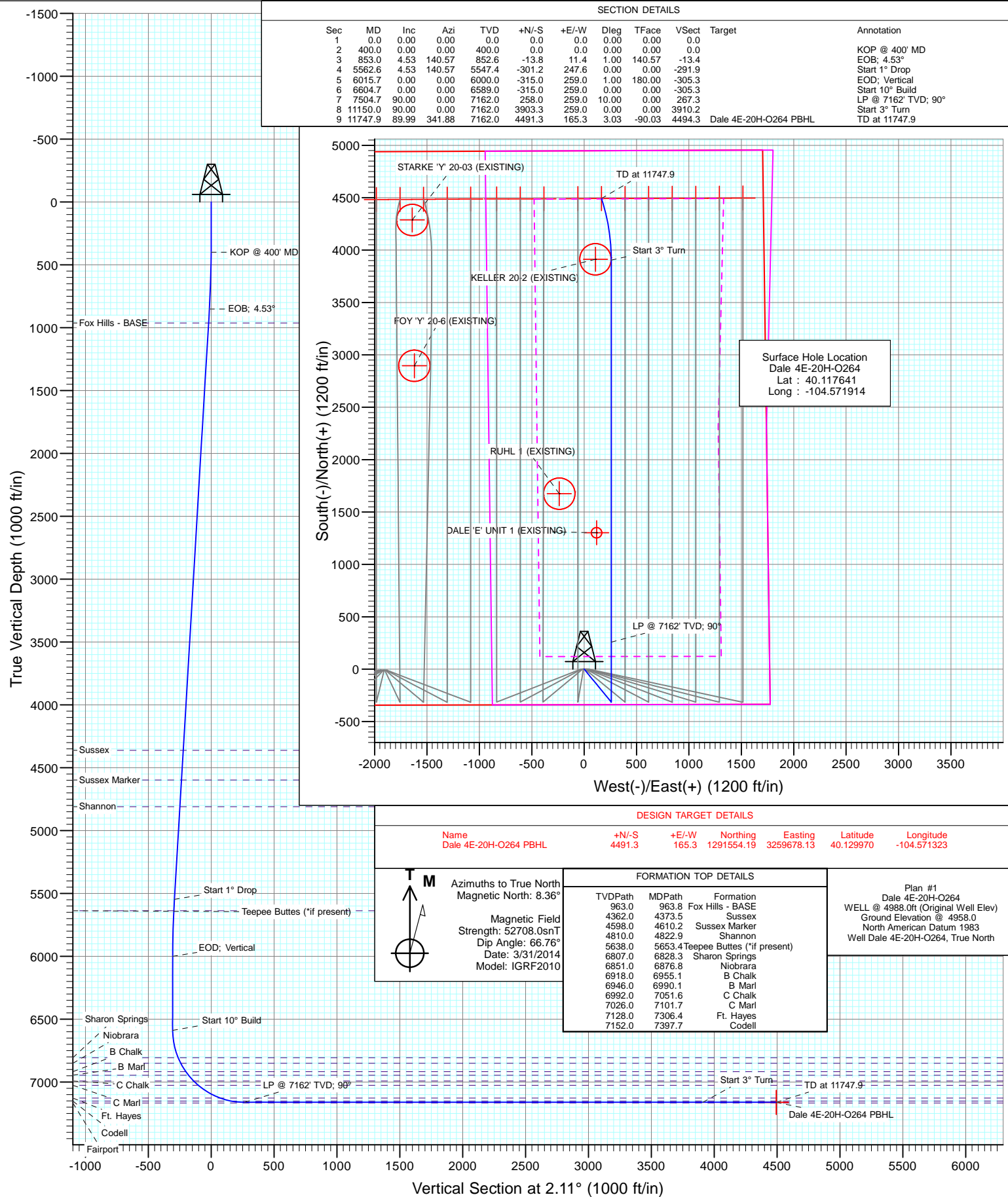




Project: DJ Wattenberg  
Site: S20-T2N-R64W (Dale)  
Well: Dale 4E-20H-O264  
Wellbore: HZ  
Design: Plan #1





## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** DJ Wattenberg  
**Site:** S20-T2N-R64W (Dale)  
**Well:** Dale 4E-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4E-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** DJ Wattenberg

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

**Site** S20-T2N-R64W (Dale)

**Site Position:** Northing: 1,287,029.38 ft Latitude: 40.117609  
**From:** Lat/Long Easting: 3,257,598.23 ft Longitude: -104.578929  
**Position Uncertainty:** 0.0 ft Slot Radius: 13.200 in Grid Convergence: 0.60 °

**Well** Dale 4E-20H-O264

**Well Position** +N/-S 0.0 ft Northing: 1,287,061.45 ft Latitude: 40.117641  
+E/-W 0.0 ft Easting: 3,259,559.89 ft Longitude: -104.571914  
**Position Uncertainty** 0.0 ft Wellhead Elevation: ft Ground Level: 4,958.0 ft

**Wellbore** HZ

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/31/2014	8.36	66.76	52,708

**Design** Plan #1

### Audit Notes:

**Version:** Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	2.11

### Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
853.0	4.53	140.57	852.6	-13.8	11.4	1.00	1.00	0.00	140.57	
5,562.6	4.53	140.57	5,547.4	-301.2	247.6	0.00	0.00	0.00	0.00	
6,015.7	0.00	0.00	6,000.0	-315.0	259.0	1.00	-1.00	0.00	180.00	
6,604.7	0.00	0.00	6,589.0	-315.0	259.0	0.00	0.00	0.00	0.00	
7,504.7	90.00	0.00	7,162.0	258.0	259.0	10.00	10.00	0.00	0.00	
11,150.0	90.00	0.00	7,162.0	3,903.3	259.0	0.00	0.00	0.00	0.00	
11,747.9	89.99	341.88	7,162.0	4,491.3	165.3	3.03	0.00	-3.03	-90.03	Dale 4E-20H-O264 PI



## Planning Report

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**Well:** Dale 4E-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4E-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400' MD
500.0	1.00	140.57	500.0	-0.7	0.6	-0.7	1.00	1.00	
600.0	2.00	140.57	600.0	-2.7	2.2	-2.6	1.00	1.00	
700.0	3.00	140.57	699.9	-6.1	5.0	-5.9	1.00	1.00	
800.0	4.00	140.57	799.7	-10.8	8.9	-10.4	1.00	1.00	
853.0	4.53	140.57	852.6	-13.8	11.4	-13.4	1.00	1.00	EOB; 4.53°
900.0	4.53	140.57	899.4	-16.7	13.7	-16.2	0.00	0.00	
963.8	4.53	140.57	963.0	-20.6	16.9	-20.0	0.00	0.00	Fox Hills - BASE
1,000.0	4.53	140.57	999.1	-22.8	18.7	-22.1	0.00	0.00	
1,100.0	4.53	140.57	1,098.8	-28.9	23.8	-28.0	0.00	0.00	
1,200.0	4.53	140.57	1,198.4	-35.0	28.8	-33.9	0.00	0.00	
1,300.0	4.53	140.57	1,298.1	-41.1	33.8	-39.8	0.00	0.00	
1,400.0	4.53	140.57	1,397.8	-47.2	38.8	-45.7	0.00	0.00	
1,500.0	4.53	140.57	1,497.5	-53.3	43.8	-51.7	0.00	0.00	
1,600.0	4.53	140.57	1,597.2	-59.4	48.8	-57.6	0.00	0.00	
1,700.0	4.53	140.57	1,696.9	-65.5	53.9	-63.5	0.00	0.00	
1,800.0	4.53	140.57	1,796.6	-71.6	58.9	-69.4	0.00	0.00	
1,900.0	4.53	140.57	1,896.3	-77.7	63.9	-75.3	0.00	0.00	
2,000.0	4.53	140.57	1,995.9	-83.8	68.9	-81.2	0.00	0.00	
2,100.0	4.53	140.57	2,095.6	-89.9	73.9	-87.1	0.00	0.00	
2,200.0	4.53	140.57	2,195.3	-96.0	78.9	-93.0	0.00	0.00	
2,300.0	4.53	140.57	2,295.0	-102.1	84.0	-99.0	0.00	0.00	
2,400.0	4.53	140.57	2,394.7	-108.2	89.0	-104.9	0.00	0.00	
2,500.0	4.53	140.57	2,494.4	-114.3	94.0	-110.8	0.00	0.00	
2,600.0	4.53	140.57	2,594.1	-120.4	99.0	-116.7	0.00	0.00	
2,700.0	4.53	140.57	2,693.8	-126.5	104.0	-122.6	0.00	0.00	
2,800.0	4.53	140.57	2,793.4	-132.6	109.0	-128.5	0.00	0.00	
2,900.0	4.53	140.57	2,893.1	-138.7	114.1	-134.4	0.00	0.00	
3,000.0	4.53	140.57	2,992.8	-144.8	119.1	-140.3	0.00	0.00	
3,100.0	4.53	140.57	3,092.5	-150.9	124.1	-146.3	0.00	0.00	
3,200.0	4.53	140.57	3,192.2	-157.0	129.1	-152.2	0.00	0.00	
3,300.0	4.53	140.57	3,291.9	-163.1	134.1	-158.1	0.00	0.00	
3,400.0	4.53	140.57	3,391.6	-169.2	139.1	-164.0	0.00	0.00	
3,500.0	4.53	140.57	3,491.3	-175.3	144.2	-169.9	0.00	0.00	
3,600.0	4.53	140.57	3,590.9	-181.4	149.2	-175.8	0.00	0.00	
3,700.0	4.53	140.57	3,690.6	-187.5	154.2	-181.7	0.00	0.00	
3,800.0	4.53	140.57	3,790.3	-193.6	159.2	-187.6	0.00	0.00	
3,900.0	4.53	140.57	3,890.0	-199.7	164.2	-193.6	0.00	0.00	
4,000.0	4.53	140.57	3,989.7	-205.8	169.2	-199.5	0.00	0.00	
4,100.0	4.53	140.57	4,089.4	-211.9	174.3	-205.4	0.00	0.00	
4,200.0	4.53	140.57	4,189.1	-218.0	179.3	-211.3	0.00	0.00	
4,300.0	4.53	140.57	4,288.8	-224.1	184.3	-217.2	0.00	0.00	
4,373.5	4.53	140.57	4,362.0	-228.6	188.0	-221.6	0.00	0.00	Sussex
4,400.0	4.53	140.57	4,388.4	-230.2	189.3	-223.1	0.00	0.00	
4,500.0	4.53	140.57	4,488.1	-236.3	194.3	-229.0	0.00	0.00	
4,600.0	4.53	140.57	4,587.8	-242.4	199.3	-234.9	0.00	0.00	
4,610.2	4.53	140.57	4,598.0	-243.1	199.9	-235.6	0.00	0.00	Sussex Marker
4,700.0	4.53	140.57	4,687.5	-248.5	204.4	-240.9	0.00	0.00	



## Planning Report

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**Well:** Dale 4E-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4E-20H-O264  
**TVD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**MD Reference:** WELL @ 4988.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,800.0	4.53	140.57	4,787.2	-254.6	209.4	-246.8	0.00	0.00	
4,822.9	4.53	140.57	4,810.0	-256.0	210.5	-248.1	0.00	0.00	Shannon
4,900.0	4.53	140.57	4,886.9	-260.7	214.4	-252.7	0.00	0.00	
5,000.0	4.53	140.57	4,986.6	-266.8	219.4	-258.6	0.00	0.00	
5,100.0	4.53	140.57	5,086.3	-272.9	224.4	-264.5	0.00	0.00	
5,200.0	4.53	140.57	5,185.9	-279.0	229.4	-270.4	0.00	0.00	
5,300.0	4.53	140.57	5,285.6	-285.1	234.5	-276.3	0.00	0.00	
5,400.0	4.53	140.57	5,385.3	-291.3	239.5	-282.2	0.00	0.00	
5,500.0	4.53	140.57	5,485.0	-297.4	244.5	-288.2	0.00	0.00	
5,562.6	4.53	140.57	5,547.4	-301.2	247.6	-291.9	0.00	0.00	Start 1° Drop
5,600.0	4.16	140.57	5,584.7	-303.4	249.4	-294.0	1.00	-1.00	
5,653.4	3.62	140.57	5,638.0	-306.2	251.7	-296.7	1.00	-1.00	Teepee Buttes (*if present)
5,700.0	3.16	140.57	5,684.5	-308.3	253.5	-298.8	1.00	-1.00	
5,800.0	2.16	140.57	5,784.4	-311.9	256.4	-302.2	1.00	-1.00	
5,900.0	1.16	140.57	5,884.3	-314.1	258.3	-304.4	1.00	-1.00	
6,000.0	0.16	140.57	5,984.3	-315.0	259.0	-305.2	1.00	-1.00	
6,015.7	0.00	0.00	6,000.0	-315.0	259.0	-305.3	1.00	-1.00	EOD; Vertical
6,100.0	0.00	0.00	6,084.3	-315.0	259.0	-305.3	0.00	0.00	
6,200.0	0.00	0.00	6,184.3	-315.0	259.0	-305.3	0.00	0.00	
6,300.0	0.00	0.00	6,284.3	-315.0	259.0	-305.3	0.00	0.00	
6,400.0	0.00	0.00	6,384.3	-315.0	259.0	-305.3	0.00	0.00	
6,500.0	0.00	0.00	6,484.3	-315.0	259.0	-305.3	0.00	0.00	
6,604.7	0.00	0.00	6,589.0	-315.0	259.0	-305.3	0.00	0.00	Start 10° Build
6,650.0	4.53	0.00	6,634.3	-313.2	259.0	-303.5	10.00	10.00	
6,700.0	9.53	0.00	6,683.9	-307.1	259.0	-297.4	10.00	10.00	
6,750.0	14.53	0.00	6,732.8	-296.7	259.0	-286.9	10.00	10.00	
6,800.0	19.53	0.00	6,780.6	-282.0	259.0	-272.3	10.00	10.00	
6,828.3	22.36	0.00	6,807.0	-271.9	259.0	-262.2	10.00	10.00	Sharon Springs
6,850.0	24.53	0.00	6,826.9	-263.3	259.0	-253.6	10.00	10.00	
6,876.8	27.21	0.00	6,851.0	-251.6	259.0	-241.9	10.00	10.00	Niobrara
6,900.0	29.53	0.00	6,871.4	-240.6	259.0	-230.9	10.00	10.00	
6,950.0	34.53	0.00	6,913.8	-214.0	259.0	-204.4	10.00	10.00	
6,955.1	35.04	0.00	6,918.0	-211.1	259.0	-201.5	10.00	10.00	B Chalk
6,990.1	38.54	0.00	6,946.0	-190.2	259.0	-180.5	10.00	10.00	B Marl
7,000.0	39.53	0.00	6,953.7	-183.9	259.0	-174.3	10.00	10.00	
7,050.0	44.53	0.00	6,990.8	-150.5	259.0	-140.8	10.00	10.00	
7,051.6	44.70	0.00	6,992.0	-149.3	259.0	-139.7	10.00	10.00	C Chalk
7,100.0	49.53	0.00	7,024.9	-113.9	259.0	-104.3	10.00	10.00	
7,101.7	49.70	0.00	7,026.0	-112.6	259.0	-103.0	10.00	10.00	C Marl
7,150.0	54.53	0.00	7,055.7	-74.5	259.0	-64.9	10.00	10.00	
7,200.0	59.53	0.00	7,082.9	-32.5	259.0	-23.0	10.00	10.00	
7,250.0	64.53	0.00	7,106.3	11.6	259.0	21.1	10.00	10.00	
7,300.0	69.53	0.00	7,125.8	57.6	259.0	67.1	10.00	10.00	
7,306.4	70.17	0.00	7,128.0	63.6	259.0	73.1	10.00	10.00	Ft. Hayes
7,350.0	74.53	0.00	7,141.2	105.2	259.0	114.6	10.00	10.00	
7,397.7	79.30	0.00	7,152.0	151.6	259.0	161.0	10.00	10.00	Codell
7,400.0	79.53	0.00	7,152.4	153.9	259.0	163.3	10.00	10.00	
7,450.0	84.53	0.00	7,159.4	203.4	259.0	212.8	10.00	10.00	
7,504.7	90.00	0.00	7,162.0	258.0	259.0	267.3	10.00	10.00	LP @ 7162' TVD; 90°
7,600.0	90.00	0.00	7,162.0	353.3	259.0	362.6	0.00	0.00	
7,700.0	90.00	0.00	7,162.0	453.3	259.0	462.5	0.00	0.00	
7,800.0	90.00	0.00	7,162.0	553.3	259.0	562.4	0.00	0.00	



## Planning Report

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**Survey Calculation Method:** Minimum Curvature

### 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
7,900.0	90.00	0.00	7,162.0	653.3	259.0	662.4	0.00	0.00	
8,000.0	90.00	0.00	7,162.0	753.3	259.0	762.3	0.00	0.00	
8,100.0	90.00	0.00	7,162.0	853.3	259.0	862.2	0.00	0.00	
8,200.0	90.00	0.00	7,162.0	953.3	259.0	962.2	0.00	0.00	
8,300.0	90.00	0.00	7,162.0	1,053.3	259.0	1,062.1	0.00	0.00	
8,400.0	90.00	0.00	7,162.0	1,153.3	259.0	1,162.0	0.00	0.00	
8,500.0	90.00	0.00	7,162.0	1,253.3	259.0	1,262.0	0.00	0.00	
8,600.0	90.00	0.00	7,162.0	1,353.3	259.0	1,361.9	0.00	0.00	
8,700.0	90.00	0.00	7,162.0	1,453.3	259.0	1,461.8	0.00	0.00	
8,800.0	90.00	0.00	7,162.0	1,553.3	259.0	1,561.8	0.00	0.00	
8,900.0	90.00	0.00	7,162.0	1,653.3	259.0	1,661.7	0.00	0.00	
9,000.0	90.00	0.00	7,162.0	1,753.3	259.0	1,761.6	0.00	0.00	
9,100.0	90.00	0.00	7,162.0	1,853.3	259.0	1,861.6	0.00	0.00	
9,200.0	90.00	0.00	7,162.0	1,953.3	259.0	1,961.5	0.00	0.00	
9,300.0	90.00	0.00	7,162.0	2,053.3	259.0	2,061.4	0.00	0.00	
9,400.0	90.00	0.00	7,162.0	2,153.3	259.0	2,161.4	0.00	0.00	
9,500.0	90.00	0.00	7,162.0	2,253.3	259.0	2,261.3	0.00	0.00	
9,600.0	90.00	0.00	7,162.0	2,353.3	259.0	2,361.2	0.00	0.00	
9,700.0	90.00	0.00	7,162.0	2,453.3	259.0	2,461.2	0.00	0.00	
9,800.0	90.00	0.00	7,162.0	2,553.3	259.0	2,561.1	0.00	0.00	
9,900.0	90.00	0.00	7,162.0	2,653.3	259.0	2,661.0	0.00	0.00	
10,000.0	90.00	0.00	7,162.0	2,753.3	259.0	2,761.0	0.00	0.00	
10,100.0	90.00	0.00	7,162.0	2,853.3	259.0	2,860.9	0.00	0.00	
10,200.0	90.00	0.00	7,162.0	2,953.3	259.0	2,960.8	0.00	0.00	
10,300.0	90.00	0.00	7,162.0	3,053.3	259.0	3,060.8	0.00	0.00	
10,400.0	90.00	0.00	7,162.0	3,153.3	259.0	3,160.7	0.00	0.00	
10,500.0	90.00	0.00	7,162.0	3,253.3	259.0	3,260.6	0.00	0.00	
10,600.0	90.00	0.00	7,162.0	3,353.3	259.0	3,360.6	0.00	0.00	
10,700.0	90.00	0.00	7,162.0	3,453.3	259.0	3,460.5	0.00	0.00	
10,800.0	90.00	0.00	7,162.0	3,553.3	259.0	3,560.4	0.00	0.00	
10,900.0	90.00	0.00	7,162.0	3,653.3	259.0	3,660.4	0.00	0.00	
11,000.0	90.00	0.00	7,162.0	3,753.3	259.0	3,760.3	0.00	0.00	
11,100.0	90.00	0.00	7,162.0	3,853.3	259.0	3,860.2	0.00	0.00	
11,150.0	90.00	0.00	7,162.0	3,903.3	259.0	3,910.2	0.00	0.00	Start 3° Turn
11,200.0	90.00	358.48	7,162.0	3,953.3	258.3	3,960.1	3.03	0.00	
11,300.0	90.00	355.45	7,162.0	4,053.1	253.1	4,059.7	3.03	0.00	
11,400.0	90.00	352.42	7,162.0	4,152.6	242.5	4,158.7	3.03	0.00	
11,500.0	90.00	349.39	7,162.0	4,251.3	226.7	4,256.8	3.03	0.00	
11,600.0	89.99	346.36	7,162.0	4,349.1	205.7	4,353.7	3.03	0.00	
11,700.0	89.99	343.33	7,162.0	4,445.6	179.6	4,449.2	3.03	0.00	
11,747.9	89.99	341.88	7,162.0	4,491.3	165.3	4,494.3	3.03	0.00	TD at 11747.9

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Dale 4E-20H-O264 PBH	0.00	0.00	7,162.0	4,491.3	165.3	1,291,554.19	3,259,678.13	40.129970	-104.571323
- plan hits target center									
- Point									



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site:</b>	S20-T2N-R64W (Dale)	<b>North Reference:</b>	True
<b>Well:</b>	Dale 4E-20H-O264	<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 (°)	
963.8	963.0	Fox Hills - BASE				
4,373.5	4,362.0	Sussex				
4,610.2	4,598.0	Sussex Marker				
4,822.9	4,810.0	Shannon				
5,653.4	5,638.0	Teepee Buttes (*if present)				
6,828.3	6,807.0	Sharon Springs				
6,876.8	6,851.0	Niobrara				
6,955.1	6,918.0	B Chalk				
6,990.1	6,946.0	B Marl				
7,051.6	6,992.0	C Chalk				
7,101.7	7,026.0	C Marl				
7,306.4	7,128.0	Ft. Hayes				
7,397.7	7,152.0	Codell				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400' MD
853.0	852.6	-13.8	11.4	EOB; 4.53°
5,562.6	5,547.4	-301.2	247.6	Start 1° Drop
6,015.7	6,000.0	-315.0	259.0	EOD; Vertical
6,604.7	6,589.0	-315.0	259.0	Start 10° Build
7,504.7	7,162.0	258.0	259.0	LP @ 7162' TVD; 90°
11,150.0	7,162.0	3,903.3	259.0	Start 3° Turn
11,747.9	7,162.0	4,491.3	165.3	TD at 11747.9



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

**DJ Wattenberg**

**S20-T2N-R64W (Dale)**

**Dale 4E-20H-O264**

**HZ**

**Plan #1**

## **Anticollision Report**

**02 April, 2014**



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,550.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	4/2/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,747.9	Plan #1 (HZ)	Geolink MWD	Geolink MWD	





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	HZ	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S20-T2N-R64W (Dale)						
DALE 1 (EXISTING) - EXISTING - NOBLE WELL						Out of range
Dale 3A-20H-N264 - HZ - Plan #1						Out of range
Dale 3B-20H-N264 - HZ - Plan #1						Out of range
Dale 3C-20H-N264 - HZ - Plan #1						Out of range
Dale 3D-20H-N264 - HZ - Plan #1						Out of range
Dale 3E-20H-N264 - HZ - Plan #1						Out of range
Dale 3F-20H-N264 - HZ - Plan #1						Out of range
Dale 3G-20H-N264 - HZ - Plan #1						Out of range
Dale 3H-20H-N264 - HZ - Plan #1						Out of range
Dale 3I-20H-N264 - HZ - Plan #1						Out of range
Dale 3J-20H-N264 - HZ - Plan #1						Out of range
Dale 3K-20H-N264 - HZ - Plan #1	11,747.9	11,773.8	1,472.5	1,321.0	9.720	CC, ES, SF
Dale 3L-20H-N264 - HZ - Plan #1	11,747.9	11,572.7	1,267.9	1,120.3	8.589	CC, ES, SF
Dale 4A-20H-O264 - HZ - Plan #1	166.3	167.3	29.9	29.4	62.658	CC
Dale 4A-20H-O264 - HZ - Plan #1	200.0	201.0	29.9	29.3	50.284	ES
Dale 4A-20H-O264 - HZ - Plan #1	11,747.9	11,645.9	1,010.1	853.2	6.439	SF
Dale 4B-20H-O264 - HZ - Plan #1	232.2	233.2	22.4	21.7	31.632	CC, ES
Dale 4B-20H-O264 - HZ - Plan #1	11,747.9	11,752.2	775.2	617.7	4.923	SF
Dale 4C-20H-O264 - HZ - Plan #1	300.0	300.0	14.8	13.9	15.733	CC, ES
Dale 4C-20H-O264 - HZ - Plan #1	11,747.9	11,508.6	597.3	454.1	4.169	SF
Dale 4D-20H-O264 - HZ - Plan #1	339.7	339.7	7.3	6.2	6.737	CC
Dale 4D-20H-O264 - HZ - Plan #1	400.0	400.0	7.3	6.0	5.660	ES
Dale 4D-20H-O264 - HZ - Plan #1	11,747.9	11,590.6	265.1	134.5	2.029	SF
Dale 4F-20H-O264 - HZ - Plan #1	594.8	594.7	7.0	5.0	3.545	CC
Dale 4F-20H-O264 - HZ - Plan #1	700.0	699.8	7.3	4.9	3.080	ES
Dale 4F-20H-O264 - HZ - Plan #1	853.0	852.7	8.6	5.7	2.915	SF
Dale 4G-20H-O264 - HZ - Plan #1	400.0	400.0	15.1	13.8	11.693	CC
Dale 4G-20H-O264 - HZ - Plan #1	500.0	499.8	15.3	13.7	9.339	ES
Dale 4G-20H-O264 - HZ - Plan #1	11,300.0	11,188.2	388.6	251.9	2.842	SF
Dale 4H-20H-O264 - HZ - Plan #1	333.4	333.4	22.7	21.6	21.392	CC
Dale 4H-20H-O264 - HZ - Plan #1	400.0	399.8	22.9	21.6	17.701	ES
Dale 4H-20H-O264 - HZ - Plan #1	11,300.0	11,361.1	587.2	441.4	4.027	SF
Dale 4I-20H-O264 - HZ - Plan #1	300.0	300.0	30.2	29.3	32.048	CC, ES
Dale 4I-20H-O264 - HZ - Plan #1	11,300.0	11,164.1	845.1	704.9	6.029	SF
Dale 4J-20H-O264 - HZ - Plan #1	234.7	233.7	37.5	36.8	52.589	CC, ES
Dale 4J-20H-O264 - HZ - Plan #1	11,300.0	11,298.3	1,046.7	902.6	7.266	SF
Dale 4K-20H-O264 - HZ - Plan #1	200.0	199.0	45.0	44.4	76.104	CC, ES
Dale 4K-20H-O264 - HZ - Plan #1	11,300.0	11,494.5	1,262.2	1,117.2	8.703	SF
DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WE	8,548.7	7,099.0	141.0	101.1	3.533	CC, ES, SF
FOY 1 (EXISTING) - EXISTING - NOBLE WELL						Out of range
FOY 'Y' 20-6 (EXISTING) - EXISTING - NOBLE WELL						Out of range
KELLER 20-2 (EXISTING) - EXISTING - NOBLE WELL	11,159.5	7,068.0	151.6	67.9	1.811	CC, ES, SF
RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL	8,921.7	7,093.0	496.4	450.6	10.826	CC, ES
RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL	9,000.0	7,093.0	502.6	455.4	10.663	SF
STARKE 'Y' 20-03 (EXISTING) - EXISTING - NOBLE WE						Out of range



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 3K-20H-N264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
11,400.0	7,162.0	11,441.0	7,177.0	75.7	76.5	-90.00	4,152.7	-1,307.2	1,549.7	1,401.5	148.27	10.452		
11,500.0	7,162.0	11,539.7	7,177.0	77.3	78.2	-90.00	4,251.4	-1,307.2	1,533.9	1,384.2	149.77	10.242		
11,600.0	7,162.0	11,637.5	7,177.0	79.0	79.8	-90.00	4,349.2	-1,307.2	1,512.9	1,362.1	150.84	10.030		
11,700.0	7,162.0	11,734.0	7,177.0	80.7	81.5	-90.00	4,445.7	-1,307.2	1,486.8	1,335.3	151.46	9.817		
11,747.9	7,162.0	11,773.8	7,177.0	81.4	82.2	-90.00	4,485.5	-1,307.2	1,472.5	1,321.0	151.49	9.720	CC, ES, SF	



