1	1.35	18.858		
500.0	500.0	499.0	499.0	0.8	0.8	-81.77	3.6	-25.2	25.4	23.7	1.70	14.982 CC, ES		
600.0	600.0	598.5	598.5	1.0	1.0	-169.31	3.8	-26.0	27.1	25.1	2.05	13.268 SF		
700.0	700.0	697.9	697.8	1.2	1.2	-170.05	4.2	-28.6	32.3	29.9	2.39	13.498		
800.0	799.9	796.9	796.8	1.4	1.4	-170.85	4.9	-32.8	40.9	38.1	2.74	14.918		
900.0	899.7	895.5	895.2	1.6	1.6	-171.36	5.9	-38.6	51.7	48.6	3.09	16.743		
1,000.0	999.6	993.7	993.1	1.8	1.8	-171.58	7.1	-46.2	64.2	60.8	3.43	18.700		
1,100.0	1,099.5	1,091.5	1,090.5	1.9	2.0	-171.65	8.6	-55.3	78.4	74.6	3.78	20.751		
1,200.0	1,199.4	1,189.7	1,188.0	2.1	2.2	-171.64	10.3	-65.8	94.0	89.9	4.12	22.801		
1,300.0	1,299.3	1,288.4	1,286.2	2.3	2.4	-171.63	12.1	-76.6	109.8	105.3	4.47	24.565		
1,400.0	1,399.2	1,387.1	1,384.3	2.5	2.7	-171.62	13.9	-87.4	125.6	120.8	4.82	26.076		
1,500.0	1,499.0	1,485.9	1,482.4	2.7	2.9	-171.62	15.6	-98.2	141.4	136.2	5.16	27.384		
1,600.0	1,598.9	1,584.6	1,580.6	2.9	3.2	-171.61	17.4	-108.9	157.2	151.7	5.51	28.527		
1,700.0	1,698.8	1,683.4	1,678.7	3.1	3.4	-171.61	19.2	-119.7	173.0	167.1	5.86	29.535		
1,800.0	1,798.7	1,782.1	1,776.9	3.3	3.7	-171.60	20.9	-130.5	188.8	182.5	6.20	30.431		
1,900.0	1,898.6	1,880.9	1,875.0	3.5	3.9	-171.60	22.7	-141.3	204.5	198.0	6.55	31.231		
2,000.0	1,998.5	1,979.6	1,973.1	3.7	4.2	-171.59	24.5	-152.0	220.3	213.4	6.90	31.951		
2,100.0	2,098.3	2,078.4	2,071.3	3.9	4.4	-171.59	26.3	-162.8	236.1	228.9	7.24	32.602		
2,200.0	2,198.2	2,177.1	2,169.4	4.1	4.7	-171.59	28.0	-173.6	251.9	244.3	7.59	33.194		
2,300.0	2,298.1	2,275.9	2,267.6	4.2	4.9	-171.59	29.8	-184.4	267.7	259.8	7.94	33.734		
2,400.0	2,398.0	2,374.6	2,365.7	4.4	5.2	-171.59	31.6	-195.2	283.5	275.2	8.28	34.229		
2,500.0	2,497.9	2,473.3	2,463.8	4.6	5.4	-171.59	33.3	-205.9	299.3	290.7	8.63	34.684		
2,600.0	2,597.7	2,572.1	2,562.0	4.8	5.7	-171.58	35.1	-216.7	315.1	306.1	8.98	35.104		
2,700.0	2,697.6	2,670.8	2,660.1	5.0	5.9	-171.58	36.9	-227.5	330.9	321.5	9.32	35.492		
2,800.0	2,797.5	2,769.6	2,758.3	5.2	6.2	-171.58	38.7	-238.3	346.7	337.0	9.67	35.853		
2,900.0	2,897.4	2,868.3	2,856.4	5.4	6.4	-171.58	40.4	-249.0	362.4	352.4	10.02	36.189		
3,000.0	2,997.3	2,967.1	2,954.5	5.6	6.7	-171.58	42.2	-259.8	378.2	367.9	10.36	36.502		
3,100.0	3,097.2	3,065.8	3,052.7	5.8	6.9	-171.58	44.0	-270.6	394.0	383.3	10.71	36.795		
3,200.0	3,197.0	3,164.6	3,150.8	6.0	7.2	-171.58	45.7	-281.4	409.8	398.8	11.06	37.070		
3,300.0	3,296.9	3,263.3	3,249.0	6.2	7.5	-171.58	47.5	-292.1	425.6	414.2	11.40	37.328		
3,400.0	3,396.8	3,362.1	3,347.1	6.4	7.7	-171.58	49.3	-302.9	441.4	429.6	11.75	37.571		
3,500.0	3,496.7	3,460.8	3,445.2	6.6	8.0	-171.58	51.1	-313.7	457.2	445.1	12.09	37.800		
3,600.0	3,596.6	3,559.5	3,543.4	6.8	8.2	-171.58	52.8	-324.5	473.0	460.5	12.44	38.016		
3,700.0	3,696.5	3,658.3	3,641.5	7.0	8.5	-171.57	54.6	-335.3	488.8	476.0	12.79	38.220		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3E-32H-K268 - 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	-90.02	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-90.02	0.0	-11.2	11.2	10.9	0.30	36.850		
200.0	200.0	200.0	200.0	0.3	0.3	-90.02	0.0	-11.2	11.2	10.5	0.65	17.144		
300.0	300.0	300.0	300.0	0.5	0.5	-90.02	0.0	-11.2	11.2	10.2	1.00	11.171		
400.0	400.0	400.0	400.0	0.7	0.7	-90.02	0.0	-11.2	11.2	9.8	1.35	8.284		
500.0	500.0	500.0	500.0	0.8	0.8	-90.02	0.0	-11.2	11.2	9.5	1.70	6.583 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	-177.45	0.0	-11.2	12.1	10.0	2.05	5.888 SF		
700.0	700.0	699.7	699.7	1.2	1.2	-176.61	0.3	-12.0	15.5	13.1	2.40	6.458		
800.0	799.9	799.2	799.1	1.4	1.4	-174.71	1.3	-14.4	22.2	19.5	2.74	8.094		
900.0	899.7	898.5	898.3	1.6	1.6	-172.78	3.0	-18.3	31.1	28.0	3.09	10.043		
1,000.0	999.6	998.0	997.8	1.8	1.7	-171.50	4.9	-22.7	40.4	36.9	3.44	11.731		
1,100.0	1,099.5	1,097.6	1,097.2	1.9	1.9	-170.70	6.7	-27.0	49.7	45.9	3.79	13.111		
1,200.0	1,199.4	1,197.2	1,196.7	2.1	2.1	-170.15	8.6	-31.4	59.0	54.9	4.14	14.260		
1,300.0	1,299.3	1,296.7	1,296.1	2.3	2.3	-169.75	10.4	-35.7	68.4	63.9	4.49	15.230		
1,400.0	1,399.2	1,396.3	1,395.6	2.5	2.5	-169.45	12.2	-40.1	77.7	72.9	4.84	16.061		
1,500.0	1,499.0	1,495.9	1,495.0	2.7	2.7	-169.21	14.1	-44.4	87.1	81.9	5.19	16.779		
1,600.0	1,598.9	1,595.4	1,594.5	2.9	2.9	-169.02	15.9	-48.8	96.4	90.9	5.54	17.408		
1,700.0	1,698.8	1,695.0	1,693.9	3.1	3.1	-168.86	17.8	-53.2	105.8	99.9	5.89	17.961		
1,800.0	1,798.7	1,794.5	1,793.4	3.3	3.2	-168.73	19.6	-57.5	115.1	108.9	6.24	18.453		
1,900.0	1,898.6	1,894.1	1,892.8	3.5	3.4	-168.62	21.5	-61.9	124.5	117.9	6.59	18.892		
2,000.0	1,998.5	1,993.7	1,992.3	3.7	3.6	-168.52	23.3	-66.2	133.8	126.9	6.94	19.287		
2,100.0	2,098.3	2,093.2	2,091.7	3.9	3.8	-168.44	25.2	-70.6	143.1	135.9	7.29	19.645		
2,200.0	2,198.2	2,192.8	2,191.2	4.1	4.0	-168.37	27.0	-74.9	152.5	144.9	7.64	19.969		
2,300.0	2,298.1	2,292.3	2,290.6	4.2	4.2	-168.30	28.9	-79.3	161.8	153.9	7.99	20.265		
2,400.0	2,398.0	2,391.9	2,390.1	4.4	4.4	-168.24	30.7	-83.7	171.2	162.9	8.34	20.536		
2,500.0	2,497.9	2,491.5	2,489.5	4.6	4.6	-168.19	32.6	-88.0	180.5	171.9	8.69	20.786		
2,600.0	2,597.7	2,591.0	2,589.0	4.8	4.8	-168.14	34.4	-92.4	189.9	180.9	9.04	21.016		
2,700.0	2,697.6	2,690.6	2,688.4	5.0	5.0	-168.10	36.3	-96.7	199.2	189.9	9.39	21.229		
2,800.0	2,797.5	2,790.2	2,787.9	5.2	5.2	-168.06	38.1	-101.1	208.6	198.9	9.74	21.426		
2,900.0	2,897.4	2,889.7	2,887.3	5.4	5.3	-168.03	40.0	-105.5	217.9	207.9	10.08	21.610		
3,000.0	2,997.3	2,989.3	2,986.8	5.6	5.5	-167.99	41.8	-109.8	227.3	216.9	10.43	21.782		
3,100.0	3,097.2	3,088.8	3,086.2	5.8	5.7	-167.96	43.7	-114.2	236.6	225.9	10.78	21.942		
3,200.0	3,197.0	3,188.4	3,185.7	6.0	5.9	-167.94	45.5	-118.5	246.0	234.9	11.13	22.092		
3,300.0	3,296.9	3,288.0	3,285.1	6.2	6.1	-167.91	47.4	-122.9	255.3	243.8	11.48	22.234		
3,400.0	3,396.8	3,387.5	3,384.6	6.4	6.3	-167.89	49.2	-127.2	264.7	252.8	11.83	22.366		
3,500.0	3,496.7	3,487.1	3,484.0	6.6	6.5	-167.87	51.1	-131.6	274.0	261.8	12.18	22.492		
3,600.0	3,596.6	3,586.7	3,583.5	6.8	6.7	-167.84	52.9	-136.0	283.4	270.8	12.53	22.610		
3,700.0	3,696.5	3,686.2	3,682.9	7.0	6.9	-167.83	54.8	-140.3	292.7	279.8	12.88	22.722		
3,800.0	3,796.3	3,785.8	3,782.4	7.1	7.1	-167.81	56.6	-144.7	302.1	288.8	13.23	22.828		
3,900.0	3,896.2	3,885.3	3,881.8	7.3	7.3	-167.79	58.5	-149.0	311.4	297.8	13.58	22.928		
4,000.0	3,996.1	3,984.9	3,981.3	7.5	7.5	-167.77	60.3	-153.4	320.8	306.8	13.93	23.023		
4,100.0	4,096.0	4,084.5	4,080.7	7.7	7.6	-167.76	62.1	-157.7	330.1	315.8	14.28	23.114		
4,200.0	4,195.9	4,184.0	4,180.2	7.9	7.8	-167.74	64.0	-162.1	339.5	324.8	14.63	23.200		
4,300.0	4,295.8	4,283.6	4,279.6	8.1	8.0	-167.73	65.8	-166.5	348.8	333.8	14.98	23.283		
4,400.0	4,395.6	4,383.1	4,379.1	8.3	8.2	-167.72	67.7	-170.8	358.2	342.8	15.33	23.361		
4,500.0	4,495.5	4,482.7	4,478.5	8.5	8.4	-167.71	69.5	-175.2	367.5	351.8	15.68	23.436		
4,600.0	4,595.4	4,582.3	4,578.0	8.7	8.6	-167.69	71.4	-179.5	376.9	360.8	16.03	23.508		
4,700.0	4,695.3	4,681.8	4,677.4	8.9	8.8	-167.68	73.2	-183.9	386.2	369.8	16.38	23.577		
4,800.0	4,795.2	4,781.4	4,776.9	9.1	9.0	-167.67	75.1	-188.3	395.6	378.8	16.73	23.643		
4,900.0	4,895.0	4,881.0	4,876.3	9.3	9.2	-167.66	76.9	-192.6	404.9	387.8	17.08	23.706		
5,000.0	4,994.9	4,980.5	4,975.8	9.5	9.4	-167.65	78.8	-197.0	414.3	396.8	17.43	23.766		
5,100.0	5,094.8	5,080.1	5,075.2	9.7	9.6	-167.64	80.6	-201.3	423.6	405.8	17.78	23.825		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3E-32H-K268 - 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					
5,200.0	5,194.7	5,179.6	5,174.7	9.9	9.8	-167.64	82.5	-205.7	433.0	414.8	18.13	23.881					
5,300.0	5,294.6	5,279.2	5,274.1	10.1	10.0	-167.63	84.3	-210.0	442.3	423.8	18.48	23.934					
5,400.0	5,394.5	5,378.8	5,373.6	10.2	10.1	-167.62	86.2	-214.4	451.7	432.8	18.83	23.986					
5,500.0	5,494.3	5,478.3	5,473.0	10.4	10.3	-167.61	88.0	-218.8	461.0	441.8	19.18	24.036					
5,600.0	5,594.2	5,577.9	5,572.5	10.6	10.5	-167.60	89.9	-223.1	470.4	450.8	19.53	24.084					
5,700.0	5,694.1	5,677.5	5,671.9	10.8	10.7	-167.60	91.7	-227.5	479.7	459.8	19.88	24.131					
5,800.0	5,794.0	5,777.0	5,771.4	11.0	10.9	-167.59	93.6	-231.8	489.1	468.8	20.23	24.176					
5,900.0	5,893.9	5,876.6	5,870.8	11.2	11.1	-167.58	95.4	-236.2	498.4	477.8	20.58	24.219					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3F-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-56.97	3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-56.97	3.6	-5.6	6.7	6.4	0.30	21.978		
200.0	200.0	200.0	200.0	0.3	0.3	-56.97	3.6	-5.6	6.7	6.0	0.65	10.225		
300.0	300.0	300.0	300.0	0.5	0.5	-56.97	3.6	-5.6	6.7	5.7	1.00	6.662		
400.0	400.0	400.0	400.0	0.7	0.7	-56.97	3.6	-5.6	6.7	5.3	1.35	4.941		
500.0	500.0	500.0	500.0	0.8	0.8	-56.97	3.6	-5.6	6.7	5.0	1.70	3.926 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	-148.15	3.6	-5.6	7.4	5.4	2.05	3.611		
700.0	700.0	700.0	700.0	1.2	1.2	-156.31	3.6	-5.6	9.7	7.3	2.40	4.055		
800.0	799.9	799.9	799.9	1.4	1.4	-163.53	3.6	-5.6	13.8	11.0	2.75	5.020		
900.0	899.7	899.7	899.7	1.6	1.5	-167.79	3.6	-5.6	18.5	15.4	3.10	5.973		
1,000.0	999.6	999.6	999.6	1.8	1.7	-170.32	3.6	-5.6	23.2	19.8	3.44	6.750		
1,100.0	1,099.5	1,099.5	1,099.5	1.9	1.9	-171.99	3.6	-5.6	28.0	24.2	3.79	7.393		
1,200.0	1,199.4	1,199.4	1,199.4	2.1	2.1	-173.16	3.6	-5.6	32.8	28.7	4.14	7.931		
1,300.0	1,299.3	1,299.3	1,299.3	2.3	2.2	-174.04	3.6	-5.6	37.7	33.2	4.49	8.388		
1,400.0	1,399.2	1,399.2	1,399.2	2.5	2.4	-174.72	3.6	-5.6	42.5	37.6	4.84	8.780		
1,500.0	1,499.0	1,499.0	1,499.0	2.7	2.6	-175.26	3.6	-5.6	47.3	42.1	5.19	9.121		
1,600.0	1,598.9	1,598.9	1,598.9	2.9	2.8	-175.70	3.6	-5.6	52.1	46.6	5.54	9.419		
1,700.0	1,698.8	1,698.8	1,698.8	3.1	2.9	-176.07	3.6	-5.6	57.0	51.1	5.89	9.682		
1,800.0	1,798.7	1,798.7	1,798.7	3.3	3.1	-176.37	3.6	-5.6	61.8	55.6	6.23	9.917		
1,900.0	1,898.6	1,898.6	1,898.6	3.5	3.3	-176.64	3.6	-5.6	66.7	60.1	6.58	10.126		
2,000.0	1,998.5	1,998.5	1,998.5	3.7	3.5	-176.87	3.6	-5.6	71.5	64.6	6.93	10.315		
2,100.0	2,098.3	2,098.3	2,098.3	3.9	3.6	-177.06	3.6	-5.6	76.3	69.1	7.28	10.486		
2,200.0	2,198.2	2,198.2	2,198.2	4.1	3.8	-177.24	3.6	-5.6	81.2	73.5	7.63	10.641		
2,300.0	2,298.1	2,298.1	2,298.1	4.2	4.0	-177.40	3.6	-5.6	86.0	78.0	7.98	10.783		
2,400.0	2,398.0	2,398.0	2,398.0	4.4	4.2	-177.53	3.6	-5.6	90.9	82.5	8.33	10.913		
2,500.0	2,497.9	2,497.9	2,497.9	4.6	4.3	-177.66	3.6	-5.6	95.7	87.0	8.68	11.032		
2,600.0	2,597.7	2,597.7	2,597.7	4.8	4.5	-177.77	3.6	-5.6	100.5	91.5	9.02	11.142		
2,700.0	2,697.6	2,697.6	2,697.6	5.0	4.7	-177.87	3.6	-5.6	105.4	96.0	9.37	11.245		
