

## Planning Report

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

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 3H-32H-K268					
Well Position	+N/-S	0.0 ft	Northing:	1,276,920.93 ft	Latitude:	40.092580
	+E/-W	0.0 ft	Easting:	3,131,205.33 ft	Longitude:	-105.031050
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,958.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/28/2013	8.71	66.69	52,726

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

<b>Plan Sections</b>										
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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
963.3	6.13	85.56	962.1	2.5	32.7	1.00	1.00	0.00	85.56	
7,067.7	6.13	85.56	7,031.6	53.0	682.9	0.00	0.00	0.00	0.00	
7,972.4	90.00	180.00	7,606.0	-519.9	744.4	10.00	9.27	10.44	94.42	
14,122.4	90.00	180.00	7,606.0	-6,669.9	744.4	0.00	0.00	0.00	0.00	File 3H-32H-K268 PB

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<b>Site:</b>	S32-T2N-R68W (File)	<b>North Reference:</b>	True
<b>Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350'
400.0	0.50	85.56	400.0	0.0	0.2	0.0	1.00	1.00	
500.0	1.50	85.56	500.0	0.2	2.0	-0.2	1.00	1.00	
600.0	2.50	85.56	599.9	0.4	5.4	-0.4	1.00	1.00	
700.0	3.50	85.56	699.8	0.8	10.7	-0.8	1.00	1.00	
800.0	4.50	85.56	799.5	1.4	17.6	-1.4	1.00	1.00	
900.0	5.50	85.56	899.2	2.0	26.3	-2.0	1.00	1.00	
963.3	6.13	85.56	962.1	2.5	32.7	-2.5	1.00	1.00	EOB; Inc=6.13°
1,000.0	6.13	85.56	998.6	2.8	36.6	-2.8	0.00	0.00	
1,100.0	6.13	85.56	1,098.0	3.7	47.3	-3.7	0.00	0.00	
1,200.0	6.13	85.56	1,197.5	4.5	57.9	-4.5	0.00	0.00	
1,300.0	6.13	85.56	1,296.9	5.3	68.6	-5.3	0.00	0.00	
1,400.0	6.13	85.56	1,396.3	6.2	79.2	-6.2	0.00	0.00	
1,500.0	6.13	85.56	1,495.8	7.0	89.9	-7.0	0.00	0.00	
1,600.0	6.13	85.56	1,595.2	7.8	100.5	-7.8	0.00	0.00	
1,700.0	6.13	85.56	1,694.6	8.6	111.2	-8.6	0.00	0.00	
1,800.0	6.13	85.56	1,794.0	9.5	121.8	-9.5	0.00	0.00	
1,900.0	6.13	85.56	1,893.5	10.3	132.5	-10.3	0.00	0.00	
2,000.0	6.13	85.56	1,992.9	11.1	143.1	-11.1	0.00	0.00	
2,100.0	6.13	85.56	2,092.3	11.9	153.8	-11.9	0.00	0.00	
2,200.0	6.13	85.56	2,191.8	12.8	164.4	-12.8	0.00	0.00	
2,300.0	6.13	85.56	2,291.2	13.6	175.1	-13.6	0.00	0.00	
2,400.0	6.13	85.56	2,390.6	14.4	185.7	-14.4	0.00	0.00	
2,500.0	6.13	85.56	2,490.0	15.3	196.4	-15.3	0.00	0.00	
2,600.0	6.13	85.56	2,589.5	16.1	207.0	-16.1	0.00	0.00	
2,700.0	6.13	85.56	2,688.9	16.9	217.7	-16.9	0.00	0.00	
2,800.0	6.13	85.56	2,788.3	17.7	228.3	-17.7	0.00	0.00	
2,900.0	6.13	85.56	2,887.7	18.6	239.0	-18.6	0.00	0.00	
3,000.0	6.13	85.56	2,987.2	19.4	249.6	-19.4	0.00	0.00	
3,100.0	6.13	85.56	3,086.6	20.2	260.3	-20.2	0.00	0.00	
3,200.0	6.13	85.56	3,186.0	21.0	270.9	-21.0	0.00	0.00	
3,300.0	6.13	85.56	3,285.5	21.9	281.6	-21.9	0.00	0.00	
3,400.0	6.13	85.56	3,384.9	22.7	292.2	-22.7	0.00	0.00	
3,500.0	6.13	85.56	3,484.3	23.5	302.9	-23.5	0.00	0.00	
3,600.0	6.13	85.56	3,583.7	24.3	313.5	-24.3	0.00	0.00	
3,700.0	6.13	85.56	3,683.2	25.2	324.2	-25.2	0.00	0.00	
3,800.0	6.13	85.56	3,782.6	26.0	334.8	-26.0	0.00	0.00	
3,900.0	6.13	85.56	3,882.0	26.8	345.5	-26.8	0.00	0.00	
4,000.0	6.13	85.56	3,981.5	27.7	356.1	-27.7	0.00	0.00	
4,100.0	6.13	85.56	4,080.9	28.5	366.8	-28.5	0.00	0.00	
4,200.0	6.13	85.56	4,180.3	29.3	377.4	-29.3	0.00	0.00	
4,300.0	6.13	85.56	4,279.7	30.1	388.1	-30.1	0.00	0.00	
4,347.5	6.13	85.56	4,327.0	30.5	393.1	-30.5	0.00	0.00	Sussex
4,400.0	6.13	85.56	4,379.2	31.0	398.7	-31.0	0.00	0.00	
4,500.0	6.13	85.56	4,478.6	31.8	409.4	-31.8	0.00	0.00	
4,600.0	6.13	85.56	4,578.0	32.6	420.0	-32.6	0.00	0.00	
4,630.2	6.13	85.56	4,608.0	32.9	423.2	-32.9	0.00	0.00	Sussex Marker

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<b>Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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
4,700.0	6.13	85.56	4,677.4	33.4	430.7	-33.4	0.00	0.00	
4,800.0	6.13	85.56	4,776.9	34.3	441.3	-34.3	0.00	0.00	
4,900.0	6.13	85.56	4,876.3	35.1	452.0	-35.1	0.00	0.00	
4,923.8	6.13	85.56	4,900.0	35.3	454.5	-35.3	0.00	0.00	Shannon
5,000.0	6.13	85.56	4,975.7	35.9	462.6	-35.9	0.00	0.00	
5,100.0	6.13	85.56	5,075.2	36.8	473.3	-36.8	0.00	0.00	
5,200.0	6.13	85.56	5,174.6	37.6	483.9	-37.6	0.00	0.00	
5,300.0	6.13	85.56	5,274.0	38.4	494.6	-38.4	0.00	0.00	
5,400.0	6.13	85.56	5,373.4	39.2	505.2	-39.2	0.00	0.00	
5,500.0	6.13	85.56	5,472.9	40.1	515.9	-40.1	0.00	0.00	
5,600.0	6.13	85.56	5,572.3	40.9	526.5	-40.9	0.00	0.00	
5,700.0	6.13	85.56	5,671.7	41.7	537.2	-41.7	0.00	0.00	
5,800.0	6.13	85.56	5,771.2	42.5	547.8	-42.5	0.00	0.00	
5,900.0	6.13	85.56	5,870.6	43.4	558.5	-43.4	0.00	0.00	
6,000.0	6.13	85.56	5,970.0	44.2	569.1	-44.2	0.00	0.00	
6,100.0	6.13	85.56	6,069.4	45.0	579.8	-45.0	0.00	0.00	
6,200.0	6.13	85.56	6,168.9	45.9	590.4	-45.9	0.00	0.00	
6,300.0	6.13	85.56	6,268.3	46.7	601.1	-46.7	0.00	0.00	
6,400.0	6.13	85.56	6,367.7	47.5	611.8	-47.5	0.00	0.00	
6,500.0	6.13	85.56	6,467.1	48.3	622.4	-48.3	0.00	0.00	
6,600.0	6.13	85.56	6,566.6	49.2	633.1	-49.2	0.00	0.00	
6,700.0	6.13	85.56	6,666.0	50.0	643.7	-50.0	0.00	0.00	
6,800.0	6.13	85.56	6,765.4	50.8	654.4	-50.8	0.00	0.00	
6,834.8	6.13	85.56	6,800.0	51.1	658.1	-51.1	0.00	0.00	Teepee Buttes (*if present)
6,900.0	6.13	85.56	6,864.9	51.6	665.0	-51.6	0.00	0.00	
7,000.0	6.13	85.56	6,964.3	52.5	675.7	-52.5	0.00	0.00	
7,067.7	6.13	85.56	7,031.6	53.0	682.9	-53.0	0.00	0.00	Start build/turn @ 7067' MD
7,100.0	6.70	114.33	7,063.7	52.4	686.3	-52.4	10.00	1.77	
7,200.0	14.12	154.80	7,162.1	38.9	696.8	-38.9	10.00	7.42	
7,246.8	18.44	161.27	7,207.0	26.7	701.7	-26.7	10.00	9.23	Sharon Springs
7,300.0	23.52	165.75	7,256.7	8.5	707.0	-8.5	10.00	9.54	
7,358.4	29.19	168.95	7,309.0	-16.9	712.6	16.9	10.00	9.70	Niobrara
7,400.0	33.26	170.60	7,344.6	-38.1	716.4	38.1	10.00	9.79	
7,428.5	36.06	171.54	7,368.0	-54.1	718.9	54.1	10.00	9.82	B Chalk
7,471.8	40.32	172.75	7,402.0	-80.6	722.5	80.6	10.00	9.85	B Marl
7,500.0	43.11	173.43	7,423.1	-99.2	724.8	99.2	10.00	9.87	
7,562.0	49.24	174.70	7,466.0	-143.7	729.4	143.7	10.00	9.89	C Chalk
7,600.0	53.00	175.37	7,489.8	-173.2	732.0	173.2	10.00	9.91	
7,615.5	54.54	175.62	7,499.0	-185.6	732.9	185.6	10.00	9.91	C Marl
7,700.0	62.92	176.86	7,542.8	-257.6	737.6	257.6	10.00	9.92	
7,788.8	71.75	177.98	7,577.0	-339.4	741.3	339.4	10.00	9.93	Ft. Hayes
7,800.0	72.86	178.11	7,580.4	-350.1	741.7	350.1	10.00	9.94	
7,864.9	79.31	178.84	7,596.0	-413.0	743.3	413.0	10.00	9.94	Codell
7,900.0	82.80	179.22	7,601.5	-447.7	743.9	447.7	10.00	9.94	
7,972.4	90.00	180.00	7,606.0	-519.9	744.4	519.9	10.00	9.94	LP @ 7606' TVD; 90°
8,000.0	90.00	180.00	7,606.0	-547.5	744.4	547.5	0.00	0.00	
8,100.0	90.00	180.00	7,606.0	-647.5	744.4	647.5	0.00	0.00	
8,200.0	90.00	180.00	7,606.0	-747.5	744.4	747.5	0.00	0.00	
8,300.0	90.00	180.00	7,606.0	-847.5	744.4	847.5	0.00	0.00	
8,400.0	90.00	180.00	7,606.0	-947.5	744.4	947.5	0.00	0.00	
8,500.0	90.00	180.00	7,606.0	-1,047.5	744.4	1,047.5	0.00	0.00	
8,600.0	90.00	180.00	7,606.0	-1,147.5	744.4	1,147.5	0.00	0.00	

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File)	<b>North Reference:</b>	True
<b>Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,700.0	90.00	180.00	7,606.0	-1,247.5	744.4	1,247.5	0.00	0.00	
8,800.0	90.00	180.00	7,606.0	-1,347.5	744.4	1,347.5	0.00	0.00	
8,900.0	90.00	180.00	7,606.0	-1,447.5	744.4	1,447.5	0.00	0.00	
9,000.0	90.00	180.00	7,606.0	-1,547.5	744.4	1,547.5	0.00	0.00	
9,100.0	90.00	180.00	7,606.0	-1,647.5	744.4	1,647.5	0.00	0.00	
9,200.0	90.00	180.00	7,606.0	-1,747.5	744.4	1,747.5	0.00	0.00	
9,300.0	90.00	180.00	7,606.0	-1,847.5	744.4	1,847.5	0.00	0.00	
9,400.0	90.00	180.00	7,606.0	-1,947.5	744.4	1,947.5	0.00	0.00	
9,500.0	90.00	180.00	7,606.0	-2,047.5	744.4	2,047.5	0.00	0.00	
9,600.0	90.00	180.00	7,606.0	-2,147.5	744.4	2,147.5	0.00	0.00	
9,700.0	90.00	180.00	7,606.0	-2,247.5	744.4	2,247.5	0.00	0.00	
9,800.0	90.00	180.00	7,606.0	-2,347.5	744.4	2,347.5	0.00	0.00	
9,900.0	90.00	180.00	7,606.0	-2,447.5	744.4	2,447.5	0.00	0.00	
10,000.0	90.00	180.00	7,606.0	-2,547.5	744.4	2,547.5	0.00	0.00	
10,100.0	90.00	180.00	7,606.0	-2,647.5	744.4	2,647.5	0.00	0.00	
10,200.0	90.00	180.00	7,606.0	-2,747.5	744.4	2,747.5	0.00	0.00	
10,300.0	90.00	180.00	7,606.0	-2,847.5	744.4	2,847.5	0.00	0.00	
10,400.0	90.00	180.00	7,606.0	-2,947.5	744.4	2,947.5	0.00	0.00	
10,500.0	90.00	180.00	7,606.0	-3,047.5	744.4	3,047.5	0.00	0.00	
10,600.0	90.00	180.00	7,606.0	-3,147.5	744.4	3,147.5	0.00	0.00	
10,700.0	90.00	180.00	7,606.0	-3,247.5	744.4	3,247.5	0.00	0.00	
10,800.0	90.00	180.00	7,606.0	-3,347.5	744.4	3,347.5	0.00	0.00	
10,900.0	90.00	180.00	7,606.0	-3,447.5	744.4	3,447.5	0.00	0.00	
11,000.0	90.00	180.00	7,606.0	-3,547.5	744.4	3,547.5	0.00	0.00	
11,100.0	90.00	180.00	7,606.0	-3,647.5	744.4	3,647.5	0.00	0.00	
11,200.0	90.00	180.00	7,606.0	-3,747.5	744.4	3,747.5	0.00	0.00	
11,300.0	90.00	180.00	7,606.0	-3,847.5	744.4	3,847.5	0.00	0.00	
11,400.0	90.00	180.00	7,606.0	-3,947.5	744.4	3,947.5	0.00	0.00	
11,500.0	90.00	180.00	7,606.0	-4,047.5	744.4	4,047.5	0.00	0.00	
11,600.0	90.00	180.00	7,606.0	-4,147.5	744.4	4,147.5	0.00	0.00	
11,700.0	90.00	180.00	7,606.0	-4,247.5	744.4	4,247.5	0.00	0.00	
11,800.0	90.00	180.00	7,606.0	-4,347.5	744.4	4,347.5	0.00	0.00	
11,900.0	90.00	180.00	7,606.0	-4,447.5	744.4	4,447.5	0.00	0.00	
12,000.0	90.00	180.00	7,606.0	-4,547.5	744.4	4,547.5	0.00	0.00	
12,100.0	90.00	180.00	7,606.0	-4,647.5	744.4	4,647.5	0.00	0.00	
12,200.0	90.00	180.00	7,606.0	-4,747.5	744.4	4,747.5	0.00	0.00	
12,300.0	90.00	180.00	7,606.0	-4,847.5	744.4	4,847.5	0.00	0.00	
12,400.0	90.00	180.00	7,606.0	-4,947.5	744.4	4,947.5	0.00	0.00	
12,500.0	90.00	180.00	7,606.0	-5,047.5	744.4	5,047.5	0.00	0.00	
12,600.0	90.00	180.00	7,606.0	-5,147.5	744.4	5,147.5	0.00	0.00	
12,700.0	90.00	180.00	7,606.0	-5,247.5	744.4	5,247.5	0.00	0.00	
12,800.0	90.00	180.00	7,606.0	-5,347.5	744.4	5,347.5	0.00	0.00	
12,900.0	90.00	180.00	7,606.0	-5,447.5	744.4	5,447.5	0.00	0.00	
13,000.0	90.00	180.00	7,606.0	-5,547.5	744.4	5,547.5	0.00	0.00	
13,100.0	90.00	180.00	7,606.0	-5,647.5	744.4	5,647.5	0.00	0.00	
13,200.0	90.00	180.00	7,606.0	-5,747.5	744.4	5,747.5	0.00	0.00	
13,300.0	90.00	180.00	7,606.0	-5,847.5	744.4	5,847.5	0.00	0.00	
13,400.0	90.00	180.00	7,606.0	-5,947.5	744.4	5,947.5	0.00	0.00	
13,500.0	90.00	180.00	7,606.0	-6,047.5	744.4	6,047.5	0.00	0.00	
13,600.0	90.00	180.00	7,606.0	-6,147.5	744.4	6,147.5	0.00	0.00	
13,700.0	90.00	180.00	7,606.0	-6,247.5	744.4	6,247.5	0.00	0.00	
13,800.0	90.00	180.00	7,606.0	-6,347.5	744.4	6,347.5	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File)	<b>North Reference:</b>	True
<b>Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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
13,900.0	90.00	180.00	7,606.0	-6,447.5	744.4	6,447.5	0.00	0.00	
14,000.0	90.00	180.00	7,606.0	-6,547.5	744.4	6,547.5	0.00	0.00	
14,100.0	90.00	180.00	7,606.0	-6,647.5	744.4	6,647.5	0.00	0.00	
14,122.4	90.00	180.00	7,606.0	-6,669.9	744.4	6,669.9	0.00	0.00	TD at 14122.4

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
File 3H-32H-K268 PBHL	0.00	0.00	7,606.0	-6,669.9	744.4	1,270,255.06	3,131,984.99	40.074270	-105.028390
- plan hits target center									
- Point									

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
271.0	271.0	Fox Hills - BASE			
4,347.5	4,327.0	Sussex			
4,630.2	4,608.0	Sussex Marker			
4,923.8	4,900.0	Shannon			
6,834.8	6,800.0	Teepee Buttes (*if present)			
7,246.8	7,207.0	Sharon Springs			
7,358.4	7,309.0	Niobrara			
7,428.5	7,368.0	B Chalk			
7,471.8	7,402.0	B Marl			
7,562.0	7,466.0	C Chalk			
7,615.5	7,499.0	C Marl			
7,788.8	7,577.0	Ft. Hayes			
7,864.9	7,596.0	Codell			

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
350.0	350.0	0.0	0.0	KOP @ 350'
963.3	962.1	2.5	32.7	EOB; Inc=6.13°
7,067.7	7,031.6	53.0	682.9	Start build/turn @ 7067' MD
7,972.4	7,606.0	-519.9	744.4	LP @ 7606' TVD; 90°
14,122.4	7,606.0	-6,669.9	744.4	TD at 14122.4

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S32-T2N-R68W (File)**

**File 3H-32H-K268**

**Hz**

**Plan #1**

## **Anticollision Report**

**28 June, 2013**

## Anticollision Report

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

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

<b>Survey Tool Program</b>		<b>Date</b>	6/28/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	14,122.4	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

