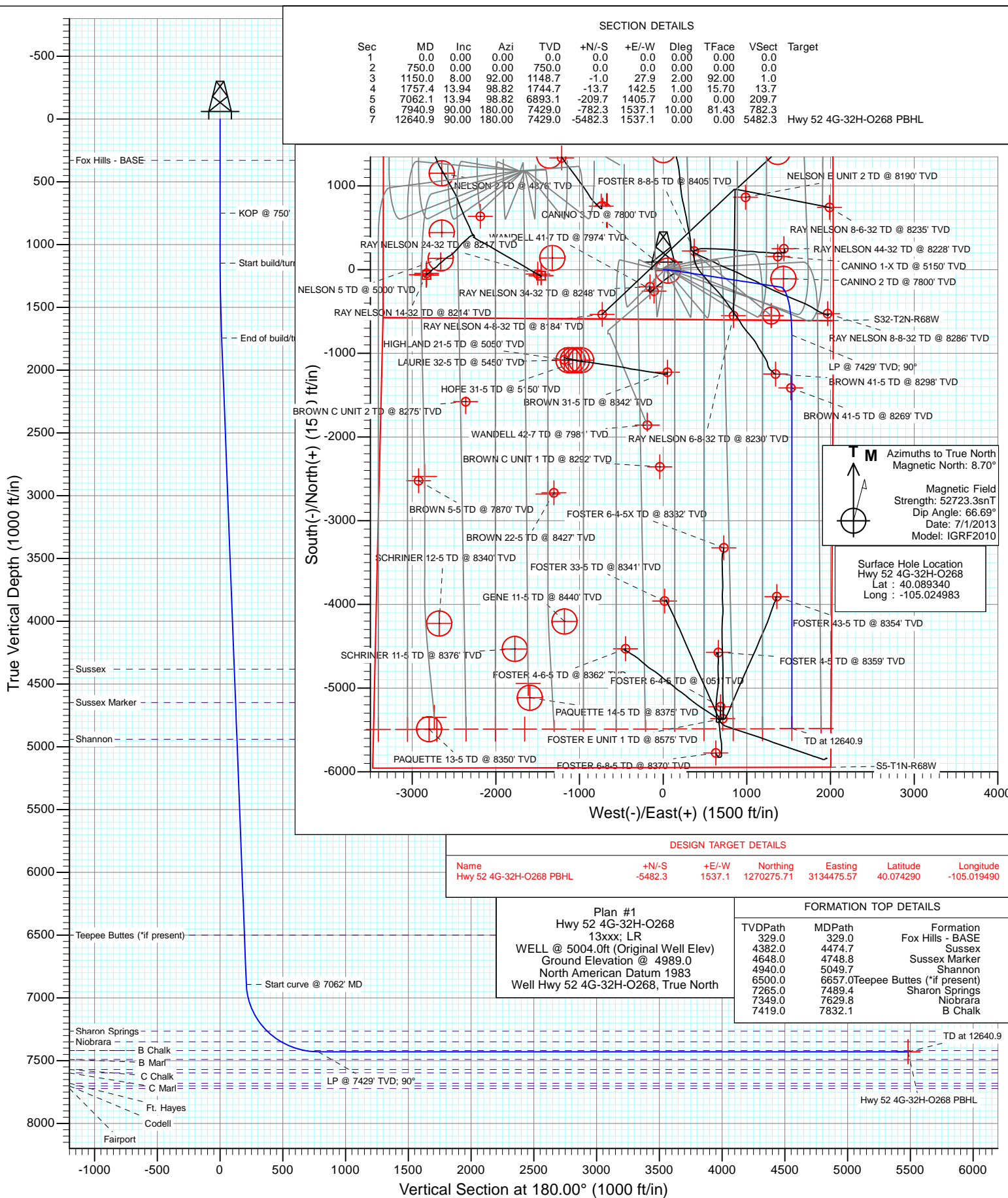




Project: DJ Wattenberg  
Site: S32-T2N-R68W (File/Hwy 52)  
Well: Hwy 52 4G-32H-O268  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52)			
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	Hwy 52 4G-32H-O268					
Well Position	+N/-S	0.0 ft	Northing:	1,275,749.69 ft	Latitude:	40.089340
	+E/-W	0.0 ft	Easting:	3,132,909.09 ft	Longitude:	-105.024983
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,989.0 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	7/1/2013	8.70	66.69	52,723

<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	
750.0	0.00	0.00	750.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,150.0	8.00	92.00	1,148.7	-1.0	27.9	2.00	2.00	0.00	92.00	
1,757.4	13.94	98.82	1,744.7	-13.7	142.5	1.00	0.98	1.12	15.70	
7,062.1	13.94	98.82	6,893.1	-209.7	1,405.7	0.00	0.00	0.00	0.00	
7,940.9	90.00	180.00	7,429.0	-782.3	1,537.1	10.00	8.65	9.24	81.43	
12,640.9	90.00	180.00	7,429.0	-5,482.3	1,537.1	0.00	0.00	0.00	0.00	Hwy 52 4G-32H-O268

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4G-32H-O268	<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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
329.0	0.00	0.00	329.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	KOP @ 750'
800.0	1.00	92.00	800.0	0.0	0.4	0.0	2.00	2.00	
900.0	3.00	92.00	899.9	-0.1	3.9	0.1	2.00	2.00	
1,000.0	5.00	92.00	999.7	-0.4	10.9	0.4	2.00	2.00	
1,100.0	7.00	92.00	1,099.1	-0.7	21.3	0.7	2.00	2.00	
1,150.0	8.00	92.00	1,148.7	-1.0	27.9	1.0	2.00	2.00	Start build/turn @ 1150' MD
1,200.0	8.48	92.92	1,198.2	-1.3	35.0	1.3	1.00	0.96	
1,300.0	9.45	94.47	1,297.0	-2.3	50.6	2.3	1.00	0.97	
1,400.0	10.43	95.74	1,395.5	-3.8	67.8	3.8	1.00	0.98	
1,500.0	11.41	96.79	1,493.6	-5.9	86.6	5.9	1.00	0.98	
1,600.0	12.39	97.68	1,591.5	-8.5	107.0	8.5	1.00	0.98	
1,700.0	13.38	98.43	1,689.0	-11.6	129.1	11.6	1.00	0.99	
1,757.4	13.94	98.82	1,744.7	-13.7	142.5	13.7	1.00	0.99	End of build/turn @ 1757' MD
1,800.0	13.94	98.82	1,786.1	-15.3	152.7	15.3	0.00	0.00	
1,900.0	13.94	98.82	1,883.2	-19.0	176.5	19.0	0.00	0.00	
2,000.0	13.94	98.82	1,980.2	-22.6	200.3	22.6	0.00	0.00	
2,100.0	13.94	98.82	2,077.3	-26.3	224.1	26.3	0.00	0.00	
2,200.0	13.94	98.82	2,174.3	-30.0	247.9	30.0	0.00	0.00	
2,300.0	13.94	98.82	2,271.4	-33.7	271.7	33.7	0.00	0.00	
2,400.0	13.94	98.82	2,368.4	-37.4	295.5	37.4	0.00	0.00	
2,500.0	13.94	98.82	2,465.5	-41.1	319.4	41.1	0.00	0.00	
2,600.0	13.94	98.82	2,562.5	-44.8	343.2	44.8	0.00	0.00	
2,700.0	13.94	98.82	2,659.6	-48.5	367.0	48.5	0.00	0.00	
2,800.0	13.94	98.82	2,756.6	-52.2	390.8	52.2	0.00	0.00	
2,900.0	13.94	98.82	2,853.7	-55.9	414.6	55.9	0.00	0.00	
3,000.0	13.94	98.82	2,950.7	-59.6	438.4	59.6	0.00	0.00	
3,100.0	13.94	98.82	3,047.8	-63.3	462.2	63.3	0.00	0.00	
3,200.0	13.94	98.82	3,144.8	-67.0	486.0	67.0	0.00	0.00	
3,300.0	13.94	98.82	3,241.9	-70.7	509.8	70.7	0.00	0.00	
3,400.0	13.94	98.82	3,339.0	-74.4	533.7	74.4	0.00	0.00	
3,500.0	13.94	98.82	3,436.0	-78.1	557.5	78.1	0.00	0.00	
3,600.0	13.94	98.82	3,533.1	-81.8	581.3	81.8	0.00	0.00	
3,700.0	13.94	98.82	3,630.1	-85.5	605.1	85.5	0.00	0.00	
3,800.0	13.94	98.82	3,727.2	-89.2	628.9	89.2	0.00	0.00	
3,900.0	13.94	98.82	3,824.2	-92.9	652.7	92.9	0.00	0.00	
4,000.0	13.94	98.82	3,921.3	-96.6	676.5	96.6	0.00	0.00	
4,100.0	13.94	98.82	4,018.3	-100.3	700.3	100.3	0.00	0.00	
4,200.0	13.94	98.82	4,115.4	-104.0	724.2	104.0	0.00	0.00	
4,300.0	13.94	98.82	4,212.4	-107.6	748.0	107.6	0.00	0.00	
4,400.0	13.94	98.82	4,309.5	-111.3	771.8	111.3	0.00	0.00	
4,474.7	13.94	98.82	4,382.0	-114.1	789.6	114.1	0.00	0.00	Sussex
4,500.0	13.94	98.82	4,406.5	-115.0	795.6	115.0	0.00	0.00	
4,600.0	13.94	98.82	4,503.6	-118.7	819.4	118.7	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4G-32H-O268	<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	13.94	98.82	4,600.6	-122.4	843.2	122.4	0.00	0.00	
4,748.8	13.94	98.82	4,648.0	-124.2	854.8	124.2	0.00	0.00	Sussex Marker
4,800.0	13.94	98.82	4,697.7	-126.1	867.0	126.1	0.00	0.00	
4,900.0	13.94	98.82	4,794.8	-129.8	890.8	129.8	0.00	0.00	
5,000.0	13.94	98.82	4,891.8	-133.5	914.6	133.5	0.00	0.00	
5,049.7	13.94	98.82	4,940.0	-135.4	926.5	135.4	0.00	0.00	Shannon
5,100.0	13.94	98.82	4,988.9	-137.2	938.5	137.2	0.00	0.00	
5,200.0	13.94	98.82	5,085.9	-140.9	962.3	140.9	0.00	0.00	
5,300.0	13.94	98.82	5,183.0	-144.6	986.1	144.6	0.00	0.00	
5,400.0	13.94	98.82	5,280.0	-148.3	1,009.9	148.3	0.00	0.00	
5,500.0	13.94	98.82	5,377.1	-152.0	1,033.7	152.0	0.00	0.00	
5,600.0	13.94	98.82	5,474.1	-155.7	1,057.5	155.7	0.00	0.00	
5,700.0	13.94	98.82	5,571.2	-159.4	1,081.3	159.4	0.00	0.00	
5,800.0	13.94	98.82	5,668.2	-163.1	1,105.1	163.1	0.00	0.00	
5,900.0	13.94	98.82	5,765.3	-166.8	1,129.0	166.8	0.00	0.00	
6,000.0	13.94	98.82	5,862.3	-170.5	1,152.8	170.5	0.00	0.00	
6,100.0	13.94	98.82	5,959.4	-174.2	1,176.6	174.2	0.00	0.00	
6,200.0	13.94	98.82	6,056.4	-177.9	1,200.4	177.9	0.00	0.00	
6,300.0	13.94	98.82	6,153.5	-181.6	1,224.2	181.6	0.00	0.00	
6,400.0	13.94	98.82	6,250.6	-185.3	1,248.0	185.3	0.00	0.00	
6,500.0	13.94	98.82	6,347.6	-189.0	1,271.8	189.0	0.00	0.00	
6,600.0	13.94	98.82	6,444.7	-192.6	1,295.6	192.6	0.00	0.00	
6,657.0	13.94	98.82	6,500.0	-194.8	1,309.2	194.8	0.00	0.00	Teepee Buttes (*if present)
6,700.0	13.94	98.82	6,541.7	-196.3	1,319.4	196.3	0.00	0.00	
6,800.0	13.94	98.82	6,638.8	-200.0	1,343.3	200.0	0.00	0.00	
6,900.0	13.94	98.82	6,735.8	-203.7	1,367.1	203.7	0.00	0.00	
7,000.0	13.94	98.82	6,832.9	-207.4	1,390.9	207.4	0.00	0.00	
7,062.1	13.94	98.82	6,893.1	-209.7	1,405.7	209.7	0.00	0.00	Start curve @ 7062' MD
7,100.0	14.98	113.49	6,929.9	-212.4	1,414.7	212.4	10.00	2.72	
7,200.0	20.93	140.11	7,025.1	-231.3	1,438.0	231.3	10.00	5.96	
7,300.0	29.12	153.87	7,115.7	-266.9	1,460.3	266.9	10.00	8.19	
7,400.0	38.13	161.79	7,198.9	-318.2	1,480.7	318.2	10.00	9.01	
7,489.4	46.49	166.53	7,265.0	-376.1	1,496.9	376.1	10.00	9.35	Sharon Springs
7,500.0	47.49	167.00	7,272.2	-383.6	1,498.7	383.6	10.00	9.45	
7,600.0	57.02	170.84	7,333.4	-461.2	1,513.7	461.2	10.00	9.53	
7,629.8	59.89	171.82	7,349.0	-486.3	1,517.5	486.3	10.00	9.60	Niobrara
7,700.0	66.65	173.92	7,380.5	-548.4	1,525.2	548.4	10.00	9.64	
7,800.0	76.33	176.58	7,412.3	-642.8	1,533.0	642.8	10.00	9.68	
7,832.1	79.44	177.38	7,419.0	-674.2	1,534.7	674.2	10.00	9.70	B Chalk
7,900.0	86.03	179.02	7,427.6	-741.4	1,536.8	741.4	10.00	9.71	
7,940.9	90.00	180.00	7,429.0	-782.3	1,537.1	782.3	10.00	9.71	LP @ 7429' TVD; 90°
8,000.0	90.00	180.00	7,429.0	-841.4	1,537.1	841.4	0.00	0.00	
8,100.0	90.00	180.00	7,429.0	-941.4	1,537.1	941.4	0.00	0.00	
8,200.0	90.00	180.00	7,429.0	-1,041.4	1,537.1	1,041.4	0.00	0.00	
8,300.0	90.00	180.00	7,429.0	-1,141.4	1,537.1	1,141.4	0.00	0.00	
8,400.0	90.00	180.00	7,429.0	-1,241.4	1,537.1	1,241.4	0.00	0.00	
8,500.0	90.00	180.00	7,429.0	-1,341.4	1,537.1	1,341.4	0.00	0.00	
8,600.0	90.00	180.00	7,429.0	-1,441.4	1,537.1	1,441.4	0.00	0.00	
8,700.0	90.00	180.00	7,429.0	-1,541.4	1,537.1	1,541.4	0.00	0.00	
8,800.0	90.00	180.00	7,429.0	-1,641.4	1,537.1	1,641.4	0.00	0.00	
8,900.0	90.00	180.00	7,429.0	-1,741.4	1,537.1	1,741.4	0.00	0.00	
9,000.0	90.00	180.00	7,429.0	-1,841.4	1,537.1	1,841.4	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4G-32H-O268	<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
9,100.0	90.00	180.00	7,429.0	-1,941.4	1,537.1	1,941.4	0.00	0.00	
9,200.0	90.00	180.00	7,429.0	-2,041.4	1,537.1	2,041.4	0.00	0.00	
9,300.0	90.00	180.00	7,429.0	-2,141.4	1,537.1	2,141.4	0.00	0.00	
9,400.0	90.00	180.00	7,429.0	-2,241.4	1,537.1	2,241.4	0.00	0.00	
9,500.0	90.00	180.00	7,429.0	-2,341.4	1,537.1	2,341.4	0.00	0.00	
9,600.0	90.00	180.00	7,429.0	-2,441.4	1,537.1	2,441.4	0.00	0.00	
9,700.0	90.00	180.00	7,429.0	-2,541.4	1,537.1	2,541.4	0.00	0.00	
9,800.0	90.00	180.00	7,429.0	-2,641.4	1,537.1	2,641.4	0.00	0.00	
9,900.0	90.00	180.00	7,429.0	-2,741.4	1,537.1	2,741.4	0.00	0.00	
10,000.0	90.00	180.00	7,429.0	-2,841.4	1,537.1	2,841.4	0.00	0.00	
10,100.0	90.00	180.00	7,429.0	-2,941.4	1,537.1	2,941.4	0.00	0.00	
10,200.0	90.00	180.00	7,429.0	-3,041.4	1,537.1	3,041.4	0.00	0.00	
10,300.0	90.00	180.00	7,429.0	-3,141.4	1,537.1	3,141.4	0.00	0.00	
10,400.0	90.00	180.00	7,429.0	-3,241.4	1,537.1	3,241.4	0.00	0.00	
10,500.0	90.00	180.00	7,429.0	-3,341.4	1,537.1	3,341.4	0.00	0.00	
10,600.0	90.00	180.00	7,429.0	-3,441.4	1,537.1	3,441.4	0.00	0.00	
10,700.0	90.00	180.00	7,429.0	-3,541.4	1,537.1	3,541.4	0.00	0.00	
10,800.0	90.00	180.00	7,429.0	-3,641.4	1,537.1	3,641.4	0.00	0.00	
10,900.0	90.00	180.00	7,429.0	-3,741.4	1,537.1	3,741.4	0.00	0.00	
11,000.0	90.00	180.00	7,429.0	-3,841.4	1,537.1	3,841.4	0.00	0.00	
11,100.0	90.00	180.00	7,429.0	-3,941.4	1,537.1	3,941.4	0.00	0.00	
11,200.0	90.00	180.00	7,429.0	-4,041.4	1,537.1	4,041.4	0.00	0.00	
11,300.0	90.00	180.00	7,429.0	-4,141.4	1,537.1	4,141.4	0.00	0.00	
11,400.0	90.00	180.00	7,429.0	-4,241.4	1,537.1	4,241.4	0.00	0.00	
11,500.0	90.00	180.00	7,429.0	-4,341.4	1,537.1	4,341.4	0.00	0.00	
11,600.0	90.00	180.00	7,429.0	-4,441.4	1,537.1	4,441.4	0.00	0.00	
11,700.0	90.00	180.00	7,429.0	-4,541.4	1,537.1	4,541.4	0.00	0.00	
11,800.0	90.00	180.00	7,429.0	-4,641.4	1,537.1	4,641.4	0.00	0.00	
11,900.0	90.00	180.00	7,429.0	-4,741.4	1,537.1	4,741.4	0.00	0.00	
12,000.0	90.00	180.00	7,429.0	-4,841.4	1,537.1	4,841.4	0.00	0.00	
12,100.0	90.00	180.00	7,429.0	-4,941.4	1,537.1	4,941.4	0.00	0.00	
12,200.0	90.00	180.00	7,429.0	-5,041.4	1,537.1	5,041.4	0.00	0.00	
12,300.0	90.00	180.00	7,429.0	-5,141.4	1,537.1	5,141.4	0.00	0.00	
12,400.0	90.00	180.00	7,429.0	-5,241.4	1,537.1	5,241.4	0.00	0.00	
12,500.0	90.00	180.00	7,429.0	-5,341.4	1,537.1	5,341.4	0.00	0.00	
12,600.0	90.00	180.00	7,429.0	-5,441.4	1,537.1	5,441.4	0.00	0.00	
12,640.9	90.00	180.00	7,429.0	-5,482.3	1,537.1	5,482.3	0.00	0.00	TD at 12640.9 - Hwy 52 4G-32H-O268 PBHL

## 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									
Hwy 52 4G-32H-O268 P	0.00	0.00	7,429.0	-5,482.3	1,537.1	1,270,275.71	3,134,475.57	40.074290	-105.019490
- plan hits target center									
- Point									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>North Reference:</b>	True
<b>Well:</b>	Hwy 52 4G-32H-O268	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
329.0	329.0	Fox Hills - BASE				
4,474.7	4,382.0	Sussex				
4,748.8	4,648.0	Sussex Marker				
5,049.7	4,940.0	Shannon				
6,657.0	6,500.0	Teepee Buttes (*if present)				
7,489.4	7,265.0	Sharon Springs				
7,629.8	7,349.0	Niobrara				
7,832.1	7,419.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
750.0	750.0	0.0	0.0	KOP @ 750'	
1,150.0	1,148.7	-1.0	27.9	Start build/turn @ 1150' MD	
1,757.4	1,744.7	-13.7	142.5	End of build/turn @ 1757' MD	
7,062.1	6,893.1	-209.7	1,405.7	Start curve @ 7062' MD	
7,940.9	7,429.0	-782.3	1,537.1	LP @ 7429' TVD; 90°	
12,640.9	7,429.0	-5,482.3	1,537.1	TD at 12640.9	

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

**DJ Wattenberg**

**S32-T2N-R68W (File/Hwy 52)**

**Hwy 52 4G-32H-O268**

**Hz**

**Plan #1**

## **Anticollision Report**

**05 July, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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>	7/5/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	12,640.9	Plan #1 (Hz)	Geolink MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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
Offset Well - Wellbore - Design						
S32-T2N-R68W (File/Hwy 52)						
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 31-32 (EXISTING) - ENCANA WELL - PLAN						Out of range
ANDERSON 32-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 32-7 (EXISTING) - KPK WELL - NO SURVE						Out of range
ANDERSON 41-32 (EXISTING) - ENCANA WELL - NO S						Out of range
ANDERSON 42-32 (EXISTING) - BASIN EXP WELL - NO						Out of range
ANDERSON 4-2-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON 6-4-32 (EXISTING) - ENCANA WELL - SUR						Out of range
ANDERSON TRUST 1 (EXISTING) - KPK WELL - NO S						Out of range
ANDERSON TRUST 1 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 2 A (EXISTING) - ENCANA WELL -						Out of range
ANDERSON TRUST 32-2 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST 32-8 (EXISTING) - ENCANA WELL						Out of range
ANDERSON TRUST C 1 (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						Out of range
BROWN 31-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA	8,402.3	7,689.5	207.1	151.6	3.731	CC, ES, SF
BROWN 5-3 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN 5-5 (EXISTING) - ENCANA WELL - NO SURVE						Out of range
BROWN C UNIT 1 (EXISTING) - ENCANA WELL - NO S						Out of range
BROWN C UNIT 2 (EXISTING) - ENCANA WELL - NO S						Out of range
CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVE	5,271.3	5,034.0	499.3	474.9	20.479	CC, ES, SF
CANINO 2 (EXISTING) - HUGHES CW WELL - NO SUR	7,100.0	6,871.9	104.5	64.0	2.579	CC, ES, SF
CANINO 3 (EXISTING) - HUGHES CW WELL - NO SUR	1,346.5	1,284.8	9.1	4.2	1.873	CC, ES, SF
FEDERAL NOAA 11-32 (EXISTING) - ENCANA WELL - N						Out of range
File 3A-32H-K268 - Hz - Plan #1						Out of range
File 3B-32H-K268 - Hz - Plan #1						Out of range
File 3C-32H-K268 - Hz - Plan #1						Out of range
File 3D-32H-K268 - Hz - Plan #1						Out of range
File 3E-32H-K268 - Hz - Plan #1						Out of range
File 3F-32H-K268 - Hz - Plan #1						Out of range
File 3G-32H-K268 - Hz - Plan #1						Out of range
File 3H-32H-K268 - Hz - Plan #1						Out of range
File 3I-32H-K268 - Hz - Plan #1						Out of range
File 3J-32H-K268 - Hz - Plan #1						Out of range
File 3K-32H-K268 - Hz - Plan #1						Out of range
File 3L-32H-K268 - Hz - Plan #1						Out of range
File 3M-32H-K268 - Hz - Plan #1						Out of range
File 3N-32H-K268 - Hz - Plan #1						Out of range
File 3O-32H-K268 - Hz - Plan #1						Out of range
File 3P-32H-K268 - Hz - Plan #1						Out of range
FOSTER 33-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEY	11,076.0	7,732.5	194.6	94.4	1.942	CC, ES, SF
FOSTER 4-5 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
FOSTER 4-6-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 6-4-5X (EXISTING) - ENCANA WELL - SURVE						Out of range
FOSTER 6-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER 8-8-5 (EXISTING) - ENCANA WELL - SURVEY						Out of range
FOSTER E UNIT 1 (EXISTING) - ENCANA WELL - NO S						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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S32-T2N-R68W (File/Hwy 52)						
GENE 11-5 (EXISTING) - KERR-MCGEE WELL - NO SU						Out of range
HIGHLAND 21-5 (EXISTING) - KPK WELL - NO SURVE						Out of range
HOPE 31-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
Hwy 52 4A-32H-O268 - Hz - Plan #1	166.3	167.3	40.0	39.5	75.474	CC
Hwy 52 4A-32H-O268 - Hz - Plan #1	200.0	201.0	40.0	39.4	61.775	ES
Hwy 52 4A-32H-O268 - Hz - Plan #1	700.0	697.0	61.0	58.6	24.811	SF
Hwy 52 4B-32H-O268 - Hz - Plan #1	200.0	200.0	35.5	34.9	54.989	CC, ES
Hwy 52 4B-32H-O268 - Hz - Plan #1	800.0	798.1	55.2	52.5	20.162	SF
Hwy 52 4C-32H-O268 - Hz - Plan #1	814.5	815.1	25.2	22.4	9.026	CC, ES
Hwy 52 4C-32H-O268 - Hz - Plan #1	900.0	900.6	26.5	23.4	8.573	SF
Hwy 52 4D-32H-O268 - Hz - Plan #1	917.2	918.4	18.0	14.8	5.678	CC, ES
Hwy 52 4D-32H-O268 - Hz - Plan #1	1,000.0	1,001.2	19.0	15.5	5.452	SF
Hwy 52 4E-32H-O268 - Hz - Plan #1	700.0	700.0	10.0	7.6	4.182	CC
Hwy 52 4E-32H-O268 - Hz - Plan #1	727.8	727.8	10.1	7.6	4.046	ES
Hwy 52 4E-32H-O268 - Hz - Plan #1	800.0	800.0	10.4	7.7	3.809	SF
Hwy 52 4F-32H-O268 - Hz - Plan #1	500.0	500.0	7.8	6.1	4.613	CC
Hwy 52 4F-32H-O268 - Hz - Plan #1	600.0	600.0	8.0	6.0	3.926	ES
Hwy 52 4F-32H-O268 - Hz - Plan #1	12,640.9	13,239.4	450.0	293.9	2.884	SF
Hwy 52 4H-32H-O268 - Hz - Plan #1	916.1	916.0	6.1	3.0	1.951	CC, ES, SF
Hwy 52 4I-32H-O268 - Hz - Plan #1	602.4	601.7	14.2	12.2	6.934	CC, ES
Hwy 52 4I-32H-O268 - Hz - Plan #1	700.0	699.0	16.1	13.7	6.710	SF
Hwy 52 4J-32H-O268 - Hz - Plan #1	639.4	638.6	23.7	21.5	10.874	CC, ES
Hwy 52 4J-32H-O268 - Hz - Plan #1	900.0	898.0	29.1	26.0	9.263	SF
Hwy 52 4K-32H-O268 - Hz - Plan #1	400.0	399.0	30.0	28.7	22.352	CC, ES
Hwy 52 4K-32H-O268 - Hz - Plan #1	1,300.0	1,293.6	52.3	47.5	11.084	SF
Hwy 52 4L-32H-O268 - Hz - Plan #1	500.0	499.0	35.5	33.8	20.997	CC
Hwy 52 4L-32H-O268 - Hz - Plan #1	1,200.0	1,194.4	37.2	33.0	8.923	ES
Hwy 52 4L-32H-O268 - Hz - Plan #1	1,400.0	1,392.9	42.7	37.5	8.224	SF
Hwy 52 4M-32H-O268 - Hz - Plan #1	1,465.6	1,456.1	41.1	35.8	7.819	CC
Hwy 52 4M-32H-O268 - Hz - Plan #1	1,500.0	1,490.1	41.2	35.8	7.561	ES
Hwy 52 4M-32H-O268 - Hz - Plan #1	1,800.0	1,788.0	51.0	43.1	6.496	SF
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,658.8	1,649.0	23.0	16.7	3.615	CC
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,700.0	1,689.8	23.3	16.6	3.442	ES
Hwy 52 4N-32H-O268 - Hz - Plan #1	1,800.0	1,789.1	26.7	18.9	3.427	SF
Hwy 52 4O-32H-O268 - Hz - Plan #1	400.0	399.0	65.2	63.9	48.594	CC, ES
Hwy 52 4O-32H-O268 - Hz - Plan #1	7,638.5	7,537.0	135.5	103.7	4.254	SF
Hwy 52 4P-32H-O268 - Hz - Plan #1	200.0	199.0	71.1	70.4	110.385	CC, ES
Hwy 52 4P-32H-O268 - Hz - Plan #1	7,500.0	7,372.9	428.8	398.8	14.293	SF
LAURIE 32-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NATALIE 33-5 (EXISTING) - KPK WELL - NO SURVEYS						Out of range
NELSON 1 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 1 A (EXISTING) - TEXAS TEA WELL - NO SUR						Out of range
NELSON 2 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 3 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
NELSON 4 (EXISTING) - TEXAS TEA WELL - NO SURV						Out of range
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
NELSON E UNIT 2 (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