2,800.0	2,797.5	2,797.5	2,797.5	5.2	4.9	-177.97	3.6	-5.6	110.2	100.5	9.72	11.340		
2,900.0	2,897.4	2,897.4	2,897.4	5.4	5.0	-178.05	3.6	-5.6	115.1	105.0	10.07	11.428		
3,000.0	2,997.3	2,997.3	2,997.3	5.6	5.2	-178.13	3.6	-5.6	119.9	109.5	10.42	11.510		
3,100.0	3,097.2	3,097.2	3,097.2	5.8	5.4	-178.20	3.6	-5.6	124.8	114.0	10.77	11.587		
3,200.0	3,197.0	3,197.0	3,197.0	6.0	5.6	-178.27	3.6	-5.6	129.6	118.5	11.12	11.660		
3,300.0	3,296.9	3,296.9	3,296.9	6.2	5.7	-178.33	3.6	-5.6	134.5	123.0	11.47	11.728		
3,400.0	3,396.8	3,396.8	3,396.8	6.4	5.9	-178.39	3.6	-5.6	139.3	127.5	11.81	11.792		
3,500.0	3,496.7	3,496.7	3,496.7	6.6	6.1	-178.45	3.6	-5.6	144.2	132.0	12.16	11.852		
3,600.0	3,596.6	3,596.6	3,596.6	6.8	6.3	-178.50	3.6	-5.6	149.0	136.5	12.51	11.909		
3,700.0	3,696.5	3,696.5	3,696.5	7.0	6.4	-178.54	3.6	-5.6	153.8	141.0	12.86	11.963		
3,800.0	3,796.3	3,796.3	3,796.3	7.1	6.6	-178.59	3.6	-5.6	158.7	145.5	13.21	12.013		
3,900.0	3,896.2	3,896.2	3,896.2	7.3	6.8	-178.63	3.6	-5.6	163.5	150.0	13.56	12.062		
4,000.0	3,996.1	3,996.1	3,996.1	7.5	7.0	-178.67	3.6	-5.6	168.4	154.5	13.91	12.108		
4,100.0	4,096.0	4,097.0	4,097.0	7.7	7.1	-178.45	4.4	-5.3	172.9	158.7	14.26	12.130		
4,200.0	4,195.9	4,197.9	4,197.9	7.9	7.3	-177.70	6.9	-4.5	176.9	162.3	14.61	12.110		
4,300.0	4,295.8	4,297.9	4,297.8	8.1	7.5	-176.71	10.2	-3.3	180.6	165.7	14.96	12.074		
4,400.0	4,395.6	4,397.7	4,397.6	8.3	7.7	-175.75	13.6	-2.2	184.4	169.1	15.31	12.041		
4,500.0	4,495.5	4,497.6	4,497.4	8.5	7.8	-174.83	16.9	-1.1	188.2	172.5	15.66	12.013		
4,600.0	4,595.4	4,597.5	4,597.2	8.7	8.0	-173.95	20.2	0.1	192.0	176.0	16.02	11.988		
4,700.0	4,695.3	4,697.4	4,697.0	8.9	8.2	-173.11	23.6	1.2	195.9	179.5	16.37	11.967		
4,800.0	4,795.2	4,797.3	4,796.9	9.1	8.4	-172.29	26.9	2.4	199.8	183.1	16.73	11.948		
4,900.0	4,895.0	4,897.2	4,896.7	9.3	8.5	-171.51	30.3	3.5	203.8	186.7	17.08	11.932		
5,000.0	4,994.9	4,997.0	4,996.5	9.5	8.7	-170.76	33.6	4.7	207.8	190.4	17.44	11.918		
5,100.0	5,094.8	5,096.9	5,096.3	9.7	8.9	-170.04	36.9	5.8	211.9	194.1	17.79	11.906		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3F-32H-K268 - 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		
5,200.0	5,194.7	5,196.8	5,196.2	9.9	9.1	-169.34	40.3	6.9	215.9	197.8	18.15	11.896		
5,300.0	5,294.6	5,296.7	5,296.0	10.1	9.3	-168.67	43.6	8.1	220.0	201.5	18.51	11.888		
5,400.0	5,394.5	5,396.6	5,395.8	10.2	9.4	-168.03	47.0	9.2	224.2	205.3	18.87	11.882		
5,500.0	5,494.3	5,496.5	5,495.6	10.4	9.6	-167.40	50.3	10.4	228.3	209.1	19.23	11.877		
5,600.0	5,594.2	5,596.3	5,595.4	10.6	9.8	-166.80	53.7	11.5	232.5	212.9	19.58	11.873		
5,700.0	5,694.1	5,696.2	5,695.3	10.8	10.0	-166.23	57.0	12.7	236.7	216.8	19.94	11.870		
5,800.0	5,794.0	5,796.1	5,795.1	11.0	10.2	-165.67	60.3	13.8	241.0	220.7	20.30	11.868		
5,900.0	5,893.9	5,896.0	5,894.9	11.2	10.3	-165.13	63.7	14.9	245.2	224.6	20.66	11.867		
6,000.0	5,993.8	5,995.9	5,994.7	11.4	10.5	-164.61	67.0	16.1	249.5	228.5	21.02	11.867		
6,100.0	6,093.6	6,095.8	6,094.5	11.6	10.7	-164.11	70.4	17.2	253.8	232.4	21.39	11.868		
6,200.0	6,193.5	6,195.6	6,194.4	11.8	10.9	-163.62	73.7	18.4	258.1	236.4	21.75	11.869		
6,300.0	6,293.4	6,295.5	6,294.2	12.0	11.1	-163.15	77.0	19.5	262.4	240.3	22.11	11.871		
6,400.0	6,393.3	6,395.4	6,394.0	12.2	11.2	-162.69	80.4	20.7	266.8	244.3	22.47	11.874		
6,500.0	6,493.2	6,495.3	6,493.8	12.4	11.4	-162.25	83.7	21.8	271.2	248.3	22.83	11.877		
6,600.0	6,593.0	6,595.2	6,593.6	12.6	11.6	-161.83	87.1	22.9	275.6	252.4	23.19	11.880		
6,700.0	6,692.9	6,695.1	6,693.5	12.8	11.8	-161.41	90.4	24.1	279.9	256.4	23.56	11.884		
6,800.0	6,792.8	6,794.9	6,793.3	13.0	12.0	-161.01	93.7	25.2	284.4	260.4	23.92	11.888		
6,900.0	6,892.4	6,894.3	6,892.5	13.2	12.1	125.07	97.1	26.4	290.8	266.6	24.23	12.002		
7,000.0	6,989.3	6,990.4	6,988.6	13.3	12.3	119.22	100.3	27.5	303.5	279.0	24.43	12.420		
7,100.0	7,080.6	7,105.1	7,103.1	13.6	12.5	121.75	97.2	28.8	322.9	298.5	24.45	13.208		
7,200.0	7,163.6	7,240.1	7,233.9	13.9	12.7	125.37	65.1	30.6	343.1	318.8	24.21	14.169		
7,300.0	7,235.7	7,390.1	7,366.0	14.3	12.9	128.41	-5.2	32.8	360.6	336.7	23.89	15.096		
7,400.0	7,294.8	7,553.6	7,483.8	14.9	13.4	130.32	-117.7	35.2	372.6	348.8	23.85	15.622		
7,500.0	7,338.9	7,725.3	7,568.1	15.7	14.4	130.73	-266.5	37.5	377.0	352.3	24.62	15.311		
7,600.0	7,366.9	7,896.6	7,604.7	16.6	16.0	129.51	-433.1	39.4	372.8	346.2	26.54	14.043		
7,700.0	7,377.9	8,011.6	7,606.0	17.7	17.2	128.54	-548.1	40.4	366.1	337.4	28.73	12.744		
7,800.0	7,378.0	8,111.6	7,606.0	18.8	18.4	128.62	-648.1	41.2	365.3	334.7	30.63	11.927		
7,900.0	7,378.0	8,211.6	7,606.0	20.1	19.7	128.70	-748.1	42.1	364.6	332.0	32.61	11.181		
8,000.0	7,378.0	8,311.6	7,606.0	21.4	21.1	128.79	-848.1	43.0	364.0	329.3	34.69	10.491		
8,100.0	7,378.0	8,411.5	7,606.0	22.8	22.5	128.88	-948.1	43.9	363.3	326.4	36.85	9.858		
8,200.0	7,378.0	8,511.5	7,606.0	24.2	23.9	128.96	-1,048.1	44.7	362.6	323.5	39.07	9.280		
8,300.0	7,378.0	8,611.5	7,606.0	25.7	25.4	129.05	-1,148.0	45.6	361.9	320.6	41.35	8.753		
8,400.0	7,378.0	8,711.5	7,606.0	27.2	27.0	129.14	-1,248.0	46.5	361.2	317.6	43.67	8.272		
8,500.0	7,378.0	8,811.5	7,606.0	28.7	28.5	129.22	-1,348.0	47.3	360.6	314.5	46.02	7.835		
8,600.0	7,378.0	8,911.5	7,606.0	30.3	30.1	129.31	-1,448.0	48.2	359.9	311.5	48.40	7.435		
8,700.0	7,378.0	9,011.5	7,606.0	31.8	31.7	129.40	-1,548.0	49.1	359.2	308.4	50.81	7.070		
8,800.0	7,378.0	9,111.5	7,606.0	33.4	33.3	129.49	-1,648.0	50.0	358.5	305.3	53.24	6.735		
8,900.0	7,378.0	9,211.5	7,606.0	35.0	34.9	129.58	-1,748.0	50.8	357.9	302.2	55.68	6.427		
9,000.0	7,378.0	9,311.5	7,606.0	36.7	36.5	129.67	-1,848.0	51.7	357.2	299.1	58.13	6.145		
9,100.0	7,378.0	9,411.5	7,606.0	38.3	38.2	129.76	-1,948.0	52.6	356.5	295.9	60.60	5.884		
9,200.0	7,378.0	9,511.5	7,606.0	39.9	39.8	129.85	-2,048.0	53.5	355.9	292.8	63.07	5.642		
9,300.0	7,378.0	9,611.5	7,606.0	41.6	41.5	129.94	-2,148.0	54.3	355.2	289.6	65.55	5.419		
9,400.0	7,378.0	9,711.5	7,606.0	43.3	43.2	130.03	-2,248.0	55.2	354.5	286.5	68.03	5.211		
9,500.0	7,378.0	9,811.5	7,606.0	44.9	44.9	130.12	-2,348.0	56.1	353.8	283.3	70.52	5.018		
9,600.0	7,378.0	9,911.5	7,606.0	46.6	46.5	130.21	-2,448.0	56.9	353.2	280.2	73.00	4.838		
9,700.0	7,378.0	10,011.5	7,606.0	48.3	48.2	130.30	-2,547.9	57.8	352.5	277.0	75.49	4.669		
9,800.0	7,378.0	10,111.5	7,606.0	50.0	49.9	130.39	-2,647.9	58.7	351.8	273.9	77.98	4.512		
9,900.0	7,378.0	10,211.5	7,606.0	51.6	51.6	130.49	-2,747.9	59.6	351.2	270.7	80.47	4.364		
10,000.0	7,378.0	10,311.5	7,606.0	53.3	53.3	130.58	-2,847.9	60.4	350.5	267.6	82.96	4.225		
10,100.0	7,378.0	10,411.5	7,606.0	55.0	55.0	130.67	-2,947.9	61.3	349.9	264.4	85.44	4.095		
10,200.0	7,378.0	10,511.5	7,606.0	56.7	56.7	130.76	-3,047.9	62.2	349.2	261.3	87.93	3.971		
10,300.0	7,378.0	10,611.5	7,606.0	58.4	58.4	130.86	-3,147.9	63.1	348.5	258.1	90.41	3.855		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3F-32H-K268 - 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)				
10,400.0	7,378.0	10,711.5	7,606.0	60.2	60.1	130.95	-3,247.9	63.9	347.9	255.0	92.88	3.745		
10,500.0	7,378.0	10,811.5	7,606.0	61.9	61.9	131.05	-3,347.9	64.8	347.2	251.9	95.35	3.641		
10,600.0	7,378.0	10,911.5	7,606.0	63.6	63.6	131.14	-3,447.9	65.7	346.6	248.7	97.82	3.543		
10,700.0	7,378.0	11,011.4	7,606.0	65.3	65.3	131.24	-3,547.9	66.5	345.9	245.6	100.28	3.449		
10,800.0	7,378.0	11,111.4	7,606.0	67.0	67.0	131.33	-3,647.9	67.4	345.2	242.5	102.74	3.360		
10,900.0	7,378.0	11,211.4	7,606.0	68.7	68.7	131.43	-3,747.9	68.3	344.6	239.4	105.19	3.276		
11,000.0	7,378.0	11,311.4	7,606.0	70.4	70.5	131.52	-3,847.8	69.2	343.9	236.3	107.64	3.195		
11,100.0	7,378.0	11,411.4	7,606.0	72.2	72.2	131.62	-3,947.8	70.0	343.3	233.2	110.08	3.118		
11,200.0	7,378.0	11,511.4	7,606.0	73.9	73.9	131.72	-4,047.8	70.9	342.6	230.1	112.51	3.045		
11,300.0	7,378.0	11,611.4	7,606.0	75.6	75.6	131.81	-4,147.8	71.8	342.0	227.0	114.94	2.975		
11,400.0	7,378.0	11,711.4	7,606.0	77.3	77.4	131.91	-4,247.8	72.7	341.3	224.0	117.36	2.908		
11,500.0	7,378.0	11,811.4	7,606.0	79.1	79.1	132.01	-4,347.8	73.5	340.7	220.9	119.78	2.844		
11,600.0	7,378.0	11,911.4	7,606.0	80.8	80.8	132.11	-4,447.8	74.4	340.0	217.9	122.18	2.783		
11,700.0	7,378.0	12,011.4	7,606.0	82.5	82.6	132.21	-4,547.8	75.3	339.4	214.8	124.58	2.724		
11,800.0	7,378.0	12,111.4	7,606.0	84.3	84.3	132.31	-4,647.8	76.1	338.7	211.8	126.98	2.668		
11,900.0	7,378.0	12,211.4	7,606.0	86.0	86.0	132.41	-4,747.8	77.0	338.1	208.7	129.36	2.614		
12,000.0	7,378.0	12,311.4	7,606.0	87.7	87.8	132.51	-4,847.8	77.9	337.5	205.7	131.74	2.562		
12,100.0	7,378.0	12,411.4	7,606.0	89.5	89.5	132.61	-4,947.8	78.8	336.8	202.7	134.11	2.511		
12,200.0	7,378.0	12,511.4	7,606.0	91.2	91.2	132.71	-5,047.8	79.6	336.2	199.7	136.47	2.463		
12,300.0	7,378.0	12,611.4	7,606.0	92.9	93.0	132.81	-5,147.7	80.5	335.5	196.7	138.82	2.417		
12,360.5	7,378.0	12,671.9	7,606.0	94.0	94.0	132.84	-5,208.3	81.0	335.3	195.0	140.34	2.389		
12,400.0	7,378.0	12,711.4	7,606.0	94.7	94.7	132.83	-5,247.7	81.4	335.4	194.0	141.38	2.372		
12,500.0	7,378.0	12,811.4	7,606.0	96.4	96.4	132.66	-5,347.7	82.3	336.5	192.2	144.31	2.332		
12,600.0	7,378.0	12,911.3	7,606.0	98.1	98.2	132.31	-5,447.7	83.1	338.9	191.3	147.63	2.296		
12,700.0	7,378.0	13,011.2	7,606.0	99.9	99.9	131.80	-5,547.6	84.0	342.2	190.9	151.31	2.262		
12,800.0	7,378.0	13,111.1	7,606.0	101.6	101.7	131.30	-5,647.5	84.9	345.7	190.6	155.03	2.230		
12,900.0	7,378.0	13,211.0	7,606.0	103.4	103.4	130.81	-5,747.3	85.7	349.1	190.3	158.75	2.199		
13,000.0	7,378.0	13,310.9	7,606.0	105.1	105.1	130.32	-5,847.2	86.6	352.6	190.1	162.49	2.170		
13,100.0	7,378.0	13,410.8	7,606.0	106.8	106.9	129.85	-5,947.1	87.5	356.1	189.8	166.23	2.142		
13,200.0	7,378.0	13,510.7	7,606.0	108.6	108.6	129.38	-6,047.0	88.4	359.6	189.6	169.98	2.115		
13,300.0	7,378.0	13,585.5	7,606.0	110.3	109.9	129.04	-6,121.8	89.0	364.0	190.8	173.13	2.102 SF		
13,400.0	7,378.0	13,585.5	7,606.0	112.1	109.9	129.04	-6,121.8	89.0	387.4	212.9	174.49	2.220		
13,500.0	7,378.0	13,585.5	7,606.0	113.8	109.9	129.04	-6,121.8	89.0	433.2	257.4	175.85	2.464		
13,600.0	7,378.0	13,585.5	7,606.0	115.6	109.9	129.04	-6,121.8	89.0	495.2	318.0	177.21	2.795		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3H-32H-K268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	56.93	3.6	5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	56.93	3.6	5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	56.93	3.6	5.6	6.7	6.0	0.65	10.229		