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 3L-20H-N264 - 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)				
3,500.0	3,491.3	3,773.9	3,733.0	7.3	11.5	128.93	-200.3	-1,386.6	1,547.7	1,533.4	14.21	108.918		
3,600.0	3,590.9	3,873.4	3,831.3	7.5	11.8	128.94	-205.9	-1,371.9	1,537.9	1,523.3	14.61	105.241		
3,700.0	3,690.6	3,972.9	3,929.6	7.7	12.1	128.95	-211.5	-1,357.3	1,528.2	1,513.2	15.02	101.761		
3,800.0	3,790.3	4,072.5	4,027.9	7.9	12.5	128.97	-217.1	-1,342.6	1,518.4	1,503.0	15.42	98.465		
3,900.0	3,890.0	4,172.0	4,126.1	8.2	12.8	128.98	-222.7	-1,328.0	1,508.7	1,492.9	15.82	95.337		
4,000.0	3,989.7	4,271.5	4,224.4	8.4	13.1	128.99	-228.3	-1,313.3	1,498.9	1,482.7	16.23	92.365		
4,100.0	4,089.4	4,371.0	4,322.7	8.6	13.4	129.01	-233.9	-1,298.7	1,489.2	1,472.6	16.63	89.538		
4,200.0	4,189.1	4,470.5	4,421.0	8.8	13.8	129.02	-239.5	-1,284.0	1,479.5	1,462.4	17.04	86.846		
4,300.0	4,288.8	4,570.1	4,519.3	9.1	14.1	129.04	-245.1	-1,269.4	1,469.7	1,452.3	17.44	84.278		
4,400.0	4,388.4	4,669.6	4,617.5	9.3	14.4	129.05	-250.6	-1,254.7	1,460.0	1,442.1	17.84	81.827		
4,500.0	4,488.1	4,769.1	4,715.8	9.5	14.7	129.07	-256.2	-1,240.1	1,450.2	1,432.0	18.25	79.484		
4,600.0	4,587.8	4,868.6	4,814.1	9.7	15.1	129.08	-261.8	-1,225.4	1,440.5	1,421.8	18.65	77.244		
4,700.0	4,687.5	4,968.2	4,912.4	9.9	15.4	129.10	-267.4	-1,210.8	1,430.7	1,411.7	19.05	75.098		
4,800.0	4,787.2	5,067.7	5,010.7	10.2	15.7	129.11	-273.0	-1,196.1	1,421.0	1,401.5	19.45	73.042		
4,900.0	4,886.9	5,167.2	5,108.9	10.4	16.0	129.13	-278.6	-1,181.5	1,411.3	1,391.4	19.86	71.069		
5,000.0	4,986.6	5,266.7	5,207.2	10.6	16.4	129.15	-284.2	-1,166.8	1,401.5	1,381.3	20.26	69.176		
5,100.0	5,086.3	5,366.3	5,305.5	10.8	16.7	129.16	-289.8	-1,152.2	1,391.8	1,371.1	20.66	67.357		
5,200.0	5,185.9	5,465.8	5,403.8	11.0	17.0	129.18	-295.4	-1,137.5	1,382.0	1,361.0	21.07	65.607		
5,300.0	5,285.6	5,565.3	5,502.1	11.3	17.3	129.19	-301.0	-1,122.9	1,372.3	1,350.8	21.47	63.924		
5,400.0	5,385.3	5,664.8	5,594.5	11.5	17.6	129.21	-306.6	-1,110.8	1,362.9	1,341.0	21.83	62.419		
5,500.0	5,485.0	5,717.9	5,653.0	11.7	17.8	129.25	-308.8	-1,102.2	1,355.4	1,333.3	22.16	61.155		
5,562.6	5,547.4	5,761.3	5,696.1	11.9	17.9	129.29	-310.6	-1,097.6	1,351.9	1,329.5	22.36	60.448		
5,600.0	5,584.7	5,800.0	5,734.7	11.9	18.0	129.31	-312.0	-1,094.0	1,350.2	1,327.7	22.50	60.001		
5,700.0	5,684.5	5,856.6	5,791.1	12.1	18.1	129.32	-313.6	-1,089.6	1,346.2	1,323.5	22.78	59.103		
5,800.0	5,784.4	5,926.1	5,860.5	12.3	18.2	129.34	-315.1	-1,085.7	1,343.5	1,320.4	23.06	58.264		
5,900.0	5,884.3	6,000.0	5,934.3	12.5	18.3	129.36	-316.1	-1,083.2	1,341.9	1,318.6	23.33	57.516		
5,985.5	5,969.8	6,055.2	5,989.5	12.6	18.4	129.37	-316.4	-1,082.5	1,341.5	1,317.9	23.54	56.989		
6,000.0	5,984.3	6,065.7	6,000.0	12.6	18.4	129.37	-316.4	-1,082.5	1,341.5	1,317.9	23.58	56.900		
6,015.7	6,000.0	6,080.7	6,015.0	12.6	18.4	-90.06	-316.4	-1,082.5	1,341.5	1,317.9	23.62	56.790		
6,100.0	6,084.3	6,165.1	6,099.3	12.8	18.5	-90.06	-316.4	-1,082.5	1,341.5	1,317.6	23.88	56.167		
6,200.0	6,184.3	6,265.1	6,199.3	12.9	18.6	-90.06	-316.4	-1,082.5	1,341.5	1,317.3	24.20	55.443		
6,300.0	6,284.3	6,365.1	6,299.3	13.1	18.7	-90.06	-316.4	-1,082.5	1,341.5	1,317.0	24.51	54.735		
6,400.0	6,384.3	6,465.1	6,399.4	13.2	18.8	-90.04	-315.9	-1,082.5	1,341.5	1,316.7	24.81	54.075		
6,421.9	6,406.3	6,487.0	6,421.2	13.2	18.8	-89.99	-314.7	-1,082.5	1,341.5	1,316.7	24.85	53.976		
6,500.0	6,484.3	6,563.6	6,496.9	13.4	18.8	-89.52	-303.7	-1,082.5	1,341.6	1,316.6	24.93	53.807		
6,604.7	6,589.0	6,659.4	6,588.5	13.5	18.8	-88.33	-275.9	-1,082.5	1,342.2	1,317.3	24.91	53.890		
6,650.0	6,634.3	6,700.0	6,625.7	13.6	18.7	-87.64	-259.6	-1,082.5	1,342.8	1,317.9	24.84	54.056		
6,700.0	6,683.9	6,740.1	6,661.2	13.6	18.7	-86.95	-240.9	-1,082.5	1,343.7	1,318.9	24.76	54.270		
6,750.0	6,732.8	6,781.1	6,696.0	13.6	18.7	-86.25	-219.3	-1,082.5	1,344.7	1,320.1	24.67	54.518		
6,800.0	6,780.6	6,821.3	6,728.6	13.5	18.6	-85.58	-195.8	-1,082.5	1,345.9	1,321.4	24.57	54.770		
6,850.0	6,826.9	6,860.9	6,759.0	13.5	18.6	-84.94	-170.5	-1,082.5	1,347.3	1,322.8	24.49	55.007		
6,900.0	6,871.4	6,900.0	6,787.3	13.4	18.6	-84.32	-143.4	-1,082.5	1,348.7	1,324.2	24.43	55.213		
6,950.0	6,913.8	6,938.2	6,813.0	13.4	18.6	-83.74	-115.2	-1,082.5	1,350.1	1,325.7	24.39	55.344		
7,000.0	6,953.7	6,976.1	6,836.6	13.3	18.6	-83.20	-85.5	-1,082.5	1,351.6	1,327.2	24.40	55.402		
7,050.0	6,990.8	7,013.6	6,858.0	13.3	18.6	-82.70	-54.7	-1,082.5	1,353.0	1,328.6	24.45	55.339		
7,100.0	7,024.9	7,050.0	6,876.8	13.2	18.6	-82.25	-23.6	-1,082.5	1,354.4	1,329.9	24.50	55.275		
7,150.0	7,055.7	7,087.7	6,894.1	13.3	18.7	-81.83	9.8	-1,082.5	1,355.7	1,331.0	24.63	55.031		
7,200.0	7,082.9	7,124.3	6,908.8	13.3	18.8	-81.46	43.4	-1,082.5	1,356.9	1,332.0	24.83	54.650		
7,250.0	7,106.3	7,160.6	6,921.3	13.4	18.9	-81.15	77.5	-1,082.5	1,357.9	1,332.8	25.07	54.159		
7,300.0	7,125.8	7,200.0	6,932.3	13.5	19.0	-80.87	115.3	-1,082.5	1,358.8	1,333.4	25.39	53.511		
7,350.0	7,141.2	7,232.9	6,939.5	13.7	19.1	-80.68	147.4	-1,082.5	1,359.5	1,333.8	25.75	52.806		
7,400.0	7,152.4	7,268.8	6,945.2	14.0	19.3	-80.53	182.8	-1,082.5	1,360.1	1,333.9	26.17	51.964		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 3L-20H-N264 - 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)				
7,450.0	7,159.4	7,300.0	6,948.4	14.3	19.4	-80.44	213.9	-1,082.5	1,360.4	1,333.8	26.62	51.105		
7,504.7	7,162.0	7,344.2	6,950.0	14.7	19.6	-80.40	258.1	-1,082.5	1,360.5	1,333.3	27.26	49.915		
7,600.0	7,162.0	7,439.6	6,950.0	15.4	20.2	-80.40	353.4	-1,082.5	1,360.5	1,331.6	28.93	47.024		
7,700.0	7,162.0	7,539.6	6,950.0	16.4	21.0	-80.40	453.4	-1,082.5	1,360.5	1,329.6	30.95	43.954		
7,800.0	7,162.0	7,639.6	6,950.0	17.5	21.8	-80.40	553.4	-1,082.4	1,360.5	1,327.3	33.21	40.964		
7,900.0	7,162.0	7,739.6	6,950.0	18.7	22.8	-80.40	653.4	-1,082.4	1,360.5	1,324.8	35.66	38.147		
8,000.0	7,162.0	7,839.6	6,950.0	20.0	23.9	-80.40	753.4	-1,082.4	1,360.5	1,322.2	38.27	35.547		
8,100.0	7,162.0	7,939.6	6,950.0	21.3	25.0	-80.40	853.4	-1,082.4	1,360.5	1,319.5	41.01	33.176		
8,200.0	7,162.0	8,039.6	6,950.0	22.7	26.2	-80.40	953.4	-1,082.4	1,360.5	1,316.6	43.84	31.029		
8,300.0	7,162.0	8,139.6	6,950.0	24.1	27.5	-80.40	1,053.4	-1,082.4	1,360.5	1,313.7	46.77	29.091		
8,400.0	7,162.0	8,239.6	6,950.0	25.6	28.8	-80.40	1,153.4	-1,082.4	1,360.5	1,310.7	49.76	27.342		
8,500.0	7,162.0	8,339.6	6,950.0	27.1	30.2	-80.40	1,253.4	-1,082.4	1,360.5	1,307.6	52.80	25.764		
8,600.0	7,162.0	8,439.6	6,950.0	28.7	31.6	-80.40	1,353.4	-1,082.4	1,360.4	1,304.5	55.90	24.337		
8,700.0	7,162.0	8,539.6	6,950.0	30.2	33.0	-80.40	1,453.4	-1,082.4	1,360.4	1,301.4	59.04	23.044		
8,800.0	7,162.0	8,639.6	6,950.0	31.8	34.5	-80.40	1,553.4	-1,082.4	1,360.4	1,298.2	62.21	21.870		
8,900.0	7,162.0	8,739.6	6,950.0	33.4	36.0	-80.40	1,653.4	-1,082.4	1,360.4	1,295.0	65.41	20.799		
9,000.0	7,162.0	8,839.6	6,950.0	35.0	37.5	-80.40	1,753.4	-1,082.3	1,360.4	1,291.8	68.63	19.822		
9,100.0	7,162.0	8,939.6	6,950.0	36.7	39.0	-80.40	1,853.4	-1,082.3	1,360.4	1,288.5	71.88	18.926		
9,200.0	7,162.0	9,039.6	6,950.0	38.3	40.6	-80.40	1,953.4	-1,082.3	1,360.4	1,285.3	75.14	18.104		
9,300.0	7,162.0	9,139.6	6,950.0	40.0	42.2	-80.40	2,053.4	-1,082.3	1,360.4	1,282.0	78.43	17.346		
9,400.0	7,162.0	9,239.6	6,950.0	41.6	43.7	-80.40	2,153.4	-1,082.3	1,360.4	1,278.7	81.72	16.646		
9,500.0	7,162.0	9,339.6	6,950.0	43.3	45.3	-80.40	2,253.4	-1,082.3	1,360.4	1,275.3	85.03	15.998		
9,600.0	7,162.0	9,439.6	6,950.0	45.0	46.9	-80.40	2,353.4	-1,082.3	1,360.4	1,272.0	88.36	15.397		
9,700.0	7,162.0	9,539.6	6,950.0	46.6	48.6	-80.40	2,453.4	-1,082.3	1,360.4	1,268.7	91.69	14.837		
9,800.0	7,162.0	9,639.6	6,950.0	48.3	50.2	-80.40	2,553.4	-1,082.3	1,360.4	1,265.3	95.03	14.315		
9,900.0	7,162.0	9,739.6	6,950.0	50.0	51.8	-80.40	2,653.4	-1,082.3	1,360.3	1,262.0	98.38	13.828		
10,000.0	7,162.0	9,839.6	6,950.0	51.7	53.5	-80.40	2,753.4	-1,082.3	1,360.3	1,258.6	101.73	13.372		
10,100.0	7,162.0	9,939.6	6,950.0	53.4	55.1	-80.40	2,853.4	-1,082.3	1,360.3	1,255.2	105.10	12.944		
10,200.0	7,162.0	10,039.6	6,950.0	55.1	56.8	-80.40	2,953.4	-1,082.3	1,360.3	1,251.9	108.47	12.541		
10,300.0	7,162.0	10,139.6	6,950.0	56.8	58.4	-80.40	3,053.4	-1,082.2	1,360.3	1,248.5	111.84	12.163		
10,400.0	7,162.0	10,239.6	6,950.0	58.5	60.1	-80.40	3,153.4	-1,082.2	1,360.3	1,245.1	115.22	11.806		
10,500.0	7,162.0	10,339.6	6,950.0	60.2	61.8	-80.40	3,253.4	-1,082.2	1,360.3	1,241.7	118.60	11.469		
10,600.0	7,162.0	10,439.6	6,950.0	61.9	63.4	-80.40	3,353.4	-1,082.2	1,360.3	1,238.3	121.99	11.151		
10,700.0	7,162.0	10,539.6	6,950.0	63.7	65.1	-80.40	3,453.4	-1,082.2	1,360.3	1,234.9	125.39	10.849		
10,800.0	7,162.0	10,639.6	6,950.0	65.4	66.8	-80.40	3,553.4	-1,082.2	1,360.3	1,231.5	128.78	10.563		
10,900.0	7,162.0	10,739.6	6,950.0	67.1	68.5	-80.40	3,653.4	-1,082.2	1,360.3	1,228.1	132.18	10.291		
11,000.0	7,162.0	10,839.6	6,950.0	68.8	70.2	-80.40	3,753.4	-1,082.2	1,360.3	1,224.7	135.58	10.033		
11,100.0	7,162.0	10,939.6	6,950.0	70.5	71.9	-80.40	3,853.4	-1,082.2	1,360.2	1,221.3	138.99	9.787		
11,150.0	7,162.0	10,989.6	6,950.0	71.4	72.7	-80.40	3,903.4	-1,082.2	1,360.2	1,219.6	140.69	9.668		
11,200.0	7,162.0	11,039.6	6,950.0	72.2	73.6	-80.39	3,953.4	-1,082.2	1,359.6	1,217.7	141.87	9.583		
11,300.0	7,162.0	11,139.4	6,950.0	74.0	75.3	-80.32	4,053.2	-1,082.2	1,354.4	1,210.4	143.93	9.410		
11,400.0	7,162.0	11,238.8	6,950.0	75.7	77.0	-80.19	4,152.7	-1,082.2	1,344.0	1,198.4	145.57	9.232		
11,500.0	7,162.0	11,337.6	6,950.0	77.3	78.6	-79.99	4,251.4	-1,082.1	1,328.4	1,181.6	146.77	9.051		
11,600.0	7,162.0	11,435.3	6,950.0	79.0	80.3	-79.72	4,349.2	-1,082.1	1,307.7	1,160.2	147.50	8.866		
11,700.0	7,162.0	11,531.8	6,950.0	80.7	82.0	-79.36	4,445.7	-1,082.1	1,282.0	1,134.2	147.74	8.677		
11,747.9	7,162.0	11,572.7	6,950.0	81.4	82.7	-79.17	4,486.5	-1,082.1	1,267.9	1,120.3	147.61	8.589 CC, ES, SF		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4A-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-89.29	0.4	-29.9	29.9					
100.0	100.0	101.0	101.0	0.1	0.1	-89.29	0.4	-29.9	29.9	29.7	0.25	121.609		
166.3	166.3	167.3	167.3	0.2	0.2	-89.29	0.4	-29.9	29.9	29.4	0.48	62.658 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-89.29	0.4	-29.9	29.9	29.3	0.60	50.284 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-90.49	-0.3	-31.5	31.6	30.6	0.95	33.389		
400.0	400.0	398.8	398.6	0.6	0.7	-93.37	-2.1	-36.3	36.5	35.2	1.31	27.909		
500.0	500.0	497.0	496.5	0.8	0.9	123.53	-5.2	-44.2	45.3	43.6	1.64	27.577		
600.0	600.0	594.5	593.2	1.0	1.2	122.41	-9.5	-55.2	58.3	56.3	1.99	29.254		
700.0	699.9	691.6	689.2	1.2	1.4	122.18	-14.9	-68.9	75.4	73.0	2.35	32.051		
800.0	799.7	789.8	786.2	1.4	1.8	122.76	-20.6	-83.6	94.1	91.4	2.72	34.569		
853.0	852.6	841.8	837.5	1.5	1.9	123.29	-23.6	-91.3	104.4	101.5	2.92	35.724		
900.0	899.4	887.8	882.9	1.6	2.1	123.84	-26.3	-98.2	113.6	110.5	3.10	36.635		
1,000.0	999.1	985.9	979.7	1.8	2.4	124.75	-32.0	-112.7	133.4	129.9	3.49	38.231		
1,100.0	1,098.8	1,083.9	1,076.5	2.0	2.7	125.42	-37.7	-127.3	153.1	149.3	3.88	39.482		
1,200.0	1,198.4	1,181.9	1,173.2	2.2	3.0	125.94	-43.5	-141.9	172.9	168.6	4.27	40.486		
1,300.0	1,298.1	1,279.9	1,270.0	2.4	3.3	126.36	-49.2	-156.5	192.7	188.0	4.66	41.308		
1,400.0	1,397.8	1,377.9	1,366.7	2.6	3.7	126.69	-54.9	-171.1	212.5	207.4	5.06	41.993		
1,500.0	1,497.5	1,475.9	1,463.5	2.9	4.0	126.97	-60.6	-185.7	232.3	226.8	5.46	42.572		
1,600.0	1,597.2	1,574.0	1,560.2	3.1	4.3	127.21	-66.3	-200.3	252.1	246.2	5.85	43.067		
1,700.0	1,696.9	1,672.0	1,657.0	3.3	4.6	127.41	-72.0	-214.9	271.9	265.6	6.25	43.496		
1,800.0	1,796.6	1,770.0	1,753.7	3.5	5.0	127.58	-77.7	-229.4	291.7	285.0	6.65	43.870		
1,900.0	1,896.3	1,868.0	1,850.5	3.7	5.3	127.73	-83.4	-244.0	311.5	304.5	7.05	44.199		
2,000.0	1,995.9	1,966.0	1,947.2	4.0	5.6	127.87	-89.1	-258.6	331.3	323.9	7.45	44.492		
2,100.0	2,095.6	2,064.0	2,044.0	4.2	5.9	127.99	-94.8	-273.2	351.1	343.3	7.85	44.752		
2,200.0	2,195.3	2,162.0	2,140.8	4.4	6.2	128.09	-100.5	-287.8	371.0	362.7	8.25	44.987		
2,300.0	2,295.0	2,260.1	2,237.5	4.6	6.6	128.19	-106.2	-302.4	390.8	382.1	8.65	45.198		
2,400.0	2,394.7	2,358.1	2,334.3	4.8	6.9	128.27	-112.0	-317.0	410.6	401.5	9.05	45.390		
2,500.0	2,494.4	2,456.1	2,431.0	5.1	7.2	128.35	-117.7	-331.6	430.4	421.0	9.45	45.565		
2,600.0	2,594.1	2,554.1	2,527.8	5.3	7.5	128.42	-123.4	-346.1	450.2	440.4	9.85	45.725		
2,700.0	2,693.8	2,652.1	2,624.5	5.5	7.9	128.49	-129.1	-360.7	470.0	459.8	10.25	45.872		
2,800.0	2,793.4	2,750.1	2,721.3	5.7	8.2	128.55	-134.8	-375.3	489.9	479.2	10.65	46.008		
2,900.0	2,893.1	2,848.1	2,818.0	5.9	8.5	128.60	-140.5	-389.9	509.7	498.6	11.05	46.133		
3,000.0	2,992.8	2,946.2	2,914.8	6.2	8.8	128.65	-146.2	-404.5	529.5	518.1	11.45	46.249		
3,100.0	3,092.5	3,044.2	3,011.6	6.4	9.2	128.70	-151.9	-419.1	549.3	537.5	11.85	46.357		
3,200.0	3,192.2	3,142.2	3,108.3	6.6	9.5	128.75	-157.6	-433.7	569.2	556.9	12.25	46.458		
3,300.0	3,291.9	3,240.2	3,205.1	6.8	9.8	128.79	-163.3	-448.3	589.0	576.3	12.65	46.552		
3,400.0	3,391.6	3,338.2	3,301.8	7.1	10.1	128.83	-169.0	-462.9	608.8	595.7	13.05	46.640		
3,500.0	3,491.3	3,436.2	3,398.6	7.3	10.5	128.86	-174.7	-477.4	628.6	615.2	13.45	46.723		
3,600.0	3,590.9	3,534.2	3,495.3	7.5	10.8	128.90	-180.5	-492.0	648.4	634.6	13.86	46.801		
3,700.0	3,690.6	3,632.3	3,592.1	7.7	11.1	128.93	-186.2	-506.6	668.3	654.0	14.26	46.874		
3,800.0	3,790.3	3,730.3	3,688.8	7.9	11.4	128.96	-191.9	-521.2	688.1	673.4	14.66	46.943		
3,900.0	3,890.0	3,828.3	3,785.6	8.2	11.8	128.99	-197.6	-535.8	707.9	692.9	15.06	47.008		
4,000.0	3,989.7	3,926.3	3,882.3	8.4	12.1	129.01	-203.3	-550.4	727.7	712.3	15.46	47.070		
4,100.0	4,089.4	4,024.3	3,979.1	8.6	12.4	129.04	-209.0	-565.0	747.6	731.7	15.86	47.128		
4,200.0	4,189.1	4,122.3	4,075.9	8.8	12.7	129.06	-214.7	-579.6	767.4	751.1	16.26	47.184		
4,300.0	4,288.8	4,220.4	4,172.6	9.1	13.1	129.08	-220.4	-594.1	787.2	770.5	16.67	47.237		
4,400.0	4,388.4	4,318.4	4,269.4	9.3	13.4	129.11	-226.1	-608.7	807.0	790.0	17.07	47.287		
4,500.0	4,488.1	4,416.4	4,366.1	9.5	13.7	129.13	-231.8	-623.3	826.9	809.4	17.47	47.335		
4,600.0	4,587.8	4,514.4	4,462.9	9.7	14.0	129.15	-237.5	-637.9	846.7	828.8	17.87	47.381		
4,700.0	4,687.5	4,612.4	4,559.6	9.9	14.4	129.17	-243.2	-652.5	866.5	848.2	18.27	47.424		
4,800.0	4,787.2	4,710.4	4,656.4	10.2	14.7	129.18	-249.0	-667.1	886.3	867.7	18.67	47.466		
4,900.0	4,886.9	4,808.4	4,753.1	10.4	15.0	129.20	-254.7	-681.7	906.2	887.1	19.07	47.506		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4A-20H-O264 - 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)				
5,000.0	4,986.6	4,906.5	4,849.9	10.6	15.3	129.22	-260.4	-696.3	926.0	906.5	19.48	47.544		
5,100.0	5,086.3	5,004.5	4,946.7	10.8	15.7	129.23	-266.1	-710.8	945.8	925.9	19.88	47.581		
5,200.0	5,185.9	5,102.5	5,043.4	11.0	16.0	129.25	-271.8	-725.4	965.6	945.4	20.28	47.616		
5,300.0	5,285.6	5,200.5	5,140.2	11.3	16.3	129.26	-277.5	-740.0	985.5	964.8	20.68	47.650		
5,400.0	5,385.3	5,298.5	5,236.9	11.5	16.6	129.28	-283.2	-754.6	1,005.3	984.2	21.08	47.682		
5,500.0	5,485.0	5,396.5	5,333.7	11.7	17.0	129.29	-288.9	-769.2	1,025.1	1,003.6	21.48	47.713		
5,562.6	5,547.4	5,457.9	5,394.3	11.9	17.2	129.30	-292.5	-778.3	1,037.5	1,015.8	21.74	47.732		
5,600.0	5,584.7	5,494.6	5,430.4	11.9	17.3	129.36	-294.6	-783.8	1,044.9	1,023.0	21.90	47.721		
5,700.0	5,684.5	5,592.8	5,527.4	12.1	17.6	129.45	-300.3	-798.4	1,063.7	1,041.4	22.30	47.692		
5,800.0	5,784.4	5,736.2	5,669.4	12.3	18.0	129.45	-307.7	-817.1	1,079.8	1,057.0	22.77	47.427		
5,900.0	5,884.3	5,889.9	5,822.5	12.5	18.3	129.45	-312.6	-829.8	1,089.9	1,066.7	23.21	46.952		
6,000.0	5,984.3	6,044.8	5,977.3	12.6	18.5	129.45	-314.6	-834.8	1,093.9	1,070.2	23.62	46.304		
6,015.7	6,000.0	6,068.5	6,001.0	12.6	18.5	-89.98	-314.6	-834.9	1,093.9	1,070.2	23.69	46.186		
6,100.0	6,084.3	6,152.9	6,085.3	12.8	18.6	-89.98	-314.6	-834.9	1,093.9	1,070.0	23.95	45.682		
6,200.0	6,184.3	6,252.9	6,185.3	12.9	18.7	-89.98	-314.6	-834.9	1,093.9	1,069.7	24.26	45.097		
6,300.0	6,284.3	6,352.9	6,285.3	13.1	18.8	-89.98	-314.6	-834.9	1,093.9	1,069.4	24.57	44.525		
6,400.0	6,384.3	6,452.9	6,385.3	13.2	18.9	-89.98	-314.6	-834.9	1,093.9	1,069.0	24.88	43.965		
6,456.9	6,441.3	6,509.8	6,442.3	13.3	19.0	-89.98	-314.6	-834.9	1,093.9	1,068.9	25.06	43.652		
6,500.0	6,484.3	6,552.8	6,485.2	13.4	19.0	-89.92	-313.5	-834.9	1,093.9	1,068.7	25.18	43.441		
6,604.7	6,589.0	6,654.7	6,585.8	13.5	19.0	-89.11	-298.1	-834.9	1,094.1	1,068.6	25.42	43.042		
6,650.0	6,634.3	6,697.1	6,626.6	13.6	19.0	-88.57	-286.4	-834.9	1,094.3	1,068.8	25.47	42.959		
6,700.0	6,683.9	6,743.0	6,669.6	13.6	19.0	-87.98	-270.5	-834.9	1,094.6	1,069.2	25.48	42.960		
6,750.0	6,732.8	6,788.2	6,710.6	13.6	18.9	-87.40	-251.5	-834.9	1,095.1	1,069.7	25.44	43.043		
6,800.0	6,780.6	6,832.7	6,749.3	13.5	18.9	-86.85	-229.6	-834.9	1,095.7	1,070.3	25.37	43.192		
6,850.0	6,826.9	6,876.5	6,785.8	13.5	18.9	-86.32	-205.2	-834.9	1,096.3	1,071.0	25.27	43.391		
6,900.0	6,871.4	6,919.8	6,819.8	13.4	18.8	-85.82	-178.5	-834.9	1,096.9	1,071.8	25.15	43.618		
6,950.0	6,913.8	6,962.6	6,851.3	13.4	18.8	-85.35	-149.7	-834.9	1,097.7	1,072.6	25.03	43.851		
7,000.0	6,953.7	7,004.9	6,880.3	13.3	18.8	-84.91	-118.9	-834.9	1,098.4	1,073.5	24.93	44.064		
7,050.0	6,990.8	7,050.0	6,908.7	13.3	18.8	-84.47	-83.8	-834.9	1,099.1	1,074.3	24.85	44.231		
7,100.0	7,024.9	7,088.3	6,930.5	13.2	18.8	-84.13	-52.3	-834.9	1,099.8	1,075.0	24.82	44.305		
7,150.0	7,055.7	7,129.5	6,951.6	13.3	18.8	-83.79	-16.9	-834.9	1,100.5	1,075.6	24.86	44.273		
7,200.0	7,082.9	7,170.4	6,969.9	13.3	18.9	-83.50	19.7	-834.9	1,101.1	1,076.1	24.97	44.096		
7,250.0	7,106.3	7,211.1	6,985.5	13.4	19.0	-83.25	57.2	-834.9	1,101.6	1,076.5	25.16	43.788		
7,300.0	7,125.8	7,250.0	6,998.0	13.5	19.1	-83.04	94.1	-834.9	1,102.1	1,076.7	25.43	43.331		
7,350.0	7,141.2	7,292.0	7,008.5	13.7	19.2	-82.88	134.7	-834.9	1,102.5	1,076.6	25.83	42.677		
7,400.0	7,152.4	7,332.2	7,015.8	14.0	19.4	-82.76	174.3	-834.9	1,102.7	1,076.4	26.33	41.889		
7,450.0	7,159.4	7,372.4	7,020.3	14.3	19.5	-82.68	214.2	-834.9	1,102.9	1,076.0	26.92	40.977		
7,504.7	7,162.0	7,416.6	7,022.0	14.7	19.8	-82.66	258.3	-834.9	1,103.0	1,075.3	27.66	39.873		
7,530.4	7,162.0	7,442.0	7,022.0	14.9	19.9	-82.66	283.7	-834.9	1,103.0	1,074.9	28.10	39.256		
7,600.0	7,162.0	7,511.6	7,022.0	15.4	20.3	-82.66	353.3	-834.9	1,103.0	1,073.7	29.30	37.650		
7,700.0	7,162.0	7,611.6	7,022.0	16.4	21.1	-82.66	453.3	-834.9	1,103.0	1,071.7	31.29	35.250		
7,800.0	7,162.0	7,711.6	7,022.0	17.5	21.9	-82.66	553.3	-834.9	1,103.0	1,069.4	33.53	32.896		
7,900.0	7,162.0	7,811.6	7,022.0	18.7	22.9	-82.66	653.3	-834.9	1,103.0	1,067.0	35.97	30.668		
8,000.0	7,162.0	7,911.6	7,022.0	20.0	23.9	-82.66	753.3	-834.9	1,103.0	1,064.4	38.56	28.602		
8,100.0	7,162.0	8,011.6	7,022.0	21.3	25.0	-82.66	853.3	-834.9	1,103.0	1,061.7	41.29	26.713		
8,200.0	7,162.0	8,111.6	7,022.0	22.7	26.2	-82.66	953.3	-834.9	1,103.0	1,058.9	44.12	24.998		
8,300.0	7,162.0	8,211.6	7,022.0	24.1	27.5	-82.66	1,053.3	-834.9	1,103.0	1,055.9	47.04	23.446		
8,400.0	7,162.0	8,311.6	7,022.0	25.6	28.8	-82.66	1,153.3	-834.9	1,103.0	1,052.9	50.03	22.044		
8,500.0	7,162.0	8,411.6	7,022.0	27.1	30.1	-82.66	1,253.3	-834.9	1,103.0	1,049.9	53.09	20.777		
8,600.0	7,162.0	8,511.6	7,022.0	28.7	31.5	-82.66	1,353.3	-834.9	1,103.0	1,046.8	56.19	19.631		
8,700.0	7,162.0	8,611.6	7,022.0	30.2	33.0	-82.66	1,453.3	-834.9	1,103.0	1,043.6	59.33	18.591		
8,800.0	7,162.0	8,711.6	7,022.0	31.8	34.4	-82.66	1,553.3	-834.9	1,103.0	1,040.5	62.51	17.645		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4A-20H-O264 - 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		
8,900.0	7,162.0	8,811.6	7,022.0	33.4	35.9	-82.66	1,653.3	-834.9	1,103.0	1,037.3	65.72	16.783		
9,000.0	7,162.0	8,911.6	7,022.0	35.0	37.4	-82.66	1,753.3	-834.9	1,103.0	1,034.0	68.95	15.996		
9,100.0	7,162.0	9,011.6	7,022.0	36.7	38.9	-82.66	1,853.3	-834.9	1,103.0	1,030.8	72.21	15.274		
9,200.0	7,162.0	9,111.6	7,022.0	38.3	40.5	-82.66	1,953.3	-834.9	1,103.0	1,027.5	75.49	14.611		
9,300.0	7,162.0	9,211.6	7,022.0	40.0	42.1	-82.66	2,053.3	-834.9	1,103.0	1,024.2	78.79	14.000		
9,400.0	7,162.0	9,311.6	7,022.0	41.6	43.6	-82.66	2,153.3	-834.9	1,103.0	1,020.9	82.10	13.435		
9,500.0	7,162.0	9,411.6	7,022.0	43.3	45.2	-82.66	2,253.3	-834.9	1,103.0	1,017.6	85.42	12.912		
9,600.0	7,162.0	9,511.6	7,022.0	45.0	46.8	-82.66	2,353.3	-834.9	1,103.0	1,014.2	88.76	12.427		
9,700.0	7,162.0	9,611.6	7,022.0	46.6	48.4	-82.66	2,453.3	-834.9	1,103.0	1,010.9	92.10	11.976		
9,800.0	7,162.0	9,711.6	7,022.0	48.3	50.1	-82.66	2,553.3	-834.9	1,103.0	1,007.5	95.46	11.555		
9,900.0	7,162.0	9,811.6	7,022.0	50.0	51.7	-82.66	2,653.3	-834.9	1,103.0	1,004.2	98.82	11.161		
10,000.0	7,162.0	9,911.6	7,022.0	51.7	53.3	-82.66	2,753.3	-834.9	1,103.0	1,000.8	102.20	10.793		
10,100.0	7,162.0	10,011.6	7,022.0	53.4	55.0	-82.66	2,853.3	-834.9	1,103.0	997.4	105.57	10.447		
10,200.0	7,162.0	10,111.6	7,022.0	55.1	56.6	-82.66	2,953.3	-834.9	1,103.0	994.0	108.96	10.123		
10,300.0	7,162.0	10,211.6	7,022.0	56.8	58.3	-82.66	3,053.3	-834.9	1,103.0	990.6	112.35	9.817		
10,400.0	7,162.0	10,311.6	7,022.0	58.5	60.0	-82.66	3,153.3	-834.9	1,103.0	987.2	115.75	9.529		
10,500.0	7,162.0	10,411.6	7,022.0	60.2	61.6	-82.66	3,253.3	-834.9	1,103.0	983.8	119.15	9.257		
10,600.0	7,162.0	10,511.6	7,022.0	61.9	63.3	-82.66	3,353.3	-834.9	1,103.0	980.4	122.56	9.000		
10,700.0	7,162.0	10,611.6	7,022.0	63.7	65.0	-82.66	3,453.3	-834.9	1,103.0	977.0	125.97	8.756		
10,800.0	7,162.0	10,711.6	7,022.0	65.4	66.7	-82.66	3,553.3	-834.9	1,103.0	973.6	129.38	8.525		
10,900.0	7,162.0	10,811.6	7,022.0	67.1	68.3	-82.66	3,653.3	-834.9	1,103.0	970.2	132.80	8.306		
11,000.0	7,162.0	10,911.6	7,022.0	68.8	70.0	-82.66	3,753.3	-834.9	1,103.0	966.8	136.22	8.097		
11,100.0	7,162.0	11,011.6	7,022.0	70.5	71.7	-82.66	3,853.3	-834.9	1,103.0	963.3	139.64	7.899		
11,150.0	7,162.0	11,061.6	7,022.0	71.4	72.6	-82.66	3,903.3	-834.9	1,103.0	961.6	141.35	7.803		
11,200.0	7,162.0	11,111.6	7,022.0	72.2	73.4	-82.65	3,953.3	-834.9	1,102.3	959.1	143.25	7.695		
11,300.0	7,162.0	11,211.6	7,022.0	74.0	75.1	-82.59	4,053.1	-834.9	1,097.1	950.3	146.76	7.476		
11,400.0	7,162.0	11,310.8	7,022.0	75.7	76.8	-82.48	4,152.6	-834.9	1,086.6	936.8	149.84	7.252		
11,500.0	7,162.0	11,409.6	7,022.0	77.3	78.5	-82.31	4,251.3	-834.9	1,071.0	918.5	152.48	7.024		
11,600.0	7,162.0	11,507.3	7,022.0	79.0	80.2	-82.06	4,349.1	-834.9	1,050.2	895.5	154.65	6.791		
11,700.0	7,162.0	11,603.8	7,022.0	80.7	81.8	-81.74	4,445.6	-834.9	1,024.3	867.9	156.32	6.552		
11,747.9	7,162.0	11,645.9	7,022.0	81.4	82.5	-81.57	4,487.6	-834.9	1,010.1	853.2	156.88	6.439 SF		