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
S32-T2N-R68W (File/Hwy 52)						
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						Out of range
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 (EXISTING) - ENCANA WELL - EN	1,459.4	1,403.9	368.7	363.4	69.884	CC, ES
RAY NELSON 33-32 (EXISTING) - ENCANA WELL - EN	2,200.0	2,053.0	471.0	461.2	48.029	SF
RAY NELSON 34-32 (EXISTING) - ENCANA WELL - EN	1,919.9	1,893.3	15.1	7.0	1.873	CC, ES, SF
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	144.0	134.0	416.5	416.1	962.178	CC
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	6,900.0	6,849.8	434.5	384.2	8.643	ES
RAY NELSON 44-32 (EXISTING) - ENCANA WELL - EN	7,100.0	7,046.8	438.3	386.8	8.513	SF
RAY NELSON 4-4-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-6-32 (EXISTING) - ENCANA WELL - SU						Out of range
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 4-8-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL	5,049.1	5,053.3	118.1	88.6	4.003	CC, ES
RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PL	5,100.0	5,101.4	119.2	89.4	3.994	SF
Ray Nelson 7-8-32 - DD - Plan #1	7,600.0	7,450.5	240.1	199.8	5.965	SF
Ray Nelson 7-8-32 - DD - Plan #1	7,670.4	7,485.3	233.3	194.8	6.063	CC, ES
RAY NELSON 8-4-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-6-32 (EXISTING) - ENCANA WELL - PL						Out of range
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	0.0	0.0	421.0			
RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SU	7,729.2	7,680.4	447.1	407.6	11.305	ES, SF
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						Out of range
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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - BROWN 41-5 (EXISTING) - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	59.94	207.7	358.9	414.8						
100.0	100.0	86.8	86.8	0.1	0.1	59.99	207.6	359.5	415.1	414.9	0.27	1,515.043			
200.0	200.0	186.1	186.1	0.3	0.3	60.07	207.6	360.5	416.0	415.4	0.62	668.294			
300.0	300.0	287.7	287.7	0.5	0.5	60.17	207.3	361.6	416.8	415.9	0.97	427.573			
400.0	400.0	398.9	398.9	0.7	0.7	60.47	205.0	361.9	416.0	414.7	1.34	309.866			
500.0	500.0	506.7	506.4	0.8	0.9	61.24	198.5	361.6	412.8	411.1	1.71	241.688			
600.0	600.0	614.6	613.7	1.0	1.1	62.75	186.5	362.1	407.9	405.9	2.08	195.818			
700.0	700.0	717.9	715.6	1.2	1.5	64.94	169.7	363.0	401.6	399.1	2.46	163.502			
800.0	800.0	810.1	806.3	1.4	1.8	-24.82	153.2	364.9	395.7	392.6	3.11	127.414			
900.0	899.9	906.0	900.4	1.5	2.1	-22.44	135.4	368.6	389.2	385.6	3.62	107.535			
1,000.0	999.7	1,004.4	996.7	1.7	2.5	-19.85	115.6	373.2	380.5	376.3	4.19	90.900			
1,100.0	1,099.1	1,098.7	1,087.9	2.0	2.9	-16.75	92.7	379.0	369.7	364.9	4.80	77.035			
1,200.0	1,198.2	1,185.9	1,171.8	2.2	3.4	-14.36	69.5	386.4	358.8	353.4	5.39	66.518			
1,300.0	1,297.0	1,272.1	1,254.1	2.5	3.8	-12.44	46.2	396.2	350.6	344.6	5.99	58.476			
1,400.0	1,395.5	1,359.3	1,337.1	2.8	4.3	-10.09	22.7	408.6	345.3	338.7	6.56	52.605			
1,500.0	1,493.6	1,445.7	1,419.3	3.1	4.7	-7.69	0.2	423.4	342.9	335.8	7.09	48.358			
1,559.8	1,552.2	1,500.8	1,471.4	3.3	5.1	-6.06	-14.1	433.9	342.7	335.3	7.41	46.269			
1,600.0	1,591.5	1,538.0	1,506.5	3.5	5.3	-4.91	-24.0	441.2	342.8	335.2	7.61	45.052			
1,700.0	1,689.0	1,628.0	1,591.4	3.8	5.8	-2.19	-47.4	459.7	343.9	335.8	8.05	42.706			
1,800.0	1,786.1	1,720.2	1,678.1	4.3	6.3	0.83	-71.2	480.4	346.6	338.1	8.48	40.879			
1,900.0	1,883.2	1,811.0	1,762.6	4.7	6.9	4.30	-96.2	502.4	352.7	343.8	8.89	39.664			
2,000.0	1,980.2	1,910.9	1,855.0	5.1	7.6	8.36	-126.1	525.9	360.5	351.2	9.29	38.807			
2,100.0	2,077.3	2,008.1	1,945.2	5.6	8.2	11.91	-153.7	549.3	370.0	360.4	9.62	38.469			
2,200.0	2,174.3	2,106.4	2,036.9	6.0	8.9	14.99	-179.4	573.1	379.8	369.9	9.94	38.217			
2,300.0	2,271.4	2,201.4	2,125.3	6.5	9.5	17.93	-205.2	596.5	391.7	381.4	10.24	38.247			
2,400.0	2,368.4	2,301.9	2,219.2	6.9	10.1	20.63	-231.0	621.8	404.1	393.5	10.54	38.344			
2,500.0	2,465.5	2,397.9	2,308.9	7.4	10.7	23.02	-255.2	645.7	417.0	406.1	10.85	38.429			
2,600.0	2,562.5	2,507.7	2,411.8	7.8	11.4	25.79	-283.8	671.5	429.8	418.6	11.19	38.417			
2,700.0	2,659.6	2,609.9	2,508.3	8.3	12.1	28.44	-310.1	692.5	440.9	429.4	11.54	38.212			
2,800.0	2,756.6	2,697.1	2,590.4	8.7	12.6	30.58	-333.0	710.8	453.5	441.6	11.90	38.118			
2,900.0	2,853.7	2,775.7	2,663.4	9.2	13.2	32.57	-356.2	728.5	470.3	458.0	12.28	38.309			
3,000.0	2,950.7	2,865.0	2,745.3	9.6	13.8	34.75	-384.4	749.6	490.4	477.7	12.69	38.646			
8,000.0	7,429.0	7,681.7	7,415.1	34.5	33.7	88.93	-1,243.5	1,330.0	452.4	402.9	49.46	9.146			
8,100.0	7,429.0	7,683.7	7,417.1	35.3	33.7	89.48	-1,243.6	1,330.0	366.4	315.4	50.91	7.196			
8,200.0	7,429.0	7,685.7	7,419.1	36.2	33.7	90.02	-1,243.6	1,330.0	289.5	237.0	52.40	5.524			
8,300.0	7,429.0	7,687.6	7,421.0	37.2	33.7	90.55	-1,243.7	1,330.1	230.9	177.0	53.92	4.283			
8,400.0	7,429.0	7,689.5	7,422.9	38.3	33.7	91.07	-1,243.7	1,330.1	207.1	151.6	55.47	3.733			
8,402.3	7,429.0	7,689.5	7,422.9	38.3	33.7	91.08	-1,243.7	1,330.1	207.1	151.6	55.50	3.731 CC, ES, SF			
8,500.0	7,429.0	7,691.3	7,424.7	39.3	33.7	91.58	-1,243.7	1,330.1	229.0	171.9	57.03	4.014			
8,600.0	7,429.0	7,693.1	7,426.5	40.5	33.7	92.08	-1,243.8	1,330.2	286.3	227.7	58.61	4.884			
8,700.0	7,429.0	7,694.9	7,428.3	41.7	33.7	92.56	-1,243.8	1,330.2	362.6	302.4	60.21	6.022			
8,800.0	7,429.0	7,696.6	7,430.0	42.9	33.7	93.04	-1,243.8	1,330.2	448.3	386.5	61.81	7.253			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - CANINO 1-X (EXISTING) - ENCANA WELL - NO SURVEYS													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 5034-Geolink MWD													<b>Offset Well Error:</b> 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,271.3	5,155.2	5,034.0	5,034.0	20.1	8.8	-45.62	157.1	1,368.9	499.3	474.9	24.38	20.479	CC, ES, SF