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

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
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	11,298.9	7,666.0	353.5	269.8	4.221	CC
BROWN 22-5 (EXISTING) - ENCANA WELL - NO SURV	11,300.0	7,666.0	353.5	269.7	4.220	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	9,709.9	7,663.0	228.7	172.1	4.039	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	47.7	47.0	73.272	CC, ES
File 3A-32H-K268 - Hz - Plan #1	600.0	594.6	66.9	64.8	32.817	SF
File 3B-32H-K268 - Hz - Plan #1	300.0	299.0	42.0	41.0	41.963	CC, ES
File 3B-32H-K268 - Hz - Plan #1	600.0	596.2	55.1	53.1	26.993	SF
File 3C-32H-K268 - Hz - Plan #1	300.0	299.0	36.6	35.6	36.550	CC
File 3C-32H-K268 - Hz - Plan #1	400.0	399.0	36.8	35.4	27.256	ES
File 3C-32H-K268 - Hz - Plan #1	600.0	597.4	45.4	43.3	22.214	SF
File 3D-32H-K268 - Hz - Plan #1	300.0	299.0	30.8	29.8	30.773	CC
File 3D-32H-K268 - Hz - Plan #1	400.0	399.0	31.0	29.6	22.973	ES
File 3D-32H-K268 - Hz - Plan #1	600.0	598.3	37.1	35.0	18.117	SF
File 3E-32H-K268 - Hz - Plan #1	300.0	300.0	17.2	16.2	17.147	CC
File 3E-32H-K268 - Hz - Plan #1	400.0	400.0	17.4	16.0	12.876	ES
File 3E-32H-K268 - Hz - Plan #1	600.0	599.9	22.6	20.5	11.032	SF
File 3F-32H-K268 - Hz - Plan #1	300.0	300.0	11.2	10.2	11.171	CC
File 3F-32H-K268 - Hz - Plan #1	400.0	400.0	11.4	10.1	8.445	ES
File 3F-32H-K268 - Hz - Plan #1	500.0	500.0	13.1	11.4	7.737	SF
File 3G-32H-K268 - Hz - Plan #1	300.0	300.0	6.7	5.7	6.665	CC
File 3G-32H-K268 - Hz - Plan #1	400.0	400.0	6.9	5.5	5.085	ES
File 3G-32H-K268 - Hz - Plan #1	14,122.4	13,822.6	417.6	216.2	2.074	SF
File 3I-32H-K268 - Hz - Plan #1	533.2	533.3	7.7	5.9	4.170	CC, ES, SF
File 3J-32H-K268 - Hz - Plan #1	626.4	626.5	6.4	4.2	2.921	CC, ES, SF
File 3K-32H-K268 - Hz - Plan #1	715.6	715.4	11.9	9.4	4.754	CC, ES, SF
File 3L-32H-K268 - Hz - Plan #1	770.2	769.8	11.2	8.5	4.150	CC, ES, SF
File 3M-32H-K268 - Hz - Plan #1	716.9	715.8	36.6	34.1	14.401	CC, ES
File 3M-32H-K268 - Hz - Plan #1	800.0	798.1	38.1	35.2	13.337	SF
File 3N-32H-K268 - Hz - Plan #1	803.2	800.8	41.0	38.2	14.605	CC, ES
File 3N-32H-K268 - Hz - Plan #1	1,000.0	995.9	46.3	42.7	12.941	SF
File 3O-32H-K268 - Hz - Plan #1	233.5	233.5	53.3	52.5	69.240	CC
File 3O-32H-K268 - Hz - Plan #1	300.0	299.7	53.4	52.4	53.353	ES
File 3O-32H-K268 - Hz - Plan #1	7,700.0	7,715.2	218.4	189.9	7.660	SF
File 3P-32H-K268 - Hz - Plan #1	200.0	200.0	58.8	58.1	90.007	CC, ES
File 3P-32H-K268 - Hz - Plan #1	7,462.0	7,709.5	151.4	124.7	5.686	SF
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU	12,836.5	7,680.0	226.7	116.3	2.053	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

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

# Anticollision Report

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

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File)						
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	3,921.5	3,902.5	155.6	139.6	9.715	CC
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	4,000.0	3,980.5	155.8	139.5	9.532	ES
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV	4,400.0	4,378.2	163.8	146.0	9.186	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
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						Out of range
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	5,287.7	5,164.7	116.1	94.4	5.345	CC
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	5,300.0	5,177.0	116.1	94.4	5.332	ES
RAY NELSON 23-32 (EXISTING) - ENCANA WELL - NO	5,500.0	5,375.9	118.3	95.8	5.253	SF
RAY NELSON 24-32 (EXISTING) - ENCANA WELL - SU						Out of range
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	7,892.8	7,656.5	218.7	185.6	6.609	CC, ES
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU	7,900.0	7,657.2	218.9	185.7	6.602	SF
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						Out of range
SCHRINER 12-5 (EXISTING) - KERR-MCGEE WELL - N						Out of range
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1	6,353.1	6,351.8	308.3	278.9	10.508	CC, ES
WANDELL 33-7 (EXISTING) - ENCANA WELL - Plan #1	6,500.0	6,484.5	314.6	284.0	10.272	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

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						
11,000.0	7,606.0	7,666.0	7,666.0	66.5	13.4	90.00	-3,846.4	390.9	462.9	384.4	78.59	5.891						
11,100.0	7,606.0	7,666.0	7,666.0	68.2	13.4	90.00	-3,846.4	390.9	405.6	325.3	80.31	5.051						
11,200.0	7,606.0	7,666.0	7,666.0	69.9	13.4	90.00	-3,846.4	390.9	367.1	285.0	82.03	4.475						
11,298.9	7,606.0	7,666.0	7,666.0	71.6	13.4	90.00	-3,846.4	390.9	353.5	269.8	83.74	4.221	CC					
11,300.0	7,606.0	7,666.0	7,666.0	71.6	13.4	90.00	-3,846.4	390.9	353.5	269.7	83.76	4.220	ES, SF					
11,400.0	7,606.0	7,666.0	7,666.0	73.3	13.4	90.00	-3,846.4	390.9	367.7	282.2	85.48	4.301						
11,500.0	7,606.0	7,666.0	7,666.0	75.0	13.4	90.00	-3,846.4	390.9	406.7	319.5	87.21	4.663						
11,600.0	7,606.0	7,666.0	7,666.0	76.7	13.4	90.00	-3,846.4	390.9	464.3	375.4	88.94	5.221						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		
9,300.0	7,606.0	7,663.0	7,663.0	38.7	13.4	90.00	-2,257.4	515.7	469.4	419.6	49.83	9.421		
9,400.0	7,606.0	7,663.0	7,663.0	40.3	13.4	90.00	-2,257.4	515.7	385.2	333.7	51.48	7.483		
9,500.0	7,606.0	7,663.0	7,663.0	41.9	13.4	90.00	-2,257.4	515.7	310.5	257.3	53.13	5.843		
9,600.0	7,606.0	7,663.0	7,663.0	43.4	13.4	90.00	-2,257.4	515.7	253.8	199.0	54.80	4.631		
9,700.0	7,606.0	7,663.0	7,663.0	45.0	13.4	90.00	-2,257.4	515.7	228.9	172.5	56.47	4.054		
9,709.9	7,606.0	7,663.0	7,663.0	45.2	13.4	90.00	-2,257.4	515.7	228.7	172.1	56.63	4.039	CC, ES, SF	
9,800.0	7,606.0	7,663.0	7,663.0	46.6	13.4	90.00	-2,257.4	515.7	245.8	187.7	58.14	4.228		
9,900.0	7,606.0	7,663.0	7,663.0	48.3	13.4	90.00	-2,257.4	515.7	297.4	237.6	59.83	4.971		
10,000.0	7,606.0	7,663.0	7,663.0	49.9	13.4	90.00	-2,257.4	515.7	369.4	307.9	61.51	6.005		
10,100.0	7,606.0	7,663.0	7,663.0	51.5	13.4	90.00	-2,257.4	515.7	452.2	389.0	63.21	7.154		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						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	-94.37	-3.6	-47.6	47.7					
100.0	100.0	99.0	99.0	0.2	0.2	-94.37	-3.6	-47.6	47.7	47.4	0.30	157.860		
200.0	200.0	199.0	199.0	0.3	0.3	-94.37	-3.6	-47.6	47.7	47.0	0.65	73.272	CC, ES	
300.0	300.0	298.2	298.2	0.5	0.5	-94.43	-3.7	-48.4	48.5	47.5	1.00	48.571		
400.0	400.0	397.3	397.2	0.7	0.7	179.87	-4.1	-50.9	51.3	50.0	1.35	38.140		
500.0	500.0	496.2	496.0	0.9	0.9	179.66	-4.6	-55.2	57.4	55.7	1.69	33.900		
600.0	599.9	594.6	594.3	1.0	1.1	179.45	-5.4	-61.0	66.9	64.8	2.04	32.817	SF	
700.0	699.8	692.5	691.9	1.2	1.3	179.25	-6.4	-68.5	79.8	77.4	2.38	33.517		
800.0	799.5	789.7	788.7	1.4	1.5	179.09	-7.5	-77.6	96.2	93.4	2.72	35.323		
900.0	899.2	886.0	884.3	1.6	1.7	178.96	-8.9	-88.2	115.9	112.8	3.06	37.866		
1,000.0	998.6	981.2	978.8	1.9	2.0	178.86	-10.5	-100.3	138.8	135.4	3.40	40.870		
1,100.0	1,098.0	1,075.5	1,072.1	2.1	2.3	178.78	-12.2	-113.8	163.7	160.0	3.73	43.845		
1,200.0	1,197.5	1,169.1	1,164.5	2.3	2.6	178.70	-14.1	-128.6	190.2	186.1	4.07	46.736		
1,300.0	1,296.9	1,261.8	1,255.7	2.6	2.9	178.63	-16.2	-144.8	218.2	213.8	4.40	49.562		
1,400.0	1,396.3	1,353.6	1,345.8	2.8	3.2	178.57	-18.5	-162.3	247.8	243.1	4.73	52.335		
1,500.0	1,495.8	1,444.4	1,434.7	3.1	3.6	178.51	-20.9	-181.1	278.9	273.8	5.06	55.066		
1,600.0	1,595.2	1,534.3	1,522.3	3.3	4.0	178.46	-23.5	-201.0	311.5	306.1	5.39	57.760		
1,700.0	1,694.6	1,623.3	1,608.7	3.6	4.4	178.41	-26.2	-222.0	345.6	339.8	5.72	60.425		
1,800.0	1,794.0	1,714.9	1,697.4	3.8	4.8	178.37	-29.2	-244.7	380.8	374.7	6.05	62.949		
1,900.0	1,893.5	1,808.5	1,788.0	4.1	5.2	178.33	-32.2	-268.0	416.1	409.7	6.38	65.194		
2,000.0	1,992.9	1,902.0	1,878.5	4.3	5.6	178.29	-35.2	-291.3	451.4	444.7	6.72	67.218		
2,100.0	2,092.3	1,995.6	1,969.1	4.6	6.1	178.27	-38.3	-314.7	486.7	479.7	7.05	69.051		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	-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		
300.0	300.0	299.0	299.0	0.5	0.5	-89.99	0.0	-42.0	42.0	41.0	1.00	41.963 CC, ES		
400.0	400.0	398.3	398.3	0.7	0.7	-175.47	0.1	-42.8	43.0	41.7	1.35	31.924		
500.0	500.0	497.4	497.4	0.9	0.9	-175.35	0.3	-45.4	47.3	45.6	1.70	27.927		
600.0	599.9	596.2	596.1	1.0	1.0	-175.24	0.7	-49.6	55.1	53.1	2.04	26.993 SF		
700.0	699.8	694.5	694.2	1.2	1.2	-175.15	1.3	-55.5	66.3	63.9	2.39	27.789		
800.0	799.5	792.2	791.6	1.4	1.4	-175.08	2.0	-63.0	80.9	78.2	2.73	29.655		
900.0	899.2	889.1	888.0	1.6	1.7	-175.04	2.8	-72.1	98.9	95.8	3.07	32.234		
1,000.0	998.6	985.0	983.3	1.9	1.9	-175.01	3.8	-82.7	120.1	116.7	3.41	35.259		
1,100.0	1,098.0	1,080.1	1,077.7	2.1	2.1	-174.95	4.9	-94.8	143.3	139.6	3.75	38.251		
1,200.0	1,197.5	1,174.4	1,171.0	2.3	2.4	-174.86	6.2	-108.3	168.1	164.0	4.09	41.151		
1,300.0	1,296.9	1,267.9	1,263.3	2.6	2.7	-174.76	7.6	-123.2	194.5	190.1	4.42	43.979		
1,400.0	1,396.3	1,360.6	1,354.5	2.8	3.0	-174.65	9.1	-139.4	222.4	217.7	4.76	46.751		
1,500.0	1,495.8	1,454.3	1,446.6	3.1	3.3	-174.54	10.8	-157.2	251.7	246.6	5.09	49.407		
1,600.0	1,595.2	1,549.9	1,540.3	3.3	3.7	-174.45	12.5	-175.4	281.2	275.7	5.43	51.741		
1,700.0	1,694.6	1,645.4	1,634.1	3.6	4.0	-174.37	14.2	-193.7	310.7	304.9	5.77	53.802		
1,800.0	1,794.0	1,741.0	1,727.9	3.8	4.4	-174.31	15.9	-212.0	340.1	334.0	6.11	55.633		
1,900.0	1,893.5	1,836.5	1,821.7	4.1	4.7	-174.26	17.6	-230.2	369.6	363.2	6.45	57.272		
2,000.0	1,992.9	1,932.1	1,915.4	4.3	5.1	-174.21	19.3	-248.5	399.1	392.3	6.79	58.747		
2,100.0	2,092.3	2,027.6	2,009.2	4.6	5.4	-174.17	21.0	-266.8	428.6	421.5	7.13	60.081		
2,200.0	2,191.8	2,123.2	2,103.0	4.8	5.8	-174.14	22.7	-285.1	458.1	450.6	7.47	61.294		
2,300.0	2,291.2	2,218.8	2,196.8	5.1	6.2	-174.11	24.4	-303.3	487.5	479.7	7.81	62.402		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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			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	-95.72	-3.6	-36.4	36.6					
100.0	100.0	99.0	99.0	0.2	0.2	-95.72	-3.6	-36.4	36.6	36.3	0.30	120.967		
200.0	200.0	199.0	199.0	0.3	0.3	-95.72	-3.6	-36.4	36.6	35.9	0.65	56.148		
300.0	300.0	299.0	299.0	0.5	0.5	-95.72	-3.6	-36.4	36.6	35.6	1.00	36.550	CC	
327.8	327.8	326.8	326.8	0.5	0.5	178.72	-3.6	-36.4	36.6	35.5	1.10	33.349		
400.0	400.0	399.0	399.0	0.7	0.7	178.73	-3.6	-36.4	36.8	35.4	1.35	27.256	ES	
500.0	500.0	498.3	498.3	0.9	0.8	178.59	-3.9	-37.2	39.4	37.7	1.70	23.195		
600.0	599.9	597.4	597.4	1.0	1.0	178.20	-4.5	-39.7	45.4	43.3	2.04	22.214	SF	
700.0	699.8	696.1	696.0	1.2	1.2	177.72	-5.6	-43.8	54.9	52.5	2.39	22.971		
800.0	799.5	794.2	793.9	1.4	1.4	177.25	-7.1	-49.5	67.8	65.1	2.73	24.807		
900.0	899.2	891.6	891.0	1.6	1.6	176.85	-9.0	-56.8	84.1	81.0	3.07	27.359		
1,000.0	998.6	988.1	987.1	1.9	1.8	176.52	-11.3	-65.5	103.7	100.2	3.41	30.363		
1,100.0	1,098.0	1,083.9	1,082.2	2.1	2.0	176.22	-14.0	-75.8	125.2	121.4	3.76	33.341		
1,200.0	1,197.5	1,178.9	1,176.5	2.3	2.3	175.95	-17.0	-87.5	148.4	144.3	4.09	36.228		
1,300.0	1,296.9	1,273.1	1,269.8	2.6	2.6	175.69	-20.4	-100.6	173.1	168.7	4.43	39.045		
1,400.0	1,396.3	1,366.6	1,362.0	2.8	2.8	175.45	-24.2	-115.1	199.4	194.7	4.77	41.807		
1,500.0	1,495.8	1,460.8	1,454.8	3.1	3.1	175.23	-28.4	-131.0	227.2	222.1	5.11	44.469		
1,600.0	1,595.2	1,556.8	1,549.3	3.3	3.5	175.05	-32.7	-147.4	255.1	249.7	5.45	46.819		
1,700.0	1,694.6	1,652.8	1,643.8	3.6	3.8	174.90	-37.0	-163.8	283.1	277.3	5.79	48.894		
1,800.0	1,794.0	1,748.8	1,738.3	3.8	4.1	174.78	-41.2	-180.2	311.1	305.0	6.13	50.737		
1,900.0	1,893.5	1,844.8	1,832.8	4.1	4.4	174.68	-45.5	-196.6	339.1	332.6	6.47	52.387		
2,000.0	1,992.9	1,940.8	1,927.3	4.3	4.8	174.60	-49.8	-213.0	367.1	360.3	6.81	53.872		
2,100.0	2,092.3	2,036.8	2,021.7	4.6	5.1	174.52	-54.1	-229.5	395.0	387.9	7.15	55.215		
2,200.0	2,191.8	2,132.8	2,116.2	4.8	5.4	174.46	-58.4	-245.9	423.0	415.5	7.50	56.437		
2,300.0	2,291.2	2,228.8	2,210.7	5.1	5.8	174.41	-62.7	-262.3	451.0	443.2	7.84	57.552		
2,400.0	2,390.6	2,324.8	2,305.2	5.3	6.1	174.36	-67.0	-278.7	479.0	470.8	8.18	58.574		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	-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	0.30	101.847		
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.8	30.8	30.1	0.65	47.273		
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-30.8	30.8	29.8	1.00	30.773 CC		
327.8	327.8	326.8	326.8	0.5	0.5	-175.56	0.0	-30.8	30.8	29.7	1.10	28.083		
400.0	400.0	399.0	399.0	0.7	0.7	-175.59	0.0	-30.8	31.0	29.6	1.35	22.973 ES		
500.0	500.0	499.0	499.0	0.9	0.8	-175.82	0.0	-30.8	32.7	31.0	1.70	19.279		
600.0	599.9	598.3	598.3	1.0	1.0	-175.99	0.1	-31.6	37.1	35.0	2.05	18.117 SF		
700.0	699.8	697.3	697.3	1.2	1.2	-175.90	0.6	-34.1	44.8	42.4	2.39	18.740		
800.0	799.5	795.8	795.7	1.4	1.4	-175.66	1.2	-38.3	56.0	53.3	2.74	20.467		
900.0	899.2	893.7	893.4	1.6	1.6	-175.39	2.2	-44.1	70.6	67.5	3.08	22.927		
1,000.0	998.6	990.7	990.1	1.9	1.8	-175.12	3.4	-51.5	88.4	85.0	3.42	25.854		
1,100.0	1,098.0	1,087.1	1,086.1	2.1	2.0	-174.83	4.9	-60.4	108.2	104.5	3.76	28.766		
1,200.0	1,197.5	1,183.9	1,182.3	2.3	2.2	-174.54	6.6	-70.8	129.5	125.4	4.11	31.533		
1,300.0	1,296.9	1,281.6	1,279.4	2.6	2.4	-174.31	8.3	-81.5	151.0	146.5	4.45	33.906		
1,400.0	1,396.3	1,379.2	1,376.4	2.8	2.7	-174.14	10.1	-92.1	172.4	167.6	4.80	35.938		
1,500.0	1,495.8	1,476.9	1,473.5	3.1	2.9	-174.01	11.8	-102.8	193.9	188.7	5.14	37.696		
1,600.0	1,595.2	1,574.6	1,570.6	3.3	3.1	-173.91	13.6	-113.4	215.3	209.8	5.49	39.233		
1,700.0	1,694.6	1,672.3	1,667.7	3.6	3.4	-173.82	15.3	-124.1	236.8	230.9	5.83	40.588		
1,800.0	1,794.0	1,769.9	1,764.7	3.8	3.6	-173.75	17.1	-134.8	258.2	252.1	6.18	41.791		
1,900.0	1,893.5	1,867.6	1,861.8	4.1	3.9	-173.69	18.8	-145.4	279.7	273.2	6.52	42.867		
2,000.0	1,992.9	1,965.3	1,958.9	4.3	4.1	-173.63	20.6	-156.1	301.2	294.3	6.87	43.834		
2,100.0	2,092.3	2,062.9	2,055.9	4.6	4.4	-173.59	22.3	-166.7	322.6	315.4	7.22	44.708		
2,200.0	2,191.8	2,160.6	2,153.0	4.8	4.6	-173.55	24.1	-177.4	344.1	336.5	7.56	45.503		
2,300.0	2,291.2	2,258.3	2,250.1	5.1	4.9	-173.51	25.8	-188.1	365.5	357.6	7.91	46.228		
2,400.0	2,390.6	2,355.9	2,347.2	5.3	5.1	-173.48	27.6	-198.7	387.0	378.7	8.25	46.892		
2,500.0	2,490.0	2,453.6	2,444.2	5.6	5.4	-173.45	29.3	-209.4	408.5	399.9	8.60	47.503		
2,600.0	2,589.5	2,551.3	2,541.3	5.9	5.6	-173.43	31.1	-220.0	429.9	421.0	8.94	48.066		
2,700.0	2,688.9	2,649.0	2,638.4	6.1	5.9	-173.41	32.9	-230.7	451.4	442.1	9.29	48.588		
2,800.0	2,788.3	2,746.6	2,735.4	6.4	6.1	-173.39	34.6	-241.4	472.8	463.2	9.64	49.072		
2,900.0	2,887.7	2,844.3	2,832.5	6.6	6.4	-173.37	36.4	-252.0	494.3	484.3	9.98	49.522		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	-102.26	-3.6	-16.8	17.2					
100.0	100.0	100.0	100.0	0.2	0.2	-102.26	-3.6	-16.8	17.2	16.9	0.30	56.565		
200.0	200.0	200.0	200.0	0.3	0.3	-102.26	-3.6	-16.8	17.2	16.5	0.65	26.316		
300.0	300.0	300.0	300.0	0.5	0.5	-102.26	-3.6	-16.8	17.2	16.2	1.00	17.147 CC		
327.8	327.8	327.8	327.8	0.5	0.5	172.20	-3.6	-16.8	17.2	16.1	1.10	15.663		
400.0	400.0	400.0	400.0	0.7	0.7	172.28	-3.6	-16.8	17.4	16.0	1.35	12.876 ES		
500.0	500.0	500.0	500.0	0.9	0.8	172.98	-3.6	-16.8	19.1	17.4	1.70	11.253		
600.0	599.9	599.9	599.9	1.0	1.0	174.06	-3.6	-16.8	22.6	20.5	2.05	11.032 SF		
700.0	699.8	699.4	699.4	1.2	1.2	176.09	-3.3	-17.6	28.5	26.1	2.39	11.917		
800.0	799.5	798.4	798.4	1.4	1.4	178.85	-2.3	-19.9	37.8	35.0	2.74	13.776		
900.0	899.2	897.1	897.0	1.6	1.6	-178.63	-0.7	-23.8	50.2	47.2	3.09	16.285		
1,000.0	998.6	996.1	995.8	1.9	1.7	-177.00	1.2	-28.2	64.8	61.4	3.43	18.897		
1,100.0	1,098.0	1,094.9	1,094.6	2.1	1.9	-175.99	3.0	-32.5	79.8	76.0	3.78	21.116		
1,200.0	1,197.5	1,193.8	1,193.3	2.3	2.1	-175.30	4.8	-36.8	94.8	90.7	4.13	22.964		
1,300.0	1,296.9	1,292.6	1,292.1	2.6	2.3	-174.80	6.7	-41.1	109.8	105.3	4.48	24.524		
1,400.0	1,396.3	1,391.5	1,390.8	2.8	2.5	-174.41	8.5	-45.5	124.8	120.0	4.83	25.859		
1,500.0	1,495.8	1,490.4	1,489.6	3.1	2.7	-174.11	10.4	-49.8	139.8	134.7	5.18	27.014		
1,600.0	1,595.2	1,589.2	1,588.3	3.3	2.9	-173.87	12.2	-54.1	154.8	149.3	5.53	28.024		
1,700.0	1,694.6	1,688.1	1,687.1	3.6	3.0	-173.67	14.0	-58.5	169.9	164.0	5.88	28.912		
1,800.0	1,794.0	1,787.0	1,785.8	3.8	3.2	-173.51	15.9	-62.8	184.9	178.7	6.22	29.701		
1,900.0	1,893.5	1,885.8	1,884.6	4.1	3.4	-173.37	17.7	-67.1	199.9	193.3	6.57	30.406		
2,000.0	1,992.9	1,984.7	1,983.3	4.3	3.6	-173.24	19.5	-71.4	214.9	208.0	6.92	31.040		
2,100.0	2,092.3	2,083.6	2,082.1	4.6	3.8	-173.14	21.4	-75.8	229.9	222.7	7.27	31.613		
2,200.0	2,191.8	2,182.4	2,180.8	4.8	4.0	-173.04	23.2	-80.1	245.0	237.3	7.62	32.133		
2,300.0	2,291.2	2,281.3	2,279.6	5.1	4.2	-172.96	25.0	-84.4	260.0	252.0	7.97	32.607		
2,400.0	2,390.6	2,380.2	2,378.3	5.3	4.4	-172.89	26.9	-88.7	275.0	266.7	8.32	33.041		
2,500.0	2,490.0	2,479.0	2,477.1	5.6	4.6	-172.82	28.7	-93.1	290.0	281.4	8.67	33.441		
2,600.0	2,589.5	2,577.9	2,575.9	5.9	4.7	-172.76	30.5	-97.4	305.1	296.0	9.02	33.809		
2,700.0	2,688.9	2,676.8	2,674.6	6.1	4.9	-172.71	32.4	-101.7	320.1	310.7	9.37	34.150		
2,800.0	2,788.3	2,775.6	2,773.4	6.4	5.1	-172.66	34.2	-106.1	335.1	325.4	9.72	34.466		
2,900.0	2,887.7	2,874.5	2,872.1	6.6	5.3	-172.62	36.0	-110.4	350.1	340.1	10.07	34.760		
3,000.0	2,987.2	2,973.3	2,970.9	6.9	5.5	-172.58	37.9	-114.7	365.2	354.7	10.42	35.034		
3,100.0	3,086.6	3,072.2	3,069.6	7.1	5.7	-172.54	39.7	-119.0	380.2	369.4	10.77	35.290		
3,200.0	3,186.0	3,171.1	3,168.4	7.4	5.9	-172.50	41.5	-123.4	395.2	384.1	11.12	35.531		
3,300.0	3,285.5	3,269.9	3,267.1	7.6	6.1	-172.47	43.4	-127.7	410.2	398.8	11.47	35.756		
3,400.0	3,384.9	3,368.8	3,365.9	7.9	6.3	-172.44	45.2	-132.0	425.3	413.4	11.82	35.969		
3,500.0	3,484.3	3,467.7	3,464.6	8.1	6.5	-172.41	47.1	-136.3	440.3	428.1	12.17	36.169		
3,600.0	3,583.7	3,566.5	3,563.4	8.4	6.6	-172.39	48.9	-140.7	455.3	442.8	12.52	36.357		
3,700.0	3,683.2	3,665.4	3,662.1	8.7	6.8	-172.36	50.7	-145.0	470.3	457.5	12.87	36.536		
3,800.0	3,782.6	3,764.3	3,760.9	8.9	7.0	-172.34	52.6	-149.3	485.4	472.1	13.22	36.705		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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)		Between Centres (ft)	Between Ellipses (ft)				Offset +N/-S (ft)	Offset +E/-W (ft)	
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 CC		
327.8	327.8	327.8	327.8	0.5	0.5	-175.59	0.0	-11.2	11.2	10.1	1.10	10.215		
400.0	400.0	400.0	400.0	0.7	0.7	-175.66	0.0	-11.2	11.4	10.1	1.35	8.445 ES		
500.0	500.0	500.0	500.0	0.9	0.8	-176.24	0.0	-11.2	13.1	11.4	1.70	7.737 SF		
600.0	599.9	599.9	599.9	1.0	1.0	-177.03	0.0	-11.2	16.6	14.6	2.05	8.122		
700.0	699.8	699.8	699.8	1.2	1.2	-177.74	0.0	-11.2	21.9	19.5	2.40	9.126		
800.0	799.5	799.5	799.5	1.4	1.4	-178.28	0.0	-11.2	28.8	26.1	2.74	10.515		
900.0	899.2	899.2	899.2	1.6	1.5	-178.68	0.0	-11.2	37.5	34.5	3.09	12.159		
1,000.0	998.6	998.6	998.6	1.9	1.7	-178.96	0.0	-11.2	47.9	44.4	3.43	13.944		
1,100.0	1,098.0	1,098.0	1,098.0	2.1	1.9	-179.15	0.0	-11.2	58.6	54.8	3.78	15.486		
1,200.0	1,197.5	1,197.5	1,197.5	2.3	2.1	-179.28	0.0	-11.2	69.2	65.1	4.13	16.768		
1,300.0	1,296.9	1,296.9	1,296.9	2.6	2.2	-179.38	0.0	-11.2	79.9	75.4	4.48	17.852		
1,400.0	1,396.3	1,396.3	1,396.3	2.8	2.4	-179.45	0.0	-11.2	90.6	85.8	4.82	18.779		
1,500.0	1,495.8	1,495.8	1,495.8	3.1	2.6	-179.51	0.0	-11.2	101.3	96.1	5.17	19.582		
1,600.0	1,595.2	1,595.2	1,595.2	3.3	2.8	-179.56	0.0	-11.2	112.0	106.5	5.52	20.283		
1,700.0	1,694.6	1,694.6	1,694.6	3.6	2.9	-179.59	0.0	-11.2	122.7	116.8	5.87	20.902		
1,800.0	1,794.0	1,794.0	1,794.0	3.8	3.1	-179.63	0.0	-11.2	133.3	127.1	6.22	21.451		
1,900.0	1,893.5	1,893.5	1,893.5	4.1	3.3	-179.65	0.0	-11.2	144.0	137.5	6.56	21.943		
2,000.0	1,992.9	1,992.9	1,992.9	4.3	3.5	-179.68	0.0	-11.2	154.7	147.8	6.91	22.384		
2,100.0	2,092.3	2,092.3	2,092.3	4.6	3.6	-179.70	0.0	-11.2	165.4	158.1	7.26	22.784		
2,200.0	2,191.8	2,191.8	2,191.8	4.8	3.8	-179.72	0.0	-11.2	176.1	168.5	7.61	23.147		
2,300.0	2,291.2	2,291.2	2,291.2	5.1	4.0	-179.73	0.0	-11.2	186.8	178.8	7.95	23.478		
2,400.0	2,390.6	2,390.6	2,390.6	5.3	4.1	-179.75	0.0	-11.2	197.4	189.1	8.30	23.782		
2,500.0	2,490.0	2,490.0	2,490.0	5.6	4.3	-179.76	0.0	-11.2	208.1	199.5	8.65	24.061		
2,600.0	2,589.5	2,589.5	2,589.5	5.9	4.5	-179.77	0.0	-11.2	218.8	209.8	9.00	24.318		
2,700.0	2,688.9	2,688.9	2,688.9	6.1	4.7	-179.78	0.0	-11.2	229.5	220.1	9.35	24.557		
2,800.0	2,788.3	2,788.3	2,788.3	6.4	4.8	-179.79	0.0	-11.2	240.2	230.5	9.69	24.778		
2,900.0	2,887.7	2,887.7	2,887.7	6.6	5.0	-179.80	0.0	-11.2	250.8	240.8	10.04	24.984		
3,000.0	2,987.2	2,987.2	2,987.2	6.9	5.2	-179.81	0.0	-11.2	261.5	251.1	10.39	25.176		
3,100.0	3,086.6	3,086.6	3,086.6	7.1	5.4	-179.82	0.0	-11.2	272.2	261.5	10.74	25.356		
3,200.0	3,186.0	3,186.0	3,186.0	7.4	5.5	-179.82	0.0	-11.2	282.9	271.8	11.08	25.524		
3,300.0	3,285.5	3,285.5	3,285.5	7.6	5.7	-179.83	0.0	-11.2	293.6	282.1	11.43	25.683		
3,400.0	3,384.9	3,384.9	3,384.9	7.9	5.9	-179.84	0.0	-11.2	304.3	292.5	11.78	25.832		
3,500.0	3,484.3	3,484.3	3,484.3	8.1	6.1	-179.84	0.0	-11.2	314.9	302.8	12.13	25.972		
3,600.0	3,583.7	3,583.7	3,583.7	8.4	6.2	-179.85	0.0	-11.2	325.6	313.2	12.47	26.104		
3,700.0	3,683.2	3,683.2	3,683.2	8.7	6.4	-179.85	0.0	-11.2	336.3	323.5	12.82	26.230		
3,800.0	3,782.6	3,782.6	3,782.6	8.9	6.6	-179.86	0.0	-11.2	347.0	333.8	13.17	26.349		
3,900.0	3,882.0	3,882.0	3,882.0	9.2	6.8	-179.86	0.0	-11.2	357.7	344.2	13.52	26.461		
4,000.0	3,981.5	3,981.5	3,981.5	9.4	6.9	-179.87	0.0	-11.2	368.4	354.5	13.86	26.568		
4,100.0	4,080.9	4,080.9	4,080.9	9.7	7.1	-179.78	0.6	-11.0	378.8	364.6	14.22	26.647		
4,200.0	4,180.3	4,185.2	4,185.2	9.9	7.3	-179.47	2.8	-10.2	388.6	374.0	14.57	26.672		
4,300.0	4,279.7	4,285.2	4,285.1	10.2	7.5	-179.01	6.1	-9.1	397.9	383.0	14.92	26.672		
4,400.0	4,379.2	4,384.7	4,384.5	10.4	7.6	-178.58	9.5	-7.9	407.3	392.0	15.27	26.672		
4,500.0	4,478.6	4,484.2	4,484.0	10.7	7.8	-178.16	12.8	-6.8	416.7	401.0	15.62	26.673		
4,600.0	4,578.0	4,583.7	4,583.4	11.0	8.0	-177.77	16.1	-5.7	426.1	410.1	15.97	26.675		
4,700.0	4,677.4	4,683.2	4,682.9	11.2	8.2	-177.39	19.5	-4.5	435.5	419.2	16.32	26.676		
4,800.0	4,776.9	4,782.8	4,782.3	11.5	8.3	-177.03	22.8	-3.4	444.9	428.2	16.68	26.677		
4,900.0	4,876.3	4,882.3	4,881.8	11.7	8.5	-176.68	26.1	-2.3	454.4	437.3	17.03	26.678		
5,000.0	4,975.7	4,981.8	4,981.3	12.0	8.7	-176.34	29.4	-1.1	463.8	446.4	17.39	26.679		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,100.0	5,075.2	5,081.3	5,080.7	12.2	8.9	-176.02	32.8	0.0	473.3	455.6	17.74	26.680						
5,200.0	5,174.6	5,180.8	5,180.2	12.5	9.0	-175.72	36.1	1.2	482.8	464.7	18.10	26.681						
5,300.0	5,274.0	5,280.3	5,279.6	12.7	9.2	-175.42	39.4	2.3	492.3	473.9	18.45	26.682						

# Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3G-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	-123.07	-3.6	-5.6	6.7					
100.0	100.0	100.0	100.0	0.2	0.2	-123.07	-3.6	-5.6	6.7	6.4	0.30	21.986		
200.0	200.0	200.0	200.0	0.3	0.3	-123.07	-3.6	-5.6	6.7	6.0	0.65	10.229		
300.0	300.0	300.0	300.0	0.5	0.5	-123.07	-3.6	-5.6	6.7	5.7	1.00	6.665	CC	
328.0	328.0	328.0	328.0	0.5	0.5	151.52	-3.6	-5.6	6.7	5.6	1.10	6.099		
400.0	400.0	400.0	400.0	0.7	0.7	152.25	-3.6	-5.6	6.9	5.5	1.35	5.085	ES	
500.0	500.0	500.0	500.0	0.9	0.8	157.76	-3.6	-5.6	8.5	6.8	1.70	4.973		
600.0	599.9	600.1	600.1	1.0	1.0	162.83	-3.6	-4.7	10.9	8.9	2.05	5.333		
700.0	699.8	700.3	700.2	1.2	1.2	165.81	-3.5	-2.1	13.5	11.1	2.40	5.616		
800.0	799.5	800.4	800.3	1.4	1.4	167.69	-3.3	2.2	16.1	13.3	2.75	5.854		
900.0	899.2	900.4	900.1	1.6	1.6	169.67	-3.0	7.1	19.9	16.8	3.10	6.434		
1,000.0	998.6	1,000.2	999.8	1.9	1.8	171.58	-2.8	11.9	25.4	21.9	3.44	7.369		
1,100.0	1,098.0	1,100.0	1,099.5	2.1	1.9	172.89	-2.6	16.7	31.2	27.4	3.79	8.225		
1,200.0	1,197.5	1,199.9	1,199.3	2.3	2.1	173.80	-2.3	21.6	37.0	32.9	4.14	8.939		
1,300.0	1,296.9	1,299.7	1,299.0	2.6	2.3	174.45	-2.1	26.4	42.9	38.4	4.49	9.544		
1,400.0	1,396.3	1,399.5	1,398.7	2.8	2.5	174.95	-1.9	31.2	48.7	43.9	4.84	10.063		
1,500.0	1,495.8	1,499.3	1,498.4	3.1	2.7	175.35	-1.6	36.1	54.5	49.4	5.19	10.512		
1,600.0	1,595.2	1,599.2	1,598.1	3.3	2.9	175.66	-1.4	40.9	60.4	54.8	5.54	10.905		
1,700.0	1,694.6	1,699.0	1,697.8	3.6	3.1	175.92	-1.2	45.7	66.2	60.3	5.89	11.252		
1,800.0	1,794.0	1,798.8	1,797.5	3.8	3.3	176.14	-0.9	50.6	72.1	65.8	6.24	11.560		
1,900.0	1,893.5	1,898.7	1,897.2	4.1	3.5	176.33	-0.7	55.4	77.9	71.3	6.58	11.836		
2,000.0	1,992.9	1,998.5	1,996.9	4.3	3.7	176.49	-0.5	60.2	83.8	76.9	6.93	12.084		
2,100.0	2,092.3	2,098.3	2,096.7	4.6	3.9	176.63	-0.2	65.1	89.6	82.4	7.28	12.308		
2,200.0	2,191.8	2,198.1	2,196.4	4.8	4.0	176.75	0.0	69.9	95.5	87.9	7.63	12.512		
2,300.0	2,291.2	2,298.0	2,296.1	5.1	4.2	176.86	0.2	74.7	101.3	93.4	7.98	12.698		
2,400.0	2,390.6	2,397.8	2,395.8	5.3	4.4	176.95	0.5	79.6	107.2	98.9	8.33	12.868		
2,500.0	2,490.0	2,497.6	2,495.5	5.6	4.6	177.04	0.7	84.4	113.0	104.4	8.68	13.025		
2,600.0	2,589.5	2,597.5	2,595.2	5.9	4.8	177.12	0.9	89.2	118.9	109.9	9.03	13.170		
2,700.0	2,688.9	2,697.3	2,694.9	6.1	5.0	177.19	1.2	94.1	124.7	115.4	9.38	13.304		
2,800.0	2,788.3	2,797.1	2,794.6	6.4	5.2	177.25	1.4	98.9	130.6	120.9	9.73	13.428		
2,900.0	2,887.7	2,896.9	2,894.3	6.6	5.4	177.31	1.6	103.7	136.5	126.4	10.07	13.544		
3,000.0	2,987.2	2,996.8	2,994.1	6.9	5.6	177.36	1.9	108.6	142.3	131.9	10.42	13.652		
3,100.0	3,086.6	3,096.6	3,093.8	7.1	5.8	177.41	2.1	113.4	148.2	137.4	10.77	13.753		
3,200.0	3,186.0	3,196.4	3,193.5	7.4	6.0	177.46	2.3	118.2	154.0	142.9	11.12	13.848		
3,300.0	3,285.5	3,296.3	3,293.2	7.6	6.2	177.50	2.6	123.1	159.9	148.4	11.47	13.937		
3,400.0	3,384.9	3,396.1	3,392.9	7.9	6.4	177.54	2.8	127.9	165.7	153.9	11.82	14.021		
3,500.0	3,484.3	3,495.9	3,492.6	8.1	6.6	177.58	3.0	132.7	171.6	159.4	12.17	14.100		
3,600.0	3,583.7	3,595.7	3,592.3	8.4	6.8	177.61	3.3	137.6	177.4	164.9	12.52	14.174		
3,700.0	3,683.2	3,695.6	3,692.0	8.7	6.9	177.64	3.5	142.4	183.3	170.4	12.87	14.245		
3,800.0	3,782.6	3,795.4	3,791.7	8.9	7.1	177.67	3.7	147.2	189.1	175.9	13.22	14.312		
3,900.0	3,882.0	3,895.2	3,891.5	9.2	7.3	177.70	4.0	152.1	195.0	181.4	13.56	14.375		
4,000.0	3,981.5	3,995.1	3,991.2	9.4	7.5	177.73	4.2	156.9	200.8	186.9	13.91	14.435		
4,100.0	4,080.9	4,094.9	4,090.9	9.7	7.7	177.75	4.4	161.7	206.7	192.4	14.26	14.492		
4,200.0	4,180.3	4,194.7	4,190.6	9.9	7.9	177.78	4.7	166.6	212.6	197.9	14.61	14.547		
4,300.0	4,279.7	4,294.5	4,290.3	10.2	8.1	177.80	4.9	171.4	218.4	203.4	14.96	14.599		
4,400.0	4,379.2	4,394.4	4,390.0	10.4	8.3	177.82	5.1	176.2	224.3	209.0	15.31	14.648		
4,500.0	4,478.6	4,494.2	4,489.7	10.7	8.5	177.84	5.4	181.1	230.1	214.5	15.66	14.696		
4,600.0	4,578.0	4,594.0	4,589.4	11.0	8.7	177.86	5.6	185.9	236.0	220.0	16.01	14.741		
4,700.0	4,677.4	4,693.9	4,689.1	11.2	8.9	177.88	5.8	190.7	241.8	225.5	16.36	14.784		
4,800.0	4,776.9	4,793.7	4,788.9	11.5	9.1	177.89	6.1	195.6	247.7	231.0	16.71	14.826		
4,900.0	4,876.3	4,893.5	4,888.6	11.7	9.3	177.91	6.3	200.4	253.5	236.5	17.05	14.866		
5,000.0	4,975.7	4,993.3	4,988.3	12.0	9.5	177.93	6.5	205.2	259.4	242.0	17.40	14.904		