300.0	300.0	300.0	300.0	0.5	0.5	56.93	3.6	5.6	6.7	5.7	1.00	6.665		
333.5	333.5	333.5	333.5	0.6	0.6	56.93	3.6	5.6	6.7	5.6	1.12	5.968 CC		
400.0	400.0	399.9	399.9	0.7	0.7	57.67	3.7	5.8	6.9	5.5	1.35	5.091 ES		
500.0	500.0	499.8	499.8	0.8	0.9	62.25	4.0	7.5	8.5	6.8	1.70	5.002		
600.0	600.0	599.6	599.5	1.0	1.0	-21.17	4.5	11.0	11.0	9.0	2.05	5.393		
700.0	700.0	699.4	699.1	1.2	1.2	-19.60	5.4	16.1	13.7	11.3	2.40	5.700		
800.0	799.9	799.1	798.6	1.4	1.4	-19.16	6.5	23.0	16.4	13.6	2.75	5.963		
900.0	899.7	898.7	897.8	1.6	1.6	-18.29	7.9	31.5	20.3	17.2	3.10	6.551		
1,000.0	999.6	998.3	996.9	1.8	1.9	-16.98	9.6	41.7	25.9	22.4	3.45	7.496		
1,100.0	1,099.5	1,098.1	1,096.1	1.9	2.1	-16.01	11.3	52.3	31.9	28.1	3.80	8.384		
1,200.0	1,199.4	1,197.9	1,195.4	2.1	2.3	-15.34	13.1	62.9	37.9	33.7	4.15	9.123		
1,300.0	1,299.3	1,297.7	1,294.6	2.3	2.6	-14.85	14.8	73.6	43.9	39.4	4.50	9.748		
1,400.0	1,399.2	1,397.5	1,393.8	2.5	2.8	-14.49	16.5	84.2	49.9	45.0	4.85	10.283		
1,500.0	1,499.0	1,497.4	1,493.1	2.7	3.1	-14.20	18.3	94.9	55.9	50.7	5.20	10.746		
1,600.0	1,598.9	1,597.2	1,592.3	2.9	3.3	-13.97	20.0	105.5	61.9	56.4	5.55	11.151		
1,700.0	1,698.8	1,697.0	1,691.5	3.1	3.6	-13.77	21.8	116.1	68.0	62.0	5.90	11.509		
1,800.0	1,798.7	1,796.8	1,790.8	3.3	3.8	-13.61	23.5	126.8	74.0	67.7	6.26	11.826		
1,900.0	1,898.6	1,896.6	1,890.0	3.5	4.1	-13.48	25.3	137.4	80.0	73.4	6.61	12.109		
2,000.0	1,998.5	1,996.4	1,989.2	3.7	4.3	-13.36	27.0	148.0	86.0	79.1	6.96	12.364		
2,100.0	2,098.3	2,096.3	2,088.5	3.9	4.6	-13.26	28.8	158.7	92.0	84.7	7.31	12.595		
2,200.0	2,198.2	2,196.1	2,187.7	4.1	4.8	-13.17	30.5	169.3	98.1	90.4	7.66	12.805		
2,300.0	2,298.1	2,295.9	2,286.9	4.2	5.1	-13.09	32.3	179.9	104.1	96.1	8.01	12.996		
2,400.0	2,398.0	2,395.7	2,386.2	4.4	5.4	-13.02	34.0	190.6	110.1	101.7	8.36	13.171		
2,500.0	2,497.9	2,495.5	2,485.4	4.6	5.6	-12.96	35.7	201.2	116.1	107.4	8.71	13.332		
2,600.0	2,597.7	2,595.4	2,584.6	4.8	5.9	-12.90	37.5	211.8	122.1	113.1	9.06	13.481		
2,700.0	2,697.6	2,695.2	2,683.9	5.0	6.1	-12.85	39.2	222.5	128.2	118.8	9.41	13.619		
2,800.0	2,797.5	2,795.0	2,783.1	5.2	6.4	-12.80	41.0	233.1	134.2	124.4	9.76	13.747		
2,900.0	2,897.4	2,894.8	2,882.3	5.4	6.6	-12.76	42.7	243.7	140.2	130.1	10.11	13.865		
3,000.0	2,997.3	2,994.6	2,981.6	5.6	6.9	-12.72	44.5	254.4	146.2	135.8	10.46	13.976		
3,100.0	3,097.2	3,094.4	3,080.8	5.8	7.1	-12.68	46.2	265.0	152.2	141.4	10.81	14.080		
3,200.0	3,197.0	3,194.3	3,180.1	6.0	7.4	-12.65	48.0	275.7	158.3	147.1	11.16	14.177		
3,300.0	3,296.9	3,294.1	3,279.3	6.2	7.7	-12.62	49.7	286.3	164.3	152.8	11.51	14.269		
3,400.0	3,396.8	3,393.9	3,378.5	6.4	7.9	-12.59	51.5	296.9	170.3	158.4	11.86	14.355		
3,500.0	3,496.7	3,493.7	3,477.8	6.6	8.2	-12.56	53.2	307.6	176.3	164.1	12.22	14.436		
3,600.0	3,596.6	3,593.5	3,577.0	6.8	8.4	-12.54	54.9	318.2	182.4	169.8	12.57	14.512		
3,700.0	3,696.5	3,693.4	3,676.2	7.0	8.7	-12.52	56.7	328.8	188.4	175.5	12.92	14.585		
3,800.0	3,796.3	3,793.2	3,775.5	7.1	8.9	-12.49	58.4	339.5	194.4	181.1	13.27	14.653		
3,900.0	3,896.2	3,893.0	3,874.7	7.3	9.2	-12.47	60.2	350.1	200.4	186.8	13.62	14.718		
4,000.0	3,996.1	3,992.8	3,973.9	7.5	9.4	-12.45	61.9	360.7	206.4	192.5	13.97	14.780		
4,100.0	4,096.0	4,092.6	4,073.2	7.7	9.7	-12.44	63.7	371.4	212.5	198.1	14.32	14.839		
4,200.0	4,195.9	4,192.4	4,172.4	7.9	10.0	-12.42	65.4	382.0	218.5	203.8	14.67	14.895		
4,300.0	4,295.8	4,292.3	4,271.6	8.1	10.2	-12.40	67.2	392.6	224.5	209.5	15.02	14.948		
4,400.0	4,395.6	4,392.1	4,370.9	8.3	10.5	-12.39	68.9	403.3	230.5	215.2	15.37	14.999		
4,500.0	4,495.5	4,491.9	4,470.1	8.5	10.7	-12.37	70.6	413.9	236.6	220.8	15.72	15.047		
4,600.0	4,595.4	4,591.7	4,569.3	8.7	11.0	-12.36	72.4	424.5	242.6	226.5	16.07	15.094		
4,700.0	4,695.3	4,691.5	4,668.6	8.9	11.2	-12.34	74.1	435.2	248.6	232.2	16.42	15.138		
4,800.0	4,795.2	4,791.4	4,767.8	9.1	11.5	-12.33	75.9	445.8	254.6	237.9	16.77	15.181		
4,900.0	4,895.0	4,891.2	4,867.0	9.3	11.8	-12.32	77.6	456.5	260.6	243.5	17.12	15.222		
5,000.0	4,994.9	4,991.0	4,966.3	9.5	12.0	-12.31	79.4	467.1	266.7	249.2	17.47	15.261		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3H-32H-K268 - 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)				
5,100.0	5,094.8	5,090.8	5,065.5	9.7	12.3	-12.30	81.1	477.7	272.7	254.9	17.82	15.299		
5,200.0	5,194.7	5,190.6	5,164.8	9.9	12.5	-12.29	82.9	488.4	278.7	260.5	18.17	15.335		
5,300.0	5,294.6	5,290.5	5,264.0	10.1	12.8	-12.28	84.6	499.0	284.7	266.2	18.53	15.370		
5,400.0	5,394.5	5,390.3	5,363.2	10.2	13.0	-12.27	86.4	509.6	290.8	271.9	18.88	15.404		
5,500.0	5,494.3	5,490.1	5,462.5	10.4	13.3	-12.26	88.1	520.3	296.8	277.6	19.23	15.436		
5,600.0	5,594.2	5,589.9	5,561.7	10.6	13.6	-12.25	89.8	530.9	302.8	283.2	19.58	15.467		
5,700.0	5,694.1	5,689.7	5,660.9	10.8	13.8	-12.24	91.6	541.5	308.8	288.9	19.93	15.497		
5,800.0	5,794.0	5,789.5	5,760.2	11.0	14.1	-12.23	93.3	552.2	314.8	294.6	20.28	15.526		
5,900.0	5,893.9	5,889.4	5,859.4	11.2	14.3	-12.22	95.1	562.8	320.9	300.2	20.63	15.554		
6,000.0	5,993.8	5,989.2	5,958.6	11.4	14.6	-12.21	96.8	573.4	326.9	305.9	20.98	15.582		
6,100.0	6,093.6	6,089.0	6,057.9	11.6	14.8	-12.21	98.6	584.1	332.9	311.6	21.33	15.608		
6,200.0	6,193.5	6,188.8	6,157.1	11.8	15.1	-12.20	100.3	594.7	338.9	317.3	21.68	15.633		
6,300.0	6,293.4	6,288.6	6,256.3	12.0	15.3	-12.19	102.1	605.3	345.0	322.9	22.03	15.658		
6,400.0	6,393.3	6,388.5	6,355.6	12.2	15.6	-12.19	103.8	616.0	351.0	328.6	22.38	15.682		
6,500.0	6,493.2	6,488.3	6,454.8	12.4	15.9	-12.18	105.6	626.6	357.0	334.3	22.73	15.705		
6,600.0	6,593.0	6,588.1	6,554.0	12.6	16.1	-12.17	107.3	637.3	363.0	339.9	23.08	15.727		
6,700.0	6,692.9	6,687.9	6,653.3	12.8	16.4	-12.17	109.0	647.9	369.0	345.6	23.43	15.749		
6,800.0	6,792.8	6,787.7	6,752.5	13.0	16.6	-12.16	110.8	658.5	375.1	351.3	23.78	15.770		
6,900.0	6,892.4	6,887.1	6,851.3	13.2	16.9	-87.46	112.5	669.1	382.9	358.8	24.13	15.870		
7,000.0	6,989.3	6,983.5	6,947.2	13.3	17.1	-98.60	114.2	679.4	395.9	371.4	24.49	16.163		
7,100.0	7,080.6	7,078.8	7,041.9	13.6	17.4	-104.62	115.7	689.5	416.3	391.4	24.87	16.743		
7,200.0	7,163.6	7,214.2	7,175.1	13.9	17.7	-110.86	98.4	703.8	440.9	415.5	25.31	17.418		
7,300.0	7,235.7	7,371.8	7,319.9	14.3	18.0	-115.75	39.6	719.3	463.9	438.1	25.79	17.987		
7,400.0	7,294.8	7,553.0	7,459.6	14.9	18.5	-119.06	-73.8	734.3	481.3	454.9	26.43	18.212		
7,500.0	7,338.9	7,751.5	7,563.9	15.7	19.3	-120.24	-241.1	745.5	489.5	461.9	27.57	17.753		
7,600.0	7,366.9	7,951.6	7,605.6	16.6	20.7	-119.04	-435.7	750.0	486.5	457.1	29.43	16.532		
7,700.0	7,377.9	8,061.5	7,606.0	17.7	21.7	-118.31	-545.6	750.0	480.9	450.3	30.65	15.692		
7,743.3	7,378.6	8,104.8	7,606.0	18.2	22.1	-118.24	-588.9	750.0	480.5	449.0	31.52	15.242		
7,800.0	7,378.0	8,161.5	7,606.0	18.8	22.6	-118.31	-645.6	750.0	480.8	448.2	32.67	14.715		
7,900.0	7,378.0	8,261.5	7,606.0	20.1	23.7	-118.31	-745.6	750.0	480.8	445.9	34.98	13.747		
8,000.0	7,378.0	8,361.5	7,606.0	21.4	24.8	-118.31	-845.6	750.0	480.8	443.4	37.39	12.859		
8,100.0	7,378.0	8,461.5	7,606.0	22.8	26.0	-118.31	-945.6	750.0	480.8	440.9	39.90	12.050		
8,200.0	7,378.0	8,561.5	7,606.0	24.2	27.3	-118.31	-1,045.6	750.0	480.8	438.3	42.49	11.316		
8,300.0	7,378.0	8,661.5	7,606.0	25.7	28.6	-118.31	-1,145.6	750.0	480.8	435.7	45.14	10.651		
8,400.0	7,378.0	8,761.5	7,606.0	27.2	30.0	-118.31	-1,245.6	750.0	480.8	433.0	47.85	10.049		
8,500.0	7,378.0	8,861.5	7,606.0	28.7	31.4	-118.31	-1,345.6	750.0	480.8	430.2	50.60	9.503		
8,600.0	7,378.0	8,961.5	7,606.0	30.3	32.8	-118.31	-1,445.6	750.0	480.8	427.4	53.38	9.007		
8,700.0	7,378.0	9,061.5	7,606.0	31.8	34.3	-118.31	-1,545.6	750.0	480.8	424.6	56.20	8.555		
8,800.0	7,378.0	9,161.5	7,606.0	33.4	35.8	-118.31	-1,645.6	750.0	480.8	421.8	59.05	8.143		
8,900.0	7,378.0	9,261.5	7,606.0	35.0	37.3	-118.31	-1,745.6	750.0	480.8	418.9	61.92	7.765		
9,000.0	7,378.0	9,361.5	7,606.0	36.7	38.8	-118.31	-1,845.6	750.0	480.8	416.0	64.81	7.419		
9,100.0	7,378.0	9,461.5	7,606.0	38.3	40.4	-118.31	-1,945.6	750.0	480.8	413.1	67.72	7.100		
9,200.0	7,378.0	9,561.5	7,606.0	39.9	41.9	-118.31	-2,045.6	750.0	480.8	410.2	70.64	6.806		
9,300.0	7,378.0	9,661.5	7,606.0	41.6	43.5	-118.31	-2,145.6	750.0	480.8	407.2	73.58	6.534		
9,400.0	7,378.0	9,761.5	7,606.0	43.3	45.1	-118.31	-2,245.6	750.0	480.8	404.3	76.53	6.283		
9,500.0	7,378.0	9,861.5	7,606.0	44.9	46.7	-118.31	-2,345.6	750.0	480.8	401.3	79.50	6.048		
9,600.0	7,378.0	9,961.5	7,606.0	46.6	48.3	-118.31	-2,445.6	750.0	480.8	398.4	82.47	5.831		
9,700.0	7,378.0	10,061.5	7,606.0	48.3	50.0	-118.31	-2,545.6	750.0	480.8	395.4	85.45	5.627		
9,800.0	7,378.0	10,161.5	7,606.0	50.0	51.6	-118.31	-2,645.6	750.0	480.8	392.4	88.44	5.437		
9,900.0	7,378.0	10,261.5	7,606.0	51.6	53.2	-118.31	-2,745.6	750.0	480.8	389.4	91.43	5.259		
10,000.0	7,378.0	10,361.5	7,606.0	53.3	54.9	-118.31	-2,845.6	750.0	480.8	386.4	94.43	5.092		
10,100.0	7,378.0	10,461.5	7,606.0	55.0	56.5	-118.31	-2,945.6	750.0	480.8	383.4	97.44	4.935		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3H-32H-K268 - 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)	
10,200.0	7,378.0	10,561.5	7,606.0	56.7	58.2	-118.31	-3,045.6	750.0	480.8	380.4	100.45	4.787		
10,300.0	7,378.0	10,661.5	7,606.0	58.4	59.9	-118.31	-3,145.6	750.0	480.8	377.4	103.47	4.647		
10,400.0	7,378.0	10,761.5	7,606.0	60.2	61.5	-118.31	-3,245.6	750.0	480.8	374.3	106.49	4.515		
10,500.0	7,378.0	10,861.5	7,606.0	61.9	63.2	-118.31	-3,345.6	750.0	480.8	371.3	109.52	4.390		
10,600.0	7,378.0	10,961.5	7,606.0	63.6	64.9	-118.31	-3,445.6	750.0	480.8	368.3	112.55	4.272		
10,700.0	7,378.0	11,061.5	7,606.0	65.3	66.6	-118.31	-3,545.6	750.0	480.8	365.2	115.58	4.160		
10,800.0	7,378.0	11,161.5	7,606.0	67.0	68.3	-118.31	-3,645.6	750.0	480.8	362.2	118.62	4.054		
10,900.0	7,378.0	11,261.5	7,606.0	68.7	69.9	-118.31	-3,745.6	750.0	480.8	359.2	121.66	3.952		
11,000.0	7,378.0	11,361.5	7,606.0	70.4	71.6	-118.31	-3,845.6	750.0	480.8	356.1	124.70	3.856		
11,100.0	7,378.0	11,461.5	7,606.0	72.2	73.3	-118.31	-3,945.6	750.0	480.8	353.1	127.74	3.764		
11,200.0	7,378.0	11,561.5	7,606.0	73.9	75.0	-118.31	-4,045.6	750.0	480.8	350.0	130.79	3.676		
11,300.0	7,378.0	11,661.5	7,606.0	75.6	76.7	-118.31	-4,145.6	750.0	480.8	347.0	133.84	3.593		
11,400.0	7,378.0	11,761.5	7,606.0	77.3	78.4	-118.31	-4,245.6	750.0	480.8	343.9	136.89	3.513		
11,500.0	7,378.0	11,861.5	7,606.0	79.1	80.1	-118.31	-4,345.6	750.0	480.8	340.9	139.94	3.436		