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - CANINO 2 (EXISTING) - HUGHES CW WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7800-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,988.9	4,930.9	4,930.9	19.3	8.6	-12.26	-110.3	1,436.9	499.2	481.2	18.01	27.710		
5,200.0	5,085.9	5,027.9	5,027.9	19.8	8.8	-12.88	-110.3	1,436.9	475.6	457.2	18.45	25.781		
5,300.0	5,183.0	5,125.0	5,125.0	20.3	8.9	-13.56	-110.3	1,436.9	452.1	433.2	18.90	23.926		
5,400.0	5,280.0	5,222.0	5,222.0	20.7	9.1	-14.31	-110.3	1,436.9	428.7	409.3	19.36	22.139		
5,500.0	5,377.1	5,319.1	5,319.1	21.2	9.3	-15.15	-110.3	1,436.9	405.4	385.5	19.85	20.417		
5,600.0	5,474.1	5,416.1	5,416.1	21.7	9.5	-16.10	-110.3	1,436.9	382.1	361.7	20.37	18.758		
5,700.0	5,571.2	5,513.2	5,513.2	22.1	9.6	-17.16	-110.3	1,436.9	359.0	338.0	20.92	17.158		
5,800.0	5,668.2	5,610.2	5,610.2	22.6	9.8	-18.37	-110.3	1,436.9	336.0	314.4	21.51	15.616		
5,900.0	5,765.3	5,707.3	5,707.3	23.0	10.0	-19.75	-110.3	1,436.9	313.1	290.9	22.16	14.130		
6,000.0	5,862.3	5,804.3	5,804.3	23.5	10.1	-21.35	-110.3	1,436.9	290.5	267.6	22.87	12.701		
6,100.0	5,959.4	5,901.4	5,901.4	24.0	10.3	-23.22	-110.3	1,436.9	268.1	244.4	23.67	11.327		
6,200.0	6,056.4	5,998.4	5,998.4	24.4	10.5	-25.42	-110.3	1,436.9	246.0	221.4	24.57	10.012		
6,300.0	6,153.5	6,095.5	6,095.5	24.9	10.6	-28.05	-110.3	1,436.9	224.3	198.7	25.61	8.760		
6,400.0	6,250.6	6,192.6	6,192.6	25.4	10.8	-31.22	-110.3	1,436.9	203.2	176.4	26.83	7.575		
6,500.0	6,347.6	6,289.6	6,289.6	25.8	11.0	-35.10	-110.3	1,436.9	182.9	154.6	28.27	6.469		
6,600.0	6,444.7	6,386.7	6,386.7	26.3	11.1	-39.90	-110.3	1,436.9	163.5	133.5	29.99	5.454		
6,700.0	6,541.7	6,483.7	6,483.7	26.8	11.3	-45.90	-110.3	1,436.9	145.6	113.6	32.01	4.549		
6,800.0	6,638.8	6,580.8	6,580.8	27.2	11.5	-53.42	-110.3	1,436.9	129.7	95.4	34.32	3.779		
6,900.0	6,735.8	6,677.8	6,677.8	27.7	11.7	-62.74	-110.3	1,436.9	116.7	79.9	36.79	3.171		
7,000.0	6,832.9	6,774.9	6,774.9	28.2	11.8	-73.92	-110.3	1,436.9	107.5	68.4	39.04	2.753		
7,076.7	6,907.2	6,849.2	6,849.2	28.5	12.0	-94.83	-110.3	1,436.9	105.6	65.3	40.29	2.622		
7,100.0	6,929.9	6,871.9	6,871.9	28.6	12.0	-100.82	-110.3	1,436.9	104.5	64.0	40.51	2.579 CC, ES, SF		
7,200.0	7,025.1	6,967.1	6,967.1	29.1	12.2	-138.71	-110.3	1,436.9	121.0	81.1	39.90	3.033		
7,300.0	7,115.7	7,057.7	7,057.7	29.7	12.3	-159.99	-110.3	1,436.9	158.4	120.9	37.46	4.227		
7,400.0	7,198.9	7,140.9	7,140.9	30.2	12.5	-171.98	-110.3	1,436.9	212.5	178.4	34.11	6.229		
7,500.0	7,272.2	7,214.2	7,214.2	30.8	12.6	-179.61	-110.3	1,436.9	280.2	250.1	30.12	9.302		
7,600.0	7,333.4	7,275.4	7,275.4	31.5	12.7	174.17	-110.3	1,436.9	359.2	333.5	25.66	13.999		
7,700.0	7,380.5	7,322.5	7,322.5	32.2	12.8	166.79	-110.3	1,436.9	447.0	425.7	21.29	20.996		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - CANINO 3 (EXISTING) - HUGHES CW WELL - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 7800-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	101.76	-12.0	57.6	82.6					
100.0	100.0	42.0	42.0	0.1	0.1	101.76	-12.0	57.6	58.8	58.6	0.22	265.027		
200.0	200.0	142.0	142.0	0.3	0.2	101.76	-12.0	57.6	58.8	58.2	0.57	102.988		
300.0	300.0	242.0	242.0	0.5	0.4	101.76	-12.0	57.6	58.8	57.9	0.92	63.912		
400.0	400.0	342.0	342.0	0.7	0.6	101.76	-12.0	57.6	58.8	57.5	1.27	46.332		
500.0	500.0	442.0	442.0	0.8	0.8	101.76	-12.0	57.6	58.8	57.2	1.62	36.337		
600.0	600.0	542.0	542.0	1.0	0.9	101.76	-12.0	57.6	58.8	56.8	1.97	29.889		
700.0	700.0	642.0	642.0	1.2	1.1	101.76	-12.0	57.6	58.8	56.5	2.32	25.385		
800.0	800.0	742.0	742.0	1.4	1.3	9.84	-12.0	57.6	58.4	55.7	2.67	21.901		
900.0	899.9	841.9	841.9	1.5	1.5	10.47	-12.0	57.6	54.9	51.9	3.01	18.239		
1,000.0	999.7	941.7	941.7	1.7	1.6	12.01	-12.0	57.6	48.1	44.7	3.36	14.328		
1,100.0	1,099.1	1,041.1	1,041.1	2.0	1.8	15.35	-12.0	57.6	37.9	34.2	3.70	10.249		
1,200.0	1,198.2	1,140.2	1,140.2	2.2	2.0	22.71	-12.0	57.6	25.0	20.9	4.06	6.149		
1,300.0	1,297.0	1,239.0	1,239.0	2.5	2.2	50.11	-12.0	57.6	11.9	7.4	4.53	2.637		
1,346.5	1,342.8	1,284.8	1,284.8	2.6	2.2	90.00	-12.0	57.6	9.1	4.2	4.84	1.873 CC, ES, SF		
1,400.0	1,395.5	1,337.5	1,337.5	2.8	2.3	135.20	-12.0	57.6	13.1	8.2	4.90	2.666		
1,500.0	1,493.6	1,435.6	1,435.6	3.1	2.5	161.06	-12.0	57.6	29.7	24.6	5.10	5.819		
1,600.0	1,591.5	1,533.5	1,533.5	3.5	2.7	168.05	-12.0	57.6	49.6	44.2	5.40	9.179		
1,700.0	1,689.0	1,631.0	1,631.0	3.8	2.8	171.06	-12.0	57.6	71.6	65.8	5.73	12.495		
1,800.0	1,786.1	1,728.1	1,728.1	4.3	3.0	172.94	-12.0	57.6	95.2	89.1	6.06	15.709		
1,900.0	1,883.2	1,825.2	1,825.2	4.7	3.2	174.37	-12.0	57.6	119.1	112.7	6.40	18.618		
2,000.0	1,980.2	1,922.2	1,922.2	5.1	3.4	175.31	-12.0	57.6	143.1	136.4	6.74	21.238		
2,100.0	2,077.3	2,019.3	2,019.3	5.6	3.5	175.99	-12.0	57.6	167.2	160.1	7.08	23.607		
2,200.0	2,174.3	2,116.3	2,116.3	6.0	3.7	176.49	-12.0	57.6	191.2	183.8	7.42	25.760		
2,300.0	2,271.4	2,213.4	2,213.4	6.5	3.9	176.89	-12.0	57.6	215.3	207.5	7.76	27.723		
2,400.0	2,368.4	2,310.4	2,310.4	6.9	4.0	177.20	-12.0	57.6	239.3	231.2	8.11	29.522		
2,500.0	2,465.5	2,407.5	2,407.5	7.4	4.2	177.46	-12.0	57.6	263.4	255.0	8.45	31.176		
2,600.0	2,562.5	2,504.5	2,504.5	7.8	4.4	177.67	-12.0	57.6	287.5	278.7	8.79	32.701		
2,700.0	2,659.6	2,601.6	2,601.6	8.3	4.5	177.85	-12.0	57.6	311.6	302.4	9.13	34.113		
2,800.0	2,756.6	2,698.6	2,698.6	8.7	4.7	178.00	-12.0	57.6	335.6	326.2	9.48	35.423		
2,900.0	2,853.7	2,795.7	2,795.7	9.2	4.9	178.14	-12.0	57.6	359.7	349.9	9.82	36.641		
3,000.0	2,950.7	2,892.7	2,892.7	9.6	5.0	178.25	-12.0	57.6	383.8	373.7	10.16	37.778		
3,100.0	3,047.8	2,989.8	2,989.8	10.1	5.2	178.36	-12.0	57.6	407.9	397.4	10.50	38.841		
3,200.0	3,144.8	3,086.8	3,086.8	10.5	5.4	178.45	-12.0	57.6	432.0	421.1	10.84	39.837		
3,300.0	3,241.9	3,183.9	3,183.9	11.0	5.6	178.53	-12.0	57.6	456.1	444.9	11.19	40.772		
3,400.0	3,339.0	3,281.0	3,281.0	11.5	5.7	178.60	-12.0	57.6	480.2	468.6	11.53	41.652		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - FOSTER 43-5 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 105-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
10,700.0	7,429.0	7,746.5	7,486.7	70.5	30.9	94.63	-3,916.9	1,342.6	423.2	329.7	93.55	4.524		
10,800.0	7,429.0	7,742.8	7,483.0	72.1	30.9	93.53	-3,917.1	1,342.6	337.6	242.2	95.37	3.540		
10,900.0	7,429.0	7,739.0	7,479.2	73.7	30.9	92.43	-3,917.2	1,342.6	262.4	165.2	97.16	2.700		
11,000.0	7,429.0	7,735.3	7,475.5	75.3	30.9	91.33	-3,917.3	1,342.5	209.0	110.0	98.92	2.112		
11,076.0	7,429.0	7,732.5	7,472.7	76.5	30.9	90.49	-3,917.4	1,342.5	194.6	94.4	100.24	1.942 CC, ES, SF		
11,100.0	7,429.0	7,731.6	7,471.8	76.9	30.9	90.23	-3,917.5	1,342.5	196.1	95.5	100.66	1.948		
11,200.0	7,429.0	7,727.9	7,468.1	78.5	30.9	89.14	-3,917.6	1,342.5	230.7	128.4	102.35	2.254		
11,300.0	7,429.0	7,724.1	7,464.4	80.1	30.9	88.05	-3,917.7	1,342.4	296.6	192.6	104.02	2.851		
11,400.0	7,429.0	7,720.5	7,460.7	81.7	30.9	86.97	-3,917.9	1,342.4	377.7	272.1	105.65	3.576		
11,500.0	7,429.0	7,716.8	7,457.0	83.4	30.9	85.89	-3,918.0	1,342.4	466.2	359.0	107.24	4.348		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4A-32H-O268 - 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	1.0	1.0	0.0	0.0	-89.69	0.2	-40.0	40.0					
100.0	100.0	101.0	101.0	0.1	0.2	-89.69	0.2	-40.0	40.0	39.7	0.30	134.025		
166.3	166.3	167.3	167.3	0.3	0.3	-89.69	0.2	-40.0	40.0	39.5	0.53	75.474 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-89.69	0.2	-40.0	40.0	39.4	0.65	61.775 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-89.41	0.4	-40.8	40.9	39.9	1.00	41.038		
400.0	400.0	399.6	399.5	0.7	0.7	-88.64	1.0	-43.4	43.4	42.1	1.35	32.184		
500.0	500.0	498.7	498.6	0.8	0.9	-87.53	2.0	-47.6	47.7	46.0	1.71	27.893		
600.0	600.0	597.7	597.3	1.0	1.1	-86.29	3.5	-53.4	53.6	51.6	2.08	25.789		
700.0	700.0	697.0	696.4	1.2	1.3	-85.08	5.2	-60.6	61.0	58.6	2.46	24.811 SF		
800.0	800.0	796.7	795.8	1.4	1.5	-176.13	7.0	-68.0	69.0	66.3	2.74	25.235		
900.0	899.9	896.0	894.9	1.5	1.7	-175.55	8.8	-75.4	80.1	77.0	3.08	25.998		
1,000.0	999.7	995.0	993.5	1.7	1.9	-175.27	10.6	-82.8	94.6	91.1	3.42	27.649		
1,100.0	1,099.1	1,093.4	1,091.6	2.0	2.1	-175.21	12.4	-90.1	112.5	108.7	3.76	29.950		
1,200.0	1,198.2	1,191.1	1,189.1	2.2	2.3	-176.20	14.1	-97.3	133.6	129.5	4.09	32.663		
1,300.0	1,297.0	1,288.4	1,286.1	2.5	2.5	-177.73	15.9	-104.5	156.6	152.2	4.43	35.386		
1,400.0	1,395.5	1,385.3	1,382.7	2.8	2.7	-178.89	17.6	-111.7	181.3	176.5	4.76	38.096		
1,500.0	1,493.6	1,481.8	1,478.9	3.1	3.0	-179.77	19.3	-118.9	207.6	202.5	5.09	40.798		
1,600.0	1,591.5	1,577.8	1,574.6	3.5	3.2	179.54	21.1	-126.0	235.6	230.2	5.42	43.498		
1,700.0	1,689.0	1,673.3	1,669.8	3.8	3.4	179.00	22.8	-133.1	265.2	259.5	5.74	46.201		
1,800.0	1,786.1	1,768.3	1,764.6	4.3	3.6	178.86	24.5	-140.1	296.4	290.3	6.07	48.829		
1,900.0	1,883.2	1,863.3	1,859.2	4.7	3.8	179.08	26.2	-147.2	327.8	321.3	6.41	51.161		
2,000.0	1,980.2	1,958.2	1,953.9	5.1	4.0	179.26	27.9	-154.2	359.2	352.4	6.74	53.261		
2,100.0	2,077.3	2,053.1	2,048.6	5.6	4.2	179.41	29.6	-161.3	390.6	383.5	7.08	55.161		
2,200.0	2,174.3	2,148.1	2,143.2	6.0	4.4	179.54	31.3	-168.3	422.0	414.5	7.42	56.890		
2,300.0	2,271.4	2,243.0	2,237.9	6.5	4.6	179.66	33.0	-175.4	453.4	445.6	7.75	58.469		
2,400.0	2,368.4	2,337.9	2,332.5	6.9	4.8	179.75	34.8	-182.4	484.8	476.7	8.09	59.917		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4B-32H-O268 - 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	-79.97	6.2	-35.0	35.5					
100.0	100.0	100.0	100.0	0.1	0.1	-79.97	6.2	-35.0	35.5					
200.0	200.0	200.0	200.0	0.3	0.3	-79.97	6.2	-35.0	35.5					
300.0	300.0	299.4	299.4	0.5	0.5	-79.64	6.5	-35.8	36.4	0.30		119.683		
400.0	400.0	398.7	398.7	0.7	0.7	-78.74	7.6	-38.1	38.9	0.65		54.989 CC, ES		
500.0	500.0	498.4	498.3	0.8	0.9	-77.58	9.2	-41.7	42.8	0.99		36.549		
600.0	600.0	598.3	598.1	1.0	1.0	-76.58	10.8	-45.4	46.8	1.35		28.860		
700.0	700.0	698.2	698.0	1.2	1.2	-75.74	12.5	-49.2	50.8	1.70		25.085		
800.0	800.0	798.1	797.8	1.4	1.4	-167.12	14.1	-52.9	55.2	2.06		22.650		
900.0	899.9	897.9	897.4	1.5	1.6	-167.21	15.8	-56.6	62.6	2.42		20.934		
1,000.0	999.7	997.3	996.7	1.7	1.8	-167.86	17.4	-60.3	73.4	2.74		20.162 SF		
1,100.0	1,099.1	1,096.2	1,095.6	2.0	2.0	-168.79	19.1	-63.9	87.6	3.08		20.304		
1,200.0	1,198.2	1,194.7	1,194.0	2.2	2.2	-170.68	20.7	-67.6	105.0	3.43		21.426		
1,300.0	1,297.0	1,292.8	1,292.0	2.5	2.3	-172.91	22.3	-71.2	124.4					
1,400.0	1,395.5	1,390.6	1,389.7	2.8	2.5	-174.60	23.9	-74.9	145.4					
1,500.0	1,493.6	1,487.9	1,487.0	3.1	2.7	-175.89	25.5	-78.5	168.2					
1,600.0	1,591.5	1,584.9	1,583.9	3.5	2.9	-176.90	27.1	-82.1	192.6					
1,700.0	1,689.0	1,681.4	1,680.3	3.8	3.1	-177.71	28.7	-85.7	218.7					
1,800.0	1,786.1	1,777.5	1,776.4	4.3	3.3	-178.08	30.3	-89.3	246.4					
1,900.0	1,883.2	1,873.6	1,872.3	4.7	3.4	-178.05	31.9	-92.8	274.3					
2,000.0	1,980.2	1,969.6	1,968.2	5.1	3.6	-178.03	33.5	-96.4	302.2					
2,100.0	2,077.3	2,065.6	2,064.2	5.6	3.8	-178.01	35.1	-100.0	330.1					
2,200.0	2,174.3	2,161.6	2,160.1	6.0	4.0	-178.00	36.7	-103.5	358.0					
2,300.0	2,271.4	2,257.7	2,256.1	6.5	4.2	-177.99	38.2	-107.1	385.9					
2,400.0	2,368.4	2,353.7	2,352.0	6.9	4.3	-177.97	39.8	-110.7	413.8					
2,500.0	2,465.5	2,449.7	2,448.0	7.4	4.5	-177.96	41.4	-114.2	441.7					
2,600.0	2,562.5	2,545.7	2,543.9	7.8	4.7	-177.96	43.0	-117.8	469.6					
2,700.0	2,659.6	2,641.8	2,639.9	8.3	4.9	-177.95	44.6	-121.4	497.5					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4C-32H-O268 - 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	-89.69	0.2	-30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.69	0.2	-30.0	30.0	29.7	101.110			
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.2	-30.0	30.0	29.4	0.65	46.456		
300.0	300.0	300.0	300.0	0.5	0.5	-89.69	0.2	-30.0	30.0	29.0	0.99	30.156		
400.0	400.0	400.0	400.0	0.7	0.7	-89.69	0.2	-30.0	30.0	28.7	1.34	22.323		
500.0	500.0	500.0	500.0	0.8	0.8	-89.69	0.2	-30.0	30.0	28.3	1.69	17.720		
600.0	600.0	600.4	600.4	1.0	1.0	-88.84	0.6	-29.2	29.2	27.2	2.04	14.312		
700.0	700.0	700.7	700.6	1.2	1.2	-86.15	1.8	-27.1	27.1	24.7	2.39	11.330		
800.0	800.0	800.6	800.6	1.4	1.4	-174.67	3.2	-24.6	25.3	22.5	2.74	9.207		
814.5	814.5	815.1	815.1	1.4	1.4	-174.18	3.4	-24.3	25.2	22.4	2.79	9.026 CC, ES		
900.0	899.9	900.6	900.5	1.5	1.6	-171.73	4.6	-22.2	26.5	23.4	3.09	8.573 SF		
1,000.0	999.7	1,000.5	1,000.3	1.7	1.7	-170.26	6.0	-19.7	31.3	27.8	3.44	9.090		
1,100.0	1,099.1	1,100.2	1,100.0	2.0	1.9	-170.11	7.3	-17.3	39.5	35.7	3.78	10.428		
1,200.0	1,198.2	1,199.5	1,199.3	2.2	2.1	-171.50	8.7	-14.8	50.9	46.7	4.13	12.323		
1,300.0	1,297.0	1,298.6	1,298.3	2.5	2.3	-173.27	10.1	-12.4	64.2	59.7	4.47	14.357		
1,400.0	1,395.5	1,397.5	1,397.2	2.8	2.4	-174.53	11.5	-10.0	79.3	74.4	4.82	16.460		
1,500.0	1,493.6	1,496.0	1,495.7	3.1	2.6	-175.46	12.8	-7.6	96.0	90.9	5.16	18.622		
1,600.0	1,591.5	1,594.3	1,593.9	3.5	2.8	-176.16	14.2	-5.2	114.5	109.0	5.50	20.832		
1,700.0	1,689.0	1,692.3	1,691.8	3.8	3.0	-176.71	15.5	-2.8	134.7	128.9	5.83	23.085		
1,800.0	1,786.1	1,789.9	1,789.4	4.3	3.2	-176.88	16.9	-0.4	156.4	150.2	6.18	25.325		
1,900.0	1,883.2	1,887.4	1,886.9	4.7	3.3	-176.71	18.2	2.0	178.4	171.9	6.53	27.341		
2,000.0	1,980.2	1,985.0	1,984.4	5.1	3.5	-176.57	19.6	4.4	200.4	193.6	6.88	29.153		
2,100.0	2,077.3	2,082.5	2,081.9	5.6	3.7	-176.46	20.9	6.8	222.4	215.2	7.22	30.789		
2,200.0	2,174.3	2,180.1	2,179.4	6.0	3.9	-176.37	22.3	9.2	244.4	236.9	7.57	32.274		
2,300.0	2,271.4	2,277.6	2,276.9	6.5	4.0	-176.29	23.6	11.6	266.5	258.5	7.92	33.628		
2,400.0	2,368.4	2,375.2	2,374.5	6.9	4.2	-176.23	25.0	14.0	288.5	280.2	8.27	34.868		
2,500.0	2,465.5	2,472.7	2,472.0	7.4	4.4	-176.17	26.3	16.4	310.5	301.9	8.62	36.007		
2,600.0	2,562.5	2,570.3	2,569.5	7.8	4.6	-176.13	27.7	18.8	332.5	323.5	8.97	37.058		
2,700.0	2,659.6	2,667.8	2,667.0	8.3	4.7	-176.09	29.0	21.2	354.5	345.2	9.32	38.030		
2,800.0	2,756.6	2,765.3	2,764.5	8.7	4.9	-176.05	30.4	23.5	376.5	366.8	9.67	38.932		
2,900.0	2,853.7	2,862.9	2,862.0	9.2	5.1	-176.02	31.7	25.9	398.5	388.5	10.02	39.770		
3,000.0	2,950.7	2,960.4	2,959.5	9.6	5.3	-175.99	33.1	28.3	420.5	410.2	10.37	40.553		
3,100.0	3,047.8	3,058.0	3,057.0	10.1	5.5	-175.96	34.4	30.7	442.5	431.8	10.72	41.284		
3,200.0	3,144.8	3,155.5	3,154.5	10.5	5.6	-175.94	35.8	33.1	464.6	453.5	11.07	41.969		
3,300.0	3,241.9	3,253.1	3,252.0	11.0	5.8	-175.92	37.1	35.5	486.6	475.1	11.42	42.612		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4D-32H-O268 - 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	-76.20	6.1	-25.0	25.7					
100.0	100.0	100.0	100.0	0.1	0.1	-76.20	6.1	-25.0	25.7	25.4	0.30	86.651		
200.0	200.0	200.0	200.0	0.3	0.3	-76.20	6.1	-25.0	25.7	25.1	0.65	39.813		
300.0	300.0	300.0	300.0	0.5	0.5	-76.20	6.1	-25.0	25.7	24.7	0.99	25.843		
400.0	400.0	400.0	400.0	0.7	0.7	-76.20	6.1	-25.0	25.7	24.4	1.34	19.131		
500.0	500.0	500.0	500.0	0.8	0.8	-76.20	6.1	-25.0	25.7	24.0	1.69	15.186		
600.0	600.0	600.4	600.4	1.0	1.0	-75.27	6.3	-24.1	24.9	22.9	2.04	12.205		
700.0	700.0	700.7	700.7	1.2	1.2	-72.10	7.0	-21.6	22.7	20.3	2.40	9.460		
800.0	800.0	800.9	800.8	1.4	1.4	-157.70	8.0	-17.3	19.5	16.7	2.75	7.088		
900.0	899.9	901.1	900.8	1.5	1.6	-149.92	9.4	-11.3	18.0	14.9	3.11	5.803		
917.2	917.1	918.4	918.0	1.6	1.6	-148.64	9.7	-10.1	18.0	14.8	3.17	5.678 CC, ES		
1,000.0	999.7	1,001.2	1,000.6	1.7	1.8	-144.37	11.2	-4.1	19.0	15.5	3.48	5.452 SF		
1,100.0	1,099.1	1,101.1	1,100.2	2.0	2.0	-144.92	13.0	3.2	22.7	18.9	3.85	5.909		
1,200.0	1,198.2	1,200.9	1,199.7	2.2	2.2	-149.74	14.7	10.5	29.3	25.1	4.22	6.951		
1,300.0	1,297.0	1,300.5	1,299.0	2.5	2.4	-154.60	16.5	17.8	37.8	33.3	4.58	8.257		
1,400.0	1,395.5	1,399.9	1,398.2	2.8	2.6	-158.30	18.2	25.0	48.2	43.2	4.95	9.737		
1,500.0	1,493.6	1,499.2	1,497.2	3.1	2.8	-161.15	20.0	32.3	60.3	55.0	5.31	11.354		
1,600.0	1,591.5	1,598.2	1,595.9	3.5	3.0	-163.38	21.7	39.5	74.1	68.5	5.67	13.079		
1,700.0	1,689.0	1,697.0	1,694.4	3.8	3.2	-165.15	23.5	46.8	89.7	83.7	6.02	14.893		
1,800.0	1,786.1	1,795.5	1,792.6	4.3	3.4	-166.33	25.2	53.9	106.9	100.5	6.39	16.742		
1,900.0	1,883.2	1,893.9	1,890.8	4.7	3.7	-166.93	27.0	61.1	124.4	117.6	6.75	18.416		
2,000.0	1,980.2	1,992.4	1,989.0	5.1	3.9	-167.38	28.7	68.3	141.9	134.8	7.12	19.917		
2,100.0	2,077.3	2,090.8	2,087.1	5.6	4.1	-167.73	30.5	75.5	159.4	151.9	7.49	21.270		
2,200.0	2,174.3	2,189.3	2,185.3	6.0	4.3	-168.01	32.2	82.7	176.9	169.0	7.86	22.494		
2,300.0	2,271.4	2,287.7	2,283.5	6.5	4.5	-168.24	33.9	89.9	194.4	186.1	8.23	23.609		
2,400.0	2,368.4	2,386.2	2,381.7	6.9	4.7	-168.44	35.7	97.1	211.9	203.3	8.60	24.627		
2,500.0	2,465.5	2,484.6	2,479.8	7.4	4.9	-168.60	37.4	104.3	229.4	220.4	8.97	25.560		
2,600.0	2,562.5	2,583.1	2,578.0	7.8	5.1	-168.74	39.2	111.5	246.9	237.6	9.35	26.419		
2,700.0	2,659.6	2,681.5	2,676.2	8.3	5.4	-168.86	40.9	118.7	264.4	254.7	9.72	27.213		
2,800.0	2,756.6	2,780.0	2,774.4	8.7	5.6	-168.97	42.6	125.9	281.9	271.8	10.09	27.948		
2,900.0	2,853.7	2,878.5	2,872.5	9.2	5.8	-169.06	44.4	133.1	299.4	289.0	10.46	28.630		
3,000.0	2,950.7	2,976.9	2,970.7	9.6	6.0	-169.15	46.1	140.3	317.0	306.1	10.83	29.266		
3,100.0	3,047.8	3,075.4	3,068.9	10.1	6.2	-169.22	47.9	147.5	334.5	323.3	11.20	29.859		
3,200.0	3,144.8	3,173.8	3,167.1	10.5	6.4	-169.29	49.6	154.7	352.0	340.4	11.57	30.414		
3,300.0	3,241.9	3,272.3	3,265.2	11.0	6.6	-169.35	51.3	161.9	369.5	357.6	11.94	30.934		
3,400.0	3,339.0	3,370.7	3,363.4	11.5	6.9	-169.41	53.1	169.1	387.0	374.7	12.32	31.423		
3,500.0	3,436.0	3,469.2	3,461.6	11.9	7.1	-169.46	54.8	176.2	404.5	391.9	12.69	31.884		
3,600.0	3,533.1	3,567.6	3,559.8	12.4	7.3	-169.50	56.6	183.4	422.1	409.0	13.06	32.317		
3,700.0	3,630.1	3,666.1	3,657.9	12.8	7.5	-169.55	58.3	190.6	439.6	426.1	13.43	32.727		
3,800.0	3,727.2	3,764.5	3,756.1	13.3	7.7	-169.59	60.1	197.8	457.1	443.3	13.80	33.115		
3,900.0	3,824.2	3,863.0	3,854.3	13.8	7.9	-169.62	61.8	205.0	474.6	460.4	14.17	33.482		
4,000.0	3,921.3	3,961.4	3,952.5	14.2	8.1	-169.66	63.5	212.2	492.1	477.6	14.55	33.831		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4E-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.69	0.1	-10.0	10.0					
100.0	100.0	100.0	100.0	0.1	0.1	-89.69	0.1	-10.0	10.0	9.7	0.30	33.703		
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.1	-10.0	10.0	9.4	0.65	15.485		
300.0	300.0	300.0	300.0	0.5	0.5	-89.69	0.1	-10.0	10.0	9.0	0.99	10.052		
400.0	400.0	400.0	400.0	0.7	0.7	-89.69	0.1	-10.0	10.0	8.7	1.34	7.441		
500.0	500.0	500.0	500.0	0.8	0.8	-89.69	0.1	-10.0	10.0	8.3	1.69	5.907		
600.0	600.0	600.0	600.0	1.0	1.0	-89.69	0.1	-10.0	10.0	8.0	2.04	4.897		
700.0	700.0	700.0	700.0	1.2	1.2	-89.69	0.1	-10.0	10.0	7.6	2.39	4.182 CC		
727.8	727.8	727.8	727.8	1.2	1.2	178.32	0.1	-10.0	10.1	7.6	2.49	4.046 ES		
800.0	800.0	800.0	800.0	1.4	1.4	178.38	0.1	-10.0	10.4	7.7	2.74	3.809 SF		
900.0	899.9	899.9	899.9	1.5	1.5	178.78	0.1	-10.0	13.9	10.8	3.09	4.512		
1,000.0	999.7	1,000.0	1,000.0	1.7	1.7	179.67	0.2	-9.1	20.0	16.6	3.43	5.843		
1,100.0	1,099.1	1,100.1	1,100.1	2.0	1.9	-179.14	0.6	-6.6	27.9	24.2	3.77	7.410		
1,200.0	1,198.2	1,200.2	1,200.1	2.2	2.1	-178.81	1.4	-2.3	37.4	33.3	4.11	9.096		
1,300.0	1,297.0	1,300.5	1,300.1	2.5	2.3	-178.69	2.4	3.8	47.1	42.7	4.46	10.572		
1,400.0	1,395.5	1,400.8	1,400.2	2.8	2.5	-178.01	3.8	11.6	56.9	52.1	4.81	11.847		
1,500.0	1,493.6	1,501.3	1,500.2	3.1	2.7	-176.97	5.4	21.1	66.8	61.7	5.16	12.962		
1,600.0	1,591.5	1,601.6	1,599.9	3.5	2.9	-175.70	7.4	32.2	77.0	71.5	5.51	13.963		
1,700.0	1,689.0	1,700.9	1,698.5	3.8	3.1	-174.63	9.3	43.7	88.5	82.6	5.87	15.072		
1,800.0	1,786.1	1,800.0	1,796.9	4.3	3.4	-173.56	11.3	55.1	101.7	95.4	6.24	16.290		
1,900.0	1,883.2	1,899.1	1,895.3	4.7	3.6	-172.44	13.3	66.6	115.2	108.6	6.62	17.390		
2,000.0	1,980.2	1,998.1	1,993.7	5.1	3.8	-171.56	15.3	78.0	128.7	121.7	7.01	18.365		
2,100.0	2,077.3	2,097.2	2,092.0	5.6	4.1	-170.85	17.2	89.5	142.3	134.9	7.40	19.232		
2,200.0	2,174.3	2,196.3	2,190.4	6.0	4.3	-170.26	19.2	100.9	155.9	148.1	7.79	20.008		
2,300.0	2,271.4	2,295.3	2,288.8	6.5	4.6	-169.76	21.2	112.3	169.5	161.3	8.19	20.704		
2,400.0	2,368.4	2,394.4	2,387.2	6.9	4.8	-169.34	23.2	123.8	183.1	174.5	8.58	21.333		
2,500.0	2,465.5	2,493.4	2,485.6	7.4	5.1	-168.98	25.2	135.2	196.7	187.7	8.98	21.902		
2,600.0	2,562.5	2,592.5	2,583.9	7.8	5.3	-168.66	27.1	146.7	210.4	201.0	9.38	22.419		
2,700.0	2,659.6	2,691.6	2,682.3	8.3	5.6	-168.38	29.1	158.1	224.0	214.2	9.78	22.892		
2,800.0	2,756.6	2,790.6	2,780.7	8.7	5.9	-168.14	31.1	169.5	237.6	227.4	10.19	23.324		
2,900.0	2,853.7	2,889.7	2,879.1	9.2	6.1	-167.92	33.1	181.0	251.3	240.7	10.59	23.722		
3,000.0	2,950.7	2,988.8	2,977.4	9.6	6.4	-167.72	35.1	192.4	264.9	253.9	11.00	24.088		
3,100.0	3,047.8	3,087.8	3,075.8	10.1	6.6	-167.54	37.0	203.9	278.6	267.2	11.40	24.427		
3,200.0	3,144.8	3,186.9	3,174.2	10.5	6.9	-167.38	39.0	215.3	292.2	280.4	11.81	24.740		
3,300.0	3,241.9	3,285.9	3,272.6	11.0	7.2	-167.24	41.0	226.8	305.9	293.6	12.22	25.032		
3,400.0	3,339.0	3,385.0	3,371.0	11.5	7.4	-167.10	43.0	238.2	319.5	306.9	12.63	25.303		
3,500.0	3,436.0	3,484.1	3,469.3	11.9	7.7	-166.98	44.9	249.6	333.2	320.1	13.04	25.557		
3,600.0	3,533.1	3,583.1	3,567.7	12.4	7.9	-166.87	46.9	261.1	346.8	333.4	13.45	25.794		
3,700.0	3,630.1	3,682.2	3,666.1	12.8	8.2	-166.76	48.9	272.5	360.5	346.6	13.86	26.016		
3,800.0	3,727.2	3,781.2	3,764.5	13.3	8.5	-166.66	50.9	284.0	374.1	359.9	14.27	26.224		
3,900.0	3,824.2	3,880.3	3,862.8	13.8	8.7	-166.57	52.9	295.4	387.8	373.1	14.68	26.421		
4,000.0	3,921.3	3,979.4	3,961.2	14.2	9.0	-166.49	54.8	306.9	401.5	386.4	15.09	26.606		
4,100.0	4,018.3	4,078.4	4,059.6	14.7	9.3	-166.41	56.8	318.3	415.1	399.6	15.50	26.780		
4,200.0	4,115.4	4,177.5	4,158.0	15.2	9.5	-166.34	58.8	329.7	428.8	412.9	15.91	26.945		
4,300.0	4,212.4	4,276.5	4,256.4	15.6	9.8	-166.27	60.8	341.2	442.5	426.1	16.33	27.101		
4,400.0	4,309.5	4,375.6	4,354.7	16.1	10.0	-166.20	62.8	352.6	456.1	439.4	16.74	27.249		
4,500.0	4,406.5	4,474.7	4,453.1	16.5	10.3	-166.14	64.7	364.1	469.8	452.6	17.15	27.390		
4,600.0	4,503.6	4,573.7	4,551.5	17.0	10.6	-166.08	66.7	375.5	483.4	465.9	17.56	27.524		
4,700.0	4,600.6	4,672.8	4,649.9	17.5	10.8	-166.03	68.7	387.0	497.1	479.1	17.98	27.651		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4F-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-39.50	6.0	-5.0	7.8					
100.0	100.0	100.0	100.0	0.1	0.1	-39.50	6.0	-5.0	7.8	7.5	0.30	26.323		
200.0	200.0	200.0	200.0	0.3	0.3	-39.50	6.0	-5.0	7.8	7.2	0.65	12.094		
300.0	300.0	300.0	300.0	0.5	0.5	-39.50	6.0	-5.0	7.8	6.8	0.99	7.851		
400.0	400.0	400.0	400.0	0.7	0.7	-39.50	6.0	-5.0	7.8	6.5	1.34	5.812		
500.0	500.0	500.0	500.0	0.8	0.8	-39.50	6.0	-5.0	7.8	6.1	1.69	4.613 CC		
524.2	524.2	524.2	524.2	0.9	0.9	-38.75	6.1	-4.9	7.8	6.0	1.78	4.395		
600.0	600.0	600.0	599.9	1.0	1.0	-26.94	7.1	-3.6	8.0	6.0	2.04	3.926 ES		
700.0	700.0	699.7	699.5	1.2	1.2	1.97	10.5	0.4	10.5	8.1	2.40	4.388		
800.0	800.0	798.9	798.4	1.4	1.4	-69.78	16.0	7.0	17.4	14.7	2.75	6.333		
900.0	899.9	897.8	896.5	1.5	1.7	-64.57	23.7	16.2	27.1	23.9	3.11	8.710		
1,000.0	999.7	997.4	995.2	1.7	1.9	-64.62	32.1	27.4	36.7	33.2	3.49	10.519		
1,100.0	1,099.1	1,097.4	1,094.1	2.0	2.2	-66.58	39.2	39.8	44.3	40.4	3.91	11.335		
1,200.0	1,198.2	1,197.5	1,193.0	2.2	2.5	-70.52	45.1	53.5	50.2	45.8	4.39	11.435		
1,300.0	1,297.0	1,297.7	1,292.0	2.5	2.8	-74.86	49.7	68.5	55.2	50.3	4.93	11.200		
1,400.0	1,395.5	1,398.0	1,391.0	2.8	3.1	-78.63	53.1	84.7	59.6	54.0	5.54	10.759		
1,500.0	1,493.6	1,498.1	1,489.6	3.1	3.4	-82.32	55.5	101.8	63.4	57.2	6.20	10.221		
1,600.0	1,591.5	1,597.9	1,587.9	3.5	3.7	-86.92	57.8	118.9	67.4	60.5	6.93	9.731		
1,700.0	1,689.0	1,697.6	1,686.1	3.8	4.1	-92.31	60.0	136.1	72.1	64.4	7.71	9.346		
1,800.0	1,786.1	1,797.3	1,784.2	4.3	4.4	-97.88	62.3	153.2	77.6	69.1	8.52	9.113		
1,900.0	1,883.2	1,896.8	1,882.3	4.7	4.7	-102.56	64.6	170.3	83.8	74.5	9.30	9.011		
2,000.0	1,980.2	1,996.4	1,980.4	5.1	5.1	-106.57	66.9	187.4	90.5	80.4	10.05	8.998		
2,100.0	2,077.3	2,096.0	2,078.5	5.6	5.4	-110.02	69.2	204.5	97.5	86.7	10.78	9.043		
2,200.0	2,174.3	2,195.6	2,176.5	6.0	5.8	-113.00	71.5	221.6	104.9	93.4	11.49	9.128		
2,300.0	2,271.4	2,295.2	2,274.6	6.5	6.1	-115.59	73.7	238.7	112.5	100.3	12.18	9.237		
2,400.0	2,368.4	2,394.8	2,372.7	6.9	6.4	-117.84	76.0	255.8	120.3	107.4	12.85	9.362		
2,500.0	2,465.5	2,494.4	2,470.8	7.4	6.8	-119.82	78.3	273.0	128.2	114.7	13.50	9.496		
2,600.0	2,562.5	2,594.0	2,568.9	7.8	7.1	-121.56	80.6	290.1	136.3	122.2	14.15	9.635		
2,700.0	2,659.6	2,693.6	2,667.0	8.3	7.5	-123.11	82.9	307.2	144.6	129.8	14.79	9.775		
2,800.0	2,756.6	2,793.2	2,765.0	8.7	7.8	-124.49	85.2	324.3	152.9	137.4	15.42	9.915		
2,900.0	2,853.7	2,892.8	2,863.1	9.2	8.2	-125.73	87.4	341.4	161.2	145.2	16.04	10.052		
3,000.0	2,950.7	2,992.3	2,961.2	9.6	8.5	-126.84	89.7	358.5	169.7	153.0	16.66	10.187		
3,100.0	3,047.8	3,091.9	3,059.3	10.1	8.9	-127.85	92.0	375.6	178.2	160.9	17.27	10.317		
3,200.0	3,144.8	3,191.5	3,157.4	10.5	9.2	-128.77	94.3	392.7	186.8	168.9	17.88	10.444		
3,300.0	3,241.9	3,291.1	3,255.5	11.0	9.6	-129.61	96.6	409.8	195.4	176.9	18.49	10.567		
3,400.0	3,339.0	3,390.7	3,353.5	11.5	9.9	-130.37	98.9	427.0	204.0	184.9	19.09	10.685		
3,500.0	3,436.0	3,490.3	3,451.6	11.9	10.3	-131.08	101.1	444.1	212.7	193.0	19.69	10.800		
3,600.0	3,533.1	3,589.9	3,549.7	12.4	10.6	-131.72	103.4	461.2	221.4	201.1	20.29	10.909		
3,700.0	3,630.1	3,689.5	3,647.8	12.8	10.9	-132.32	105.7	478.3	230.1	209.2	20.89	11.015		
3,800.0	3,727.2	3,789.1	3,745.9	13.3	11.3	-132.88	108.0	495.4	238.8	217.4	21.48	11.117		
3,900.0	3,824.2	3,888.7	3,844.0	13.8	11.6	-133.39	110.3	512.5	247.6	225.5	22.08	11.215		
4,000.0	3,921.3	3,988.3	3,942.0	14.2	12.0	-133.88	112.6	529.6	256.4	233.7	22.67	11.309		
4,100.0	4,018.3	4,087.8	4,040.1	14.7	12.3	-134.32	114.8	546.7	265.2	241.9	23.26	11.400		
4,200.0	4,115.4	4,187.4	4,138.2	15.2	12.7	-134.74	117.1	563.8	274.0	250.2	23.86	11.487		
4,300.0	4,212.4	4,287.0	4,236.3	15.6	13.0	-135.14	119.4	581.0	282.9	258.4	24.45	11.571		
4,400.0	4,309.5	4,386.6	4,334.4	16.1	13.4	-135.51	121.7	598.1	291.7	266.7	25.04	11.652		
4,500.0	4,406.5	4,486.2	4,432.5	16.5	13.7	-135.86	124.0	615.2	300.6	274.9	25.62	11.730		
4,600.0	4,503.6	4,585.8	4,530.5	17.0	14.1	-136.18	126.2	632.3	309.4	283.2	26.21	11.805		
4,700.0	4,600.6	4,685.4	4,628.6	17.5	14.4	-136.49	128.5	649.4	318.3	291.5	26.80	11.877		
4,800.0	4,697.7	4,785.0	4,726.7	17.9	14.8	-136.79	130.8	666.5	327.2	299.8	27.39	11.947		
4,900.0	4,794.8	4,884.6	4,824.8	18.4	15.1	-137.07	133.1	683.6	336.1	308.1	27.97	12.014		
5,000.0	4,891.8	4,984.2	4,922.9	18.9	15.5	-137.33	135.4	700.7	345.0	316.4	28.56	12.079		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4F-32H-O268 - 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)			
5,100.0	4,988.9	5,083.8	5,020.9	19.3	15.8	-137.58	137.7	717.8	353.9	324.8	29.15	12.142	
5,200.0	5,085.9	5,183.3	5,119.0	19.8	16.2	-137.82	139.9	735.0	362.8	333.1	29.73	12.203	
5,300.0	5,183.0	5,282.9	5,217.1	20.3	16.5	-138.04	142.2	752.1	371.8	341.4	30.32	12.262	
5,400.0	5,280.0	5,382.5	5,315.2	20.7	16.9	-138.26	144.5	769.2	380.7	349.8	30.90	12.318	
5,500.0	5,377.1	5,482.1	5,413.3	21.2	17.2	-138.46	146.8	786.3	389.6	358.1	31.49	12.373	
5,600.0	5,474.1	5,581.7	5,511.4	21.7	17.6	-138.66	149.1	803.4	398.5	366.5	32.07	12.426	
5,700.0	5,571.2	5,681.3	5,609.4	22.1	18.0	-138.85	151.4	820.5	407.5	374.8	32.66	12.478	
5,800.0	5,668.2	5,780.9	5,707.5	22.6	18.3	-139.03	153.6	837.6	416.4	383.2	33.24	12.528	
5,900.0	5,765.3	5,880.5	5,805.6	23.0	18.7	-139.20	155.9	854.7	425.4	391.6	33.83	12.576	
6,000.0	5,862.3	5,980.1	5,903.7	23.5	19.0	-139.37	158.2	871.9	434.3	399.9	34.41	12.623	
6,100.0	5,959.4	6,079.7	6,001.8	24.0	19.4	-139.53	160.5	889.0	443.3	408.3	34.99	12.668	
6,200.0	6,056.4	6,179.2	6,099.9	24.4	19.7	-139.68	162.8	906.1	452.3	416.7	35.58	12.712	
6,300.0	6,153.5	6,278.8	6,197.9	24.9	20.1	-139.82	165.1	923.2	461.2	425.1	36.16	12.755	
6,400.0	6,250.6	6,378.4	6,296.0	25.4	20.4	-139.97	167.3	940.3	470.2	433.4	36.74	12.796	
6,500.0	6,347.6	6,478.0	6,394.1	25.8	20.8	-140.10	169.6	957.4	479.2	441.8	37.33	12.837	
6,600.0	6,444.7	6,577.6	6,492.2	26.3	21.1	-140.23	171.9	974.5	488.1	450.2	37.91	12.876	
6,700.0	6,541.7	6,677.2	6,590.3	26.8	21.5	-140.36	174.2	991.6	497.1	458.6	38.49	12.914	
7,600.0	7,333.4	8,218.3	7,712.0	31.5	26.9	137.03	-461.2	1,187.3	499.9	473.9	25.92	19.285	
7,700.0	7,380.5	8,305.5	7,712.0	32.2	27.5	133.47	-548.4	1,187.3	473.3	446.7	26.66	17.752	
7,800.0	7,412.3	8,399.9	7,712.0	32.9	28.3	130.63	-642.8	1,187.3	457.6	428.3	29.29	15.623	
7,900.0	7,427.6	8,498.5	7,712.0	33.7	29.1	129.12	-741.4	1,187.3	450.6	417.5	33.06	13.631	
7,961.3	7,430.5	8,559.7	7,712.0	34.1	29.6	128.79	-802.6	1,187.3	449.3	414.4	34.89	12.877	
8,000.0	7,429.0	8,598.5	7,712.0	34.5	30.0	128.97	-841.4	1,187.3	450.0	414.0	35.97	12.510	
8,100.0	7,429.0	8,698.5	7,712.0	35.3	31.0	128.97	-941.4	1,187.3	450.0	411.9	38.08	11.816	
8,200.0	7,429.0	8,798.5	7,712.0	36.2	32.1	128.97	-1,041.4	1,187.3	450.0	409.7	40.27	11.175	
8,300.0	7,429.0	8,898.5	7,712.0	37.2	33.2	128.97	-1,141.4	1,187.3	450.0	407.4	42.52	10.583	
8,400.0	7,429.0	8,998.5	7,712.0	38.3	34.4	128.97	-1,241.4	1,187.3	450.0	405.1	44.82	10.039	
8,500.0	7,429.0	9,098.5	7,712.0	39.3	35.6	128.97	-1,341.4	1,187.3	450.0	402.8	47.17	9.539	
8,600.0	7,429.0	9,198.5	7,712.0	40.5	36.9	128.97	-1,441.4	1,187.3	450.0	400.4	49.56	9.079	
8,700.0	7,429.0	9,298.5	7,712.0	41.7	38.2	128.97	-1,541.4	1,187.3	450.0	398.0	51.99	8.655	
8,800.0	7,429.0	9,398.5	7,712.0	42.9	39.5	128.97	-1,641.4	1,187.3	450.0	395.5	54.44	8.265	
8,900.0	7,429.0	9,498.5	7,712.0	44.1	40.9	128.97	-1,741.4	1,187.3	450.0	393.0	56.92	7.905	
9,000.0	7,429.0	9,598.5	7,712.0	45.4	42.3	128.97	-1,841.4	1,187.3	450.0	390.5	59.43	7.572	
9,100.0	7,429.0	9,698.5	7,712.0	46.7	43.7	128.97	-1,941.4	1,187.3	450.0	388.0	61.95	7.263	
9,200.0	7,429.0	9,798.5	7,712.0	48.1	45.2	128.97	-2,041.4	1,187.3	450.0	385.5	64.49	6.977	
9,300.0	7,429.0	9,898.5	7,712.0	49.4	46.6	128.97	-2,141.4	1,187.3	450.0	382.9	67.05	6.711	
9,400.0	7,429.0	9,998.5	7,712.0	50.8	48.1	128.97	-2,241.4	1,187.3	450.0	380.3	69.62	6.463	
9,500.0	7,429.0	10,098.5	7,712.0	52.3	49.6	128.97	-2,341.4	1,187.3	450.0	377.8	72.20	6.232	
9,600.0	7,429.0	10,198.5	7,712.0	53.7	51.1	128.97	-2,441.4	1,187.3	450.0	375.2	74.79	6.016	
9,700.0	7,429.0	10,298.5	7,712.0	55.1	52.7	128.97	-2,541.4	1,187.3	450.0	372.6	77.40	5.814	
9,800.0	7,429.0	10,398.5	7,712.0	56.6	54.2	128.97	-2,641.4	1,187.3	450.0	369.9	80.01	5.624	
9,900.0	7,429.0	10,498.5	7,712.0	58.1	55.8	128.97	-2,741.4	1,187.3	450.0	367.3	82.63	5.445	
10,000.0	7,429.0	10,598.5	7,712.0	59.6	57.4	128.97	-2,841.4	1,187.3	450.0	364.7	85.26	5.278	
10,100.0	7,429.0	10,698.5	7,712.0	61.1	59.0	128.97	-2,941.4	1,187.3	450.0	362.1	87.89	5.119	
10,200.0	7,429.0	10,798.5	7,712.0	62.7	60.5	128.97	-3,041.4	1,187.3	450.0	359.4	90.53	4.970	
10,300.0	7,429.0	10,898.5	7,712.0	64.2	62.2	128.97	-3,141.4	1,187.3	450.0	356.8	93.18	4.829	
10,400.0	7,429.0	10,998.5	7,712.0	65.8	63.8	128.97	-3,241.4	1,187.3	450.0	354.1	95.83	4.695	
10,500.0	7,429.0	11,098.5	7,712.0	67.3	65.4	128.97	-3,341.4	1,187.3	450.0	351.5	98.49	4.569	
10,600.0	7,429.0	11,198.5	7,712.0	68.9	67.0	128.97	-3,441.4	1,187.3	450.0	348.8	101.15	4.448	
10,700.0	7,429.0	11,298.5	7,712.0	70.5	68.6	128.97	-3,541.4	1,187.3	450.0	346.1	103.81	4.334	
10,800.0	7,429.0	11,398.5	7,712.0	72.1	70.3	128.97	-3,641.4	1,187.3	450.0	343.5	106.48	4.226	
10,900.0	7,429.0	11,498.5	7,712.0	73.7	71.9	128.97	-3,741.4	1,187.3	450.0	340.8	109.15	4.122	