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

# Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3G-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		
5,100.0	5,075.2	5,093.2	5,088.0	12.2	9.7	177.94	6.8	210.1	265.2	247.5	17.75	14.941		
5,200.0	5,174.6	5,193.0	5,187.7	12.5	9.8	177.96	7.0	214.9	271.1	253.0	18.10	14.976		
5,300.0	5,274.0	5,292.8	5,287.4	12.7	10.0	177.97	7.2	219.7	276.9	258.5	18.45	15,010		
5,400.0	5,373.4	5,392.7	5,387.1	13.0	10.2	177.98	7.5	224.6	282.8	264.0	18.80	15.043		
5,500.0	5,472.9	5,492.5	5,486.8	13.3	10.4	178.00	7.7	229.4	288.7	269.5	19.15	15.075		
5,600.0	5,572.3	5,592.3	5,586.5	13.5	10.6	178.01	7.9	234.2	294.5	275.0	19.50	15.105		
5,700.0	5,671.7	5,692.1	5,686.3	13.8	10.8	178.02	8.2	239.1	300.4	280.5	19.85	15.135		
5,800.0	5,771.2	5,792.0	5,786.0	14.0	11.0	178.03	8.4	243.9	306.2	286.0	20.20	15.163		
5,900.0	5,870.6	5,891.8	5,885.7	14.3	11.2	178.04	8.6	248.7	312.1	291.5	20.54	15.190		
6,000.0	5,970.0	5,991.6	5,985.4	14.5	11.4	178.05	8.9	253.6	317.9	297.0	20.89	15.217		
6,100.0	6,069.4	6,091.5	6,085.1	14.8	11.6	178.06	9.1	258.4	323.8	302.5	21.24	15.242		
6,200.0	6,168.9	6,191.3	6,184.8	15.0	11.8	178.07	9.3	263.2	329.6	308.0	21.59	15.267		
6,300.0	6,268.3	6,291.1	6,284.5	15.3	12.0	178.08	9.6	268.1	335.5	313.6	21.94	15.291		
6,400.0	6,367.7	6,390.9	6,384.2	15.6	12.2	178.09	9.8	272.9	341.3	319.1	22.29	15.314		
6,500.0	6,467.1	6,490.8	6,483.9	15.8	12.4	178.10	10.0	277.7	347.2	324.6	22.64	15.337		
6,600.0	6,566.6	6,590.6	6,583.7	16.1	12.6	178.11	10.3	282.6	353.1	330.1	22.99	15.359		
6,700.0	6,666.0	6,690.4	6,683.4	16.3	12.7	178.12	10.5	287.4	358.9	335.6	23.34	15.380		
6,800.0	6,765.4	6,790.3	6,783.1	16.6	12.9	178.13	10.7	292.2	364.8	341.1	23.69	15.401		
6,900.0	6,864.9	6,884.5	6,877.0	16.8	13.1	177.42	6.3	296.8	371.2	347.2	24.04	15.442		
7,000.0	6,964.3	6,973.5	6,964.0	17.1	13.3	174.71	-11.5	301.0	380.1	355.6	24.45	15.547		
7,100.0	7,063.7	7,055.3	7,040.7	17.3	13.5	141.67	-39.7	304.7	393.2	368.2	25.02	15.716		
7,200.0	7,162.1	7,132.9	7,108.9	17.6	13.7	96.62	-76.2	308.0	409.0	383.2	25.82	15.838		
7,300.0	7,256.7	7,208.0	7,169.8	17.8	13.9	81.84	-120.1	311.0	425.3	398.6	26.67	15.949		
7,400.0	7,344.6	7,281.2	7,223.1	18.1	14.2	73.95	-170.2	313.6	441.0	413.6	27.42	16.085		
7,500.0	7,423.1	7,350.0	7,267.0	18.4	14.6	68.90	-223.0	315.7	455.0	427.1	27.96	16.273		
7,600.0	7,489.8	7,423.9	7,306.7	18.8	15.1	65.39	-285.2	317.6	466.7	438.3	28.39	16.437		
7,700.0	7,542.8	7,500.0	7,338.9	19.3	15.7	63.07	-354.1	319.2	475.4	446.6	28.74	16.542		
7,800.0	7,580.4	7,563.6	7,358.7	19.9	16.2	61.83	-414.5	320.1	480.6	451.6	29.00	16.571		
7,900.0	7,601.5	7,633.1	7,372.5	20.7	16.9	61.41	-482.6	320.8	482.4	452.9	29.45	16.378		
8,000.0	7,606.0	7,702.7	7,377.9	21.6	17.7	61.68	-551.9	321.1	480.9	450.5	30.42	15.809		
8,033.5	7,606.0	7,731.8	7,378.0	21.9	18.0	61.69	-581.0	321.1	480.8	449.7	31.10	15.462		
8,100.0	7,606.0	7,798.2	7,378.0	22.5	18.8	61.69	-647.5	321.1	480.8	448.3	32.54	14.776		
8,200.0	7,606.0	7,898.2	7,378.0	23.6	20.0	61.69	-747.5	321.1	480.8	446.0	34.85	13.798		
8,300.0	7,606.0	7,998.2	7,378.0	24.7	21.4	61.69	-847.5	321.1	480.8	443.6	37.27	12.902		
8,400.0	7,606.0	8,098.2	7,378.0	25.9	22.7	61.69	-947.5	321.1	480.8	441.0	39.78	12.087		
8,500.0	7,606.0	8,198.2	7,378.0	27.2	24.2	61.69	-1,047.5	321.1	480.8	438.5	42.37	11.348		
8,600.0	7,606.0	8,298.2	7,378.0	28.5	25.6	61.69	-1,147.5	321.1	480.8	435.8	45.03	10.679		
8,700.0	7,606.0	8,398.2	7,378.0	29.9	27.1	61.69	-1,247.5	321.1	480.8	433.1	47.73	10.073		
8,800.0	7,606.0	8,498.2	7,378.0	31.3	28.7	61.69	-1,347.5	321.1	480.8	430.3	50.48	9.524		
8,900.0	7,606.0	8,598.2	7,378.0	32.7	30.2	61.69	-1,447.5	321.1	480.8	427.6	53.27	9.026		
9,000.0	7,606.0	8,698.2	7,378.0	34.2	31.8	61.69	-1,547.5	321.1	480.8	424.7	56.09	8.572		
9,100.0	7,606.0	8,798.2	7,378.0	35.7	33.4	61.69	-1,647.5	321.1	480.8	421.9	58.94	8.157		
9,200.0	7,606.0	8,898.2	7,378.0	37.2	35.0	61.69	-1,747.5	321.1	480.8	419.0	61.82	7.778		
9,300.0	7,606.0	8,998.2	7,378.0	38.7	36.6	61.69	-1,847.5	321.1	480.8	416.1	64.71	7.431		
9,400.0	7,606.0	9,098.2	7,378.0	40.3	38.3	61.69	-1,947.5	321.1	480.8	413.2	67.62	7.111		
9,500.0	7,606.0	9,198.2	7,378.0	41.9	39.9	61.69	-2,047.5	321.1	480.8	410.3	70.55	6.816		
9,600.0	7,606.0	9,298.2	7,378.0	43.4	41.6	61.69	-2,147.5	321.1	480.8	407.3	73.49	6.543		
9,700.0	7,606.0	9,398.2	7,378.0	45.0	43.2	61.69	-2,247.5	321.1	480.8	404.4	76.44	6.290		
9,800.0	7,606.0	9,498.2	7,378.0	46.6	44.9	61.69	-2,347.5	321.1	480.8	401.4	79.40	6.056		
9,900.0	7,606.0	9,598.2	7,378.0	48.3	46.6	61.69	-2,447.5	321.1	480.8	398.5	82.37	5.837		
10,000.0	7,606.0	9,698.2	7,378.0	49.9	48.2	61.69	-2,547.5	321.1	480.8	395.5	85.35	5.633		
10,100.0	7,606.0	9,798.2	7,378.0	51.5	49.9	61.69	-2,647.5	321.1	480.8	392.5	88.34	5.443		