11,600.0	7,378.0	11,961.5	7,606.0	80.8	81.9	-118.31	-4,445.6	750.0	480.8	337.8	142.99	3.363		
11,700.0	7,378.0	12,061.5	7,606.0	82.5	83.6	-118.31	-4,545.6	750.0	480.8	334.8	146.05	3.292		
11,800.0	7,378.0	12,161.5	7,606.0	84.3	85.3	-118.31	-4,645.6	750.0	480.8	331.7	149.11	3.225		
11,900.0	7,378.0	12,261.5	7,606.0	86.0	87.0	-118.31	-4,745.6	750.0	480.8	328.7	152.17	3.160		
12,000.0	7,378.0	12,361.5	7,606.0	87.7	88.7	-118.31	-4,845.6	750.0	480.8	325.6	155.23	3.098		
12,100.0	7,378.0	12,461.5	7,606.0	89.5	90.4	-118.31	-4,945.6	750.0	480.8	322.5	158.29	3.038		
12,200.0	7,378.0	12,561.5	7,606.0	91.2	92.1	-118.31	-5,045.6	750.0	480.8	319.5	161.35	2.980		
12,300.0	7,378.0	12,661.5	7,606.0	92.9	93.9	-118.31	-5,145.6	750.0	480.8	316.4	164.42	2.924		
12,400.0	7,378.0	12,761.5	7,606.0	94.7	95.6	-118.35	-5,245.6	750.0	480.2	312.6	167.66	2.864		
12,500.0	7,378.0	12,861.5	7,606.0	96.4	97.3	-118.49	-5,345.6	750.0	478.1	307.4	170.73	2.801		
12,600.0	7,378.0	12,961.4	7,606.0	98.1	99.0	-118.75	-5,445.5	750.0	474.5	300.9	173.57	2.734		
12,700.0	7,378.0	13,061.3	7,606.0	99.9	100.7	-119.07	-5,545.3	750.0	469.8	293.7	176.14	2.667		
12,800.0	7,378.0	13,161.1	7,606.0	101.6	102.5	-119.39	-5,645.2	750.0	465.1	286.4	178.64	2.603		
12,900.0	7,378.0	13,261.0	7,606.0	103.4	104.2	-119.73	-5,745.0	750.0	460.3	279.2	181.11	2.542		
13,000.0	7,378.0	13,360.8	7,606.0	105.1	105.9	-120.06	-5,844.9	750.0	455.6	272.1	183.55	2.482		
13,100.0	7,378.0	13,460.7	7,606.0	106.8	107.6	-120.41	-5,944.7	750.0	450.9	265.0	185.94	2.425		
13,200.0	7,378.0	13,560.5	7,606.0	108.6	109.4	-120.76	-6,044.6	750.0	446.3	258.0	188.30	2.370		
13,300.0	7,378.0	13,660.4	7,606.0	110.3	111.1	-121.12	-6,144.4	750.0	441.6	251.0	190.61	2.317		
13,400.0	7,378.0	13,760.2	7,606.0	112.1	112.8	-121.49	-6,244.3	750.0	437.0	244.1	192.88	2.265		
13,500.0	7,378.0	13,860.1	7,606.0	113.8	114.5	-121.87	-6,344.2	750.0	432.3	237.2	195.10	2.216		
13,600.0	7,378.0	13,959.9	7,606.0	115.6	116.3	-122.25	-6,444.0	750.0	427.7	230.5	197.28	2.168		
13,700.0	7,378.0	14,059.8	7,606.0	117.3	118.0	-122.64	-6,543.9	750.0	423.1	223.7	199.40	2.122		
13,800.0	7,378.0	14,159.6	7,606.0	119.1	119.7	-123.04	-6,643.7	750.0	418.6	217.1	201.48	2.078		
13,822.6	7,378.0	14,182.2	7,606.0	119.4	120.1	-123.13	-6,666.3	750.0	417.6	215.6	201.94	2.068 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3I-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.488		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	30.002		
300.0	300.0	300.3	300.3	0.5	0.5	90.98	-0.3	18.8	18.8	17.8	1.00	18.714		
400.0	400.0	400.6	400.5	0.7	0.7	94.51	-1.3	16.3	16.4	15.0	1.36	12.072		
500.0	500.0	500.7	500.5	0.8	0.9	103.29	-2.9	12.2	12.6	10.9	1.71	7.350		
600.0	600.0	600.6	600.2	1.0	1.1	45.07	-5.1	6.6	7.7	5.6	2.09	3.689		
642.0	642.0	642.4	641.9	1.1	1.2	75.69	-6.3	3.7	6.6	4.4	2.26	2.938	CC, ES, SF	
700.0	700.0	700.0	699.4	1.2	1.3	119.79	-8.0	-0.7	9.2	6.8	2.44	3.771		
800.0	799.9	798.8	797.7	1.4	1.5	148.20	-11.5	-9.5	21.1	18.3	2.75	7.655		
900.0	899.7	897.1	895.3	1.6	1.8	156.17	-15.5	-19.8	36.5	33.4	3.09	11.808		
1,000.0	999.6	994.7	992.2	1.8	2.0	159.43	-20.2	-31.6	53.9	50.5	3.44	15.695		
1,100.0	1,099.5	1,091.8	1,088.2	1.9	2.3	161.09	-25.4	-44.9	73.1	69.3	3.78	19.342		
1,200.0	1,199.4	1,188.2	1,183.3	2.1	2.6	162.05	-31.2	-59.5	93.9	89.8	4.12	22.795		
1,300.0	1,299.3	1,283.8	1,277.4	2.3	3.0	162.64	-37.5	-75.5	116.5	112.0	4.46	26.095		
1,400.0	1,399.2	1,378.8	1,370.5	2.5	3.3	163.01	-44.3	-92.8	140.6	135.8	4.80	29.271		
1,500.0	1,499.0	1,472.9	1,462.4	2.7	3.7	163.26	-51.6	-111.4	166.3	161.2	5.14	32.348		
1,600.0	1,598.9	1,566.1	1,553.2	2.9	4.1	163.42	-59.4	-131.2	193.6	188.1	5.48	35.343		
1,700.0	1,698.8	1,659.4	1,643.7	3.1	4.5	163.52	-67.8	-152.4	222.4	216.6	5.82	38.252		
1,800.0	1,798.7	1,755.0	1,736.3	3.3	5.0	163.60	-76.5	-174.4	251.7	245.5	6.16	40.886		
1,900.0	1,898.6	1,850.7	1,829.0	3.5	5.4	163.66	-85.2	-196.5	280.9	274.5	6.50	43.244		
2,000.0	1,998.5	1,946.3	1,921.6	3.7	5.8	163.71	-93.9	-218.5	310.2	303.4	6.84	45.367		
2,100.0	2,098.3	2,041.9	2,014.3	3.9	6.3	163.75	-102.5	-240.6	339.5	332.3	7.18	47.289		
2,200.0	2,198.2	2,137.5	2,106.9	4.1	6.7	163.79	-111.2	-262.7	368.7	361.2	7.52	49.037		
2,300.0	2,298.1	2,233.2	2,199.5	4.2	7.2	163.82	-119.9	-284.7	398.0	390.1	7.86	50.633		
2,400.0	2,398.0	2,328.8	2,292.2	4.4	7.6	163.84	-128.6	-306.8	427.2	419.0	8.20	52.096		
2,500.0	2,497.9	2,424.4	2,384.8	4.6	8.1	163.87	-137.3	-328.8	456.5	447.9	8.54	53.443		
2,600.0	2,597.7	2,520.0	2,477.4	4.8	8.5	163.89	-146.0	-350.9	485.7	476.8	8.88	54.686		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3J-32H-K268 - 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	81.76	3.6	25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	81.76	3.6	25.2	25.4	25.1	0.30	83.778		
200.0	200.0	200.0	200.0	0.3	0.3	81.76	3.6	25.2	25.4	24.8	0.65	38.977		
300.0	300.0	300.2	300.2	0.5	0.5	81.92	3.5	25.0	25.2	24.2	1.00	25.178		
400.0	400.0	400.6	400.6	0.7	0.7	83.29	2.8	23.4	23.6	22.2	1.35	17.420		
500.0	500.0	500.9	500.8	0.8	0.9	86.71	1.2	20.3	20.3	18.6	1.71	11.891		
600.0	600.0	601.0	600.8	1.0	1.1	7.62	-1.2	15.6	14.8	12.7	2.06	7.188		
700.0	700.0	700.7	700.2	1.2	1.3	40.35	-4.4	9.4	7.4	5.0	2.45	3.035		
735.0	735.0	735.5	734.9	1.3	1.3	73.52	-5.6	6.8	6.2	3.6	2.60	2.391 CC, ES, SF		
800.0	799.9	799.8	799.0	1.4	1.5	127.97	-8.3	1.7	10.6	7.9	2.78	3.830		
900.0	899.7	898.4	897.0	1.6	1.7	148.75	-12.9	-7.5	24.4	21.3	3.10	7.882		
1,000.0	999.6	996.4	994.3	1.8	2.0	154.36	-18.3	-18.1	40.8	37.3	3.44	11.849		
1,100.0	1,099.5	1,093.9	1,090.9	1.9	2.2	156.72	-24.4	-30.2	59.0	55.2	3.79	15.578		
1,200.0	1,199.4	1,190.7	1,186.5	2.1	2.5	157.92	-31.1	-43.6	78.9	74.8	4.13	19.101		
1,300.0	1,299.3	1,286.9	1,281.2	2.3	2.9	158.59	-38.6	-58.3	100.5	96.0	4.47	22.458		
1,400.0	1,399.2	1,382.3	1,374.9	2.5	3.2	158.98	-46.7	-74.3	123.7	118.9	4.82	25.682		
1,500.0	1,499.0	1,477.4	1,468.0	2.7	3.6	159.21	-55.5	-91.6	148.5	143.3	5.16	28.788		
1,600.0	1,598.9	1,574.1	1,562.6	2.9	3.9	159.37	-64.6	-109.7	173.8	168.3	5.50	31.581		
1,700.0	1,698.8	1,670.9	1,657.3	3.1	4.3	159.49	-73.7	-127.8	199.1	193.2	5.85	34.046		
1,800.0	1,798.7	1,767.6	1,751.9	3.3	4.7	159.58	-82.9	-145.8	224.4	218.2	6.19	36.237		
1,900.0	1,898.6	1,864.4	1,846.5	3.5	5.1	159.65	-92.0	-163.9	249.7	243.1	6.54	38.196		
2,000.0	1,998.5	1,961.1	1,941.1	3.7	5.5	159.71	-101.2	-181.9	275.0	268.1	6.88	39.958		
2,100.0	2,098.3	2,057.9	2,035.7	3.9	5.9	159.76	-110.3	-200.0	300.3	293.0	7.23	41.552		
2,200.0	2,198.2	2,154.6	2,130.3	4.1	6.2	159.80	-119.4	-218.0	325.5	318.0	7.57	43.001		
2,300.0	2,298.1	2,251.4	2,224.9	4.2	6.6	159.83	-128.6	-236.1	350.8	342.9	7.92	44.323		
2,400.0	2,398.0	2,348.1	2,319.5	4.4	7.0	159.86	-137.7	-254.2	376.1	367.9	8.26	45.535		
2,500.0	2,497.9	2,444.9	2,414.1	4.6	7.4	159.89	-146.8	-272.2	401.4	392.8	8.61	46.650		
2,600.0	2,597.7	2,541.6	2,508.7	4.8	7.8	159.91	-156.0	-290.3	426.7	417.8	8.95	47.678		
2,700.0	2,697.6	2,638.4	2,603.3	5.0	8.2	159.94	-165.1	-308.3	452.0	442.7	9.30	48.630		
2,800.0	2,797.5	2,735.1	2,697.9	5.2	8.6	159.95	-174.3	-326.4	477.3	467.7	9.64	49.514		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3K-32H-K268 - 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	0.0	0.0	0.0	0.0	89.99	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	30.8	30.8	30.5	0.30	101.338		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	30.8	30.8	30.1	0.65	47.147		
300.0	300.0	300.0	300.0	0.5	0.5	89.99	0.0	30.8	30.8	29.8	1.00	30.719		
400.0	400.0	400.2	400.2	0.7	0.7	90.23	-0.1	30.6	30.6	29.2	1.35	22.642		
500.0	500.0	500.6	500.6	0.8	0.9	92.22	-1.1	29.2	29.2	27.5	1.70	17.143		
600.0	600.0	600.9	600.8	1.0	1.0	9.91	-3.1	26.3	25.6	23.6	2.05	12.467		
700.0	700.0	700.9	700.7	1.2	1.2	21.65	-6.1	22.0	19.5	17.1	2.41	8.092		
800.0	799.9	800.4	799.9	1.4	1.4	53.93	-10.1	16.3	13.5	10.7	2.80	4.806		
829.3	829.1	829.5	828.9	1.4	1.5	69.53	-11.5	14.3	13.0	10.0	2.92	4.435 CC, ES, SF		
900.0	899.7	899.5	898.6	1.6	1.6	105.03	-15.0	9.2	16.1	12.9	3.16	5.091		
1,000.0	999.6	998.0	996.7	1.8	1.9	130.06	-20.9	0.7	27.6	24.2	3.47	7.951		
1,100.0	1,099.5	1,096.1	1,094.0	1.9	2.1	139.91	-27.7	-9.0	42.9	39.1	3.81	11.272		
1,200.0	1,199.4	1,193.6	1,190.5	2.1	2.4	144.61	-35.4	-20.1	60.5	56.4	4.15	14.581		
1,300.0	1,299.3	1,290.7	1,286.5	2.3	2.7	147.21	-44.0	-32.4	79.9	75.4	4.49	17.787		
1,400.0	1,399.2	1,388.7	1,383.2	2.5	3.0	148.80	-53.0	-45.2	99.9	95.1	4.84	20.646		
1,500.0	1,499.0	1,486.6	1,479.9	2.7	3.3	149.86	-61.9	-58.0	120.0	114.8	5.19	23.128		
1,600.0	1,598.9	1,584.6	1,576.6	2.9	3.6	150.61	-70.8	-70.9	140.1	134.5	5.54	25.301		
1,700.0	1,698.8	1,682.5	1,673.3	3.1	3.9	151.18	-79.8	-83.7	160.2	154.3	5.88	27.217		
1,800.0	1,798.7	1,780.5	1,770.0	3.3	4.2	151.62	-88.7	-96.5	180.3	174.0	6.23	28.920		
1,900.0	1,898.6	1,878.4	1,866.7	3.5	4.5	151.97	-97.6	-109.3	200.4	193.8	6.58	30.442		
2,000.0	1,998.5	1,976.4	1,963.4	3.7	4.8	152.26	-106.6	-122.1	220.5	213.6	6.93	31.811		
2,100.0	2,098.3	2,074.3	2,060.1	3.9	5.1	152.50	-115.5	-134.9	240.6	233.4	7.28	33.049		
2,200.0	2,198.2	2,172.3	2,156.8	4.1	5.5	152.70	-124.4	-147.7	260.8	253.1	7.63	34.173		
2,300.0	2,298.1	2,270.2	2,253.5	4.2	5.8	152.87	-133.4	-160.6	280.9	272.9	7.98	35.198		
2,400.0	2,398.0	2,368.2	2,350.2	4.4	6.1	153.02	-142.3	-173.4	301.0	292.7	8.33	36.137		
2,500.0	2,497.9	2,466.1	2,446.9	4.6	6.4	153.15	-151.2	-186.2	321.2	312.5	8.68	37.000		
2,600.0	2,597.7	2,564.1	2,543.6	4.8	6.7	153.27	-160.2	-199.0	341.3	332.3	9.03	37.796		
2,700.0	2,697.6	2,662.0	2,640.3	5.0	7.1	153.37	-169.1	-211.8	361.4	352.1	9.38	38.533		
2,800.0	2,797.5	2,760.0	2,737.0	5.2	7.4	153.46	-178.0	-224.6	381.6	371.9	9.73	39.216		
2,900.0	2,897.4	2,857.9	2,833.7	5.4	7.7	153.55	-187.0	-237.5	401.7	391.6	10.08	39.852		
3,000.0	2,997.3	2,955.9	2,930.3	5.6	8.0	153.62	-195.9	-250.3	421.9	411.4	10.43	40.445		
3,100.0	3,097.2	3,053.8	3,027.0	5.8	8.3	153.69	-204.8	-263.1	442.0	431.2	10.78	41.000		
3,200.0	3,197.0	3,151.8	3,123.7	6.0	8.7	153.75	-213.8	-275.9	462.2	451.0	11.13	41.519		
3,300.0	3,296.9	3,249.7	3,220.4	6.2	9.0	153.81	-222.7	-288.7	482.3	470.8	11.48	42.007		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3L-32H-K268 - 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	0.0	0.0	0.0	0.0	83.80	3.6	33.6	33.8					
100.0	100.0	100.0	100.0	0.2	0.2	83.80	3.6	33.6	33.8	33.5	0.30	111.201		
200.0	200.0	200.0	200.0	0.3	0.3	83.80	3.6	33.6	33.8	33.1	0.65	51.735		
300.0	300.0	300.0	300.0	0.5	0.5	83.80	3.6	33.6	33.8	32.8	1.00	33.709		
