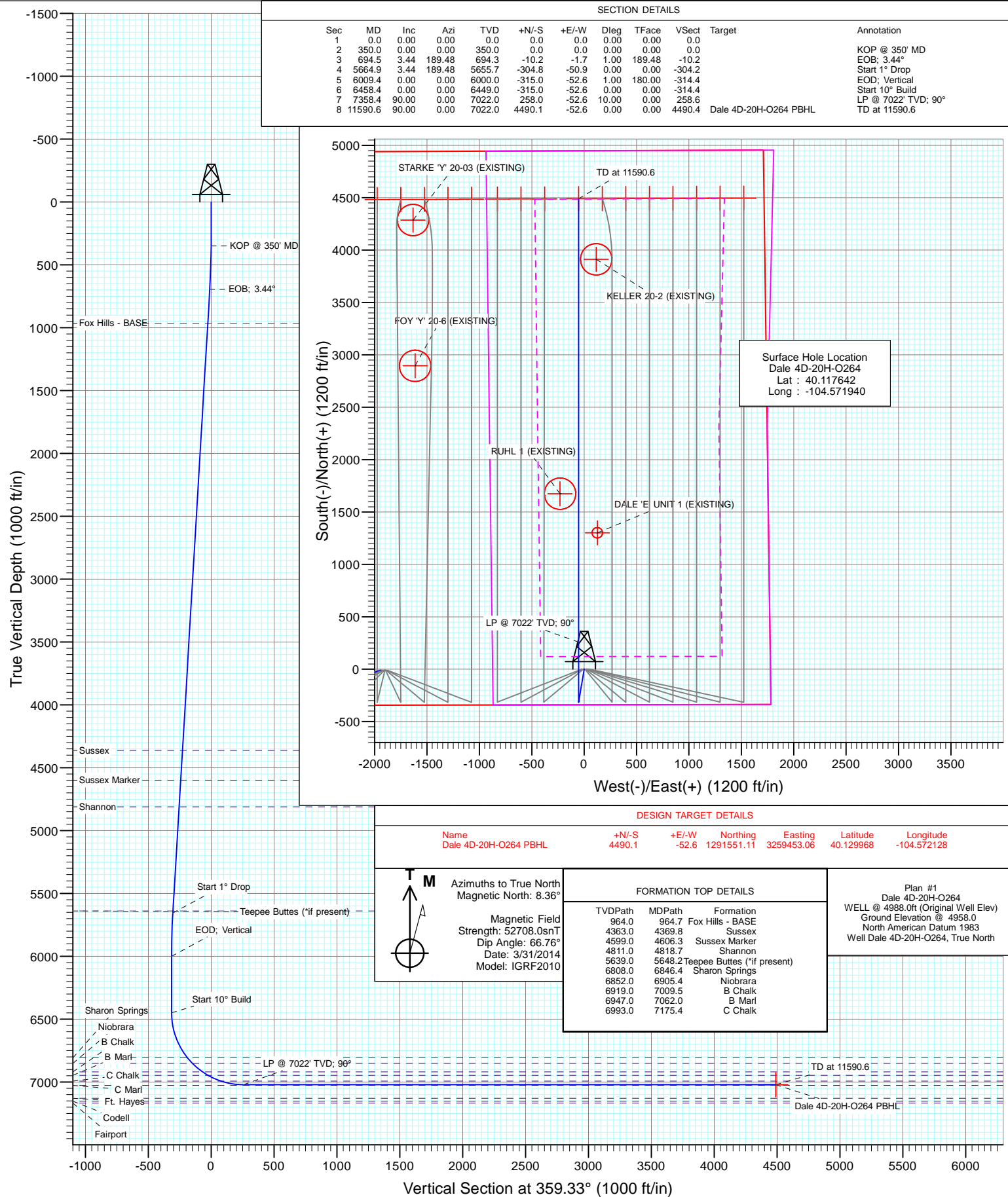




Project: DJ Wattenberg  
Site: S20-T2N-R64W (Dale)  
Well: Dale 4D-20H-O264  
Wellbore: HZ  
Design: Plan #1





## 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 4D-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4D-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:**  
**From:** Lat/Long  
**Position Uncertainty:** 0.0 ft  
**Northing:** 1,287,029.38 ft  
**Easting:** 3,257,598.23 ft  
**Slot Radius:** 13.200 in  
**Latitude:** 40.117609  
**Longitude:** -104.578929  
**Grid Convergence:** 0.60 °

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

**Well Position** **+N/-S** 0.0 ft **Northing:** 1,287,061.78 ft **Latitude:** 40.117642  
**+E/-W** 0.0 ft **Easting:** 3,259,552.62 ft **Longitude:** -104.571940  
**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	359.33

### 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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.00	0.00	
694.5	3.44	189.48	694.3	-10.2	-1.7	1.00	1.00	0.00	189.48	
5,664.9	3.44	189.48	5,655.7	-304.8	-50.9	0.00	0.00	0.00	0.00	
6,009.4	0.00	0.00	6,000.0	-315.0	-52.6	1.00	-1.00	0.00	180.00	
6,458.4	0.00	0.00	6,449.0	-315.0	-52.6	0.00	0.00	0.00	0.00	
7,358.4	90.00	0.00	7,022.0	258.0	-52.6	10.00	10.00	0.00	0.00	
11,590.6	90.00	0.00	7,022.0	4,490.1	-52.6	0.00	0.00	0.00	0.00	Dale 4D-20H-O264 P