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

# Anticollision Report

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

Offset Design S32-T2N-R68W (File) - File 3G-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	7,606.0	9,898.2	7,378.0	53.2	51.6	61.69	-2,747.5	321.1	480.8	389.5	91.34	5.264		
10,300.0	7,606.0	9,998.2	7,378.0	54.8	53.3	61.69	-2,847.5	321.1	480.8	386.5	94.34	5.097		
10,400.0	7,606.0	10,098.2	7,378.0	56.5	55.0	61.69	-2,947.5	321.1	480.8	383.5	97.35	4.939		
10,500.0	7,606.0	10,198.2	7,378.0	58.1	56.7	61.69	-3,047.5	321.1	480.8	380.5	100.36	4.791		
10,600.0	7,606.0	10,298.2	7,378.0	59.8	58.4	61.69	-3,147.5	321.1	480.8	377.4	103.38	4.651		
10,700.0	7,606.0	10,398.2	7,378.0	61.5	60.1	61.69	-3,247.5	321.1	480.8	374.4	106.40	4.519		
10,800.0	7,606.0	10,498.2	7,378.0	63.1	61.8	61.69	-3,347.5	321.1	480.8	371.4	109.43	4.394		
10,900.0	7,606.0	10,598.2	7,378.0	64.8	63.5	61.69	-3,447.5	321.1	480.8	368.4	112.46	4.276		
11,000.0	7,606.0	10,698.2	7,378.0	66.5	65.3	61.69	-3,547.5	321.1	480.8	365.3	115.49	4.163		
11,100.0	7,606.0	10,798.2	7,378.0	68.2	67.0	61.69	-3,647.5	321.1	480.8	362.3	118.53	4.057		
11,200.0	7,606.0	10,898.2	7,378.0	69.9	68.7	61.69	-3,747.5	321.1	480.8	359.3	121.57	3.955		
11,300.0	7,606.0	10,998.2	7,378.0	71.6	70.4	61.69	-3,847.5	321.1	480.8	356.2	124.61	3.859		
11,400.0	7,606.0	11,098.2	7,378.0	73.3	72.1	61.69	-3,947.5	321.1	480.8	353.2	127.66	3.767		
11,500.0	7,606.0	11,198.2	7,378.0	75.0	73.9	61.69	-4,047.5	321.1	480.8	350.1	130.70	3.679		
11,600.0	7,606.0	11,298.2	7,378.0	76.7	75.6	61.69	-4,147.5	321.1	480.8	347.1	133.75	3.595		
11,700.0	7,606.0	11,398.2	7,378.0	78.4	77.3	61.69	-4,247.5	321.1	480.8	344.0	136.80	3.515		
11,800.0	7,606.0	11,498.2	7,378.0	80.1	79.0	61.69	-4,347.5	321.1	480.8	341.0	139.86	3.438		
11,900.0	7,606.0	11,598.2	7,378.0	81.8	80.8	61.69	-4,447.5	321.1	480.8	337.9	142.91	3.365		
12,000.0	7,606.0	11,698.2	7,378.0	83.5	82.5	61.69	-4,547.5	321.1	480.8	334.9	145.97	3.294		
12,100.0	7,606.0	11,798.2	7,378.0	85.2	84.2	61.69	-4,647.5	321.1	480.8	331.8	149.03	3.226		
12,200.0	7,606.0	11,898.2	7,378.0	86.9	86.0	61.69	-4,747.5	321.1	480.8	328.7	152.09	3.162		
12,300.0	7,606.0	11,998.2	7,378.0	88.7	87.7	61.69	-4,847.5	321.1	480.8	325.7	155.15	3.099		
12,400.0	7,606.0	12,098.2	7,378.0	90.4	89.4	61.69	-4,947.5	321.1	480.8	322.6	158.21	3.039		
12,500.0	7,606.0	12,198.2	7,378.0	92.1	91.2	61.69	-5,047.5	321.1	480.8	319.6	161.27	2.981		
12,600.0	7,606.0	12,298.2	7,378.0	93.8	92.9	61.69	-5,147.5	321.1	480.8	316.5	164.34	2.926		
12,700.0	7,606.0	12,405.0	7,378.0	95.5	94.7	61.65	-5,254.3	321.8	480.2	312.8	167.44	2.868		
12,800.0	7,606.0	12,512.9	7,378.0	97.3	96.6	61.50	-5,362.1	324.6	478.0	307.6	170.39	2.805		
12,900.0	7,606.0	12,620.7	7,378.0	99.0	98.5	61.22	-5,469.8	329.3	474.1	301.0	173.14	2.738		
13,000.0	7,606.0	12,720.8	7,378.0	100.7	100.2	60.90	-5,569.7	334.8	469.3	293.7	175.68	2.672		
13,100.0	7,606.0	12,820.7	7,378.0	102.4	102.0	60.57	-5,669.5	340.2	464.6	286.4	178.18	2.607		
13,200.0	7,606.0	12,920.5	7,378.0	104.1	103.7	60.24	-5,769.2	345.6	459.9	279.2	180.65	2.546		
13,300.0	7,606.0	13,020.4	7,378.0	105.9	105.5	59.90	-5,868.9	351.0	455.2	272.1	183.08	2.486		
13,400.0	7,606.0	13,120.2	7,378.0	107.6	107.2	59.56	-5,968.6	356.4	450.5	265.0	185.47	2.429		
13,500.0	7,606.0	13,220.1	7,378.0	109.3	108.9	59.20	-6,068.3	361.9	445.8	258.0	187.82	2.374		
13,600.0	7,606.0	13,319.9	7,378.0	111.1	110.7	58.84	-6,168.0	367.3	441.1	251.0	190.13	2.320		
13,700.0	7,606.0	13,419.8	7,378.0	112.8	112.4	58.47	-6,267.7	372.7	436.5	244.1	192.40	2.269		
13,800.0	7,606.0	13,519.6	7,378.0	114.5	114.2	58.10	-6,367.4	378.1	431.9	237.3	194.62	2.219		
13,900.0	7,606.0	13,619.5	7,378.0	116.3	115.9	57.71	-6,467.1	383.6	427.3	230.5	196.80	2.171		
14,000.0	7,606.0	13,719.3	7,378.0	118.0	117.6	57.32	-6,566.8	389.0	422.7	223.8	198.92	2.125		
14,100.0	7,606.0	13,819.2	7,378.0	119.7	119.4	56.92	-6,666.5	394.4	418.1	217.2	200.99	2.080		
14,122.4	7,606.0	13,822.6	7,378.0	120.1	119.4	56.90	-6,669.9	394.6	417.6	216.2	201.34	2.074 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							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	104.60	-3.6	14.0	14.5					
100.0	100.0	100.0	100.0	0.2	0.2	104.60	-3.6	14.0	14.5	14.2	0.30	47.599		
200.0	200.0	200.0	200.0	0.3	0.3	104.60	-3.6	14.0	14.5	13.8	0.65	22.145		
202.9	202.9	202.9	202.9	0.3	0.3	104.60	-3.6	14.0	14.5	13.8	0.66	21.807		
300.0	300.0	300.2	300.2	0.5	0.5	106.75	-4.0	13.2	13.8	12.8	1.00	13.722		
400.0	400.0	400.3	400.3	0.7	0.7	29.63	-4.9	10.7	11.6	10.3	1.35	8.578		
500.0	500.0	500.2	500.1	0.9	0.9	59.24	-6.5	6.7	8.2	6.5	1.72	4.754		
533.2	533.1	533.3	533.1	0.9	0.9	78.96	-7.2	5.0	7.7	5.9	1.85	4.170	CC, ES, SF	
600.0	599.9	599.7	599.4	1.0	1.1	120.00	-8.8	1.0	10.2	8.1	2.07	4.914		
700.0	699.8	698.6	698.0	1.2	1.3	147.82	-11.6	-6.2	21.0	18.6	2.41	8.731		
800.0	799.5	796.8	795.7	1.4	1.5	157.43	-15.0	-14.9	36.6	33.9	2.74	13.341		
900.0	899.2	894.1	892.4	1.6	1.8	161.84	-19.0	-25.1	55.9	52.9	3.08	18.138		
1,000.0	998.6	990.3	987.8	1.9	2.0	164.28	-23.6	-36.6	78.6	75.2	3.42	22.956		
1,100.0	1,098.0	1,085.7	1,082.2	2.1	2.3	165.64	-28.7	-49.6	103.3	99.6	3.77	27.432		
1,200.0	1,197.5	1,180.2	1,175.4	2.3	2.6	166.44	-34.3	-63.8	129.7	125.5	4.11	31.568		
1,300.0	1,296.9	1,273.9	1,267.6	2.6	2.9	166.92	-40.4	-79.4	157.6	153.1	4.45	35.437		
1,400.0	1,396.3	1,366.7	1,358.6	2.8	3.3	167.21	-47.0	-96.1	187.1	182.3	4.79	39.094		
1,500.0	1,495.8	1,458.5	1,448.4	3.1	3.6	167.40	-54.1	-114.1	218.1	213.0	5.12	42.580		
1,600.0	1,595.2	1,549.4	1,536.9	3.3	4.0	167.50	-61.6	-133.2	250.6	245.2	5.46	45.924		
1,700.0	1,694.6	1,639.4	1,624.3	3.6	4.4	167.56	-69.6	-153.3	284.6	278.9	5.79	49.153		
1,800.0	1,794.0	1,733.2	1,715.2	3.8	4.9	167.60	-78.1	-175.0	319.3	313.2	6.13	52.081		
1,900.0	1,893.5	1,827.0	1,806.0	4.1	5.3	167.62	-86.6	-196.6	354.0	347.5	6.47	54.703		
2,000.0	1,992.9	1,920.8	1,896.9	4.3	5.7	167.65	-95.2	-218.2	388.7	381.9	6.81	57.062		
2,100.0	2,092.3	2,014.5	1,987.7	4.6	6.1	167.67	-103.7	-239.9	423.4	416.2	7.15	59.196		
2,200.0	2,191.8	2,108.3	2,078.6	4.8	6.6	167.68	-112.2	-261.5	458.1	450.6	7.49	61.135		
2,300.0	2,291.2	2,202.1	2,169.5	5.1	7.0	167.70	-120.8	-283.2	492.8	484.9	7.83	62.906		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	89.99	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	19.6	19.6	19.3	0.30	64.488		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	19.6	19.6	18.9	0.65	30.002		
300.0	300.0	300.2	300.2	0.5	0.5	90.28	-0.1	19.4	19.4	18.4	1.00	19.348		
400.0	400.0	400.4	400.4	0.7	0.7	7.38	-0.9	17.8	17.6	16.3	1.35	13.041		
500.0	500.0	500.5	500.4	0.9	0.9	16.08	-2.5	14.7	13.0	11.3	1.70	7.636		
600.0	599.9	600.2	600.0	1.0	1.1	53.28	-4.8	10.0	7.0	4.9	2.08	3.356		
626.4	626.3	626.5	626.2	1.1	1.1	77.04	-5.6	8.6	6.4	4.2	2.19	2.921	CC, ES, SF	
700.0	699.8	699.5	699.0	1.2	1.3	131.93	-8.0	3.9	11.1	8.7	2.42	4.600		
800.0	799.5	798.0	797.1	1.4	1.5	152.52	-11.8	-3.8	25.2	22.5	2.75	9.179		
900.0	899.2	895.6	894.3	1.6	1.7	158.89	-16.4	-12.8	43.5	40.5	3.09	14.086		
1,000.0	998.6	992.3	990.2	1.9	2.0	161.82	-21.7	-23.3	65.2	61.8	3.43	18.995		
1,100.0	1,098.0	1,088.1	1,085.1	2.1	2.2	163.27	-27.6	-35.0	89.0	85.2	3.78	23.539		
1,200.0	1,197.5	1,183.2	1,179.1	2.3	2.5	164.00	-34.2	-48.1	114.3	110.2	4.12	27.721		
1,300.0	1,296.9	1,277.4	1,271.9	2.6	2.8	164.39	-41.5	-62.4	141.3	136.8	4.47	31.619		
1,400.0	1,396.3	1,370.7	1,363.6	2.8	3.2	164.59	-49.3	-77.9	169.8	165.0	4.81	35.292		
1,500.0	1,495.8	1,463.3	1,454.3	3.1	3.5	164.67	-57.8	-94.6	199.9	194.7	5.15	38.783		
1,600.0	1,595.2	1,558.5	1,547.3	3.3	3.9	164.71	-66.8	-112.4	230.6	225.1	5.50	41.921		
1,700.0	1,694.6	1,653.7	1,640.4	3.6	4.2	164.74	-75.8	-130.1	261.3	255.5	5.85	44.687		
1,800.0	1,794.0	1,748.8	1,733.5	3.8	4.6	164.76	-84.7	-147.9	292.0	285.8	6.19	47.142		
1,900.0	1,893.5	1,844.0	1,826.5	4.1	5.0	164.78	-93.7	-165.7	322.8	316.2	6.54	49.335		
2,000.0	1,992.9	1,939.2	1,919.6	4.3	5.4	164.80	-102.7	-183.4	353.5	346.6	6.89	51.305		
2,100.0	2,092.3	2,034.3	2,012.6	4.6	5.8	164.81	-111.7	-201.2	384.2	377.0	7.24	53.086		
2,200.0	2,191.8	2,129.5	2,105.7	4.8	6.1	164.82	-120.7	-218.9	415.0	407.4	7.59	54.702		
2,300.0	2,291.2	2,224.6	2,198.7	5.1	6.5	164.83	-129.7	-236.7	445.7	437.7	7.93	56.175		
2,400.0	2,390.6	2,319.8	2,291.8	5.3	6.9	164.84	-138.7	-254.5	476.4	468.1	8.28	57.524		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	98.22	-3.6	25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	98.22	-3.6	25.2	25.4	25.1	0.30	83.774		
200.0	200.0	200.0	200.0	0.3	0.3	98.22	-3.6	25.2	25.4	24.8	0.65	38.975		
300.0	300.0	300.0	300.0	0.5	0.5	98.22	-3.6	25.2	25.4	24.4	1.00	25.395		
400.0	400.0	400.2	400.2	0.7	0.7	13.12	-3.8	25.0	25.1	23.7	1.35	18.554		
500.0	500.0	500.4	500.4	0.9	0.9	17.28	-4.8	23.6	22.2	20.5	1.70	13.025		
600.0	599.9	600.4	600.3	1.0	1.0	29.72	-6.8	20.7	16.9	14.8	2.06	8.201		
700.0	699.8	699.9	699.7	1.2	1.2	65.87	-9.7	16.4	12.0	9.6	2.44	4.936		
715.6	715.3	715.4	715.1	1.3	1.3	74.76	-10.3	15.6	11.9	9.4	2.50	4.754	CC, ES, SF	
800.0	799.5	798.9	798.4	1.4	1.4	118.56	-13.7	10.8	16.6	13.8	2.80	5.930		
900.0	899.2	897.1	896.3	1.6	1.6	141.54	-18.6	3.8	30.7	27.5	3.12	9.821		
1,000.0	998.6	994.4	993.1	1.9	1.9	150.49	-24.3	-4.5	49.6	46.1	3.46	14.330		
1,100.0	1,098.0	1,091.0	1,088.9	2.1	2.1	154.49	-31.0	-14.1	71.0	67.2	3.81	18.655		
1,200.0	1,197.5	1,186.8	1,183.9	2.3	2.4	156.50	-38.5	-24.9	94.3	90.1	4.16	22.681		
1,300.0	1,296.9	1,282.2	1,278.1	2.6	2.7	157.60	-46.9	-36.9	119.2	114.6	4.51	26.443		
1,400.0	1,396.3	1,378.9	1,373.6	2.8	2.9	158.30	-55.7	-49.5	144.6	139.8	4.86	29.764		
1,500.0	1,495.8	1,475.6	1,469.0	3.1	3.2	158.79	-64.5	-62.2	170.1	164.9	5.21	32.632		
1,600.0	1,595.2	1,572.3	1,564.4	3.3	3.5	159.15	-73.4	-74.8	195.6	190.1	5.57	35.132		
1,700.0	1,694.6	1,669.0	1,659.9	3.6	3.9	159.42	-82.2	-87.5	221.2	215.2	5.92	37.331		
1,800.0	1,794.0	1,765.6	1,755.3	3.8	4.2	159.64	-91.0	-100.1	246.7	240.4	6.28	39.278		
1,900.0	1,893.5	1,862.3	1,850.8	4.1	4.5	159.82	-99.8	-112.8	272.2	265.6	6.64	41.014		
2,000.0	1,992.9	1,959.0	1,946.2	4.3	4.8	159.97	-108.6	-125.4	297.7	290.7	6.99	42.572		
2,100.0	2,092.3	2,055.7	2,041.7	4.6	5.1	160.10	-117.4	-138.1	323.2	315.9	7.35	43.977		
2,200.0	2,191.8	2,152.4	2,137.1	4.8	5.4	160.20	-126.3	-150.7	348.8	341.1	7.71	45.252		
2,300.0	2,291.2	2,249.1	2,232.6	5.1	5.7	160.29	-135.1	-163.4	374.3	366.2	8.06	46.412		
2,400.0	2,390.6	2,345.8	2,328.0	5.3	6.0	160.37	-143.9	-176.0	399.8	391.4	8.42	47.473		
2,500.0	2,490.0	2,442.4	2,423.5	5.6	6.3	160.45	-152.7	-188.7	425.3	416.6	8.78	48.447		
2,600.0	2,589.5	2,539.1	2,518.9	5.9	6.7	160.51	-161.5	-201.3	450.9	441.7	9.14	49.344		
2,700.0	2,688.9	2,635.8	2,614.4	6.1	7.0	160.56	-170.4	-214.0	476.4	466.9	9.49	50.173		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	89.99	0.0	28.0	28.0					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	28.0	28.0	27.7	0.30	92.126		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	28.0	28.0	27.3	0.65	42.861		
300.0	300.0	300.0	300.0	0.5	0.5	89.99	0.0	28.0	28.0	27.0	1.00	27.927		
400.0	400.0	400.0	400.0	0.7	0.7	4.47	0.0	28.0	27.8	26.4	1.35	20.550		
500.0	500.0	500.3	500.3	0.9	0.9	6.26	-0.7	27.4	25.5	23.8	1.70	14.970		
600.0	599.9	600.3	600.3	1.0	1.0	13.04	-2.6	25.7	20.5	18.4	2.05	9.972		
700.0	699.8	700.1	699.9	1.2	1.2	33.50	-5.9	22.8	13.9	11.5	2.42	5.742		
770.2	769.8	769.8	769.5	1.4	1.3	69.31	-9.0	20.1	11.2	8.5	2.70	4.150 CC, ES, SF		
800.0	799.5	799.3	799.0	1.4	1.4	88.48	-10.4	18.8	11.9	9.1	2.81	4.224		
900.0	899.2	897.9	897.2	1.6	1.6	128.49	-16.2	13.7	22.3	19.1	3.15	7.080		
1,000.0	998.6	995.6	994.6	1.9	1.8	141.96	-23.2	7.6	39.2	35.8	3.49	11.250		
1,100.0	1,098.0	1,092.8	1,091.1	2.1	2.1	147.08	-31.4	0.4	59.0	55.1	3.84	15.349		
1,200.0	1,197.5	1,190.1	1,187.7	2.3	2.3	149.41	-40.6	-7.7	80.2	76.0	4.20	19.074		
1,300.0	1,296.9	1,287.8	1,284.6	2.6	2.6	150.76	-49.8	-15.8	101.5	96.9	4.57	22.226		
1,400.0	1,396.3	1,385.5	1,381.5	2.8	2.8	151.64	-59.0	-23.9	122.9	117.9	4.93	24.911		
1,500.0	1,495.8	1,483.2	1,478.4	3.1	3.1	152.26	-68.3	-32.0	144.3	139.0	5.30	27.222		
1,600.0	1,595.2	1,580.8	1,575.3	3.3	3.3	152.72	-77.5	-40.1	165.7	160.0	5.67	29.230		
1,700.0	1,694.6	1,678.5	1,672.2	3.6	3.6	153.07	-86.8	-48.2	187.1	181.1	6.04	30.990		
1,800.0	1,794.0	1,776.2	1,769.1	3.8	3.9	153.35	-96.0	-56.3	208.5	202.1	6.41	32.545		
1,900.0	1,893.5	1,873.9	1,866.0	4.1	4.1	153.58	-105.2	-64.4	229.9	223.2	6.78	33.929		
2,000.0	1,992.9	1,971.5	1,962.9	4.3	4.4	153.77	-114.5	-72.6	251.4	244.2	7.15	35.167		
2,100.0	2,092.3	2,069.2	2,059.8	4.6	4.7	153.93	-123.7	-80.7	272.8	265.3	7.52	36.282		
2,200.0	2,191.8	2,166.9	2,156.7	4.8	4.9	154.07	-132.9	-88.8	294.2	286.3	7.89	37.291		
2,300.0	2,291.2	2,264.6	2,253.6	5.1	5.2	154.19	-142.2	-96.9	315.7	307.4	8.26	38.208		
2,400.0	2,390.6	2,362.2	2,350.5	5.3	5.5	154.29	-151.4	-105.0	337.1	328.5	8.63	39.045		
2,500.0	2,490.0	2,459.9	2,447.4	5.6	5.8	154.38	-160.6	-113.1	358.5	349.5	9.01	39.812		
2,600.0	2,589.5	2,557.6	2,544.3	5.9	6.0	154.46	-169.9	-121.2	380.0	370.6	9.38	40.518		
2,700.0	2,688.9	2,655.3	2,641.2	6.1	6.3	154.54	-179.1	-129.3	401.4	391.6	9.75	41.169		
2,800.0	2,788.3	2,752.9	2,738.1	6.4	6.6	154.60	-188.4	-137.5	422.8	412.7	10.12	41.772		
2,900.0	2,887.7	2,850.6	2,834.9	6.6	6.8	154.66	-197.6	-145.6	444.3	433.8	10.50	42.331		
3,000.0	2,987.2	2,948.3	2,931.8	6.9	7.1	154.71	-206.8	-153.7	465.7	454.8	10.87	42.852		
3,100.0	3,086.6	3,046.0	3,028.7	7.1	7.4	154.76	-216.1	-161.8	487.1	475.9	11.24	43.338		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	94.65	-3.6	44.8	44.9					
100.0	100.0	100.0	100.0	0.2	0.2	94.65	-3.6	44.8	44.9	44.6	0.30	147.887		
200.0	200.0	200.0	200.0	0.3	0.3	94.65	-3.6	44.8	44.9	44.3	0.65	68.803		
202.7	202.7	202.7	202.7	0.3	0.3	94.65	-3.6	44.8	44.9	44.2	0.66	67.813		
300.0	300.0	300.2	300.2	0.5	0.5	95.73	-4.5	44.5	44.7	43.7	1.00	44.599		
400.0	400.0	400.3	400.3	0.7	0.7	13.55	-6.9	43.6	43.9	42.6	1.36	32.368		
500.0	500.0	500.3	500.1	0.9	0.9	20.03	-11.1	42.1	41.7	40.0	1.72	24.261		
600.0	599.9	599.9	599.6	1.0	1.1	30.85	-16.8	40.1	38.7	36.6	2.09	18.493		
700.0	699.8	699.1	698.5	1.2	1.3	47.28	-24.1	37.5	36.7	34.2	2.48	14.803		
716.9	716.6	715.8	715.1	1.3	1.3	50.59	-25.5	37.0	36.6	34.1	2.54	14.401 CC, ES		
800.0	799.5	798.1	797.1	1.4	1.5	67.84	-32.7	34.5	38.1	35.2	2.86	13.337 SF		
900.0	899.2	897.0	895.5	1.6	1.7	87.20	-41.3	31.5	43.8	40.6	3.22	13.602		
1,000.0	998.6	995.6	993.7	1.9	2.0	102.63	-49.9	28.4	53.6	50.0	3.59	14.953		
1,100.0	1,098.0	1,094.2	1,091.9	2.1	2.2	113.16	-58.5	25.4	66.2	62.3	3.96	16.732		
1,200.0	1,197.5	1,192.8	1,190.1	2.3	2.4	120.20	-67.1	22.3	80.3	76.0	4.34	18.521		
1,300.0	1,296.9	1,291.4	1,288.3	2.6	2.6	125.10	-75.8	19.3	95.3	90.5	4.72	20.180		
1,400.0	1,396.3	1,390.0	1,386.4	2.8	2.9	128.66	-84.4	16.3	110.7	105.6	5.11	21.677		
1,500.0	1,495.8	1,488.6	1,484.6	3.1	3.1	131.35	-93.0	13.2	126.4	120.9	5.49	23.013		
1,600.0	1,595.2	1,587.2	1,582.8	3.3	3.3	133.43	-101.6	10.2	142.4	136.5	5.88	24.205		
1,700.0	1,694.6	1,685.8	1,681.0	3.6	3.6	135.10	-110.2	7.2	158.5	152.2	6.27	25.270		
1,800.0	1,794.0	1,784.4	1,779.2	3.8	3.8	136.46	-118.8	4.1	174.7	168.0	6.66	26.223		
1,900.0	1,893.5	1,883.0	1,877.3	4.1	4.0	137.58	-127.4	1.1	191.0	183.9	7.05	27.081		
2,000.0	1,992.9	1,981.6	1,975.5	4.3	4.3	138.53	-136.0	-2.0	207.4	199.9	7.44	27.856		
2,100.0	2,092.3	2,080.2	2,073.7	4.6	4.5	139.34	-144.6	-5.0	223.8	215.9	7.83	28.559		
2,200.0	2,191.8	2,178.8	2,171.9	4.8	4.7	140.04	-153.2	-8.0	240.2	232.0	8.23	29.199		
2,300.0	2,291.2	2,277.4	2,270.0	5.1	5.0	140.65	-161.8	-11.1	256.7	248.0	8.62	29.783		
2,400.0	2,390.6	2,376.0	2,368.2	5.3	5.2	141.19	-170.4	-14.1	273.1	264.1	9.01	30.319		
2,500.0	2,490.0	2,474.6	2,466.4	5.6	5.4	141.67	-179.1	-17.2	289.7	280.3	9.40	30.813		
2,600.0	2,589.5	2,573.2	2,564.6	5.9	5.7	142.09	-187.7	-20.2	306.2	296.4	9.79	31.268		
2,700.0	2,688.9	2,671.8	2,662.7	6.1	5.9	142.47	-196.3	-23.2	322.7	312.6	10.18	31.689		
2,800.0	2,788.3	2,770.4	2,760.9	6.4	6.1	142.82	-204.9	-26.3	339.3	328.7	10.58	32.080		
2,900.0	2,887.7	2,869.0	2,859.1	6.6	6.4	143.13	-213.5	-29.3	355.9	344.9	10.97	32.444		
3,000.0	2,987.2	2,967.6	2,957.3	6.9	6.6	143.41	-222.1	-32.3	372.4	361.1	11.36	32.784		
3,100.0	3,086.6	3,066.2	3,055.5	7.1	6.8	143.67	-230.7	-35.4	389.0	377.3	11.75	33.101		
3,200.0	3,186.0	3,164.8	3,153.6	7.4	7.1	143.91	-239.3	-38.4	405.6	393.5	12.14	33.398		
3,300.0	3,285.5	3,263.4	3,251.8	7.6	7.3	144.13	-247.9	-41.5	422.2	409.7	12.54	33.677		