400.0	400.0	400.0	400.0	0.7	0.7	83.80	3.6	33.6	33.8	32.4	1.35	24.999		
500.0	500.0	500.4	500.4	0.8	0.9	84.83	3.0	33.0	33.1	31.4	1.70	19.477		
600.0	600.0	600.8	600.7	1.0	1.0	0.95	1.0	31.3	30.4	28.4	2.05	14.815		
700.0	700.0	700.9	700.7	1.2	1.2	8.42	-2.3	28.4	25.0	22.6	2.41	10.386		
800.0	799.9	800.6	800.2	1.4	1.4	26.48	-6.9	24.3	18.1	15.3	2.78	6.497		
887.0	886.8	887.0	886.4	1.5	1.6	60.37	-11.9	19.9	14.8	11.7	3.12	4.731 CC, ES		
900.0	899.7	899.9	899.2	1.6	1.6	66.55	-12.7	19.2	14.9	11.7	3.17	4.689 SF		
1,000.0	999.6	998.8	997.7	1.8	1.8	104.88	-19.8	12.9	21.3	17.8	3.50	6.072		
1,100.0	1,099.5	1,097.2	1,095.5	1.9	2.1	122.18	-28.2	5.6	33.9	30.1	3.83	8.861		
1,200.0	1,199.4	1,195.7	1,193.2	2.1	2.3	129.91	-37.5	-2.5	49.2	45.1	4.17	11.801		
1,300.0	1,299.3	1,294.4	1,291.1	2.3	2.6	133.96	-46.8	-10.7	65.0	60.5	4.52	14.390		
1,400.0	1,399.2	1,393.0	1,389.0	2.5	2.8	136.42	-56.1	-18.9	81.0	76.2	4.87	16.638		
1,500.0	1,499.0	1,491.7	1,486.9	2.7	3.1	138.06	-65.4	-27.1	97.1	91.9	5.22	18.597		
1,600.0	1,598.9	1,590.4	1,584.7	2.9	3.4	139.24	-74.8	-35.3	113.3	107.7	5.58	20.315		
1,700.0	1,698.8	1,689.0	1,682.6	3.1	3.6	140.12	-84.1	-43.5	129.5	123.5	5.93	21.831		
1,800.0	1,798.7	1,787.7	1,780.5	3.3	3.9	140.81	-93.4	-51.7	145.7	139.4	6.29	23.178		
1,900.0	1,898.6	1,886.4	1,878.4	3.5	4.2	141.36	-102.8	-59.9	161.9	155.3	6.64	24.382		
2,000.0	1,998.5	1,985.0	1,976.2	3.7	4.4	141.81	-112.1	-68.1	178.1	171.1	7.00	25.464		
2,100.0	2,098.3	2,083.7	2,074.1	3.9	4.7	142.18	-121.4	-76.3	194.4	187.0	7.35	26.442		
2,200.0	2,198.2	2,182.3	2,172.0	4.1	5.0	142.50	-130.8	-84.5	210.6	202.9	7.71	27.330		
2,300.0	2,298.1	2,281.0	2,269.9	4.2	5.3	142.77	-140.1	-92.7	226.9	218.8	8.06	28.139		
2,400.0	2,398.0	2,379.7	2,367.8	4.4	5.5	143.00	-149.4	-100.9	243.2	234.7	8.42	28.880		
2,500.0	2,497.9	2,478.3	2,465.6	4.6	5.8	143.21	-158.7	-109.1	259.4	250.7	8.78	29.560		
2,600.0	2,597.7	2,577.0	2,563.5	4.8	6.1	143.39	-168.1	-117.2	275.7	266.6	9.13	30.188		
2,700.0	2,697.6	2,675.7	2,661.4	5.0	6.3	143.55	-177.4	-125.4	292.0	282.5	9.49	30.768		
2,800.0	2,797.5	2,774.3	2,759.3	5.2	6.6	143.70	-186.7	-133.6	308.3	298.4	9.85	31.306		
2,900.0	2,897.4	2,873.0	2,857.2	5.4	6.9	143.83	-196.1	-141.8	324.5	314.3	10.20	31.806		
3,000.0	2,997.3	2,971.7	2,955.0	5.6	7.2	143.94	-205.4	-150.0	340.8	330.2	10.56	32.273		
3,100.0	3,097.2	3,070.3	3,052.9	5.8	7.4	144.05	-214.7	-158.2	357.1	346.2	10.92	32.709		
3,200.0	3,197.0	3,169.0	3,150.8	6.0	7.7	144.15	-224.1	-166.4	373.4	362.1	11.27	33.117		
3,300.0	3,296.9	3,267.7	3,248.7	6.2	8.0	144.24	-233.4	-174.6	389.6	378.0	11.63	33.500		
3,400.0	3,396.8	3,366.3	3,346.6	6.4	8.3	144.32	-242.7	-182.8	405.9	393.9	11.99	33.860		
3,500.0	3,496.7	3,465.0	3,444.4	6.6	8.5	144.39	-252.0	-191.0	422.2	409.9	12.35	34.200		
3,600.0	3,596.6	3,563.6	3,542.3	6.8	8.8	144.46	-261.4	-199.2	438.5	425.8	12.70	34.520		
3,700.0	3,696.5	3,662.3	3,640.2	7.0	9.1	144.53	-270.7	-207.4	454.8	441.7	13.06	34.823		
3,800.0	3,796.3	3,761.0	3,738.1	7.1	9.4	144.59	-280.0	-215.6	471.1	457.6	13.42	35.109		
3,900.0	3,896.2	3,859.6	3,836.0	7.3	9.7	144.65	-289.4	-223.8	487.3	473.6	13.77	35.381		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3M-32H-K268 - 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 Depth (ft)	Vertical Depth (ft)	Measured Depth Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	50.4	50.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	50.4	50.4	50.1	0.30	165.826		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	50.4	50.4	49.7	0.65	77.149		
300.0	300.0	300.3	300.3	0.5	0.5	90.94	-0.8	50.1	50.1	49.1	1.00	49.956		
400.0	400.0	400.5	400.5	0.7	0.7	93.84	-3.3	49.2	49.3	48.0	1.35	36.466		
500.0	500.0	500.6	500.5	0.8	0.9	98.85	-7.4	47.7	48.3	46.6	1.70	28.396		
600.0	600.0	600.5	600.2	1.0	1.1	19.21	-13.2	45.7	46.7	44.6	2.09	22.321		
700.0	700.0	700.0	699.4	1.2	1.3	30.39	-20.6	43.1	44.7	42.2	2.48	18.023		
792.6	792.5	792.0	791.0	1.4	1.5	43.91	-28.5	40.3	43.9	41.0	2.84	15.464		
800.0	799.9	799.3	798.3	1.4	1.5	45.19	-29.1	40.1	43.8	40.9	2.86	15.281 CC, ES		
900.0	899.7	898.6	897.1	1.6	1.7	60.28	-37.8	37.0	45.6	42.3	3.23	14.123		
1,000.0	999.6	997.9	996.0	1.8	2.0	73.41	-46.5	33.9	50.2	46.7	3.57	14.070 SF		
1,100.0	1,099.5	1,097.2	1,094.8	1.9	2.2	83.89	-55.2	30.9	57.1	53.2	3.91	14.607		
1,200.0	1,199.4	1,196.5	1,193.7	2.1	2.4	91.94	-63.8	27.8	65.4	61.1	4.24	15.404		
1,300.0	1,299.3	1,295.7	1,292.6	2.3	2.7	98.09	-72.5	24.8	74.7	70.1	4.59	16.283		
1,400.0	1,399.2	1,395.0	1,391.4	2.5	2.9	102.85	-81.2	21.7	84.7	79.7	4.93	17.158		
1,500.0	1,499.0	1,494.3	1,490.3	2.7	3.1	106.59	-89.8	18.7	95.1	89.8	5.29	17.991		
1,600.0	1,598.9	1,593.6	1,589.1	2.9	3.4	109.58	-98.5	15.6	105.8	100.2	5.64	18.766		
1,700.0	1,698.8	1,692.9	1,688.0	3.1	3.6	112.01	-107.2	12.5	116.8	110.8	6.00	19.480		
1,800.0	1,798.7	1,792.2	1,786.8	3.3	3.8	114.03	-115.8	9.5	128.0	121.6	6.36	20.135		
1,900.0	1,898.6	1,891.5	1,885.7	3.5	4.1	115.72	-124.5	6.4	139.3	132.5	6.72	20.735		
2,000.0	1,998.5	1,990.7	1,984.6	3.7	4.3	117.15	-133.2	3.4	150.7	143.6	7.08	21.285		
2,100.0	2,098.3	2,090.0	2,083.4	3.9	4.5	118.39	-141.8	0.3	162.1	154.7	7.44	21.789		
2,200.0	2,198.2	2,189.3	2,182.3	4.1	4.8	119.46	-150.5	-2.8	173.7	165.8	7.80	22.253		
2,300.0	2,298.1	2,288.6	2,281.1	4.2	5.0	120.39	-159.2	-5.8	185.2	177.1	8.17	22.681		
2,400.0	2,398.0	2,387.9	2,380.0	4.4	5.2	121.22	-167.8	-8.9	196.9	188.3	8.53	23.076		
2,500.0	2,497.9	2,487.2	2,478.9	4.6	5.5	121.96	-176.5	-11.9	208.5	199.6	8.90	23.441		
2,600.0	2,597.7	2,586.4	2,577.7	4.8	5.7	122.61	-185.2	-15.0	220.2	211.0	9.26	23.780		
2,700.0	2,697.6	2,685.7	2,676.6	5.0	5.9	123.20	-193.8	-18.1	231.9	222.3	9.63	24.096		
2,800.0	2,797.5	2,785.0	2,775.4	5.2	6.2	123.74	-202.5	-21.1	243.7	233.7	9.99	24.389		
2,900.0	2,897.4	2,884.3	2,874.3	5.4	6.4	124.22	-211.2	-24.2	255.5	245.1	10.36	24.664		
3,000.0	2,997.3	2,983.6	2,973.1	5.6	6.6	124.66	-219.8	-27.2	267.2	256.5	10.72	24.921		
3,100.0	3,097.2	3,082.9	3,072.0	5.8	6.9	125.07	-228.5	-30.3	279.0	267.9	11.09	25.162		
3,200.0	3,197.0	3,182.1	3,170.9	6.0	7.1	125.44	-237.2	-33.4	290.8	279.4	11.46	25.388		
3,300.0	3,296.9	3,281.4	3,269.7	6.2	7.3	125.78	-245.8	-36.4	302.6	290.8	11.82	25.601		
3,400.0	3,396.8	3,380.7	3,368.6	6.4	7.6	126.10	-254.5	-39.5	314.5	302.3	12.19	25.802		
3,500.0	3,496.7	3,480.0	3,467.4	6.6	7.8	126.39	-263.2	-42.5	326.3	313.8	12.55	25.992		
3,600.0	3,596.6	3,579.3	3,566.3	6.8	8.1	126.66	-271.9	-45.6	338.1	325.2	12.92	26.171		
3,700.0	3,696.5	3,678.6	3,665.1	7.0	8.3	126.92	-280.5	-48.7	350.0	336.7	13.29	26.341		
3,800.0	3,796.3	3,777.8	3,764.0	7.1	8.5	127.16	-289.2	-51.7	361.9	348.2	13.65	26.502		
3,900.0	3,896.2	3,877.1	3,862.9	7.3	8.8	127.38	-297.9	-54.8	373.7	359.7	14.02	26.655		
4,000.0	3,996.1	3,976.4	3,961.7	7.5	9.0	127.59	-306.5	-57.8	385.6	371.2	14.39	26.800		
4,100.0	4,096.0	4,075.7	4,060.6	7.7	9.2	127.79	-315.2	-60.9	397.5	382.7	14.75	26.939		
4,200.0	4,195.9	4,175.0	4,159.4	7.9	9.5	127.97	-323.9	-64.0	409.3	394.2	15.12	27.071		
4,300.0	4,295.8	4,274.3	4,258.3	8.1	9.7	128.15	-332.5	-67.0	421.2	405.7	15.49	27.196		
4,400.0	4,395.6	4,373.5	4,357.1	8.3	9.9	128.31	-341.2	-70.1	433.1	417.2	15.85	27.317		
4,500.0	4,495.5	4,472.8	4,456.0	8.5	10.2	128.47	-349.9	-73.1	445.0	428.8	16.22	27.432		
4,600.0	4,595.4	4,572.1	4,554.9	8.7	10.4	128.62	-358.5	-76.2	456.9	440.3	16.59	27.541		
4,700.0	4,695.3	4,671.4	4,653.7	8.9	10.6	128.76	-367.2	-79.3	468.8	451.8	16.96	27.647		
4,800.0	4,795.2	4,770.7	4,752.6	9.1	10.9	128.89	-375.9	-82.3	480.7	463.3	17.32	27.748		
4,900.0	4,895.0	4,870.0	4,851.4	9.3	11.1	129.02	-384.5	-85.4	492.6	474.9	17.69	27.845		
7,600.0	7,366.9	7,416.8	7,366.4	16.6	15.6	89.58	-466.8	-163.2	489.8	459.0	30.75	15.929		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3M-32H-K268 - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,620.0	7,370.5	7,408.1	7,359.3	16.8	15.7	88.67	-471.8	-163.0	489.5	458.5	31.00	15.787	
7,700.0	7,377.9	7,372.8	7,329.7	17.7	15.8	84.51	-491.0	-162.1	494.1	462.2	31.92	15.480	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3N-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	86.08	3.6	53.2	53.3						
100.0	100.0	100.0	100.0	0.2	0.2	86.08	3.6	53.2	53.3	53.0	0.30	175.450			
200.0	200.0	200.0	200.0	0.3	0.3	86.08	3.6	53.2	53.3	52.6	0.65	81.627			
300.0	300.0	300.0	300.0	0.5	0.5	86.08	3.6	53.2	53.3	52.3	1.00	53.185			
400.0	400.0	399.9	399.9	0.7	0.7	87.00	2.8	53.3	53.4	52.1	1.35	39.536			
500.0	500.0	499.7	499.6	0.8	0.9	89.75	0.2	53.8	53.8	52.1	1.70	31.678			
600.0	600.0	599.4	599.2	1.0	1.0	7.08	-4.0	54.7	54.0	51.9	2.06	26.169			
700.0	700.0	698.9	698.5	1.2	1.2	13.70	-10.0	55.9	53.4	51.0	2.43	21.986			
798.2	798.1	796.3	795.7	1.4	1.4	22.39	-17.4	57.4	52.9	50.2	2.79	18.964			
800.0	799.9	798.1	797.5	1.4	1.4	22.63	-17.6	57.4	52.8	50.0	2.80	18.870 CC, ES			
900.0	899.7	897.4	896.4	1.6	1.7	32.97	-26.6	59.2	54.0	50.9	3.17	17.068			
1,000.0	999.6	996.9	995.4	1.8	1.9	42.67	-35.7	61.0	57.0	53.5	3.52	16.182			
1,100.0	1,099.5	1,096.5	1,094.5	1.9	2.1	51.19	-44.9	62.9	61.5	57.6	3.88	15.859			
1,200.0	1,199.4	1,196.0	1,193.6	2.1	2.3	58.43	-54.0	64.7	67.1	62.9	4.23	15.874			
1,300.0	1,299.3	1,295.5	1,292.7	2.3	2.6	64.48	-63.2	66.5	73.6	69.1	4.58	16.079			
1,400.0	1,399.2	1,395.0	1,391.7	2.5	2.8	69.50	-72.3	68.4	80.8	75.9	4.93	16.385			
1,500.0	1,499.0	1,494.5	1,490.8	2.7	3.0	73.68	-81.4	70.2	88.6	83.3	5.29	16.737			
1,600.0	1,598.9	1,594.0	1,589.9	2.9	3.3	77.17	-90.6	72.0	96.7	91.0	5.65	17.104			
1,700.0	1,698.8	1,693.5	1,689.0	3.1	3.5	80.11	-99.7	73.9	105.1	99.1	6.02	17.468			
1,800.0	1,798.7	1,793.0	1,788.0	3.3	3.7	82.62	-108.9	75.7	113.8	107.4	6.39	17.821			
1,900.0	1,898.6	1,892.5	1,887.1	3.5	4.0	84.76	-118.0	77.5	122.6	115.9	6.75	18.157			
2,000.0	1,998.5	1,992.0	1,986.2	3.7	4.2	86.62	-127.2	79.4	131.6	124.5	7.12	18.475			
2,100.0	2,098.3	2,091.6	2,085.2	3.9	4.4	88.23	-136.3	81.2	140.7	133.2	7.50	18.773			
2,200.0	2,198.2	2,191.1	2,184.3	4.1	4.7	89.65	-145.5	83.0	150.0	142.1	7.87	19.053			
2,300.0	2,298.1	2,290.6	2,283.4	4.2	4.9	90.91	-154.6	84.9	159.2	151.0	8.25	19.314			
2,400.0	2,398.0	2,390.1	2,382.5	4.4	5.2	92.02	-163.8	86.7	168.6	160.0	8.62	19.559			
2,500.0	2,497.9	2,489.6	2,481.5	4.6	5.4	93.02	-172.9	88.5	178.0	169.0	9.00	19.788			
2,600.0	2,597.7	2,589.1	2,580.6	4.8	5.6	93.92	-182.1	90.3	187.5	178.1	9.37	20.002			
2,700.0	2,697.6	2,688.6	2,679.7	5.0	5.9	94.73	-191.2	92.2	197.0	187.2	9.75	20.203			