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-Geolink MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-89.02	0.4	-22.4	22.4					
100.0	100.0	101.0	101.0	0.1	0.1	-89.02	0.4	-22.4	22.4	22.1	0.25	90.929		
200.0	200.0	201.0	201.0	0.3	0.3	-89.02	0.4	-22.4	22.4	21.8	0.60	37.598		
232.2	232.2	233.2	233.2	0.4	0.4	-89.02	0.4	-22.4	22.4	21.7	0.71	31.632 CC, ES		
300.0	300.0	300.6	300.6	0.5	0.5	-89.57	0.2	-22.8	22.8	21.8	0.94	24.126		
400.0	400.0	400.0	399.9	0.6	0.7	-93.27	-1.5	-25.8	25.9	24.6	1.30	19.942		
500.0	500.0	498.7	498.3	0.8	0.9	122.25	-4.7	-31.9	32.8	31.1	1.64	19.949		
600.0	600.0	596.8	595.9	1.0	1.1	120.20	-9.5	-40.9	43.9	41.9	2.00	21.964		
700.0	699.9	695.8	694.2	1.2	1.3	119.85	-15.3	-51.5	57.7	55.3	2.36	24.424		
800.0	799.7	794.7	792.3	1.4	1.6	120.80	-21.0	-62.2	72.3	69.6	2.73	26.447		
853.0	852.6	847.1	844.3	1.5	1.7	121.57	-24.0	-67.9	80.4	77.5	2.94	27.395		
900.0	899.4	893.5	890.4	1.6	1.9	122.31	-26.7	-72.9	87.8	84.7	3.12	28.154		
1,000.0	999.1	992.2	988.4	1.8	2.1	123.54	-32.4	-83.6	103.4	99.9	3.51	29.490		
1,100.0	1,098.8	1,090.9	1,086.4	2.0	2.4	124.44	-38.1	-94.2	119.1	115.2	3.90	30.544		
1,200.0	1,198.4	1,189.7	1,184.4	2.2	2.7	125.13	-43.9	-104.9	134.8	130.5	4.29	31.394		
1,300.0	1,298.1	1,288.4	1,282.4	2.4	2.9	125.68	-49.6	-115.6	150.5	145.8	4.69	32.094		
1,400.0	1,397.8	1,387.2	1,380.4	2.6	3.2	126.12	-55.3	-126.2	166.3	161.2	5.09	32.679		
1,500.0	1,497.5	1,485.9	1,478.4	2.9	3.5	126.49	-61.0	-136.9	182.0	176.5	5.49	33.175		
1,600.0	1,597.2	1,584.7	1,576.4	3.1	3.8	126.80	-66.7	-147.6	197.7	191.9	5.89	33.601		
1,700.0	1,696.9	1,683.4	1,674.4	3.3	4.0	127.06	-72.5	-158.2	213.5	207.2	6.28	33.971		
1,800.0	1,796.6	1,782.2	1,772.4	3.5	4.3	127.29	-78.2	-168.9	229.3	222.6	6.68	34.294		
1,900.0	1,896.3	1,880.9	1,870.4	3.7	4.6	127.49	-83.9	-179.6	245.0	237.9	7.09	34.579		
2,000.0	1,995.9	1,979.7	1,968.4	4.0	4.8	127.66	-89.6	-190.2	260.8	253.3	7.49	34.833		
2,100.0	2,095.6	2,078.4	2,066.4	4.2	5.1	127.81	-95.3	-200.9	276.5	268.6	7.89	35.060		
2,200.0	2,195.3	2,177.2	2,164.4	4.4	5.4	127.95	-101.1	-211.6	292.3	284.0	8.29	35.264		
2,300.0	2,295.0	2,275.9	2,262.4	4.6	5.7	128.08	-106.8	-222.2	308.1	299.4	8.69	35.448		
2,400.0	2,394.7	2,374.7	2,360.4	4.8	5.9	128.19	-112.5	-232.9	323.8	314.7	9.09	35.616		
2,500.0	2,494.4	2,473.4	2,458.4	5.1	6.2	128.29	-118.2	-243.6	339.6	330.1	9.49	35.769		
2,600.0	2,594.1	2,572.2	2,556.4	5.3	6.5	128.38	-123.9	-254.2	355.4	345.5	9.90	35.909		
2,700.0	2,693.8	2,670.9	2,654.4	5.5	6.7	128.46	-129.7	-264.9	371.1	360.8	10.30	36.038		
2,800.0	2,793.4	2,769.7	2,752.4	5.7	7.0	128.54	-135.4	-275.6	386.9	376.2	10.70	36.157		
2,900.0	2,893.1	2,868.4	2,850.4	5.9	7.3	128.61	-141.1	-286.2	402.7	391.6	11.10	36.267		
3,000.0	2,992.8	2,967.1	2,948.4	6.2	7.6	128.68	-146.8	-296.9	418.5	406.9	11.51	36.369		
3,100.0	3,092.5	3,065.9	3,046.4	6.4	7.8	128.74	-152.5	-307.6	434.2	422.3	11.91	36.464		
3,200.0	3,192.2	3,164.6	3,144.4	6.6	8.1	128.80	-158.3	-318.2	450.0	437.7	12.31	36.553		
3,300.0	3,291.9	3,263.4	3,242.4	6.8	8.4	128.85	-164.0	-328.9	465.8	453.1	12.71	36.636		
3,400.0	3,391.6	3,362.1	3,340.4	7.1	8.7	128.90	-169.7	-339.6	481.5	468.4	13.12	36.713		
3,500.0	3,491.3	3,460.9	3,438.4	7.3	8.9	128.95	-175.4	-350.2	497.3	483.8	13.52	36.786		
3,600.0	3,590.9	3,559.6	3,536.4	7.5	9.2	128.99	-181.1	-360.9	513.1	499.2	13.92	36.855		
3,700.0	3,690.6	3,658.4	3,634.4	7.7	9.5	129.03	-186.8	-371.6	528.9	514.5	14.32	36.920		
3,800.0	3,790.3	3,757.1	3,732.4	7.9	9.8	129.07	-192.6	-382.2	544.6	529.9	14.73	36.981		
3,900.0	3,890.0	3,855.9	3,830.5	8.2	10.0	129.11	-198.3	-392.9	560.4	545.3	15.13	37.038		
4,000.0	3,989.7	3,954.6	3,928.5	8.4	10.3	129.14	-204.0	-403.6	576.2	560.7	15.53	37.093		
4,100.0	4,089.4	4,053.4	4,026.5	8.6	10.6	129.17	-209.7	-414.2	592.0	576.0	15.94	37.145		
4,200.0	4,189.1	4,152.1	4,124.5	8.8	10.8	129.20	-215.4	-424.9	607.7	591.4	16.34	37.194		
4,300.0	4,288.8	4,250.9	4,222.5	9.1	11.1	129.23	-221.2	-435.6	623.5	606.8	16.74	37.241		
4,400.0	4,388.4	4,349.6	4,320.5	9.3	11.4	129.26	-226.9	-446.2	639.3	622.1	17.15	37.286		
4,500.0	4,488.1	4,448.4	4,418.5	9.5	11.7	129.29	-232.6	-456.9	655.1	637.5	17.55	37.328		
4,600.0	4,587.8	4,547.1	4,516.5	9.7	11.9	129.31	-238.3	-467.6	670.8	652.9	17.95	37.369		
4,700.0	4,687.5	4,645.8	4,614.5	9.9	12.2	129.34	-244.0	-478.2	686.6	668.3	18.36	37.407		
4,800.0	4,787.2	4,744.6	4,712.5	10.2	12.5	129.36	-249.8	-488.9	702.4	683.6	18.76	37.444		
4,900.0	4,886.9	4,843.3	4,810.5	10.4	12.8	129.38	-255.5	-499.6	718.2	699.0	19.16	37.480		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - 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		
5,000.0	4,986.6	4,942.1	4,908.5	10.6	13.0	129.40	-261.2	-510.2	734.0	714.4	19.56	37.514		
5,100.0	5,086.3	5,040.8	5,006.5	10.8	13.3	129.42	-266.9	-520.9	749.7	729.8	19.97	37.546		
5,200.0	5,185.9	5,139.6	5,104.5	11.0	13.6	129.44	-272.6	-531.6	765.5	745.1	20.37	37.578		
5,300.0	5,285.6	5,238.3	5,202.5	11.3	13.9	129.46	-278.4	-542.3	781.3	760.5	20.77	37.608		
5,400.0	5,385.3	5,337.1	5,300.5	11.5	14.1	129.48	-284.1	-552.9	797.1	775.9	21.18	37.636		
5,500.0	5,485.0	5,435.8	5,398.5	11.7	14.4	129.50	-289.8	-563.6	812.8	791.3	21.58	37.664		
5,562.6	5,547.4	5,497.7	5,459.9	11.9	14.6	129.51	-293.4	-570.3	822.7	800.9	21.83	37.681		
5,600.0	5,584.7	5,534.6	5,496.5	11.9	14.7	129.55	-295.5	-574.3	828.5	806.5	21.99	37.678		
5,700.0	5,684.5	5,633.5	5,594.7	12.1	14.9	129.60	-301.2	-584.9	843.4	821.0	22.39	37.663		
5,800.0	5,784.4	5,748.4	5,708.8	12.3	15.2	129.54	-307.6	-596.8	856.7	833.9	22.80	37.572		
5,900.0	5,884.3	5,883.8	5,843.8	12.5	15.5	129.48	-312.6	-606.1	865.4	842.2	23.21	37.282		
6,000.0	5,984.3	6,020.1	5,980.0	12.6	15.7	129.45	-314.6	-609.8	868.8	845.2	23.59	36.830		
6,015.7	6,000.0	6,041.1	6,001.0	12.6	15.7	-89.97	-314.6	-609.9	868.9	845.2	23.65	36.743		
6,100.0	6,084.3	6,125.5	6,085.3	12.8	15.8	-89.97	-314.6	-609.9	868.9	845.0	23.91	36.342		
6,200.0	6,184.3	6,225.5	6,185.3	12.9	15.9	-89.97	-314.6	-609.9	868.9	844.7	24.22	35.876		
6,300.0	6,284.3	6,325.5	6,285.3	13.1	16.1	-89.97	-314.6	-609.9	868.9	844.3	24.53	35.420		
6,400.0	6,384.3	6,425.5	6,385.3	13.2	16.2	-89.97	-314.6	-609.9	868.9	844.0	24.84	34.974		
6,500.0	6,484.3	6,525.5	6,485.3	13.4	16.3	-89.97	-314.6	-609.9	868.9	843.7	25.16	34.539		
6,567.1	6,551.4	6,592.6	6,552.4	13.5	16.4	-89.97	-314.6	-609.9	868.9	843.5	25.37	34.251		
6,604.7	6,589.0	6,630.1	6,590.0	13.5	16.4	-89.97	-314.6	-609.9	868.9	843.4	25.48	34.096		
6,650.0	6,634.3	6,675.4	6,635.2	13.6	16.4	-89.93	-312.1	-609.9	868.9	843.3	25.57	33.983		
6,700.0	6,683.9	6,725.3	6,684.6	13.6	16.5	-89.88	-305.4	-609.9	868.9	843.3	25.60	33.936		
6,750.0	6,732.8	6,775.1	6,733.2	13.6	16.5	-89.84	-294.3	-609.9	868.9	843.3	25.58	33.962		
6,800.0	6,780.6	6,824.8	6,780.5	13.5	16.4	-89.80	-279.1	-609.9	868.9	843.4	25.52	34.049		
6,850.0	6,826.9	6,874.5	6,826.3	13.5	16.4	-89.76	-259.9	-609.9	868.9	843.5	25.42	34.182		
6,900.0	6,871.4	6,924.2	6,870.3	13.4	16.3	-89.72	-236.8	-609.9	868.9	843.6	25.30	34.345		
6,950.0	6,913.8	6,973.8	6,912.0	13.4	16.3	-89.68	-210.1	-609.9	868.9	843.7	25.17	34.516		
7,000.0	6,953.7	7,023.3	6,951.2	13.3	16.2	-89.64	-179.8	-609.9	868.9	843.8	25.06	34.673		
7,050.0	6,990.8	7,072.9	6,987.7	13.3	16.2	-89.61	-146.3	-609.9	868.9	843.9	24.97	34.791		
7,100.0	7,024.9	7,122.3	7,021.1	13.2	16.2	-89.58	-109.8	-609.9	868.9	844.0	24.94	34.843		
7,150.0	7,055.7	7,171.8	7,051.2	13.3	16.2	-89.56	-70.6	-609.9	868.9	843.9	24.96	34.806		
7,200.0	7,082.9	7,221.2	7,077.7	13.3	16.2	-89.53	-29.0	-609.9	868.9	843.8	25.07	34.658		
7,250.0	7,106.3	7,270.5	7,100.6	13.4	16.3	-89.51	14.7	-609.9	868.9	843.6	25.27	34.383		
7,300.0	7,125.8	7,319.9	7,119.7	13.5	16.4	-89.50	60.3	-609.9	868.9	843.3	25.57	33.977		
7,350.0	7,141.2	7,369.2	7,134.7	13.7	16.6	-89.49	107.2	-609.9	868.9	842.9	25.98	33.441		
7,400.0	7,152.4	7,418.6	7,145.7	14.0	16.8	-89.48	155.3	-609.9	868.9	842.4	26.50	32.787		
7,450.0	7,159.4	7,467.9	7,152.4	14.3	17.0	-89.48	204.1	-609.9	868.9	841.8	27.12	32.034		
7,504.7	7,162.0	7,521.8	7,155.0	14.7	17.3	-89.48	258.0	-609.9	868.9	841.0	27.91	31.130		
7,600.0	7,162.0	7,617.1	7,155.0	15.4	18.0	-89.48	353.3	-609.9	868.9	839.3	29.56	29.395		
7,700.0	7,162.0	7,717.1	7,155.0	16.4	18.8	-89.48	453.3	-609.9	868.9	837.3	31.57	27.527		
7,800.0	7,162.0	7,817.1	7,155.0	17.5	19.8	-89.48	553.3	-609.9	868.9	835.1	33.82	25.694		
7,900.0	7,162.0	7,917.1	7,155.0	18.7	20.8	-89.48	653.3	-609.9	868.9	832.6	36.27	23.956		
8,000.0	7,162.0	8,017.1	7,155.0	20.0	22.0	-89.48	753.3	-609.9	868.9	830.0	38.88	22.346		
8,100.0	7,162.0	8,117.1	7,155.0	21.3	23.2	-89.48	853.3	-609.9	868.9	827.3	41.63	20.872		
8,200.0	7,162.0	8,217.1	7,155.0	22.7	24.5	-89.48	953.3	-609.9	868.9	824.4	44.48	19.533		
8,300.0	7,162.0	8,317.1	7,155.0	24.1	25.8	-89.48	1,053.3	-609.9	868.9	821.5	47.43	18.321		
8,400.0	7,162.0	8,417.1	7,155.0	25.6	27.2	-89.48	1,153.3	-609.9	868.9	818.5	50.44	17.226		
8,500.0	7,162.0	8,517.1	7,155.0	27.1	28.7	-89.48	1,253.3	-609.9	868.9	815.4	53.51	16.237		
8,600.0	7,162.0	8,617.1	7,155.0	28.7	30.1	-89.48	1,353.3	-609.9	868.9	812.3	56.64	15.341		
8,700.0	7,162.0	8,717.1	7,155.0	30.2	31.6	-89.48	1,453.3	-609.9	868.9	809.1	59.81	14.529		
8,800.0	7,162.0	8,817.1	7,155.0	31.8	33.1	-89.48	1,553.3	-609.9	868.9	805.9	63.01	13.790		
8,900.0	7,162.0	8,917.1	7,155.0	33.4	34.7	-89.48	1,653.3	-609.9	868.9	802.7	66.24	13.117		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4B-20H-O264 - 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		
9,000.0	7,162.0	9,017.1	7,155.0	35.0	36.2	-89.48	1,753.3	-609.9	868.9	799.4	69.50	12.501		
9,100.0	7,162.0	9,117.1	7,155.0	36.7	37.8	-89.48	1,853.3	-609.9	868.9	796.1	72.79	11.937		
9,200.0	7,162.0	9,217.1	7,155.0	38.3	39.4	-89.48	1,953.3	-609.9	868.9	792.8	76.09	11.419		
9,300.0	7,162.0	9,317.1	7,155.0	40.0	41.0	-89.48	2,053.3	-609.9	868.9	789.5	79.41	10.941		
9,400.0	7,162.0	9,417.1	7,155.0	41.6	42.6	-89.48	2,153.3	-609.9	868.9	786.1	82.75	10.500		
9,500.0	7,162.0	9,517.1	7,155.0	43.3	44.3	-89.48	2,253.3	-609.9	868.9	782.8	86.10	10.092		
9,600.0	7,162.0	9,617.1	7,155.0	45.0	45.9	-89.48	2,353.3	-609.9	868.9	779.4	89.46	9.712		
9,700.0	7,162.0	9,717.1	7,155.0	46.6	47.5	-89.48	2,453.3	-609.9	868.9	776.1	92.84	9.359		
9,800.0	7,162.0	9,817.1	7,155.0	48.3	49.2	-89.48	2,553.3	-609.9	868.9	772.7	96.22	9.030		
9,900.0	7,162.0	9,917.1	7,155.0	50.0	50.9	-89.48	2,653.3	-609.9	868.9	769.3	99.61	8.723		
10,000.0	7,162.0	10,017.1	7,155.0	51.7	52.5	-89.48	2,753.3	-609.9	868.9	765.9	103.01	8.435		
10,100.0	7,162.0	10,117.1	7,155.0	53.4	54.2	-89.48	2,853.3	-609.9	868.9	762.5	106.42	8.165		
10,200.0	7,162.0	10,217.1	7,155.0	55.1	55.9	-89.48	2,953.3	-609.9	868.9	759.1	109.83	7.911		
10,300.0	7,162.0	10,317.1	7,155.0	56.8	57.5	-89.48	3,053.3	-609.9	868.9	755.6	113.25	7.673		
10,400.0	7,162.0	10,417.1	7,155.0	58.5	59.2	-89.48	3,153.3	-609.9	868.9	752.2	116.67	7.447		
10,500.0	7,162.0	10,517.1	7,155.0	60.2	60.9	-89.48	3,253.3	-609.9	868.9	748.8	120.10	7.235		
10,600.0	7,162.0	10,617.1	7,155.0	61.9	62.6	-89.48	3,353.3	-609.9	868.9	745.4	123.53	7.034		
10,700.0	7,162.0	10,717.1	7,155.0	63.7	64.3	-89.48	3,453.3	-609.9	868.9	741.9	126.97	6.843		
10,800.0	7,162.0	10,817.1	7,155.0	65.4	66.0	-89.48	3,553.3	-609.9	868.9	738.5	130.41	6.663		
10,900.0	7,162.0	10,917.1	7,155.0	67.1	67.7	-89.48	3,653.3	-609.9	868.9	735.0	133.86	6.491		
11,000.0	7,162.0	11,017.1	7,155.0	68.8	69.4	-89.48	3,753.3	-609.9	868.9	731.6	137.30	6.328		
11,100.0	7,162.0	11,117.1	7,155.0	70.5	71.1	-89.48	3,853.3	-609.9	868.9	728.1	140.75	6.173		
11,150.0	7,162.0	11,167.1	7,155.0	71.4	72.0	-89.48	3,903.3	-609.9	868.9	726.4	142.48	6.098		
11,200.0	7,162.0	11,217.1	7,155.0	72.2	72.8	-89.47	3,953.3	-609.9	868.2	723.9	144.31	6.017		
11,300.0	7,162.0	11,317.0	7,155.0	74.0	74.5	-89.47	4,053.1	-609.9	862.9	715.3	147.67	5.844		
11,400.0	7,162.0	11,416.4	7,155.0	75.7	76.2	-89.46	4,152.6	-609.9	852.4	701.8	150.63	5.659		
11,500.0	7,162.0	11,515.1	7,155.0	77.3	77.9	-89.44	4,251.3	-609.9	836.6	683.4	153.17	5.462		
11,600.0	7,162.0	11,612.9	7,155.0	79.0	79.6	-89.42	4,349.1	-609.9	815.6	660.3	155.26	5.253		
11,700.0	7,162.0	11,709.4	7,155.0	80.7	81.3	-89.39	4,445.6	-609.9	789.5	632.6	156.89	5.032		
11,747.9	7,162.0	11,752.2	7,155.0	81.4	82.0	-89.38	4,488.3	-609.9	775.2	617.7	157.45	4.923 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - 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	-88.48	0.4	-14.8	14.8					
100.0	100.0	100.0	100.0	0.1	0.1	-88.48	0.4	-14.8	14.8	14.6	0.24	60.683		
200.0	200.0	200.0	200.0	0.3	0.3	-88.48	0.4	-14.8	14.8	14.2	0.59	24.987		
300.0	300.0	300.0	300.0	0.5	0.5	-88.48	0.4	-14.8	14.8	13.9	0.94	15.733 CC, ES		
400.0	400.0	399.6	399.6	0.6	0.6	-92.53	-0.7	-16.2	16.2	14.9	1.29	12.504		
500.0	500.0	498.9	498.7	0.8	0.8	120.17	-4.0	-20.1	21.0	19.3	1.64	12.763		
600.0	600.0	598.1	597.6	1.0	1.0	116.23	-9.4	-26.5	29.6	27.6	2.00	14.788		
700.0	699.9	697.6	696.7	1.2	1.3	115.95	-15.1	-33.4	39.6	37.2	2.37	16.724		
800.0	799.7	797.0	795.7	1.4	1.5	117.54	-20.8	-40.3	50.3	47.6	2.74	18.352		
853.0	852.6	849.7	848.1	1.5	1.6	118.76	-23.9	-43.9	56.4	53.4	2.95	19.134		
900.0	899.4	896.3	894.6	1.6	1.7	119.85	-26.5	-47.1	61.9	58.7	3.13	19.770		
1,000.0	999.1	995.6	993.5	1.8	1.9	121.63	-32.3	-54.0	73.6	70.1	3.52	20.902		
1,100.0	1,098.8	1,094.9	1,092.3	2.0	2.2	122.93	-38.0	-60.9	85.4	81.5	3.92	21.805		
1,200.0	1,198.4	1,194.2	1,191.2	2.2	2.4	123.90	-43.7	-67.8	97.2	92.9	4.31	22.540		
1,300.0	1,298.1	1,293.5	1,290.1	2.4	2.6	124.67	-49.4	-74.6	109.0	104.3	4.71	23.149		
1,400.0	1,397.8	1,392.7	1,389.0	2.6	2.9	125.28	-55.2	-81.5	120.9	115.8	5.11	23.661		
1,500.0	1,497.5	1,492.0	1,487.9	2.9	3.1	125.79	-60.9	-88.4	132.8	127.2	5.51	24.098		
1,600.0	1,597.2	1,591.3	1,586.8	3.1	3.3	126.21	-66.6	-95.2	144.6	138.7	5.91	24.474		
1,700.0	1,696.9	1,690.6	1,685.7	3.3	3.6	126.57	-72.3	-102.1	156.5	150.2	6.31	24.802		
1,800.0	1,796.6	1,789.9	1,784.5	3.5	3.8	126.88	-78.1	-109.0	168.4	161.7	6.71	25.090		
1,900.0	1,896.3	1,889.2	1,883.4	3.7	4.0	127.15	-83.8	-115.8	180.3	173.2	7.11	25.345		
2,000.0	1,995.9	1,988.5	1,982.3	4.0	4.3	127.38	-89.5	-122.7	192.2	184.7	7.52	25.572		
2,100.0	2,095.6	2,087.8	2,081.2	4.2	4.5	127.59	-95.2	-129.6	204.1	196.2	7.92	25.775		
2,200.0	2,195.3	2,187.0	2,180.1	4.4	4.7	127.77	-101.0	-136.4	216.0	207.7	8.32	25.959		
2,300.0	2,295.0	2,286.3	2,279.0	4.6	4.9	127.94	-106.7	-143.3	227.9	219.2	8.72	26.125		
2,400.0	2,394.7	2,385.6	2,377.8	4.8	5.2	128.08	-112.4	-150.2	239.8	230.7	9.13	26.276		
2,500.0	2,494.4	2,484.9	2,476.7	5.1	5.4	128.22	-118.1	-157.1	251.7	242.2	9.53	26.414		
2,600.0	2,594.1	2,584.2	2,575.6	5.3	5.6	128.34	-123.9	-163.9	263.6	253.7	9.93	26.541		
2,700.0	2,693.8	2,683.5	2,674.5	5.5	5.9	128.45	-129.6	-170.8	275.5	265.2	10.33	26.658		
2,800.0	2,793.4	2,782.8	2,773.4	5.7	6.1	128.56	-135.3	-177.7	287.4	276.7	10.74	26.766		
2,900.0	2,893.1	2,882.0	2,872.3	5.9	6.3	128.65	-141.0	-184.5	299.3	288.2	11.14	26.866		
3,000.0	2,992.8	2,981.3	2,971.1	6.2	6.6	128.74	-146.8	-191.4	311.2	299.7	11.54	26.959		
3,100.0	3,092.5	3,080.6	3,070.0	6.4	6.8	128.82	-152.5	-198.3	323.1	311.2	11.95	27.046		
3,200.0	3,192.2	3,179.9	3,168.9	6.6	7.0	128.89	-158.2	-205.1	335.1	322.7	12.35	27.126		
3,300.0	3,291.9	3,279.2	3,267.8	6.8	7.3	128.96	-163.9	-212.0	347.0	334.2	12.76	27.202		
3,400.0	3,391.6	3,378.5	3,366.7	7.1	7.5	129.03	-169.6	-218.9	358.9	345.7	13.16	27.273		
3,500.0	3,491.3	3,477.8	3,465.6	7.3	7.7	129.09	-175.4	-225.7	370.8	357.2	13.56	27.340		
3,600.0	3,590.9	3,577.1	3,564.4	7.5	8.0	129.15	-181.1	-232.6	382.7	368.7	13.97	27.403		
3,700.0	3,690.6	3,676.3	3,663.3	7.7	8.2	129.20	-186.8	-239.5	394.6	380.2	14.37	27.462		
3,800.0	3,790.3	3,775.6	3,762.2	7.9	8.4	129.25	-192.5	-246.4	406.5	391.8	14.77	27.518		
3,900.0	3,890.0	3,874.9	3,861.1	8.2	8.7	129.30	-198.3	-253.2	418.4	403.3	15.18	27.571		
4,000.0	3,989.7	3,974.2	3,960.0	8.4	8.9	129.34	-204.0	-260.1	430.4	414.8	15.58	27.621		
4,100.0	4,089.4	4,073.5	4,058.9	8.6	9.1	129.39	-209.7	-267.0	442.3	426.3	15.98	27.668		
4,200.0	4,189.1	4,172.8	4,157.7	8.8	9.4	129.43	-215.4	-273.8	454.2	437.8	16.39	27.714		
4,300.0	4,288.8	4,272.1	4,256.6	9.1	9.6	129.46	-221.2	-280.7	466.1	449.3	16.79	27.757		
4,400.0	4,388.4	4,371.4	4,355.5	9.3	9.8	129.50	-226.9	-287.6	478.0	460.8	17.20	27.798		
4,500.0	4,488.1	4,470.6	4,454.4	9.5	10.1	129.53	-232.6	-294.4	489.9	472.3	17.60	27.837		
4,600.0	4,587.8	4,569.9	4,553.3	9.7	10.3	129.57	-238.3	-301.3	501.9	483.8	18.00	27.874		
4,700.0	4,687.5	4,669.2	4,652.2	9.9	10.5	129.60	-244.1	-308.2	513.8	495.4	18.41	27.910		
4,800.0	4,787.2	4,768.5	4,751.0	10.2	10.8	129.63	-249.8	-315.0	525.7	506.9	18.81	27.944		
4,900.0	4,886.9	4,867.8	4,849.9	10.4	11.0	129.66	-255.5	-321.9	537.6	518.4	19.22	27.976		
5,000.0	4,986.6	4,967.1	4,948.8	10.6	11.2	129.69	-261.2	-328.8	549.5	529.9	19.62	28.008		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,100.0	5,086.3	5,066.4	5,047.7	10.8	11.5	129.71	-267.0	-335.6	561.4	541.4	20.02	28.038		
5,200.0	5,185.9	5,165.7	5,146.6	11.0	11.7	129.74	-272.7	-342.5	573.3	552.9	20.43	28.066		
5,300.0	5,285.6	5,264.9	5,245.5	11.3	11.9	129.76	-278.4	-349.4	585.3	564.4	20.83	28.094		
5,400.0	5,385.3	5,364.2	5,344.3	11.5	12.2	129.78	-284.1	-356.3	597.2	575.9	21.24	28.121		
5,500.0	5,485.0	5,463.5	5,443.2	11.7	12.4	129.81	-289.9	-363.1	609.1	587.5	21.64	28.146		
5,562.6	5,547.4	5,525.7	5,505.2	11.9	12.6	129.82	-293.4	-367.4	616.6	594.7	21.89	28.162		
5,600.0	5,584.7	5,562.8	5,542.1	11.9	12.6	129.85	-295.6	-370.0	620.9	598.9	22.05	28.164		
5,700.0	5,684.5	5,662.2	5,641.1	12.1	12.9	129.85	-301.3	-376.9	631.9	609.4	22.45	28.152		
5,800.0	5,784.4	5,761.7	5,740.2	12.3	13.1	129.72	-307.0	-383.8	641.7	618.9	22.83	28.111		
5,900.0	5,884.3	5,861.8	5,840.0	12.5	13.3	129.54	-312.4	-390.2	648.9	625.7	23.21	27.952		
6,000.0	5,984.3	6,002.9	5,981.0	12.6	13.5	129.46	-314.6	-392.8	651.8	628.2	23.57	27.656		
6,015.7	6,000.0	6,021.9	6,000.0	12.6	13.5	-89.97	-314.6	-392.8	651.8	628.2	23.62	27.596		
6,100.0	6,084.3	6,106.2	6,084.3	12.8	13.7	-89.97	-314.6	-392.8	651.8	627.9	23.88	27.294		
6,200.0	6,184.3	6,206.2	6,184.3	12.9	13.8	-89.97	-314.6	-392.8	651.8	627.6	24.19	26.944		
6,300.0	6,284.3	6,306.2	6,284.3	13.1	13.9	-89.97	-314.6	-392.8	651.8	627.3	24.50	26.602		
6,400.0	6,384.3	6,406.2	6,384.3	13.2	14.1	-89.90	-313.9	-392.8	651.8	627.0	24.80	26.279		
6,407.3	6,391.7	6,413.5	6,391.7	13.2	14.1	-89.87	-313.5	-392.8	651.8	627.0	24.82	26.261		
6,500.0	6,484.3	6,504.3	6,481.4	13.4	14.1	-88.75	-300.7	-392.8	652.0	627.0	25.00	26.077		
6,604.7	6,589.0	6,600.0	6,572.6	13.5	14.0	-86.23	-272.1	-392.8	653.4	628.3	25.11	26.017		
6,650.0	6,634.3	6,637.9	6,607.2	13.6	14.0	-84.87	-256.6	-392.7	654.7	629.6	25.11	26.071		
6,700.0	6,683.9	6,679.4	6,643.9	13.6	13.9	-83.38	-237.1	-392.7	656.7	631.6	25.07	26.189		
6,750.0	6,732.8	6,720.1	6,678.3	13.6	13.9	-81.94	-215.4	-392.7	659.0	634.0	25.00	26.361		
6,800.0	6,780.6	6,760.0	6,710.4	13.5	13.8	-80.55	-191.8	-392.6	661.6	636.7	24.89	26.576		
6,850.0	6,826.9	6,800.0	6,741.0	13.5	13.8	-79.21	-166.0	-392.6	664.4	639.6	24.77	26.825		
6,900.0	6,871.4	6,837.8	6,768.2	13.4	13.8	-77.99	-139.7	-392.5	667.3	642.7	24.63	27.089		
6,950.0	6,913.8	6,875.9	6,793.7	13.4	13.8	-76.82	-111.4	-392.5	670.4	645.9	24.50	27.360		
7,000.0	6,953.7	6,913.6	6,817.0	13.3	13.8	-75.73	-81.9	-392.4	673.4	649.0	24.38	27.622		
7,050.0	6,990.8	6,950.0	6,837.7	13.3	13.8	-74.75	-51.9	-392.4	676.4	652.1	24.28	27.853		
7,100.0	7,024.9	6,987.6	6,857.0	13.2	13.8	-73.83	-19.6	-392.3	679.2	655.0	24.23	28.036		
7,150.0	7,055.7	7,024.2	6,873.7	13.3	13.9	-73.02	12.9	-392.3	681.8	657.6	24.23	28.140		
7,200.0	7,082.9	7,060.5	6,888.3	13.3	14.0	-72.32	46.1	-392.2	684.2	659.9	24.28	28.181		
7,250.0	7,106.3	7,100.0	6,901.6	13.4	14.1	-71.68	83.3	-392.2	686.3	661.9	24.41	28.113		
7,300.0	7,125.8	7,132.5	6,910.7	13.5	14.2	-71.22	114.5	-392.1	688.1	663.5	24.63	27.936		
7,350.0	7,141.2	7,168.3	6,918.5	13.7	14.4	-70.83	149.4	-392.0	689.5	664.5	24.94	27.645		
7,400.0	7,152.4	7,200.0	6,923.7	14.0	14.6	-70.56	180.7	-392.0	690.5	665.2	25.32	27.270		
7,450.0	7,159.4	7,239.5	6,927.7	14.3	14.8	-70.37	220.0	-391.9	691.1	665.3	25.85	26.734		
7,504.7	7,162.0	7,278.6	6,929.0	14.7	15.1	-70.31	259.1	-391.9	691.3	664.8	26.51	26.078		
7,600.0	7,162.0	7,373.9	6,929.0	15.4	15.9	-70.30	354.4	-391.7	691.1	663.1	28.08	24.610		
7,700.0	7,162.0	7,473.9	6,929.0	16.4	16.8	-70.30	454.4	-391.5	691.0	661.0	29.99	23.041		
7,800.0	7,162.0	7,573.9	6,929.0	17.5	17.8	-70.29	554.4	-391.4	690.8	658.7	32.12	21.507		
7,900.0	7,162.0	7,673.9	6,929.0	18.7	19.0	-70.29	654.4	-391.2	690.7	656.2	34.44	20.054		
8,000.0	7,162.0	7,773.9	6,929.0	20.0	20.3	-70.28	754.4	-391.0	690.5	653.6	36.91	18.709		
8,100.0	7,162.0	7,873.9	6,929.0	21.3	21.6	-70.28	854.4	-390.9	690.4	650.9	39.50	17.477		
8,200.0	7,162.0	7,973.9	6,929.0	22.7	23.0	-70.27	954.4	-390.7	690.2	648.0	42.19	16.359		
8,300.0	7,162.0	8,073.9	6,929.0	24.1	24.4	-70.27	1,054.4	-390.5	690.0	645.1	44.96	15.347		
8,400.0	7,162.0	8,173.9	6,929.0	25.6	25.8	-70.26	1,154.4	-390.4	689.9	642.1	47.80	14.432		
8,500.0	7,162.0	8,273.9	6,929.0	27.1	27.3	-70.26	1,254.4	-390.2	689.7	639.0	50.70	13.604		
8,600.0	7,162.0	8,373.9	6,929.0	28.7	28.9	-70.26	1,354.4	-390.0	689.6	635.9	53.64	12.855		
8,700.0	7,162.0	8,473.9	6,929.0	30.2	30.4	-70.25	1,454.4	-389.9	689.4	632.8	56.63	12.175		
8,800.0	7,162.0	8,573.9	6,929.0	31.8	32.0	-70.25	1,554.4	-389.7	689.2	629.6	59.64	11.556		
8,900.0	7,162.0	8,673.9	6,929.0	33.4	33.6	-70.24	1,654.4	-389.5	689.1	626.4	62.69	10.993		
9,000.0	7,162.0	8,773.9	6,929.0	35.0	35.2	-70.24	1,754.4	-389.3	688.9	623.2	65.76	10.477		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4C-20H-O264 - 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)			
9,100.0	7,162.0	8,873.9	6,929.0	36.7	36.8	-70.23	1,854.4	-389.2	688.8	619.9	68.85	10.004	
9,200.0	7,162.0	8,973.9	6,929.0	38.3	38.4	-70.23	1,954.4	-389.0	688.6	616.7	71.96	9.570	
9,300.0	7,162.0	9,073.9	6,929.0	40.0	40.1	-70.22	2,054.4	-388.8	688.5	613.4	75.08	9.169	
9,400.0	7,162.0	9,173.9	6,929.0	41.6	41.7	-70.22	2,154.4	-388.7	688.3	610.1	78.22	8.799	
9,500.0	7,162.0	9,273.9	6,929.0	43.3	43.4	-70.21	2,254.4	-388.5	688.1	606.8	81.38	8.456	
9,600.0	7,162.0	9,373.9	6,929.0	45.0	45.1	-70.21	2,354.4	-388.3	688.0	603.4	84.54	8.138	
9,700.0	7,162.0	9,473.9	6,929.0	46.6	46.7	-70.20	2,454.4	-388.2	687.8	600.1	87.72	7.842	
9,800.0	7,162.0	9,573.9	6,929.0	48.3	48.4	-70.20	2,554.4	-388.0	687.7	596.8	90.90	7.565	
9,900.0	7,162.0	9,673.9	6,929.0	50.0	50.1	-70.19	2,654.4	-387.8	687.5	593.4	94.09	7.307	
10,000.0	7,162.0	9,773.9	6,929.0	51.7	51.8	-70.19	2,754.4	-387.7	687.4	590.1	97.29	7.065	
10,100.0	7,162.0	9,873.9	6,929.0	53.4	53.5	-70.18	2,854.4	-387.5	687.2	586.7	100.49	6.838	
10,200.0	7,162.0	9,973.9	6,929.0	55.1	55.2	-70.18	2,954.4	-387.3	687.0	583.3	103.70	6.625	
10,300.0	7,162.0	10,073.9	6,929.0	56.8	56.9	-70.17	3,054.4	-387.2	686.9	580.0	106.92	6.424	
10,400.0	7,162.0	10,173.9	6,929.0	58.5	58.6	-70.17	3,154.4	-387.0	686.7	576.6	110.14	6.235	
10,500.0	7,162.0	10,273.9	6,929.0	60.2	60.3	-70.17	3,254.4	-386.8	686.6	573.2	113.36	6.056	
10,600.0	7,162.0	10,373.9	6,929.0	61.9	62.0	-70.16	3,354.4	-386.7	686.4	569.8	116.59	5.887	
10,700.0	7,162.0	10,473.9	6,929.0	63.7	63.7	-70.16	3,454.4	-386.5	686.2	566.4	119.82	5.727	
10,800.0	7,162.0	10,573.9	6,929.0	65.4	65.4	-70.15	3,554.4	-386.3	686.1	563.0	123.06	5.575	
10,900.0	7,162.0	10,673.9	6,929.0	67.1	67.1	-70.15	3,654.4	-386.2	685.9	559.6	126.30	5.431	
11,000.0	7,162.0	10,773.9	6,929.0	68.8	68.9	-70.14	3,754.4	-386.0	685.8	556.2	129.54	5.294	
11,100.0	7,162.0	10,873.9	6,929.0	70.5	70.6	-70.14	3,854.4	-385.8	685.6	552.8	132.78	5.163	
11,150.0	7,162.0	10,923.9	6,929.0	71.4	71.4	-70.13	3,904.4	-385.7	685.5	551.1	134.41	5.100	
11,200.0	7,162.0	10,973.9	6,929.0	72.2	72.3	-70.11	3,954.4	-385.7	684.8	548.8	136.00	5.036	
11,300.0	7,162.0	11,073.8	6,929.0	74.0	74.0	-69.90	4,054.2	-385.5	679.7	540.9	138.78	4.898	
11,400.0	7,162.0	11,173.2	6,929.0	75.7	75.7	-69.47	4,153.6	-385.3	669.6	528.7	141.00	4.749	
11,500.0	7,162.0	11,271.9	6,929.0	77.3	77.4	-68.82	4,252.3	-385.2	654.7	512.1	142.58	4.592	
11,600.0	7,162.0	11,369.6	6,929.0	79.0	79.1	-67.90	4,350.1	-385.0	635.0	491.5	143.47	4.426	
11,700.0	7,162.0	11,466.1	6,929.0	80.7	80.8	-66.68	4,446.5	-384.8	610.6	467.0	143.56	4.253	
11,747.9	7,162.0	11,508.6	6,929.0	81.4	81.5	-66.00	4,489.1	-384.8	597.3	454.1	143.28	4.169 SF	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - 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	-86.80	0.4	-7.3	7.3					
100.0	100.0	100.0	100.0	0.1	0.1	-86.80	0.4	-7.3	7.3	7.0	0.24	29.805		
200.0	200.0	200.0	200.0	0.3	0.3	-86.80	0.4	-7.3	7.3	6.7	0.59	12.273		
300.0	300.0	300.0	300.0	0.5	0.5	-86.80	0.4	-7.3	7.3	6.3	0.94	7.727		
339.7	339.7	339.7	339.7	0.5	0.5	-86.80	0.4	-7.3	7.3	6.2	1.08	6.737	CC	
400.0	400.0	400.0	400.0	0.6	0.6	-88.50	0.2	-7.3	7.3	6.0	1.29	5.660	ES	
500.0	500.0	500.0	499.9	0.8	0.8	123.43	-1.5	-7.6	8.2	6.6	1.64	4.989		
600.0	600.0	599.9	599.8	1.0	1.0	117.05	-5.0	-8.2	10.6	8.6	2.00	5.317		
700.0	699.9	699.7	699.5	1.2	1.2	113.21	-10.1	-9.0	14.6	12.2	2.37	6.161		
800.0	799.7	799.6	799.2	1.4	1.4	113.74	-16.0	-10.0	19.6	16.9	2.75	7.130		
853.0	852.6	852.5	852.0	1.5	1.5	115.55	-19.2	-10.5	22.6	19.6	2.96	7.632		
900.0	899.4	899.4	898.8	1.6	1.6	117.26	-21.9	-11.0	25.3	22.1	3.14	8.055		
1,000.0	999.1	999.2	998.5	1.8	1.8	119.90	-27.9	-12.0	31.2	27.6	3.53	8.817		
1,100.0	1,098.8	1,099.0	1,098.1	2.0	2.0	121.70	-33.8	-13.0	37.1	33.1	3.93	9.431		
1,200.0	1,198.4	1,198.9	1,197.7	2.2	2.2	123.01	-39.7	-14.0	43.0	38.7	4.33	9.935		
1,300.0	1,298.1	1,298.7	1,297.4	2.4	2.4	123.99	-45.6	-15.0	49.0	44.2	4.73	10.355		
1,400.0	1,397.8	1,398.5	1,397.0	2.6	2.6	124.77	-51.5	-15.9	54.9	49.8	5.13	10.710		
1,500.0	1,497.5	1,498.3	1,496.7	2.9	2.8	125.39	-57.4	-16.9	60.9	55.4	5.53	11.013		
1,600.0	1,597.2	1,598.1	1,596.3	3.1	3.0	125.90	-63.4	-17.9	66.9	61.0	5.93	11.275		
1,700.0	1,696.9	1,698.0	1,695.9	3.3	3.2	126.33	-69.3	-18.9	72.9	66.5	6.33	11.503		
1,800.0	1,796.6	1,797.8	1,795.6	3.5	3.4	126.69	-75.2	-19.9	78.9	72.1	6.74	11.704		
1,900.0	1,896.3	1,897.6	1,895.2	3.7	3.6	127.00	-81.1	-20.9	84.8	77.7	7.14	11.882		
2,000.0	1,995.9	1,997.4	1,994.9	4.0	3.8	127.27	-87.0	-21.9	90.8	83.3	7.54	12.041		
2,100.0	2,095.6	2,097.2	2,094.5	4.2	4.0	127.50	-92.9	-22.9	96.8	88.9	7.95	12.184		
2,200.0	2,195.3	2,197.1	2,194.1	4.4	4.2	127.71	-98.9	-23.8	102.8	94.5	8.35	12.313		
2,300.0	2,295.0	2,296.9	2,293.8	4.6	4.4	127.90	-104.8	-24.8	108.8	100.1	8.76	12.430		
2,400.0	2,394.7	2,396.7	2,393.4	4.8	4.6	128.07	-110.7	-25.8	114.8	105.7	9.16	12.536		
2,500.0	2,494.4	2,496.5	2,493.0	5.1	4.8	128.21	-116.6	-26.8	120.8	111.3	9.56	12.633		
2,600.0	2,594.1	2,596.3	2,592.7	5.3	5.0	128.35	-122.5	-27.8	126.8	116.9	9.97	12.723		
2,700.0	2,693.8	2,696.2	2,692.3	5.5	5.2	128.47	-128.4	-28.8	132.8	122.5	10.37	12.805		
2,800.0	2,793.4	2,796.0	2,792.0	5.7	5.4	128.59	-134.4	-29.8	138.8	128.1	10.78	12.881		
2,900.0	2,893.1	2,895.8	2,891.6	5.9	5.6	128.69	-140.3	-30.8	144.8	133.7	11.18	12.952		
3,000.0	2,992.8	2,995.6	2,991.2	6.2	5.8	128.79	-146.2	-31.7	150.8	139.3	11.59	13.017		
3,100.0	3,092.5	3,095.4	3,090.9	6.4	6.0	128.87	-152.1	-32.7	156.8	144.8	11.99	13.078		
3,200.0	3,192.2	3,195.2	3,190.5	6.6	6.2	128.95	-158.0	-33.7	162.8	150.4	12.40	13.135		
3,300.0	3,291.9	3,295.1	3,290.2	6.8	6.4	129.03	-163.9	-34.7	168.8	156.0	12.80	13.189		
3,400.0	3,391.6	3,394.9	3,389.8	7.1	6.6	129.10	-169.8	-35.7	174.9	161.6	13.21	13.239		
3,500.0	3,491.3	3,494.7	3,489.4	7.3	6.8	129.17	-175.8	-36.7	180.9	167.2	13.61	13.286		
3,600.0	3,590.9	3,594.5	3,589.1	7.5	7.0	129.23	-181.7	-37.7	186.9	172.8	14.02	13.330		
3,700.0	3,690.6	3,694.3	3,688.7	7.7	7.2	129.29	-187.6	-38.7	192.9	178.4	14.42	13.372		
3,800.0	3,790.3	3,794.2	3,788.4	7.9	7.4	129.34	-193.5	-39.7	198.9	184.0	14.83	13.412		
3,900.0	3,890.0	3,894.0	3,888.0	8.2	7.6	129.39	-199.4	-40.6	204.9	189.6	15.23	13.449		
4,000.0	3,989.7	3,993.8	3,987.6	8.4	7.8	129.44	-205.3	-41.6	210.9	195.2	15.64	13.485		
4,100.0	4,089.4	4,093.6	4,087.3	8.6	8.0	129.48	-211.3	-42.6	216.9	200.8	16.04	13.519		
4,200.0	4,189.1	4,193.4	4,186.9	8.8	8.2	129.53	-217.2	-43.6	222.9	206.4	16.45	13.551		
4,300.0	4,288.8	4,293.3	4,286.6	9.1	8.4	129.57	-223.1	-44.6	228.9	212.0	16.85	13.581		
4,400.0	4,388.4	4,393.1	4,386.2	9.3	8.7	129.61	-229.0	-45.6	234.9	217.6	17.26	13.610		
4,500.0	4,488.1	4,492.9	4,485.8	9.5	8.9	129.64	-234.9	-46.6	240.9	223.2	17.66	13.638		
4,600.0	4,587.8	4,592.7	4,585.5	9.7	9.1	129.68	-240.8	-47.6	246.9	228.8	18.07	13.664		
4,700.0	4,687.5	4,692.5	4,685.1	9.9	9.3	129.71	-246.8	-48.5	252.9	234.4	18.48	13.689		
4,800.0	4,787.2	4,792.4	4,784.7	10.2	9.5	129.74	-252.7	-49.5	258.9	240.0	18.88	13.714		
4,900.0	4,886.9	4,892.2	4,884.4	10.4	9.7	129.77	-258.6	-50.5	264.9	245.6	19.29	13.737		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - 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		
5,000.0	4,986.6	4,992.0	4,984.0	10.6	9.9	129.80	-264.5	-51.5	270.9	251.2	19.69	13.759		
5,100.0	5,086.3	5,091.8	5,083.7	10.8	10.1	129.83	-270.4	-52.5	276.9	256.8	20.10	13.780		
5,200.0	5,185.9	5,191.6	5,183.3	11.0	10.3	129.86	-276.3	-53.5	282.9	262.4	20.50	13.801		
5,300.0	5,285.6	5,291.5	5,282.9	11.3	10.5	129.88	-282.2	-54.5	289.0	268.0	20.91	13.820		
5,400.0	5,385.3	5,391.3	5,382.6	11.5	10.7	129.91	-288.2	-55.5	295.0	273.6	21.31	13.839		
5,500.0	5,485.0	5,491.1	5,482.2	11.7	10.9	129.93	-294.1	-56.4	301.0	279.2	21.72	13.857		
5,562.6	5,547.4	5,553.6	5,544.6	11.9	11.0	129.94	-297.8	-57.1	304.7	282.8	21.97	13.868		
5,600.0	5,584.7	5,590.9	5,581.9	11.9	11.1	129.95	-300.0	-57.4	306.9	284.8	22.12	13.871		
5,700.0	5,684.5	5,691.0	5,681.8	12.1	11.3	129.81	-305.9	-58.4	311.9	289.4	22.52	13.848		
5,800.0	5,784.4	5,791.8	5,782.5	12.3	11.5	129.64	-310.5	-59.2	315.6	292.7	22.89	13.786		
5,900.0	5,884.3	5,892.7	5,883.3	12.5	11.6	129.54	-313.4	-59.7	317.9	294.7	23.24	13.682		
6,000.0	5,984.3	5,993.6	5,984.2	12.6	11.8	129.50	-314.6	-59.9	318.9	295.3	23.55	13.540		
6,015.7	6,000.0	6,009.4	6,000.0	12.6	11.8	-89.93	-314.6	-59.9	318.9	295.3	23.60	13.513		
6,100.0	6,084.3	6,093.7	6,084.3	12.8	12.0	-89.93	-314.6	-59.9	318.9	295.0	23.86	13.365		
6,200.0	6,184.3	6,193.7	6,184.3	12.9	12.1	-89.93	-314.6	-59.9	318.9	294.7	24.17	13.194		
6,300.0	6,284.3	6,293.7	6,284.3	13.1	12.3	-89.93	-314.6	-59.9	318.9	294.4	24.48	13.026		
6,400.0	6,384.3	6,393.7	6,384.3	13.2	12.4	-89.93	-314.6	-59.9	318.9	294.1	24.79	12.862		
6,457.0	6,441.4	6,450.7	6,441.4	13.3	12.5	-89.93	-314.6	-59.9	318.9	293.9	24.97	12.770		
6,500.0	6,484.3	6,493.7	6,484.2	13.4	12.6	-89.73	-313.5	-59.9	318.9	293.8	25.08	12.714		
6,604.7	6,589.0	6,595.6	6,584.9	13.5	12.6	-86.99	-298.3	-59.9	319.3	294.2	25.18	12.681		
6,650.0	6,634.3	6,638.0	6,625.7	13.6	12.6	-85.14	-286.7	-59.9	320.1	294.9	25.14	12.730		
6,700.0	6,683.9	6,684.0	6,668.8	13.6	12.5	-83.15	-270.8	-59.9	321.3	296.2	25.06	12.822		
6,750.0	6,732.8	6,729.2	6,709.8	13.6	12.5	-81.23	-251.8	-59.9	322.8	297.9	24.94	12.946		
6,800.0	6,780.6	6,773.7	6,748.7	13.5	12.4	-79.40	-230.0	-59.9	324.7	299.9	24.79	13.095		
6,850.0	6,826.9	6,817.6	6,785.2	13.5	12.3	-77.66	-205.6	-59.9	326.7	302.1	24.64	13.262		
6,900.0	6,871.4	6,861.0	6,819.3	13.4	12.3	-76.03	-178.9	-59.9	328.9	304.5	24.47	13.440		
6,950.0	6,913.8	6,903.8	6,850.9	13.4	12.3	-74.51	-150.1	-59.9	331.3	306.9	24.32	13.621		
7,000.0	6,953.7	6,946.1	6,879.9	13.3	12.2	-73.11	-119.3	-59.9	333.6	309.4	24.18	13.796		
7,050.0	6,990.8	6,988.1	6,906.4	13.3	12.2	-71.83	-86.8	-59.9	336.0	311.9	24.08	13.954		
7,100.0	7,024.9	7,029.6	6,930.2	13.2	12.3	-70.69	-52.7	-59.9	338.2	314.2	24.01	14.087		
7,150.0	7,055.7	7,070.9	6,951.4	13.3	12.3	-69.67	-17.3	-59.9	340.3	316.3	23.99	14.185		
7,200.0	7,082.9	7,111.9	6,969.8	13.3	12.4	-68.78	19.4	-59.9	342.3	318.3	24.03	14.243		
7,250.0	7,106.3	7,150.0	6,984.5	13.4	12.5	-68.07	54.5	-59.9	344.0	319.9	24.13	14.254		
7,300.0	7,125.8	7,193.2	6,998.3	13.5	12.7	-67.42	95.4	-59.9	345.5	321.1	24.33	14.197		
7,350.0	7,141.2	7,233.6	7,008.5	13.7	12.9	-66.94	134.6	-59.9	346.6	322.0	24.61	14.083		
7,400.0	7,152.4	7,273.9	7,015.8	14.0	13.1	-66.59	174.2	-59.9	347.5	322.5	24.98	13.910		
7,450.0	7,159.4	7,314.2	7,020.3	14.3	13.4	-66.38	214.1	-59.9	348.0	322.6	25.44	13.680		
7,504.7	7,162.0	7,358.4	7,022.0	14.7	13.7	-66.30	258.4	-59.9	348.2	322.2	26.05	13.370		
7,536.8	7,162.0	7,390.2	7,022.0	14.9	14.0	-66.30	290.1	-59.9	348.2	321.7	26.54	13.119		
7,600.0	7,162.0	7,453.4	7,022.0	15.4	14.6	-66.30	353.3	-59.9	348.2	320.6	27.58	12.625		
7,700.0	7,162.0	7,553.4	7,022.0	16.4	15.6	-66.30	453.3	-59.9	348.2	318.8	29.43	11.830		
7,800.0	7,162.0	7,653.4	7,022.0	17.5	16.7	-66.30	553.3	-59.9	348.2	316.7	31.51	11.052		
7,900.0	7,162.0	7,753.4	7,022.0	18.7	18.0	-66.30	653.3	-59.9	348.2	314.5	33.76	10.314		
8,000.0	7,162.0	7,853.4	7,022.0	20.0	19.3	-66.30	753.3	-59.9	348.2	312.1	36.16	9.630		
8,100.0	7,162.0	7,953.4	7,022.0	21.3	20.7	-66.30	853.3	-59.9	348.2	309.5	38.68	9.003		
8,200.0	7,162.0	8,053.4	7,022.0	22.7	22.1	-66.30	953.3	-59.9	348.2	306.9	41.29	8.433		
8,300.0	7,162.0	8,153.4	7,022.0	24.1	23.6	-66.30	1,053.3	-59.9	348.2	304.2	43.99	7.916		
8,400.0	7,162.0	8,253.4	7,022.0	25.6	25.1	-66.30	1,153.3	-59.9	348.2	301.5	46.75	7.449		
8,500.0	7,162.0	8,353.4	7,022.0	27.1	26.6	-66.30	1,253.3	-59.9	348.2	298.7	49.57	7.025		
8,600.0	7,162.0	8,453.4	7,022.0	28.7	28.2	-66.30	1,353.3	-59.9	348.2	295.8	52.43	6.642		
8,700.0	7,162.0	8,553.4	7,022.0	30.2	29.8	-66.30	1,453.3	-59.9	348.2	292.9	55.33	6.294		
8,800.0	7,162.0	8,653.4	7,022.0	31.8	31.4	-66.30	1,553.3	-59.9	348.2	290.0	58.26	5.977		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4D-20H-O264 - 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	
8,900.0	7,162.0	8,753.4	7,022.0	33.4	33.0	-66.30	1,653.3	-59.9	348.2	287.0	61.23	5.687	
9,000.0	7,162.0	8,853.4	7,022.0	35.0	34.6	-66.30	1,753.3	-59.9	348.2	284.0	64.21	5.423	
9,100.0	7,162.0	8,953.4	7,022.0	36.7	36.3	-66.30	1,853.3	-59.9	348.2	281.0	67.22	5.180	
9,200.0	7,162.0	9,053.4	7,022.0	38.3	37.9	-66.30	1,953.3	-59.9	348.2	278.0	70.25	4.957	
9,300.0	7,162.0	9,153.4	7,022.0	40.0	39.6	-66.30	2,053.3	-59.9	348.2	274.9	73.29	4.751	
9,400.0	7,162.0	9,253.4	7,022.0	41.6	41.3	-66.30	2,153.3	-59.9	348.2	271.9	76.35	4.561	
9,500.0	7,162.0	9,353.4	7,022.0	43.3	43.0	-66.30	2,253.3	-59.9	348.2	268.8	79.42	4.385	
9,600.0	7,162.0	9,453.4	7,022.0	45.0	44.6	-66.30	2,353.3	-59.9	348.2	265.7	82.50	4.221	
9,700.0	7,162.0	9,553.4	7,022.0	46.6	46.3	-66.30	2,453.3	-59.9	348.2	262.6	85.59	4.068	
9,800.0	7,162.0	9,653.4	7,022.0	48.3	48.0	-66.30	2,553.3	-59.9	348.2	259.5	88.69	3.926	
9,900.0	7,162.0	9,753.4	7,022.0	50.0	49.7	-66.30	2,653.3	-59.9	348.2	256.4	91.80	3.793	
10,000.0	7,162.0	9,853.4	7,022.0	51.7	51.4	-66.30	2,753.3	-59.9	348.2	253.3	94.91	3.669	
10,100.0	7,162.0	9,953.4	7,022.0	53.4	53.1	-66.30	2,853.3	-59.8	348.2	250.2	98.03	3.552	
10,200.0	7,162.0	10,053.4	7,022.0	55.1	54.8	-66.30	2,953.3	-59.8	348.2	247.1	101.16	3.442	
10,300.0	7,162.0	10,153.4	7,022.0	56.8	56.5	-66.30	3,053.3	-59.8	348.2	243.9	104.29	3.339	
10,400.0	7,162.0	10,253.4	7,022.0	58.5	58.3	-66.30	3,153.3	-59.8	348.2	240.8	107.43	3.241	
10,500.0	7,162.0	10,353.4	7,022.0	60.2	60.0	-66.30	3,253.3	-59.8	348.2	237.6	110.57	3.149	
10,600.0	7,162.0	10,453.4	7,022.0	61.9	61.7	-66.30	3,353.3	-59.8	348.2	234.5	113.72	3.062	
10,700.0	7,162.0	10,553.4	7,022.0	63.7	63.4	-66.30	3,453.3	-59.8	348.2	231.3	116.87	2.980	
10,800.0	7,162.0	10,653.4	7,022.0	65.4	65.1	-66.30	3,553.3	-59.8	348.2	228.2	120.02	2.901	
10,900.0	7,162.0	10,753.4	7,022.0	67.1	66.9	-66.30	3,653.3	-59.8	348.2	225.0	123.18	2.827	
11,000.0	7,162.0	10,853.4	7,022.0	68.8	68.6	-66.30	3,753.3	-59.8	348.2	221.9	126.34	2.756	
11,100.0	7,162.0	10,953.4	7,022.0	70.5	70.3	-66.30	3,853.3	-59.8	348.2	218.7	129.50	2.689	
11,150.0	7,162.0	11,003.4	7,022.0	71.4	71.2	-66.30	3,903.3	-59.8	348.2	217.1	131.08	2.656	
11,200.0	7,162.0	11,053.4	7,022.0	72.2	72.0	-66.25	3,953.3	-59.8	347.6	215.1	132.47	2.624	
11,300.0	7,162.0	11,153.2	7,022.0	74.0	73.8	-65.83	4,053.1	-59.8	342.8	208.1	134.68	2.545	
11,400.0	7,162.0	11,252.6	7,022.0	75.7	75.5	-64.97	4,152.6	-59.8	333.2	197.1	136.03	2.449	
11,500.0	7,162.0	11,351.4	7,022.0	77.3	77.2	-63.57	4,251.3	-59.8	318.9	182.5	136.37	2.339	
11,600.0	7,162.0	11,449.1	7,022.0	79.0	78.9	-61.52	4,349.1	-59.8	300.2	164.8	135.41	2.217	
11,700.0	7,162.0	11,545.7	7,022.0	80.7	80.6	-58.60	4,445.6	-59.8	277.3	144.6	132.71	2.090	
11,747.9	7,162.0	11,590.6	7,022.0	81.4	81.3	-56.82	4,490.5	-59.8	265.1	134.5	130.62	2.029 SF	