## 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 4D-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4D-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	
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	KOP @ 350' MD
400.0	0.50	189.48	400.0	-0.2	0.0	-0.2	1.00	1.00	
500.0	1.50	189.48	500.0	-1.9	-0.3	-1.9	1.00	1.00	
600.0	2.50	189.48	599.9	-5.4	-0.9	-5.4	1.00	1.00	
694.5	3.44	189.48	694.3	-10.2	-1.7	-10.2	1.00	1.00	EOB; 3.44°
700.0	3.44	189.48	699.8	-10.5	-1.8	-10.5	0.00	0.00	
800.0	3.44	189.48	799.6	-16.5	-2.7	-16.4	0.00	0.00	
900.0	3.44	189.48	899.4	-22.4	-3.7	-22.3	0.00	0.00	
964.7	3.44	189.48	964.0	-26.2	-4.4	-26.2	0.00	0.00	Fox Hills - BASE
1,000.0	3.44	189.48	999.2	-28.3	-4.7	-28.3	0.00	0.00	
1,100.0	3.44	189.48	1,099.1	-34.2	-5.7	-34.2	0.00	0.00	
1,200.0	3.44	189.48	1,198.9	-40.2	-6.7	-40.1	0.00	0.00	
1,300.0	3.44	189.48	1,298.7	-46.1	-7.7	-46.0	0.00	0.00	
1,400.0	3.44	189.48	1,398.5	-52.0	-8.7	-51.9	0.00	0.00	
1,500.0	3.44	189.48	1,498.3	-58.0	-9.7	-57.8	0.00	0.00	
1,600.0	3.44	189.48	1,598.2	-63.9	-10.7	-63.7	0.00	0.00	
1,700.0	3.44	189.48	1,698.0	-69.8	-11.7	-69.7	0.00	0.00	
1,800.0	3.44	189.48	1,797.8	-75.7	-12.6	-75.6	0.00	0.00	
1,900.0	3.44	189.48	1,897.6	-81.7	-13.6	-81.5	0.00	0.00	
2,000.0	3.44	189.48	1,997.4	-87.6	-14.6	-87.4	0.00	0.00	
2,100.0	3.44	189.48	2,097.3	-93.5	-15.6	-93.3	0.00	0.00	
2,200.0	3.44	189.48	2,197.1	-99.4	-16.6	-99.2	0.00	0.00	
2,300.0	3.44	189.48	2,296.9	-105.4	-17.6	-105.2	0.00	0.00	
2,400.0	3.44	189.48	2,396.7	-111.3	-18.6	-111.1	0.00	0.00	
2,500.0	3.44	189.48	2,496.5	-117.2	-19.6	-117.0	0.00	0.00	
2,600.0	3.44	189.48	2,596.3	-123.1	-20.6	-122.9	0.00	0.00	
2,700.0	3.44	189.48	2,696.2	-129.1	-21.6	-128.8	0.00	0.00	
2,800.0	3.44	189.48	2,796.0	-135.0	-22.5	-134.7	0.00	0.00	
2,900.0	3.44	189.48	2,895.8	-140.9	-23.5	-140.6	0.00	0.00	
3,000.0	3.44	189.48	2,995.6	-146.9	-24.5	-146.6	0.00	0.00	
3,100.0	3.44	189.48	3,095.4	-152.8	-25.5	-152.5	0.00	0.00	
3,200.0	3.44	189.48	3,195.3	-158.7	-26.5	-158.4	0.00	0.00	
3,300.0	3.44	189.48	3,295.1	-164.6	-27.5	-164.3	0.00	0.00	
3,400.0	3.44	189.48	3,394.9	-170.6	-28.5	-170.2	0.00	0.00	
3,500.0	3.44	189.48	3,494.7	-176.5	-29.5	-176.1	0.00	0.00	
3,600.0	3.44	189.48	3,594.5	-182.4	-30.5	-182.0	0.00	0.00	
3,700.0	3.44	189.48	3,694.4	-188.3	-31.4	-188.0	0.00	0.00	
3,800.0	3.44	189.48	3,794.2	-194.3	-32.4	-193.9	0.00	0.00	
3,900.0	3.44	189.48	3,894.0	-200.2	-33.4	-199.8	0.00	0.00	
4,000.0	3.44	189.48	3,993.8	-206.1	-34.4	-205.7	0.00	0.00	
4,100.0	3.44	189.48	4,093.6	-212.0	-35.4	-211.6	0.00	0.00	
4,200.0	3.44	189.48	4,193.5	-218.0	-36.4	-217.5	0.00	0.00	
4,300.0	3.44	189.48	4,293.3	-223.9	-37.4	-223.4	0.00	0.00	
4,369.8	3.44	189.48	4,363.0	-228.0	-38.1	-227.6	0.00	0.00	Sussex
4,400.0	3.44	189.48	4,393.1	-229.8	-38.4	-229.4	0.00	0.00	
4,500.0	3.44	189.48	4,492.9	-235.7	-39.4	-235.3	0.00	0.00	
4,600.0	3.44	189.48	4,592.7	-241.7	-40.4	-241.2	0.00	0.00	
4,606.3	3.44	189.48	4,599.0	-242.0	-40.4	-241.6	0.00	0.00	Sussex Marker