2,800.0	2,797.5	2,788.1	2,778.7	5.2	6.1	95.47	-200.4	94.0	206.5	196.4	10.13	20.392			
2,900.0	2,897.4	2,887.6	2,877.8	5.4	6.3	96.14	-209.5	95.8	216.1	205.6	10.51	20.569			
3,000.0	2,997.3	2,987.1	2,976.9	5.6	6.6	96.75	-218.6	97.7	225.7	214.8	10.88	20.736			
3,100.0	3,097.2	3,086.7	3,076.0	5.8	6.8	97.32	-227.8	99.5	235.3	224.1	11.26	20.893			
3,200.0	3,197.0	3,186.2	3,175.0	6.0	7.0	97.84	-236.9	101.3	245.0	233.3	11.64	21.041			
3,300.0	3,296.9	3,285.7	3,274.1	6.2	7.3	98.32	-246.1	103.2	254.6	242.6	12.02	21.181			
3,400.0	3,396.8	3,385.2	3,373.2	6.4	7.5	98.76	-255.2	105.0	264.3	251.9	12.40	21.313			
3,500.0	3,496.7	3,484.7	3,472.3	6.6	7.8	99.18	-264.4	106.8	274.0	261.2	12.78	21.439			
3,600.0	3,596.6	3,584.2	3,571.3	6.8	8.0	99.56	-273.5	108.7	283.7	270.6	13.16	21.558			
3,700.0	3,696.5	3,683.7	3,670.4	7.0	8.2	99.92	-282.7	110.5	293.4	279.9	13.54	21.670			
3,800.0	3,796.3	3,783.2	3,769.5	7.1	8.5	100.26	-291.8	112.3	303.2	289.2	13.92	21.777			
3,900.0	3,896.2	3,882.7	3,868.5	7.3	8.7	100.58	-301.0	114.2	312.9	298.6	14.30	21.879			
4,000.0	3,996.1	3,982.2	3,967.6	7.5	8.9	100.87	-310.1	116.0	322.7	308.0	14.68	21.977			
4,100.0	4,096.0	4,081.8	4,066.7	7.7	9.2	101.15	-319.3	117.8	332.4	317.3	15.06	22.069			
4,200.0	4,195.9	4,181.3	4,165.8	7.9	9.4	101.42	-328.4	119.7	342.2	326.7	15.44	22.158			
4,300.0	4,295.8	4,280.8	4,264.8	8.1	9.7	101.67	-337.6	121.5	351.9	336.1	15.82	22.242			
4,400.0	4,395.6	4,380.3	4,363.9	8.3	9.9	101.90	-346.7	123.3	361.7	345.5	16.20	22.323			
4,500.0	4,495.5	4,479.8	4,463.0	8.5	10.1	102.13	-355.8	125.1	371.5	354.9	16.58	22.400			
4,600.0	4,595.4	4,579.3	4,562.0	8.7	10.4	102.34	-365.0	127.0	381.3	364.3	16.97	22.474			
4,700.0	4,695.3	4,678.8	4,661.1	8.9	10.6	102.54	-374.1	128.8	391.1	373.7	17.35	22.545			
4,800.0	4,795.2	4,778.3	4,760.2	9.1	10.8	102.73	-383.3	130.6	400.9	383.2	17.73	22.613			
4,900.0	4,895.0	4,877.8	4,859.3	9.3	11.1	102.91	-392.4	132.5	410.7	392.6	18.11	22.679			
5,000.0	4,994.9	4,977.3	4,958.3	9.5	11.3	103.09	-401.6	134.3	420.5	402.0	18.49	22.742			

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3N-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,100.0	5,094.8	5,076.9	5,057.4	9.7	11.6	103.25	-410.7	136.1	430.3	411.4	18.87	22.802			
5,200.0	5,194.7	5,176.4	5,156.5	9.9	11.8	103.41	-419.9	138.0	440.1	420.9	19.25	22.861			
5,300.0	5,294.6	5,275.9	5,255.5	10.1	12.0	103.56	-429.0	139.8	449.9	430.3	19.63	22.917			
5,400.0	5,394.5	5,375.4	5,354.6	10.2	12.3	103.71	-438.2	141.6	459.7	439.7	20.01	22.971			
5,500.0	5,494.3	5,474.9	5,453.7	10.4	12.5	103.84	-447.3	143.5	469.6	449.2	20.40	23.023			
5,600.0	5,594.2	5,574.4	5,552.8	10.6	12.8	103.98	-456.5	145.3	479.4	458.6	20.78	23.073			
5,700.0	5,694.1	5,673.9	5,651.8	10.8	13.0	104.11	-465.6	147.1	489.2	468.1	21.16	23.122			
5,800.0	5,794.0	5,773.4	5,750.9	11.0	13.2	104.23	-474.8	149.0	499.0	477.5	21.54	23.169			
7,000.0	6,989.3	7,673.6	7,375.0	13.3	13.6	128.38	-55.1	179.0	408.6	383.0	25.54	15.996			
7,100.0	7,080.6	7,611.8	7,365.4	13.6	13.6	124.53	-116.2	178.8	320.2	295.0	25.23	12.690			
7,200.0	7,163.6	7,555.9	7,351.1	13.9	13.6	119.02	-170.2	178.5	240.0	214.8	25.21	9.519			
7,300.0	7,235.7	7,502.4	7,332.5	14.3	13.7	109.43	-220.4	178.2	176.1	150.2	25.95	6.786			
7,400.0	7,294.8	7,450.0	7,309.9	14.9	13.9	94.61	-267.6	177.8	145.8	118.3	27.45	5.310			
7,413.5	7,301.6	7,442.9	7,306.5	15.0	13.9	92.23	-273.8	177.7	145.3	117.7	27.66	5.254 SF			
7,500.0	7,338.9	7,400.0	7,284.4	15.7	14.1	76.45	-310.6	177.3	162.2	134.0	28.25	5.743			
7,600.0	7,366.9	7,350.0	7,255.2	16.6	14.3	58.58	-351.2	176.8	209.4	182.5	26.93	7.776			
7,700.0	7,377.9	7,300.0	7,222.6	17.7	14.5	44.74	-389.0	176.2	266.9	242.6	24.34	10.968			
7,800.0	7,378.0	7,250.0	7,186.8	18.8	14.7	38.33	-423.9	175.5	329.4	306.0	23.43	14.058			
7,900.0	7,378.0	7,200.0	7,148.2	20.1	14.9	33.45	-455.6	174.8	400.0	377.2	22.82	17.526			
8,000.0	7,378.0	7,173.6	7,126.7	21.4	15.0	31.21	-470.9	174.4	476.2	453.3	22.88	20.817			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3O-32H-K268 - 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	0.0	0.0	0.0	0.0	90.00	0.0	58.8	58.8					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	58.8	58.8	58.4	0.30	193.464		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	58.8	58.8	58.1	0.65	90.007		
233.5	233.5	233.5	233.5	0.4	0.4	90.00	0.0	58.8	58.8	58.0	0.77	76.346 CC		
300.0	300.0	299.7	299.7	0.5	0.5	90.16	-0.2	58.9	58.9	57.9	1.00	58.806 ES		
400.0	400.0	399.0	399.0	0.7	0.7	91.48	-1.5	59.9	59.9	58.6	1.35	44.399		
500.0	500.0	498.3	498.2	0.8	0.9	93.97	-4.3	62.0	62.2	60.5	1.70	36.527		
600.0	600.0	597.5	597.2	1.0	1.0	10.27	-8.4	65.1	64.8	62.8	2.06	31.493		
700.0	700.0	696.5	696.0	1.2	1.2	14.83	-13.9	69.2	67.3	64.9	2.42	27.858		
800.0	799.9	795.3	794.4	1.4	1.5	20.32	-20.7	74.3	70.0	67.2	2.77	25.228		
900.0	899.7	893.9	892.6	1.6	1.7	26.20	-28.9	80.4	74.3	71.2	3.13	23.730		
1,000.0	999.6	993.5	991.6	1.8	1.9	31.65	-37.7	87.0	79.9	76.5	3.48	22.945		
1,100.0	1,099.5	1,093.1	1,090.5	1.9	2.2	36.34	-46.5	93.7	86.2	82.4	3.84	22.480		
1,200.0	1,199.4	1,192.7	1,189.5	2.1	2.4	40.38	-55.3	100.3	93.0	88.8	4.19	22.214		
1,300.0	1,299.3	1,292.2	1,288.4	2.3	2.7	43.85	-64.1	106.9	100.2	95.6	4.54	22.071		
1,400.0	1,399.2	1,391.8	1,387.4	2.5	2.9	46.86	-72.9	113.5	107.7	102.8	4.89	22.006		
1,500.0	1,499.0	1,491.4	1,486.4	2.7	3.2	49.46	-81.8	120.1	115.4	110.2	5.25	21.989		
1,600.0	1,598.9	1,590.9	1,585.3	2.9	3.4	51.74	-90.6	126.7	123.4	117.8	5.61	22.001		
1,700.0	1,698.8	1,690.5	1,684.3	3.1	3.7	53.74	-99.4	133.3	131.5	125.6	5.97	22.032		
1,800.0	1,798.7	1,790.1	1,783.2	3.3	4.0	55.50	-108.2	139.9	139.8	133.5	6.33	22.075		
1,900.0	1,898.6	1,889.7	1,882.2	3.5	4.2	57.07	-117.0	146.5	148.2	141.5	6.70	22.123		
2,000.0	1,998.5	1,989.2	1,981.2	3.7	4.5	58.46	-125.8	153.1	156.7	149.6	7.07	22.174		
2,100.0	2,098.3	2,088.8	2,080.1	3.9	4.7	59.72	-134.6	159.7	165.2	157.8	7.43	22.226		
2,200.0	2,198.2	2,188.4	2,179.1	4.1	5.0	60.84	-143.4	166.3	173.9	166.1	7.80	22.279		
2,300.0	2,298.1	2,287.9	2,278.0	4.2	5.2	61.87	-152.2	173.0	182.6	174.4	8.18	22.330		
2,400.0	2,398.0	2,387.5	2,377.0	4.4	5.5	62.80	-161.0	179.6	191.3	182.8	8.55	22.380		
2,500.0	2,497.9	2,487.1	2,475.9	4.6	5.8	63.64	-169.8	186.2	200.1	191.2	8.92	22.428		
2,600.0	2,597.7	2,586.6	2,574.9	4.8	6.0	64.42	-178.6	192.8	209.0	199.7	9.30	22.474		
2,700.0	2,697.6	2,686.2	2,673.9	5.0	6.3	65.13	-187.4	199.4	217.8	208.2	9.67	22.518		
2,800.0	2,797.5	2,785.8	2,772.8	5.2	6.5	65.79	-196.3	206.0	226.7	216.7	10.05	22.560		
2,900.0	2,897.4	2,885.4	2,871.8	5.4	6.8	66.40	-205.1	212.6	235.7	225.2	10.43	22.600		
3,000.0	2,997.3	2,984.9	2,970.7	5.6	7.0	66.96	-213.9	219.2	244.6	233.8	10.81	22.639		
3,100.0	3,097.2	3,084.5	3,069.7	5.8	7.3	67.48	-222.7	225.8	253.6	242.4	11.18	22.675		
3,200.0	3,197.0	3,184.1	3,168.7	6.0	7.6	67.97	-231.5	232.4	262.6	251.0	11.56	22.710		
3,300.0	3,296.9	3,283.6	3,267.6	6.2	7.8	68.43	-240.3	239.0	271.6	259.7	11.94	22.743		
3,400.0	3,396.8	3,383.2	3,366.6	6.4	8.1	68.85	-249.1	245.6	280.6	268.3	12.32	22.775		
3,500.0	3,496.7	3,482.8	3,465.5	6.6	8.3	69.25	-257.9	252.2	289.7	277.0	12.70	22.805		
3,600.0	3,596.6	3,582.3	3,564.5	6.8	8.6	69.63	-266.7	258.9	298.7	285.7	13.08	22.834		
3,700.0	3,696.5	3,681.9	3,663.5	7.0	8.9	69.98	-275.5	265.5	307.8	294.3	13.46	22.862		
3,800.0	3,796.3	3,781.5	3,762.4	7.1	9.1	70.31	-284.3	272.1	316.9	303.0	13.85	22.888		
3,900.0	3,896.2	3,881.1	3,861.4	7.3	9.4	70.63	-293.1	278.7	326.0	311.8	14.23	22.914		
4,000.0	3,996.1	3,980.6	3,960.3	7.5	9.6	70.92	-301.9	285.3	335.1	320.5	14.61	22.938		
4,100.0	4,096.0	4,080.2	4,059.3	7.7	9.9	71.20	-310.8	291.9	344.2	329.2	14.99	22.961		
4,200.0	4,195.9	4,179.8	4,158.3	7.9	10.1	71.47	-319.6	298.5	353.3	337.9	15.37	22.983		
4,300.0	4,295.8	4,279.3	4,257.2	8.1	10.4	71.73	-328.4	305.1	362.4	346.7	15.75	23.004		
4,400.0	4,395.6	4,378.9	4,356.2	8.3	10.7	71.97	-337.2	311.7	371.6	355.4	16.14	23.025		
4,500.0	4,495.5	4,478.5	4,455.1	8.5	10.9	72.20	-346.0	318.3	380.7	364.2	16.52	23.044		
4,600.0	4,595.4	4,578.1	4,554.1	8.7	11.2	72.41	-354.8	324.9	389.8	372.9	16.90	23.063		
4,700.0	4,695.3	4,677.6	4,653.1	8.9	11.4	72.62	-363.6	331.5	399.0	381.7	17.29	23.082		
4,800.0	4,795.2	4,777.2	4,752.0	9.1	11.7	72.82	-372.4	338.1	408.1	390.5	17.67	23.099		
4,900.0	4,895.0	4,876.8	4,851.0	9.3	12.0	73.01	-381.2	344.8	417.3	399.2	18.05	23.116		
5,000.0	4,994.9	4,976.3	4,949.9	9.5	12.2	73.20	-390.0	351.4	426.5	408.0	18.44	23.132		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3O-32H-K268 - 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)				
5,100.0	5,094.8	5,075.9	5,048.9	9.7	12.5	73.37	-398.8	358.0	435.6	416.8	18.82	23.148		
5,200.0	5,194.7	5,175.5	5,147.9	9.9	12.7	73.54	-407.6	364.6	444.8	425.6	19.20	23.163		
5,300.0	5,294.6	5,275.0	5,246.8	10.1	13.0	73.70	-416.4	371.2	454.0	434.4	19.59	23.177		
5,400.0	5,394.5	5,374.6	5,345.8	10.2	13.3	73.85	-425.3	377.8	463.1	443.2	19.97	23.191		
5,500.0	5,494.3	5,474.2	5,444.7	10.4	13.5	74.00	-434.1	384.4	472.3	452.0	20.35	23.205		
5,600.0	5,594.2	5,573.8	5,543.7	10.6	13.8	74.14	-442.9	391.0	481.5	460.8	20.74	23.218		
5,700.0	5,694.1	5,673.3	5,642.7	10.8	14.0	74.28	-451.7	397.6	490.7	469.6	21.12	23.231		
5,800.0	5,794.0	5,772.9	5,741.6	11.0	14.3	74.41	-460.5	404.2	499.9	478.4	21.51	23.243		
7,200.0	7,163.6	7,539.2	7,449.5	13.9	16.8	-74.75	-394.1	518.3	450.0	423.3	26.69	16.863		
7,300.0	7,235.7	7,538.1	7,448.8	14.3	16.8	-94.05	-395.0	518.2	361.7	333.4	28.28	12.789		
7,400.0	7,294.8	7,510.0	7,429.0	14.9	16.9	-99.57	-414.8	516.9	281.9	252.9	28.99	9.725		
7,500.0	7,338.9	7,472.6	7,401.1	15.7	17.0	-97.33	-439.8	515.0	219.2	189.4	29.77	7.363		
7,600.0	7,366.9	7,430.8	7,368.2	16.6	17.2	-89.13	-465.4	512.8	187.7	156.9	30.80	6.093		
7,625.3	7,371.3	7,419.8	7,359.2	16.9	17.2	-86.24	-471.7	512.2	186.3	155.2	31.06	5.998 SF		
7,700.0	7,377.9	7,386.7	7,331.5	17.7	17.3	-76.23	-489.8	510.4	197.5	166.0	31.49	6.272		
7,800.0	7,378.0	7,350.0	7,299.7	18.8	17.4	-66.67	-507.8	508.3	241.0	209.4	31.60	7.627		
7,900.0	7,378.0	7,313.6	7,267.0	20.1	17.5	-58.24	-523.7	506.1	306.2	275.0	31.18	9.821		
8,000.0	7,378.0	7,287.9	7,243.3	21.4	17.5	-52.86	-533.6	504.5	383.5	352.6	30.97	12.382		
8,100.0	7,378.0	7,267.0	7,223.8	22.8	17.6	-48.86	-540.9	503.2	467.7	436.8	30.90	15.135		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - File 3P-32H-K268 - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	86.76	3.6	64.3	64.5						