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - HZ - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.87	0.0	7.6	7.6				
100.0	100.0	100.0	100.0	0.1	0.1	89.87	0.0	7.6	7.6	7.3	0.24	30.903	
200.0	200.0	200.0	200.0	0.3	0.3	89.87	0.0	7.6	7.6	7.0	0.59	12.725	
300.0	300.0	300.0	300.0	0.5	0.5	89.87	0.0	7.6	7.6	6.6	0.94	8.012	
400.0	400.0	400.0	400.0	0.6	0.6	89.87	0.0	7.6	7.6	6.3	1.29	5.847	
500.0	500.0	500.0	499.9	0.8	0.8	-54.98	-0.1	7.7	7.2	5.5	1.64	4.380	
594.8	594.8	594.7	594.7	1.0	1.0	-62.21	-1.1	9.0	7.0	5.0	1.98	3.545 CC	
600.0	600.0	599.9	599.8	1.0	1.0	-62.65	-1.2	9.1	7.0	5.0	1.99	3.513	
700.0	699.9	699.8	699.7	1.2	1.2	-71.71	-3.4	11.8	7.3	4.9	2.36	3.080 ES	
800.0	799.7	799.7	799.5	1.4	1.4	-80.62	-6.8	15.8	8.0	5.3	2.74	2.923	
853.0	852.6	852.7	852.4	1.5	1.5	-84.83	-9.0	18.5	8.6	5.7	2.95	2.915 SF	
900.0	899.4	899.7	899.2	1.6	1.6	-86.96	-11.2	21.2	9.3	6.1	3.14	2.945	
1,000.0	999.1	999.6	998.8	1.8	1.8	-84.03	-16.7	27.9	11.0	7.4	3.56	3.085	
1,100.0	1,098.8	1,099.6	1,098.2	2.0	2.0	-77.10	-23.0	35.5	13.1	9.2	3.97	3.310	
1,200.0	1,198.4	1,199.5	1,197.7	2.2	2.2	-72.09	-29.3	43.1	15.5	11.1	4.38	3.530	
1,300.0	1,298.1	1,299.5	1,297.2	2.4	2.5	-68.41	-35.6	50.8	17.9	13.1	4.79	3.733	
1,400.0	1,397.8	1,399.5	1,396.7	2.6	2.7	-65.61	-41.9	58.4	20.3	15.2	5.20	3.916	
1,500.0	1,497.5	1,499.4	1,496.1	2.9	2.9	-63.42	-48.2	66.1	22.9	17.3	5.60	4.079	
1,600.0	1,597.2	1,599.4	1,595.6	3.1	3.2	-61.67	-54.4	73.7	25.4	19.4	6.01	4.226	
1,700.0	1,696.9	1,699.3	1,695.1	3.3	3.4	-60.23	-60.7	81.3	27.9	21.5	6.41	4.358	
1,800.0	1,796.6	1,799.3	1,794.5	3.5	3.6	-59.04	-67.0	89.0	30.5	23.7	6.81	4.476	
1,900.0	1,896.3	1,899.3	1,894.0	3.7	3.9	-58.03	-73.3	96.6	33.1	25.9	7.22	4.583	
2,000.0	1,995.9	1,999.2	1,993.5	4.0	4.1	-57.17	-79.6	104.2	35.7	28.0	7.62	4.680	
2,100.0	2,095.6	2,099.2	2,093.0	4.2	4.4	-56.42	-85.9	111.9	38.3	30.2	8.02	4.768	
2,200.0	2,195.3	2,199.2	2,192.4	4.4	4.6	-55.77	-92.2	119.5	40.9	32.4	8.43	4.849	
2,300.0	2,295.0	2,299.1	2,291.9	4.6	4.8	-55.19	-98.5	127.2	43.5	34.6	8.83	4.922	
2,400.0	2,394.7	2,399.1	2,391.4	4.8	5.1	-54.69	-104.8	134.8	46.1	36.8	9.23	4.990	
2,500.0	2,494.4	2,499.1	2,490.9	5.1	5.3	-54.23	-111.1	142.4	48.7	39.0	9.63	5.053	
2,600.0	2,594.1	2,599.0	2,590.3	5.3	5.6	-53.82	-117.4	150.1	51.3	41.3	10.04	5.110	
2,700.0	2,693.8	2,699.0	2,689.8	5.5	5.8	-53.46	-123.6	157.7	53.9	43.5	10.44	5.164	
2,800.0	2,793.4	2,799.0	2,789.3	5.7	6.1	-53.12	-129.9	165.3	56.5	45.7	10.84	5.214	
2,900.0	2,893.1	2,898.9	2,888.8	5.9	6.3	-52.82	-136.2	173.0	59.1	47.9	11.24	5.260	
3,000.0	2,992.8	2,998.9	2,988.2	6.2	6.5	-52.54	-142.5	180.6	61.8	50.1	11.65	5.303	
3,100.0	3,092.5	3,098.9	3,087.7	6.4	6.8	-52.28	-148.8	188.3	64.4	52.3	12.05	5.344	
3,200.0	3,192.2	3,198.8	3,187.2	6.6	7.0	-52.05	-155.1	195.9	67.0	54.6	12.45	5.382	
3,300.0	3,291.9	3,298.8	3,286.7	6.8	7.3	-51.83	-161.4	203.5	69.6	56.8	12.85	5.417	
3,400.0	3,391.6	3,398.8	3,386.1	7.1	7.5	-51.63	-167.7	211.2	72.3	59.0	13.26	5.451	
3,500.0	3,491.3	3,498.7	3,485.6	7.3	7.8	-51.44	-174.0	218.8	74.9	61.2	13.66	5.483	
3,600.0	3,590.9	3,598.7	3,585.1	7.5	8.0	-51.26	-180.3	226.5	77.5	63.4	14.06	5.513	
3,700.0	3,690.6	3,698.7	3,684.6	7.7	8.3	-51.10	-186.5	234.1	80.1	65.7	14.46	5.541	
3,800.0	3,790.3	3,798.6	3,784.0	7.9	8.5	-50.94	-192.8	241.7	82.8	67.9	14.86	5.568	
3,900.0	3,890.0	3,898.6	3,883.5	8.2	8.7	-50.80	-199.1	249.4	85.4	70.1	15.27	5.593	
4,000.0	3,989.7	3,998.5	3,983.0	8.4	9.0	-50.67	-205.4	257.0	88.0	72.4	15.67	5.618	
4,100.0	4,089.4	4,098.5	4,082.5	8.6	9.2	-50.54	-211.7	264.6	90.6	74.6	16.07	5.641	
4,200.0	4,189.1	4,198.5	4,181.9	8.8	9.5	-50.42	-218.0	272.3	93.3	76.8	16.47	5.663	
4,300.0	4,288.8	4,298.4	4,281.4	9.1	9.7	-50.30	-224.3	279.9	95.9	79.0	16.88	5.683	
4,400.0	4,388.4	4,398.4	4,380.9	9.3	10.0	-50.20	-230.6	287.6	98.5	81.3	17.28	5.703	
4,500.0	4,488.1	4,498.4	4,480.4	9.5	10.2	-50.09	-236.9	295.2	101.2	83.5	17.68	5.722	
4,600.0	4,587.8	4,598.3	4,579.8	9.7	10.5	-50.00	-243.2	302.8	103.8	85.7	18.08	5.741	
4,700.0	4,687.5	4,698.3	4,679.3	9.9	10.7	-49.90	-249.4	310.5	106.4	87.9	18.48	5.758	
4,800.0	4,787.2	4,798.3	4,778.8	10.2	11.0	-49.82	-255.7	318.1	109.1	90.2	18.89	5.775	
4,900.0	4,886.9	4,898.2	4,878.3	10.4	11.2	-49.73	-262.0	325.7	111.7	92.4	19.29	5.791	