## 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 4D-20H-O264  
**Wellbore:** HZ  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Dale 4D-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
4,700.0	3.44	189.48	4,692.6	-247.6	-41.3	-247.1	0.00	0.00	
4,800.0	3.44	189.48	4,792.4	-253.5	-42.3	-253.0	0.00	0.00	
4,818.7	3.44	189.48	4,811.0	-254.6	-42.5	-254.1	0.00	0.00	Shannon
4,900.0	3.44	189.48	4,892.2	-259.5	-43.3	-258.9	0.00	0.00	
5,000.0	3.44	189.48	4,992.0	-265.4	-44.3	-264.8	0.00	0.00	
5,100.0	3.44	189.48	5,091.8	-271.3	-45.3	-270.8	0.00	0.00	
5,200.0	3.44	189.48	5,191.7	-277.2	-46.3	-276.7	0.00	0.00	
5,300.0	3.44	189.48	5,291.5	-283.2	-47.3	-282.6	0.00	0.00	
5,400.0	3.44	189.48	5,391.3	-289.1	-48.3	-288.5	0.00	0.00	
5,500.0	3.44	189.48	5,491.1	-295.0	-49.3	-294.4	0.00	0.00	
5,600.0	3.44	189.48	5,590.9	-300.9	-50.3	-300.3	0.00	0.00	
5,648.2	3.44	189.48	5,639.0	-303.8	-50.7	-303.2	0.00	0.00	Teepee Buttes (*if present)
5,664.9	3.44	189.48	5,655.7	-304.8	-50.9	-304.2	0.00	0.00	Start 1° Drop
5,700.0	3.09	189.48	5,690.8	-306.8	-51.2	-306.1	1.00	-1.00	
5,800.0	2.09	189.48	5,790.7	-311.2	-52.0	-310.6	1.00	-1.00	
5,900.0	1.09	189.48	5,890.6	-314.0	-52.4	-313.3	1.00	-1.00	
6,009.4	0.00	0.00	6,000.0	-315.0	-52.6	-314.4	1.00	-1.00	EOD; Vertical
6,100.0	0.00	0.00	6,090.6	-315.0	-52.6	-314.4	0.00	0.00	
6,200.0	0.00	0.00	6,190.6	-315.0	-52.6	-314.4	0.00	0.00	
6,300.0	0.00	0.00	6,290.6	-315.0	-52.6	-314.4	0.00	0.00	
6,400.0	0.00	0.00	6,390.6	-315.0	-52.6	-314.4	0.00	0.00	
6,458.4	0.00	0.00	6,449.0	-315.0	-52.6	-314.4	0.00	0.00	Start 10° Build
6,500.0	4.16	0.00	6,490.6	-313.5	-52.6	-312.9	10.00	10.00	
6,550.0	9.16	0.00	6,540.2	-307.7	-52.6	-307.1	10.00	10.00	
6,600.0	14.16	0.00	6,589.2	-297.6	-52.6	-297.0	10.00	10.00	
6,650.0	19.16	0.00	6,637.1	-283.3	-52.6	-282.6	10.00	10.00	
6,700.0	24.16	0.00	6,683.5	-264.8	-52.6	-264.2	10.00	10.00	
6,750.0	29.16	0.00	6,728.2	-242.4	-52.6	-241.8	10.00	10.00	
6,800.0	34.16	0.00	6,770.7	-216.2	-52.6	-215.5	10.00	10.00	
6,846.4	38.79	0.00	6,808.0	-188.6	-52.6	-188.0	10.00	10.00	Sharon Springs
6,850.0	39.16	0.00	6,810.8	-186.3	-52.6	-185.7	10.00	10.00	
6,900.0	44.16	0.00	6,848.2	-153.1	-52.6	-152.5	10.00	10.00	
6,905.4	44.69	0.00	6,852.0	-149.4	-52.6	-148.7	10.00	10.00	Niobrara
6,950.0	49.16	0.00	6,882.5	-116.8	-52.6	-116.1	10.00	10.00	
7,000.0	54.16	0.00	6,913.5	-77.6	-52.6	-76.9	10.00	10.00	
7,009.5	55.11	0.00	6,919.0	-69.8	-52.6	-69.2	10.00	10.00	B Chalk
7,050.0	59.16	0.00	6,941.0	-35.8	-52.6	-35.2	10.00	10.00	
7,062.0	60.35	0.00	6,947.0	-25.4	-52.6	-24.8	10.00	10.00	B Marl
7,100.0	64.16	0.00	6,964.7	8.2	-52.6	8.8	10.00	10.00	
7,150.0	69.16	0.00	6,984.5	54.1	-52.6	54.7	10.00	10.00	
7,175.4	71.69	0.00	6,993.0	78.0	-52.6	78.6	10.00	10.00	C Chalk
7,200.0	74.16	0.00	7,000.2	101.5	-52.6	102.1	10.00	10.00	
7,250.0	79.16	0.00	7,011.8	150.2	-52.6	150.8	10.00	10.00	
7,300.0	84.16	0.00	7,019.0	199.6	-52.6	200.2	10.00	10.00	
7,350.0	89.16	0.00	7,021.9	249.5	-52.6	250.1	10.00	10.00	
7,358.4	90.00	0.00	7,022.0	258.0	-52.6	258.6	10.00	10.00	LP @ 7022' TVD; 90°
7,400.0	90.00	0.00	7,022.0	299.5	-52.6	300.1	0.00	0.00	
7,500.0	90.00	0.00	7,022.0	399.5	-52.6	400.1	0.00	0.00	
7,600.0	90.00	0.00	7,022.0	499.5	-52.6	500.1	0.00	0.00	
7,700.0	90.00	0.00	7,022.0	599.5	-52.6	600.1	0.00	0.00	
7,800.0	90.00	0.00	7,022.0	699.5	-52.6	700.1	0.00	0.00	
7,900.0	90.00	0.00	7,022.0	799.5	-52.6	800.1	0.00	0.00	