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4F-32H-O268 - 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)				
11,000.0	7,429.0	11,598.5	7,712.0	75.3	73.6	128.97	-3,841.4	1,187.3	450.0	338.1	111.83	4.024		
11,100.0	7,429.0	11,698.5	7,712.0	76.9	75.2	128.97	-3,941.4	1,187.3	450.0	335.4	114.51	3.929		
11,200.0	7,429.0	11,798.5	7,712.0	78.5	76.9	128.97	-4,041.4	1,187.3	450.0	332.8	117.19	3.840		
11,300.0	7,429.0	11,898.5	7,712.0	80.1	78.5	128.97	-4,141.4	1,187.3	450.0	330.1	119.87	3.754		
11,400.0	7,429.0	11,998.5	7,712.0	81.7	80.2	128.97	-4,241.4	1,187.3	450.0	327.4	122.56	3.671		
11,500.0	7,429.0	12,098.5	7,712.0	83.4	81.9	128.97	-4,341.4	1,187.3	450.0	324.7	125.25	3.593		
11,600.0	7,429.0	12,198.5	7,712.0	85.0	83.5	128.97	-4,441.4	1,187.3	450.0	322.0	127.94	3.517		
11,700.0	7,429.0	12,298.5	7,712.0	86.7	85.2	128.97	-4,541.4	1,187.3	450.0	319.3	130.63	3.445		
11,800.0	7,429.0	12,398.5	7,712.0	88.3	86.9	128.97	-4,641.4	1,187.3	450.0	316.6	133.32	3.375		
11,900.0	7,429.0	12,498.5	7,712.0	89.9	88.6	128.97	-4,741.4	1,187.3	450.0	313.9	136.02	3.308		
12,000.0	7,429.0	12,598.5	7,712.0	91.6	90.3	128.97	-4,841.4	1,187.3	450.0	311.2	138.72	3.244		
12,100.0	7,429.0	12,698.5	7,712.0	93.3	92.0	128.97	-4,941.4	1,187.3	450.0	308.5	141.42	3.182		
12,200.0	7,429.0	12,798.5	7,712.0	94.9	93.6	128.97	-5,041.4	1,187.3	450.0	305.8	144.12	3.122		
12,300.0	7,429.0	12,898.5	7,712.0	96.6	95.3	128.97	-5,141.4	1,187.3	450.0	303.1	146.82	3.065		
12,400.0	7,429.0	12,998.5	7,712.0	98.3	97.0	128.97	-5,241.4	1,187.3	450.0	300.4	149.52	3.009		
12,500.0	7,429.0	13,098.5	7,712.0	99.9	98.7	128.97	-5,341.4	1,187.3	450.0	297.7	152.23	2.956		
12,600.0	7,429.0	13,198.5	7,712.0	101.6	100.4	128.97	-5,441.4	1,187.3	450.0	295.0	154.93	2.904		
12,640.9	7,429.0	13,239.4	7,712.0	102.3	101.1	128.97	-5,482.3	1,187.3	450.0	293.9	156.04	2.884 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4H-32H-O268 - 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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	40.11	6.0	5.0	7.8						
100.0	100.0	100.0	100.0	0.1	0.1	40.11	6.0	5.0	7.8	7.5	0.30	26.323			
200.0	200.0	200.0	200.0	0.3	0.3	40.11	6.0	5.0	7.8	7.2	0.65	12.094			
300.0	300.0	300.0	300.0	0.5	0.5	40.11	6.0	5.0	7.8	6.8	0.99	7.851			
400.0	400.0	400.0	400.0	0.7	0.7	40.11	6.0	5.0	7.8	6.5	1.34	5.812			
500.0	500.0	500.0	500.0	0.8	0.8	40.11	6.0	5.0	7.8	6.1	1.69	4.613			
600.0	600.0	600.0	600.0	1.0	1.0	40.11	6.0	5.0	7.8	5.8	2.04	3.825			
700.0	700.0	700.0	700.0	1.2	1.2	40.11	6.0	5.0	7.8	5.4	2.39	3.266			
800.0	800.0	800.0	800.0	1.4	1.4	-54.50	6.0	5.0	7.5	4.8	2.74	2.755			
900.0	899.9	899.9	899.9	1.5	1.5	-81.73	6.0	5.0	6.2	3.1	3.09	2.008			
916.1	916.0	916.0	916.0	1.6	1.6	-89.71	6.0	5.1	6.1	3.0	3.15	1.951 CC, ES, SF			
1,000.0	999.7	999.8	999.8	1.7	1.7	-129.86	6.0	5.9	8.1	4.7	3.45	2.359			
1,100.0	1,099.1	1,099.6	1,099.6	2.0	1.9	-153.50	6.2	8.5	14.6	10.8	3.79	3.858			
1,200.0	1,198.2	1,199.5	1,199.3	2.2	2.1	-163.55	6.5	12.8	23.5	19.4	4.13	5.704			
1,300.0	1,297.0	1,299.4	1,299.1	2.5	2.3	-168.24	6.9	18.9	33.0	28.6	4.47	7.390			
1,400.0	1,395.5	1,399.6	1,399.0	2.8	2.5	-170.37	7.4	26.8	42.7	37.9	4.82	8.858			
1,500.0	1,493.6	1,499.9	1,498.8	3.1	2.7	-171.25	8.1	36.3	52.4	47.2	5.17	10.139			
1,600.0	1,591.5	1,600.4	1,598.6	3.5	2.9	-171.41	8.8	47.7	62.2	56.7	5.53	11.263			
1,700.0	1,689.0	1,701.0	1,698.4	3.8	3.1	-171.12	9.7	60.8	72.2	66.3	5.89	12.252			
1,800.0	1,786.1	1,801.7	1,798.0	4.3	3.4	-170.26	10.7	75.7	82.1	75.8	6.28	13.085			
1,900.0	1,883.2	1,902.7	1,897.6	4.7	3.7	-168.86	11.8	92.4	90.7	84.0	6.68	13.575			
2,000.0	1,980.2	2,004.0	1,997.2	5.1	4.0	-167.26	13.0	110.8	97.8	90.7	7.12	13.742			
2,100.0	2,077.3	2,105.4	2,096.5	5.6	4.4	-165.43	14.4	131.1	103.4	95.8	7.58	13.628			
2,200.0	2,174.3	2,206.9	2,195.6	6.0	4.8	-163.34	15.8	153.1	107.5	99.4	8.10	13.269			
2,300.0	2,271.4	2,308.4	2,294.3	6.5	5.2	-160.92	17.4	176.9	110.2	101.5	8.68	12.699			
2,400.0	2,368.4	2,409.9	2,392.5	6.9	5.6	-158.11	19.1	202.4	111.6	102.3	9.34	11.950			
2,500.0	2,465.5	2,511.3	2,490.1	7.4	6.1	-154.84	20.9	229.6	111.9	101.8	10.11	11.061			
2,600.0	2,562.5	2,612.6	2,587.2	7.8	6.6	-150.99	22.9	258.5	111.2	100.1	11.03	10.075			
2,700.0	2,659.6	2,713.0	2,682.9	8.3	7.1	-146.56	24.9	288.7	109.8	97.7	12.11	9.067			
2,800.0	2,756.6	2,812.6	2,777.8	8.7	7.7	-141.99	26.9	318.8	109.0	95.7	13.31	8.192			
2,866.0	2,820.7	2,878.3	2,840.5	9.0	8.0	-138.95	28.2	338.7	108.9	94.7	14.14	7.696			
2,900.0	2,853.7	2,912.2	2,872.7	9.2	8.2	-137.38	28.9	349.0	108.9	94.3	14.59	7.465			
3,000.0	2,950.7	3,011.8	2,967.7	9.6	8.7	-132.79	30.9	379.2	109.5	93.6	15.93	6.872			
3,100.0	3,047.8	3,111.4	3,062.6	10.1	9.3	-128.27	32.9	409.3	110.8	93.5	17.31	6.400			
3,200.0	3,144.8	3,211.0	3,157.5	10.5	9.8	-123.89	34.9	439.5	112.8	94.1	18.70	6.031			
3,300.0	3,241.9	3,310.6	3,252.4	11.0	10.4	-119.68	36.9	469.7	115.4	95.3	20.07	5.749			
3,400.0	3,339.0	3,410.2	3,347.3	11.5	10.9	-115.67	38.9	499.8	118.6	97.2	21.41	5.539			
3,500.0	3,436.0	3,509.9	3,442.2	11.9	11.5	-111.89	41.0	530.0	122.3	99.6	22.70	5.389			
3,600.0	3,533.1	3,609.5	3,537.1	12.4	12.1	-108.35	43.0	560.1	126.6	102.6	23.95	5.286			
3,700.0	3,630.1	3,709.1	3,632.0	12.8	12.6	-105.05	45.0	590.3	131.3	106.2	25.14	5.223			
3,800.0	3,727.2	3,808.7	3,727.0	13.3	13.2	-101.99	47.0	620.5	136.4	110.1	26.28	5.191			
3,900.0	3,824.2	3,908.3	3,821.9	13.8	13.7	-99.16	49.0	650.6	141.9	114.5	27.37	5.185			
4,000.0	3,921.3	4,007.9	3,916.8	14.2	14.3	-96.54	51.0	680.8	147.7	119.3	28.41	5.198			
4,100.0	4,018.3	4,107.5	4,011.7	14.7	14.9	-94.12	53.0	711.0	153.8	124.4	29.42	5.228			
4,200.0	4,115.4	4,207.1	4,106.6	15.2	15.4	-91.89	55.0	741.1	160.1	129.7	30.38	5.270			
4,300.0	4,212.4	4,306.7	4,201.5	15.6	16.0	-89.83	57.0	771.3	166.7	135.4	31.32	5.322			
4,400.0	4,309.5	4,406.4	4,296.4	16.1	16.6	-87.93	59.0	801.5	173.4	141.2	32.23	5.382			
4,500.0	4,406.5	4,506.0	4,391.4	16.5	17.1	-86.17	61.1	831.6	180.4	147.3	33.11	5.448			
4,600.0	4,503.6	4,605.6	4,486.3	17.0	17.7	-84.55	63.1	861.8	187.5	153.5	33.97	5.519			
4,700.0	4,600.6	4,705.2	4,581.2	17.5	18.3	-83.04	65.1	892.0	194.7	159.9	34.82	5.592			
4,800.0	4,697.7	4,804.8	4,676.1	17.9	18.9	-81.64	67.1	922.1	202.1	166.4	35.65	5.669			
4,900.0	4,794.8	4,904.4	4,771.0	18.4	19.4	-80.35	69.1	952.3	209.5	173.1	36.46	5.747			