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - 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		
5,000.0	4,986.6	4,998.2	4,977.7	10.6	11.4	-49.65	-268.3	333.4	114.3	94.6	19.69	5.806		
5,100.0	5,086.3	5,098.2	5,077.2	10.8	11.7	-49.58	-274.6	341.0	117.0	96.9	20.09	5.821		
5,200.0	5,185.9	5,198.1	5,176.7	11.0	11.9	-49.50	-280.9	348.7	119.6	99.1	20.50	5.835		
5,300.0	5,285.6	5,298.1	5,276.1	11.3	12.2	-49.43	-287.2	356.3	122.2	101.3	20.90	5.849		
5,400.0	5,385.3	5,398.1	5,375.6	11.5	12.4	-49.37	-293.5	363.9	124.9	103.6	21.30	5.862		
5,500.0	5,485.0	5,498.8	5,475.9	11.7	12.7	-49.35	-299.7	371.5	127.4	105.7	21.71	5.868		
5,562.6	5,547.4	5,562.5	5,539.3	11.9	12.8	-49.54	-303.2	375.7	128.4	106.4	21.97	5.842		
5,600.0	5,584.7	5,600.6	5,577.3	11.9	12.9	-49.71	-305.1	378.0	128.8	106.7	22.13	5.819		
5,700.0	5,684.5	5,702.3	5,678.8	12.1	13.1	-50.08	-309.3	383.1	129.7	107.2	22.54	5.756		
5,800.0	5,784.4	5,804.1	5,780.5	12.3	13.3	-50.35	-312.3	386.8	130.4	107.5	22.92	5.692		
5,900.0	5,884.3	5,905.9	5,882.3	12.5	13.4	-50.51	-314.2	389.1	130.9	107.6	23.26	5.626		
6,000.0	5,984.3	6,007.7	5,984.1	12.6	13.6	-50.58	-315.0	390.0	131.0	107.5	23.57	5.559		
6,015.7	6,000.0	6,023.7	6,000.0	12.6	13.6	89.99	-315.0	390.1	131.1	107.4	23.62	5.548		
6,100.0	6,084.3	6,108.0	6,084.3	12.8	13.7	89.99	-315.0	390.1	131.1	107.2	23.88	5.487		
6,200.0	6,184.3	6,208.0	6,184.3	12.9	13.8	89.99	-315.0	390.1	131.1	106.9	24.19	5.417		
6,300.0	6,284.3	6,308.0	6,284.3	13.1	14.0	89.99	-315.0	390.1	131.1	106.5	24.51	5.348		
6,360.8	6,345.1	6,368.8	6,345.1	13.1	14.1	89.99	-315.0	390.1	131.1	106.4	24.70	5.307		
6,400.0	6,384.3	6,408.0	6,384.3	13.2	14.1	89.67	-314.2	390.1	131.1	106.2	24.83	5.277		
6,500.0	6,484.3	6,505.9	6,481.2	13.4	14.1	83.87	-300.9	390.1	131.8	106.4	25.49	5.172		
6,604.7	6,589.0	6,600.0	6,570.9	13.5	14.1	72.14	-272.8	390.1	138.9	112.5	26.41	5.259		
6,650.0	6,634.3	6,639.2	6,606.7	13.6	14.0	65.96	-256.8	390.1	145.3	118.6	26.73	5.437		
6,700.0	6,683.9	6,680.7	6,643.2	13.6	14.0	60.01	-237.2	390.1	154.0	127.1	26.88	5.728		
6,750.0	6,732.8	6,721.3	6,677.6	13.6	13.9	54.83	-215.6	390.1	163.7	136.9	26.82	6.105		
6,800.0	6,780.6	6,761.1	6,709.7	13.5	13.9	50.38	-192.0	390.1	174.1	147.5	26.56	6.554		
6,850.0	6,826.9	6,800.0	6,739.4	13.5	13.8	46.59	-166.9	390.1	184.7	158.6	26.13	7.067		
6,900.0	6,871.4	6,838.8	6,767.3	13.4	13.8	43.34	-140.0	390.1	195.3	169.7	25.56	7.640		
6,950.0	6,913.8	6,876.8	6,792.7	13.4	13.8	40.60	-111.8	390.1	205.7	180.8	24.88	8.265		
7,000.0	6,953.7	6,914.4	6,816.0	13.3	13.8	38.28	-82.3	390.1	215.6	191.4	24.12	8.939		
7,050.0	6,990.8	6,950.0	6,836.3	13.3	13.8	36.38	-53.0	390.1	224.9	201.6	23.31	9.648		
7,100.0	7,024.9	6,988.3	6,856.0	13.2	13.9	34.69	-20.1	390.1	233.5	211.0	22.46	10.393		
7,150.0	7,055.7	7,024.8	6,872.7	13.3	13.9	33.31	12.3	390.1	241.2	219.6	21.66	11.136		
7,200.0	7,082.9	7,061.1	6,887.2	13.3	14.0	32.18	45.6	390.1	248.1	227.2	20.89	11.879		
7,250.0	7,106.3	7,100.0	6,900.4	13.4	14.2	31.22	82.2	390.1	254.1	233.9	20.22	12.567		
7,300.0	7,125.8	7,133.0	6,909.6	13.5	14.3	30.53	113.8	390.1	259.0	239.3	19.71	13.144		
7,350.0	7,141.2	7,168.7	6,917.5	13.7	14.5	29.97	148.7	390.1	262.9	243.5	19.37	13.573		
7,400.0	7,152.4	7,200.0	6,922.6	14.0	14.6	29.60	179.5	390.1	265.8	246.6	19.24	13.812		
7,450.0	7,159.4	7,239.9	6,926.7	14.3	14.9	29.34	219.2	390.1	267.5	248.1	19.38	13.800		
7,504.7	7,162.0	7,278.7	6,928.0	14.7	15.1	29.26	258.0	390.1	268.2	248.3	19.81	13.534		
7,529.5	7,162.0	7,303.5	6,928.0	14.9	15.3	29.26	282.8	390.1	268.2	248.1	20.04	13.381		
7,600.0	7,162.0	7,374.0	6,928.0	15.4	15.9	29.26	353.3	390.1	268.2	247.5	20.70	12.952		
7,700.0	7,162.0	7,474.0	6,928.0	16.4	16.8	29.26	453.3	390.1	268.2	246.4	21.73	12.341		
7,800.0	7,162.0	7,574.0	6,928.0	17.5	17.9	29.26	553.3	390.1	268.2	245.3	22.84	11.739		
7,900.0	7,162.0	7,674.0	6,928.0	18.7	19.0	29.26	653.3	390.1	268.2	244.1	24.03	11.158		
8,000.0	7,162.0	7,774.0	6,928.0	20.0	20.3	29.26	753.3	390.1	268.2	242.9	25.29	10.604		
8,100.0	7,162.0	7,874.0	6,928.0	21.3	21.6	29.26	853.3	390.1	268.2	241.6	26.60	10.082		
8,200.0	7,162.0	7,974.0	6,928.0	22.7	23.0	29.26	953.3	390.1	268.2	240.2	27.96	9.592		
8,300.0	7,162.0	8,074.0	6,928.0	24.1	24.4	29.26	1,053.3	390.1	268.2	238.8	29.36	9.135		
8,400.0	7,162.0	8,174.0	6,928.0	25.6	25.9	29.26	1,153.3	390.1	268.2	237.4	30.79	8.709		
8,500.0	7,162.0	8,274.0	6,928.0	27.1	27.4	29.26	1,253.3	390.1	268.2	235.9	32.26	8.313		
8,600.0	7,162.0	8,374.0	6,928.0	28.7	28.9	29.26	1,353.3	390.1	268.2	234.4	33.75	7.945		
8,700.0	7,162.0	8,474.0	6,928.0	30.2	30.4	29.26	1,453.3	390.1	268.2	232.9	35.27	7.604		
8,800.0	7,162.0	8,574.0	6,928.0	31.8	32.0	29.26	1,553.3	390.1	268.2	231.4	36.81	7.286		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4F-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,900.0	7,162.0	8,674.0	6,928.0	33.4	33.6	29.26	1,653.3	390.1	268.2	229.8	38.36	6.991		
9,000.0	7,162.0	8,774.0	6,928.0	35.0	35.2	29.26	1,753.3	390.1	268.2	228.2	39.93	6.716		
9,100.0	7,162.0	8,874.0	6,928.0	36.7	36.8	29.26	1,853.3	390.1	268.2	226.6	41.52	6.459		
9,200.0	7,162.0	8,974.0	6,928.0	38.3	38.5	29.26	1,953.3	390.1	268.2	225.1	43.11	6.220		
9,300.0	7,162.0	9,074.0	6,928.0	40.0	40.1	29.26	2,053.3	390.1	268.2	223.4	44.72	5.996		
9,400.0	7,162.0	9,174.0	6,928.0	41.6	41.8	29.26	2,153.3	390.1	268.2	221.8	46.34	5.787		
9,500.0	7,162.0	9,274.0	6,928.0	43.3	43.4	29.26	2,253.3	390.1	268.2	220.2	47.97	5.590		
9,600.0	7,162.0	9,374.0	6,928.0	45.0	45.1	29.26	2,353.3	390.1	268.2	218.6	49.61	5.406		
9,700.0	7,162.0	9,474.0	6,928.0	46.6	46.8	29.26	2,453.3	390.1	268.2	216.9	51.25	5.232		
9,800.0	7,162.0	9,574.0	6,928.0	48.3	48.4	29.26	2,553.3	390.1	268.2	215.3	52.90	5.069		
9,900.0	7,162.0	9,674.0	6,928.0	50.0	50.1	29.26	2,653.3	390.1	268.2	213.6	54.56	4.915		
10,000.0	7,162.0	9,774.0	6,928.0	51.7	51.8	29.26	2,753.3	390.1	268.2	211.9	56.22	4.770		
10,100.0	7,162.0	9,874.0	6,928.0	53.4	53.5	29.26	2,853.3	390.1	268.2	210.3	57.89	4.633		
10,200.0	7,162.0	9,974.0	6,928.0	55.1	55.2	29.26	2,953.3	390.1	268.2	208.6	59.56	4.502		
10,300.0	7,162.0	10,074.0	6,928.0	56.8	56.9	29.26	3,053.3	390.1	268.2	206.9	61.24	4.379		
10,400.0	7,162.0	10,174.0	6,928.0	58.5	58.6	29.26	3,153.3	390.1	268.2	205.3	62.92	4.262		
10,500.0	7,162.0	10,274.0	6,928.0	60.2	60.3	29.26	3,253.3	390.1	268.2	203.6	64.60	4.151		
10,600.0	7,162.0	10,374.0	6,928.0	61.9	62.0	29.26	3,353.3	390.1	268.2	201.9	66.29	4.046		
10,700.0	7,162.0	10,474.0	6,928.0	63.7	63.7	29.26	3,453.3	390.1	268.2	200.2	67.98	3.945		
10,800.0	7,162.0	10,574.0	6,928.0	65.4	65.4	29.26	3,553.3	390.1	268.2	198.5	69.67	3.849		
10,900.0	7,162.0	10,674.0	6,928.0	67.1	67.2	29.26	3,653.3	390.1	268.2	196.8	71.37	3.758		
11,000.0	7,162.0	10,774.0	6,928.0	68.8	68.9	29.26	3,753.3	390.1	268.2	195.1	73.06	3.670		
11,100.0	7,162.0	10,874.0	6,928.0	70.5	70.6	29.26	3,853.3	390.1	268.2	193.4	74.76	3.587		
11,150.0	7,162.0	10,924.0	6,928.0	71.4	71.4	29.26	3,903.3	390.1	268.2	192.6	75.62	3.547		
11,200.0	7,162.0	10,974.0	6,928.0	72.2	72.3	29.37	3,953.3	390.1	268.5	191.9	76.57	3.507		
11,300.0	7,162.0	11,073.9	6,928.0	74.0	74.0	30.28	4,053.1	390.1	271.1	191.5	79.66	3.404		
11,400.0	7,162.0	11,173.3	6,928.0	75.7	75.7	32.02	4,152.6	390.1	276.6	192.4	84.24	3.284		
11,500.0	7,162.0	11,272.0	6,928.0	77.3	77.4	34.46	4,251.3	390.1	285.4	195.3	90.04	3.169		
11,600.0	7,162.0	11,369.8	6,928.0	79.0	79.1	37.44	4,349.1	390.1	297.9	201.3	96.60	3.084		
11,700.0	7,162.0	11,466.3	6,928.0	80.7	80.8	40.76	4,445.6	390.1	314.7	211.4	103.38	3.044		
11,747.9	7,162.0	11,512.0	6,928.0	81.4	81.6	42.40	4,491.3	390.1	324.5	217.9	106.56	3.045		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - HZ - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	89.89	0.0	15.1	15.1							
100.0	100.0	100.0	100.0	0.1	0.1	89.89	0.0	15.1	15.1	14.9	0.24	61.807				
200.0	200.0	200.0	200.0	0.3	0.3	89.89	0.0	15.1	15.1	14.5	0.59	25.450				
300.0	300.0	300.0	300.0	0.5	0.5	89.89	0.0	15.1	15.1	14.2	0.94	16.024				
400.0	400.0	400.0	400.0	0.6	0.6	89.89	0.0	15.1	15.1	13.8	1.29	11.693 CC				
500.0	500.0	499.8	499.8	0.8	0.8	-51.69	-0.4	15.9	15.3	13.7	1.64	9.339 ES				
600.0	600.0	599.5	599.5	1.0	1.0	-54.52	-1.6	18.2	16.0	14.0	1.99	8.033				
700.0	699.9	699.3	699.1	1.2	1.2	-58.73	-3.6	22.0	17.2	14.9	2.35	7.323				
800.0	799.7	799.0	798.7	1.4	1.4	-63.66	-6.4	27.4	19.1	16.3	2.73	6.989				
853.0	852.6	851.9	851.4	1.5	1.5	-66.37	-8.2	30.9	20.3	17.4	2.94	6.920				
900.0	899.4	898.7	898.1	1.6	1.6	-68.26	-10.1	34.3	21.7	18.5	3.12	6.937				
1,000.0	999.1	998.3	997.2	1.8	1.8	-69.44	-14.5	42.7	25.5	21.9	3.53	7.212				
1,100.0	1,098.8	1,097.9	1,096.1	2.0	2.0	-67.91	-19.7	52.7	30.5	26.5	3.94	7.730				
1,200.0	1,198.4	1,197.2	1,194.7	2.2	2.3	-64.94	-25.7	64.1	36.8	32.4	4.35	8.449				
1,300.0	1,298.1	1,296.9	1,293.4	2.4	2.6	-61.99	-32.2	76.5	43.9	39.1	4.75	9.232				
1,400.0	1,397.8	1,396.6	1,392.1	2.6	2.9	-59.87	-38.7	88.8	51.1	45.9	5.15	9.911				
1,500.0	1,497.5	1,496.4	1,490.9	2.9	3.1	-58.28	-45.2	101.2	58.3	52.8	5.56	10.500				
1,600.0	1,597.2	1,596.1	1,589.6	3.1	3.4	-57.04	-51.7	113.6	65.6	59.7	5.96	11.017				
1,700.0	1,696.9	1,695.8	1,688.3	3.3	3.7	-56.04	-58.1	125.9	72.9	66.6	6.36	11.471				
1,800.0	1,796.6	1,795.5	1,787.1	3.5	4.0	-55.23	-64.6	138.3	80.3	73.5	6.76	11.874				
1,900.0	1,896.3	1,895.3	1,885.8	3.7	4.3	-54.56	-71.1	150.6	87.6	80.5	7.16	12.234				
2,000.0	1,995.9	1,995.0	1,984.6	4.0	4.6	-53.98	-77.6	163.0	95.0	87.4	7.56	12.556				
2,100.0	2,095.6	2,094.7	2,083.3	4.2	4.9	-53.50	-84.1	175.4	102.4	94.4	7.97	12.847				
2,200.0	2,195.3	2,194.4	2,182.1	4.4	5.2	-53.07	-90.6	187.7	109.7	101.4	8.37	13.110				
2,300.0	2,295.0	2,294.2	2,280.8	4.6	5.5	-52.70	-97.1	200.1	117.1	108.3	8.77	13.350				
2,400.0	2,394.7	2,393.9	2,379.5	4.8	5.8	-52.38	-103.6	212.4	124.5	115.3	9.17	13.569				
2,500.0	2,494.4	2,493.6	2,478.3	5.1	6.1	-52.09	-110.0	224.8	131.9	122.3	9.58	13.770				
2,600.0	2,594.1	2,593.3	2,577.0	5.3	6.4	-51.83	-116.5	237.2	139.3	129.3	9.98	13.955				
2,700.0	2,693.8	2,693.1	2,675.8	5.5	6.7	-51.59	-123.0	249.5	146.7	136.3	10.38	14.126				
2,800.0	2,793.4	2,792.8	2,774.5	5.7	7.0	-51.38	-129.5	261.9	154.0	143.3	10.78	14.284				
2,900.0	2,893.1	2,892.5	2,873.3	5.9	7.3	-51.19	-136.0	274.3	161.4	150.3	11.19	14.431				
3,000.0	2,992.8	2,992.2	2,972.0	6.2	7.6	-51.02	-142.5	286.6	168.8	157.3	11.59	14.568				
3,100.0	3,092.5	3,092.0	3,070.7	6.4	7.9	-50.86	-149.0	299.0	176.2	164.2	11.99	14.696				
3,200.0	3,192.2	3,191.7	3,169.5	6.6	8.2	-50.71	-155.5	311.3	183.6	171.2	12.40	14.815				
3,300.0	3,291.9	3,291.4	3,268.2	6.8	8.5	-50.58	-162.0	323.7	191.0	178.2	12.80	14.927				
3,400.0	3,391.6	3,391.1	3,367.0	7.1	8.8	-50.45	-168.4	336.1	198.4	185.2	13.20	15.032				
3,500.0	3,491.3	3,490.9	3,465.7	7.3	9.1	-50.33	-174.9	348.4	205.8	192.2	13.60	15.131				
3,600.0	3,590.9	3,590.6	3,564.5	7.5	9.3	-50.23	-181.4	360.8	213.3	199.2	14.01	15.225				
3,700.0	3,690.6	3,690.3	3,663.2	7.7	9.6	-50.13	-187.9	373.1	220.7	206.2	14.41	15.313				
3,800.0	3,790.3	3,790.0	3,761.9	7.9	9.9	-50.03	-194.4	385.5	228.1	213.2	14.81	15.396				
3,900.0	3,890.0	3,889.8	3,860.7	8.2	10.2	-49.94	-200.9	397.9	235.5	220.3	15.22	15.475				
4,000.0	3,989.7	3,989.5	3,959.4	8.4	10.5	-49.86	-207.4	410.2	242.9	227.3	15.62	15.550				
4,100.0	4,089.4	4,089.2	4,058.2	8.6	10.8	-49.78	-213.9	422.6	250.3	234.3	16.02	15.621				
4,200.0	4,189.1	4,188.9	4,156.9	8.8	11.1	-49.71	-220.3	434.9	257.7	241.3	16.42	15.689				
4,300.0	4,288.8	4,288.7	4,255.7	9.1	11.4	-49.64	-226.8	447.3	265.1	248.3	16.83	15.753				
4,400.0	4,388.4	4,388.4	4,354.4	9.3	11.7	-49.57	-233.3	459.7	272.5	255.3	17.23	15.815				
4,500.0	4,488.1	4,488.1	4,453.1	9.5	12.0	-49.51	-239.8	472.0	279.9	262.3	17.63	15.873				
4,600.0	4,587.8	4,587.8	4,551.9	9.7	12.3	-49.45	-246.3	484.4	287.3	269.3	18.04	15.929				
4,700.0	4,687.5	4,687.6	4,650.6	9.9	12.6	-49.39	-252.8	496.7	294.7	276.3	18.44	15.983				
4,800.0	4,787.2	4,787.3	4,749.4	10.2	12.9	-49.34	-259.3	509.1	302.1	283.3	18.84	16.034				
4,900.0	4,886.9	4,887.0	4,848.1	10.4	13.2	-49.29	-265.8	521.5	309.5	290.3	19.25	16.083				
5,000.0	4,986.6	4,986.7	4,946.9	10.6	13.5	-49.24	-272.3	533.8	317.0	297.3	19.65	16.131				

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,086.3	5,086.5	5,045.6	10.8	13.8	-49.20	-278.7	546.2	324.4	304.3	20.05	16.176		
5,200.0	5,185.9	5,186.2	5,144.3	11.0	14.1	-49.15	-285.2	558.5	331.8	311.3	20.46	16.219		
5,300.0	5,285.6	5,288.5	5,245.6	11.3	14.4	-49.12	-291.8	571.0	339.0	318.2	20.86	16.249		
5,400.0	5,385.3	5,393.9	5,350.3	11.5	14.7	-49.22	-297.8	582.5	344.9	323.6	21.28	16.202		
5,500.0	5,485.0	5,499.6	5,455.4	11.7	15.0	-49.45	-302.9	592.2	349.0	327.3	21.72	16.073		
5,562.6	5,547.4	5,565.7	5,521.3	11.9	15.1	-49.67	-305.7	597.5	350.8	328.8	21.99	15.954		
5,600.0	5,584.7	5,605.3	5,560.7	11.9	15.2	-49.81	-307.1	600.3	351.7	329.5	22.15	15.875		
5,700.0	5,684.5	5,711.0	5,666.2	12.1	15.4	-50.14	-310.4	606.6	353.6	331.0	22.56	15.672		
5,800.0	5,784.4	5,816.8	5,771.9	12.3	15.6	-50.37	-312.9	611.2	355.0	332.0	22.94	15.474		
5,900.0	5,884.3	5,922.6	5,877.6	12.5	15.7	-50.52	-314.4	614.0	355.9	332.6	23.29	15.280		
6,000.0	5,984.3	6,028.4	5,983.4	12.6	15.9	-50.58	-315.0	615.2	356.2	332.6	23.61	15.088		
6,015.7	6,000.0	6,045.0	6,000.0	12.6	15.9	90.00	-315.0	615.2	356.2	332.5	23.66	15.058		
6,100.0	6,084.3	6,129.4	6,084.3	12.8	16.0	90.00	-315.0	615.2	356.2	332.3	23.92	14.893		
6,200.0	6,184.3	6,229.4	6,184.3	12.9	16.1	90.00	-315.0	615.2	356.2	332.0	24.23	14.702		
6,300.0	6,284.3	6,329.4	6,284.3	13.1	16.2	90.00	-315.0	615.2	356.2	331.7	24.54	14.516		
6,400.0	6,384.3	6,429.4	6,384.3	13.2	16.3	90.00	-315.0	615.2	356.2	331.4	24.85	14.333		
6,454.1	6,438.4	6,483.4	6,438.4	13.3	16.4	90.00	-315.0	615.2	356.2	331.2	25.02	14.236		
6,500.0	6,484.3	6,529.3	6,484.3	13.4	16.4	89.81	-313.8	615.2	356.2	331.0	25.16	14.155		
6,604.7	6,589.0	6,631.3	6,584.9	13.5	16.4	87.33	-298.4	615.2	356.6	331.0	25.62	13.919		
6,650.0	6,634.3	6,673.7	6,625.7	13.6	16.4	85.66	-286.7	615.2	357.3	331.5	25.82	13.838		
6,700.0	6,683.9	6,719.6	6,668.7	13.6	16.4	83.86	-270.8	615.2	358.4	332.4	25.97	13.801		
6,750.0	6,732.8	6,764.8	6,709.7	13.6	16.4	82.12	-251.7	615.2	359.8	333.7	26.04	13.817		
6,800.0	6,780.6	6,809.3	6,748.5	13.5	16.3	80.46	-229.9	615.2	361.4	335.4	26.03	13.884		
6,850.0	6,826.9	6,853.2	6,784.9	13.5	16.3	78.88	-205.5	615.2	363.3	337.3	25.95	13.997		
6,900.0	6,871.4	6,896.5	6,818.9	13.4	16.2	77.39	-178.7	615.2	365.3	339.5	25.81	14.152		
6,950.0	6,913.8	6,939.2	6,850.5	13.4	16.2	76.00	-149.8	615.2	367.4	341.8	25.62	14.341		
7,000.0	6,953.7	6,981.6	6,879.5	13.3	16.2	74.72	-119.0	615.2	369.6	344.2	25.40	14.553		
7,050.0	6,990.8	7,023.4	6,905.9	13.3	16.2	73.55	-86.5	615.2	371.7	346.6	25.16	14.776		
7,100.0	7,024.9	7,065.0	6,929.6	13.2	16.2	72.49	-52.5	615.2	373.8	348.9	24.93	14.996		
7,150.0	7,055.7	7,106.2	6,950.7	13.3	16.2	71.55	-17.0	615.2	375.8	351.0	24.76	15.176		
7,200.0	7,082.9	7,150.0	6,970.2	13.3	16.3	70.69	22.1	615.2	377.6	352.9	24.64	15.323		
7,250.0	7,106.3	7,187.9	6,984.6	13.4	16.4	70.03	57.1	615.2	379.1	354.5	24.63	15.390		
7,300.0	7,125.8	7,228.4	6,997.5	13.5	16.5	69.46	95.6	615.2	380.5	355.8	24.75	15.376		
7,350.0	7,141.2	7,268.7	7,007.6	13.7	16.7	69.01	134.6	615.2	381.6	356.6	25.00	15.265		
7,400.0	7,152.4	7,309.0	7,014.8	14.0	16.9	68.68	174.2	615.2	382.4	357.0	25.40	15.052		
7,450.0	7,159.4	7,350.0	7,019.4	14.3	17.1	68.48	215.0	615.2	382.9	356.9	25.97	14.741		
7,504.7	7,162.0	7,393.1	7,021.0	14.7	17.3	68.41	258.0	615.2	383.1	356.3	26.77	14.311		
7,541.9	7,162.0	7,430.3	7,021.0	15.0	17.6	68.41	295.2	615.2	383.1	355.7	27.36	14.000		
7,600.0	7,162.0	7,488.4	7,021.0	15.4	18.0	68.41	353.3	615.2	383.1	354.8	28.30	13.538		
7,700.0	7,162.0	7,588.4	7,021.0	16.4	18.8	68.41	453.3	615.2	383.1	352.9	30.15	12.703		
7,800.0	7,162.0	7,688.4	7,021.0	17.5	19.8	68.41	553.3	615.2	383.1	350.8	32.24	11.883		
7,900.0	7,162.0	7,788.4	7,021.0	18.7	20.8	68.41	653.3	615.2	383.1	348.6	34.50	11.102		
8,000.0	7,162.0	7,888.4	7,021.0	20.0	22.0	68.41	753.3	615.2	383.1	346.2	36.92	10.376		
8,100.0	7,162.0	7,988.4	7,021.0	21.3	23.2	68.41	853.3	615.2	383.1	343.6	39.46	9.708		
8,200.0	7,162.0	8,088.4	7,021.0	22.7	24.5	68.41	953.3	615.2	383.1	341.0	42.10	9.099		
8,300.0	7,162.0	8,188.4	7,021.0	24.1	25.8	68.41	1,053.3	615.2	383.1	338.2	44.82	8.547		
8,400.0	7,162.0	8,288.4	7,021.0	25.6	27.2	68.41	1,153.3	615.2	383.1	335.5	47.61	8.046		
8,500.0	7,162.0	8,388.4	7,021.0	27.1	28.6	68.41	1,253.3	615.2	383.1	332.6	50.46	7.592		
8,600.0	7,162.0	8,488.4	7,021.0	28.7	30.1	68.41	1,353.3	615.2	383.1	329.7	53.35	7.180		
8,700.0	7,162.0	8,588.4	7,021.0	30.2	31.6	68.41	1,453.3	615.2	383.1	326.8	56.29	6.805		
8,800.0	7,162.0	8,688.4	7,021.0	31.8	33.1	68.41	1,553.3	615.2	383.1	323.8	59.26	6.464		
8,900.0	7,162.0	8,788.4	7,021.0	33.4	34.7	68.41	1,653.3	615.2	383.1	320.8	62.26	6.153		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4G-20H-O264 - HZ - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis		
9,000.0	7,162.0	8,888.4	7,021.0	35.0	36.2	68.41	1,753.3	615.2	383.1	317.8	65.28	5.868	
9,100.0	7,162.0	8,988.4	7,021.0	36.7	37.8	68.41	1,853.3	615.2	383.1	314.7	68.33	5.606	
9,200.0	7,162.0	9,088.4	7,021.0	38.3	39.4	68.41	1,953.3	615.2	383.1	311.7	71.40	5.365	
9,300.0	7,162.0	9,188.4	7,021.0	40.0	41.0	68.41	2,053.3	615.2	383.1	308.6	74.48	5.143	
9,400.0	7,162.0	9,288.4	7,021.0	41.6	42.6	68.41	2,153.3	615.2	383.1	305.5	77.58	4.938	
9,500.0	7,162.0	9,388.4	7,021.0	43.3	44.2	68.41	2,253.3	615.2	383.1	302.4	80.69	4.747	
9,600.0	7,162.0	9,488.4	7,021.0	45.0	45.9	68.41	2,353.3	615.2	383.1	299.2	83.81	4.570	
9,700.0	7,162.0	9,588.4	7,021.0	46.6	47.5	68.41	2,453.3	615.2	383.1	296.1	86.95	4.406	
9,800.0	7,162.0	9,688.4	7,021.0	48.3	49.2	68.41	2,553.3	615.2	383.1	293.0	90.09	4.252	
9,900.0	7,162.0	9,788.4	7,021.0	50.0	50.8	68.41	2,653.3	615.2	383.1	289.8	93.24	4.108	
10,000.0	7,162.0	9,888.4	7,021.0	51.7	52.5	68.41	2,753.3	615.2	383.1	286.7	96.40	3.974	
10,100.0	7,162.0	9,988.4	7,021.0	53.4	54.2	68.41	2,853.3	615.2	383.1	283.5	99.57	3.847	
10,200.0	7,162.0	10,088.4	7,021.0	55.1	55.8	68.41	2,953.3	615.2	383.1	280.3	102.74	3.728	
10,300.0	7,162.0	10,188.4	7,021.0	56.8	57.5	68.41	3,053.3	615.2	383.1	277.1	105.92	3.617	
10,400.0	7,162.0	10,288.4	7,021.0	58.5	59.2	68.41	3,153.3	615.2	383.1	274.0	109.10	3.511	
10,500.0	7,162.0	10,388.4	7,021.0	60.2	60.9	68.41	3,253.3	615.2	383.1	270.8	112.29	3.411	
10,600.0	7,162.0	10,488.4	7,021.0	61.9	62.6	68.41	3,353.3	615.2	383.1	267.6	115.48	3.317	
10,700.0	7,162.0	10,588.4	7,021.0	63.7	64.3	68.41	3,453.3	615.2	383.1	264.4	118.67	3.228	
10,800.0	7,162.0	10,688.4	7,021.0	65.4	66.0	68.41	3,553.3	615.2	383.1	261.2	121.87	3.143	
10,900.0	7,162.0	10,788.4	7,021.0	67.1	67.7	68.41	3,653.3	615.2	383.0	258.0	125.08	3.063	
11,000.0	7,162.0	10,888.4	7,021.0	68.8	69.4	68.41	3,753.3	615.2	383.0	254.8	128.28	2.986	
11,100.0	7,162.0	10,988.4	7,021.0	70.5	71.1	68.41	3,853.3	615.2	383.0	251.6	131.49	2.913	
11,150.0	7,162.0	11,038.4	7,021.0	71.4	72.0	68.41	3,903.3	615.2	383.0	250.0	133.10	2.878	
11,150.0	7,162.0	11,038.4	7,021.0	71.4	72.0	68.41	3,903.3	615.2	383.0	250.0	133.10	2.878	
11,200.0	7,162.0	11,088.4	7,021.0	72.2	72.8	68.44	3,953.3	615.2	383.7	249.3	134.34	2.856	
11,300.0	7,162.0	11,188.2	7,021.0	74.0	74.5	68.67	4,053.1	615.2	388.6	251.9	136.72	2.842 SF	
11,400.0	7,162.0	11,287.6	7,021.0	75.7	76.2	69.11	4,152.6	615.2	398.4	259.5	138.92	2.868	
11,500.0	7,162.0	11,386.4	7,021.0	77.3	77.9	69.74	4,251.3	615.2	413.3	272.4	140.88	2.933	
11,600.0	7,162.0	11,484.1	7,021.0	79.0	79.6	70.49	4,349.1	615.2	433.1	290.5	142.53	3.038	
11,700.0	7,162.0	11,580.7	7,021.0	80.7	81.3	71.33	4,445.6	615.2	457.8	314.0	143.81	3.184	
11,747.9	7,162.0	11,626.3	7,021.0	81.4	82.0	71.75	4,491.3	615.2	471.5	327.2	144.27	3.268	