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-20H-O264	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	HZ		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,000.0	90.00	0.00	7,022.0	899.5	-52.6	900.1	0.00	0.00	
8,100.0	90.00	0.00	7,022.0	999.5	-52.6	1,000.1	0.00	0.00	
8,200.0	90.00	0.00	7,022.0	1,099.5	-52.6	1,100.1	0.00	0.00	
8,300.0	90.00	0.00	7,022.0	1,199.5	-52.6	1,200.1	0.00	0.00	
8,400.0	90.00	0.00	7,022.0	1,299.5	-52.6	1,300.0	0.00	0.00	
8,500.0	90.00	0.00	7,022.0	1,399.5	-52.6	1,400.0	0.00	0.00	
8,600.0	90.00	0.00	7,022.0	1,499.5	-52.6	1,500.0	0.00	0.00	
8,700.0	90.00	0.00	7,022.0	1,599.5	-52.6	1,600.0	0.00	0.00	
8,800.0	90.00	0.00	7,022.0	1,699.5	-52.6	1,700.0	0.00	0.00	
8,900.0	90.00	0.00	7,022.0	1,799.5	-52.6	1,800.0	0.00	0.00	
9,000.0	90.00	0.00	7,022.0	1,899.5	-52.6	1,900.0	0.00	0.00	
9,100.0	90.00	0.00	7,022.0	1,999.5	-52.6	2,000.0	0.00	0.00	
9,200.0	90.00	0.00	7,022.0	2,099.5	-52.6	2,100.0	0.00	0.00	
9,300.0	90.00	0.00	7,022.0	2,199.5	-52.6	2,200.0	0.00	0.00	
9,400.0	90.00	0.00	7,022.0	2,299.5	-52.6	2,300.0	0.00	0.00	
9,500.0	90.00	0.00	7,022.0	2,399.5	-52.6	2,400.0	0.00	0.00	
9,600.0	90.00	0.00	7,022.0	2,499.5	-52.6	2,500.0	0.00	0.00	
9,700.0	90.00	0.00	7,022.0	2,599.5	-52.6	2,600.0	0.00	0.00	
9,800.0	90.00	0.00	7,022.0	2,699.5	-52.6	2,700.0	0.00	0.00	
9,900.0	90.00	0.00	7,022.0	2,799.5	-52.6	2,799.9	0.00	0.00	
10,000.0	90.00	0.00	7,022.0	2,899.5	-52.6	2,899.9	0.00	0.00	
10,100.0	90.00	0.00	7,022.0	2,999.5	-52.6	2,999.9	0.00	0.00	
10,200.0	90.00	0.00	7,022.0	3,099.5	-52.6	3,099.9	0.00	0.00	
10,300.0	90.00	0.00	7,022.0	3,199.5	-52.6	3,199.9	0.00	0.00	
10,400.0	90.00	0.00	7,022.0	3,299.5	-52.6	3,299.9	0.00	0.00	
10,500.0	90.00	0.00	7,022.0	3,399.5	-52.6	3,399.9	0.00	0.00	
10,600.0	90.00	0.00	7,022.0	3,499.5	-52.6	3,499.9	0.00	0.00	
10,700.0	90.00	0.00	7,022.0	3,599.5	-52.6	3,599.9	0.00	0.00	
10,800.0	90.00	0.00	7,022.0	3,699.5	-52.6	3,699.9	0.00	0.00	
10,900.0	90.00	0.00	7,022.0	3,799.5	-52.6	3,799.9	0.00	0.00	
11,000.0	90.00	0.00	7,022.0	3,899.5	-52.6	3,899.9	0.00	0.00	
11,100.0	90.00	0.00	7,022.0	3,999.5	-52.6	3,999.9	0.00	0.00	
11,200.0	90.00	0.00	7,022.0	4,099.5	-52.6	4,099.9	0.00	0.00	
11,300.0	90.00	0.00	7,022.0	4,199.5	-52.6	4,199.8	0.00	0.00	
11,400.0	90.00	0.00	7,022.0	4,299.5	-52.6	4,299.8	0.00	0.00	
11,500.0	90.00	0.00	7,022.0	4,399.5	-52.6	4,399.8	0.00	0.00	
11,590.6	90.00	0.00	7,022.0	4,490.1	-52.6	4,490.4	0.00	0.00	TD at 11590.6

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 4D-20H-O264 PBH	0.00	0.00	7,022.0	4,490.1	-52.6	1,291,551.11	3,259,453.06	40.129968	-104.572128
- plan hits target center									
- Point									



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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 (°)
964.7	964.0	Fox Hills - BASE			
4,369.8	4,363.0	Sussex			
4,606.3	4,599.0	Sussex Marker			
4,818.7	4,811.0	Shannon			
5,648.2	5,639.0	Teepee Buttes (*if present)			
6,846.4	6,808.0	Sharon Springs			
6,905.4	6,852.0	Niobrara			
7,009.5	6,919.0	B Chalk			
7,062.0	6,947.0	B Marl			
7,175.4	6,993.0	C Chalk			

### Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
350.0	350.0	0.0	0.0	KOP @ 350' MD
694.5	694.3	-10.2	-1.7	EOB; 3.44°
5,664.9	5,655.7	-304.8	-50.9	Start 1° Drop
6,009.4	6,000.0	-315.0	-52.6	EOD; Vertical
6,458.4	6,449.0	-315.0	-52.6	Start 10° Build
7,358.4	7,022.0	258.0	-52.6	LP @ 7022' TVD; 90°
11,590.6	7,022.0	4,490.1	-52.6	TD at 11590.6



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

**DJ Wattenberg**

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

**Dale 4D-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 4D-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 4D-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	11,590.6	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 4D-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 4D-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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
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	11,061.4	11,088.5	1,396.5	1,251.9	9.659	CC
Dale 3J-20H-N264 - HZ - Plan #1	11,200.0	11,171.8	1,398.9	1,250.5	9.426	ES
Dale 3J-20H-N264 - HZ - Plan #1	11,590.6	11,400.0	1,438.6	1,279.5	9.042	SF
Dale 3K-20H-N264 - HZ - Plan #1	6,458.4	6,505.0	1,247.7	1,222.7	49.948	CC
Dale 3K-20H-N264 - HZ - Plan #1	11,590.6	11,773.8	1,255.2	1,093.3	7.752	ES, SF
Dale 3L-20H-N264 - HZ - Plan #1	6,417.4	6,488.8	1,022.6	997.8	41.155	CC
Dale 3L-20H-N264 - HZ - Plan #1	11,590.6	11,572.7	1,026.0	863.8	6.324	ES, SF
Dale 4A-20H-O264 - HZ - Plan #1	166.3	167.3	22.7	22.2	47.429	CC
Dale 4A-20H-O264 - HZ - Plan #1	200.0	201.0	22.7	22.1	38.064	ES
Dale 4A-20H-O264 - HZ - Plan #1	11,590.6	11,645.9	775.1	612.5	4.766	SF
Dale 4B-20H-O264 - HZ - Plan #1	232.2	233.2	15.1	14.4	21.342	CC, ES
Dale 4B-20H-O264 - HZ - Plan #1	11,590.6	11,752.2	565.6	407.2	3.571	SF
Dale 4C-20H-O264 - HZ - Plan #1	300.0	300.0	7.6	6.6	8.012	CC, ES
Dale 4C-20H-O264 - HZ - Plan #1	11,590.6	11,508.6	338.0	181.3	2.157	SF
Dale 4E-20H-O264 - HZ - Plan #1	350.0	350.0	7.3	6.2	6.520	CC
Dale 4E-20H-O264 - HZ - Plan #1	400.0	400.0	7.3	6.0	5.660	ES
Dale 4E-20H-O264 - HZ - Plan #1	11,590.6	11,747.9	265.1	125.6	1.900	SF
Dale 4F-20H-O264 - HZ - Plan #1	350.0	350.0	14.8	13.7	13.274	CC
Dale 4F-20H-O264 - HZ - Plan #1	400.0	400.0	14.9	13.6	11.505	ES
Dale 4F-20H-O264 - HZ - Plan #1	11,590.6	11,511.2	459.6	300.2	2.884	SF
Dale 4G-20H-O264 - HZ - Plan #1	350.0	350.0	22.4	21.3	20.033	CC
Dale 4G-20H-O264 - HZ - Plan #1	400.0	400.0	22.4	21.1	17.351	ES
Dale 4G-20H-O264 - HZ - Plan #1	11,590.6	11,625.6	675.0	512.3	4.149	SF
Dale 4H-20H-O264 - HZ - Plan #1	350.0	350.0	29.9	28.8	26.792	CC, ES
Dale 4H-20H-O264 - HZ - Plan #1	11,590.6	11,798.4	910.9	750.0	5.661	SF
Dale 4I-20H-O264 - HZ - Plan #1	300.0	300.0	37.5	36.5	39.765	CC, ES
Dale 4I-20H-O264 - HZ - Plan #1	11,590.6	11,601.5	1,128.8	966.7	6.961	SF
Dale 4J-20H-O264 - HZ - Plan #1	234.7	233.7	44.8	44.0	62.800	CC, ES