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4H-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,891.8	5,004.0	4,865.9	18.9	20.0	-79.14	71.1	982.4	217.1	179.8	37.27	5.826		
5,100.0	4,988.9	5,103.6	4,960.8	19.3	20.6	-78.01	73.1	1,012.6	224.8	186.7	38.06	5.905		
5,200.0	5,085.9	5,203.3	5,055.8	19.8	21.1	-76.96	75.1	1,042.8	232.5	193.7	38.85	5.985		
5,300.0	5,183.0	5,302.9	5,150.7	20.3	21.7	-75.97	77.1	1,072.9	240.3	200.7	39.63	6.064		
5,400.0	5,280.0	5,402.5	5,245.6	20.7	22.3	-75.05	79.1	1,103.1	248.2	207.8	40.40	6.143		
5,500.0	5,377.1	5,502.1	5,340.5	21.2	22.9	-74.18	81.2	1,133.3	256.1	215.0	41.17	6.222		
5,600.0	5,474.1	5,601.7	5,435.4	21.7	23.4	-73.37	83.2	1,163.4	264.1	222.2	41.93	6.299		
5,700.0	5,571.2	5,701.3	5,530.3	22.1	24.0	-72.60	85.2	1,193.6	272.2	229.5	42.69	6.375		
5,800.0	5,668.2	5,800.9	5,625.2	22.6	24.6	-71.88	87.2	1,223.8	280.3	236.8	43.45	6.451		
5,900.0	5,765.3	5,900.5	5,720.1	23.0	25.2	-71.20	89.2	1,253.9	288.4	244.2	44.20	6.525		
6,000.0	5,862.3	6,000.1	5,815.1	23.5	25.7	-70.56	91.2	1,284.1	296.6	251.6	44.95	6.598		
6,100.0	5,959.4	6,099.8	5,910.0	24.0	26.3	-69.95	93.2	1,314.3	304.8	259.1	45.70	6.669		
6,200.0	6,056.4	6,199.4	6,004.9	24.4	26.9	-69.37	95.2	1,344.4	313.0	266.6	46.45	6.739		
6,300.0	6,153.5	6,299.0	6,099.8	24.9	27.5	-68.82	97.2	1,374.6	321.3	274.1	47.19	6.808		
6,400.0	6,250.6	6,398.6	6,194.7	25.4	28.0	-68.30	99.2	1,404.7	329.6	281.6	47.94	6.875		
6,500.0	6,347.6	6,498.2	6,289.6	25.8	28.6	-67.81	101.3	1,434.9	337.9	289.2	48.68	6.941		
6,600.0	6,444.7	6,597.8	6,384.5	26.3	29.2	-67.34	103.3	1,465.1	346.2	296.8	49.42	7.006		
6,700.0	6,541.7	6,697.4	6,479.5	26.8	29.8	-66.89	105.3	1,495.2	354.6	304.5	50.16	7.070		
6,800.0	6,638.8	6,797.0	6,574.4	27.2	30.3	-66.46	107.3	1,525.4	363.0	312.1	50.90	7.132		
6,900.0	6,735.8	6,896.7	6,669.3	27.7	30.9	-66.05	109.3	1,555.6	371.4	319.8	51.64	7.192		
7,000.0	6,832.9	6,996.3	6,764.2	28.2	31.5	-65.66	111.3	1,585.7	379.8	327.5	52.38	7.252		
7,100.0	6,929.9	7,095.8	6,859.0	28.6	32.1	-79.36	113.3	1,615.9	389.3	336.4	52.89	7.360		
7,200.0	7,025.1	7,193.2	6,951.9	29.1	32.6	-104.41	115.3	1,645.4	410.4	358.1	52.34	7.841		
7,300.0	7,115.7	7,285.6	7,039.9	29.7	33.2	-116.84	117.1	1,673.3	445.7	395.1	50.64	8.801		
7,400.0	7,198.9	7,370.0	7,120.3	30.2	33.6	-123.13	118.8	1,698.9	494.8	447.1	47.67	10.380		
7,700.0	7,380.5	8,413.1	7,712.0	32.2	38.6	-128.79	-548.4	1,886.9	490.6	448.1	42.47	11.552		
7,800.0	7,412.3	8,507.5	7,712.0	32.9	39.1	-129.02	-642.8	1,886.9	463.8	425.9	37.90	12.239		
7,900.0	7,427.6	8,606.1	7,712.0	33.7	39.7	-128.98	-741.4	1,886.9	451.1	417.5	33.60	13.426		
7,961.4	7,430.5	8,667.4	7,712.0	34.1	40.1	-128.84	-802.7	1,886.9	448.7	415.2	33.46	13.412		
8,000.0	7,429.0	8,706.0	7,712.0	34.5	40.3	-128.97	-841.4	1,886.9	450.0	416.7	33.28	13.520		
8,100.0	7,429.0	8,806.0	7,712.0	35.3	41.1	-128.97	-941.4	1,886.9	450.0	414.4	35.54	12.660		
8,200.0	7,429.0	8,906.0	7,712.0	36.2	41.9	-128.97	-1,041.4	1,886.9	450.0	412.1	37.86	11.883		
8,300.0	7,429.0	9,006.0	7,712.0	37.2	42.7	-128.97	-1,141.4	1,886.9	450.0	409.7	40.24	11.181		
8,400.0	7,429.0	9,106.0	7,712.0	38.3	43.6	-128.97	-1,241.4	1,886.9	450.0	407.3	42.66	10.547		
8,500.0	7,429.0	9,206.0	7,712.0	39.3	44.5	-128.97	-1,341.4	1,886.9	450.0	404.8	45.12	9.973		
8,600.0	7,429.0	9,306.0	7,712.0	40.5	45.5	-128.97	-1,441.4	1,886.9	450.0	402.3	47.60	9.452		
8,700.0	7,429.0	9,406.0	7,712.0	41.7	46.6	-128.97	-1,541.4	1,886.9	450.0	399.8	50.12	8.978		
8,800.0	7,429.0	9,506.0	7,712.0	42.9	47.7	-128.97	-1,641.4	1,886.9	450.0	397.3	52.65	8.546		
8,900.0	7,429.0	9,606.0	7,712.0	44.1	48.8	-128.97	-1,741.4	1,886.9	450.0	394.7	55.21	8.150		
9,000.0	7,429.0	9,706.0	7,712.0	45.4	49.9	-128.97	-1,841.4	1,886.9	450.0	392.2	57.78	7.787		
9,100.0	7,429.0	9,806.0	7,712.0	46.7	51.1	-128.97	-1,941.4	1,886.9	450.0	389.6	60.37	7.454		
9,200.0	7,429.0	9,906.0	7,712.0	48.1	52.4	-128.97	-2,041.4	1,886.9	450.0	387.0	62.96	7.146		
9,300.0	7,429.0	10,006.0	7,712.0	49.4	53.6	-128.97	-2,141.4	1,886.9	450.0	384.4	65.58	6.862		
9,400.0	7,429.0	10,106.0	7,712.0	50.8	54.9	-128.97	-2,241.4	1,886.9	450.0	381.8	68.20	6.598		
9,500.0	7,429.0	10,206.0	7,712.0	52.3	56.2	-128.97	-2,341.4	1,886.9	450.0	379.1	70.83	6.353		
9,600.0	7,429.0	10,306.0	7,712.0	53.7	57.6	-128.97	-2,441.4	1,886.9	450.0	376.5	73.46	6.125		
9,700.0	7,429.0	10,406.0	7,712.0	55.1	58.9	-128.97	-2,541.4	1,886.9	450.0	373.8	76.11	5.912		
9,800.0	7,429.0	10,506.0	7,712.0	56.6	60.3	-128.97	-2,641.4	1,886.9	450.0	371.2	78.76	5.713		
9,900.0	7,429.0	10,606.0	7,712.0	58.1	61.7	-128.97	-2,741.4	1,886.9	450.0	368.5	81.41	5.527		
10,000.0	7,429.0	10,706.0	7,712.0	59.6	63.1	-128.97	-2,841.4	1,886.9	450.0	365.9	84.08	5.352		
10,100.0	7,429.0	10,806.0	7,712.0	61.1	64.6	-128.97	-2,941.4	1,886.9	450.0	363.2	86.74	5.187		
10,200.0	7,429.0	10,906.0	7,712.0	62.7	66.0	-128.97	-3,041.4	1,886.9	450.0	360.5	89.41	5.032		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4H-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,300.0	7,429.0	11,006.0	7,712.0	64.2	67.5	-128.97	-3,141.4	1,886.9	450.0	357.9	92.09	4.886		
10,400.0	7,429.0	11,106.0	7,712.0	65.8	68.9	-128.97	-3,241.4	1,886.9	450.0	355.2	94.77	4.748		
10,500.0	7,429.0	11,206.0	7,712.0	67.3	70.4	-128.97	-3,341.4	1,886.9	450.0	352.5	97.45	4.617		
10,600.0	7,429.0	11,306.0	7,712.0	68.9	71.9	-128.97	-3,441.4	1,886.9	450.0	349.8	100.14	4.493		
10,700.0	7,429.0	11,406.0	7,712.0	70.5	73.5	-128.97	-3,541.4	1,886.9	450.0	347.1	102.82	4.376		
10,800.0	7,429.0	11,506.0	7,712.0	72.1	75.0	-128.97	-3,641.4	1,886.9	450.0	344.4	105.51	4.264		
10,900.0	7,429.0	11,606.0	7,712.0	73.7	76.5	-128.97	-3,741.4	1,886.9	450.0	341.7	108.21	4.158		
11,000.0	7,429.0	11,706.0	7,712.0	75.3	78.1	-128.97	-3,841.4	1,886.9	450.0	339.0	110.90	4.057		
11,100.0	7,429.0	11,806.0	7,712.0	76.9	79.6	-128.97	-3,941.4	1,886.9	450.0	336.4	113.60	3.961		
11,200.0	7,429.0	11,906.0	7,712.0	78.5	81.2	-128.97	-4,041.4	1,886.9	450.0	333.7	116.30	3.869		
11,300.0	7,429.0	12,006.0	7,712.0	80.1	82.8	-128.97	-4,141.4	1,886.9	450.0	331.0	119.00	3.781		
11,400.0	7,429.0	12,106.0	7,712.0	81.7	84.3	-128.97	-4,241.4	1,886.9	450.0	328.3	121.70	3.697		
11,500.0	7,429.0	12,206.0	7,712.0	83.4	85.9	-128.97	-4,341.4	1,886.9	450.0	325.5	124.40	3.617		
11,600.0	7,429.0	12,306.0	7,712.0	85.0	87.5	-128.97	-4,441.4	1,886.9	450.0	322.8	127.11	3.540		
11,700.0	7,429.0	12,406.0	7,712.0	86.7	89.1	-128.97	-4,541.4	1,886.9	450.0	320.1	129.82	3.466		
11,800.0	7,429.0	12,506.0	7,712.0	88.3	90.7	-128.97	-4,641.4	1,886.9	450.0	317.4	132.53	3.395		
11,900.0	7,429.0	12,606.0	7,712.0	89.9	92.3	-128.97	-4,741.4	1,886.9	450.0	314.7	135.23	3.327		
12,000.0	7,429.0	12,706.0	7,712.0	91.6	93.9	-128.97	-4,841.4	1,886.9	450.0	312.0	137.95	3.262		
12,100.0	7,429.0	12,806.0	7,712.0	93.3	95.6	-128.97	-4,941.4	1,886.9	450.0	309.3	140.66	3.199		
12,200.0	7,429.0	12,906.0	7,712.0	94.9	97.2	-128.97	-5,041.4	1,886.9	450.0	306.6	143.37	3.138		
12,300.0	7,429.0	13,006.0	7,712.0	96.6	98.8	-128.97	-5,141.4	1,886.9	450.0	303.9	146.08	3.080		
12,400.0	7,429.0	13,106.0	7,712.0	98.3	100.5	-128.97	-5,241.4	1,886.9	450.0	301.2	148.80	3.024		
12,500.0	7,429.0	13,206.0	7,712.0	99.9	102.1	-128.97	-5,341.4	1,886.9	450.0	298.4	151.51	2.970		
12,600.0	7,429.0	13,306.0	7,712.0	101.6	103.7	-128.97	-5,441.4	1,886.9	450.0	295.7	154.23	2.917		
12,621.6	7,429.0	13,327.7	7,712.0	102.0	104.1	-128.97	-5,463.0	1,886.9	450.0	295.1	154.82	2.906		
12,640.9	7,429.0	13,346.9	7,712.0	102.3	104.4	-128.97	-5,482.3	1,886.9	450.0	294.6	155.34	2.897		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4I-32H-O268 - 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	90.31	-0.1	20.0	20.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.1	20.0	20.0	19.7	0.30	67.745		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.1	20.0	20.0	19.4	0.64	31.055		
300.0	300.0	299.2	299.2	0.5	0.5	92.11	-0.7	19.4	19.4	18.4	0.99	19.524		
400.0	400.0	399.4	399.4	0.7	0.7	98.30	-2.6	17.5	17.7	16.4	1.35	13.182		
500.0	500.0	499.5	499.3	0.8	0.9	111.29	-5.6	14.5	15.5	13.8	1.70	9.156		
600.0	600.0	599.3	599.0	1.0	1.1	134.37	-9.9	10.2	14.2	12.2	2.04	6.963		
602.4	602.4	601.7	601.4	1.0	1.1	135.03	-10.1	10.0	14.2	12.2	2.05	6.934 CC, ES		
700.0	700.0	699.0	698.3	1.2	1.3	163.29	-15.5	4.6	16.1	13.7	2.41	6.710 SF		
800.0	800.0	798.4	797.4	1.4	1.5	93.99	-22.0	-1.9	22.1	19.4	2.79	7.933		
900.0	899.9	897.7	896.2	1.5	1.7	111.36	-28.6	-8.5	31.2	28.1	3.11	10.020		
1,000.0	999.7	996.5	994.6	1.7	2.0	124.29	-35.2	-15.1	43.7	40.2	3.45	12.677		
1,100.0	1,099.1	1,094.9	1,092.5	2.0	2.2	133.69	-41.8	-21.7	59.8	56.0	3.79	15.745		
1,200.0	1,198.2	1,192.6	1,189.8	2.2	2.4	139.64	-48.3	-28.3	79.2	75.0	4.16	19.050		
1,300.0	1,297.0	1,290.0	1,286.7	2.5	2.6	143.02	-54.8	-34.8	100.6	96.1	4.53	22.210		
1,400.0	1,395.5	1,387.0	1,383.3	2.8	2.9	145.50	-61.3	-41.3	123.7	118.8	4.91	25.196		
1,500.0	1,493.6	1,483.6	1,479.5	3.1	3.1	147.43	-67.7	-47.7	148.4	143.2	5.30	28.033		
1,600.0	1,591.5	1,579.8	1,575.3	3.5	3.3	149.01	-74.2	-54.2	174.7	169.0	5.68	30.746		
1,700.0	1,689.0	1,675.6	1,670.6	3.8	3.6	150.36	-80.6	-60.6	202.6	196.5	6.07	33.357		
1,800.0	1,786.1	1,771.0	1,765.5	4.3	3.8	151.84	-86.9	-66.9	231.8	225.4	6.47	35.853		
1,900.0	1,883.2	1,866.2	1,860.4	4.7	4.0	153.40	-93.3	-73.3	261.5	254.7	6.86	38.098		
2,000.0	1,980.2	1,961.5	1,955.2	5.1	4.2	154.65	-99.7	-79.7	291.4	284.1	7.26	40.121		
2,100.0	2,077.3	2,056.8	2,050.1	5.6	4.5	155.66	-106.0	-86.0	321.3	313.6	7.66	41.949		
2,200.0	2,174.3	2,152.0	2,144.9	6.0	4.7	156.51	-112.4	-92.4	351.3	343.3	8.06	43.610		
2,300.0	2,271.4	2,247.3	2,239.8	6.5	4.9	157.22	-118.8	-98.8	381.4	372.9	8.45	45.124		
2,400.0	2,368.4	2,342.6	2,334.6	6.9	5.2	157.82	-125.1	-105.2	411.5	402.7	8.85	46.509		
2,500.0	2,465.5	2,437.9	2,429.5	7.4	5.4	158.35	-131.5	-111.5	441.7	432.4	9.24	47.780		
2,600.0	2,562.5	2,533.1	2,524.3	7.8	5.6	158.80	-137.8	-117.9	471.8	462.2	9.64	48.952		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4J-32H-O268 - 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	76.81	5.9	25.0	25.7					
100.0	100.0	99.0	99.0	0.1	0.1	76.81	5.9	25.0	25.7	25.4	0.30	87.087		
200.0	200.0	199.0	199.0	0.3	0.3	76.81	5.9	25.0	25.7	25.1	0.64	39.921		
300.0	300.0	299.0	299.0	0.5	0.5	76.81	5.9	25.0	25.7	24.7	0.99	25.889		
400.0	400.0	399.2	399.2	0.7	0.7	78.60	5.0	24.9	25.4	24.0	1.34	18.911		
500.0	500.0	499.3	499.2	0.8	0.9	84.28	2.5	24.4	24.6	22.9	1.69	14.521		
600.0	600.0	599.3	599.1	1.0	1.0	94.43	-1.8	23.7	23.8	21.7	2.04	11.654		
639.4	639.4	638.6	638.4	1.1	1.1	99.70	-4.0	23.3	23.7	21.5	2.18	10.874 CC, ES		
700.0	700.0	699.1	698.7	1.2	1.2	109.03	-7.8	22.7	24.0	21.6	2.39	10.044		
800.0	800.0	798.6	798.0	1.4	1.4	34.47	-15.5	21.4	26.1	23.3	2.80	9.321		
900.0	899.9	898.0	897.0	1.5	1.7	54.63	-24.4	19.9	29.1	26.0	3.14	9.263 SF		
1,000.0	999.7	997.3	995.8	1.7	1.9	74.98	-33.4	18.3	34.0	30.5	3.48	9.775		
1,100.0	1,099.1	1,096.2	1,094.3	2.0	2.1	93.57	-42.4	16.8	42.1	38.2	3.84	10.957		
1,200.0	1,198.2	1,194.6	1,192.3	2.2	2.3	107.73	-51.3	15.3	54.0	49.8	4.24	12.727		
1,300.0	1,297.0	1,292.8	1,290.1	2.5	2.6	116.96	-60.2	13.7	68.9	64.2	4.68	14.723		
1,400.0	1,395.5	1,390.8	1,387.7	2.8	2.8	123.55	-69.1	12.2	85.9	80.8	5.13	16.766		
1,500.0	1,493.6	1,488.5	1,484.9	3.1	3.0	128.50	-77.9	10.7	104.9	99.3	5.58	18.794		
1,600.0	1,591.5	1,585.8	1,581.9	3.5	3.2	132.38	-86.7	9.2	125.6	119.5	6.04	20.791		
1,700.0	1,689.0	1,682.8	1,678.5	3.8	3.5	135.54	-95.5	7.7	147.9	141.4	6.50	22.753		
1,800.0	1,786.1	1,779.5	1,774.7	4.3	3.7	138.48	-104.3	6.2	171.7	164.7	6.96	24.677		
1,900.0	1,883.2	1,876.1	1,870.9	4.7	3.9	141.14	-113.0	4.7	196.2	188.7	7.42	26.451		
2,000.0	1,980.2	1,972.7	1,967.1	5.1	4.1	143.20	-121.8	3.2	220.9	213.1	7.87	28.069		
2,100.0	2,077.3	2,069.3	2,063.3	5.6	4.4	144.86	-130.5	1.7	245.9	237.6	8.32	29.541		
2,200.0	2,174.3	2,165.9	2,159.5	6.0	4.6	146.20	-139.3	0.2	271.1	262.3	8.78	30.884		
2,300.0	2,271.4	2,262.5	2,255.7	6.5	4.8	147.32	-148.0	-1.3	296.3	287.1	9.23	32.111		
2,400.0	2,368.4	2,359.2	2,351.9	6.9	5.0	148.26	-156.8	-2.8	321.7	312.0	9.68	33.235		
2,500.0	2,465.5	2,455.8	2,448.1	7.4	5.3	149.07	-165.5	-4.3	347.1	336.9	10.13	34.267		
2,600.0	2,562.5	2,552.4	2,544.3	7.8	5.5	149.76	-174.2	-5.8	372.6	362.0	10.58	35.217		
2,700.0	2,659.6	2,649.0	2,640.5	8.3	5.7	150.37	-183.0	-7.3	398.1	387.0	11.03	36.095		
2,800.0	2,756.6	2,745.6	2,736.7	8.7	6.0	150.90	-191.7	-8.7	423.6	412.1	11.48	36.907		
2,900.0	2,853.7	2,842.2	2,832.9	9.2	6.2	151.38	-200.5	-10.2	449.2	437.3	11.93	37.662		
3,000.0	2,950.7	2,938.8	2,929.1	9.6	6.4	151.80	-209.2	-11.7	474.8	462.4	12.38	38.363		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4K-32H-O268 - 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	90.31	-0.2	30.0	30.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.31	-0.2	30.0	30.0	29.7	0.30	101.618		
200.0	200.0	199.0	199.0	0.3	0.3	90.31	-0.2	30.0	30.0	29.4	0.64	46.582		
300.0	300.0	299.0	299.0	0.5	0.5	90.31	-0.2	30.0	30.0	29.0	0.99	30.209		
400.0	400.0	399.0	399.0	0.7	0.7	90.31	-0.2	30.0	30.0	28.7	1.34	22.352 CC, ES		
500.0	500.0	498.7	498.7	0.8	0.8	91.73	-0.9	30.4	30.4	28.7	1.69	17.983		
600.0	600.0	598.4	598.4	1.0	1.0	95.80	-3.2	31.6	31.8	29.7	2.04	15.562		
700.0	700.0	698.0	697.9	1.2	1.2	101.84	-7.0	33.6	34.3	31.9	2.39	14.344		
800.0	800.0	797.4	797.1	1.4	1.4	16.99	-12.4	36.4	38.0	35.3	2.75	13.824		
900.0	899.9	896.6	896.0	1.5	1.6	25.90	-19.2	39.9	40.9	37.8	3.10	13.163		
1,000.0	999.7	995.8	994.7	1.7	1.8	37.02	-27.6	44.2	43.2	39.8	3.45	12.515		
1,100.0	1,099.1	1,095.3	1,093.7	2.0	2.0	50.03	-36.3	48.8	45.2	41.4	3.82	11.839		
1,200.0	1,198.2	1,194.5	1,192.5	2.2	2.3	63.87	-45.1	53.3	47.7	43.5	4.23	11.285		
1,300.0	1,297.0	1,293.6	1,291.1	2.5	2.5	76.76	-53.8	57.9	52.3	47.5	4.72	11.084 SF		
1,400.0	1,395.5	1,392.5	1,389.5	2.8	2.7	88.61	-62.5	62.4	59.1	53.9	5.26	11.237		
1,500.0	1,493.6	1,491.3	1,487.8	3.1	3.0	98.96	-71.2	66.9	68.4	62.5	5.84	11.713		
1,600.0	1,591.5	1,589.8	1,585.8	3.5	3.2	107.72	-79.9	71.5	79.9	73.5	6.41	12.462		
1,700.0	1,689.0	1,688.1	1,683.6	3.8	3.4	115.03	-88.6	76.0	93.6	86.7	6.97	13.430		
1,800.0	1,786.1	1,786.1	1,781.2	4.3	3.7	121.36	-97.2	80.4	109.3	101.8	7.50	14.572		
1,900.0	1,883.2	1,884.1	1,878.7	4.7	3.9	126.54	-105.9	84.9	126.3	118.3	8.01	15.765		
2,000.0	1,980.2	1,982.1	1,976.2	5.1	4.2	130.47	-114.5	89.4	144.0	135.5	8.50	16.933		
2,100.0	2,077.3	2,080.1	2,073.7	5.6	4.4	133.53	-123.1	93.9	162.3	153.3	8.99	18.046		
2,200.0	2,174.3	2,178.1	2,171.2	6.0	4.6	135.98	-131.8	98.4	180.9	171.4	9.47	19.090		
2,300.0	2,271.4	2,276.1	2,268.7	6.5	4.9	137.97	-140.4	102.9	199.7	189.8	9.95	20.065		
2,400.0	2,368.4	2,374.1	2,366.2	6.9	5.1	139.61	-149.0	107.4	218.8	208.3	10.43	20.971		
2,500.0	2,465.5	2,472.1	2,463.7	7.4	5.3	140.99	-157.7	111.9	238.0	227.1	10.91	21.812		
2,600.0	2,562.5	2,570.1	2,561.2	7.8	5.6	142.17	-166.3	116.3	257.3	245.9	11.39	22.594		
2,700.0	2,659.6	2,668.0	2,658.7	8.3	5.8	143.18	-174.9	120.8	276.7	264.8	11.87	23.321		
2,800.0	2,756.6	2,766.0	2,756.2	8.7	6.1	144.06	-183.6	125.3	296.2	283.8	12.34	23.997		
2,900.0	2,853.7	2,864.0	2,853.7	9.2	6.3	144.83	-192.2	129.8	315.7	302.9	12.82	24.628		
3,000.0	2,950.7	2,962.0	2,951.2	9.6	6.5	145.51	-200.9	134.3	335.3	322.0	13.30	25.216		
3,100.0	3,047.8	3,060.0	3,048.7	10.1	6.8	146.11	-209.5	138.8	354.9	341.2	13.78	25.767		
3,200.0	3,144.8	3,158.0	3,146.2	10.5	7.0	146.65	-218.1	143.3	374.6	360.4	14.25	26.283		
3,300.0	3,241.9	3,256.0	3,243.7	11.0	7.3	147.14	-226.8	147.8	394.3	379.6	14.73	26.767		
3,400.0	3,339.0	3,354.0	3,341.2	11.5	7.5	147.58	-235.4	152.3	414.0	398.8	15.21	27.222		
3,500.0	3,436.0	3,452.0	3,438.8	11.9	7.7	147.98	-244.0	156.7	433.7	418.1	15.69	27.650		
3,600.0	3,533.1	3,550.0	3,536.3	12.4	8.0	148.35	-252.7	161.2	453.5	437.3	16.17	28.054		
3,700.0	3,630.1	3,647.9	3,633.8	12.8	8.2	148.68	-261.3	165.7	473.3	456.6	16.64	28.436		
3,800.0	3,727.2	3,745.9	3,731.3	13.3	8.5	148.99	-269.9	170.2	493.1	475.9	17.12	28.797		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4L-32H-O268 - 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	80.58	5.8	35.0	35.5					
100.0	100.0	99.0	99.0	0.1	0.1	80.58	5.8	35.0	35.5	0.30	120.284			
200.0	200.0	199.0	199.0	0.3	0.3	80.58	5.8	35.0	35.5	0.64	55.138			
300.0	300.0	299.0	299.0	0.5	0.5	80.58	5.8	35.0	35.5	0.99	35.758			
400.0	400.0	399.0	399.0	0.7	0.7	80.58	5.8	35.0	35.5	1.34	26.458			
500.0	500.0	499.0	499.0	0.8	0.8	80.58	5.8	35.0	35.5	1.69	20.997 CC			
600.0	600.0	598.7	598.7	1.0	1.0	81.74	5.2	35.6	36.0	2.04	17.629			
700.0	700.0	698.3	698.2	1.2	1.2	85.08	3.2	37.3	37.4	2.39	15.659			
800.0	800.0	797.8	797.7	1.4	1.4	-1.94	-0.1	40.1	39.7	2.74	14.459			
900.0	899.9	897.2	896.9	1.5	1.6	4.39	-4.6	44.0	40.4	3.10	13.043			
1,000.0	999.7	996.5	995.9	1.7	1.8	12.82	-10.5	49.0	39.6	3.45	11.481			
1,100.0	1,099.1	1,095.6	1,094.5	2.0	2.0	24.42	-17.6	55.2	38.0	3.80	10.013			
1,185.1	1,183.5	1,179.7	1,178.1	2.2	2.2	36.29	-24.7	61.3	37.3	4.11	9.074			
1,200.0	1,198.2	1,194.4	1,192.7	2.2	2.2	38.89	-26.1	62.4	37.2	4.17	8.923 ES			
1,300.0	1,297.0	1,293.6	1,291.2	2.5	2.5	53.97	-35.4	70.5	39.0	4.63	8.420			
1,400.0	1,395.5	1,392.9	1,389.6	2.8	2.7	68.72	-44.9	78.6	42.7	5.19	8.224 SF			
1,500.0	1,493.6	1,492.0	1,488.0	3.1	3.0	82.20	-54.3	86.7	48.6	5.84	8.322			
1,600.0	1,591.5	1,591.0	1,586.2	3.5	3.2	93.88	-63.7	94.7	56.7	6.51	8.709			
1,700.0	1,689.0	1,689.9	1,684.3	3.8	3.5	103.68	-73.1	102.8	66.9	7.16	9.347			
1,800.0	1,786.1	1,788.5	1,782.1	4.3	3.8	112.01	-82.4	110.8	79.2	7.77	10.195			
1,900.0	1,883.2	1,887.1	1,879.9	4.7	4.0	118.51	-91.8	118.9	92.9	8.33	11.146			
2,000.0	1,980.2	1,985.6	1,977.7	5.1	4.3	123.30	-101.1	126.9	107.5	8.88	12.104			
2,100.0	2,077.3	2,084.2	2,075.5	5.6	4.6	126.94	-110.5	134.9	122.6	9.41	13.027			
2,200.0	2,174.3	2,182.8	2,173.3	6.0	4.8	129.78	-119.9	143.0	138.1	9.94	13.896			
2,300.0	2,271.4	2,281.4	2,271.2	6.5	5.1	132.04	-129.2	151.0	153.9	10.47	14.707			
2,400.0	2,368.4	2,380.0	2,369.0	6.9	5.4	133.87	-138.6	159.1	169.9	10.99	15.458			
2,500.0	2,465.5	2,478.6	2,466.8	7.4	5.6	135.40	-147.9	167.1	186.0	11.51	16.154			
2,600.0	2,562.5	2,577.1	2,564.6	7.8	5.9	136.67	-157.3	175.1	202.2	12.04	16.797			
2,700.0	2,659.6	2,675.7	2,662.4	8.3	6.2	137.76	-166.6	183.2	218.5	12.56	17.393			
2,800.0	2,756.6	2,774.3	2,760.2	8.7	6.5	138.70	-176.0	191.2	234.9	13.09	17.945			
2,900.0	2,853.7	2,872.9	2,858.0	9.2	6.7	139.51	-185.4	199.3	251.3	13.62	18.458			
3,000.0	2,950.7	2,971.5	2,955.8	9.6	7.0	140.23	-194.7	207.3	267.8	14.14	18.935			
3,100.0	3,047.8	3,070.1	3,053.6	10.1	7.3	140.86	-204.1	215.3	284.3	14.67	19.379			
3,200.0	3,144.8	3,168.6	3,151.4	10.5	7.5	141.43	-213.4	223.4	300.8	15.20	19.794			
3,300.0	3,241.9	3,267.2	3,249.2	11.0	7.8	141.93	-222.8	231.4	317.4	15.73	20.182			
3,400.0	3,339.0	3,365.8	3,347.0	11.5	8.1	142.38	-232.2	239.4	334.0	16.25	20.546			
3,500.0	3,436.0	3,464.4	3,444.8	11.9	8.4	142.79	-241.5	247.5	350.6	16.78	20.887			
3,600.0	3,533.1	3,563.0	3,542.7	12.4	8.6	143.17	-250.9	255.5	367.2	17.31	21.208			
3,700.0	3,630.1	3,661.5	3,640.5	12.8	8.9	143.51	-260.2	263.6	383.8	17.84	21.511			
3,800.0	3,727.2	3,760.1	3,738.3	13.3	9.2	143.82	-269.6	271.6	400.5	18.37	21.796			
3,900.0	3,824.2	3,858.7	3,836.1	13.8	9.5	144.11	-278.9	279.6	417.1	18.90	22.065			
4,000.0	3,921.3	3,957.3	3,933.9	14.2	9.7	144.38	-288.3	287.7	433.8	19.43	22.320			
4,100.0	4,018.3	4,055.9	4,031.7	14.7	10.0	144.62	-297.7	295.7	450.4	19.96	22.562			
4,200.0	4,115.4	4,154.5	4,129.5	15.2	10.3	144.85	-307.0	303.8	467.1	20.50	22.791			
4,300.0	4,212.4	4,253.0	4,227.3	15.6	10.6	145.07	-316.4	311.8	483.8	21.03	23.008			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4M-32H-O268 - 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	86.30	3.7	56.7	56.9					
100.0	100.0	99.0	99.0	0.1	0.1	86.30	3.7	56.7	56.8	56.5	0.30	192.540		
200.0	200.0	199.0	199.0	0.3	0.3	86.30	3.7	56.7	56.8	56.2	0.64	88.261		
300.0	300.0	299.0	299.0	0.5	0.5	86.30	3.7	56.7	56.8	55.8	0.99	57.238		
400.0	400.0	399.0	399.0	0.7	0.7	86.30	3.7	56.7	56.8	55.5	1.34	42.351		
500.0	500.0	499.0	499.0	0.8	0.8	86.30	3.7	56.7	56.8	55.2	1.69	33.610		
600.0	600.0	599.0	599.0	1.0	1.0	86.30	3.7	56.7	56.8	54.8	2.04	27.860		
700.0	700.0	698.3	698.2	1.2	1.2	86.85	3.2	57.4	57.5	55.1	2.39	24.070		
800.0	800.0	797.5	797.4	1.4	1.4	-3.58	1.6	59.4	59.0	56.3	2.74	21.574		
900.0	899.9	896.6	896.5	1.5	1.5	-1.18	-1.0	62.8	59.0	55.9	3.08	19.117		
1,000.0	999.7	995.7	995.4	1.7	1.7	2.25	-4.6	67.6	57.0	53.5	3.43	16.597		
1,100.0	1,099.1	1,094.7	1,094.1	2.0	1.9	7.20	-9.2	73.7	53.2	49.4	3.78	14.090		
1,200.0	1,198.2	1,193.6	1,192.5	2.2	2.2	13.49	-14.9	81.2	48.4	44.2	4.13	11.722		
1,300.0	1,297.0	1,292.4	1,290.7	2.5	2.4	21.48	-21.6	90.0	44.2	39.7	4.49	9.842		
1,400.0	1,395.5	1,391.2	1,388.7	2.8	2.6	32.12	-29.3	100.2	41.6	36.7	4.91	8.468		
1,465.6	1,460.0	1,456.1	1,452.9	3.0	2.8	40.20	-35.0	107.6	41.1	35.8	5.25	7.819 CC		
1,500.0	1,493.6	1,490.1	1,486.5	3.1	2.9	44.63	-38.1	111.7	41.2	35.8	5.45	7.561 ES		
1,600.0	1,591.5	1,589.5	1,584.7	3.5	3.2	58.07	-47.3	123.9	42.7	36.5	6.15	6.939		
1,700.0	1,689.0	1,688.8	1,682.9	3.8	3.5	71.83	-56.6	136.1	45.8	38.8	6.98	6.552		
1,800.0	1,786.1	1,788.0	1,780.9	4.3	3.8	85.18	-65.8	148.2	51.0	43.1	7.84	6.496 SF		
1,900.0	1,883.2	1,887.2	1,878.9	4.7	4.1	96.20	-75.1	160.4	58.5	49.9	8.62	6.784		
2,000.0	1,980.2	1,986.3	1,976.8	5.1	4.4	104.49	-84.3	172.6	67.7	58.4	9.31	7.265		
2,100.0	2,077.3	2,085.5	2,074.8	5.6	4.7	110.72	-93.6	184.7	77.9	68.0	9.95	7.829		
2,200.0	2,174.3	2,184.7	2,172.8	6.0	5.0	115.47	-102.8	196.9	88.9	78.3	10.56	8.414		
2,300.0	2,271.4	2,283.8	2,270.8	6.5	5.3	119.16	-112.1	209.1	100.3	89.2	11.16	8.992		
2,400.0	2,368.4	2,383.0	2,368.7	6.9	5.6	122.09	-121.3	221.2	112.1	100.3	11.74	9.546		
2,500.0	2,465.5	2,482.1	2,466.7	7.4	5.9	124.46	-130.5	233.4	124.1	111.7	12.32	10.070		
2,600.0	2,562.5	2,581.3	2,564.7	7.8	6.2	126.41	-139.8	245.6	136.2	123.3	12.90	10.561		
2,700.0	2,659.6	2,680.5	2,662.7	8.3	6.5	128.04	-149.0	257.7	148.5	135.0	13.48	11.021		
2,800.0	2,756.6	2,779.6	2,760.6	8.7	6.8	129.42	-158.3	269.9	160.9	146.8	14.05	11.449		
2,900.0	2,853.7	2,878.8	2,858.6	9.2	7.1	130.60	-167.5	282.1	173.4	158.7	14.63	11.849		
3,000.0	2,950.7	2,977.9	2,956.6	9.6	7.5	131.62	-176.7	294.2	185.9	170.7	15.21	12.222		
3,100.0	3,047.8	3,077.1	3,054.6	10.1	7.8	132.52	-186.0	306.4	198.5	182.7	15.79	12.570		
3,200.0	3,144.8	3,176.3	3,152.5	10.5	8.1	133.30	-195.2	318.6	211.1	194.7	16.37	12.896		
3,300.0	3,241.9	3,275.4	3,250.5	11.0	8.4	134.00	-204.5	330.7	223.8	206.8	16.95	13.200		
3,400.0	3,339.0	3,374.6	3,348.5	11.5	8.7	134.62	-213.7	342.9	236.5	218.9	17.53	13.486		
3,500.0	3,436.0	3,473.7	3,446.5	11.9	9.0	135.18	-223.0	355.1	249.2	231.1	18.12	13.754		
3,600.0	3,533.1	3,572.9	3,544.5	12.4	9.3	135.69	-232.2	367.2	261.9	243.2	18.70	14.006		
3,700.0	3,630.1	3,672.1	3,642.4	12.8	9.7	136.15	-241.4	379.4	274.7	255.4	19.28	14.243		
3,800.0	3,727.2	3,771.2	3,740.4	13.3	10.0	136.57	-250.7	391.6	287.4	267.6	19.87	14.467		
3,900.0	3,824.2	3,870.4	3,838.4	13.8	10.3	136.95	-259.9	403.7	300.2	279.8	20.45	14.678		
4,000.0	3,921.3	3,969.5	3,936.4	14.2	10.6	137.30	-269.2	415.9	313.0	292.0	21.04	14.878		
4,100.0	4,018.3	4,068.7	4,034.3	14.7	10.9	137.62	-278.4	428.1	325.8	304.2	21.63	15.067		
4,200.0	4,115.4	4,167.9	4,132.3	15.2	11.2	137.92	-287.7	440.2	338.7	316.4	22.21	15.246		
4,300.0	4,212.4	4,267.0	4,230.3	15.6	11.6	138.20	-296.9	452.4	351.5	328.7	22.80	15.416		
4,400.0	4,309.5	4,366.2	4,328.3	16.1	11.9	138.46	-306.1	464.6	364.3	340.9	23.39	15.577		
4,500.0	4,406.5	4,465.3	4,426.2	16.5	12.2	138.70	-315.4	476.7	377.1	353.2	23.97	15.731		
4,600.0	4,503.6	4,564.5	4,524.2	17.0	12.5	138.92	-324.6	488.9	390.0	365.4	24.56	15.878		
4,700.0	4,600.6	4,663.7	4,622.2	17.5	12.8	139.13	-333.9	501.1	402.8	377.7	25.15	16.017		
4,800.0	4,697.7	4,762.8	4,720.2	17.9	13.1	139.33	-343.1	513.2	415.7	390.0	25.74	16.151		
4,900.0	4,794.8	4,862.0	4,818.1	18.4	13.5	139.51	-352.4	525.4	428.6	402.2	26.33	16.278		
5,000.0	4,891.8	4,961.1	4,916.1	18.9	13.8	139.69	-361.6	537.6	441.4	414.5	26.92	16.400		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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>Offset Design</b> S32-T2N-R68W (File/Hwy 52) - Hwy 52 4M-32H-O268 - Hz - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-Geolink MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,988.9	5,060.3	5,014.1	19.3	14.1	139.85	-370.8	549.7	454.3	426.8	27.51	16.516		
5,200.0	5,085.9	5,159.5	5,112.1	19.8	14.4	140.01	-380.1	561.9	467.2	439.1	28.09	16.628		
5,300.0	5,183.0	5,258.6	5,210.0	20.3	14.7	140.15	-389.3	574.1	480.0	451.4	28.68	16.735		
5,400.0	5,280.0	5,357.8	5,308.0	20.7	15.1	140.29	-398.6	586.2	492.9	463.6	29.27	16.838		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4N-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	83.30	7.3	62.3	62.8					
100.0	100.0	99.0	99.0	0.1	0.1	83.30	7.3	62.3	62.7	62.5	0.30	212.544		
200.0	200.0	199.0	199.0	0.3	0.3	83.30	7.3	62.3	62.7	62.1	0.64	97.430		
300.0	300.0	299.0	299.0	0.5	0.5	83.30	7.3	62.3	62.7	61.8	0.99	63.184		
400.0	400.0	399.0	399.0	0.7	0.7	83.30	7.3	62.3	62.7	61.4	1.34	46.751		
500.0	500.0	499.0	499.0	0.8	0.8	83.30	7.3	62.3	62.7	61.1	1.69	37.102		
600.0	600.0	599.0	599.0	1.0	1.0	83.30	7.3	62.3	62.7	60.7	2.04	30.754		
700.0	700.0	699.0	699.0	1.2	1.2	83.30	7.3	62.3	62.7	60.4	2.39	26.261		
800.0	800.0	798.1	798.1	1.4	1.4	-8.32	6.9	63.1	63.0	60.3	2.74	23.024		
900.0	899.9	897.2	897.2	1.5	1.5	-7.43	5.7	65.3	61.7	58.6	3.08	20.009		
1,000.0	999.7	996.3	996.1	1.7	1.7	-5.99	3.7	69.1	58.4	54.9	3.43	17.026		
1,100.0	1,099.1	1,095.3	1,095.0	2.0	1.9	-3.70	0.8	74.3	53.1	49.3	3.77	14.078		
1,200.0	1,198.2	1,194.2	1,193.6	2.2	2.1	-1.00	-2.8	81.1	46.2	42.1	4.11	11.228		
1,300.0	1,297.0	1,293.2	1,292.2	2.5	2.3	2.87	-7.3	89.3	39.2	34.8	4.46	8.798		
1,400.0	1,395.5	1,392.3	1,390.6	2.8	2.5	9.80	-12.6	99.1	32.7	27.9	4.81	6.797		
1,500.0	1,493.6	1,491.4	1,488.9	3.1	2.8	21.28	-18.7	110.3	27.2	22.0	5.22	5.204		
1,600.0	1,591.5	1,590.6	1,587.0	3.5	3.1	38.62	-25.6	123.1	23.7	17.8	5.84	4.048		
1,658.8	1,648.9	1,649.0	1,644.6	3.7	3.2	51.03	-30.0	131.3	23.0	16.7	6.37	3.615 CC		
1,700.0	1,689.0	1,689.8	1,684.9	3.8	3.4	59.96	-33.3	137.3	23.3	16.6	6.78	3.442 ES		
1,800.0	1,786.1	1,789.1	1,782.6	4.3	3.7	79.30	-41.8	153.1	26.7	18.9	7.78	3.427 SF		
1,900.0	1,883.2	1,888.6	1,880.1	4.7	4.0	91.03	-51.2	170.3	32.9	24.2	8.64	3.803		
2,000.0	1,980.2	1,988.2	1,977.4	5.1	4.4	96.84	-61.2	188.9	40.2	30.8	9.43	4.266		
2,100.0	2,077.3	2,087.8	2,074.8	5.6	4.8	100.65	-71.3	207.6	47.9	37.7	10.22	4.692		
2,200.0	2,174.3	2,187.5	2,172.1	6.0	5.1	103.39	-81.4	226.2	55.8	44.8	11.00	5.071		
2,300.0	2,271.4	2,287.1	2,269.5	6.5	5.5	105.45	-91.5	244.9	63.7	51.9	11.78	5.407		
2,400.0	2,368.4	2,386.8	2,366.9	6.9	5.9	107.06	-101.6	263.6	71.7	59.2	12.57	5.705		
2,500.0	2,465.5	2,486.5	2,464.3	7.4	6.3	108.34	-111.7	282.2	79.8	66.4	13.36	5.969		
2,600.0	2,562.5	2,586.1	2,561.6	7.8	6.7	109.39	-121.9	300.9	87.9	73.7	14.16	6.205		
2,700.0	2,659.6	2,685.8	2,659.0	8.3	7.1	110.26	-132.0	319.6	96.0	81.0	14.95	6.417		
2,800.0	2,756.6	2,785.4	2,756.4	8.7	7.5	111.00	-142.1	338.3	104.1	88.3	15.75	6.607		
2,900.0	2,853.7	2,885.1	2,853.7	9.2	7.9	111.62	-152.2	356.9	112.2	95.7	16.55	6.779		
3,000.0	2,950.7	2,984.8	2,951.1	9.6	8.3	112.17	-162.3	375.6	120.4	103.0	17.36	6.935		
3,100.0	3,047.8	3,084.4	3,048.5	10.1	8.7	112.64	-172.4	394.3	128.5	110.4	18.16	7.077		
3,200.0	3,144.8	3,184.1	3,145.9	10.5	9.1	113.06	-182.5	413.0	136.7	117.7	18.97	7.207		
3,300.0	3,241.9	3,283.8	3,243.2	11.0	9.5	113.43	-192.6	431.6	144.9	125.1	19.78	7.326		
3,400.0	3,339.0	3,383.4	3,340.6	11.5	9.9	113.76	-202.7	450.3	153.1	132.5	20.58	7.435		
3,500.0	3,436.0	3,483.1	3,438.0	11.9	10.3	114.06	-212.8	469.0	161.2	139.8	21.39	7.536		
3,600.0	3,533.1	3,582.7	3,535.4	12.4	10.7	114.33	-223.0	487.7	169.4	147.2	22.20	7.630		
3,700.0	3,630.1	3,682.4	3,632.7	12.8	11.1	114.57	-233.1	506.3	177.6	154.6	23.02	7.717		
3,800.0	3,727.2	3,782.1	3,730.1	13.3	11.6	114.79	-243.2	525.0	185.8	162.0	23.83	7.798		
3,900.0	3,824.2	3,881.7	3,827.5	13.8	12.0	115.00	-253.3	543.7	194.0	169.4	24.64	7.873		
4,000.0	3,921.3	3,981.4	3,924.8	14.2	12.4	115.18	-263.4	562.4	202.2	176.7	25.45	7.944		
4,100.0	4,018.3	4,081.0	4,022.2	14.7	12.8	115.36	-273.5	581.0	210.4	184.1	26.27	8.010		
4,200.0	4,115.4	4,180.7	4,119.6	15.2	13.2	115.52	-283.6	599.7	218.6	191.5	27.08	8.071		
4,300.0	4,212.4	4,280.4	4,217.0	15.6	13.6	115.66	-293.7	618.4	226.8	198.9	27.90	8.130		
4,400.0	4,309.5	4,380.0	4,314.3	16.1	14.0	115.80	-303.8	637.1	235.0	206.3	28.71	8.185		
4,500.0	4,406.5	4,479.7	4,411.7	16.5	14.4	115.93	-313.9	655.7	243.2	213.7	29.53	8.236		
4,600.0	4,503.6	4,579.3	4,509.1	17.0	14.8	116.05	-324.1	674.4	251.4	221.1	30.35	8.285		
4,700.0	4,600.6	4,679.0	4,606.5	17.5	15.3	116.16	-334.2	693.1	259.6	228.5	31.16	8.331		
4,800.0	4,697.7	4,778.7	4,703.8	17.9	15.7	116.27	-344.3	711.8	267.8	235.9	31.98	8.375		
4,900.0	4,794.8	4,878.3	4,801.2	18.4	16.1	116.37	-354.4	730.4	276.1	243.3	32.80	8.417		
5,000.0	4,891.8	4,978.0	4,898.6	18.9	16.5	116.46	-364.5	749.1	284.3	250.7	33.62	8.457		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4N-32H-O268 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,988.9	5,077.7	4,995.9	19.3	16.9	116.55	-374.6	767.8	292.5	258.0	34.43	8.494		
5,200.0	5,085.9	5,177.3	5,093.3	19.8	17.3	116.63	-384.7	786.5	300.7	265.4	35.25	8.530		
5,300.0	5,183.0	5,277.0	5,190.7	20.3	17.7	116.71	-394.8	805.1	308.9	272.8	36.07	8.564		
5,400.0	5,280.0	5,376.6	5,288.1	20.7	18.1	116.79	-404.9	823.8	317.1	280.2	36.89	8.597		
5,500.0	5,377.1	5,476.3	5,385.4	21.2	18.6	116.86	-415.0	842.5	325.3	287.6	37.71	8.628		
5,600.0	5,474.1	5,576.0	5,482.8	21.7	19.0	116.93	-425.2	861.2	333.5	295.0	38.53	8.658		
5,700.0	5,571.2	5,675.6	5,580.2	22.1	19.4	116.99	-435.3	879.8	341.8	302.4	39.34	8.686		
5,800.0	5,668.2	5,775.3	5,677.6	22.6	19.8	117.05	-445.4	898.5	350.0	309.8	40.16	8.714		
5,900.0	5,765.3	5,874.9	5,774.9	23.0	20.2	117.11	-455.5	917.2	358.2	317.2	40.98	8.740		
6,000.0	5,862.3	5,974.6	5,872.3	23.5	20.6	117.17	-465.6	935.9	366.4	324.6	41.80	8.765		
6,100.0	5,959.4	6,074.3	5,969.7	24.0	21.0	117.22	-475.7	954.5	374.6	332.0	42.62	8.790		
6,200.0	6,056.4	6,173.9	6,067.0	24.4	21.4	117.27	-485.8	973.2	382.8	339.4	43.44	8.813		
6,300.0	6,153.5	6,273.6	6,164.4	24.9	21.9	117.32	-495.9	991.9	391.1	346.8	44.26	8.835		
6,400.0	6,250.6	6,373.3	6,261.8	25.4	22.3	117.37	-506.0	1,010.6	399.3	354.2	45.08	8.857		
6,500.0	6,347.6	6,472.9	6,359.2	25.8	22.7	117.41	-516.1	1,029.2	407.5	361.6	45.90	8.878		
6,600.0	6,444.7	6,572.6	6,456.5	26.3	23.1	117.45	-526.3	1,047.9	415.7	369.0	46.72	8.898		
6,700.0	6,541.7	6,672.2	6,553.9	26.8	23.5	117.50	-536.4	1,066.6	423.9	376.4	47.54	8.917		
6,800.0	6,638.8	6,771.9	6,651.3	27.2	23.9	117.54	-546.5	1,085.3	432.2	383.8	48.36	8.936		
6,900.0	6,735.8	6,871.6	6,748.6	27.7	24.3	117.57	-556.6	1,103.9	440.4	391.2	49.18	8.954		
7,000.0	6,832.9	7,034.4	6,908.1	28.2	24.9	118.31	-564.2	1,134.5	445.9	395.9	49.98	8.922		
7,100.0	6,929.9	7,269.7	7,128.7	28.6	25.2	112.95	-499.7	1,176.8	423.2	375.5	47.71	8.869		
7,200.0	7,025.1	7,410.4	7,241.8	29.1	25.1	105.83	-419.6	1,198.5	374.5	335.1	39.34	9.520		
7,300.0	7,115.7	7,474.1	7,286.0	29.7	25.1	109.33	-374.6	1,207.0	324.1	292.4	31.77	10.204		
7,400.0	7,198.9	7,495.1	7,299.5	30.2	25.1	110.16	-358.6	1,209.6	292.3	262.9	29.37	9.953		
7,452.2	7,238.6	7,496.2	7,300.1	30.5	25.1	108.59	-357.8	1,209.7	287.7	258.2	29.49	9.755		
7,500.0	7,272.2	7,493.0	7,298.1	30.8	25.1	105.98	-360.2	1,209.3	291.5	261.4	30.11	9.681		
7,600.0	7,333.4	7,477.5	7,288.2	31.5	25.1	97.40	-372.0	1,207.4	322.0	289.4	32.61	9.876		
7,700.0	7,380.5	7,450.0	7,269.9	32.2	25.1	85.17	-392.1	1,203.9	373.8	338.7	35.07	10.659		
7,800.0	7,412.3	7,424.4	7,252.0	32.9	25.1	73.34	-410.1	1,200.5	436.0	401.2	34.80	12.531		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4O-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	86.77	3.7	65.1	65.2					
100.0	100.0	99.0	99.0	0.1	0.1	86.77	3.7	65.1	65.2	64.9	0.30	220.921		
200.0	200.0	199.0	199.0	0.3	0.3	86.77	3.7	65.1	65.2	64.6	0.64	101.271		
300.0	300.0	299.0	299.0	0.5	0.5	86.77	3.7	65.1	65.2	64.2	0.99	65.675		
400.0	400.0	399.0	399.0	0.7	0.7	86.77	3.7	65.1	65.2	63.9	1.34	48.594 CC, ES		
500.0	500.0	498.0	498.0	0.8	0.8	87.04	3.4	65.9	66.0	64.3	1.69	39.060		
600.0	600.0	596.8	596.8	1.0	1.0	87.83	2.6	68.3	68.4	66.4	2.04	33.532		
700.0	700.0	695.6	695.5	1.2	1.2	89.04	1.2	72.3	72.4	70.0	2.40	30.241		
800.0	800.0	794.2	793.9	1.4	1.4	-1.49	-0.7	77.9	77.7	74.9	2.73	28.421		
900.0	899.9	892.8	892.2	1.5	1.6	0.13	-3.2	85.2	81.6	78.5	3.08	26.481		
1,000.0	999.7	991.4	990.3	1.7	1.8	1.97	-6.2	94.0	83.7	80.3	3.43	24.435		
1,100.0	1,099.1	1,089.9	1,088.3	2.0	2.1	4.14	-9.7	104.4	84.1	80.3	3.77	22.323		
1,200.0	1,198.2	1,188.4	1,186.0	2.2	2.3	5.78	-13.8	116.4	83.1	79.0	4.11	20.215		
1,300.0	1,297.0	1,287.0	1,283.4	2.5	2.6	6.94	-18.4	130.0	82.0	77.5	4.45	18.405		
1,400.0	1,395.5	1,385.5	1,380.6	2.8	2.9	8.47	-23.6	145.1	81.0	76.2	4.80	16.879		
1,500.0	1,493.6	1,484.0	1,477.6	3.1	3.2	10.29	-29.3	161.9	80.3	75.1	5.16	15.572		
1,600.0	1,591.5	1,582.5	1,574.2	3.5	3.6	12.34	-35.6	180.2	79.7	74.2	5.52	14.431		
1,700.0	1,689.0	1,681.1	1,670.4	3.8	4.0	14.58	-42.4	200.1	79.3	73.4	5.91	13.413		
1,762.8	1,750.0	1,743.0	1,730.7	4.1	4.2	16.22	-46.9	213.4	79.3	73.1	6.18	12.839		
1,800.0	1,786.1	1,779.7	1,766.4	4.3	4.4	17.20	-49.7	221.6	79.3	72.9	6.34	12.502		
1,900.0	1,883.2	1,878.2	1,861.9	4.7	4.8	20.02	-57.5	244.6	80.9	74.1	6.81	11.871		
2,000.0	1,980.2	1,977.4	1,957.7	5.1	5.3	22.51	-65.9	269.1	84.1	76.8	7.32	11.486		
2,100.0	2,077.3	2,077.3	2,054.0	5.6	5.8	24.80	-74.4	294.0	87.6	79.8	7.87	11.138		
2,200.0	2,174.3	2,177.2	2,150.4	6.0	6.3	26.91	-82.8	318.8	91.3	82.9	8.45	10.805		
2,300.0	2,271.4	2,277.1	2,246.8	6.5	6.7	28.85	-91.3	343.7	95.1	86.0	9.07	10.489		
2,400.0	2,368.4	2,377.0	2,343.1	6.9	7.2	30.64	-99.8	368.5	99.0	89.3	9.71	10.191		
2,500.0	2,465.5	2,476.8	2,439.5	7.4	7.7	32.30	-108.3	393.4	103.0	92.6	10.39	9.912		
2,600.0	2,562.5	2,576.7	2,535.9	7.8	8.2	33.83	-116.7	418.2	107.0	96.0	11.09	9.654		
2,700.0	2,659.6	2,676.6	2,632.2	8.3	8.7	35.25	-125.2	443.0	111.2	99.4	11.81	9.415		
2,800.0	2,756.6	2,776.5	2,728.6	8.7	9.2	36.56	-133.7	467.9	115.4	102.8	12.55	9.195		
2,900.0	2,853.7	2,876.3	2,825.0	9.2	9.7	37.78	-142.1	492.7	119.6	106.3	13.30	8.993		
3,000.0	2,950.7	2,976.2	2,921.3	9.6	10.2	38.92	-150.6	517.6	123.9	109.9	14.07	8.807		
3,100.0	3,047.8	3,076.1	3,017.7	10.1	10.7	39.99	-159.1	542.4	128.3	113.4	14.85	8.637		
3,200.0	3,144.8	3,176.0	3,114.1	10.5	11.2	40.98	-167.6	567.3	132.7	117.0	15.64	8.480		
3,300.0	3,241.9	3,275.9	3,210.4	11.0	11.7	41.91	-176.0	592.1	137.1	120.6	16.45	8.336		
3,400.0	3,339.0	3,375.7	3,306.8	11.5	12.2	42.77	-184.5	617.0	141.6	124.3	17.25	8.204		
3,500.0	3,436.0	3,475.6	3,403.2	11.9	12.7	43.59	-193.0	641.8	146.0	128.0	18.07	8.082		
3,600.0	3,533.1	3,575.5	3,499.5	12.4	13.2	44.36	-201.4	666.7	150.6	131.7	18.89	7.969		
3,700.0	3,630.1	3,675.4	3,595.9	12.8	13.7	45.08	-209.9	691.5	155.1	135.4	19.72	7.865		
3,800.0	3,727.2	3,775.3	3,692.3	13.3	14.2	45.76	-218.4	716.4	159.7	139.1	20.55	7.769		
3,900.0	3,824.2	3,875.1	3,788.6	13.8	14.7	46.41	-226.9	741.2	164.3	142.9	21.39	7.679		
4,000.0	3,921.3	3,975.0	3,885.0	14.2	15.2	47.02	-235.3	766.1	168.9	146.6	22.23	7.596		
4,100.0	4,018.3	4,074.9	3,981.4	14.7	15.7	47.59	-243.8	790.9	173.5	150.4	23.07	7.519		
4,200.0	4,115.4	4,174.8	4,077.7	15.2	16.2	48.14	-252.3	815.7	178.1	154.2	23.92	7.447		
4,300.0	4,212.4	4,274.6	4,174.1	15.6	16.7	48.66	-260.8	840.6	182.8	158.0	24.77	7.380		
4,400.0	4,309.5	4,374.5	4,270.5	16.1	17.2	49.15	-269.2	865.4	187.5	161.9	25.62	7.317		
4,500.0	4,406.5	4,474.4	4,366.8	16.5	17.7	49.62	-277.7	890.3	192.2	165.7	26.48	7.258		
4,600.0	4,503.6	4,574.3	4,463.2	17.0	18.2	50.06	-286.2	915.1	196.9	169.5	27.33	7.203		
4,700.0	4,600.6	4,674.2	4,559.6	17.5	18.7	50.49	-294.6	940.0	201.6	173.4	28.19	7.151		
4,800.0	4,697.7	4,774.0	4,655.9	17.9	19.2	50.90	-303.1	964.8	206.3	177.2	29.05	7.102		
4,900.0	4,794.8	4,873.9	4,752.3	18.4	19.7	51.28	-311.6	989.7	211.0	181.1	29.91	7.056		
5,000.0	4,891.8	4,973.8	4,848.7	18.9	20.2	51.65	-320.1	1,014.5	215.8	185.0	30.77	7.013		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4O-32H-O268 - 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)						
5,100.0	4,988.9	5,073.7	4,945.0	19.3	20.7	52.01	-328.5	1,039.4	220.5	188.9	31.63	6.972		
5,200.0	5,085.9	5,173.5	5,041.4	19.8	21.2	52.35	-337.0	1,064.2	225.3	192.8	32.49	6.933		
5,300.0	5,183.0	5,273.4	5,137.8	20.3	21.7	52.68	-345.5	1,089.1	230.0	196.7	33.36	6.896		
5,400.0	5,280.0	5,373.3	5,234.1	20.7	22.2	52.99	-354.0	1,113.9	234.8	200.6	34.22	6.861		
5,500.0	5,377.1	5,473.2	5,330.5	21.2	22.7	53.29	-362.4	1,138.7	239.6	204.5	35.09	6.828		
5,600.0	5,474.1	5,573.1	5,426.9	21.7	23.2	53.58	-370.9	1,163.6	244.4	208.4	35.95	6.797		
5,700.0	5,571.2	5,672.9	5,523.2	22.1	23.7	53.85	-379.4	1,188.4	249.1	212.3	36.82	6.767		
5,800.0	5,668.2	5,772.8	5,619.6	22.6	24.2	54.12	-387.8	1,213.3	253.9	216.2	37.69	6.738		
5,900.0	5,765.3	5,872.7	5,716.0	23.0	24.7	54.38	-396.3	1,238.1	258.7	220.2	38.55	6.711		
6,000.0	5,862.3	5,972.6	5,812.3	23.5	25.2	54.63	-404.8	1,263.0	263.5	224.1	39.42	6.685		
6,100.0	5,959.4	6,072.4	5,908.7	24.0	25.7	54.86	-413.3	1,287.8	268.3	228.1	40.29	6.661		
6,200.0	6,056.4	6,172.3	6,005.1	24.4	26.2	55.09	-421.7	1,312.7	273.2	232.0	41.16	6.637		
6,300.0	6,153.5	6,272.2	6,101.4	24.9	26.7	55.32	-430.2	1,337.5	278.0	236.0	42.03	6.614		
6,400.0	6,250.6	6,372.1	6,197.8	25.4	27.2	55.53	-438.7	1,362.4	282.8	239.9	42.90	6.593		
6,500.0	6,347.6	6,472.0	6,294.2	25.8	27.7	55.74	-447.1	1,387.2	287.6	243.9	43.77	6.572		
6,600.0	6,444.7	6,571.8	6,390.5	26.3	28.2	55.94	-455.6	1,412.1	292.5	247.8	44.64	6.552		
6,700.0	6,541.7	6,671.7	6,486.9	26.8	28.7	56.13	-464.1	1,436.9	297.3	251.8	45.51	6.533		
6,800.0	6,638.8	6,771.6	6,583.3	27.2	29.2	56.32	-472.6	1,461.8	302.1	255.8	46.38	6.515		
6,900.0	6,735.8	6,871.5	6,679.6	27.7	29.7	56.50	-481.0	1,486.6	307.0	259.7	47.25	6.497		
7,000.0	6,832.9	6,971.4	6,776.0	28.2	30.2	56.68	-489.5	1,511.4	311.8	263.7	48.12	6.480		
7,100.0	6,929.9	7,071.3	6,872.4	28.6	30.7	42.58	-498.0	1,536.3	315.5	266.6	48.90	6.453		
7,200.0	7,025.1	7,170.6	6,968.2	29.1	31.2	15.77	-506.4	1,561.0	306.5	258.8	47.72	6.423		
7,300.0	7,115.7	7,266.5	7,060.8	29.7	31.7	-0.61	-514.6	1,584.9	282.4	238.7	43.73	6.458		
7,400.0	7,198.9	7,381.3	7,171.7	30.2	32.2	-17.48	-520.1	1,613.3	243.0	207.6	35.40	6.864		
7,500.0	7,272.2	7,476.8	7,263.6	30.8	32.6	-44.21	-508.8	1,636.3	186.2	160.5	25.68	7.252		
7,600.0	7,333.4	7,526.6	7,310.5	31.5	32.7	-68.84	-496.7	1,647.9	140.5	110.6	29.94	4.694		
7,638.5	7,353.3	7,537.0	7,320.2	31.7	32.7	-74.25	-493.6	1,650.2	135.5	103.7	31.86	4.254 SF		
7,700.0	7,380.5	7,546.3	7,328.8	32.2	32.8	-77.58	-490.8	1,652.3	148.5	115.4	33.13	4.482		
7,800.0	7,412.3	7,550.0	7,332.2	32.9	32.8	-71.82	-489.6	1,653.1	210.1	177.4	32.72	6.422		
7,900.0	7,427.6	7,535.7	7,318.9	33.7	32.7	-52.39	-494.1	1,649.9	292.5	262.3	30.21	9.683		
8,000.0	7,429.0	7,517.9	7,302.4	34.5	32.7	-40.89	-499.1	1,645.9	380.5	351.7	28.78	13.221		
8,100.0	7,429.0	7,500.0	7,285.6	35.3	32.6	-36.30	-503.7	1,641.8	472.0	443.9	28.08	16.809		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4P-32H-O268 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	84.09	7.3	70.7	71.1					
100.0	100.0	99.0	99.0	0.1	0.1	84.09	7.3	70.7	71.1	70.8	0.30	240.804		
200.0	200.0	199.0	199.0	0.3	0.3	84.09	7.3	70.7	71.1	70.4	0.64	110.385 CC, ES		
300.0	300.0	297.8	297.8	0.5	0.5	84.28	7.2	71.5	71.9	70.9	0.99	72.491		
400.0	400.0	396.6	396.6	0.7	0.7	84.83	6.7	74.0	74.4	73.0	1.34	55.359		
500.0	500.0	495.2	495.1	0.8	0.9	85.68	5.9	78.2	78.5	76.8	1.70	46.128		
600.0	600.0	593.7	593.4	1.0	1.1	86.72	4.8	84.0	84.3	82.3	2.07	40.721		
700.0	700.0	691.9	691.3	1.2	1.3	87.86	3.4	91.5	91.8	89.4	2.45	37.437		
800.0	800.0	789.9	788.9	1.4	1.5	-2.98	1.7	100.5	100.6	97.9	2.73	36.878		
900.0	899.9	887.9	886.2	1.5	1.7	-1.90	-0.3	111.2	108.1	105.0	3.07	35.146		
1,000.0	999.7	985.8	983.3	1.7	2.0	-0.85	-2.6	123.6	113.8	110.3	3.42	33.269		
1,100.0	1,099.1	1,083.7	1,080.2	2.0	2.3	0.23	-5.3	137.6	117.7	113.9	3.76	31.288		
1,200.0	1,198.2	1,181.7	1,176.9	2.2	2.6	0.43	-8.2	153.2	120.1	116.0	4.10	29.268		
1,300.0	1,297.0	1,279.6	1,273.2	2.5	2.9	-0.10	-11.4	170.4	122.3	117.8	4.44	27.511		
1,400.0	1,395.5	1,377.4	1,369.2	2.8	3.3	-0.48	-15.0	189.2	124.5	119.7	4.79	26.016		
1,500.0	1,493.6	1,475.3	1,464.7	3.1	3.7	-0.77	-18.8	209.6	126.8	121.7	5.13	24.728		
1,600.0	1,591.5	1,573.0	1,559.9	3.5	4.1	-1.02	-23.0	231.6	129.1	123.6	5.47	23.605		
1,700.0	1,689.0	1,670.8	1,654.7	3.8	4.6	-1.26	-27.4	255.2	131.4	125.5	5.81	22.616		
1,800.0	1,786.1	1,768.5	1,749.0	4.3	5.1	-1.23	-32.2	280.4	133.8	127.6	6.15	21.748		
1,900.0	1,883.2	1,866.1	1,842.7	4.7	5.6	-0.84	-37.2	307.1	137.7	131.1	6.50	21.174		
2,000.0	1,980.2	1,965.4	1,937.8	5.1	6.1	-0.43	-42.5	335.4	142.7	135.9	6.85	20.825		
2,100.0	2,077.3	2,065.3	2,033.3	5.6	6.6	-0.06	-47.9	363.9	147.8	140.6	7.21	20.516		
2,200.0	2,174.3	2,165.2	2,128.9	6.0	7.2	0.30	-53.3	392.4	153.0	145.4	7.56	20.235		
2,300.0	2,271.4	2,265.0	2,224.4	6.5	7.7	0.62	-58.6	421.0	158.1	150.2	7.91	19.980		
2,400.0	2,368.4	2,364.9	2,320.0	6.9	8.2	0.93	-64.0	449.5	163.2	155.0	8.27	19.747		
2,500.0	2,465.5	2,464.7	2,415.6	7.4	8.8	1.22	-69.4	478.0	168.4	159.8	8.62	19.533		
2,600.0	2,562.5	2,564.6	2,511.1	7.8	9.3	1.49	-74.7	506.5	173.5	164.6	8.98	19.334		
2,700.0	2,659.6	2,664.5	2,606.7	8.3	9.9	1.75	-80.1	535.0	178.7	169.4	9.33	19.150		
2,800.0	2,756.6	2,764.3	2,702.2	8.7	10.4	1.99	-85.5	563.5	183.8	174.2	9.69	18.979		
2,900.0	2,853.7	2,864.2	2,797.8	9.2	11.0	2.22	-90.9	592.0	189.0	179.0	10.04	18.820		
3,000.0	2,950.7	2,964.1	2,893.3	9.6	11.5	2.44	-96.2	620.5	194.2	183.8	10.40	18.670		
3,100.0	3,047.8	3,063.9	2,988.9	10.1	12.1	2.64	-101.6	649.1	199.3	188.6	10.76	18.529		
3,200.0	3,144.8	3,163.8	3,084.4	10.5	12.6	2.84	-107.0	677.6	204.5	193.4	11.12	18.397		
3,300.0	3,241.9	3,263.7	3,180.0	11.0	13.2	3.02	-112.3	706.1	209.7	198.2	11.47	18.272		
3,400.0	3,339.0	3,363.5	3,275.6	11.5	13.7	3.20	-117.7	734.6	214.8	203.0	11.83	18.154		
3,500.0	3,436.0	3,463.4	3,371.1	11.9	14.3	3.37	-123.1	763.1	220.0	207.8	12.19	18.042		
3,600.0	3,533.1	3,563.2	3,466.7	12.4	14.8	3.53	-128.4	791.6	225.2	212.6	12.55	17.935		
3,700.0	3,630.1	3,663.1	3,562.2	12.8	15.4	3.68	-133.8	820.1	230.3	217.4	12.92	17.834		
3,800.0	3,727.2	3,763.0	3,657.8	13.3	15.9	3.83	-139.2	848.7	235.5	222.2	13.28	17.738		
3,900.0	3,824.2	3,862.8	3,753.3	13.8	16.5	3.97	-144.5	877.2	240.7	227.1	13.64	17.646		
4,000.0	3,921.3	3,962.7	3,848.9	14.2	17.0	4.11	-149.9	905.7	245.9	231.9	14.00	17.558		
4,100.0	4,018.3	4,062.6	3,944.5	14.7	17.6	4.23	-155.3	934.2	251.1	236.7	14.37	17.475		
4,200.0	4,115.4	4,162.4	4,040.0	15.2	18.1	4.36	-160.7	962.7	256.2	241.5	14.73	17.394		
4,300.0	4,212.4	4,262.3	4,135.6	15.6	18.7	4.48	-166.0	991.2	261.4	246.3	15.10	17.317		
4,400.0	4,309.5	4,362.2	4,231.1	16.1	19.2	4.59	-171.4	1,019.7	266.6	251.1	15.46	17.243		
4,500.0	4,406.5	4,462.0	4,326.7	16.5	19.8	4.70	-176.8	1,048.3	271.8	256.0	15.83	17.172		
4,600.0	4,503.6	4,561.9	4,422.2	17.0	20.3	4.81	-182.1	1,076.8	277.0	260.8	16.19	17.104		
4,700.0	4,600.6	4,661.8	4,517.8	17.5	20.9	4.91	-187.5	1,105.3	282.2	265.6	16.56	17.039		
4,800.0	4,697.7	4,761.6	4,613.3	17.9	21.5	5.01	-192.9	1,133.8	287.3	270.4	16.93	16.975		
4,900.0	4,794.8	4,861.5	4,708.9	18.4	22.0	5.10	-198.2	1,162.3	292.5	275.2	17.29	16.915		
5,000.0	4,891.8	4,961.3	4,804.5	18.9	22.6	5.19	-203.6	1,190.8	297.7	280.1	17.66	16.856		
5,100.0	4,988.9	5,061.2	4,900.0	19.3	23.1	5.28	-209.0	1,219.3	302.9	284.9	18.03	16.799		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Hwy 52 4P-32H-O268 - 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)				
5,200.0	5,085.9	5,161.1	4,995.6	19.8	23.7	5.37	-214.3	1,247.8	308.1	289.7	18.40	16.745		
5,300.0	5,183.0	5,260.9	5,091.1	20.3	24.2	5.45	-219.7	1,276.4	313.3	294.5	18.77	16.692		
5,400.0	5,280.0	5,360.8	5,186.7	20.7	24.8	5.53	-225.1	1,304.9	318.5	299.4	19.14	16.640		
5,500.0	5,377.1	5,460.7	5,282.2	21.2	25.3	5.60	-230.5	1,333.4	323.7	304.2	19.51	16.591		
5,600.0	5,474.1	5,560.5	5,377.8	21.7	25.9	5.68	-235.8	1,361.9	328.9	309.0	19.88	16.543		
5,700.0	5,571.2	5,660.4	5,473.4	22.1	26.4	5.75	-241.2	1,390.4	334.1	313.8	20.25	16.497		
5,800.0	5,668.2	5,760.3	5,568.9	22.6	27.0	5.82	-246.6	1,418.9	339.3	318.6	20.62	16.452		
5,900.0	5,765.3	5,860.1	5,664.5	23.0	27.5	5.89	-251.9	1,447.4	344.5	323.5	20.99	16.408		
6,000.0	5,862.3	5,960.0	5,760.0	23.5	28.1	5.96	-257.3	1,476.0	349.7	328.3	21.37	16.366		
6,100.0	5,959.4	6,059.9	5,855.6	24.0	28.6	6.02	-262.7	1,504.5	354.9	333.1	21.74	16.325		
6,200.0	6,056.4	6,159.7	5,951.1	24.4	29.2	6.08	-268.0	1,533.0	360.0	337.9	22.11	16.285		
6,300.0	6,153.5	6,259.6	6,046.7	24.9	29.8	6.14	-273.4	1,561.5	365.2	342.8	22.48	16.246		
6,400.0	6,250.6	6,359.4	6,142.2	25.4	30.3	6.20	-278.8	1,590.0	370.4	347.6	22.85	16.208		
6,500.0	6,347.6	6,459.3	6,237.8	25.8	30.9	6.26	-284.1	1,618.5	375.6	352.4	23.23	16.172		
6,600.0	6,444.7	6,559.2	6,333.4	26.3	31.4	6.31	-289.5	1,647.0	380.8	357.2	23.60	16.136		
6,700.0	6,541.7	6,659.0	6,428.9	26.8	32.0	6.37	-294.9	1,675.6	386.0	362.1	23.98	16.101		
6,800.0	6,638.8	6,758.9	6,524.5	27.2	32.5	6.42	-300.3	1,704.1	391.2	366.9	24.35	16.068		
6,900.0	6,735.8	6,858.8	6,620.0	27.7	33.1	6.47	-305.6	1,732.6	396.4	371.7	24.72	16.035		
7,000.0	6,832.9	6,958.6	6,715.6	28.2	33.6	6.52	-311.0	1,761.1	401.6	376.5	25.10	16.003		
7,100.0	6,929.9	7,058.5	6,811.1	28.6	34.2	-7.65	-316.4	1,789.6	406.5	381.1	25.45	15.975		
7,200.0	7,025.1	7,168.6	6,916.5	29.1	34.8	-35.83	-317.9	1,821.0	407.1	381.9	25.26	16.115		
7,300.0	7,115.7	7,266.4	7,009.1	29.7	35.2	-55.47	-302.9	1,848.5	403.9	377.9	26.04	15.508		
7,319.2	7,132.3	7,281.7	7,023.3	29.8	35.3	-58.50	-299.1	1,852.7	403.7	377.3	26.46	15.256		
7,400.0	7,198.9	7,333.6	7,070.6	30.2	35.5	-68.69	-283.2	1,866.6	407.9	379.4	28.46	14.331		
7,500.0	7,272.2	7,372.9	7,105.5	30.8	35.7	-75.29	-268.1	1,876.9	428.8	398.8	30.00	14.293 SF		
7,600.0	7,333.4	7,391.2	7,121.3	31.5	35.7	-75.66	-260.3	1,881.5	469.2	439.2	30.04	15.619		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - RAY NELSON 33-32 (EXISTING) - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 926-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)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	56.27	229.9	344.3	414.1						
100.0	100.0	91.9	91.9	0.1	0.2	56.27	229.8	344.3	413.9	413.6	0.31	1,334.553			
200.0	200.0	192.9	192.9	0.3	0.3	56.28	229.6	344.0	413.6	412.9	0.66	624.270			
300.0	300.0	293.9	293.9	0.5	0.5	56.29	229.2	343.5	413.0	412.0	1.01	406.951			
400.0	400.0	395.0	395.0	0.7	0.7	56.31	228.6	342.9	412.2	410.8	1.37	301.465			
500.0	500.0	496.0	495.9	0.8	0.9	56.33	227.9	342.1	411.1	409.4	1.72	239.066			
600.0	600.0	597.0	596.9	1.0	1.1	56.35	227.0	341.1	409.7	407.7	2.07	197.773			
700.0	700.0	697.9	697.9	1.2	1.2	56.38	225.9	339.9	408.2	405.8	2.42	168.382			
800.0	800.0	798.9	798.9	1.4	1.4	-35.63	224.7	338.5	406.0	403.3	2.74	148.030			
900.0	899.9	899.8	899.7	1.5	1.6	-35.94	223.3	336.9	401.1	398.0	3.09	129.790			
1,000.0	999.7	997.9	997.8	1.7	1.8	-36.73	222.8	334.8	393.4	390.0	3.44	114.444			
1,100.0	1,099.1	1,084.8	1,084.6	2.0	1.9	-38.14	225.3	332.6	384.7	380.9	3.78	101.869			
1,200.0	1,198.2	1,171.7	1,171.3	2.2	2.0	-41.07	231.2	331.5	377.2	373.1	4.14	91.122			
1,300.0	1,297.0	1,259.5	1,258.7	2.5	2.2	-45.16	240.2	331.3	372.1	367.6	4.54	82.048			
1,400.0	1,395.5	1,351.6	1,350.0	2.8	2.4	-49.53	252.0	331.6	369.3	364.3	4.99	74.070			
1,459.4	1,453.8	1,403.9	1,401.7	3.0	2.5	-52.22	259.9	331.5	368.7	363.4	5.28	69.884 CC, ES			
1,500.0	1,493.6	1,439.0	1,436.3	3.1	2.6	-54.08	265.8	331.5	369.0	363.5	5.48	67.367			
1,600.0	1,591.5	1,531.8	1,527.5	3.5	2.8	-59.08	282.9	331.3	371.8	365.8	6.03	61.607			
1,700.0	1,689.0	1,618.2	1,612.1	3.8	3.1	-64.05	300.7	330.3	377.7	371.0	6.63	56.927			
1,800.0	1,786.1	1,704.5	1,695.9	4.3	3.4	-68.98	321.0	328.4	388.0	380.8	7.27	53.352			
1,900.0	1,883.2	1,794.8	1,783.2	4.7	3.8	-73.74	343.7	325.9	402.7	394.7	7.93	50.784			
2,000.0	1,980.2	1,877.3	1,862.7	5.1	4.1	-77.92	365.7	323.2	421.6	413.0	8.56	49.243			
2,100.0	2,077.3	1,965.9	1,947.6	5.6	4.5	-82.15	390.8	319.9	444.7	435.6	9.19	48.394			
2,200.0	2,174.3	2,053.0	2,030.8	6.0	4.9	-86.10	416.2	315.4	471.0	461.2	9.81	48.029 SF			