3,400.0	3,384.9	3,362.0	3,350.0	7.9	7.5	144.33	-256.5	-44.5	438.8	425.9	12.93	33.940		
3,500.0	3,484.3	3,460.6	3,448.2	8.1	7.8	144.52	-265.1	-47.5	455.4	442.1	13.32	34.187		
3,600.0	3,583.7	3,559.2	3,546.3	8.4	8.0	144.70	-273.7	-50.6	472.1	458.3	13.71	34.421		
3,700.0	3,683.2	3,657.8	3,644.5	8.7	8.2	144.86	-282.4	-53.6	488.7	474.6	14.11	34.641		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		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	47.6	47.6					
100.0	100.0	100.0	100.0	0.2	0.2	89.99	0.0	47.6	47.6	47.3	0.30	156.613		
200.0	200.0	200.0	200.0	0.3	0.3	89.99	0.0	47.6	47.6	46.9	0.65	72.863		
300.0	300.0	300.0	300.0	0.5	0.5	89.99	0.0	47.6	47.6	46.6	1.00	47.475		
400.0	400.0	399.8	399.8	0.7	0.7	5.48	-0.8	47.7	47.5	46.2	1.35	35.171		
500.0	500.0	499.6	499.5	0.9	0.9	8.83	-3.4	48.2	46.4	44.7	1.70	27.253		
600.0	599.9	599.2	599.1	1.0	1.0	14.92	-7.7	49.1	44.4	42.3	2.06	21.545		
700.0	699.8	698.6	698.3	1.2	1.2	24.41	-13.6	50.3	42.2	39.8	2.43	17.395		
800.0	799.5	797.7	797.0	1.4	1.4	37.75	-21.2	51.8	41.0	38.2	2.80	14.667		
803.2	802.7	800.8	800.1	1.4	1.4	38.23	-21.4	51.9	41.0	38.2	2.81	14.605 CC, ES		
900.0	899.2	896.7	895.7	1.6	1.7	53.90	-30.1	53.6	42.3	39.2	3.18	13.321		
1,000.0	998.6	995.9	994.4	1.9	1.9	69.93	-39.3	55.4	46.3	42.7	3.58	12.941 SF		
1,100.0	1,098.0	1,095.0	1,093.1	2.1	2.1	83.03	-48.4	57.2	53.2	49.2	3.99	13.331		
1,200.0	1,197.5	1,194.1	1,191.7	2.3	2.3	92.78	-57.5	59.1	62.2	57.8	4.42	14.098		
1,300.0	1,296.9	1,293.2	1,290.4	2.6	2.6	99.92	-66.6	60.9	72.6	67.8	4.84	14.993		
1,400.0	1,396.3	1,392.3	1,389.1	2.8	2.8	105.23	-75.7	62.7	83.8	78.5	5.27	15.896		
1,500.0	1,495.8	1,491.4	1,487.8	3.1	3.0	109.27	-84.8	64.5	95.5	89.8	5.70	16.756		
1,600.0	1,595.2	1,590.5	1,586.4	3.3	3.3	112.41	-93.9	66.4	107.7	101.5	6.13	17.554		
1,700.0	1,694.6	1,689.6	1,685.1	3.6	3.5	114.92	-103.0	68.2	120.0	113.5	6.56	18.285		
1,800.0	1,794.0	1,788.7	1,783.8	3.8	3.7	116.95	-112.1	70.0	132.6	125.6	6.99	18.952		
1,900.0	1,893.5	1,887.9	1,882.4	4.1	4.0	118.64	-121.2	71.8	145.2	137.8	7.43	19.559		
2,000.0	1,992.9	1,987.0	1,981.1	4.3	4.2	120.05	-130.4	73.7	158.0	150.2	7.86	20.113		
2,100.0	2,092.3	2,086.1	2,079.8	4.6	4.4	121.25	-139.5	75.5	170.9	162.6	8.29	20.619		
2,200.0	2,191.8	2,185.2	2,178.5	4.8	4.7	122.28	-148.6	77.3	183.8	175.1	8.72	21.081		
2,300.0	2,291.2	2,284.3	2,277.1	5.1	4.9	123.17	-157.7	79.1	196.8	187.7	9.15	21.506		
2,400.0	2,390.6	2,383.4	2,375.8	5.3	5.1	123.96	-166.8	81.0	209.8	200.3	9.58	21.896		
2,500.0	2,490.0	2,482.5	2,474.5	5.6	5.4	124.65	-175.9	82.8	222.9	212.9	10.02	22.256		
2,600.0	2,589.5	2,581.6	2,573.2	5.9	5.6	125.27	-185.0	84.6	236.0	225.5	10.45	22.589		
2,700.0	2,688.9	2,680.7	2,671.8	6.1	5.8	125.82	-194.1	86.4	249.1	238.2	10.88	22.897		
2,800.0	2,788.3	2,779.8	2,770.5	6.4	6.1	126.32	-203.2	88.3	262.2	250.9	11.31	23.184		
2,900.0	2,887.7	2,879.0	2,869.2	6.6	6.3	126.76	-212.3	90.1	275.4	263.6	11.74	23.450		
3,000.0	2,987.2	2,978.1	2,967.9	6.9	6.6	127.17	-221.5	91.9	288.5	276.4	12.17	23.699		
3,100.0	3,086.6	3,077.2	3,066.5	7.1	6.8	127.54	-230.6	93.7	301.7	289.1	12.61	23.932		
3,200.0	3,186.0	3,176.3	3,165.2	7.4	7.0	127.89	-239.7	95.6	314.9	301.9	13.04	24.151		
3,300.0	3,285.5	3,275.4	3,263.9	7.6	7.3	128.20	-248.8	97.4	328.1	314.6	13.47	24.356		
3,400.0	3,384.9	3,374.5	3,362.5	7.9	7.5	128.49	-257.9	99.2	341.3	327.4	13.90	24.549		
3,500.0	3,484.3	3,473.6	3,461.2	8.1	7.7	128.76	-267.0	101.0	354.5	340.2	14.34	24.730		
3,600.0	3,583.7	3,572.7	3,559.9	8.4	8.0	129.01	-276.1	102.9	367.7	353.0	14.77	24.902		
3,700.0	3,683.2	3,671.8	3,658.6	8.7	8.2	129.24	-285.2	104.7	381.0	365.8	15.20	25.064		
3,800.0	3,782.6	3,770.9	3,757.2	8.9	8.4	129.45	-294.3	106.5	394.2	378.6	15.63	25.217		
3,900.0	3,882.0	3,870.1	3,855.9	9.2	8.7	129.66	-303.4	108.3	407.4	391.4	16.06	25.363		
4,000.0	3,981.5	3,969.2	3,954.6	9.4	8.9	129.84	-312.6	110.2	420.7	404.2	16.50	25.501		
4,100.0	4,080.9	4,068.3	4,053.3	9.7	9.2	130.02	-321.7	112.0	433.9	417.0	16.93	25.632		
4,200.0	4,180.3	4,167.4	4,151.9	9.9	9.4	130.19	-330.8	113.8	447.2	429.8	17.36	25.757		
4,300.0	4,279.7	4,266.5	4,250.6	10.2	9.6	130.35	-339.9	115.6	460.4	442.6	17.79	25.876		
4,400.0	4,379.2	4,365.6	4,349.3	10.4	9.9	130.50	-349.0	117.4	473.7	455.5	18.23	25.990		
4,500.0	4,478.6	4,464.7	4,448.0	10.7	10.1	130.64	-358.1	119.3	487.0	468.3	18.66	26.098		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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)				
0.0	0.0	0.0	0.0	0.0	0.0	93.92	-3.6	53.2	53.3					
100.0	100.0	100.0	100.0	0.2	0.2	93.92	-3.6	53.2	53.3	53.0	0.30	175.448		
200.0	200.0	200.0	200.0	0.3	0.3	93.92	-3.6	53.2	53.3	52.6	0.65	81.626		
233.5	233.5	233.5	233.5	0.4	0.4	93.92	-3.6	53.2	53.3	52.5	0.77	69.240	CC	
300.0	300.0	299.7	299.7	0.5	0.5	94.09	-3.8	53.3	53.4	52.4	1.00	53.353	ES	
400.0	400.0	399.1	399.0	0.7	0.7	9.94	-5.2	54.3	54.4	53.0	1.35	40.257		
500.0	500.0	498.4	498.3	0.9	0.9	12.89	-7.9	56.4	55.1	53.4	1.70	32.352		
600.0	599.9	597.6	597.3	1.0	1.0	17.44	-12.1	59.5	55.5	53.5	2.06	27.009		
700.0	699.8	696.6	696.2	1.2	1.2	23.54	-17.6	63.6	56.2	53.7	2.41	23.280		
800.0	799.5	795.5	794.6	1.4	1.5	31.07	-24.4	68.7	57.5	54.7	2.77	20.728		
900.0	899.2	894.2	892.8	1.6	1.7	39.68	-32.6	74.9	60.0	56.8	3.14	19.109		
1,000.0	998.6	993.7	991.7	1.9	1.9	48.68	-41.4	81.5	63.4	59.8	3.52	17.981		
1,100.0	1,098.0	1,093.1	1,090.5	2.1	2.2	56.86	-50.2	88.1	68.0	64.0	3.93	17.287		
1,200.0	1,197.5	1,192.6	1,189.4	2.3	2.4	63.88	-59.0	94.7	73.8	69.4	4.36	16.918		
1,300.0	1,296.9	1,292.0	1,288.2	2.6	2.7	69.81	-67.8	101.3	80.5	75.7	4.81	16.751		
1,400.0	1,396.3	1,391.5	1,387.1	2.8	2.9	74.79	-76.6	107.9	88.0	82.8	5.27	16.709		
1,500.0	1,495.8	1,490.9	1,485.9	3.1	3.2	78.96	-85.4	114.5	96.1	90.3	5.74	16.745		
1,600.0	1,595.2	1,590.4	1,584.7	3.3	3.4	82.47	-94.2	121.1	104.5	98.3	6.21	16.829		
1,700.0	1,694.6	1,689.8	1,683.6	3.6	3.7	85.45	-102.9	127.7	113.3	106.6	6.69	16.941		
1,800.0	1,794.0	1,789.3	1,782.4	3.8	4.0	88.00	-111.7	134.3	122.4	115.2	7.17	17.068		
1,900.0	1,893.5	1,888.7	1,881.3	4.1	4.2	90.19	-120.5	140.9	131.7	124.0	7.65	17.204		
2,000.0	1,992.9	1,988.2	1,980.1	4.3	4.5	92.09	-129.3	147.5	141.1	133.0	8.14	17.342		
2,100.0	2,092.3	2,087.6	2,078.9	4.6	4.7	93.76	-138.1	154.1	150.7	142.1	8.62	17.479		
2,200.0	2,191.8	2,187.1	2,177.8	4.8	5.0	95.22	-146.9	160.7	160.4	151.3	9.10	17.613		
2,300.0	2,291.2	2,286.5	2,276.6	5.1	5.2	96.52	-155.7	167.3	170.1	160.5	9.59	17.743		
2,400.0	2,390.6	2,386.0	2,375.5	5.3	5.5	97.67	-164.5	173.9	180.0	169.9	10.07	17.869		
2,500.0	2,490.0	2,485.4	2,474.3	5.6	5.8	98.71	-173.3	180.5	189.9	179.3	10.56	17.989		
2,600.0	2,589.5	2,584.9	2,573.2	5.9	6.0	99.64	-182.1	187.1	199.9	188.8	11.04	18.104		
2,700.0	2,688.9	2,684.3	2,672.0	6.1	6.3	100.48	-190.9	193.7	209.9	198.4	11.52	18.214		
2,800.0	2,788.3	2,783.8	2,770.8	6.4	6.5	101.25	-199.7	200.3	219.9	207.9	12.01	18.318		
2,900.0	2,887.7	2,883.2	2,869.7	6.6	6.8	101.95	-208.5	206.9	230.0	217.6	12.49	18.417		
3,000.0	2,987.2	2,982.7	2,968.5	6.9	7.0	102.59	-217.3	213.5	240.2	227.2	12.97	18.512		
3,100.0	3,086.6	3,082.1	3,067.4	7.1	7.3	103.18	-226.1	220.1	250.3	236.9	13.46	18.602		
3,200.0	3,186.0	3,181.6	3,166.2	7.4	7.6	103.72	-234.9	226.7	260.5	246.6	13.94	18.687		
3,300.0	3,285.5	3,281.0	3,265.0	7.6	7.8	104.22	-243.7	233.3	270.7	256.3	14.42	18.769		
3,400.0	3,384.9	3,380.5	3,363.9	7.9	8.1	104.69	-252.5	239.9	280.9	266.0	14.91	18.846		
3,500.0	3,484.3	3,479.9	3,462.7	8.1	8.3	105.12	-261.3	246.5	291.2	275.8	15.39	18.920		
3,600.0	3,583.7	3,579.4	3,561.6	8.4	8.6	105.52	-270.1	253.1	301.4	285.5	15.87	18.991		
3,700.0	3,683.2	3,678.8	3,660.4	8.7	8.8	105.90	-278.9	259.7	311.7	295.3	16.35	19.058		
3,800.0	3,782.6	3,778.3	3,759.3	8.9	9.1	106.25	-287.7	266.3	321.9	305.1	16.84	19.123		
3,900.0	3,882.0	3,877.8	3,858.1	9.2	9.4	106.58	-296.5	272.9	332.2	314.9	17.32	19.184		
4,000.0	3,981.5	3,977.2	3,956.9	9.4	9.6	106.89	-305.3	279.5	342.5	324.7	17.80	19.243		
4,100.0	4,080.9	4,076.7	4,055.8	9.7	9.9	107.19	-314.1	286.1	352.8	334.6	18.28	19.300		
4,200.0	4,180.3	4,176.1	4,154.6	9.9	10.1	107.46	-322.9	292.7	363.2	344.4	18.76	19.353		
4,300.0	4,279.7	4,275.6	4,253.5	10.2	10.4	107.72	-331.7	299.3	373.5	354.2	19.25	19.405		
4,400.0	4,379.2	4,375.0	4,352.3	10.4	10.7	107.97	-340.5	305.9	383.8	364.1	19.73	19.455		
4,500.0	4,478.6	4,474.5	4,451.1	10.7	10.9	108.21	-349.3	312.5	394.2	373.9	20.21	19.502		
4,600.0	4,578.0	4,573.9	4,550.0	11.0	11.2	108.43	-358.1	319.1	404.5	383.8	20.69	19.548		
4,700.0	4,677.4	4,673.4	4,648.8	11.2	11.4	108.64	-366.9	325.7	414.9	393.7	21.17	19.592		
4,800.0	4,776.9	4,772.8	4,747.7	11.5	11.7	108.84	-375.7	332.3	425.2	403.6	21.66	19.635		
4,900.0	4,876.3	4,872.3	4,846.5	11.7	11.9	109.03	-384.5	338.9	435.6	413.4	22.14	19.675		
5,000.0	4,975.7	4,971.7	4,945.4	12.0	12.2	109.21	-393.3	345.5	445.9	423.3	22.62	19.715		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,075.2	5,071.2	5,044.2	12.2	12.5	109.39	-402.1	352.1	456.3	433.2	23.10	19.752		
5,200.0	5,174.6	5,170.6	5,143.0	12.5	12.7	109.55	-410.9	358.7	466.7	443.1	23.58	19.789		
5,300.0	5,274.0	5,270.1	5,241.9	12.7	13.0	109.71	-419.7	365.3	477.1	453.0	24.06	19.824		
5,400.0	5,373.4	5,369.5	5,340.7	13.0	13.2	109.86	-428.4	371.9	487.4	462.9	24.55	19.858		
5,500.0	5,472.9	5,469.0	5,439.6	13.3	13.5	110.01	-437.2	378.5	497.8	472.8	25.03	19.891		
7,200.0	7,162.1	8,016.3	7,606.0	17.6	16.3	138.88	38.9	523.1	476.7	448.6	28.08	16.975		
7,300.0	7,256.7	7,985.9	7,606.0	17.8	16.2	135.43	8.5	523.1	394.8	366.6	28.15	14.022		
7,400.0	7,344.6	7,913.5	7,602.9	18.1	16.1	126.98	-63.8	522.9	323.8	296.8	26.95	12.015		
7,500.0	7,423.1	7,840.7	7,590.7	18.4	16.1	117.11	-135.5	522.1	265.6	239.2	26.33	10.087		
7,600.0	7,489.8	7,775.8	7,572.3	18.8	16.1	106.14	-197.7	520.9	228.0	201.0	27.00	8.444		
7,681.8	7,534.3	7,726.0	7,553.5	19.2	16.2	95.80	-243.8	519.6	218.0	189.7	28.25	7.716		
7,700.0	7,542.8	7,715.2	7,548.9	19.3	16.2	93.35	-253.5	519.3	218.4	189.9	28.52	7.660 SF		
7,800.0	7,580.4	7,657.2	7,521.1	19.9	16.4	79.55	-304.4	517.4	236.4	206.8	29.52	8.008		
7,900.0	7,601.5	7,600.0	7,488.8	20.7	16.6	66.40	-351.5	515.3	272.4	243.5	28.87	9.436		
8,000.0	7,606.0	7,550.0	7,456.9	21.6	16.7	57.18	-389.9	513.2	317.1	289.5	27.54	11.512		
8,100.0	7,606.0	7,500.0	7,421.7	22.5	16.9	51.72	-425.3	510.8	371.3	343.9	27.38	13.561		
8,200.0	7,606.0	7,450.0	7,383.6	23.6	17.1	46.71	-457.6	508.3	435.1	407.9	27.11	16.046		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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						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	90.00	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 CC, ES		
300.0	300.0	299.2	299.2	0.5	0.5	90.50	-0.5	59.4	59.4	58.4	1.00	59.378		
400.0	400.0	398.3	398.3	0.7	0.7	6.41	-2.1	61.5	61.3	60.0	1.35	45.415		
500.0	500.0	497.4	497.2	0.9	0.9	8.86	-4.7	64.9	63.1	61.4	1.70	37.123		
600.0	599.9	596.3	596.0	1.0	1.1	12.23	-8.4	69.6	64.9	62.8	2.05	31.594		
700.0	699.8	695.2	694.6	1.2	1.3	16.46	-13.1	75.7	66.7	64.3	2.41	27.715		
800.0	799.5	793.9	792.9	1.4	1.5	21.46	-18.8	83.1	68.8	66.1	2.76	24.946		
900.0	899.2	892.5	890.8	1.6	1.7	27.09	-25.6	91.8	71.6	68.5	3.12	22.977		
1,000.0	998.6	990.9	988.4	1.9	2.0	33.12	-33.3	101.9	75.3	71.8	3.48	21.636		
1,100.0	1,098.0	1,089.4	1,085.8	2.1	2.3	38.76	-42.1	113.2	81.2	77.4	3.86	21.031		
1,200.0	1,197.5	1,188.9	1,184.2	2.3	2.6	43.65	-51.3	125.1	88.3	84.1	4.26	20.727		
1,300.0	1,296.9	1,288.4	1,282.5	2.6	2.9	47.78	-60.4	137.0	96.0	91.3	4.68	20.519		
1,400.0	1,396.3	1,387.8	1,380.9	2.8	3.2	51.30	-69.6	148.8	104.0	98.9	5.11	20.367		
1,500.0	1,495.8	1,487.3	1,479.2	3.1	3.5	54.30	-78.8	160.7	112.4	106.9	5.55	20.250		
1,600.0	1,595.2	1,586.8	1,577.6	3.3	3.8	56.87	-87.9	172.5	121.1	115.1	6.01	20.158		
1,700.0	1,694.6	1,686.3	1,675.9	3.6	4.1	59.10	-97.1	184.4	130.0	123.5	6.47	20.083		
1,800.0	1,794.0	1,785.8	1,774.3	3.8	4.4	61.05	-106.3	196.3	139.0	132.1	6.94	20.021		
1,900.0	1,893.5	1,885.3	1,872.6	4.1	4.7	62.75	-115.4	208.1	148.2	140.8	7.42	19.970		
2,000.0	1,992.9	1,984.8	1,971.0	4.3	5.1	64.26	-124.6	220.0	157.5	149.6	7.90	19.927		
2,100.0	2,092.3	2,084.2	2,069.3	4.6	5.4	65.59	-133.8	231.9	166.9	158.5	8.39	19.891		
2,200.0	2,191.8	2,183.7	2,167.7	4.8	5.7	66.79	-142.9	243.7	176.4	167.5	8.88	19.861		
2,300.0	2,291.2	2,283.2	2,266.0	5.1	6.0	67.86	-152.1	255.6	185.9	176.6	9.37	19.835		
2,400.0	2,390.6	2,382.7	2,364.4	5.3	6.3	68.83	-161.3	267.4	195.5	185.7	9.87	19.813		
2,500.0	2,490.0	2,482.2	2,462.7	5.6	6.6	69.70	-170.4	279.3	205.2	194.8	10.37	19.795		
2,600.0	2,589.5	2,581.7	2,561.1	5.9	6.9	70.50	-179.6	291.2	214.9	204.0	10.86	19.779		
2,700.0	2,688.9	2,681.2	2,659.4	6.1	7.2	71.23	-188.8	303.0	224.6	213.3	11.36	19.766		
2,800.0	2,788.3	2,780.6	2,757.8	6.4	7.6	71.90	-197.9	314.9	234.4	222.5	11.86	19.755		
2,900.0	2,887.7	2,880.1	2,856.1	6.6	7.9	72.51	-207.1	326.8	244.2	231.8	12.37	19.745		
3,000.0	2,987.2	2,979.6	2,954.5	6.9	8.2	73.08	-216.3	338.6	254.0	241.1	12.87	19.737		
3,100.0	3,086.6	3,079.1	3,052.8	7.1	8.5	73.60	-225.4	350.5	263.9	250.5	13.37	19.730		
3,200.0	3,186.0	3,178.6	3,151.2	7.4	8.8	74.09	-234.6	362.4	273.7	259.8	13.88	19.725		
3,300.0	3,285.5	3,278.1	3,249.5	7.6	9.1	74.54	-243.8	374.2	283.6	269.2	14.38	19.720		
3,400.0	3,384.9	3,377.6	3,347.9	7.9	9.4	74.96	-252.9	386.1	293.5	278.6	14.89	19.716		
3,500.0	3,484.3	3,477.1	3,446.2	8.1	9.8	75.36	-262.1	397.9	303.4	288.0	15.39	19.713		
3,600.0	3,583.7	3,576.5	3,544.6	8.4	10.1	75.73	-271.3	409.8	313.4	297.5	15.90	19.710		
3,700.0	3,683.2	3,676.0	3,642.9	8.7	10.4	76.08	-280.4	421.7	323.3	306.9	16.40	19.708		
3,800.0	3,782.6	3,775.5	3,741.3	8.9	10.7	76.40	-289.6	433.5	333.2	316.3	16.91	19.706		
3,900.0	3,882.0	3,875.0	3,839.6	9.2	11.0	76.71	-298.8	445.4	343.2	325.8	17.42	19.705		
4,000.0	3,981.5	3,974.5	3,938.0	9.4	11.3	77.00	-307.9	457.3	353.2	335.3	17.92	19.704		
4,100.0	4,080.9	4,074.0	4,036.3	9.7	11.6	77.27	-317.1	469.1	363.2	344.7	18.43	19.703		
4,200.0	4,180.3	4,173.5	4,134.7	9.9	12.0	77.53	-326.3	481.0	373.1	354.2	18.94	19.702		
4,300.0	4,279.7	4,272.9	4,233.0	10.2	12.3	77.78	-335.4	492.8	383.1	363.7	19.45	19.702		
4,400.0	4,379.2	4,372.4	4,331.4	10.4	12.6	78.01	-344.6	504.7	393.1	373.2	19.95	19.702		
4,500.0	4,478.6	4,471.9	4,429.7	10.7	12.9	78.23	-353.8	516.6	403.2	382.7	20.46	19.702		
4,600.0	4,578.0	4,571.4	4,528.1	11.0	13.2	78.45	-362.9	528.4	413.2	392.2	20.97	19.702		
4,700.0	4,677.4	4,670.9	4,626.4	11.2	13.5	78.65	-372.1	540.3	423.2	401.7	21.48	19.703		
4,800.0	4,776.9	4,770.4	4,724.8	11.5	13.8	78.84	-381.3	552.2	433.2	411.2	21.99	19.703		
4,900.0	4,876.3	4,869.9	4,823.1	11.7	14.2	79.02	-390.4	564.0	443.2	420.7	22.50	19.704		
5,000.0	4,975.7	4,969.3	4,921.5	12.0	14.5	79.20	-399.6	575.9	453.3	430.3	23.00	19.704		
5,100.0	5,075.2	5,068.8	5,019.8	12.2	14.8	79.36	-408.8	587.7	463.3	439.8	23.51	19.705		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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									
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Total	Separation	Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis					
5,200.0	5,174.6	5,168.3	5,118.2	12.5	15.1	79.53	-417.9	599.6	473.3	449.3	24.02	19.706				
5,300.0	5,274.0	5,267.8	5,216.5	12.7	15.4	79.68	-427.1	611.5	483.4	458.9	24.53	19.707				
5,400.0	5,373.4	5,367.3	5,314.9	13.0	15.7	79.83	-436.3	623.3	493.4	468.4	25.04	19.708				
7,000.0	6,964.3	7,836.8	7,383.0	17.1	19.8	5.78	52.5	872.8	462.8	436.7	26.07	17.750				
7,100.0	7,063.7	7,836.7	7,383.0	17.3	19.8	-30.30	52.4	872.8	369.8	343.6	26.12	14.154				
7,200.0	7,162.1	7,823.3	7,383.0	17.6	19.8	-83.29	38.9	872.8	282.4	255.3	27.15	10.401				
7,300.0	7,256.7	7,792.8	7,383.0	17.8	19.8	-94.62	8.5	872.8	208.5	181.0	27.41	7.604				
7,400.0	7,344.6	7,742.2	7,381.5	18.1	19.7	-88.36	-42.1	872.6	160.6	133.7	26.84	5.982				
7,462.0	7,394.5	7,709.5	7,378.2	18.3	19.7	-80.22	-74.6	872.2	151.4	124.7	26.62	5.686 SF				
7,500.0	7,423.1	7,689.6	7,375.3	18.4	19.7	-74.27	-94.3	871.9	154.7	128.2	26.49	5.840				
7,600.0	7,489.8	7,637.7	7,364.6	18.8	19.7	-57.38	-145.1	870.6	188.9	163.1	25.76	7.334				
7,700.0	7,542.8	7,586.1	7,349.5	19.3	19.7	-42.51	-194.3	868.8	242.0	218.1	23.90	10.125				
7,800.0	7,580.4	7,534.9	7,330.2	19.9	19.8	-31.61	-241.7	866.4	299.9	278.3	21.55	13.915				
7,900.0	7,601.5	7,483.8	7,306.8	20.7	19.9	-24.10	-287.1	863.6	356.3	336.4	19.84	17.959				
8,000.0	7,606.0	7,433.0	7,279.7	21.6	20.0	-19.56	-329.8	860.3	409.0	389.5	19.49	20.989				
8,100.0	7,606.0	7,386.7	7,251.8	22.5	20.1	-17.63	-366.6	857.0	465.8	446.4	19.42	23.990				