Dale 4J-20H-O264 - HZ - Plan #1	11,590.6	11,735.6	1,350.0	1,187.3	8.295	SF
Dale 4K-20H-O264 - HZ - Plan #1	200.0	199.0	52.3	51.7	88.400	CC, ES
Dale 4K-20H-O264 - HZ - Plan #1	600.0	589.5	79.8	77.8	40.166	SF
DALE 'E' UNIT 1 (EXISTING) - EXISTING - ENCANA WE	8,402.1	6,959.0	177.9	138.4	4.501	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	11,012.1	6,928.0	167.2	83.8	2.005	CC, ES, SF
RUHL 1 (EXISTING) - EXISTING - NEBRASKA WELL	8,775.1	6,953.0	177.6	132.1	3.904	CC, ES, 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 4D-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 4D-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 3J-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						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		
4,800.0	4,792.4	4,933.2	4,915.4	9.5	11.1	80.24	-268.0	-1,583.4	1,544.9	1,525.8	19.13	80.777		
4,900.0	4,892.2	5,032.9	5,014.6	9.7	11.3	80.24	-273.9	-1,576.4	1,536.9	1,517.4	19.53	78.692		
5,000.0	4,992.0	5,132.6	5,113.9	9.9	11.5	80.24	-279.8	-1,569.4	1,528.9	1,509.0	19.94	76.692		
5,100.0	5,091.8	5,232.3	5,213.1	10.1	11.8	80.23	-285.7	-1,562.4	1,520.9	1,500.5	20.34	74.772		
5,200.0	5,191.7	5,332.0	5,312.4	10.3	12.0	80.23	-291.5	-1,555.4	1,512.9	1,492.1	20.75	72.926		
5,300.0	5,291.5	5,431.6	5,411.6	10.5	12.2	80.23	-297.4	-1,548.4	1,504.8	1,483.7	21.15	71.151		
5,400.0	5,391.3	5,525.1	5,504.7	10.7	12.5	80.23	-302.9	-1,541.9	1,496.9	1,475.4	21.54	69.495		
5,500.0	5,491.1	5,608.4	5,587.7	10.9	12.6	80.26	-307.1	-1,536.8	1,489.8	1,467.9	21.90	68.026		
5,600.0	5,590.9	5,691.7	5,670.9	11.1	12.8	80.31	-310.6	-1,532.7	1,483.9	1,461.6	22.25	66.679		
5,664.9	5,655.7	5,745.8	5,724.9	11.2	12.9	80.36	-312.5	-1,530.5	1,480.6	1,458.1	22.48	65.868		
5,700.0	5,690.8	5,775.1	5,754.2	11.3	13.0	80.38	-313.3	-1,529.5	1,479.1	1,456.5	22.60	65.448		
5,800.0	5,790.7	5,858.6	5,837.6	11.5	13.1	80.42	-315.2	-1,527.2	1,475.6	1,452.7	22.92	64.372		
5,900.0	5,890.6	5,942.1	5,921.1	11.7	13.2	80.44	-316.4	-1,525.9	1,473.5	1,450.3	23.23	63.439		
6,009.4	6,000.0	6,036.0	6,015.0	11.8	13.3	-90.07	-316.7	-1,525.4	1,472.8	1,449.3	23.54	62.559		
6,100.0	6,090.6	6,126.6	6,105.6	12.0	13.5	-90.07	-316.7	-1,525.4	1,472.8	1,449.0	23.82	61.820		
6,200.0	6,190.6	6,226.6	6,205.6	12.1	13.6	-90.07	-316.7	-1,525.4	1,472.8	1,448.7	24.14	61.021		
6,300.0	6,290.6	6,326.6	6,305.6	12.3	13.8	-90.07	-316.7	-1,525.4	1,472.8	1,448.4	24.45	60.241		
6,400.0	6,390.6	6,426.6	6,405.6	12.4	13.9	-90.07	-316.7	-1,525.4	1,472.8	1,448.1	24.76	59.478		
6,458.4	6,449.0	6,485.2	6,464.2	12.5	14.0	-90.07	-316.7	-1,525.4	1,472.8	1,447.9	24.95	59.041		
6,500.0	6,490.6	6,529.2	6,508.2	12.6	14.0	-90.06	-314.8	-1,525.4	1,472.8	1,447.8	25.03	58.843		
6,550.0	6,540.2	6,582.2	6,560.7	12.6	14.0	-90.05	-308.1	-1,525.3	1,472.7	1,447.6	25.07	58.746		