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4H-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-Geolink MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.89	0.0	22.7	22.7					
100.0	100.0	100.0	100.0	0.1	0.1	89.89	0.0	22.7	22.7	22.4	0.24	92.710		
200.0	200.0	200.0	200.0	0.3	0.3	89.89	0.0	22.7	22.7	22.1	0.59	38.175		
300.0	300.0	300.0	300.0	0.5	0.5	89.89	0.0	22.7	22.7	21.7	0.94	24.036		
333.4	333.4	333.4	333.4	0.5	0.5	89.89	0.0	22.7	22.7	21.6	1.06	21.392 CC		
400.0	400.0	399.8	399.8	0.6	0.6	90.09	0.0	22.9	22.9	21.6	1.29	17.701 ES		
500.0	500.0	499.4	499.4	0.8	0.8	-50.59	-0.7	24.5	23.9	22.3	1.64	14.587		
600.0	600.0	599.0	598.9	1.0	1.0	-52.31	-1.9	27.7	25.5	23.5	1.99	12.812		
700.0	699.9	698.6	698.3	1.2	1.2	-55.24	-3.8	32.5	27.7	25.3	2.35	11.785		
800.0	799.7	798.1	797.6	1.4	1.4	-58.95	-6.3	39.0	30.5	27.8	2.72	11.221		
853.0	852.6	850.8	850.2	1.5	1.5	-61.08	-7.8	43.1	32.3	29.4	2.93	11.053		
900.0	899.4	897.5	896.7	1.6	1.6	-62.74	-9.4	47.0	34.2	31.1	3.11	11.002		
1,000.0	999.1	996.8	995.5	1.8	1.8	-64.64	-13.1	56.7	39.3	35.8	3.51	11.201		
1,100.0	1,098.8	1,096.0	1,093.9	2.0	2.1	-64.81	-17.4	67.9	45.9	42.0	3.92	11.706		
1,200.0	1,198.4	1,195.0	1,191.9	2.2	2.4	-63.87	-22.3	80.7	53.8	49.5	4.33	12.437		
1,300.0	1,298.1	1,293.7	1,289.4	2.4	2.7	-62.31	-27.8	95.0	63.2	58.5	4.74	13.349		
1,400.0	1,397.8	1,392.1	1,386.3	2.6	3.0	-60.47	-33.9	110.8	74.1	69.0	5.14	14.417		
1,500.0	1,497.5	1,490.8	1,483.3	2.9	3.3	-58.60	-40.6	128.1	86.4	80.8	5.54	15.583		
1,600.0	1,597.2	1,589.9	1,580.7	3.1	3.7	-57.15	-47.3	145.5	98.8	92.9	5.94	16.630		
1,700.0	1,696.9	1,689.1	1,678.1	3.3	4.0	-56.02	-54.0	163.0	111.3	105.0	6.34	17.553		
1,800.0	1,796.6	1,788.3	1,775.5	3.5	4.4	-55.11	-60.8	180.5	123.9	117.1	6.74	18.371		
1,900.0	1,896.3	1,887.5	1,872.9	3.7	4.8	-54.38	-67.5	197.9	136.4	129.3	7.14	19.101		
2,000.0	1,995.9	1,986.7	1,970.3	4.0	5.1	-53.76	-74.2	215.4	149.0	141.5	7.54	19.755		
2,100.0	2,095.6	2,085.9	2,067.7	4.2	5.5	-53.25	-80.9	232.9	161.6	153.7	7.94	20.344		
2,200.0	2,195.3	2,185.1	2,165.2	4.4	5.8	-52.81	-87.7	250.3	174.2	165.9	8.35	20.879		
2,300.0	2,295.0	2,284.3	2,262.6	4.6	6.2	-52.42	-94.4	267.8	186.9	178.1	8.75	21.364		
2,400.0	2,394.7	2,383.5	2,360.0	4.8	6.6	-52.09	-101.1	285.3	199.5	190.3	9.15	21.808		
2,500.0	2,494.4	2,482.7	2,457.4	5.1	6.9	-51.80	-107.9	302.8	212.1	202.6	9.55	22.215		
2,600.0	2,594.1	2,581.9	2,554.8	5.3	7.3	-51.53	-114.6	320.2	224.7	214.8	9.95	22.590		
2,700.0	2,693.8	2,681.1	2,652.2	5.5	7.7	-51.30	-121.3	337.7	237.4	227.0	10.35	22.936		
2,800.0	2,793.4	2,780.3	2,749.6	5.7	8.0	-51.09	-128.1	355.2	250.0	239.3	10.75	23.256		
2,900.0	2,893.1	2,879.5	2,847.0	5.9	8.4	-50.90	-134.8	372.6	262.7	251.5	11.15	23.553		
3,000.0	2,992.8	2,978.7	2,944.4	6.2	8.8	-50.73	-141.5	390.1	275.3	263.8	11.55	23.830		
3,100.0	3,092.5	3,077.9	3,041.8	6.4	9.2	-50.57	-148.3	407.6	288.0	276.0	11.96	24.088		
3,200.0	3,192.2	3,177.0	3,139.3	6.6	9.5	-50.43	-155.0	425.0	300.6	288.3	12.36	24.330		
3,300.0	3,291.9	3,276.2	3,236.7	6.8	9.9	-50.30	-161.7	442.5	313.3	300.5	12.76	24.556		
3,400.0	3,391.6	3,375.4	3,334.1	7.1	10.3	-50.17	-168.4	460.0	326.0	312.8	13.16	24.769		
3,500.0	3,491.3	3,474.6	3,431.5	7.3	10.6	-50.06	-175.2	477.5	338.6	325.1	13.56	24.969		
3,600.0	3,590.9	3,573.8	3,528.9	7.5	11.0	-49.96	-181.9	494.9	351.3	337.3	13.96	25.158		
3,700.0	3,690.6	3,673.0	3,626.3	7.7	11.4	-49.86	-188.6	512.4	363.9	349.6	14.36	25.336		
3,800.0	3,790.3	3,772.2	3,723.7	7.9	11.8	-49.77	-195.4	529.9	376.6	361.8	14.77	25.504		
3,900.0	3,890.0	3,871.4	3,821.1	8.2	12.1	-49.68	-202.1	547.3	389.3	374.1	15.17	25.664		
4,000.0	3,989.7	3,970.6	3,918.5	8.4	12.5	-49.60	-208.8	564.8	401.9	386.4	15.57	25.815		
4,100.0	4,089.4	4,069.8	4,016.0	8.6	12.9	-49.53	-215.6	582.3	414.6	398.6	15.97	25.959		
4,200.0	4,189.1	4,169.0	4,113.4	8.8	13.2	-49.46	-222.3	599.7	427.3	410.9	16.37	26.096		
4,300.0	4,288.8	4,268.2	4,210.8	9.1	13.6	-49.39	-229.0	617.2	439.9	423.1	16.77	26.226		
4,400.0	4,388.4	4,367.4	4,308.2	9.3	14.0	-49.33	-235.8	634.7	452.6	435.4	17.18	26.350		
4,500.0	4,488.1	4,466.6	4,405.6	9.5	14.4	-49.27	-242.5	652.2	465.3	447.7	17.58	26.468		
4,600.0	4,587.8	4,565.8	4,503.0	9.7	14.7	-49.22	-249.2	669.6	477.9	459.9	17.98	26.581		
4,700.0	4,687.5	4,664.9	4,600.4	9.9	15.1	-49.16	-256.0	687.1	490.6	472.2	18.38	26.690		
4,800.0	4,787.2	4,764.1	4,697.8	10.2	15.5	-49.11	-262.7	704.6	503.3	484.5	18.78	26.793		
4,900.0	4,886.9	4,863.3	4,795.2	10.4	15.9	-49.06	-269.4	722.0	515.9	496.7	19.18	26.892		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4H-20H-O264 - 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			
5,000.0	4,986.6	4,962.5	4,892.7	10.6	16.2	-49.02	-276.1	739.5	528.6	509.0	19.59	26.988		
5,100.0	5,086.3	5,068.8	4,997.1	10.8	16.6	-48.99	-283.2	757.7	540.8	520.8	20.00	27.037		
5,200.0	5,185.9	5,178.1	5,104.9	11.0	17.0	-49.04	-289.7	774.6	551.3	530.8	20.43	26.987		
5,300.0	5,285.6	5,287.7	5,213.3	11.3	17.3	-49.15	-295.4	789.6	559.9	539.1	20.86	26.846		
5,400.0	5,385.3	5,397.6	5,322.3	11.5	17.6	-49.34	-300.5	802.7	566.8	545.5	21.29	26.619		
5,500.0	5,485.0	5,507.7	5,431.8	11.7	17.9	-49.59	-304.8	813.9	571.9	550.2	21.74	26.311		
5,562.6	5,547.4	5,576.8	5,500.5	11.9	18.0	-49.78	-307.1	819.9	574.2	552.2	22.02	26.080		
5,600.0	5,584.7	5,618.0	5,541.6	11.9	18.1	-49.91	-308.4	823.1	575.3	553.1	22.18	25.938		
5,700.0	5,684.5	5,728.3	5,651.6	12.1	18.3	-50.19	-311.1	830.4	577.8	555.2	22.59	25.575		
5,800.0	5,784.4	5,838.7	5,761.9	12.3	18.5	-50.40	-313.2	835.6	579.7	556.7	22.98	25.229		
5,900.0	5,884.3	5,949.1	5,872.3	12.5	18.6	-50.53	-314.4	838.9	580.8	557.5	23.33	24.896		
6,000.0	5,984.3	6,059.6	5,982.7	12.6	18.7	-50.58	-314.9	840.2	581.2	557.6	23.65	24.574		
6,015.7	6,000.0	6,076.9	6,000.0	12.6	18.7	90.00	-315.0	840.3	581.3	557.6	23.70	24.523		
6,100.0	6,084.3	6,161.2	6,084.3	12.8	18.8	90.00	-315.0	840.3	581.3	557.3	23.96	24.256		
6,200.0	6,184.3	6,261.2	6,184.3	12.9	18.9	90.00	-315.0	840.3	581.3	557.0	24.27	23.945		
6,300.0	6,284.3	6,361.2	6,284.3	13.1	19.0	90.00	-315.0	840.3	581.3	556.7	24.59	23.642		
6,400.0	6,384.3	6,461.2	6,384.3	13.2	19.1	90.00	-315.0	840.3	581.3	556.4	24.90	23.345		
6,500.0	6,484.3	6,561.2	6,484.3	13.4	19.2	90.00	-315.0	840.3	581.3	556.0	25.21	23.054		
6,604.7	6,589.0	6,665.9	6,589.0	13.5	19.3	90.00	-315.0	840.3	581.3	555.7	25.54	22.757		
6,650.0	6,634.3	6,711.2	6,634.3	13.6	19.4	90.00	-313.2	840.3	581.3	555.6	25.63	22.678		
6,700.0	6,683.9	6,761.2	6,683.9	13.6	19.4	90.00	-307.1	840.3	581.3	555.6	25.67	22.645		
6,750.0	6,732.8	6,811.2	6,732.8	13.6	19.4	90.00	-296.6	840.3	581.3	555.6	25.65	22.660		
6,800.0	6,780.6	6,861.2	6,780.6	13.5	19.4	90.00	-282.0	840.3	581.3	555.7	25.59	22.715		
6,850.0	6,826.9	6,911.2	6,826.9	13.5	19.3	90.00	-263.3	840.3	581.3	555.8	25.49	22.802		
6,900.0	6,871.4	6,961.2	6,871.4	13.4	19.3	90.00	-240.5	840.3	581.3	555.9	25.37	22.910		
6,950.0	6,913.8	7,011.2	6,913.8	13.4	19.2	90.00	-214.0	840.3	581.3	556.0	25.25	23.023		
7,000.0	6,953.7	7,061.2	6,953.7	13.3	19.2	90.00	-183.9	840.3	581.3	556.1	25.13	23.128		
7,050.0	6,990.8	7,111.2	6,990.8	13.3	19.2	90.00	-150.5	840.3	581.3	556.2	25.05	23.207		
7,100.0	7,024.9	7,161.2	7,024.9	13.2	19.2	90.00	-113.9	840.3	581.3	556.2	25.01	23.243		
7,150.0	7,055.7	7,211.2	7,055.7	13.3	19.2	90.00	-74.5	840.3	581.3	556.2	25.03	23.220		
7,200.0	7,082.9	7,261.2	7,082.9	13.3	19.2	90.00	-32.6	840.3	581.3	556.1	25.14	23.122		
7,250.0	7,106.3	7,311.2	7,106.3	13.4	19.3	90.00	11.6	840.3	581.3	555.9	25.34	22.941		
7,300.0	7,125.8	7,361.2	7,125.8	13.5	19.3	90.00	57.6	840.3	581.3	555.6	25.64	22.670		
7,350.0	7,141.2	7,411.2	7,141.2	13.7	19.5	90.00	105.2	840.3	581.3	555.2	26.05	22.313		
7,400.0	7,152.4	7,461.2	7,152.5	14.0	19.6	90.00	153.9	840.3	581.3	554.7	26.57	21.877		
7,450.0	7,159.4	7,511.2	7,159.4	14.3	19.8	90.00	203.4	840.3	581.3	554.1	27.19	21.374		
7,504.7	7,162.0	7,565.9	7,162.0	14.7	20.1	90.00	258.0	840.3	581.3	553.3	27.99	20.769		
7,600.0	7,162.0	7,661.2	7,162.0	15.4	20.7	90.00	353.3	840.3	581.3	551.6	29.64	19.611		
7,700.0	7,162.0	7,761.2	7,162.0	16.4	21.4	90.00	453.3	840.3	581.3	549.6	31.64	18.370		
7,800.0	7,162.0	7,861.2	7,162.0	17.5	22.2	90.00	553.3	840.3	581.3	547.4	33.89	17.151		
7,900.0	7,162.0	7,961.2	7,162.0	18.7	23.2	90.00	653.3	840.3	581.3	544.9	36.34	15.995		
8,000.0	7,162.0	8,061.2	7,162.0	20.0	24.2	90.00	753.3	840.3	581.3	542.3	38.95	14.923		
8,100.0	7,162.0	8,161.2	7,162.0	21.3	25.3	90.00	853.3	840.3	581.3	539.6	41.69	13.941		
8,200.0	7,162.0	8,261.2	7,162.0	22.7	26.5	90.00	953.3	840.3	581.3	536.7	44.54	13.049		
8,300.0	7,162.0	8,361.2	7,162.0	24.1	27.7	90.00	1,053.3	840.3	581.3	533.8	47.48	12.241		
8,400.0	7,162.0	8,461.2	7,162.0	25.6	29.0	90.00	1,153.3	840.3	581.3	530.8	50.49	11.511		
8,500.0	7,162.0	8,561.2	7,162.0	27.1	30.4	90.00	1,253.3	840.3	581.3	527.7	53.57	10.851		
8,600.0	7,162.0	8,661.2	7,162.0	28.7	31.8	90.00	1,353.3	840.3	581.3	524.6	56.69	10.253		
8,700.0	7,162.0	8,761.2	7,162.0	30.2	33.2	90.00	1,453.3	840.3	581.3	521.4	59.86	9.711		
8,800.0	7,162.0	8,861.2	7,162.0	31.8	34.6	90.00	1,553.3	840.3	581.3	518.2	63.06	9.218		
8,900.0	7,162.0	8,961.2	7,162.0	33.4	36.1	90.00	1,653.3	840.3	581.3	515.0	66.29	8.768		
9,000.0	7,162.0	9,061.2	7,162.0	35.0	37.6	90.00	1,753.3	840.3	581.3	511.7	69.55	8.357		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4H-20H-O264 - 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)						
9,100.0	7,162.0	9,161.2	7,162.0	36.7	39.1	90.00	1,853.3	840.3	581.3	508.4	72.83	7.981		
9,200.0	7,162.0	9,261.2	7,162.0	38.3	40.7	90.00	1,953.3	840.3	581.3	505.1	76.14	7.634		
9,300.0	7,162.0	9,361.2	7,162.0	40.0	42.2	90.00	2,053.3	840.3	581.3	501.8	79.46	7.315		
9,400.0	7,162.0	9,461.2	7,162.0	41.6	43.8	90.00	2,153.3	840.3	581.3	498.5	82.79	7.021		
9,500.0	7,162.0	9,561.2	7,162.0	43.3	45.4	90.00	2,253.3	840.3	581.3	495.1	86.14	6.748		
9,600.0	7,162.0	9,661.2	7,162.0	45.0	47.0	90.00	2,353.3	840.3	581.3	491.8	89.50	6.494		
9,700.0	7,162.0	9,761.2	7,162.0	46.6	48.6	90.00	2,453.3	840.3	581.3	488.4	92.88	6.258		
9,800.0	7,162.0	9,861.2	7,162.0	48.3	50.2	90.00	2,553.3	840.3	581.3	485.0	96.26	6.038		
9,900.0	7,162.0	9,961.2	7,162.0	50.0	51.8	90.00	2,653.3	840.3	581.3	481.6	99.65	5.833		
10,000.0	7,162.0	10,061.2	7,162.0	51.7	53.5	90.00	2,753.3	840.3	581.3	478.2	103.05	5.641		
10,100.0	7,162.0	10,161.2	7,162.0	53.4	55.1	90.00	2,853.3	840.3	581.3	474.8	106.45	5.460		
10,200.0	7,162.0	10,261.2	7,162.0	55.1	56.8	90.00	2,953.3	840.3	581.3	471.4	109.87	5.291		
10,300.0	7,162.0	10,361.2	7,162.0	56.8	58.4	90.00	3,053.3	840.3	581.3	468.0	113.28	5.131		
10,400.0	7,162.0	10,461.2	7,162.0	58.5	60.1	90.00	3,153.3	840.3	581.3	464.5	116.71	4.980		
10,500.0	7,162.0	10,561.2	7,162.0	60.2	61.8	90.00	3,253.3	840.3	581.3	461.1	120.14	4.838		
10,600.0	7,162.0	10,661.2	7,162.0	61.9	63.4	90.00	3,353.3	840.3	581.3	457.7	123.57	4.704		
10,700.0	7,162.0	10,761.2	7,162.0	63.7	65.1	90.00	3,453.3	840.3	581.3	454.3	127.01	4.577		
10,800.0	7,162.0	10,861.2	7,162.0	65.4	66.8	90.00	3,553.3	840.3	581.3	450.8	130.45	4.456		
10,900.0	7,162.0	10,961.2	7,162.0	67.1	68.5	90.00	3,653.3	840.3	581.3	447.4	133.89	4.341		
11,000.0	7,162.0	11,061.2	7,162.0	68.8	70.2	90.00	3,753.3	840.3	581.3	443.9	137.34	4.232		
11,100.0	7,162.0	11,161.2	7,162.0	70.5	71.8	90.00	3,853.3	840.3	581.3	440.5	140.79	4.129		
11,150.0	7,162.0	11,211.2	7,162.0	71.4	72.7	90.00	3,903.3	840.3	581.3	438.7	142.52	4.079		
11,200.0	7,162.0	11,261.2	7,162.0	72.2	73.5	90.00	3,953.3	840.3	581.9	438.2	143.72	4.049		
11,300.0	7,162.0	11,361.1	7,162.0	74.0	75.2	90.00	4,053.1	840.3	587.2	441.4	145.83	4.027 SF		
11,400.0	7,162.0	11,460.5	7,162.0	75.7	76.9	90.00	4,152.6	840.3	597.8	450.2	147.54	4.052		
11,500.0	7,162.0	11,559.2	7,162.0	77.3	78.6	90.00	4,251.3	840.3	613.6	464.7	148.84	4.122		
11,600.0	7,162.0	11,657.0	7,162.0	79.0	80.3	90.00	4,349.1	840.3	634.6	484.9	149.70	4.239		
11,700.0	7,162.0	11,753.5	7,162.0	80.7	81.9	90.00	4,445.6	840.3	660.7	510.6	150.12	4.401		
11,747.9	7,162.0	11,799.2	7,162.0	81.4	82.7	90.00	4,491.3	840.3	675.0	524.8	150.15	4.495		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4I-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.92	0.0	30.2	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	89.92	0.0	30.2	30.2	30.0	0.24	123.613		
200.0	200.0	200.0	200.0	0.3	0.3	89.92	0.0	30.2	30.2	29.6	0.59	50.900		
300.0	300.0	300.0	300.0	0.5	0.5	89.92	0.0	30.2	30.2	29.3	0.94	32.048	CC, ES	
400.0	400.0	399.0	398.9	0.6	0.6	90.82	-0.5	31.8	31.9	30.6	1.29	24.694		
500.0	500.0	497.7	497.6	0.8	0.8	-48.52	-1.9	36.7	36.3	34.6	1.64	22.144		
600.0	600.0	596.2	595.7	1.0	1.1	-48.13	-4.4	44.8	42.9	40.9	1.99	21.549		
700.0	699.9	694.3	693.0	1.2	1.3	-48.32	-7.8	56.1	51.6	49.3	2.35	21.996		
800.0	799.7	791.8	789.4	1.4	1.6	-48.80	-12.2	70.5	62.5	59.8	2.71	23.030		
853.0	852.6	843.3	840.0	1.5	1.8	-49.11	-14.9	79.3	69.1	66.2	2.91	23.724		
900.0	899.4	888.7	884.5	1.6	1.9	-49.34	-17.5	87.9	75.6	72.5	3.09	24.453		
1,000.0	999.1	985.9	979.5	1.8	2.3	-49.35	-23.7	108.1	91.5	88.0	3.48	26.318		
1,100.0	1,098.8	1,084.6	1,075.6	2.0	2.7	-49.27	-30.1	129.1	107.9	104.0	3.87	27.907		
1,200.0	1,198.4	1,183.2	1,171.8	2.2	3.1	-49.21	-36.5	150.2	124.3	120.1	4.26	29.188		
1,300.0	1,298.1	1,281.9	1,267.9	2.4	3.6	-49.16	-42.9	171.2	140.7	136.1	4.65	30.241		
1,400.0	1,397.8	1,380.5	1,364.1	2.6	4.0	-49.13	-49.3	192.3	157.1	152.1	5.05	31.120		
1,500.0	1,497.5	1,479.1	1,460.3	2.9	4.4	-49.10	-55.7	213.3	173.5	168.1	5.45	31.865		
1,600.0	1,597.2	1,577.8	1,556.4	3.1	4.8	-49.08	-62.1	234.4	190.0	184.1	5.84	32.504		
1,700.0	1,696.9	1,676.4	1,652.6	3.3	5.2	-49.06	-68.5	255.4	206.4	200.1	6.24	33.058		
1,800.0	1,796.6	1,775.1	1,748.7	3.5	5.7	-49.04	-74.9	276.4	222.8	216.1	6.64	33.542		
1,900.0	1,896.3	1,873.7	1,844.9	3.7	6.1	-49.02	-81.3	297.5	239.2	232.1	7.04	33.969		
2,000.0	1,995.9	1,972.4	1,941.1	4.0	6.5	-49.01	-87.7	318.5	255.6	248.2	7.44	34.348		
2,100.0	2,095.6	2,071.0	2,037.2	4.2	6.9	-49.00	-94.1	339.6	272.0	264.2	7.84	34.687		
2,200.0	2,195.3	2,169.7	2,133.4	4.4	7.4	-48.99	-100.5	360.6	288.4	280.2	8.24	34.992		
2,300.0	2,295.0	2,268.3	2,229.6	4.6	7.8	-48.98	-106.9	381.6	304.8	296.2	8.64	35.267		
2,400.0	2,394.7	2,366.9	2,325.7	4.8	8.2	-48.97	-113.3	402.7	321.2	312.2	9.04	35.518		
2,500.0	2,494.4	2,465.6	2,421.9	5.1	8.6	-48.97	-119.7	423.7	337.7	328.2	9.45	35.746		
2,600.0	2,594.1	2,564.2	2,518.0	5.3	9.1	-48.96	-126.1	444.8	354.1	344.2	9.85	35.955		
2,700.0	2,693.8	2,662.9	2,614.2	5.5	9.5	-48.95	-132.5	465.8	370.5	360.2	10.25	36.147		
2,800.0	2,793.4	2,761.5	2,710.4	5.7	9.9	-48.95	-138.9	486.8	386.9	376.2	10.65	36.324		
2,900.0	2,893.1	2,860.2	2,806.5	5.9	10.3	-48.94	-145.4	507.9	403.3	392.2	11.05	36.488		
3,000.0	2,992.8	2,958.8	2,902.7	6.2	10.8	-48.94	-151.8	528.9	419.7	408.2	11.45	36.640		
3,100.0	3,092.5	3,057.5	2,998.8	6.4	11.2	-48.94	-158.2	550.0	436.1	424.3	11.86	36.781		
3,200.0	3,192.2	3,156.1	3,095.0	6.6	11.6	-48.93	-164.6	571.0	452.5	440.3	12.26	36.913		
3,300.0	3,291.9	3,254.7	3,191.2	6.8	12.0	-48.93	-171.0	592.0	468.9	456.3	12.66	37.037		
3,400.0	3,391.6	3,353.4	3,287.3	7.1	12.5	-48.92	-177.4	613.1	485.3	472.3	13.06	37.152		
3,500.0	3,491.3	3,452.0	3,383.5	7.3	12.9	-48.92	-183.8	634.1	501.8	488.3	13.47	37.260		
3,600.0	3,590.9	3,550.7	3,479.6	7.5	13.3	-48.92	-190.2	655.2	518.2	504.3	13.87	37.362		
3,700.0	3,690.6	3,649.3	3,575.8	7.7	13.8	-48.92	-196.6	676.2	534.6	520.3	14.27	37.459		
3,800.0	3,790.3	3,748.0	3,672.0	7.9	14.2	-48.91	-203.0	697.3	551.0	536.3	14.67	37.549		
3,900.0	3,890.0	3,846.6	3,768.1	8.2	14.6	-48.91	-209.4	718.3	567.4	552.3	15.08	37.635		
4,000.0	3,989.7	3,945.3	3,864.3	8.4	15.0	-48.91	-215.8	739.3	583.8	568.3	15.48	37.716		
4,100.0	4,089.4	4,043.9	3,960.5	8.6	15.5	-48.91	-222.2	760.4	600.2	584.3	15.88	37.793		
4,200.0	4,189.1	4,142.5	4,056.6	8.8	15.9	-48.90	-228.6	781.4	616.6	600.3	16.28	37.866		
4,300.0	4,288.8	4,241.2	4,152.8	9.1	16.3	-48.90	-235.0	802.5	633.0	616.4	16.69	37.936		
4,400.0	4,388.4	4,339.8	4,248.9	9.3	16.8	-48.90	-241.4	823.5	649.5	632.4	17.09	38.002		
4,500.0	4,488.1	4,438.5	4,345.1	9.5	17.2	-48.90	-247.8	844.5	665.9	648.4	17.49	38.065		
4,600.0	4,587.8	4,537.1	4,441.3	9.7	17.6	-48.90	-254.2	865.6	682.3	664.4	17.90	38.125		
4,700.0	4,687.5	4,635.8	4,537.4	9.9	18.0	-48.89	-260.6	886.6	698.7	680.4	18.30	38.182		
4,800.0	4,787.2	4,734.4	4,633.6	10.2	18.5	-48.89	-267.0	907.7	715.1	696.4	18.70	38.237		
4,900.0	4,886.9	4,834.1	4,730.8	10.4	18.9	-48.89	-273.5	928.9	731.5	712.4	19.11	38.286		
5,000.0	4,986.6	4,946.9	4,841.0	10.6	19.4	-48.92	-280.5	951.8	746.8	727.3	19.54	38.226		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4I-20H-O264 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,086.3	5,060.4	4,952.4	10.8	19.8	-48.99	-286.8	972.7	760.3	740.3	19.97	38.066		
5,200.0	5,185.9	5,174.4	5,064.6	11.0	20.2	-49.10	-292.6	991.6	771.8	751.4	20.41	37.812		
5,300.0	5,285.6	5,288.8	5,177.7	11.3	20.5	-49.25	-297.7	1,008.4	781.5	760.6	20.86	37.470		
5,400.0	5,385.3	5,403.7	5,291.5	11.5	20.8	-49.45	-302.2	1,023.0	789.2	767.9	21.30	37.045		
5,500.0	5,485.0	5,518.7	5,405.8	11.7	21.1	-49.69	-306.0	1,035.6	795.1	773.3	21.76	36.543		
5,562.6	5,547.4	5,590.9	5,477.7	11.9	21.3	-49.86	-308.0	1,042.3	797.7	775.7	22.04	36.191		
5,600.0	5,584.7	5,634.0	5,520.6	11.9	21.3	-49.98	-309.1	1,045.9	799.1	776.8	22.21	35.981		
5,700.0	5,684.5	5,749.3	5,635.6	12.1	21.5	-50.23	-311.6	1,054.0	802.0	779.4	22.63	35.447		
5,800.0	5,784.4	5,864.8	5,750.9	12.3	21.7	-50.41	-313.4	1,059.9	804.2	781.2	23.01	34.942		
5,900.0	5,884.3	5,980.3	5,866.4	12.5	21.9	-50.53	-314.5	1,063.6	805.6	782.2	23.37	34.464		
6,000.0	5,984.3	6,095.9	5,981.9	12.6	22.0	-50.57	-314.9	1,065.1	806.1	782.4	23.70	34.007		
6,015.7	6,000.0	6,114.0	6,000.0	12.6	22.0	90.00	-315.0	1,065.1	806.1	782.4	23.75	33.936		
6,100.0	6,084.3	6,198.3	6,084.3	12.8	22.1	90.00	-315.0	1,065.1	806.1	782.1	24.02	33.566		
6,200.0	6,184.3	6,298.3	6,184.3	12.9	22.1	90.00	-315.0	1,065.1	806.1	781.8	24.33	33.137		
6,300.0	6,284.3	6,398.3	6,284.3	13.1	22.2	90.00	-315.0	1,065.1	806.1	781.5	24.64	32.717		
6,360.6	6,345.0	6,458.9	6,345.0	13.1	22.3	90.00	-315.0	1,065.1	806.1	781.3	24.83	32.468		
6,400.0	6,384.3	6,498.3	6,384.3	13.2	22.3	89.94	-314.2	1,065.1	806.1	781.2	24.95	32.310		
6,500.0	6,484.3	6,596.2	6,481.2	13.4	22.3	89.00	-300.9	1,065.1	806.2	780.9	25.29	31.875		
6,604.7	6,589.0	6,691.1	6,571.6	13.5	22.3	86.98	-272.4	1,065.1	807.4	781.7	25.72	31.398		
6,650.0	6,634.3	6,729.5	6,606.7	13.6	22.3	85.85	-256.7	1,065.1	808.6	782.7	25.89	31.231		
6,700.0	6,683.9	6,771.0	6,643.2	13.6	22.2	84.64	-237.2	1,065.1	810.1	784.1	26.02	31.136		
6,750.0	6,732.8	6,811.6	6,677.6	13.6	22.2	83.46	-215.6	1,065.1	812.1	786.0	26.08	31.132		
6,800.0	6,780.6	6,850.0	6,708.6	13.5	22.2	82.36	-192.9	1,065.1	814.2	788.1	26.08	31.216		
6,850.0	6,826.9	6,890.5	6,739.6	13.5	22.1	81.25	-166.8	1,065.1	816.5	790.5	26.02	31.380		
6,900.0	6,871.4	6,929.1	6,767.2	13.4	22.1	80.22	-140.0	1,065.1	819.0	793.1	25.90	31.616		
6,950.0	6,913.8	6,967.1	6,792.7	13.4	22.1	79.26	-111.7	1,065.1	821.5	795.8	25.75	31.910		
7,000.0	6,953.7	7,000.0	6,813.2	13.3	22.1	78.44	-86.0	1,065.1	824.1	798.5	25.57	32.232		
7,050.0	6,990.8	7,041.8	6,837.1	13.3	22.1	77.53	-51.7	1,065.1	826.6	801.2	25.37	32.583		
7,100.0	7,024.9	7,078.6	6,866.0	13.2	22.1	76.78	-20.1	1,065.1	828.9	803.8	25.16	32.943		
7,150.0	7,055.7	7,115.1	6,872.7	13.3	22.2	76.10	12.4	1,065.1	831.2	806.1	25.08	33.138		
7,200.0	7,082.9	7,150.0	6,886.7	13.3	22.2	75.53	44.3	1,065.1	833.2	808.2	25.00	33.328		
7,250.0	7,106.3	7,187.4	6,899.5	13.4	22.3	75.01	79.4	1,065.1	835.0	809.9	25.04	33.343		
7,300.0	7,125.8	7,223.3	6,909.6	13.5	22.4	74.59	113.8	1,065.1	836.5	811.3	25.20	33.199		
7,350.0	7,141.2	7,259.0	6,917.5	13.7	22.5	74.26	148.7	1,065.1	837.7	812.2	25.48	32.873		
7,400.0	7,152.4	7,300.0	6,923.9	14.0	22.6	74.00	189.2	1,065.1	838.6	812.7	25.95	32.323		
7,450.0	7,159.4	7,330.1	6,926.7	14.3	22.7	73.87	219.2	1,065.1	839.2	812.6	26.52	31.645		
7,504.7	7,162.0	7,369.0	6,928.0	14.7	22.9	73.82	258.0	1,065.1	839.4	812.0	27.33	30.717		
7,544.0	7,162.0	7,408.3	6,928.0	15.0	23.1	73.82	297.3	1,065.1	839.4	811.4	27.96	30.019		
7,600.0	7,162.0	7,464.3	6,928.0	15.4	23.4	73.82	353.3	1,065.1	839.4	810.5	28.91	29.034		
7,700.0	7,162.0	7,564.3	6,928.0	16.4	24.0	73.82	453.3	1,065.1	839.4	808.5	30.83	27.228		
7,800.0	7,162.0	7,664.3	6,928.0	17.5	24.7	73.82	553.3	1,065.1	839.4	806.4	32.98	25.452		
7,900.0	7,162.0	7,764.3	6,928.0	18.7	25.6	73.82	653.3	1,065.1	839.4	804.0	35.32	23.764		
8,000.0	7,162.0	7,864.3	6,928.0	20.0	26.5	73.82	753.3	1,065.1	839.4	801.5	37.82	22.194		
8,100.0	7,162.0	7,964.3	6,928.0	21.3	27.5	73.82	853.3	1,065.1	839.4	798.9	40.44	20.754		
8,200.0	7,162.0	8,064.3	6,928.0	22.7	28.6	73.82	953.3	1,065.1	839.4	796.2	43.17	19.442		
8,300.0	7,162.0	8,164.3	6,928.0	24.1	29.7	73.82	1,053.3	1,065.1	839.4	793.4	45.99	18.252		
8,400.0	7,162.0	8,264.3	6,928.0	25.6	30.9	73.82	1,153.3	1,065.1	839.4	790.5	48.87	17.174		
8,500.0	7,162.0	8,364.3	6,928.0	27.1	32.2	73.82	1,253.3	1,065.1	839.4	787.5	51.82	16.199		
8,600.0	7,162.0	8,464.3	6,928.0	28.7	33.5	73.82	1,353.3	1,065.1	839.4	784.5	54.81	15.314		
8,700.0	7,162.0	8,564.3	6,928.0	30.2	34.9	73.82	1,453.3	1,065.1	839.4	781.5	57.84	14.511		
8,800.0	7,162.0	8,664.3	6,928.0	31.8	36.2	73.82	1,553.3	1,065.1	839.4	778.4	60.91	13.779		
8,900.0	7,162.0	8,764.3	6,928.0	33.4	37.6	73.82	1,653.3	1,065.1	839.4	775.3	64.01	13.112		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4E-20H-O264 - 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		
9,000.0	7,162.0	8,864.3	6,928.0	35.0	39.1	73.82	1,753.3	1,065.1	839.4	772.2	67.14	12.501		
9,100.0	7,162.0	8,964.3	6,928.0	36.7	40.5	73.82	1,853.3	1,065.1	839.4	769.1	70.29	11.941		
9,200.0	7,162.0	9,064.3	6,928.0	38.3	42.0	73.82	1,953.3	1,065.1	839.4	765.9	73.46	11.426		
9,300.0	7,162.0	9,164.3	6,928.0	40.0	43.5	73.82	2,053.3	1,065.1	839.4	762.7	76.64	10.951		
9,400.0	7,162.0	9,264.3	6,928.0	41.6	45.1	73.82	2,153.3	1,065.1	839.4	759.5	79.85	10.512		
9,500.0	7,162.0	9,364.3	6,928.0	43.3	46.6	73.82	2,253.3	1,065.1	839.4	756.3	83.06	10.105		
9,600.0	7,162.0	9,464.3	6,928.0	45.0	48.2	73.82	2,353.3	1,065.1	839.4	753.1	86.29	9.727		
9,700.0	7,162.0	9,564.3	6,928.0	46.6	49.7	73.82	2,453.3	1,065.1	839.4	749.8	89.52	9.376		
9,800.0	7,162.0	9,664.3	6,928.0	48.3	51.3	73.82	2,553.3	1,065.1	839.4	746.6	92.77	9.048		
9,900.0	7,162.0	9,764.3	6,928.0	50.0	52.9	73.82	2,653.3	1,065.1	839.4	743.3	96.03	8.741		
10,000.0	7,162.0	9,864.3	6,928.0	51.7	54.5	73.82	2,753.3	1,065.1	839.4	740.1	99.29	8.454		
10,100.0	7,162.0	9,964.3	6,928.0	53.4	56.1	73.82	2,853.3	1,065.1	839.3	736.8	102.56	8.184		
10,200.0	7,162.0	10,064.3	6,928.0	55.1	57.7	73.82	2,953.3	1,065.1	839.3	733.5	105.83	7.931		
10,300.0	7,162.0	10,164.3	6,928.0	56.8	59.4	73.82	3,053.3	1,065.1	839.3	730.2	109.12	7.692		
10,400.0	7,162.0	10,264.3	6,928.0	58.5	61.0	73.82	3,153.3	1,065.1	839.3	726.9	112.40	7.467		
10,500.0	7,162.0	10,364.3	6,928.0	60.2	62.6	73.82	3,253.3	1,065.1	839.3	723.7	115.70	7.255		
10,600.0	7,162.0	10,464.3	6,928.0	61.9	64.3	73.82	3,353.3	1,065.1	839.3	720.4	118.99	7.054		
10,700.0	7,162.0	10,564.3	6,928.0	63.7	65.9	73.82	3,453.3	1,065.1	839.3	717.1	122.29	6.863		
10,800.0	7,162.0	10,664.3	6,928.0	65.4	67.6	73.82	3,553.3	1,065.1	839.3	713.7	125.60	6.683		
10,900.0	7,162.0	10,764.3	6,928.0	67.1	69.3	73.82	3,653.3	1,065.1	839.3	710.4	128.91	6.511		
11,000.0	7,162.0	10,864.3	6,928.0	68.8	70.9	73.82	3,753.3	1,065.1	839.3	707.1	132.22	6.348		
11,100.0	7,162.0	10,964.3	6,928.0	70.5	72.6	73.82	3,853.3	1,065.1	839.3	703.8	135.53	6.193		
11,150.0	7,162.0	11,014.3	6,928.0	71.4	73.4	73.82	3,903.3	1,065.1	839.3	702.2	137.19	6.118		
11,150.0	7,162.0	11,014.3	6,928.0	71.4	73.4	73.82	3,903.3	1,065.1	839.3	702.2	137.19	6.118		
11,200.0	7,162.0	11,064.3	6,928.0	72.2	74.3	73.82	3,953.3	1,065.1	840.0	701.7	138.26	6.075		
11,300.0	7,162.0	11,164.1	6,928.0	74.0	76.0	73.88	4,053.1	1,065.1	845.1	704.9	140.17	6.029 SF		
11,400.0	7,162.0	11,263.6	6,928.0	75.7	77.6	73.99	4,152.6	1,065.1	855.2	713.5	141.73	6.034		
11,500.0	7,162.0	11,362.3	6,928.0	77.3	79.3	74.15	4,251.3	1,065.1	870.4	727.5	142.93	6.090		
11,600.0	7,162.0	11,460.1	6,928.0	79.0	80.9	74.35	4,349.1	1,065.1	890.7	746.9	143.74	6.196		
11,700.0	7,162.0	11,556.6	6,928.0	80.7	82.6	74.58	4,445.6	1,065.1	915.9	771.8	144.14	6.354		
11,747.9	7,162.0	11,602.3	6,928.0	81.4	83.3	74.70	4,491.3	1,065.1	929.7	785.6	144.18	6.448		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-Geolink MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.51	-0.3	37.5	37.5					
100.0	100.0	99.0	99.0	0.1	0.1	90.51	-0.3	37.5	37.5	37.2	0.24	154.149		
200.0	200.0	199.0	199.0	0.3	0.3	90.51	-0.3	37.5	37.5	36.9	0.59	63.342		
234.7	234.7	233.7	233.7	0.4	0.4	90.51	-0.3	37.5	37.5	36.8	0.71	52.589	CC, ES	
300.0	300.0	298.4	298.4	0.5	0.5	90.66	-0.4	37.9	37.9	36.9	0.94	40.310		
400.0	400.0	397.0	396.9	0.6	0.6	91.75	-1.3	41.1	41.2	39.9	1.29	31.988		
500.0	500.0	495.3	495.0	0.8	0.9	-47.81	-2.9	47.7	47.3	45.7	1.63	28.954		
600.0	600.0	593.3	592.4	1.0	1.1	-47.67	-5.3	57.4	55.6	53.6	1.98	28.032		
700.0	699.9	690.7	688.9	1.2	1.4	-48.06	-8.6	70.3	66.1	63.8	2.34	28.246		
800.0	799.7	787.5	784.3	1.4	1.7	-48.74	-12.6	86.2	78.7	76.0	2.70	29.101		
853.0	852.6	838.6	834.4	1.5	1.9	-49.15	-15.0	95.9	86.3	83.4	2.90	29.715		
900.0	899.4	883.6	878.4	1.6	2.1	-49.50	-17.4	105.1	93.6	90.5	3.08	30.377		
1,000.0	999.1	978.9	971.1	1.8	2.5	-49.78	-22.8	126.9	111.5	108.0	3.46	32.210		
1,100.0	1,098.8	1,077.1	1,066.1	2.0	2.9	-49.85	-28.8	150.6	130.7	126.9	3.85	33.950		
1,200.0	1,198.4	1,175.2	1,161.2	2.2	3.4	-49.90	-34.7	174.3	150.0	145.7	4.24	35.349		
1,300.0	1,298.1	1,273.3	1,256.2	2.4	3.8	-49.94	-40.7	198.0	169.2	164.6	4.64	36.494		
1,400.0	1,397.8	1,371.5	1,351.3	2.6	4.3	-49.97	-46.7	221.7	188.5	183.4	5.03	37.448		
1,500.0	1,497.5	1,469.6	1,446.3	2.9	4.8	-49.99	-52.6	245.4	207.7	202.3	5.43	38.254		
1,600.0	1,597.2	1,567.7	1,541.4	3.1	5.2	-50.01	-58.6	269.1	227.0	221.1	5.83	38.943		
1,700.0	1,696.9	1,665.9	1,636.4	3.3	5.7	-50.03	-64.5	292.8	246.2	240.0	6.23	39.539		
1,800.0	1,796.6	1,764.0	1,731.4	3.5	6.1	-50.04	-70.5	316.4	265.4	258.8	6.63	40.059		
1,900.0	1,896.3	1,862.1	1,826.5	3.7	6.6	-50.06	-76.4	340.1	284.7	277.7	7.03	40.517		
2,000.0	1,995.9	1,960.2	1,921.5	4.0	7.1	-50.07	-82.4	363.8	303.9	296.5	7.43	40.923		
2,100.0	2,095.6	2,058.4	2,016.6	4.2	7.5	-50.08	-88.4	387.5	323.2	315.3	7.83	41.285		
2,200.0	2,195.3	2,156.5	2,111.6	4.4	8.0	-50.09	-94.3	411.2	342.4	334.2	8.23	41.611		
2,300.0	2,295.0	2,254.6	2,206.6	4.6	8.5	-50.10	-100.3	434.9	361.7	353.0	8.63	41.904		
2,400.0	2,394.7	2,352.8	2,301.7	4.8	8.9	-50.10	-106.2	458.6	380.9	371.9	9.03	42.171		
2,500.0	2,494.4	2,450.9	2,396.7	5.1	9.4	-50.11	-112.2	482.3	400.2	390.7	9.43	42.413		
2,600.0	2,594.1	2,549.0	2,491.8	5.3	9.9	-50.11	-118.1	506.0	419.4	409.6	9.84	42.635		
2,700.0	2,693.8	2,647.2	2,586.8	5.5	10.4	-50.12	-124.1	529.7	438.6	428.4	10.24	42.839		
2,800.0	2,793.4	2,745.3	2,681.8	5.7	10.8	-50.12	-130.1	553.4	457.9	447.2	10.64	43.027		
2,900.0	2,893.1	2,843.4	2,776.9	5.9	11.3	-50.13	-136.0	577.1	477.1	466.1	11.04	43.201		
3,000.0	2,992.8	2,941.6	2,871.9	6.2	11.8	-50.13	-142.0	600.7	496.4	484.9	11.45	43.362		
3,100.0	3,092.5	3,039.7	2,967.0	6.4	12.2	-50.14	-147.9	624.4	515.6	503.8	11.85	43.511		
3,200.0	3,192.2	3,137.8	3,062.0	6.6	12.7	-50.14	-153.9	648.1	534.9	522.6	12.25	43.651		
3,300.0	3,291.9	3,235.9	3,157.1	6.8	13.2	-50.14	-159.8	671.8	554.1	541.5	12.66	43.781		
3,400.0	3,391.6	3,334.1	3,252.1	7.1	13.6	-50.15	-165.8	695.5	573.4	560.3	13.06	43.903		
3,500.0	3,491.3	3,432.2	3,347.1	7.3	14.1	-50.15	-171.8	719.2	592.6	579.1	13.46	44.017		
3,600.0	3,590.9	3,530.3	3,442.2	7.5	14.6	-50.15	-177.7	742.9	611.8	598.0	13.87	44.125		
3,700.0	3,690.6	3,628.5	3,537.2	7.7	15.1	-50.15	-183.7	766.6	631.1	616.8	14.27	44.226		
3,800.0	3,790.3	3,726.6	3,632.3	7.9	15.5	-50.16	-189.6	790.3	650.3	635.7	14.67	44.322		
3,900.0	3,890.0	3,824.7	3,727.3	8.2	16.0	-50.16	-195.6	814.0	669.6	654.5	15.08	44.412		
4,000.0	3,989.7	3,922.9	3,822.3	8.4	16.5	-50.16	-201.5	837.7	688.8	673.3	15.48	44.498		
4,100.0	4,089.4	4,021.0	3,917.4	8.6	16.9	-50.16	-207.5	861.3	708.1	692.2	15.88	44.579		
4,200.0	4,189.1	4,119.1	4,012.4	8.8	17.4	-50.17	-213.5	885.0	727.3	711.0	16.29	44.655		
4,300.0	4,288.8	4,217.3	4,107.5	9.1	17.9	-50.17	-219.4	908.7	746.6	729.9	16.69	44.728		
4,400.0	4,388.4	4,315.4	4,202.5	9.3	18.3	-50.17	-225.4	932.4	765.8	748.7	17.09	44.798		
4,500.0	4,488.1	4,413.5	4,297.6	9.5	18.8	-50.17	-231.3	956.1	785.0	767.5	17.50	44.864		
4,600.0	4,587.8	4,511.6	4,392.6	9.7	19.3	-50.17	-237.3	979.8	804.3	786.4	17.90	44.927		
4,700.0	4,687.5	4,609.8	4,487.6	9.9	19.8	-50.17	-243.2	1,003.5	823.5	805.2	18.31	44.988		
4,800.0	4,787.2	4,707.9	4,582.7	10.2	20.2	-50.17	-249.2	1,027.2	842.8	824.1	18.71	45.045		
4,900.0	4,886.9	4,806.0	4,677.7	10.4	20.7	-50.18	-255.2	1,050.9	862.0	842.9	19.11	45.100		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - 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				
5,000.0	4,986.6	4,904.2	4,772.8	10.6	21.2	-50.18	-261.1	1,074.6	881.3	861.7	19.52	45.153				
5,100.0	5,086.3	5,002.3	4,867.8	10.8	21.6	-50.18	-267.1	1,098.3	900.5	880.6	19.92	45.204				
5,200.0	5,185.9	5,100.4	4,962.8	11.0	22.1	-50.18	-273.0	1,121.9	919.7	899.4	20.32	45.252				
5,300.0	5,285.6	5,198.6	5,057.9	11.3	22.6	-50.18	-279.0	1,145.6	939.0	918.3	20.73	45.299				
5,400.0	5,385.3	5,296.7	5,152.9	11.5	23.0	-50.18	-284.9	1,169.3	958.2	937.1	21.13	45.344				
5,500.0	5,485.0	5,394.8	5,248.0	11.7	23.5	-50.18	-290.9	1,193.0	977.5	955.9	21.54	45.387				
5,562.6	5,547.4	5,467.0	5,317.9	11.9	23.9	-50.19	-295.2	1,210.3	989.4	967.6	21.81	45.364				
5,600.0	5,584.7	5,522.5	5,371.9	11.9	24.1	-50.25	-298.3	1,222.6	995.9	973.9	22.00	45.268				
5,700.0	5,684.5	5,672.3	5,518.8	12.1	24.6	-50.38	-305.4	1,250.7	1,010.7	988.3	22.48	44.952				
5,800.0	5,784.4	5,823.8	5,668.9	12.3	25.0	-50.47	-310.7	1,271.6	1,021.6	998.6	22.94	44.539				
5,900.0	5,884.3	5,976.6	5,821.0	12.5	25.3	-50.53	-314.0	1,284.8	1,028.4	1,005.0	23.36	44.032				
6,000.0	5,984.3	6,130.1	5,974.4	12.6	25.5	-50.55	-315.3	1,290.1	1,031.1	1,007.4	23.74	43.430				
6,015.7	6,000.0	6,154.2	5,998.5	12.6	25.5	90.02	-315.3	1,290.2	1,031.2	1,007.4	23.80	43.325				
6,100.0	6,084.3	6,239.0	6,083.3	12.8	25.5	90.02	-315.3	1,290.2	1,031.2	1,007.1	24.06	42.852				
6,200.0	6,184.3	6,339.0	6,183.3	12.9	25.6	90.02	-315.3	1,290.2	1,031.2	1,006.8	24.38	42.305				
6,300.0	6,284.3	6,439.0	6,283.3	13.1	25.7	90.02	-315.3	1,290.2	1,031.2	1,006.5	24.69	41.769				
6,400.0	6,384.3	6,539.0	6,383.3	13.2	25.8	90.02	-315.3	1,290.2	1,031.2	1,006.2	25.00	41.246				
6,467.7	6,452.0	6,606.7	6,451.0	13.3	25.8	90.02	-315.3	1,290.2	1,031.2	1,006.0	25.21	40.902				
6,500.0	6,484.3	6,639.0	6,483.3	13.4	25.8	89.95	-314.2	1,290.2	1,031.2	1,005.9	25.31	40.748				
6,604.7	6,589.0	6,741.0	6,584.0	13.5	25.9	89.10	-298.7	1,290.2	1,031.3	1,005.7	25.66	40.188				
6,650.0	6,634.3	6,783.4	6,624.8	13.6	25.8	88.52	-287.1	1,290.2	1,031.5	1,005.7	25.79	39.991				
6,700.0	6,683.9	6,829.4	6,667.9	13.6	25.8	87.89	-271.1	1,290.2	1,031.9	1,006.0	25.88	39.870				
6,750.0	6,732.8	6,874.6	6,708.9	13.6	25.8	87.28	-252.0	1,290.2	1,032.4	1,006.5	25.91	39.844				
6,800.0	6,780.6	6,919.2	6,747.6	13.5	25.8	86.69	-230.2	1,290.2	1,033.0	1,007.1	25.89	39.903				
6,850.0	6,826.9	6,963.0	6,784.1	13.5	25.7	86.13	-205.7	1,290.2	1,033.6	1,007.8	25.82	40.036				
6,900.0	6,871.4	7,006.3	6,818.1	13.4	25.7	85.60	-179.0	1,290.2	1,034.3	1,008.6	25.71	40.227				
6,950.0	6,913.8	7,050.0	6,850.2	13.4	25.7	85.08	-149.5	1,290.2	1,035.1	1,009.5	25.58	40.458				
7,000.0	6,953.7	7,091.5	6,878.6	13.3	25.7	84.62	-119.2	1,290.2	1,035.9	1,010.4	25.45	40.696				
7,050.0	6,990.8	7,133.4	6,905.0	13.3	25.7	84.19	-86.7	1,290.2	1,036.6	1,011.3	25.33	40.918				
7,100.0	7,024.9	7,174.9	6,928.7	13.2	25.7	83.79	-52.6	1,290.2	1,037.4	1,012.1	25.25	41.089				
7,150.0	7,055.7	7,216.1	6,949.8	13.3	25.7	83.44	-17.2	1,290.2	1,038.1	1,012.9	25.21	41.184				
7,200.0	7,082.9	7,257.1	6,968.1	13.3	25.7	83.12	19.4	1,290.2	1,038.7	1,013.5	25.27	41.113				
7,250.0	7,106.3	7,300.0	6,984.5	13.4	25.8	82.84	59.1	1,290.2	1,039.3	1,013.9	25.40	40.916				
7,300.0	7,125.8	7,338.3	6,996.6	13.5	25.9	82.63	95.5	1,290.2	1,039.8	1,014.2	25.65	40.538				
7,350.0	7,141.2	7,378.7	7,006.6	13.7	26.0	82.45	134.6	1,290.2	1,040.2	1,014.2	26.02	39.980				
7,400.0	7,152.4	7,419.0	7,013.9	14.0	26.1	82.33	174.1	1,290.2	1,040.5	1,014.0	26.51	39.251				
7,450.0	7,159.4	7,459.1	7,018.3	14.3	26.2	82.25	214.1	1,290.2	1,040.7	1,013.6	27.12	38.371				
7,504.7	7,162.0	7,503.1	7,020.0	14.7	26.3	82.22	258.0	1,290.2	1,040.8	1,012.8	27.92	37.271				
7,600.0	7,162.0	7,598.4	7,020.0	15.4	26.8	82.22	353.3	1,290.2	1,040.8	1,011.2	29.54	35.231				
7,700.0	7,162.0	7,698.4	7,020.0	16.4	27.3	82.22	453.3	1,290.2	1,040.8	1,009.2	31.52	33.016				
7,800.0	7,162.0	7,798.4	7,020.0	17.5	27.9	82.22	553.3	1,290.2	1,040.8	1,007.0	33.75	30.840				
7,900.0	7,162.0	7,898.4	7,020.0	18.7	28.7	82.22	653.3	1,290.2	1,040.8	1,004.6	36.17	28.775				
8,000.0	7,162.0	7,998.4	7,020.0	20.0	29.5	82.22	753.3	1,290.2	1,040.8	1,002.0	38.75	26.857				
8,100.0	7,162.0	8,098.4	7,020.0	21.3	30.4	82.22	853.3	1,290.2	1,040.8	999.3	41.47	25.100				
8,200.0	7,162.0	8,198.4	7,020.0	22.7	31.4	82.22	953.3	1,290.2	1,040.8	996.5	44.29	23.501				
8,300.0	7,162.0	8,298.4	7,020.0	24.1	32.4	82.22	1,053.3	1,290.2	1,040.8	993.6	47.19	22.053				
8,400.0	7,162.0	8,398.4	7,020.0	25.6	33.5	82.22	1,153.3	1,290.2	1,040.8	990.6	50.17	20.743				
8,500.0	7,162.0	8,498.4	7,020.0	27.1	34.7	82.22	1,253.3	1,290.2	1,040.8	987.5	53.21	19.558				
8,600.0	7,162.0	8,598.4	7,020.0	28.7	35.9	82.22	1,353.3	1,290.2	1,040.8	984.5	56.30	18.484				
8,700.0	7,162.0	8,698.4	7,020.0	30.2	37.1	82.22	1,453.3	1,290.2	1,040.8	981.3	59.44	17.510				
8,800.0	7,162.0	8,798.4	7,020.0	31.8	38.4	82.22	1,553.3	1,290.2	1,040.8	978.2	62.61	16.624				
8,900.0	7,162.0	8,898.4	7,020.0	33.4	39.8	82.22	1,653.3	1,290.2	1,040.8	975.0	65.81	15.815				