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - RAY NELSON 34-32 (EXISTING) - ENCANA WELL - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 103-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	92.49	-8.3	191.9	192.3					
100.0	100.0	89.8	89.8	0.1	0.1	92.48	-8.3	192.1	192.3	0.28	680.424			
200.0	200.0	189.1	189.1	0.3	0.3	92.48	-8.4	192.9	193.1	0.63	307.628			
300.0	300.0	289.4	289.4	0.5	0.5	92.60	-8.8	193.9	194.1	0.98	198.418			
400.0	400.0	389.7	389.7	0.7	0.7	92.82	-9.6	194.6	194.8	1.33	146.685			
500.0	500.0	489.9	489.9	0.8	0.8	93.03	-10.3	195.1	195.4	1.68	116.472			
600.0	600.0	590.0	590.0	1.0	1.0	93.18	-10.9	195.6	195.9	2.03	96.667			
700.0	700.0	690.5	690.5	1.2	1.2	93.29	-11.3	196.0	196.3	2.38	82.595			
800.0	800.0	790.8	790.8	1.4	1.4	1.34	-11.4	196.1	196.0	2.72	71.942			
900.0	899.9	891.5	891.5	1.5	1.5	1.37	-11.5	196.1	192.5	3.07	62.640			
1,000.0	999.7	991.6	991.6	1.7	1.7	1.40	-11.3	195.6	185.1	3.42	54.161			
1,100.0	1,099.1	1,091.3	1,091.3	2.0	1.9	1.53	-11.4	195.1	174.1	3.76	46.329			
1,200.0	1,198.2	1,191.2	1,191.1	2.2	2.1	0.70	-11.3	194.2	159.5	4.10	38.920			
1,300.0	1,297.0	1,289.5	1,289.5	2.5	2.2	-1.04	-10.9	193.1	142.7	4.44	32.180			
1,400.0	1,395.5	1,387.9	1,387.9	2.8	2.4	-2.86	-10.2	192.1	124.5	4.77	26.072			
1,500.0	1,493.6	1,486.4	1,486.3	3.1	2.6	-5.03	-9.3	190.7	104.2	5.11	20.387			
1,600.0	1,591.5	1,584.1	1,584.1	3.5	2.7	-7.85	-8.6	189.0	82.0	5.45	15.043			
1,700.0	1,689.0	1,681.0	1,680.9	3.8	2.9	-12.46	-7.9	187.2	58.2	5.81	10.025			
1,800.0	1,786.1	1,777.5	1,777.4	4.3	3.1	-23.71	-6.8	185.9	34.3	6.29	5.452			
1,900.0	1,883.2	1,874.1	1,874.0	4.7	3.2	-68.03	-5.4	184.7	15.9	7.72	2.061			
1,919.9	1,902.4	1,893.3	1,893.2	4.8	3.3	-86.20	-5.0	184.5	15.1	8.04	1.873 CC, ES, SF			
2,000.0	1,980.2	1,970.9	1,970.8	5.1	3.4	-139.14	-3.6	183.6	25.3	7.68	3.298			
2,100.0	2,077.3	2,067.9	2,067.8	5.6	3.6	-158.30	-2.6	182.7	47.7	7.52	6.349			
2,200.0	2,174.3	2,165.5	2,165.3	6.0	3.8	-165.72	-2.6	182.3	71.1	7.69	9.251			
2,300.0	2,271.4	2,262.4	2,262.3	6.5	3.9	-169.69	-3.2	182.0	94.8	7.96	11.911			
2,400.0	2,368.4	2,359.4	2,359.2	6.9	4.1	-172.09	-3.7	181.6	118.8	8.26	14.390			
2,500.0	2,465.5	2,456.0	2,455.9	7.4	4.3	-173.91	-4.8	181.3	142.8	8.57	16.658			
2,600.0	2,562.5	2,548.6	2,548.4	7.8	4.4	-175.55	-6.7	179.4	168.2	8.88	18.938			
2,700.0	2,659.6	2,641.5	2,641.2	8.3	4.6	-177.02	-8.8	174.9	196.4	9.20	21.354			
2,800.0	2,756.6	2,737.3	2,736.7	8.7	4.8	-178.73	-13.0	169.3	225.2	9.52	23.649			
2,900.0	2,853.7	2,829.4	2,828.5	9.2	4.9	179.70	-18.2	163.4	254.5	9.85	25.832			
3,000.0	2,950.7	2,922.4	2,920.9	9.6	5.1	178.15	-24.6	156.0	285.3	10.19	27.991			
3,100.0	3,047.8	3,012.7	3,010.7	10.1	5.3	176.90	-30.9	148.1	317.0	10.54	30.082			
3,200.0	3,144.8	3,096.8	3,093.9	10.5	5.5	175.60	-38.5	138.7	351.0	10.89	32.230			
3,300.0	3,241.9	3,190.2	3,186.0	11.0	5.7	174.18	-48.3	126.6	386.8	11.27	34.312			
3,400.0	3,339.0	3,284.6	3,279.2	11.5	6.0	173.07	-57.6	114.8	422.3	11.66	36.215			
3,500.0	3,436.0	3,373.0	3,366.5	11.9	6.2	172.36	-65.0	103.2	458.5	12.03	38.111			
3,600.0	3,533.1	3,449.7	3,442.0	12.4	6.4	171.77	-71.9	91.4	496.8	12.39	40.107			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - RAY NELSON 44-32 (EXISTING) - ENCANA WELL - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 134-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	58.58	217.1	355.5	416.7						
100.0	100.0	90.4	90.4	0.1	0.1	58.64	216.8	355.7	416.6	416.3	0.29	1,443.734			
144.0	144.0	134.0	134.0	0.2	0.2	58.70	216.4	355.9	416.5	416.1	0.43	962.178 CC			
200.0	200.0	184.1	184.1	0.3	0.3	58.75	216.2	356.4	416.9	416.2	0.62	672.971			
300.0	300.0	271.7	271.6	0.5	0.5	58.74	217.6	358.4	419.7	418.8	0.95	440.584			
400.0	400.0	362.4	362.2	0.7	0.6	58.72	220.4	362.7	425.3	424.0	1.31	325.580			
500.0	500.0	450.6	450.1	0.8	0.8	58.74	223.8	368.6	433.0	431.4	1.68	258.483			
600.0	600.0	540.2	539.3	1.0	1.0	58.83	228.0	377.0	443.5	441.4	2.07	214.331			
700.0	700.0	630.6	629.0	1.2	1.3	58.98	232.8	387.2	455.9	453.4	2.49	183.212			
800.0	800.0	718.1	715.5	1.4	1.6	-32.75	237.9	399.0	470.1	467.5	2.60	180.692			
900.0	899.9	809.0	805.0	1.5	1.9	-32.43	243.0	413.7	484.0	481.0	2.94	164.553			
1,000.0	999.7	913.0	907.3	1.7	2.2	-32.10	247.1	431.9	495.3	492.0	3.32	149.386			
5,900.0	5,765.3	5,882.3	5,750.6	23.0	22.2	-58.52	208.5	1,454.7	496.9	458.3	38.61	12.872			
6,000.0	5,862.3	5,982.6	5,850.8	23.5	22.2	-61.01	209.2	1,454.8	485.2	445.2	39.94	12.147			
6,100.0	5,959.4	6,078.3	5,946.5	24.0	22.3	-63.53	209.8	1,454.6	474.1	432.8	41.25	11.493			
6,200.0	6,056.4	6,173.7	6,042.0	24.4	22.4	-66.14	210.7	1,454.6	464.4	421.9	42.55	10.915			
6,300.0	6,153.5	6,270.1	6,138.4	24.9	22.5	-68.88	211.8	1,454.7	456.0	412.2	43.83	10.405			
6,400.0	6,250.6	6,366.6	6,234.8	25.4	22.6	-71.74	213.2	1,454.8	448.9	403.8	45.07	9.959			
6,500.0	6,347.6	6,463.1	6,331.3	25.8	22.6	-74.71	214.7	1,454.6	443.1	396.9	46.27	9.577			
6,600.0	6,444.7	6,559.5	6,427.7	26.3	22.7	-77.78	216.4	1,454.2	438.8	391.4	47.40	9.256			
6,700.0	6,541.7	6,655.9	6,524.0	26.8	22.8	-80.88	218.3	1,453.9	435.9	387.5	48.46	8.995			
6,800.0	6,638.8	6,752.7	6,620.9	27.2	22.9	-84.01	220.1	1,453.8	434.5	385.1	49.42	8.792			
6,853.7	6,690.9	6,804.9	6,673.1	27.5	22.9	-85.70	221.1	1,453.7	434.3	384.4	49.89	8.705			
6,900.0	6,735.8	6,849.8	6,718.0	27.7	23.0	-87.17	222.0	1,453.6	434.5	384.2	50.27	8.643 ES			
7,000.0	6,832.9	6,952.3	6,820.5	28.2	23.0	-90.49	223.3	1,453.2	435.3	384.2	51.02	8.531			
7,100.0	6,929.9	7,046.8	6,915.0	28.6	23.1	-107.74	224.2	1,452.9	438.3	386.8	51.48	8.513 SF			
7,200.0	7,025.1	7,141.7	7,009.8	29.1	23.2	-136.15	225.2	1,452.7	456.8	406.2	50.59	9.030			
7,300.0	7,115.7	7,228.9	7,097.0	29.7	23.3	-151.38	226.5	1,452.7	493.6	445.4	48.15	10.251			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - RAY NELSON 6-8-32 (EXISTING) - ENCANA WELL - PLAN ONLY													Offset Site Error:	0.0 ft
Survey Program: 850-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)						
3,600.0	3,533.1	3,683.8	3,601.4	12.4	14.6	-67.86	310.4	851.3	488.3	467.6	20.72	23.561		
3,700.0	3,630.1	3,778.3	3,692.5	12.8	15.1	-68.90	285.4	851.0	456.6	435.3	21.34	21.397		
3,800.0	3,727.2	3,872.8	3,783.7	13.3	15.6	-70.09	260.4	850.7	425.1	403.2	21.94	19.379		
3,900.0	3,824.2	3,967.3	3,874.8	13.8	16.0	-71.48	235.5	850.4	393.8	371.3	22.51	17.495		
4,000.0	3,921.3	4,061.8	3,966.0	14.2	16.5	-73.10	210.5	850.1	362.8	339.7	23.05	15.737		
4,100.0	4,018.3	4,156.4	4,057.1	14.7	16.9	-75.02	185.6	849.7	332.0	308.5	23.55	14.097		
4,200.0	4,115.4	4,250.9	4,148.3	15.2	17.4	-77.31	160.6	849.4	301.7	277.7	24.00	12.569		
4,300.0	4,212.4	4,345.4	4,239.4	15.6	17.9	-80.11	135.7	849.1	271.9	247.5	24.39	11.149		
4,400.0	4,309.5	4,439.9	4,330.6	16.1	18.3	-83.57	110.7	848.8	242.9	218.2	24.70	9.833		
4,500.0	4,406.5	4,534.4	4,421.7	16.5	18.8	-87.92	85.8	848.4	214.9	189.9	24.94	8.616		
4,600.0	4,503.6	4,628.9	4,512.9	17.0	19.3	-93.48	60.8	848.1	188.4	163.3	25.16	7.489		
4,700.0	4,600.6	4,723.4	4,604.0	17.5	19.7	-100.67	35.9	847.8	164.2	138.7	25.52	6.435		
4,800.0	4,697.7	4,817.9	4,695.2	17.9	20.2	-109.99	10.9	847.5	143.4	117.1	26.29	5.455		
4,900.0	4,794.8	4,912.4	4,786.3	18.4	20.6	-121.77	-14.0	847.2	127.7	100.1	27.59	4.629		
5,000.0	4,891.8	5,006.9	4,877.4	18.9	21.1	-135.77	-39.0	846.8	119.2	90.2	28.98	4.111		
5,049.1	4,939.4	5,053.3	4,922.2	19.1	21.3	-143.09	-51.2	846.7	118.1	88.6	29.49	4.003 CC, ES		
5,100.0	4,988.9	5,101.4	4,968.6	19.3	21.6	-150.68	-63.9	846.5	119.2	89.4	29.85	3.994 SF		
5,200.0	5,085.9	5,195.9	5,059.7	19.8	22.0	-164.64	-88.9	846.2	128.0	97.7	30.26	4.228		
5,300.0	5,183.0	5,290.4	5,150.9	20.3	22.5	-176.38	-113.8	845.9	143.8	112.9	30.85	4.660		
5,400.0	5,280.0	5,384.9	5,242.0	20.7	23.0	174.35	-138.8	845.6	164.6	132.7	31.89	5.162		
5,500.0	5,377.1	5,479.4	5,333.2	21.2	23.4	167.19	-163.7	845.2	188.9	155.7	33.14	5.700		
5,600.0	5,474.1	5,573.9	5,424.3	21.7	23.9	161.66	-188.7	844.9	215.4	181.0	34.37	6.267		
5,700.0	5,571.2	5,668.4	5,515.5	22.1	24.3	157.33	-213.6	844.6	243.4	207.9	35.50	6.856		
5,800.0	5,668.2	5,762.9	5,606.6	22.6	24.8	153.88	-238.6	844.3	272.4	235.9	36.54	7.457		
5,900.0	5,765.3	5,857.4	5,697.8	23.0	25.3	151.10	-263.5	843.9	302.2	264.7	37.50	8.060		
6,000.0	5,862.3	5,951.9	5,788.9	23.5	25.7	148.81	-288.5	843.6	332.6	294.2	38.40	8.661		
6,100.0	5,959.4	6,046.4	5,880.1	24.0	26.2	146.89	-313.4	843.3	363.3	324.1	39.26	9.254		
6,200.0	6,056.4	6,140.9	5,971.2	24.4	26.6	145.28	-338.4	843.0	394.4	354.3	40.09	9.838		
6,300.0	6,153.5	6,235.4	6,062.4	24.9	27.1	143.90	-363.3	842.7	425.7	384.8	40.89	10.410		
6,400.0	6,250.6	6,329.9	6,153.5	25.4	27.6	142.71	-388.3	842.3	457.2	415.5	41.68	10.969		
6,500.0	6,347.6	6,424.4	6,244.7	25.8	28.0	141.67	-413.2	842.0	488.9	446.4	42.46	11.514		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Ray Nelson 7-8-32 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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	61.57	200.4	370.1	421.0					
100.0	100.0	90.0	90.0	0.1	0.1	61.57	200.4	370.1	420.9	420.6	0.28	1,493.065		
200.0	200.0	190.0	190.0	0.3	0.3	61.57	200.4	370.1	420.9	420.2	0.63	669.806		
300.0	300.0	290.0	290.0	0.5	0.5	61.57	200.4	370.1	420.9	419.9	0.98	430.590		
400.0	400.0	390.0	390.0	0.7	0.7	61.57	200.4	370.1	420.9	419.5	1.33	317.277		
500.0	500.0	490.0	490.0	0.8	0.8	61.57	200.4	370.1	420.9	419.2	1.68	251.177		
600.0	600.0	585.2	585.2	1.0	1.0	61.73	199.6	371.1	421.4	419.3	2.02	208.958		
700.0	700.0	679.7	679.6	1.2	1.2	62.27	196.8	374.4	423.2	420.8	2.36	179.495		
800.0	800.0	773.8	773.4	1.4	1.4	-28.82	192.1	380.2	425.9	423.2	2.73	156.223		
900.0	899.9	867.6	866.6	1.5	1.6	-27.73	185.5	388.3	427.5	424.4	3.11	137.530		
1,000.0	999.7	961.1	959.1	1.7	1.8	-26.50	177.0	398.8	427.6	424.1	3.52	121.551		
1,100.0	1,099.1	1,054.1	1,050.6	2.0	2.1	-25.12	166.6	411.5	426.3	422.3	3.96	107.688		
1,200.0	1,198.2	1,147.4	1,141.9	2.2	2.5	-24.45	154.4	426.5	423.8	419.4	4.42	95.787		
1,300.0	1,297.0	1,246.5	1,238.6	2.5	2.8	-24.30	140.6	443.4	420.8	415.9	4.93	85.426		
1,400.0	1,395.5	1,345.8	1,335.4	2.8	3.2	-23.98	126.8	460.4	416.8	411.4	5.43	76.754		
1,500.0	1,493.6	1,445.0	1,432.2	3.1	3.6	-23.56	113.0	477.3	411.6	405.7	5.93	69.369		
1,600.0	1,591.5	1,544.3	1,529.1	3.5	4.0	-23.07	99.2	494.3	405.3	398.9	6.44	62.978		
1,700.0	1,689.0	1,643.6	1,626.0	3.8	4.4	-22.54	85.3	511.2	397.8	390.8	6.93	57.363		
1,800.0	1,786.1	1,742.9	1,722.8	4.3	4.8	-21.71	71.5	528.2	389.1	381.6	7.43	52.362		
1,900.0	1,883.2	1,842.1	1,819.6	4.7	5.3	-20.44	57.7	545.1	380.3	372.4	7.92	48.028		
2,000.0	1,980.2	1,941.4	1,916.4	5.1	5.7	-19.11	43.9	562.0	371.7	363.3	8.39	44.310		
2,100.0	2,077.3	2,040.6	2,013.2	5.6	6.1	-17.72	30.1	579.0	363.4	354.5	8.84	41.100		
2,200.0	2,174.3	2,139.9	2,110.0	6.0	6.5	-16.26	16.3	595.9	355.2	346.0	9.27	38.313		
2,300.0	2,271.4	2,239.1	2,206.9	6.5	6.9	-14.74	2.5	612.8	347.3	337.7	9.68	35.880		
2,400.0	2,368.4	2,338.4	2,303.7	6.9	7.3	-13.15	-11.3	629.8	339.7	329.6	10.07	33.747		
2,500.0	2,465.5	2,437.6	2,400.5	7.4	7.8	-11.49	-25.1	646.7	332.3	321.9	10.43	31.868		
2,600.0	2,562.5	2,536.9	2,497.3	7.8	8.2	-9.76	-38.9	663.7	325.3	314.5	10.77	30.207		
2,700.0	2,659.6	2,636.1	2,594.1	8.3	8.6	-7.95	-52.7	680.6	318.5	307.4	11.09	28.732		
2,800.0	2,756.6	2,735.4	2,690.9	8.7	9.0	-6.06	-66.5	697.5	312.1	300.7	11.38	27.416		
2,900.0	2,853.7	2,834.6	2,787.7	9.2	9.4	-4.10	-80.3	714.5	306.0	294.4	11.67	26.234		
3,000.0	2,950.7	2,933.9	2,884.5	9.6	9.9	-2.06	-94.2	731.4	300.3	288.4	11.93	25.167		
3,100.0	3,047.8	3,033.1	2,981.4	10.1	10.3	0.05	-108.0	748.4	295.0	282.8	12.20	24.193		
3,200.0	3,144.8	3,132.4	3,078.2	10.5	10.7	2.23	-121.8	765.3	290.2	277.7	12.46	23.296		
3,300.0	3,241.9	3,231.6	3,175.0	11.0	11.1	4.49	-135.6	782.2	285.7	273.0	12.72	22.459		
3,400.0	3,339.0	3,330.9	3,271.8	11.5	11.5	6.81	-149.4	799.2	281.8	268.8	13.00	21.668		
3,500.0	3,436.0	3,430.1	3,368.6	11.9	12.0	9.19	-163.2	816.1	278.3	265.0	13.31	20.911		
3,600.0	3,533.1	3,529.4	3,465.4	12.4	12.4	11.63	-177.0	833.0	275.3	261.6	13.64	20.177		
3,700.0	3,630.1	3,628.6	3,562.2	12.8	12.8	14.12	-190.8	850.0	272.8	258.8	14.02	19.459		
3,800.0	3,727.2	3,727.9	3,659.1	13.3	13.2	16.65	-204.6	866.9	270.8	256.4	14.44	18.751		
3,900.0	3,824.2	3,827.1	3,755.9	13.8	13.6	19.20	-218.4	883.9	269.4	254.5	14.93	18.051		
4,000.0	3,921.3	3,926.4	3,852.7	14.2	14.1	21.78	-232.2	900.8	268.6	253.1	15.47	17.358		
4,100.0	4,018.3	4,025.6	3,949.5	14.7	14.5	24.37	-246.0	917.7	268.3	252.2	16.09	16.674		
4,104.0	4,022.2	4,029.6	3,953.4	14.7	14.5	24.48	-246.6	918.4	268.3	252.2	16.12	16.647		
4,200.0	4,115.4	4,124.9	4,046.3	15.2	14.9	26.96	-259.8	934.7	268.5	251.8	16.78	16.002		
4,300.0	4,212.4	4,224.1	4,143.1	15.6	15.3	29.54	-273.6	951.6	269.3	251.8	17.55	15.348		
4,400.0	4,309.5	4,323.4	4,239.9	16.1	15.8	32.10	-287.5	968.6	270.7	252.3	18.39	14.717		
4,500.0	4,406.5	4,422.6	4,336.8	16.5	16.2	34.63	-301.3	985.5	272.6	253.3	19.31	14.115		
4,600.0	4,503.6	4,521.9	4,433.6	17.0	16.6	37.12	-315.1	1,002.4	275.0	254.7	20.30	13.547		
4,700.0	4,600.6	4,621.1	4,530.4	17.5	17.0	39.57	-328.9	1,019.4	278.0	256.6	21.36	13.017		
4,800.0	4,697.7	4,720.4	4,627.2	17.9	17.4	41.95	-342.7	1,036.3	281.5	259.0	22.46	12.529		
4,900.0	4,794.8	4,819.6	4,724.0	18.4	17.9	44.28	-356.5	1,053.2	285.4	261.8	23.62	12.083		
5,000.0	4,891.8	4,918.9	4,820.8	18.9	18.3	46.54	-370.3	1,070.2	289.8	265.0	24.81	11.680		