6,600.0	6,589.2	6,635.1	6,612.3	12.6	14.0	-90.04	-296.6	-1,525.0	1,472.4	1,447.4	25.05	58.782		
6,650.0	6,637.1	6,687.9	6,666.2	12.5	14.0	-90.03	-280.5	-1,524.7	1,472.1	1,447.1	24.98	58.928		
6,700.0	6,683.5	6,740.6	6,711.0	12.5	14.0	-90.02	-259.8	-1,524.2	1,471.7	1,446.8	24.88	59.155		
6,750.0	6,728.2	6,793.1	6,757.2	12.4	13.9	-90.01	-234.8	-1,523.7	1,471.2	1,446.5	24.76	59.431		
6,800.0	6,770.7	6,845.5	6,800.8	12.4	13.9	-90.00	-205.8	-1,523.1	1,470.6	1,446.0	24.63	59.713		
6,850.0	6,810.8	6,897.7	6,841.4	12.3	13.8	-89.98	-173.1	-1,522.4	1,470.0	1,445.5	24.52	59.959		
6,900.0	6,848.2	6,949.7	6,878.8	12.3	13.8	-89.97	-136.9	-1,521.7	1,469.2	1,444.8	24.44	60.118		
6,950.0	6,882.5	7,001.5	6,912.6	12.2	13.8	-89.96	-97.7	-1,520.8	1,468.4	1,444.0	24.42	60.140		
7,000.0	6,913.5	7,053.0	6,942.5	12.2	13.8	-89.95	-55.8	-1,520.0	1,467.6	1,443.1	24.47	59.980		
7,050.0	6,941.0	7,104.4	6,968.5	12.3	13.9	-89.94	-11.6	-1,519.0	1,466.7	1,442.1	24.61	59.606		
7,100.0	6,964.7	7,155.4	6,990.3	12.4	14.1	-89.93	34.5	-1,518.1	1,465.7	1,440.9	24.84	58.996		
7,150.0	6,984.5	7,206.2	7,007.9	12.5	14.2	-89.92	82.2	-1,517.1	1,464.8	1,439.6	25.19	58.146		
7,200.0	7,000.2	7,256.8	7,021.1	12.7	14.5	-89.91	131.0	-1,516.0	1,463.7	1,438.1	25.65	57.069		
7,250.0	7,011.8	7,307.1	7,029.9	13.0	14.8	-89.90	180.5	-1,515.0	1,462.7	1,436.5	26.22	55.794		
7,300.0	7,019.0	7,357.2	7,034.4	13.3	15.1	-89.89	230.3	-1,513.9	1,461.7	1,434.8	26.89	54.366		
7,350.0	7,021.9	7,407.1	7,035.0	13.7	15.5	-89.90	280.2	-1,512.9	1,460.6	1,433.0	27.66	52.814		
7,358.4	7,022.0	7,415.5	7,035.0	13.7	15.5	-89.92	288.7	-1,512.7	1,460.4	1,432.6	27.80	52.535		
7,400.0	7,022.0	7,457.1	7,035.0	14.1	15.9	-89.92	330.2	-1,511.8	1,459.6	1,431.0	28.52	51.169		
7,500.0	7,022.0	7,557.1	7,035.0	15.0	16.8	-89.92	430.2	-1,509.7	1,457.5	1,427.0	30.46	47.845		
7,600.0	7,022.0	7,657.0	7,035.0	16.1	17.9	-89.92	530.1	-1,507.6	1,455.4	1,422.7	32.66	44.557		
7,700.0	7,022.0	7,757.0	7,035.0	17.3	19.0	-89.92	630.1	-1,505.5	1,453.3	1,418.2	35.08	41.430		
7,800.0	7,022.0	7,857.0	7,035.0	18.6	20.3	-89.92	730.0	-1,503.4	1,451.2	1,413.5	37.66	38.529		
7,900.0	7,022.0	7,957.0	7,035.0	19.9	21.6	-89.92	830.0	-1,501.3	1,449.1	1,408.7	40.39	35.876		
8,000.0	7,022.0	8,057.0	7,035.0	21.3	23.0	-89.92	929.9	-1,499.2	1,447.0	1,403.7	43.23	33.471		
8,100.0	7,022.0	8,156.9	7,035.0	22.8	24.4	-89.92	1,029.9	-1,497.1	1,444.9	1,398.7	46.16	31.300		
8,200.0	7,022.0	8,256.9	7,035.0	24.3	25.8	-89.92	1,129.8	-1,495.0	1,442.8	1,393.6	49.17	29.343		
8,300.0	7,022.0	8,356.9	7,035.0	25.8	27.3	-89.92	1,229.8	-1,492.9	1,440.7	1,388.4	52.24	27.578		
8,400.0	7,022.0	8,456.9	7,035.0	27.4	28.9	-89.92	1,329.8	-1,490.8	1,438.6	1,383.2	55.36	25.985		
8,500.0	7,022.0	8,556.8	7,035.0	28.9	30.4	-89.92	1,429.7	-1,488.7	1,436.5	1,377.9	58.53	24.544		
8,600.0	7,022.0	8,656.8	7,035.0	30.5	32.0	-89.92	1,529.7	-1,486.6	1,434.4	1,372.6	61.73	23.236		