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4J-20H-O264 - 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		
9,000.0	7,162.0	8,998.4	7,020.0	35.0	41.1	82.22	1,753.3	1,290.2	1,040.8	971.7	69.04	15.076		
9,100.0	7,162.0	9,098.4	7,020.0	36.7	42.5	82.22	1,853.3	1,290.2	1,040.8	968.5	72.29	14.398		
9,200.0	7,162.0	9,198.4	7,020.0	38.3	43.9	82.22	1,953.3	1,290.2	1,040.8	965.2	75.56	13.775		
9,300.0	7,162.0	9,298.4	7,020.0	40.0	45.4	82.22	2,053.3	1,290.2	1,040.8	961.9	78.84	13.200		
9,400.0	7,162.0	9,398.4	7,020.0	41.6	46.8	82.22	2,153.3	1,290.2	1,040.8	958.6	82.15	12.669		
9,500.0	7,162.0	9,498.4	7,020.0	43.3	48.3	82.22	2,253.3	1,290.2	1,040.8	955.3	85.47	12.178		
9,600.0	7,162.0	9,598.4	7,020.0	45.0	49.8	82.22	2,353.3	1,290.2	1,040.8	952.0	88.79	11.721		
9,700.0	7,162.0	9,698.4	7,020.0	46.6	51.3	82.22	2,453.3	1,290.2	1,040.8	948.6	92.13	11.296		
9,800.0	7,162.0	9,798.4	7,020.0	48.3	52.9	82.22	2,553.3	1,290.2	1,040.8	945.3	95.48	10.900		
9,900.0	7,162.0	9,898.4	7,020.0	50.0	54.4	82.22	2,653.3	1,290.2	1,040.8	941.9	98.84	10.529		
10,000.0	7,162.0	9,998.4	7,020.0	51.7	56.0	82.22	2,753.3	1,290.2	1,040.8	938.6	102.21	10.183		
10,100.0	7,162.0	10,098.4	7,020.0	53.4	57.5	82.22	2,853.3	1,290.2	1,040.8	935.2	105.58	9.857		
10,200.0	7,162.0	10,198.4	7,020.0	55.1	59.1	82.22	2,953.3	1,290.2	1,040.8	931.8	108.96	9.551		
10,300.0	7,162.0	10,298.4	7,020.0	56.8	60.7	82.22	3,053.3	1,290.2	1,040.8	928.4	112.35	9.264		
10,400.0	7,162.0	10,398.4	7,020.0	58.5	62.3	82.22	3,153.3	1,290.2	1,040.8	925.0	115.74	8.992		
10,500.0	7,162.0	10,498.4	7,020.0	60.2	63.9	82.22	3,253.3	1,290.2	1,040.8	921.6	119.14	8.736		
10,600.0	7,162.0	10,598.4	7,020.0	61.9	65.5	82.22	3,353.3	1,290.2	1,040.8	918.2	122.54	8.493		
10,700.0	7,162.0	10,698.4	7,020.0	63.7	67.2	82.22	3,453.3	1,290.2	1,040.8	914.8	125.94	8.264		
10,800.0	7,162.0	10,798.4	7,020.0	65.4	68.8	82.22	3,553.3	1,290.2	1,040.8	911.4	129.35	8.046		
10,900.0	7,162.0	10,898.4	7,020.0	67.1	70.4	82.22	3,653.3	1,290.2	1,040.8	908.0	132.76	7.839		
11,000.0	7,162.0	10,998.4	7,020.0	68.8	72.1	82.22	3,753.3	1,290.2	1,040.8	904.6	136.18	7.643		
11,100.0	7,162.0	11,098.4	7,020.0	70.5	73.7	82.22	3,853.3	1,290.2	1,040.8	901.2	139.60	7.455		
11,150.0	7,162.0	11,148.4	7,020.0	71.4	74.5	82.22	3,903.3	1,290.2	1,040.8	899.5	141.31	7.365		
11,150.0	7,162.0	11,148.4	7,020.0	71.4	74.5	82.22	3,903.3	1,290.2	1,040.8	899.5	141.31	7.365		
11,200.0	7,162.0	11,198.4	7,020.0	72.2	75.4	82.22	3,953.3	1,290.2	1,041.4	899.1	142.31	7.318		
11,300.0	7,162.0	11,298.3	7,020.0	74.0	77.0	82.24	4,053.1	1,290.2	1,046.7	902.6	144.04	7.266 SF		
11,400.0	7,162.0	11,397.7	7,020.0	75.7	78.7	82.27	4,152.6	1,290.2	1,057.1	911.7	145.38	7.271		
11,500.0	7,162.0	11,496.4	7,020.0	77.3	80.3	82.32	4,251.3	1,290.2	1,072.8	926.5	146.32	7.332		
11,600.0	7,162.0	11,594.2	7,020.0	79.0	81.9	82.38	4,349.1	1,290.2	1,093.6	946.8	146.84	7.448		
11,700.0	7,162.0	11,690.7	7,020.0	80.7	83.6	82.45	4,445.6	1,290.2	1,119.5	972.6	146.92	7.620		
11,747.9	7,162.0	11,736.4	7,020.0	81.4	84.3	82.49	4,491.3	1,290.2	1,133.7	986.9	146.80	7.723		





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.41	-0.3	45.0	45.0					
100.0	100.0	99.0	99.0	0.1	0.1	90.41	-0.3	45.0	45.0	44.8	0.24	185.206		
200.0	200.0	199.0	199.0	0.3	0.3	90.41	-0.3	45.0	45.0	44.4	0.59	76.104 CC, ES		
300.0	300.0	297.5	297.4	0.5	0.5	90.82	-0.7	46.6	46.7	45.7	0.94	49.715		
400.0	400.0	395.7	395.5	0.6	0.7	91.91	-1.7	51.6	51.7	50.4	1.29	40.081		
500.0	500.0	493.5	493.0	0.8	0.9	-47.80	-3.5	59.7	59.5	57.9	1.63	36.483		
600.0	600.0	590.8	589.6	1.0	1.1	-47.73	-5.9	71.1	69.5	67.6	1.98	35.108		
700.0	699.9	687.6	685.2	1.2	1.4	-48.15	-9.0	85.5	81.7	79.4	2.33	34.996		
800.0	799.7	783.6	779.6	1.4	1.8	-48.84	-12.7	103.0	96.0	93.3	2.70	35.593		
853.0	852.6	834.2	829.1	1.5	2.0	-49.26	-15.0	113.4	104.5	101.6	2.90	36.090		
900.0	899.4	878.8	872.5	1.6	2.2	-49.64	-17.1	123.3	112.6	109.5	3.07	36.657		
1,000.0	999.1	972.9	963.6	1.8	2.7	-50.06	-22.0	146.4	132.2	128.8	3.45	38.314		
1,100.0	1,098.8	1,066.9	1,053.7	2.0	3.1	-50.14	-27.6	172.2	154.9	151.0	3.83	40.412		
1,200.0	1,198.4	1,164.1	1,146.7	2.2	3.7	-50.13	-33.5	199.8	178.4	174.2	4.22	42.263		
1,300.0	1,298.1	1,261.2	1,239.7	2.4	4.2	-50.13	-39.4	227.5	202.0	197.4	4.61	43.783		
1,400.0	1,397.8	1,358.4	1,332.7	2.6	4.7	-50.12	-45.3	255.1	225.6	220.6	5.01	45.051		
1,500.0	1,497.5	1,455.6	1,425.7	2.9	5.2	-50.12	-51.2	282.7	249.2	243.8	5.40	46.124		
1,600.0	1,597.2	1,552.8	1,518.7	3.1	5.8	-50.12	-57.2	310.3	272.8	267.0	5.80	47.043		
1,700.0	1,696.9	1,650.0	1,611.6	3.3	6.3	-50.12	-63.1	338.0	296.3	290.1	6.19	47.839		
1,800.0	1,796.6	1,747.1	1,704.6	3.5	6.8	-50.11	-69.0	365.6	319.9	313.3	6.59	48.534		
1,900.0	1,896.3	1,844.3	1,797.6	3.7	7.4	-50.11	-74.9	393.2	343.5	336.5	6.99	49.146		
2,000.0	1,995.9	1,941.5	1,890.6	4.0	7.9	-50.11	-80.8	420.8	367.1	359.7	7.39	49.690		
2,100.0	2,095.6	2,038.7	1,983.6	4.2	8.5	-50.11	-86.8	448.5	390.7	382.9	7.79	50.176		
2,200.0	2,195.3	2,135.9	2,076.5	4.4	9.0	-50.11	-92.7	476.1	414.2	406.1	8.18	50.612		
2,300.0	2,295.0	2,233.0	2,169.5	4.6	9.5	-50.11	-98.6	503.7	437.8	429.2	8.58	51.006		
2,400.0	2,394.7	2,330.2	2,262.5	4.8	10.1	-50.11	-104.5	531.3	461.4	452.4	8.98	51.364		
2,500.0	2,494.4	2,427.4	2,355.5	5.1	10.6	-50.11	-110.4	559.0	485.0	475.6	9.38	51.690		
2,600.0	2,594.1	2,524.6	2,448.5	5.3	11.1	-50.11	-116.4	586.6	508.6	498.8	9.78	51.989		
2,700.0	2,693.8	2,621.8	2,541.5	5.5	11.7	-50.11	-122.3	614.2	532.2	522.0	10.18	52.263		
2,800.0	2,793.4	2,718.9	2,634.4	5.7	12.2	-50.11	-128.2	641.8	555.7	545.1	10.58	52.516		
2,900.0	2,893.1	2,816.1	2,727.4	5.9	12.8	-50.10	-134.1	669.4	579.3	568.3	10.98	52.750		
3,000.0	2,992.8	2,913.3	2,820.4	6.2	13.3	-50.10	-140.0	697.1	602.9	591.5	11.38	52.966		
3,100.0	3,092.5	3,010.5	2,913.4	6.4	13.8	-50.10	-145.9	724.7	626.5	614.7	11.78	53.168		
3,200.0	3,192.2	3,107.7	3,006.4	6.6	14.4	-50.10	-151.9	752.3	650.1	637.9	12.18	53.356		
3,300.0	3,291.9	3,204.8	3,099.4	6.8	14.9	-50.10	-157.8	779.9	673.6	661.1	12.58	53.532		
3,400.0	3,391.6	3,302.0	3,192.3	7.1	15.4	-50.10	-163.7	807.6	697.2	684.2	12.98	53.696		
3,500.0	3,491.3	3,399.2	3,285.3	7.3	16.0	-50.10	-169.6	835.2	720.8	707.4	13.39	53.851		
3,600.0	3,590.9	3,496.4	3,378.3	7.5	16.5	-50.10	-175.5	862.8	744.4	730.6	13.79	53.996		
3,700.0	3,690.6	3,593.6	3,471.3	7.7	17.1	-50.10	-181.5	890.4	768.0	753.8	14.19	54.133		
3,800.0	3,790.3	3,690.7	3,564.3	7.9	17.6	-50.10	-187.4	918.1	791.5	777.0	14.59	54.262		
3,900.0	3,890.0	3,787.9	3,657.3	8.2	18.1	-50.10	-193.3	945.7	815.1	800.1	14.99	54.384		
4,000.0	3,989.7	3,885.1	3,750.2	8.4	18.7	-50.10	-199.2	973.3	838.7	823.3	15.39	54.499		
4,100.0	4,089.4	3,982.3	3,843.2	8.6	19.2	-50.10	-205.1	1,000.9	862.3	846.5	15.79	54.609		
4,200.0	4,189.1	4,079.5	3,936.2	8.8	19.8	-50.10	-211.0	1,028.5	885.9	869.7	16.19	54.713		
4,300.0	4,288.8	4,176.6	4,029.2	9.1	20.3	-50.10	-217.0	1,056.2	909.4	892.9	16.59	54.812		
4,400.0	4,388.4	4,273.8	4,122.2	9.3	20.8	-50.10	-222.9	1,083.8	933.0	916.0	16.99	54.906		
4,500.0	4,488.1	4,371.0	4,215.2	9.5	21.4	-50.10	-228.8	1,111.4	956.6	939.2	17.39	54.995		
4,600.0	4,587.8	4,468.2	4,308.1	9.7	21.9	-50.10	-234.7	1,139.0	980.2	962.4	17.80	55.081		
4,700.0	4,687.5	4,565.4	4,401.1	9.9	22.5	-50.10	-240.6	1,166.7	1,003.8	985.6	18.20	55.162		
4,800.0	4,787.2	4,662.5	4,494.1	10.2	23.0	-50.10	-246.6	1,194.3	1,027.3	1,008.7	18.60	55.240		
4,900.0	4,886.9	4,759.7	4,587.1	10.4	23.5	-50.10	-252.5	1,221.9	1,050.9	1,031.9	19.00	55.315		
5,000.0	4,986.6	4,856.9	4,680.1	10.6	24.1	-50.10	-258.4	1,249.5	1,074.5	1,055.1	19.40	55.386		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - HZ - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
5,100.0	5,086.3	4,954.1	4,773.1	10.8	24.6	-50.10	-264.3	1,277.2	1,098.1	1,078.3	19.80	55.455				
5,200.0	5,185.9	5,051.3	4,866.0	11.0	25.2	-50.10	-270.2	1,304.8	1,121.7	1,101.5	20.20	55.521				
5,300.0	5,285.6	5,148.4	4,959.0	11.3	25.7	-50.10	-276.1	1,332.4	1,145.3	1,124.6	20.60	55.584				
5,400.0	5,385.3	5,245.6	5,052.0	11.5	26.2	-50.10	-282.1	1,360.0	1,168.8	1,147.8	21.01	55.645				
5,500.0	5,485.0	5,342.8	5,145.0	11.7	26.8	-50.10	-288.0	1,387.7	1,192.4	1,171.0	21.41	55.703				
5,562.6	5,547.4	5,430.0	5,228.7	11.9	27.2	-50.11	-293.2	1,411.8	1,206.8	1,185.1	21.71	55.586				
5,600.0	5,584.7	5,492.4	5,288.9	11.9	27.5	-50.18	-296.5	1,427.6	1,214.5	1,192.6	21.92	55.412				
5,700.0	5,684.5	5,661.4	5,453.8	12.1	28.2	-50.34	-304.3	1,463.8	1,232.0	1,209.5	22.44	54.891				
5,800.0	5,784.4	5,833.3	5,623.3	12.3	28.7	-50.46	-310.1	1,490.9	1,244.8	1,221.9	22.94	54.272				
5,900.0	5,884.3	6,007.0	5,796.2	12.5	29.0	-50.53	-313.8	1,508.1	1,252.9	1,229.5	23.39	53.558				
6,000.0	5,984.3	6,181.8	5,970.8	12.6	29.2	-50.56	-315.3	1,515.1	1,256.2	1,232.3	23.81	52.750				
6,015.7	6,000.0	6,209.3	5,998.2	12.6	29.2	90.01	-315.3	1,515.2	1,256.2	1,232.3	23.88	52.612				
6,100.0	6,084.3	6,294.3	6,083.3	12.8	29.3	90.01	-315.3	1,515.2	1,256.2	1,232.1	24.14	52.038				
6,200.0	6,184.3	6,394.3	6,183.3	12.9	29.4	90.01	-315.3	1,515.2	1,256.2	1,231.8	24.45	51.374				
6,300.0	6,284.3	6,494.3	6,283.3	13.1	29.4	90.01	-315.3	1,515.2	1,256.2	1,231.5	24.77	50.725				
6,400.0	6,384.3	6,594.3	6,383.3	13.2	29.5	90.01	-315.3	1,515.2	1,256.2	1,231.1	25.08	50.091				
6,500.0	6,484.3	6,694.3	6,483.3	13.4	29.6	90.01	-315.3	1,515.2	1,256.2	1,230.8	25.39	49.470				
6,604.7	6,589.0	6,799.0	6,588.0	13.5	29.6	90.01	-315.3	1,515.2	1,256.2	1,230.5	25.72	48.835				
6,650.0	6,634.3	6,844.4	6,633.3	13.6	29.7	90.01	-313.5	1,515.2	1,256.2	1,230.4	25.81	48.670				
6,700.0	6,683.9	6,894.4	6,683.0	13.6	29.7	90.01	-307.4	1,515.2	1,256.2	1,230.4	25.85	48.596				
6,750.0	6,732.8	6,944.4	6,731.9	13.6	29.7	90.01	-297.0	1,515.2	1,256.2	1,230.4	25.84	48.625				
6,800.0	6,780.6	6,994.5	6,779.7	13.5	29.6	90.01	-282.3	1,515.2	1,256.2	1,230.5	25.77	48.739				
6,850.0	6,826.9	7,044.5	6,826.0	13.5	29.6	90.01	-263.6	1,515.2	1,256.2	1,230.5	25.68	48.920				
6,900.0	6,871.4	7,094.5	6,870.6	13.4	29.6	90.01	-240.8	1,515.2	1,256.2	1,230.7	25.56	49.143				
6,950.0	6,913.8	7,144.5	6,913.0	13.4	29.6	90.01	-214.3	1,515.2	1,256.2	1,230.8	25.44	49.379				
7,000.0	6,953.7	7,194.6	6,952.9	13.3	29.5	90.01	-184.1	1,515.2	1,256.2	1,230.9	25.33	49.597				
7,050.0	6,990.8	7,244.6	6,990.0	13.3	29.5	90.01	-150.7	1,515.2	1,256.2	1,231.0	25.25	49.760				
7,100.0	7,024.9	7,294.6	7,024.1	13.2	29.5	90.01	-114.0	1,515.2	1,256.2	1,231.0	25.21	49.832				
7,150.0	7,055.7	7,344.6	7,054.8	13.3	29.5	90.01	-74.6	1,515.2	1,256.2	1,231.0	25.24	49.777				
7,200.0	7,082.9	7,394.6	7,082.0	13.3	29.5	90.01	-32.7	1,515.2	1,256.2	1,230.9	25.34	49.567				
7,250.0	7,106.3	7,444.7	7,105.4	13.4	29.6	90.01	11.5	1,515.2	1,256.2	1,230.7	25.54	49.180				
7,300.0	7,125.8	7,494.7	7,124.9	13.5	29.6	90.01	57.6	1,515.2	1,256.2	1,230.4	25.85	48.605				
7,350.0	7,141.2	7,544.7	7,140.3	13.7	29.7	90.01	105.1	1,515.2	1,256.2	1,230.0	26.26	47.847				
7,400.0	7,152.4	7,594.7	7,151.5	14.0	29.8	90.00	153.9	1,515.2	1,256.2	1,229.5	26.77	46.921				
7,450.0	7,159.4	7,644.7	7,158.4	14.3	29.9	90.00	203.4	1,515.2	1,256.2	1,228.8	27.40	45.854				
7,504.7	7,162.0	7,699.4	7,161.0	14.7	30.1	90.00	257.9	1,515.2	1,256.2	1,228.0	28.19	44.567				
7,600.0	7,162.0	7,794.7	7,161.0	15.4	30.4	90.00	353.3	1,515.2	1,256.2	1,226.4	29.82	42.128				
7,700.0	7,162.0	7,894.7	7,161.0	16.4	30.9	90.00	453.3	1,515.2	1,256.2	1,224.4	31.82	39.484				
7,800.0	7,162.0	7,994.7	7,161.0	17.5	31.4	90.00	553.3	1,515.2	1,256.2	1,222.2	34.06	36.885				
7,900.0	7,162.0	8,094.7	7,161.0	18.7	32.1	90.00	653.3	1,515.2	1,256.2	1,219.7	36.50	34.417				
8,000.0	7,162.0	8,194.7	7,161.0	20.0	32.8	90.00	753.3	1,515.2	1,256.2	1,217.1	39.11	32.125				
8,100.0	7,162.0	8,294.7	7,161.0	21.3	33.6	90.00	853.3	1,515.2	1,256.2	1,214.4	41.84	30.023				
8,200.0	7,162.0	8,394.7	7,161.0	22.7	34.5	90.00	953.3	1,515.2	1,256.2	1,211.5	44.69	28.112				
8,300.0	7,162.0	8,494.7	7,161.0	24.1	35.4	90.00	1,053.3	1,515.2	1,256.2	1,208.6	47.62	26.380				
8,400.0	7,162.0	8,594.7	7,161.0	25.6	36.4	90.00	1,153.3	1,515.2	1,256.2	1,205.6	50.63	24.814				
8,500.0	7,162.0	8,694.7	7,161.0	27.1	37.5	90.00	1,253.3	1,515.2	1,256.2	1,202.5	53.69	23.396				
8,600.0	7,162.0	8,794.7	7,161.0	28.7	38.6	90.00	1,353.3	1,515.2	1,256.2	1,199.4	56.81	22.112				
8,700.0	7,162.0	8,894.7	7,161.0	30.2	39.7	90.00	1,453.3	1,515.2	1,256.2	1,196.3	59.97	20.946				
8,800.0	7,162.0	8,994.7	7,161.0	31.8	40.9	90.00	1,553.3	1,515.2	1,256.2	1,193.1	63.17	19.886				
8,900.0	7,162.0	9,094.7	7,161.0	33.4	42.2	90.00	1,653.3	1,515.2	1,256.2	1,189.8	66.40	18.919				
9,000.0	7,162.0	9,194.7	7,161.0	35.0	43.5	90.00	1,753.3	1,515.2	1,256.2	1,186.6	69.66	18.034				
9,100.0	7,162.0	9,294.7	7,161.0	36.7	44.8	90.00	1,853.3	1,515.2	1,256.2	1,183.3	72.94	17.223				