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		
12,400.0	7,606.0	7,680.0	7,680.0	90.4	13.4	90.00	-5,384.0	517.7	491.9	389.1	102.82	4.784		
12,500.0	7,606.0	7,680.0	7,680.0	92.1	13.4	90.00	-5,384.0	517.7	405.8	301.2	104.56	3.881		
12,600.0	7,606.0	7,680.0	7,680.0	93.8	13.4	90.00	-5,384.0	517.7	327.6	221.3	106.29	3.082		
12,700.0	7,606.0	7,680.0	7,680.0	95.5	13.4	90.00	-5,384.0	517.7	264.7	156.6	108.03	2.450		
12,800.0	7,606.0	7,680.0	7,680.0	97.3	13.4	90.00	-5,384.0	517.7	229.6	119.9	109.77	2.092		
12,836.5	7,606.0	7,680.0	7,680.0	97.9	13.4	90.00	-5,384.0	517.7	226.7	116.3	110.41	2.053	CC, ES, SF	
12,900.0	7,606.0	7,680.0	7,680.0	99.0	13.4	90.00	-5,384.0	517.7	235.4	123.9	111.51	2.111		
13,000.0	7,606.0	7,680.0	7,680.0	100.7	13.4	90.00	-5,384.0	517.7	279.5	166.2	113.25	2.468		
13,100.0	7,606.0	7,680.0	7,680.0	102.4	13.4	90.00	-5,384.0	517.7	347.6	232.6	114.99	3.023		
13,200.0	7,606.0	7,680.0	7,680.0	104.1	13.4	90.00	-5,384.0	517.7	428.4	311.6	116.73	3.670		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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 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	61.52	182.1	335.7	382.0					
100.0	100.0	99.0	99.0	0.2	0.2	61.52	182.1	335.7	382.0	381.6	0.32	1,178.084		
200.0	200.0	199.0	199.0	0.3	0.3	61.52	182.1	335.7	382.0	381.3	0.67	567.655		
300.0	300.0	299.0	299.0	0.5	0.5	61.52	182.1	335.7	382.0	380.9	1.02	373.912		
400.0	400.0	399.0	399.0	0.7	0.7	-24.06	182.1	335.7	381.8	380.4	1.37	278.626		
500.0	500.0	499.0	499.0	0.9	0.9	-24.17	182.1	335.7	380.2	378.4	1.72	221.184		
600.0	599.9	598.9	598.9	1.0	1.0	-24.40	182.1	335.7	377.0	374.9	2.07	182.310		
700.0	699.8	698.8	698.8	1.2	1.2	-24.75	182.1	335.7	372.2	369.8	2.42	153.947		
800.0	799.5	798.5	798.5	1.4	1.4	-25.24	182.1	335.7	365.9	363.1	2.77	132.110		
900.0	899.2	898.2	898.2	1.6	1.6	-25.86	182.1	335.7	358.0	354.9	3.12	114.599		
1,000.0	998.6	997.6	997.6	1.9	1.7	-26.63	182.1	335.7	348.7	345.3	3.48	100.129		
1,100.0	1,098.0	1,097.0	1,097.0	2.1	1.9	-27.44	182.1	335.7	339.2	335.4	3.85	88.195		
1,200.0	1,197.5	1,196.5	1,196.5	2.3	2.1	-28.29	182.1	335.7	329.8	325.6	4.21	78.283		
1,300.0	1,296.9	1,295.9	1,295.9	2.6	2.3	-29.20	182.1	335.7	320.4	315.8	4.58	69.928		
1,400.0	1,396.3	1,395.3	1,395.3	2.8	2.4	-30.16	182.1	335.7	311.1	306.1	4.95	62.796		
1,500.0	1,495.8	1,494.8	1,494.8	3.1	2.6	-31.17	182.1	335.7	301.9	296.6	5.33	56.642		
1,600.0	1,595.2	1,594.2	1,594.2	3.3	2.8	-32.25	182.1	335.7	292.8	287.1	5.71	51.284		
1,700.0	1,694.6	1,693.6	1,693.6	3.6	2.9	-33.40	182.1	335.7	283.8	277.7	6.09	46.581		
1,800.0	1,794.0	1,793.0	1,793.0	3.8	3.1	-34.63	182.1	335.7	274.9	268.4	6.48	42.424		
1,900.0	1,893.5	1,892.5	1,892.5	4.1	3.3	-35.93	182.1	335.7	266.2	259.3	6.87	38.729		
2,000.0	1,992.9	1,991.9	1,991.9	4.3	3.5	-37.32	182.1	335.7	257.6	250.3	7.27	35.429		
2,100.0	2,092.3	2,091.3	2,091.3	4.6	3.6	-38.81	182.1	335.7	249.2	241.5	7.67	32.467		
2,200.0	2,191.8	2,190.8	2,190.8	4.8	3.8	-40.40	182.1	335.7	240.9	232.8	8.08	29.800		
2,300.0	2,291.2	2,290.2	2,290.2	5.1	4.0	-42.10	182.1	335.7	232.9	224.4	8.50	27.392		
2,400.0	2,390.6	2,389.6	2,389.6	5.3	4.2	-43.91	182.1	335.7	225.0	216.1	8.92	25.213		
2,500.0	2,490.0	2,489.0	2,489.0	5.6	4.3	-45.86	182.1	335.7	217.4	208.1	9.36	23.238		
2,600.0	2,589.5	2,588.5	2,588.5	5.9	4.5	-47.95	182.1	335.7	210.1	200.3	9.80	21.447		
2,700.0	2,688.9	2,687.9	2,687.9	6.1	4.7	-50.18	182.1	335.7	203.1	192.8	10.25	19.822		
2,800.0	2,788.3	2,787.3	2,787.3	6.4	4.9	-52.56	182.1	335.7	196.4	185.7	10.70	18.351		
2,900.0	2,887.7	2,886.7	2,886.7	6.6	5.0	-55.11	182.1	335.7	190.1	178.9	11.17	17.019		
3,000.0	2,987.2	2,986.2	2,986.2	6.9	5.2	-57.83	182.1	335.7	184.1	172.5	11.64	15.818		
3,100.0	3,086.6	3,085.6	3,085.6	7.1	5.4	-60.72	182.1	335.7	178.6	166.5	12.12	14.739		
3,200.0	3,186.0	3,185.0	3,185.0	7.4	5.5	-63.78	182.1	335.7	173.7	161.0	12.61	13.775		
3,300.0	3,285.5	3,284.5	3,284.5	7.6	5.7	-67.01	182.1	335.7	169.2	156.1	13.09	12.919		
3,400.0	3,384.9	3,383.9	3,383.9	7.9	5.9	-70.40	182.1	335.7	165.3	151.7	13.58	12.167		
3,500.0	3,484.3	3,483.3	3,483.3	8.1	6.1	-73.95	182.1	335.7	162.0	147.9	14.07	11.512		
3,600.0	3,583.7	3,582.7	3,582.7	8.4	6.2	-77.62	182.1	335.7	159.4	144.8	14.55	10.950		
3,700.0	3,683.2	3,682.2	3,682.2	8.7	6.4	-81.40	182.1	335.7	157.4	142.4	15.02	10.476		
3,800.0	3,782.6	3,781.6	3,781.6	8.9	6.6	-85.26	182.1	335.7	156.1	140.7	15.48	10.085		
3,900.0	3,882.0	3,881.0	3,881.0	9.2	6.8	-89.16	182.1	335.7	155.6	139.7	15.92	9.772		
3,921.5	3,903.5	3,902.5	3,902.5	9.2	6.8	-90.00	182.1	335.7	155.6	139.6	16.02	9.715 CC		
4,000.0	3,981.5	3,980.5	3,980.5	9.4	6.9	-93.07	182.1	335.7	155.8	139.5	16.35	9.532 ES		
4,100.0	4,080.9	4,079.9	4,079.9	9.7	7.1	-96.95	182.1	335.7	156.8	140.0	16.75	9.360		
4,200.0	4,180.3	4,179.3	4,179.3	9.9	7.3	-100.76	182.1	335.7	158.4	141.3	17.13	9.248		
4,300.0	4,279.7	4,278.7	4,278.7	10.2	7.4	-104.48	182.1	335.7	160.8	143.3	17.49	9.192		
4,400.0	4,379.2	4,378.2	4,378.2	10.4	7.6	-108.09	182.1	335.7	163.8	146.0	17.83	9.186 SF		
4,500.0	4,478.6	4,477.6	4,477.6	10.7	7.8	-111.55	182.1	335.7	167.4	149.3	18.15	9.223		
4,600.0	4,578.0	4,577.0	4,577.0	11.0	8.0	-114.85	182.1	335.7	171.7	153.2	18.46	9.299		
4,700.0	4,677.4	4,676.4	4,676.4	11.2	8.1	-117.99	182.1	335.7	176.4	157.7	18.76	9.407		
4,800.0	4,776.9	4,775.9	4,775.9	11.5	8.3	-120.95	182.1	335.7	181.7	162.7	19.04	9.543		
4,900.0	4,876.3	4,875.3	4,875.3	11.7	8.5	-123.74	182.1	335.7	187.5	168.1	19.32	9.703		
5,000.0	4,975.7	4,974.7	4,974.7	12.0	8.7	-126.36	182.1	335.7	193.6	174.0	19.59	9.882		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
5,100.0	5,075.2	4,996.0	4,996.0	12.2	8.7	-126.90	182.1	335.7	214.9	195.0	19.83	10.835					
5,200.0	5,174.6	4,996.0	4,996.0	12.5	8.7	-126.90	182.1	335.7	272.8	252.7	20.06	13.597					
5,300.0	5,274.0	4,996.0	4,996.0	12.7	8.7	-126.90	182.1	335.7	350.2	329.9	20.29	17.259					
5,400.0	5,373.4	4,996.0	4,996.0	13.0	8.7	-126.90	182.1	335.7	436.9	416.4	20.52	21.290					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		
700.0	699.8	602.8	602.8	1.2	1.1	-13.51	154.1	484.3	497.8	495.6	2.25	221.199		
800.0	799.5	702.5	702.5	1.4	1.2	-13.72	154.1	484.3	491.0	488.4	2.60	188.928		
900.0	899.2	802.2	802.2	1.6	1.4	-13.99	154.1	484.3	482.6	479.6	2.95	163.710		
1,000.0	998.6	901.6	901.6	1.9	1.6	-14.30	154.1	484.3	472.5	469.2	3.30	143.293		
1,100.0	1,098.0	1,001.0	1,001.0	2.1	1.7	-14.63	154.1	484.3	462.2	458.5	3.65	126.619		
1,200.0	1,197.5	1,100.5	1,100.5	2.3	1.9	-14.97	154.1	484.3	451.9	447.9	4.00	112.864		
1,300.0	1,296.9	1,199.9	1,199.9	2.6	2.1	-15.33	154.1	484.3	441.5	437.2	4.36	101.325		
1,400.0	1,396.3	1,299.3	1,299.3	2.8	2.3	-15.71	154.1	484.3	431.2	426.5	4.71	91.510		
1,500.0	1,495.8	1,398.8	1,398.8	3.1	2.4	-16.10	154.1	484.3	421.0	415.9	5.07	83.059		
1,600.0	1,595.2	1,498.2	1,498.2	3.3	2.6	-16.51	154.1	484.3	410.7	405.3	5.42	75.707		
1,700.0	1,694.6	1,597.6	1,597.6	3.6	2.8	-16.95	154.1	484.3	400.5	394.7	5.78	69.255		
1,800.0	1,794.0	1,697.0	1,697.0	3.8	3.0	-17.40	154.1	484.3	390.3	384.1	6.14	63.547		
1,900.0	1,893.5	1,796.5	1,796.5	4.1	3.1	-17.89	154.1	484.3	380.1	373.6	6.50	58.462		
2,000.0	1,992.9	1,895.9	1,895.9	4.3	3.3	-18.39	154.1	484.3	369.9	363.1	6.86	53.905		
2,100.0	2,092.3	1,995.3	1,995.3	4.6	3.5	-18.93	154.1	484.3	359.8	352.6	7.23	49.797		
2,200.0	2,191.8	2,094.8	2,094.8	4.8	3.7	-19.50	154.1	484.3	349.7	342.1	7.59	46.077		
2,300.0	2,291.2	2,194.2	2,194.2	5.1	3.8	-20.10	154.1	484.3	339.6	331.7	7.96	42.692		
2,400.0	2,390.6	2,293.6	2,293.6	5.3	4.0	-20.74	154.1	484.3	329.6	321.3	8.32	39.601		
2,500.0	2,490.0	2,393.0	2,393.0	5.6	4.2	-21.41	154.1	484.3	319.6	311.0	8.69	36.766		
2,600.0	2,589.5	2,492.5	2,492.5	5.9	4.4	-22.14	154.1	484.3	309.7	300.6	9.07	34.159		
2,700.0	2,688.9	2,591.9	2,591.9	6.1	4.5	-22.90	154.1	484.3	299.8	290.4	9.44	31.754		
2,800.0	2,788.3	2,691.3	2,691.3	6.4	4.7	-23.72	154.1	484.3	290.0	280.2	9.82	29.529		
2,900.0	2,887.7	2,790.7	2,790.7	6.6	4.9	-24.60	154.1	484.3	280.3	270.1	10.20	27.465		
3,000.0	2,987.2	2,890.2	2,890.2	6.9	5.0	-25.54	154.1	484.3	270.6	260.0	10.59	25.548		
3,100.0	3,086.6	2,989.6	2,989.6	7.1	5.2	-26.55	154.1	484.3	261.0	250.0	10.98	23.762		
3,200.0	3,186.0	3,089.0	3,089.0	7.4	5.4	-27.64	154.1	484.3	251.4	240.1	11.38	22.097		
3,300.0	3,285.5	3,188.5	3,188.5	7.6	5.6	-28.81	154.1	484.3	242.0	230.2	11.78	20.541		
3,400.0	3,384.9	3,287.9	3,287.9	7.9	5.7	-30.08	154.1	484.3	232.7	220.5	12.19	19.087		
3,500.0	3,484.3	3,387.3	3,387.3	8.1	5.9	-31.45	154.1	484.3	223.5	210.9	12.61	17.726		
3,600.0	3,583.7	3,486.7	3,486.7	8.4	6.1	-32.94	154.1	484.3	214.5	201.4	13.04	16.452		
3,700.0	3,683.2	3,586.2	3,586.2	8.7	6.3	-34.55	154.1	484.3	205.6	192.1	13.47	15.259		
3,800.0	3,782.6	3,685.6	3,685.6	8.9	6.4	-36.31	154.1	484.3	196.8	182.9	13.92	14.142		
3,900.0	3,882.0	3,785.0	3,785.0	9.2	6.6	-38.23	154.1	484.3	188.3	173.9	14.38	13.098		
4,000.0	3,981.5	3,884.5	3,884.5	9.4	6.8	-40.33	154.1	484.3	180.0	165.2	14.85	12.122		
4,100.0	4,080.9	3,983.9	3,983.9	9.7	7.0	-42.63	154.1	484.3	172.0	156.7	15.34	11.213		
4,200.0	4,180.3	4,083.3	4,083.3	9.9	7.1	-45.15	154.1	484.3	164.3	148.4	15.84	10.369		
4,300.0	4,279.7	4,182.7	4,182.7	10.2	7.3	-47.91	154.1	484.3	156.9	140.5	16.36	9.588		
4,400.0	4,379.2	4,282.2	4,282.2	10.4	7.5	-50.93	154.1	484.3	149.9	133.0	16.90	8.871		
4,500.0	4,478.6	4,381.6	4,381.6	10.7	7.6	-54.23	154.1	484.3	143.4	126.0	17.45	8.216		
4,600.0	4,578.0	4,481.0	4,481.0	11.0	7.8	-57.83	154.1	484.3	137.4	119.4	18.02	7.625		
4,700.0	4,677.4	4,580.4	4,580.4	11.2	8.0	-61.74	154.1	484.3	132.0	113.4	18.60	7.099		
4,800.0	4,776.9	4,679.9	4,679.9	11.5	8.2	-65.96	154.1	484.3	127.3	108.1	19.18	6.637		
4,900.0	4,876.3	4,779.3	4,779.3	11.7	8.3	-70.48	154.1	484.3	123.3	103.5	19.75	6.243		
5,000.0	4,975.7	4,878.7	4,878.7	12.0	8.5	-75.26	154.1	484.3	120.1	99.8	20.31	5.915		
5,100.0	5,075.2	4,978.2	4,978.2	12.2	8.7	-80.26	154.1	484.3	117.8	97.0	20.84	5.655		
5,200.0	5,174.6	5,077.6	5,077.6	12.5	8.9	-85.42	154.1	484.3	116.5	95.2	21.33	5.461		
5,287.7	5,261.7	5,164.7	5,164.7	12.7	9.0	-90.00	154.1	484.3	116.1	94.4	21.73	5.345 CC		
5,300.0	5,274.0	5,177.0	5,177.0	12.7	9.0	-90.65	154.1	484.3	116.1	94.4	21.78	5.332 ES		
5,400.0	5,373.4	5,276.4	5,276.4	13.0	9.2	-95.87	154.1	484.3	116.7	94.6	22.18	5.264		
5,500.0	5,472.9	5,375.9	5,375.9	13.3	9.4	-100.99	154.1	484.3	118.3	95.8	22.52	5.253 SF		
5,600.0	5,572.3	5,475.3	5,475.3	13.5	9.6	-105.94	154.1	484.3	120.8	98.0	22.82	5.295		
5,700.0	5,671.7	5,574.7	5,574.7	13.8	9.7	-110.66	154.1	484.3	124.2	101.1	23.08	5.382		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,800.0	5,771.2	5,674.2	5,674.2	14.0	9.9	-115.11	154.1	484.3	128.4	105.1	23.30	5.510		
5,900.0	5,870.6	5,773.6	5,773.6	14.3	10.1	-119.25	154.1	484.3	133.3	109.8	23.50	5.671		
6,000.0	5,970.0	5,873.0	5,873.0	14.5	10.3	-123.09	154.1	484.3	138.8	115.1	23.69	5.861		
6,100.0	6,069.4	5,972.4	5,972.4	14.8	10.4	-126.61	154.1	484.3	145.0	121.1	23.87	6.073		
6,200.0	6,168.9	6,071.9	6,071.9	15.0	10.6	-129.85	154.1	484.3	151.6	127.6	24.05	6.304		
6,300.0	6,268.3	6,171.3	6,171.3	15.3	10.8	-132.80	154.1	484.3	158.7	134.5	24.23	6.548		
6,400.0	6,367.7	6,270.7	6,270.7	15.6	10.9	-135.50	154.1	484.3	166.2	141.7	24.42	6.803		
6,500.0	6,467.1	6,370.1	6,370.1	15.8	11.1	-137.96	154.1	484.3	174.0	149.3	24.62	7.065		
6,600.0	6,566.6	6,469.6	6,469.6	16.1	11.3	-140.20	154.1	484.3	182.0	157.2	24.83	7.331		
6,700.0	6,666.0	6,569.0	6,569.0	16.3	11.5	-142.26	154.1	484.3	190.4	165.3	25.05	7.601		
6,800.0	6,765.4	6,668.4	6,668.4	16.6	11.6	-144.14	154.1	484.3	199.0	173.7	25.27	7.872		
6,900.0	6,864.9	6,767.9	6,767.9	16.8	11.8	-145.86	154.1	484.3	207.7	182.2	25.51	8.143		
7,000.0	6,964.3	6,867.3	6,867.3	17.1	12.0	-147.44	154.1	484.3	216.7	190.9	25.76	8.413		
7,100.0	7,063.7	6,966.7	6,966.7	17.3	12.2	-177.59	154.1	484.3	226.2	200.2	25.96	8.713		
7,200.0	7,162.1	7,065.1	7,065.1	17.6	12.3	142.80	154.1	484.3	241.8	215.7	26.02	9.290		
7,300.0	7,256.7	7,159.7	7,159.7	17.8	12.5	134.95	154.1	484.3	266.1	240.2	25.93	10.261		
7,400.0	7,344.6	7,247.6	7,247.6	18.1	12.6	133.91	154.1	484.3	301.3	275.8	25.51	11.813		
7,500.0	7,423.1	7,326.1	7,326.1	18.4	12.8	134.15	154.1	484.3	349.3	324.6	24.75	14.114		
7,600.0	7,489.8	7,392.8	7,392.8	18.8	12.9	133.38	154.1	484.3	410.4	386.4	23.97	17.122		
7,700.0	7,542.8	7,445.8	7,445.8	19.3	13.0	130.01	154.1	484.3	483.4	459.6	23.85	20.269		