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 Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - Ray Nelson 7-8-32 - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,100.0	4,988.9	5,018.1	4,917.6	19.3	18.7	48.73	-384.1	1,087.1	294.6	268.6	26.03	11.318		
5,200.0	5,085.9	5,117.4	5,014.5	19.8	19.1	50.85	-397.9	1,104.1	299.9	272.6	27.28	10.995		
5,300.0	5,183.0	5,216.6	5,111.3	20.3	19.6	52.89	-411.7	1,121.0	305.6	277.0	28.53	10.709		
5,400.0	5,280.0	5,315.9	5,208.1	20.7	20.0	54.86	-425.5	1,137.9	311.6	281.8	29.80	10.457		
5,500.0	5,377.1	5,415.1	5,304.9	21.2	20.4	56.75	-439.3	1,154.9	318.0	286.9	31.06	10.237		
5,600.0	5,474.1	5,514.4	5,401.7	21.7	20.8	58.57	-453.1	1,171.8	324.7	292.4	32.33	10.044		
5,700.0	5,571.2	5,613.6	5,498.5	22.1	21.3	60.31	-467.0	1,188.8	331.8	298.2	33.59	9.878		
5,800.0	5,668.2	5,712.9	5,595.3	22.6	21.7	61.98	-480.8	1,205.7	339.1	304.3	34.84	9.733		
5,900.0	5,765.3	5,812.1	5,692.1	23.0	22.1	63.57	-494.6	1,222.6	346.7	310.6	36.08	9.610		
6,000.0	5,862.3	5,913.6	5,791.2	23.5	22.5	65.14	-508.6	1,239.9	354.5	317.2	37.33	9.498		
6,100.0	5,959.4	6,023.9	5,899.4	24.0	22.9	67.05	-522.1	1,256.4	360.5	321.8	38.68	9.319		
6,200.0	6,056.4	6,133.9	6,008.0	24.4	23.2	69.29	-533.0	1,269.7	363.8	323.7	40.12	9.068		
6,300.0	6,153.5	6,243.3	6,116.6	24.9	23.5	71.92	-541.1	1,279.7	364.8	323.2	41.63	8.764		
6,400.0	6,250.6	6,351.7	6,224.7	25.4	23.7	74.94	-546.6	1,286.5	363.7	320.5	43.17	8.424		
6,500.0	6,347.6	6,459.0	6,331.9	25.8	23.8	78.41	-549.5	1,290.0	361.0	316.3	44.73	8.070		
6,600.0	6,444.7	6,561.8	6,434.7	26.3	23.9	82.22	-550.0	1,290.6	357.4	311.1	46.24	7.729		
6,700.0	6,541.7	6,658.8	6,531.7	26.8	24.0	85.96	-550.0	1,290.6	354.8	307.2	47.59	7.456		
6,800.0	6,638.8	6,755.9	6,628.8	27.2	24.1	89.74	-550.0	1,290.6	353.9	305.1	48.79	7.253		
6,806.8	6,645.4	6,762.5	6,635.4	27.3	24.1	90.00	-550.0	1,290.6	353.9	305.0	48.87	7.242		
6,900.0	6,735.8	6,852.9	6,725.8	27.7	24.2	93.52	-550.0	1,290.6	354.6	304.8	49.84	7.115		
7,000.0	6,832.9	6,950.0	6,822.9	28.2	24.2	97.27	-550.0	1,290.6	356.9	306.2	50.71	7.038		
7,100.0	6,929.9	7,047.0	6,919.9	28.6	24.3	100.00	-550.0	1,290.6	359.7	308.2	51.50	6.984		
7,200.0	7,025.1	7,142.2	7,015.1	29.1	24.4	102.71	-550.0	1,290.6	351.1	299.7	51.47	6.823		
7,300.0	7,115.7	7,232.8	7,105.7	29.7	24.5	104.99	-550.0	1,290.6	330.0	279.9	50.11	6.586		
7,400.0	7,198.9	7,316.0	7,188.9	30.2	24.6	106.45	-550.0	1,290.6	299.7	252.3	47.46	6.315		
7,500.0	7,272.2	7,389.3	7,262.2	30.8	24.6	107.03	-550.0	1,290.6	266.4	222.5	43.85	6.075		
7,600.0	7,333.4	7,450.5	7,323.4	31.5	24.7	107.09	-550.0	1,290.6	240.1	199.8	40.25	5.965 SF		
7,670.4	7,368.2	7,485.3	7,358.2	32.0	24.7	100.00	-550.0	1,290.6	233.3	194.8	38.48	6.063 CC, ES		
7,700.0	7,380.5	7,497.7	7,370.5	32.2	24.7	92.27	-550.0	1,290.6	234.6	196.6	37.99	6.176		
7,800.0	7,412.3	7,529.4	7,402.3	32.9	24.8	96.11	-550.0	1,290.6	259.6	222.0	37.62	6.899		
7,900.0	7,427.6	7,544.7	7,417.6	33.7	24.8	93.19	-550.0	1,290.6	311.9	273.5	38.34	8.134		
8,000.0	7,429.0	7,546.1	7,419.0	34.5	24.8	90.00	-550.0	1,290.6	381.7	342.5	39.24	9.728		
8,100.0	7,429.0	7,546.1	7,419.0	35.3	24.8	90.00	-550.0	1,290.6	462.6	421.9	40.66	11.376		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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/Hwy 52) - RAY NELSON 8-8-32 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 70-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	61.57	200.4	370.1	421.0					
100.0	100.0	86.2	86.2	0.1	0.1	61.57	200.5	370.5	421.3	421.0	0.27	1,542.592		
200.0	200.0	182.0	181.9	0.3	0.3	61.63	200.7	371.7	422.5	421.9	0.62	685.196		
300.0	300.0	278.0	277.9	0.5	0.5	61.98	199.5	374.9	424.8	423.9	0.96	440.726		
400.0	400.0	368.6	368.3	0.7	0.7	62.64	196.8	380.3	428.8	427.4	1.31	327.343		
500.0	500.0	461.8	461.1	0.8	0.9	63.62	192.8	388.7	434.8	433.2	1.67	260.304		
600.0	600.0	554.8	553.3	1.0	1.2	64.89	186.9	398.9	442.1	440.0	2.04	216.225		
700.0	700.0	643.5	640.8	1.2	1.4	66.36	180.1	411.3	451.7	449.2	2.43	185.621		
800.0	800.0	731.6	727.2	1.4	1.8	-23.91	171.7	426.3	463.5	460.5	2.94	157.506		
900.0	899.9	818.4	812.0	1.5	2.1	-22.26	163.4	443.3	475.3	471.9	3.37	140.895		
1,000.0	999.7	908.8	899.8	1.7	2.5	-20.74	155.2	462.9	486.4	482.6	3.82	127.400		
1,100.0	1,099.1	999.0	987.0	2.0	3.0	-19.20	145.6	484.1	496.0	491.7	4.29	115.749		
7,500.0	7,272.2	7,562.8	7,266.0	30.8	34.7	-68.53	-534.5	1,973.7	498.4	466.1	32.27	15.444		
7,600.0	7,333.4	7,623.3	7,326.5	31.5	34.7	-80.21	-533.9	1,973.4	465.4	428.5	36.94	12.601		
7,700.0	7,380.5	7,669.7	7,372.9	32.2	34.7	-88.62	-533.5	1,973.1	448.1	408.8	39.32	11.397		
7,729.2	7,391.4	7,680.4	7,383.6	32.4	34.7	-90.30	-533.5	1,973.1	447.1	407.6	39.55	11.305 ES, SF		
7,800.0	7,412.3	7,700.8	7,404.0	32.9	34.7	-92.74	-533.3	1,973.0	453.3	413.9	39.44	11.495		
7,900.0	7,427.6	7,715.6	7,418.8	33.7	34.7	-91.96	-533.2	1,972.9	483.2	444.5	38.75	12.469		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Hwy 52 4G-32H-O268
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Reference Site:</b>	S32-T2N-R68W (File/Hwy 52)	<b>MD Reference:</b>	WELL @ 5004.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Hwy 52 4G-32H-O268	<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 @ 5004.0ft (Original Well Elev)