100.0	100.0	100.0	100.0	0.2	0.2	86.76	3.6	64.3	64.5	64.1	0.30	212.229			
200.0	200.0	200.0	200.0	0.3	0.3	86.76	3.6	64.3	64.5	63.8	0.65	98.738 CC, ES			
300.0	300.0	299.1	299.1	0.5	0.5	87.25	3.1	65.0	65.1	64.1	1.00	65.048			
400.0	400.0	398.2	398.2	0.7	0.7	88.68	1.6	67.1	67.1	65.8	1.35	49.642			
500.0	500.0	497.2	497.1	0.8	0.9	90.87	-1.1	70.4	70.5	68.8	1.71	41.280			
600.0	600.0	596.0	595.7	1.0	1.1	6.43	-4.7	75.2	74.6	72.5	2.06	36.275			
700.0	700.0	694.7	694.1	1.2	1.3	9.77	-9.4	81.2	78.6	76.1	2.41	32.587			
800.0	799.9	793.3	792.2	1.4	1.5	13.57	-15.1	88.6	82.7	79.9	2.76	29.895			
900.0	899.7	891.6	890.0	1.6	1.7	17.54	-21.8	97.3	88.2	85.1	3.12	28.280			
1,000.0	999.6	989.7	987.2	1.8	2.0	21.36	-29.6	107.3	95.7	92.2	3.47	27.590			
1,100.0	1,099.5	1,087.8	1,084.2	1.9	2.3	24.86	-38.3	118.6	105.2	101.3	3.82	27.559 SF			
1,200.0	1,199.4	1,187.1	1,182.4	2.1	2.6	27.87	-47.4	130.5	115.5	111.3	4.16	27.731			
1,300.0	1,299.3	1,286.4	1,280.6	2.3	2.9	30.38	-56.6	142.3	126.1	121.6	4.51	27.936			
1,400.0	1,399.2	1,385.7	1,378.7	2.5	3.2	32.50	-65.7	154.2	136.9	132.0	4.86	28.148			
1,500.0	1,499.0	1,485.0	1,476.9	2.7	3.5	34.31	-74.9	166.0	147.8	142.6	5.21	28.356			
1,600.0	1,598.9	1,584.3	1,575.0	2.9	3.8	35.87	-84.0	177.8	158.9	153.4	5.57	28.553			
1,700.0	1,698.8	1,683.6	1,673.2	3.1	4.1	37.22	-93.2	189.7	170.1	164.2	5.92	28.737			
1,800.0	1,798.7	1,782.9	1,771.4	3.3	4.4	38.41	-102.3	201.5	181.4	175.1	6.27	28.906			
1,900.0	1,898.6	1,882.1	1,869.5	3.5	4.7	39.45	-111.5	213.4	192.7	186.1	6.63	29.061			
2,000.0	1,998.5	1,981.4	1,967.7	3.7	5.0	40.39	-120.6	225.2	204.1	197.1	6.99	29.203			
2,100.0	2,098.3	2,080.7	2,065.9	3.9	5.4	41.22	-129.8	237.0	215.5	208.2	7.35	29.333			
2,200.0	2,198.2	2,180.0	2,164.0	4.1	5.7	41.97	-138.9	248.9	227.0	219.3	7.71	29.452			
2,300.0	2,298.1	2,279.3	2,262.2	4.2	6.0	42.64	-148.1	260.7	238.5	230.5	8.07	29.561			
2,400.0	2,398.0	2,378.6	2,360.4	4.4	6.3	43.26	-157.2	272.6	250.1	241.6	8.43	29.661			
2,500.0	2,497.9	2,477.9	2,458.5	4.6	6.6	43.82	-166.4	284.4	261.6	252.8	8.79	29.752			
2,600.0	2,597.7	2,577.2	2,556.7	4.8	6.9	44.33	-175.5	296.2	273.2	264.1	9.16	29.836			
2,700.0	2,697.6	2,676.5	2,654.8	5.0	7.2	44.80	-184.7	308.1	284.8	275.3	9.52	29.914			
2,800.0	2,797.5	2,775.8	2,753.0	5.2	7.5	45.23	-193.8	319.9	296.5	286.6	9.89	29.986			
2,900.0	2,897.4	2,875.1	2,851.2	5.4	7.9	45.64	-203.0	331.8	308.1	297.9	10.25	30.052			
3,000.0	2,997.3	2,974.4	2,949.3	5.6	8.2	46.01	-212.1	343.6	319.8	309.1	10.62	30.114			
3,100.0	3,097.2	3,073.7	3,047.5	5.8	8.5	46.35	-221.3	355.4	331.4	320.4	10.99	30.171			
3,200.0	3,197.0	3,173.0	3,145.7	6.0	8.8	46.68	-230.4	367.3	343.1	331.8	11.35	30.224			
3,300.0	3,296.9	3,272.3	3,243.8	6.2	9.1	46.98	-239.6	379.1	354.8	343.1	11.72	30.274			
3,400.0	3,396.8	3,371.6	3,342.0	6.4	9.4	47.26	-248.7	391.0	366.5	354.4	12.09	30.321			
3,500.0	3,496.7	3,470.9	3,440.2	6.6	9.7	47.52	-257.9	402.8	378.2	365.8	12.46	30.364			
3,600.0	3,596.6	3,570.2	3,538.3	6.8	10.1	47.77	-267.0	414.6	389.9	377.1	12.82	30.405			
3,700.0	3,696.5	3,669.5	3,636.5	7.0	10.4	48.01	-276.2	426.5	401.6	388.5	13.19	30.444			
3,800.0	3,796.3	3,768.8	3,734.6	7.1	10.7	48.23	-285.3	438.3	413.4	399.8	13.56	30.480			
3,900.0	3,896.2	3,868.1	3,832.8	7.3	11.0	48.43	-294.5	450.2	425.1	411.2	13.93	30.514			
4,000.0	3,996.1	3,967.4	3,931.0	7.5	11.3	48.63	-303.6	462.0	436.9	422.6	14.30	30.546			
4,100.0	4,096.0	4,066.7	4,029.1	7.7	11.6	48.82	-312.8	473.8	448.6	433.9	14.67	30.576			
4,200.0	4,195.9	4,166.0	4,127.3	7.9	11.9	49.00	-321.9	485.7	460.3	445.3	15.04	30.605			
4,300.0	4,295.8	4,265.3	4,225.5	8.1	12.3	49.17	-331.1	497.5	472.1	456.7	15.41	30.632			
4,400.0	4,395.6	4,364.6	4,323.6	8.3	12.6	49.33	-340.2	509.4	483.9	468.1	15.78	30.658			
4,500.0	4,495.5	4,463.9	4,421.8	8.5	12.9	49.48	-349.4	521.2	495.6	479.5	16.15	30.683			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 8440-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		
12,100.0	7,378.0	7,452.0	7,452.0	89.5	13.0	-90.00	-5,380.4	523.3	477.2	374.9	102.27	4.666		
12,200.0	7,378.0	7,452.0	7,452.0	91.2	13.0	-90.00	-5,380.4	523.3	388.3	284.2	104.01	3.733		
12,300.0	7,378.0	7,452.0	7,452.0	92.9	13.0	-90.00	-5,380.4	523.3	306.2	200.5	105.75	2.896		
12,400.0	7,378.0	7,452.0	7,452.0	94.7	13.0	-90.00	-5,380.4	523.3	237.8	130.3	107.56	2.211		
12,500.0	7,378.0	7,452.0	7,452.0	96.4	13.0	-90.00	-5,380.4	523.3	196.7	87.3	109.36	1.798		
12,542.5	7,378.0	7,452.0	7,452.0	97.1	13.0	-90.00	-5,380.4	523.3	192.2	82.1	110.12	1.745	CC, ES, SF	
12,600.0	7,378.0	7,452.0	7,452.0	98.1	13.0	-90.00	-5,380.4	523.3	200.3	89.2	111.14	1.802		
12,700.0	7,378.0	7,452.0	7,452.0	99.9	13.0	-90.00	-5,380.4	523.3	247.2	134.3	112.88	2.190		
12,800.0	7,378.0	7,452.0	7,452.0	101.6	13.0	-90.00	-5,380.4	523.3	319.4	204.8	114.62	2.787		
12,900.0	7,378.0	7,452.0	7,452.0	103.4	13.0	-90.00	-5,380.4	523.3	403.7	287.3	116.36	3.469		
13,000.0	7,378.0	7,452.0	7,452.0	105.1	13.0	-90.00	-5,380.4	523.3	493.9	375.8	118.11	4.182		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 4996-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	61.44	185.8	341.3	388.6					
100.0	100.0	99.0	99.0	0.2	0.2	61.44	185.8	341.3	388.6	388.3	0.32	1,198.613		
200.0	200.0	199.0	199.0	0.3	0.3	61.44	185.8	341.3	388.6	387.9	0.67	577.547		
300.0	300.0	299.0	299.0	0.5	0.5	61.44	185.8	341.3	388.6	387.6	1.02	380.427		
400.0	400.0	399.0	399.0	0.7	0.7	61.44	185.8	341.3	388.6	387.2	1.37	283.625		
500.0	500.0	499.0	499.0	0.8	0.9	61.44	185.8	341.3	388.6	386.9	1.72	226.093		
600.0	600.0	599.0	599.0	1.0	1.0	-25.85	185.8	341.3	387.8	385.8	2.07	187.594		
700.0	700.0	699.0	699.0	1.2	1.2	-26.03	185.8	341.3	385.5	383.1	2.42	159.550		
800.0	799.9	798.9	798.9	1.4	1.4	-26.33	185.8	341.3	381.6	378.8	2.77	137.995		
900.0	899.7	898.7	898.7	1.6	1.6	-26.66	185.8	341.3	377.3	374.1	3.12	121.074		
1,000.0	999.6	998.6	998.6	1.8	1.7	-26.99	185.8	341.3	372.9	369.5	3.47	107.564		
1,100.0	1,099.5	1,098.5	1,098.5	1.9	1.9	-27.33	185.8	341.3	368.6	364.8	3.82	96.532		
1,200.0	1,199.4	1,198.4	1,198.4	2.1	2.1	-27.68	185.8	341.3	364.3	360.1	4.17	87.355		
1,300.0	1,299.3	1,298.3	1,298.3	2.3	2.3	-28.04	185.8	341.3	360.0	355.5	4.52	79.604		
1,400.0	1,399.2	1,398.2	1,398.2	2.5	2.4	-28.41	185.8	341.3	355.8	350.9	4.88	72.971		
1,500.0	1,499.0	1,498.0	1,498.0	2.7	2.6	-28.78	185.8	341.3	351.5	346.3	5.23	67.231		
1,600.0	1,598.9	1,597.9	1,597.9	2.9	2.8	-29.17	185.8	341.3	347.3	341.7	5.58	62.217		
1,700.0	1,698.8	1,697.8	1,697.8	3.1	3.0	-29.56	185.8	341.3	343.0	337.1	5.93	57.799		
1,800.0	1,798.7	1,797.7	1,797.7	3.3	3.1	-29.97	185.8	341.3	338.8	332.5	6.29	53.878		
1,900.0	1,898.6	1,897.6	1,897.6	3.5	3.3	-30.38	185.8	341.3	334.6	328.0	6.64	50.374		
2,000.0	1,998.5	1,997.5	1,997.5	3.7	3.5	-30.81	185.8	341.3	330.5	323.5	7.00	47.226		
2,100.0	2,098.3	2,097.3	2,097.3	3.9	3.7	-31.24	185.8	341.3	326.3	318.9	7.35	44.382		
2,200.0	2,198.2	2,197.2	2,197.2	4.1	3.8	-31.69	185.8	341.3	322.2	314.5	7.71	41.801		
2,300.0	2,298.1	2,297.1	2,297.1	4.2	4.0	-32.15	185.8	341.3	318.1	310.0	8.06	39.447		
2,400.0	2,398.0	2,397.0	2,397.0	4.4	4.2	-32.62	185.8	341.3	314.0	305.5	8.42	37.293		
2,500.0	2,497.9	2,496.9	2,496.9	4.6	4.3	-33.10	185.8	341.3	309.9	301.1	8.77	35.315		
2,600.0	2,597.7	2,596.7	2,596.7	4.8	4.5	-33.60	185.8	341.3	305.8	296.7	9.13	33.492		
2,700.0	2,697.6	2,696.6	2,696.6	5.0	4.7	-34.11	185.8	341.3	301.8	292.3	9.49	31.808		
2,800.0	2,797.5	2,796.5	2,796.5	5.2	4.9	-34.63	185.8	341.3	297.8	288.0	9.85	30.246		
2,900.0	2,897.4	2,896.4	2,896.4	5.4	5.0	-35.17	185.8	341.3	293.8	283.6	10.20	28.795		
3,000.0	2,997.3	2,996.3	2,996.3	5.6	5.2	-35.72	185.8	341.3	289.9	279.3	10.56	27.444		
3,100.0	3,097.2	3,096.2	3,096.2	5.8	5.4	-36.28	185.8	341.3	286.0	275.0	10.92	26.183		
3,200.0	3,197.0	3,196.0	3,196.0	6.0	5.6	-36.87	185.8	341.3	282.1	270.8	11.28	25.004		
3,300.0	3,296.9	3,295.9	3,295.9	6.2	5.7	-37.47	185.8	341.3	278.2	266.6	11.64	23.899		
3,400.0	3,396.8	3,395.8	3,395.8	6.4	5.9	-38.08	185.8	341.3	274.4	262.4	12.00	22.861		
3,500.0	3,496.7	3,495.7	3,495.7	6.6	6.1	-38.71	185.8	341.3	270.6	258.2	12.36	21.886		
3,600.0	3,596.6	3,595.6	3,595.6	6.8	6.3	-39.37	185.8	341.3	266.8	254.1	12.72	20.968		
3,700.0	3,696.5	3,695.5	3,695.5	7.0	6.4	-40.03	185.8	341.3	263.1	250.0	13.09	20.102		
3,800.0	3,796.3	3,795.3	3,795.3	7.1	6.6	-40.72	185.8	341.3	259.4	245.9	13.45	19.285		
3,900.0	3,896.2	3,895.2	3,895.2	7.3	6.8	-41.43	185.8	341.3	255.7	241.9	13.81	18.513		
4,000.0	3,996.1	3,995.1	3,995.1	7.5	7.0	-42.16	185.8	341.3	252.1	237.9	14.18	17.782		
4,100.0	4,096.0	4,095.0	4,095.0	7.7	7.1	-42.91	185.8	341.3	248.5	234.0	14.54	17.090		
4,200.0	4,195.9	4,194.9	4,194.9	7.9	7.3	-43.68	185.8	341.3	245.0	230.1	14.91	16.434		
4,300.0	4,295.8	4,294.8	4,294.8	8.1	7.5	-44.47	185.8	341.3	241.5	226.2	15.27	15.811		
4,400.0	4,395.6	4,394.6	4,394.6	8.3	7.7	-45.29	185.8	341.3	238.1	222.4	15.64	15.220		
4,500.0	4,495.5	4,494.5	4,494.5	8.5	7.8	-46.13	185.8	341.3	234.7	218.7	16.01	14.658		
4,600.0	4,595.4	4,594.4	4,594.4	8.7	8.0	-47.00	185.8	341.3	231.3	215.0	16.38	14.125		
4,700.0	4,695.3	4,694.3	4,694.3	8.9	8.2	-47.89	185.8	341.3	228.1	211.3	16.75	13.617		
4,800.0	4,795.2	4,794.2	4,794.2	9.1	8.3	-48.80	185.8	341.3	224.8	207.7	17.12	13.133		
4,900.0	4,895.0	4,894.0	4,894.0	9.3	8.5	-49.74	185.8	341.3	221.7	204.2	17.49	12.673		
5,000.0	4,994.9	4,993.9	4,993.9	9.5	8.7	-50.71	185.8	341.3	218.6	200.7	17.86	12.235		
5,008.7	5,003.6	4,996.0	4,996.0	9.5	8.7	-50.73	185.8	341.3	218.4	200.5	17.88	12.212 CC, ES, SF		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 4996-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,100.0	5,094.8	4,996.0	4,996.0	9.7	8.7	-50.73	185.8	341.3	236.7	218.6	18.05	13.110	
5,200.0	5,194.7	4,996.0	4,996.0	9.9	8.7	-50.73	185.8	341.3	290.3	272.0	18.24	15.914	
5,300.0	5,294.6	4,996.0	4,996.0	10.1	8.7	-50.73	185.8	341.3	364.0	345.6	18.43	19.755	
5,400.0	5,394.5	4,996.0	4,996.0	10.2	8.7	-50.73	185.8	341.3	448.1	429.4	18.61	24.072	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - PAQUETTE 14-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8375-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)				
13,100.0	7,378.0	7,422.0	7,422.0	106.8	13.0	90.00	-6,291.1	109.1	428.2	308.4	119.80	3.574		
13,200.0	7,378.0	7,422.0	7,422.0	108.6	13.0	90.00	-6,291.1	109.1	356.3	234.7	121.54	2.931		
13,300.0	7,378.0	7,422.0	7,422.0	110.3	13.0	90.00	-6,291.1	109.1	300.8	177.5	123.28	2.440		