# Anticollision Report

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

Offset Design S32-T2N-R68W (File) - RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 60-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)						
1,200.0	1,197.5	1,172.0	1,164.2	2.3	3.0	-2.74	66.8	551.5	498.9	494.0	4.85	102.760		
1,300.0	1,296.9	1,271.4	1,262.5	2.6	3.3	-1.40	55.6	560.1	495.5	490.2	5.28	93.753		
1,400.0	1,396.3	1,372.9	1,363.0	2.8	3.6	0.03	43.9	568.7	492.3	486.6	5.72	86.108		
1,500.0	1,495.8	1,468.7	1,457.8	3.1	3.9	1.37	33.1	576.9	489.5	483.3	6.12	79.942		
1,600.0	1,595.2	1,568.1	1,556.2	3.3	4.2	2.75	22.1	585.7	487.3	480.7	6.54	74.560		
1,700.0	1,694.6	1,664.5	1,651.6	3.6	4.5	4.13	11.1	594.6	485.7	478.7	6.94	69.993		
1,800.0	1,794.0	1,768.5	1,754.5	3.8	4.8	5.55	0.0	603.9	484.1	476.7	7.34	65.948		
1,900.0	1,893.5	1,868.7	1,853.8	4.1	5.1	6.92	-10.7	612.5	482.4	474.6	7.74	62.352		
2,000.0	1,992.9	1,972.7	1,956.9	4.3	5.3	8.28	-21.1	620.6	480.1	472.0	8.13	59.084		
2,100.0	2,092.3	2,072.1	2,055.5	4.6	5.6	9.63	-31.3	627.9	477.7	469.2	8.51	56.119		
2,200.0	2,191.8	2,169.9	2,152.5	4.8	5.9	11.03	-42.0	635.2	475.8	467.0	8.89	53.501		
2,300.0	2,291.2	2,269.4	2,251.1	5.1	6.2	12.46	-52.7	642.8	474.4	465.1	9.27	51.169		
2,400.0	2,390.6	2,370.5	2,351.4	5.3	6.5	13.88	-63.3	650.4	473.0	463.4	9.65	49.004		
2,500.0	2,490.0	2,468.3	2,448.4	5.6	6.8	15.37	-74.3	657.3	471.7	461.7	10.03	47.007		
2,560.5	2,550.2	2,525.5	2,504.9	5.8	7.0	16.31	-81.4	661.6	471.4	461.2	10.26	45.941		
2,600.0	2,589.5	2,562.8	2,541.8	5.9	7.1	16.93	-86.1	664.6	471.5	461.1	10.41	45.306		
2,700.0	2,688.9	2,657.2	2,635.1	6.1	7.4	18.45	-97.7	672.8	472.7	462.0	10.77	43.882		
2,800.0	2,788.3	2,756.3	2,733.1	6.4	7.7	19.94	-109.5	682.3	475.1	463.9	11.14	42.642		
2,900.0	2,887.7	2,858.8	2,834.5	6.6	8.0	21.44	-121.2	691.6	477.0	465.5	11.51	41.432		
3,000.0	2,987.2	2,957.2	2,931.9	6.9	8.3	22.89	-132.5	700.2	479.0	467.1	11.88	40.317		
3,100.0	3,086.6	3,059.0	3,032.5	7.1	8.6	24.41	-144.5	709.1	481.5	469.2	12.25	39.314		
3,200.0	3,186.0	3,163.2	3,135.9	7.4	8.9	25.83	-155.4	717.6	483.2	470.6	12.62	38.300		
3,300.0	3,285.5	3,255.5	3,227.3	7.6	9.2	27.13	-165.5	725.0	485.2	472.3	12.97	37.407		
3,400.0	3,384.9	3,357.7	3,328.4	7.9	9.5	28.62	-177.6	733.8	488.5	475.2	13.34	36.613		
3,500.0	3,484.3	3,457.7	3,427.4	8.1	9.8	30.02	-188.8	741.9	491.3	477.6	13.71	35.848		
3,600.0	3,583.7	3,558.2	3,527.0	8.4	10.1	31.33	-199.4	750.2	494.3	480.3	14.07	35.134		
3,700.0	3,683.2	3,658.9	3,626.8	8.7	10.4	32.64	-210.0	758.3	497.3	482.9	14.44	34.439		
3,800.0	3,782.6	3,761.8	3,728.8	8.9	10.7	34.00	-220.8	765.9	500.0	485.2	14.82	33.748		
7,400.0	7,344.6	7,406.5	7,355.6	18.1	18.7	-25.92	-443.9	962.9	474.9	448.3	26.68	17.803		
7,500.0	7,423.1	7,485.6	7,434.7	18.4	18.8	-36.97	-442.0	963.3	417.7	392.1	25.55	16.347		
7,600.0	7,489.8	7,552.9	7,502.0	18.8	18.8	-51.87	-440.1	963.2	353.3	326.9	26.36	13.401		
7,700.0	7,542.8	7,603.3	7,552.4	19.3	18.9	-69.12	-438.6	962.9	289.0	259.6	29.38	9.838		
7,800.0	7,580.4	7,638.7	7,587.8	19.9	18.9	-83.78	-437.5	962.7	237.7	205.7	32.00	7.428		
7,892.8	7,600.5	7,656.5	7,605.5	20.6	18.9	-90.53	-437.0	962.5	218.7	185.6	33.10	6.609 CC, ES		
7,900.0	7,601.5	7,657.2	7,606.2	20.7	18.9	-90.72	-437.0	962.5	218.9	185.7	33.15	6.602 SF		
8,000.0	7,606.0	7,658.9	7,607.9	21.6	18.9	-89.72	-437.0	962.5	244.5	210.4	34.10	7.170		
8,100.0	7,606.0	7,655.9	7,605.0	22.5	18.9	-88.94	-437.0	962.5	303.1	267.8	35.31	8.584		
8,200.0	7,606.0	7,653.0	7,602.0	23.6	18.9	-88.16	-437.1	962.5	379.4	342.8	36.60	10.366		
8,300.0	7,606.0	7,650.0	7,599.0	24.7	18.9	-87.39	-437.2	962.6	464.8	426.8	37.95	12.247		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well File 3H-32H-K268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File)	<b>MD Reference:</b>	WELL @ 4971.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	File 3H-32H-K268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,500.0	5,472.9	5,581.1	5,542.4	13.3	10.9	-16.08	199.6	953.3	478.3	458.1	20.30	23.569		
5,600.0	5,572.3	5,671.4	5,627.2	13.5	11.3	-19.65	215.1	926.4	446.4	425.4	21.03	21.228		
5,700.0	5,671.7	5,761.8	5,712.1	13.8	11.7	-23.70	230.6	899.5	416.5	394.6	21.87	19.042		
5,800.0	5,771.2	5,852.1	5,796.9	14.0	12.2	-28.27	246.1	872.6	388.9	366.1	22.83	17.037		
5,900.0	5,870.6	5,942.5	5,881.8	14.3	12.6	-33.42	261.6	845.7	364.4	340.5	23.90	15.243		
6,000.0	5,970.0	6,032.8	5,966.6	14.5	13.1	-39.15	277.1	818.9	343.4	318.4	25.08	13.692		
6,100.0	6,069.4	6,123.2	6,051.4	14.8	13.5	-45.43	292.6	792.0	326.8	300.5	26.33	12.412		
6,200.0	6,168.9	6,213.5	6,136.3	15.0	14.0	-52.18	308.1	765.1	315.2	287.6	27.58	11.427		
6,300.0	6,268.3	6,303.8	6,221.1	15.3	14.5	-59.25	323.7	738.2	309.1	280.3	28.76	10.747		
6,353.1	6,321.1	6,351.8	6,266.2	15.4	14.8	-63.07	331.9	723.9	308.3	278.9	29.33	10.508 CC, ES		
6,400.0	6,367.7	6,394.2	6,306.0	15.6	15.0	-66.44	339.2	711.3	308.9	279.1	29.80	10.368		
6,500.0	6,467.1	6,484.5	6,390.8	15.8	15.5	-73.53	354.7	684.4	314.6	284.0	30.63	10.272 SF		
6,600.0	6,566.6	6,574.9	6,475.6	16.1	16.0	-80.31	370.2	657.5	325.9	294.7	31.25	10.431		
6,700.0	6,666.0	6,665.2	6,560.5	16.3	16.5	-86.62	385.7	630.6	342.3	310.6	31.66	10.811		
6,800.0	6,765.4	6,755.6	6,645.3	16.6	17.0	-92.39	401.2	603.7	363.0	331.0	31.91	11.376		
6,900.0	6,864.9	6,845.9	6,730.2	16.8	17.5	-97.57	416.7	576.8	387.3	355.3	32.03	12.090		
7,000.0	6,964.3	6,936.2	6,815.0	17.1	18.1	-102.18	432.2	549.9	414.7	382.6	32.09	12.923		
7,100.0	7,063.7	7,026.4	6,899.7	17.3	18.6	-135.20	447.7	523.0	445.3	413.3	31.98	13.923		
7,200.0	7,162.1	7,113.4	6,981.4	17.6	19.1	179.95	462.6	497.1	489.1	458.1	30.98	15.788		

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

## Anticollision Report

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

Reference Depths are relative to WELL @ 4971.0ft (Original Well Elev)

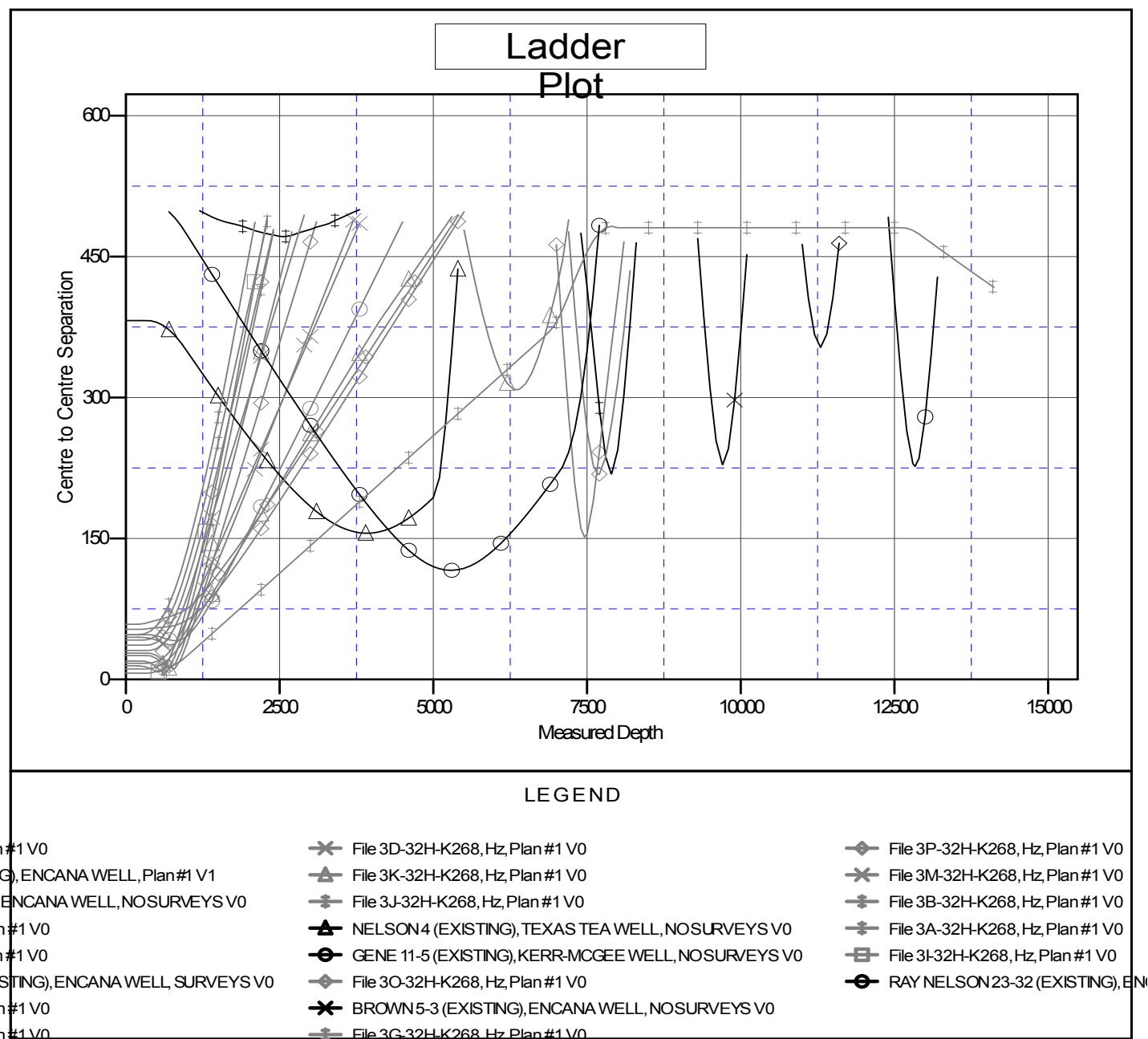
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

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

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°



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