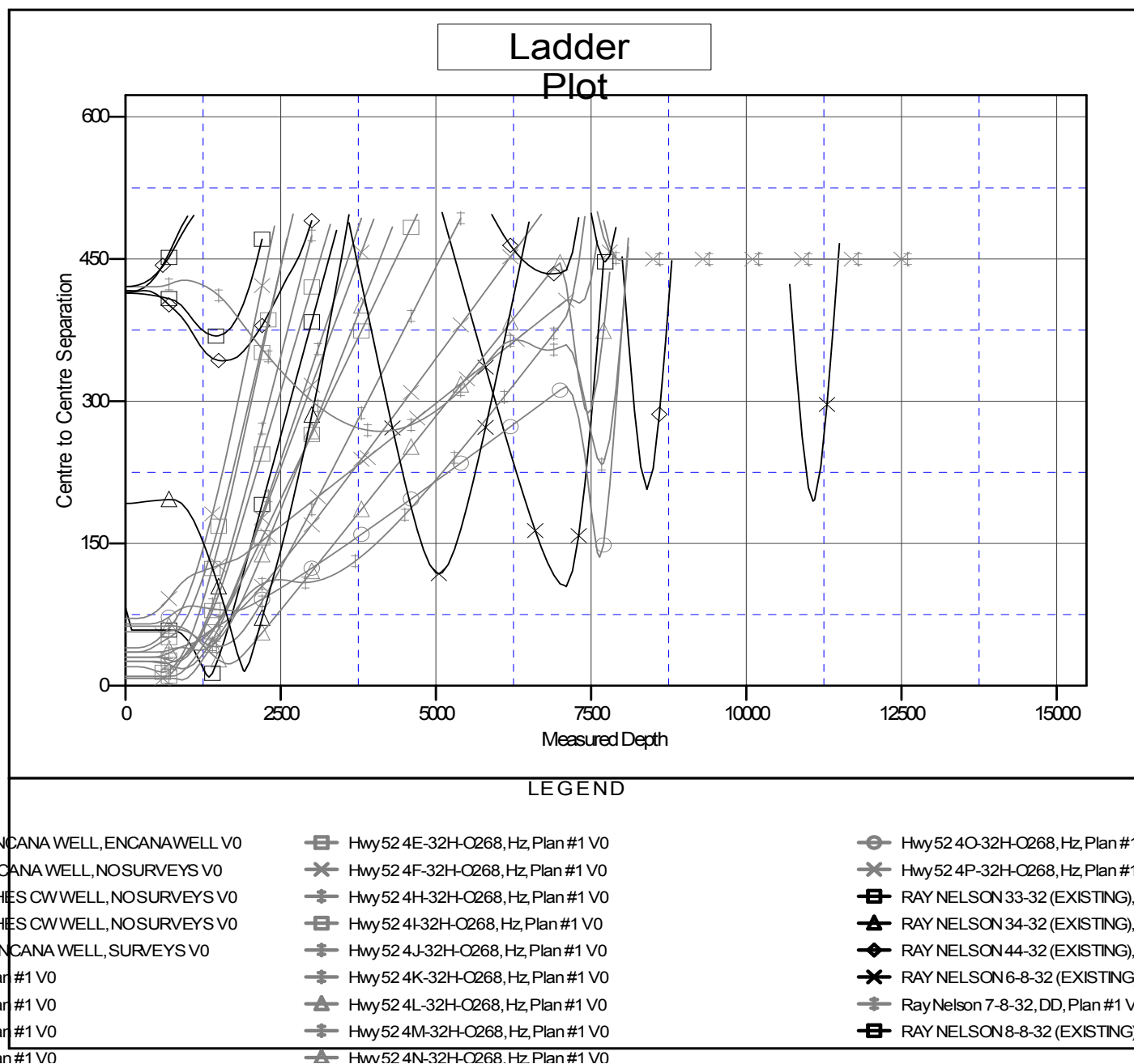
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Hwy 52 4G-32H-O268

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.31°



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