13,400.0	7,378.0	7,422.0	7,422.0	112.1	13.0	90.00	-6,291.1	109.1	272.1	147.1	125.03	2.177		
13,432.1	7,378.0	7,422.0	7,422.0	112.6	13.0	90.00	-6,291.1	109.1	270.2	144.7	125.59	2.152	CC, ES, SF	
13,500.0	7,378.0	7,422.0	7,422.0	113.8	13.0	90.00	-6,291.1	109.1	278.6	151.9	126.77	2.198		
13,600.0	7,378.0	7,422.0	7,422.0	115.6	13.0	90.00	-6,291.1	109.1	318.1	189.6	128.52	2.475		
13,700.0	7,378.0	7,422.0	7,422.0	117.3	13.0	90.00	-6,291.1	109.1	380.5	250.2	130.26	2.921		
13,800.0	7,378.0	7,422.0	7,422.0	119.1	13.0	90.00	-6,291.1	109.1	456.4	324.4	132.01	3.458		
13,822.6	7,378.0	7,422.0	7,422.0	119.4	13.0	90.00	-6,291.1	109.1	474.8	342.4	132.40	3.586		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-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		
1,000.0	999.6	902.6	902.6	1.8	1.6	-15.62	157.7	489.9	497.8	494.5	3.30	150.880		
1,100.0	1,099.5	1,002.5	1,002.5	1.9	1.7	-15.77	157.7	489.9	493.1	489.5	3.65	135.133		
1,200.0	1,199.4	1,102.4	1,102.4	2.1	1.9	-15.93	157.7	489.9	488.4	484.4	4.00	122.139		
1,300.0	1,299.3	1,202.3	1,202.3	2.3	2.1	-16.09	157.7	489.9	483.8	479.4	4.35	111.235		
1,400.0	1,399.2	1,302.2	1,302.2	2.5	2.3	-16.25	157.7	489.9	479.1	474.4	4.70	101.954		
1,500.0	1,499.0	1,402.0	1,402.0	2.7	2.4	-16.41	157.7	489.9	474.5	469.4	5.05	93.960		
1,600.0	1,598.9	1,501.9	1,501.9	2.9	2.6	-16.58	157.7	489.9	469.8	464.4	5.40	87.002		
1,700.0	1,698.8	1,601.8	1,601.8	3.1	2.8	-16.75	157.7	489.9	465.2	459.4	5.75	80.892		
1,800.0	1,798.7	1,701.7	1,701.7	3.3	3.0	-16.92	157.7	489.9	460.5	454.4	6.10	75.483		
1,900.0	1,898.6	1,801.6	1,801.6	3.5	3.1	-17.10	157.7	489.9	455.9	449.4	6.45	70.662		
2,000.0	1,998.5	1,901.5	1,901.5	3.7	3.3	-17.28	157.7	489.9	451.3	444.5	6.80	66.337		
2,100.0	2,098.3	2,001.3	2,001.3	3.9	3.5	-17.46	157.7	489.9	446.6	439.5	7.15	62.437		
2,200.0	2,198.2	2,101.2	2,101.2	4.1	3.7	-17.65	157.7	489.9	442.0	434.5	7.50	58.901		
2,300.0	2,298.1	2,201.1	2,201.1	4.2	3.8	-17.85	157.7	489.9	437.4	429.5	7.86	55.681		
2,400.0	2,398.0	2,301.0	2,301.0	4.4	4.0	-18.04	157.7	489.9	432.8	424.6	8.21	52.737		
2,500.0	2,497.9	2,400.9	2,400.9	4.6	4.2	-18.24	157.7	489.9	428.2	419.6	8.56	50.034		
2,600.0	2,597.7	2,500.7	2,500.7	4.8	4.4	-18.45	157.7	489.9	423.6	414.7	8.91	47.544		
2,700.0	2,697.6	2,600.6	2,600.6	5.0	4.5	-18.66	157.7	489.9	419.0	409.7	9.26	45.243		
2,800.0	2,797.5	2,700.5	2,700.5	5.2	4.7	-18.87	157.7	489.9	414.4	404.8	9.61	43.111		
2,900.0	2,897.4	2,800.4	2,800.4	5.4	4.9	-19.09	157.7	489.9	409.8	399.8	9.96	41.129		
3,000.0	2,997.3	2,900.3	2,900.3	5.6	5.1	-19.32	157.7	489.9	405.2	394.9	10.32	39.282		
3,100.0	3,097.2	3,000.2	3,000.2	5.8	5.2	-19.54	157.7	489.9	400.7	390.0	10.67	37.558		
3,200.0	3,197.0	3,100.0	3,100.0	6.0	5.4	-19.78	157.7	489.9	396.1	385.1	11.02	35.943		
3,300.0	3,296.9	3,199.9	3,199.9	6.2	5.6	-20.02	157.7	489.9	391.5	380.2	11.37	34.429		
3,400.0	3,396.8	3,299.8	3,299.8	6.4	5.8	-20.26	157.7	489.9	387.0	375.3	11.72	33.006		
3,500.0	3,496.7	3,399.7	3,399.7	6.6	5.9	-20.52	157.7	489.9	382.4	370.4	12.08	31.666		
3,600.0	3,596.6	3,499.6	3,499.6	6.8	6.1	-20.77	157.7	489.9	377.9	365.5	12.43	30.403		
3,700.0	3,696.5	3,599.5	3,599.5	7.0	6.3	-21.04	157.7	489.9	373.4	360.6	12.78	29.209		
3,800.0	3,796.3	3,699.3	3,699.3	7.1	6.5	-21.31	157.7	489.9	368.9	355.7	13.14	28.080		
3,900.0	3,896.2	3,799.2	3,799.2	7.3	6.6	-21.58	157.7	489.9	364.3	350.9	13.49	27.010		
4,000.0	3,996.1	3,899.1	3,899.1	7.5	6.8	-21.87	157.7	489.9	359.8	346.0	13.84	25.994		
4,100.0	4,096.0	3,999.0	3,999.0	7.7	7.0	-22.16	157.7	489.9	355.3	341.2	14.20	25.030		
4,200.0	4,195.9	4,098.9	4,098.9	7.9	7.2	-22.46	157.7	489.9	350.9	336.3	14.55	24.113		
4,300.0	4,295.8	4,198.8	4,198.8	8.1	7.3	-22.76	157.7	489.9	346.4	331.5	14.90	23.240		
4,400.0	4,395.6	4,298.6	4,298.6	8.3	7.5	-23.08	157.7	489.9	341.9	326.7	15.26	22.407		
4,500.0	4,495.5	4,398.5	4,398.5	8.5	7.7	-23.40	157.7	489.9	337.5	321.9	15.61	21.613		
4,600.0	4,595.4	4,498.4	4,498.4	8.7	7.9	-23.73	157.7	489.9	333.0	317.1	15.97	20.854		
4,700.0	4,695.3	4,598.3	4,598.3	8.9	8.0	-24.07	157.7	489.9	328.6	312.3	16.32	20.129		
4,800.0	4,795.2	4,698.2	4,698.2	9.1	8.2	-24.42	157.7	489.9	324.2	307.5	16.68	19.435		
4,900.0	4,895.0	4,798.0	4,798.0	9.3	8.4	-24.78	157.7	489.9	319.8	302.7	17.04	18.770		
5,000.0	4,994.9	4,897.9	4,897.9	9.5	8.5	-25.15	157.7	489.9	315.4	298.0	17.39	18.133		
5,100.0	5,094.8	4,997.8	4,997.8	9.7	8.7	-25.53	157.7	489.9	311.0	293.2	17.75	17.522		
5,200.0	5,194.7	5,097.7	5,097.7	9.9	8.9	-25.92	157.7	489.9	306.6	288.5	18.11	16.935		
5,300.0	5,294.6	5,197.6	5,197.6	10.1	9.1	-26.32	157.7	489.9	302.3	283.8	18.46	16.372		
5,400.0	5,394.5	5,297.5	5,297.5	10.2	9.2	-26.73	157.7	489.9	297.9	279.1	18.82	15.830		
5,500.0	5,494.3	5,397.3	5,397.3	10.4	9.4	-27.16	157.7	489.9	293.6	274.4	19.18	15.309		
5,600.0	5,594.2	5,497.2	5,497.2	10.6	9.6	-27.60	157.7	489.9	289.3	269.8	19.54	14.807		
5,700.0	5,694.1	5,597.1	5,597.1	10.8	9.8	-28.05	157.7	489.9	285.0	265.1	19.90	14.325		
5,800.0	5,794.0	5,697.0	5,697.0	11.0	9.9	-28.51	157.7	489.9	280.7	260.5	20.26	13.859		
5,900.0	5,893.9	5,796.9	5,796.9	11.2	10.1	-28.99	157.7	489.9	276.5	255.9	20.62	13.411		
6,000.0	5,993.8	5,896.8	5,896.8	11.4	10.3	-29.49	157.7	489.9	272.3	251.3	20.98	12.979		
6,100.0	6,093.6	5,996.6	5,996.6	11.6	10.5	-30.00	157.7	489.9	268.1	246.7	21.34	12.562		

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 File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8140-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
6,200.0	6,193.5	6,096.5	6,096.5	11.8	10.6	-30.52	157.7	489.9	263.9	242.2	21.70	12.159		
6,300.0	6,293.4	6,196.4	6,196.4	12.0	10.8	-31.07	157.7	489.9	259.7	237.6	22.06	11.771		
6,400.0	6,393.3	6,296.3	6,296.3	12.2	11.0	-31.63	157.7	489.9	255.6	233.1	22.43	11.395		
6,500.0	6,493.2	6,396.2	6,396.2	12.4	11.2	-32.21	157.7	489.9	251.4	228.6	22.79	11.033		
6,600.0	6,593.0	6,496.0	6,496.0	12.6	11.3	-32.80	157.7	489.9	247.4	224.2	23.16	10.682		
6,700.0	6,692.9	6,595.9	6,595.9	12.8	11.5	-33.42	157.7	489.9	243.3	219.8	23.52	10.343		
6,800.0	6,792.8	6,695.8	6,695.8	13.0	11.7	-34.06	157.7	489.9	239.3	215.4	23.89	10.016		
6,845.6	6,838.3	6,741.3	6,741.3	13.0	11.8	-91.99	157.7	489.9	238.4	214.3	24.08	9.901 CC, ES		
6,900.0	6,892.4	6,795.4	6,795.4	13.2	11.9	-110.96	157.7	489.9	239.5	215.2	24.26	9.869 SF		
7,000.0	6,989.3	6,892.3	6,892.3	13.3	12.0	-124.01	157.7	489.9	251.5	227.0	24.49	10.273		
7,100.0	7,080.6	6,983.6	6,983.6	13.6	12.2	-131.43	157.7	489.9	277.9	253.5	24.41	11.387		
7,200.0	7,163.6	7,066.6	7,066.6	13.9	12.3	-136.72	157.7	489.9	320.3	296.3	23.96	13.365		
7,300.0	7,235.7	7,138.7	7,138.7	14.3	12.5	-139.77	157.7	489.9	378.5	355.2	23.29	16.255		
7,400.0	7,294.8	7,197.8	7,197.8	14.9	12.6	-140.08	157.7	489.9	450.8	428.1	22.73	19.831		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 738-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,000.0	7,378.0	7,485.7	7,393.0	21.4	20.6	93.04	-1,247.0	231.7	412.6	376.6	35.92	11.487		
8,100.0	7,378.0	7,483.7	7,391.0	22.8	20.6	91.82	-1,247.1	231.7	316.1	278.7	37.34	8.464		
8,200.0	7,378.0	7,481.6	7,389.0	24.2	20.6	90.60	-1,247.1	231.8	222.7	183.9	38.81	5.740		
8,300.0	7,378.0	7,479.6	7,387.0	25.7	20.6	89.39	-1,247.2	231.9	138.9	98.6	40.29	3.448		
8,400.0	7,378.0	7,477.7	7,385.0	27.2	20.6	88.19	-1,247.2	231.9	94.8	53.0	41.79	2.268		
8,401.6	7,378.0	7,477.6	7,385.0	27.2	20.6	88.17	-1,247.2	231.9	94.8	52.9	41.82	2.266 CC, ES, SF		
8,500.0	7,378.0	7,475.7	7,383.1	28.7	20.6	87.01	-1,247.2	232.0	136.6	93.3	43.30	3.154		
8,600.0	7,378.0	7,473.8	7,381.1	30.3	20.6	85.84	-1,247.3	232.1	219.8	175.0	44.82	4.905		
8,700.0	7,378.0	7,471.8	7,379.2	31.8	20.6	84.69	-1,247.3	232.1	313.0	266.7	46.33	6.756		
8,800.0	7,378.0	7,470.0	7,377.3	33.4	20.6	83.55	-1,247.4	232.2	409.4	361.6	47.84	8.558		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - SCHRINER 11-5 (EXISTING) - KERR-MCGEE WELL - NO SURVEYS												Offset Site Error:	0.0 ft
Survey Program: 8376-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
12,600.0	7,378.0	7,437.0	7,437.0	98.1	13.0	90.00	-5,708.2	-70.0	481.8	370.7	111.11	4.336	
12,700.0	7,378.0	7,437.0	7,437.0	99.9	13.0	90.00	-5,708.2	-70.0	440.4	327.6	112.85	3.903	
12,800.0	7,378.0	7,437.0	7,437.0	101.6	13.0	90.00	-5,708.2	-70.0	419.4	304.8	114.60	3.660	
12,840.4	7,378.0	7,437.0	7,437.0	102.3	13.0	90.00	-5,708.2	-70.0	417.4	302.1	115.30	3.620	CC, ES, SF
12,900.0	7,378.0	7,437.0	7,437.0	103.4	13.0	90.00	-5,708.2	-70.0	421.7	305.3	116.34	3.624	
13,000.0	7,378.0	7,437.0	7,437.0	105.1	13.0	90.00	-5,708.2	-70.0	446.9	328.8	118.08	3.785	
13,100.0	7,378.0	7,437.0	7,437.0	106.8	13.0	90.00	-5,708.2	-70.0	491.5	371.7	119.82	4.102	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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-R68W (File) - WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis			
6,800.0	6,792.8	6,882.1	6,764.1	13.0	17.7	-53.77	426.5	571.6	494.6	464.3	30.30	16.325		
6,833.2	6,826.0	6,912.6	6,792.8	13.0	17.9	-103.23	431.8	562.5	493.8	463.2	30.58	16,145 CC, ES		
6,900.0	6,892.4	6,973.0	6,849.5	13.2	18.3	-132.99	442.1	544.5	496.9	465.9	30.97	16.043 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well File 3G-32H-K268
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4971.0ft (Original Well Elev)
Reference Site:	S32-T2N-R68W (File)	MD Reference:	WELL @ 4971.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	File 3G-32H-K268	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 @ 4971.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

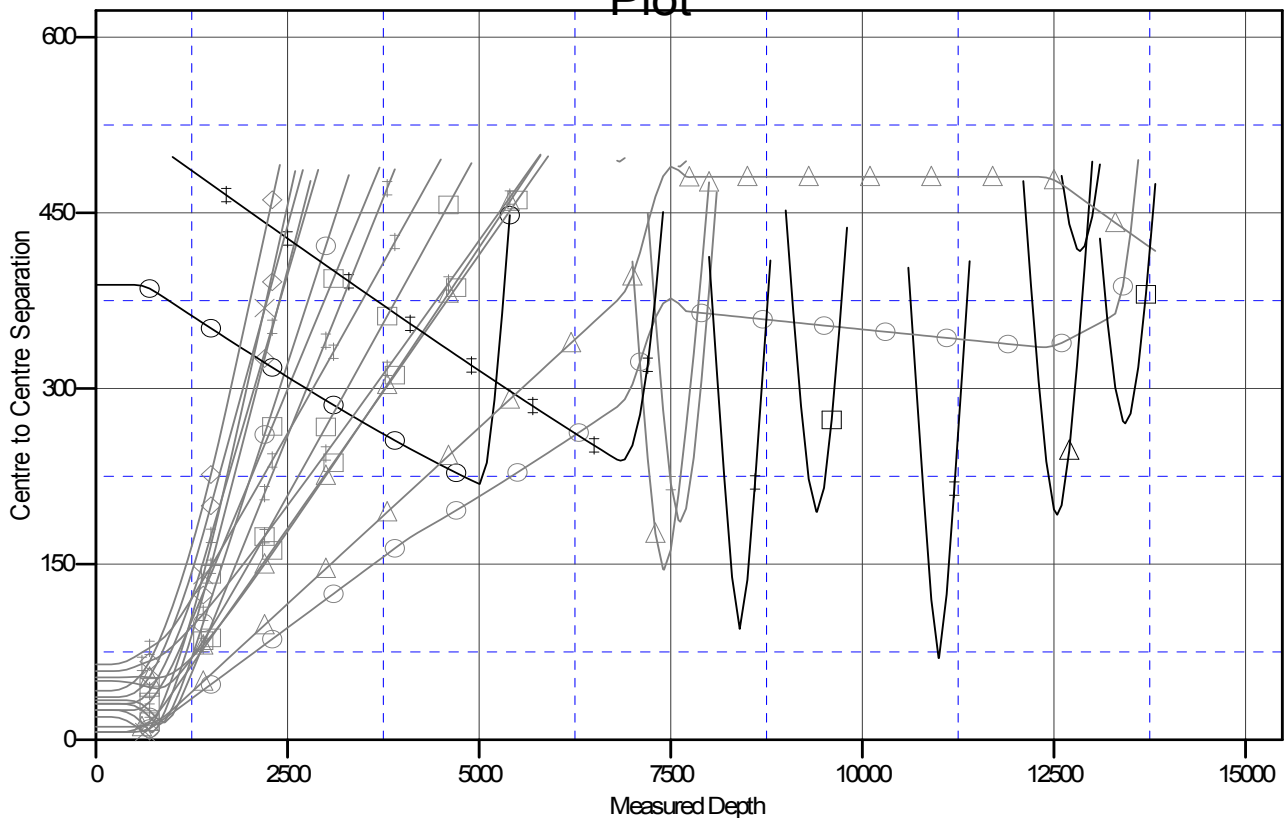
Central Meridian is -105.500000 °

Coordinates are relative to: File 3G-32H-K268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

Ladder Plot



LEGEND

1 V0	File 3K-32H-K268, Hz, Plan #1 V0	RAY NELSON 23-32 (EXISTING), EN
ENCANA WELL, Plan #1 V1	File 3J-32H-K268, Hz, Plan #1 V0	File 3M-32H-K268, Hz, Plan #1 V0
ENCANA WELL, NOSURVEYS V0	NELSON 4 (EXISTING), TEXAS TEA WELL, NOSURVEYS V0	File 3B-32H-K268, Hz, Plan #1 V0
1 V0	GENE 11-5 (EXISTING), KERR-MCGEE WELL, NOSURVEYS V0	File 3A-32H-K268, Hz, Plan #1 V0
1 V0	File 3O-32H-K268, Hz, Plan #1 V0	File 3I-32H-K268, Hz, Plan #1 V0
1 V0	BROWN 5-3 (EXISTING), ENCANA WELL, NOSURVEYS V0	File 3H-32H-K268, Hz, Plan #1 V0
1 V0	SCHRINER 11-5 (EXISTING), KERR-MCGEE WELL, NOSURVEYS V0	RAY NELSON 24-32 (EXISTING), EN
1 V0	File 3P-32H-K268, Hz, Plan #1 V0	PAQUETTE 14-5 (EXISTING), KERR

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