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - Dale 4K-20H-O264 - 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		Between Centres (ft)	Between Ellipses (ft)	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)						
9,200.0	7,162.0	9,394.7	7,161.0	38.3	46.1	90.00	1,953.3	1,515.2	1,256.2	1,180.0	76.24	16.478		
9,300.0	7,162.0	9,494.7	7,161.0	40.0	47.5	90.00	2,053.3	1,515.2	1,256.2	1,176.7	79.56	15.791		
9,400.0	7,162.0	9,594.7	7,161.0	41.6	48.9	90.00	2,153.3	1,515.2	1,256.2	1,173.4	82.89	15.156		
9,500.0	7,162.0	9,694.7	7,161.0	43.3	50.3	90.00	2,253.3	1,515.2	1,256.2	1,170.0	86.24	14.567		
9,600.0	7,162.0	9,794.7	7,161.0	45.0	51.8	90.00	2,353.3	1,515.2	1,256.2	1,166.6	89.60	14.021		
9,700.0	7,162.0	9,894.7	7,161.0	46.6	53.2	90.00	2,453.3	1,515.2	1,256.2	1,163.3	92.97	13.513		
9,800.0	7,162.0	9,994.7	7,161.0	48.3	54.7	90.00	2,553.3	1,515.2	1,256.2	1,159.9	96.35	13.039		
9,900.0	7,162.0	10,094.7	7,161.0	50.0	56.2	90.00	2,653.3	1,515.2	1,256.2	1,156.5	99.74	12.596		
10,000.0	7,162.0	10,194.7	7,161.0	51.7	57.7	90.00	2,753.3	1,515.2	1,256.2	1,153.1	103.13	12.181		
10,100.0	7,162.0	10,294.7	7,161.0	53.4	59.2	90.00	2,853.3	1,515.3	1,256.3	1,149.7	106.54	11.791		
10,200.0	7,162.0	10,394.7	7,161.0	55.1	60.8	90.00	2,953.3	1,515.3	1,256.3	1,146.3	109.95	11.426		
10,300.0	7,162.0	10,494.7	7,161.0	56.8	62.3	90.00	3,053.3	1,515.3	1,256.3	1,142.9	113.37	11.081		
10,400.0	7,162.0	10,594.7	7,161.0	58.5	63.9	90.00	3,153.3	1,515.3	1,256.3	1,139.5	116.79	10.757		
10,500.0	7,162.0	10,694.7	7,161.0	60.2	65.4	90.00	3,253.3	1,515.3	1,256.3	1,136.0	120.22	10.450		
10,600.0	7,162.0	10,794.7	7,161.0	61.9	67.0	90.00	3,353.3	1,515.3	1,256.3	1,132.6	123.65	10.160		
10,700.0	7,162.0	10,894.7	7,161.0	63.7	68.6	90.00	3,453.3	1,515.3	1,256.3	1,129.2	127.08	9.885		
10,800.0	7,162.0	10,994.7	7,161.0	65.4	70.2	90.00	3,553.3	1,515.3	1,256.3	1,125.7	130.52	9.625		
10,900.0	7,162.0	11,094.7	7,161.0	67.1	71.8	90.00	3,653.3	1,515.3	1,256.3	1,122.3	133.97	9.377		
11,000.0	7,162.0	11,194.7	7,161.0	68.8	73.4	90.00	3,753.3	1,515.3	1,256.3	1,118.8	137.41	9.142		
11,100.0	7,162.0	11,294.7	7,161.0	70.5	75.0	90.00	3,853.3	1,515.3	1,256.3	1,115.4	140.86	8.918		
11,150.0	7,162.0	11,344.7	7,161.0	71.4	75.8	90.00	3,903.3	1,515.3	1,256.3	1,113.7	142.59	8.810		
11,200.0	7,162.0	11,394.7	7,161.0	72.2	76.7	90.00	3,953.3	1,515.3	1,256.9	1,113.4	143.50	8.759		
11,300.0	7,162.0	11,494.5	7,161.0	74.0	78.3	90.00	4,053.1	1,515.3	1,262.2	1,117.2	145.04	8.703 SF		
11,400.0	7,162.0	11,594.0	7,161.0	75.7	79.9	90.00	4,152.6	1,515.3	1,272.8	1,126.6	146.18	8.707		
11,500.0	7,162.0	11,692.7	7,161.0	77.3	81.5	90.00	4,251.3	1,515.3	1,288.6	1,141.7	146.91	8.771		
11,600.0	7,162.0	11,790.5	7,161.0	79.0	83.1	90.00	4,349.1	1,515.3	1,309.6	1,162.3	147.22	8.895		
11,700.0	7,162.0	11,887.0	7,161.0	80.7	84.7	90.00	4,445.6	1,515.3	1,335.7	1,188.6	147.09	9.081		
11,747.9	7,162.0	11,932.7	7,161.0	81.4	85.5	90.00	4,491.2	1,515.3	1,350.0	1,203.1	146.87	9.192		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WELL														Offset Site Error:	0.0 ft
Survey Program: 7877-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	5.18	1,302.0	118.0	1,308.8						
100.0	100.0	37.0	37.0	0.1	0.1	5.18	1,302.0	118.0	1,307.3	1,307.1	0.19	6,992.880			
200.0	200.0	137.0	137.0	0.3	0.2	5.18	1,302.0	118.0	1,307.3	1,306.8	0.54	2,438.963			
300.0	300.0	237.0	237.0	0.5	0.4	5.18	1,302.0	118.0	1,307.3	1,306.4	0.89	1,477.065			
400.0	400.0	337.0	337.0	0.6	0.6	5.18	1,302.0	118.0	1,307.3	1,306.1	1.23	1,059.293			
500.0	500.0	437.0	437.0	0.8	0.8	-135.42	1,302.0	118.0	1,307.9	1,306.4	1.58	826.033			
600.0	600.0	537.0	537.0	1.0	0.9	-135.48	1,302.0	118.0	1,309.8	1,307.9	1.93	677.281			
700.0	699.9	636.9	636.9	1.2	1.1	-135.59	1,302.0	118.0	1,312.9	1,310.6	2.29	574.028			
800.0	799.7	736.7	736.7	1.4	1.3	-135.75	1,302.0	118.0	1,317.3	1,314.6	2.64	498.060			
853.0	852.6	789.6	789.6	1.5	1.4	-135.85	1,302.0	118.0	1,320.1	1,317.3	2.84	465.429			
900.0	899.4	836.4	836.4	1.6	1.5	-135.96	1,302.0	118.0	1,322.8	1,319.8	3.01	439.914			
1,000.0	999.1	936.1	936.1	1.8	1.6	-136.20	1,302.0	118.0	1,328.5	1,325.1	3.37	394.027			
1,100.0	1,098.8	1,035.8	1,035.8	2.0	1.8	-136.43	1,302.0	118.0	1,334.2	1,330.5	3.74	356.977			
1,200.0	1,198.4	1,135.4	1,135.4	2.2	2.0	-136.66	1,302.0	118.0	1,339.9	1,335.8	4.10	326.474			
1,300.0	1,298.1	1,235.1	1,235.1	2.4	2.2	-136.89	1,302.0	118.0	1,345.7	1,341.2	4.47	300.943			
1,400.0	1,397.8	1,334.8	1,334.8	2.6	2.3	-137.12	1,302.0	118.0	1,351.5	1,346.7	4.84	279.274			
1,500.0	1,497.5	1,434.5	1,434.5	2.9	2.5	-137.35	1,302.0	118.0	1,357.3	1,352.1	5.21	260.660			
1,600.0	1,597.2	1,534.2	1,534.2	3.1	2.7	-137.57	1,302.0	118.0	1,363.1	1,357.6	5.58	244.504			
1,700.0	1,696.9	1,633.9	1,633.9	3.3	2.9	-137.80	1,302.0	118.0	1,369.0	1,363.0	5.94	230.351			
1,800.0	1,796.6	1,733.6	1,733.6	3.5	3.0	-138.02	1,302.0	118.0	1,374.9	1,368.5	6.31	217.854			
1,900.0	1,896.3	1,833.3	1,833.3	3.7	3.2	-138.24	1,302.0	118.0	1,380.7	1,374.1	6.68	206.740			
2,000.0	1,995.9	1,932.9	1,932.9	4.0	3.4	-138.45	1,302.0	118.0	1,386.7	1,379.6	7.05	196.794			
2,100.0	2,095.6	2,032.6	2,032.6	4.2	3.5	-138.67	1,302.0	118.0	1,392.6	1,385.2	7.41	187.840			
2,200.0	2,195.3	2,132.3	2,132.3	4.4	3.7	-138.88	1,302.0	118.0	1,398.5	1,390.8	7.78	179.739			
2,300.0	2,295.0	2,232.0	2,232.0	4.6	3.9	-139.09	1,302.0	118.0	1,404.5	1,396.4	8.15	172.376			
2,400.0	2,394.7	2,331.7	2,331.7	4.8	4.1	-139.30	1,302.0	118.0	1,410.5	1,402.0	8.51	165.653			
2,500.0	2,494.4	2,431.4	2,431.4	5.1	4.2	-139.51	1,302.0	118.0	1,416.5	1,407.6	8.88	159.492			
2,600.0	2,594.1	2,531.1	2,531.1	5.3	4.4	-139.72	1,302.0	118.0	1,422.5	1,413.3	9.25	153.826			
2,700.0	2,693.8	2,630.8	2,630.8	5.5	4.6	-139.92	1,302.0	118.0	1,428.6	1,418.9	9.61	148.597			
2,800.0	2,793.4	2,730.4	2,730.4	5.7	4.8	-140.13	1,302.0	118.0	1,434.6	1,424.6	9.98	143.757			
2,900.0	2,893.1	2,830.1	2,830.1	5.9	4.9	-140.33	1,302.0	118.0	1,440.7	1,430.4	10.35	139.264			
3,000.0	2,992.8	2,929.8	2,929.8	6.2	5.1	-140.53	1,302.0	118.0	1,446.8	1,436.1	10.71	135.083			
3,100.0	3,092.5	3,029.5	3,029.5	6.4	5.3	-140.72	1,302.0	118.0	1,452.9	1,441.8	11.08	131.182			
3,200.0	3,192.2	3,129.2	3,129.2	6.6	5.5	-140.92	1,302.0	118.0	1,459.0	1,447.6	11.44	127.535			
3,300.0	3,291.9	3,228.9	3,228.9	6.8	5.6	-141.11	1,302.0	118.0	1,465.2	1,453.4	11.80	124.117			
3,400.0	3,391.6	3,328.6	3,328.6	7.1	5.8	-141.31	1,302.0	118.0	1,471.4	1,459.2	12.17	120.908			
3,500.0	3,491.3	3,428.3	3,428.3	7.3	6.0	-141.50	1,302.0	118.0	1,477.5	1,465.0	12.53	117.889			
3,600.0	3,590.9	3,527.9	3,527.9	7.5	6.2	-141.69	1,302.0	118.0	1,483.7	1,470.8	12.90	115.044			
3,700.0	3,690.6	3,627.6	3,627.6	7.7	6.3	-141.88	1,302.0	118.0	1,489.9	1,476.7	13.26	112.359			
3,800.0	3,790.3	3,727.3	3,727.3	7.9	6.5	-142.06	1,302.0	118.0	1,496.2	1,482.6	13.62	109.820			
3,900.0	3,890.0	3,827.0	3,827.0	8.2	6.7	-142.25	1,302.0	118.0	1,502.4	1,488.4	13.99	107.416			
4,000.0	3,989.7	3,926.7	3,926.7	8.4	6.9	-142.43	1,302.0	118.0	1,508.7	1,494.3	14.35	105.136			
4,100.0	4,089.4	4,026.4	4,026.4	8.6	7.0	-142.61	1,302.0	118.0	1,515.0	1,500.2	14.71	102.972			
4,200.0	4,189.1	4,126.1	4,126.1	8.8	7.2	-142.79	1,302.0	118.0	1,521.2	1,506.2	15.07	100.914			
4,300.0	4,288.8	4,225.8	4,225.8	9.1	7.4	-142.97	1,302.0	118.0	1,527.6	1,512.1	15.44	98.955			
4,400.0	4,388.4	4,325.4	4,325.4	9.3	7.5	-143.15	1,302.0	118.0	1,533.9	1,518.1	15.80	97.089			
4,500.0	4,488.1	4,425.1	4,425.1	9.5	7.7	-143.33	1,302.0	118.0	1,540.2	1,524.0	16.16	95.308			
4,600.0	4,587.8	4,524.8	4,524.8	9.7	7.9	-143.50	1,302.0	118.0	1,546.6	1,530.0	16.52	93.608			
6,900.0	6,871.4	6,808.4	6,808.4	13.4	11.9	-6.00	1,302.0	118.0	1,549.0	1,526.7	22.27	69.567			
6,950.0	6,913.8	6,850.8	6,850.8	13.4	12.0	-6.44	1,302.0	118.0	1,522.6	1,500.9	21.68	70.225			
7,000.0	6,953.7	6,890.7	6,890.7	13.3	12.0	-7.01	1,302.0	118.0	1,492.6	1,471.6	21.02	71.002			
7,050.0	6,990.8	6,927.8	6,927.8	13.3	12.1	-7.75	1,302.0	118.0	1,459.3	1,439.0	20.31	71.854			

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 7877-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		
7,100.0	7,024.9	6,961.9	6,961.9	13.2	12.2	-8.72	1,302.0	118.0	1,422.9	1,403.3	19.57	72.707		
7,150.0	7,055.7	6,992.7	6,992.7	13.3	12.2	-10.01	1,302.0	118.0	1,383.7	1,364.8	18.84	73.432		
7,200.0	7,082.9	7,019.9	7,019.9	13.3	12.3	-11.77	1,302.0	118.0	1,342.0	1,323.8	18.18	73.815		
7,250.0	7,106.3	7,043.3	7,043.3	13.4	12.3	-14.26	1,302.0	118.0	1,298.1	1,280.4	17.66	73.499		
7,300.0	7,125.8	7,062.8	7,062.8	13.5	12.3	-17.95	1,302.0	118.0	1,252.3	1,234.9	17.42	71.878		
7,350.0	7,141.2	7,078.2	7,078.2	13.7	12.4	-23.83	1,302.0	118.0	1,205.1	1,187.3	17.74	67.946		
7,400.0	7,152.4	7,089.4	7,089.4	14.0	12.4	-34.06	1,302.0	118.0	1,156.7	1,137.5	19.18	60.322		
7,450.0	7,159.4	7,096.4	7,096.4	14.3	12.4	-53.42	1,302.0	118.0	1,107.6	1,085.0	22.63	48.943		
7,504.7	7,162.0	7,099.0	7,099.0	14.7	12.4	-90.00	1,302.0	118.0	1,053.5	1,027.2	26.33	40.004		
7,600.0	7,162.0	7,099.0	7,099.0	15.4	12.4	-90.00	1,302.0	118.0	959.1	931.9	27.15	35.320		
7,700.0	7,162.0	7,099.0	7,099.0	16.4	12.4	-90.00	1,302.0	118.0	860.3	832.1	28.16	30.551		
7,800.0	7,162.0	7,099.0	7,099.0	17.5	12.4	-90.00	1,302.0	118.0	761.8	732.5	29.29	26.012		
7,900.0	7,162.0	7,099.0	7,099.0	18.7	12.4	-90.00	1,302.0	118.0	663.8	633.3	30.52	21.753		
8,000.0	7,162.0	7,099.0	7,099.0	20.0	12.4	-90.00	1,302.0	118.0	566.5	534.7	31.82	17.801		
8,100.0	7,162.0	7,099.0	7,099.0	21.3	12.4	-90.00	1,302.0	118.0	470.3	437.1	33.20	14.166		
8,200.0	7,162.0	7,099.0	7,099.0	22.7	12.4	-90.00	1,302.0	118.0	376.1	341.5	34.63	10.862		
8,300.0	7,162.0	7,099.0	7,099.0	24.1	12.4	-90.00	1,302.0	118.0	285.9	249.8	36.10	7.919		
8,400.0	7,162.0	7,099.0	7,099.0	25.6	12.4	-90.00	1,302.0	118.0	204.9	167.3	37.61	5.448		
8,500.0	7,162.0	7,099.0	7,099.0	27.1	12.4	-90.00	1,302.0	118.0	149.2	110.0	39.14	3.810		
8,548.7	7,162.0	7,099.0	7,099.0	27.9	12.4	-90.00	1,302.0	118.0	141.0	101.1	39.91	3.533 CC, ES, SF		
8,600.0	7,162.0	7,099.0	7,099.0	28.7	12.4	-90.00	1,302.0	118.0	150.0	109.3	40.71	3.686		
8,700.0	7,162.0	7,099.0	7,099.0	30.2	12.4	-90.00	1,302.0	118.0	206.8	164.5	42.29	4.890		
8,800.0	7,162.0	7,099.0	7,099.0	31.8	12.4	-90.00	1,302.0	118.0	288.2	244.3	43.89	6.565		
8,900.0	7,162.0	7,099.0	7,099.0	33.4	12.4	-90.00	1,302.0	118.0	378.6	333.0	45.51	8.318		
9,000.0	7,162.0	7,099.0	7,099.0	35.0	12.4	-90.00	1,302.0	118.0	472.8	425.7	47.14	10.030		
9,100.0	7,162.0	7,099.0	7,099.0	36.7	12.4	-90.00	1,302.0	118.0	569.1	520.3	48.78	11.665		
9,200.0	7,162.0	7,099.0	7,099.0	38.3	12.4	-90.00	1,302.0	118.0	666.4	616.0	50.44	13.213		
9,300.0	7,162.0	7,099.0	7,099.0	40.0	12.4	-90.00	1,302.0	118.0	764.4	712.3	52.10	14.673		
9,400.0	7,162.0	7,099.0	7,099.0	41.6	12.4	-90.00	1,302.0	118.0	862.9	809.2	53.77	16.049		
9,500.0	7,162.0	7,099.0	7,099.0	43.3	12.4	-90.00	1,302.0	118.0	961.7	906.3	55.44	17.346		
9,600.0	7,162.0	7,099.0	7,099.0	45.0	12.4	-90.00	1,302.0	118.0	1,060.7	1,003.6	57.12	18.569		
9,700.0	7,162.0	7,099.0	7,099.0	46.6	12.4	-90.00	1,302.0	118.0	1,159.9	1,101.1	58.81	19.723		
9,800.0	7,162.0	7,099.0	7,099.0	48.3	12.4	-90.00	1,302.0	118.0	1,259.2	1,198.7	60.50	20.813		
9,900.0	7,162.0	7,099.0	7,099.0	50.0	12.4	-90.00	1,302.0	118.0	1,358.7	1,296.5	62.20	21.844		
10,000.0	7,162.0	7,099.0	7,099.0	51.7	12.4	-90.00	1,302.0	118.0	1,458.2	1,394.3	63.90	22.820		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - KELLER 20-2 (EXISTING) - EXISTING - NOBLE WELL													Offset Site Error:	0.0 ft
Survey Program: 7693-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,700.0	7,162.0	7,068.0	7,068.0	46.6	12.3	-90.00	3,912.0	107.4	1,466.6	1,407.8	58.76	24.961		
9,800.0	7,162.0	7,068.0	7,068.0	48.3	12.3	-90.00	3,912.0	107.4	1,367.2	1,306.7	60.45	22.617		
9,900.0	7,162.0	7,068.0	7,068.0	50.0	12.3	-90.00	3,912.0	107.4	1,267.8	1,205.7	62.14	20.402		
10,000.0	7,162.0	7,068.0	7,068.0	51.7	12.3	-90.00	3,912.0	107.4	1,168.6	1,104.8	63.84	18.304		
10,100.0	7,162.0	7,068.0	7,068.0	53.4	12.3	-90.00	3,912.0	107.4	1,069.5	1,004.0	65.55	16.317		
10,200.0	7,162.0	7,068.0	7,068.0	55.1	12.3	-90.00	3,912.0	107.4	970.7	903.4	67.25	14.433		
10,300.0	7,162.0	7,068.0	7,068.0	56.8	12.3	-90.00	3,912.0	107.4	872.0	803.1	68.96	12.645		
10,400.0	7,162.0	7,068.0	7,068.0	58.5	12.3	-90.00	3,912.0	107.4	773.7	703.1	70.68	10.948		
10,500.0	7,162.0	7,068.0	7,068.0	60.2	12.3	-90.00	3,912.0	107.4	676.0	603.6	72.39	9.338		
10,600.0	7,162.0	7,068.0	7,068.0	61.9	12.3	-90.00	3,912.0	107.4	579.0	504.8	74.11	7.812		
10,700.0	7,162.0	7,068.0	7,068.0	63.7	12.3	-90.00	3,912.0	107.4	483.2	407.3	75.83	6.372		
10,800.0	7,162.0	7,068.0	7,068.0	65.4	12.3	-90.00	3,912.0	107.4	389.5	311.9	77.55	5.022		
10,900.0	7,162.0	7,068.0	7,068.0	67.1	12.3	-90.00	3,912.0	107.4	299.9	220.6	79.27	3.783		
11,000.0	7,162.0	7,068.0	7,068.0	68.8	12.3	-90.00	3,912.0	107.4	219.5	138.5	80.99	2.710		
11,100.0	7,162.0	7,068.0	7,068.0	70.5	12.3	-90.00	3,912.0	107.4	162.6	79.9	82.72	1.966		
11,150.0	7,162.0	7,068.0	7,068.0	71.4	12.3	-90.00	3,912.0	107.4	151.9	68.3	83.58	1.817		
11,159.5	7,162.0	7,068.0	7,068.0	71.6	12.3	-90.00	3,912.0	107.4	151.6	67.9	83.72	1.811 CC, ES, SF		
11,200.0	7,162.0	7,068.0	7,068.0	72.2	12.3	-90.00	3,912.0	107.4	156.5	72.2	84.31	1.856		
11,300.0	7,162.0	7,068.0	7,068.0	74.0	12.3	-90.00	3,912.0	107.4	202.8	117.2	85.61	2.369		
11,400.0	7,162.0	7,068.0	7,068.0	75.7	12.3	-90.00	3,912.0	107.4	275.9	189.1	86.74	3.181		
11,500.0	7,162.0	7,068.0	7,068.0	77.3	12.3	-90.01	3,912.0	107.4	359.6	272.0	87.66	4.102		
11,600.0	7,162.0	7,068.0	7,068.0	79.0	12.3	-90.01	3,912.0	107.4	447.9	359.5	88.40	5.067		
11,700.0	7,162.0	7,068.0	7,068.0	80.7	12.3	-90.02	3,912.0	107.4	538.4	449.4	88.95	6.053		
11,747.9	7,162.0	7,068.0	7,068.0	81.4	12.3	-90.02	3,912.0	107.4	582.1	493.0	89.14	6.530		

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 Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 S20-T2N-R64W (Dale) - RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL													Offset Site Error:	0.0 ft
Survey Program: 7638-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		
7,504.7	7,162.0	7,093.0	7,093.0	14.7	12.4	-90.00	1,675.0	-237.4	1,501.5	1,475.2	26.32	57.038		
7,600.0	7,162.0	7,093.0	7,093.0	15.4	12.4	-90.00	1,675.0	-237.4	1,411.9	1,384.7	27.14	52.013		
7,700.0	7,162.0	7,093.0	7,093.0	16.4	12.4	-90.00	1,675.0	-237.4	1,318.7	1,290.6	28.15	46.846		
7,800.0	7,162.0	7,093.0	7,093.0	17.5	12.4	-90.00	1,675.0	-237.4	1,226.6	1,197.4	29.28	41.897		
7,900.0	7,162.0	7,093.0	7,093.0	18.7	12.4	-90.00	1,675.0	-237.4	1,135.9	1,105.4	30.51	37.237		
8,000.0	7,162.0	7,093.0	7,093.0	20.0	12.4	-90.00	1,675.0	-237.4	1,046.9	1,015.1	31.81	32.906		
8,100.0	7,162.0	7,093.0	7,093.0	21.3	12.4	-90.00	1,675.0	-237.4	960.0	926.8	33.19	28.926		
8,200.0	7,162.0	7,093.0	7,093.0	22.7	12.4	-90.00	1,675.0	-237.4	876.0	841.3	34.62	25.304		
8,300.0	7,162.0	7,093.0	7,093.0	24.1	12.4	-90.00	1,675.0	-237.4	795.6	759.5	36.09	22.045		
8,400.0	7,162.0	7,093.0	7,093.0	25.6	12.4	-90.00	1,675.0	-237.4	720.1	682.5	37.60	19.155		
8,500.0	7,162.0	7,093.0	7,093.0	27.1	12.4	-90.00	1,675.0	-237.4	651.4	612.2	39.13	16.644		
8,600.0	7,162.0	7,093.0	7,093.0	28.7	12.4	-90.00	1,675.0	-237.4	591.5	550.9	40.70	14.535		
8,700.0	7,162.0	7,093.0	7,093.0	30.2	12.4	-90.00	1,675.0	-237.4	543.7	501.4	42.28	12.859		
8,800.0	7,162.0	7,093.0	7,093.0	31.8	12.4	-90.00	1,675.0	-237.4	511.1	467.2	43.88	11.647		
8,900.0	7,162.0	7,093.0	7,093.0	33.4	12.4	-90.00	1,675.0	-237.4	496.9	451.4	45.50	10.921		
8,921.7	7,162.0	7,093.0	7,093.0	33.8	12.4	-90.00	1,675.0	-237.4	496.4	450.6	45.85	10.826 CC, ES		
9,000.0	7,162.0	7,093.0	7,093.0	35.0	12.4	-90.00	1,675.0	-237.4	502.6	455.4	47.13	10.663 SF		
9,100.0	7,162.0	7,093.0	7,093.0	36.7	12.4	-90.00	1,675.0	-237.4	527.5	478.7	48.77	10.815		
9,200.0	7,162.0	7,093.0	7,093.0	38.3	12.4	-90.00	1,675.0	-237.4	569.1	518.7	50.43	11.286		
9,300.0	7,162.0	7,093.0	7,093.0	40.0	12.4	-90.00	1,675.0	-237.4	624.1	572.0	52.09	11.983		
9,400.0	7,162.0	7,093.0	7,093.0	41.6	12.4	-90.00	1,675.0	-237.4	689.4	635.6	53.76	12.824		
9,500.0	7,162.0	7,093.0	7,093.0	43.3	12.4	-90.00	1,675.0	-237.4	762.1	706.7	55.43	13.749		
9,600.0	7,162.0	7,093.0	7,093.0	45.0	12.4	-90.00	1,675.0	-237.4	840.6	783.4	57.11	14.717		
9,700.0	7,162.0	7,093.0	7,093.0	46.6	12.4	-90.00	1,675.0	-237.4	923.1	864.3	58.80	15.700		
9,800.0	7,162.0	7,093.0	7,093.0	48.3	12.4	-90.00	1,675.0	-237.4	1,008.9	948.4	60.49	16.678		
9,900.0	7,162.0	7,093.0	7,093.0	50.0	12.4	-90.00	1,675.0	-237.4	1,097.0	1,034.9	62.19	17.641		
10,000.0	7,162.0	7,093.0	7,093.0	51.7	12.4	-90.00	1,675.0	-237.4	1,187.1	1,123.2	63.89	18.581		
10,100.0	7,162.0	7,093.0	7,093.0	53.4	12.4	-90.00	1,675.0	-237.4	1,278.6	1,213.0	65.59	19.494		
10,200.0	7,162.0	7,093.0	7,093.0	55.1	12.4	-90.00	1,675.0	-237.4	1,371.3	1,304.0	67.30	20.377		
10,300.0	7,162.0	7,093.0	7,093.0	56.8	12.4	-90.00	1,675.0	-237.4	1,465.0	1,396.0	69.01	21.229		

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

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4E-20H-O264
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Reference Site:</b>	S20-T2N-R64W (Dale)	<b>MD Reference:</b>	WELL @ 4988.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Dale 4E-20H-O264	<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 @ 4988.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Dale 4E-20H-O264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