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 4D-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 4D-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 3J-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 (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	
8,700.0	7,022.0	8,756.8	7,035.0	32.1	33.6	-89.92	1,629.6	-1,484.5	1,432.3	1,367.3	64.96	22.047		
8,800.0	7,022.0	8,856.8	7,035.0	33.8	35.2	-89.92	1,729.6	-1,482.4	1,430.2	1,361.9	68.23	20.962		
8,900.0	7,022.0	8,956.8	7,035.0	35.4	36.8	-89.92	1,829.5	-1,480.3	1,428.1	1,356.5	71.51	19.970		
9,000.0	7,022.0	9,056.7	7,035.0	37.1	38.4	-89.92	1,929.5	-1,478.2	1,426.0	1,351.1	74.81	19.060		
9,100.0	7,022.0	9,156.7	7,035.0	38.7	40.1	-89.92	2,029.4	-1,476.1	1,423.9	1,345.7	78.14	18.222		
9,200.0	7,022.0	9,256.7	7,035.0	40.4	41.7	-89.92	2,129.4	-1,474.0	1,421.7	1,340.3	81.48	17.450		
9,300.0	7,022.0	9,356.7	7,035.0	42.1	43.4	-89.92	2,229.4	-1,471.9	1,419.6	1,334.8	84.83	16.736		
9,400.0	7,022.0	9,456.6	7,035.0	43.7	45.1	-89.92	2,329.3	-1,469.8	1,417.5	1,329.4	88.19	16.074		
9,500.0	7,022.0	9,556.6	7,035.0	45.4	46.7	-89.92	2,429.3	-1,467.7	1,415.4	1,323.9	91.57	15.458		
9,600.0	7,022.0	9,656.6	7,035.0	47.1	48.4	-89.92	2,529.2	-1,465.6	1,413.3	1,318.4	94.95	14.885		
9,700.0	7,022.0	9,756.6	7,035.0	48.8	50.1	-89.92	2,629.2	-1,463.5	1,411.2	1,312.9	98.34	14.350		
9,800.0	7,022.0	9,856.6	7,035.0	50.5	51.8	-89.92	2,729.1	-1,461.4	1,409.1	1,307.4	101.74	13.850		
9,900.0	7,022.0	9,956.5	7,035.0	52.2	53.5	-89.92	2,829.1	-1,459.3	1,407.0	1,301.9	105.15	13.381		
10,000.0	7,022.0	10,056.5	7,035.0	53.9	55.2	-89.92	2,929.0	-1,457.2	1,404.9	1,296.4	108.57	12.941		
10,100.0	7,022.0	10,156.5	7,035.0	55.6	56.9	-89.92	3,029.0	-1,455.1	1,402.8	1,290.9	111.99	12.527		
10,200.0	7,022.0	10,256.5	7,035.0	57.3	58.6	-89.92	3,129.0	-1,453.0	1,400.7	1,285.3	115.41	12.137		
10,300.0	7,022.0	10,356.4	7,035.0	59.1	60.3	-89.92	3,228.9	-1,450.9	1,398.6	1,279.8	118.84	11.769		
10,400.0	7,022.0	10,442.0	7,035.0	60.8	61.7	-89.92	3,314.5	-1,449.4	1,396.9	1,274.9	122.03	11.447		
10,500.0	7,022.0	10,527.2	7,035.0	62.5	63.2	-89.92	3,399.6	-1,449.1	1,396.5	1,271.3	125.21	11.153		
10,600.0	7,022.0	10,627.2	7,035.0	64.2	64.9	-89.92	3,499.6	-1,449.1	1,396.5	1,267.8	128.65	10.855		
10,700.0	7,022.0	10,727.2	7,035.0	65.9	66.6	-89.92	3,599.6	-1,449.1	1,396.5	1,264.4	132.10	10.572		
10,800.0	7,022.0	10,827.2	7,035.0	67.7	68.3	-89.92	3,699.6	-1,449.1	1,396.5	1,260.9	135.55	10.303		
10,900.0	7,022.0	10,927.2	7,035.0	69.4	70.0	-89.92	3,799.6	-1,449.0	1,396.5	1,257.5	139.00	10.047		
11,000.0	7,022.0	11,027.2	7,035.0	71.1	71.8	-89.92	3,899.6	-1,449.0	1,396.5	1,254.0	142.45	9.803		
11,061.4	7,022.0	11,088.5	7,035.0	72.2	72.8	-89.92	3,961.0	-1,449.0	1,396.5	1,251.9	144.57	9.659 CC		
11,100.0	7,022.0	11,103.0	7,035.0	72.8	73.1	-89.92	3,975.5	-1,449.0	1,396.7	1,251.2	145.49	9.600		
11,200.0	7,022.0	11,171.8	7,035.0	74.6	74.2	-89.92	4,044.2	-1,450.4	1,398.9	1,250.5	148.41	9.426 ES		
11,300.0	7,022.0	11,227.0	7,035.0	76.3	75.2	-89.92	4,099.3	-1,453.5	1,404.5	1,253.4	151.09	9.295		
11,400.0	7,022.0	11,300.0	7,035.0	78.0	76.4	-89.92	4,172.0	-1,460.2	1,413.4	1,259.3	154.08	9.173		
11,500.0	7,022.0	11,336.6	7,035.0	79.8	77.0	-89.92	4,208.3	-1,464.7	1,425.0	1,268.6	156.44	9.109		
11,590.6	7,022.0	11,400.0	7,035.0	81.3	78.1	-89.92	4,271.0	-1,474.4	1,438.6	1,279.5	159.10	9.042 SF		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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 (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			
3,200.0	3,195.3	3,411.4	3,388.9	6.2	8.7	80.16	-179.4	-1,562.0	1,546.0	1,533.2	12.82	120.587				
3,300.0	3,295.1	3,510.6	3,487.2	6.4	9.0	80.15	-185.4	-1,550.5	1,533.4	1,520.2	13.23	115.938				
3,400.0	3,394.9	3,609.8	3,586.6	6.6	9.3	80.14	-191.5	-1,538.9	1,520.8	1,507.2	13.63	111.565				
3,500.0	3,494.7	3,709.0	3,683.9	6.8	9.6	80.13	-197.5	-1,527.4	1,508.2	1,494.2	14.04	107.443				
3,600.0	3,594.5	3,808.2	3,782.3	7.0	9.9	80.12	-203.6	-1,515.9	1,495.6	1,481.2	14.44	103.553				
3,700.0	3,694.4	3,907.4	3,880.6	7.2	10.1	80.10	-209.6	-1,504.4	1,483.0	1,468.2	14.85	99.874				
3,800.0	3,794.2	4,006.7	3,979.0	7.4	10.4	80.09	-215.7	-1,492.9	1,470.4	1,455.2	15.25	96.391				
3,900.0	3,894.0	4,105.9	4,077.3	7.6	10.7	80.08	-221.7	-1,481.3	1,457.8	1,442.2	15.66	93.088				
4,000.0	3,993.8	4,205.1	4,175.7	7.9	11.0	80.07	-227.8	-1,469.8	1,445.2	1,429.2	16.07	89.951				
4,100.0	4,093.6	4,304.3	4,274.0	8.1	11.3	80.06	-233.8	-1,458.3	1,432.6	1,416.2	16.47	86.968				
4,200.0	4,193.5	4,403.5	4,372.4	8.3	11.6	80.04	-239.9	-1,446.8	1,420.0	1,403.2	16.88	84.128				
4,300.0	4,293.3	4,502.7	4,470.7	8.5	11.9	80.03	-245.9	-1,435.2	1,407.4	1,390.2	17.29	81.422				
4,400.0	4,393.1	4,601.9	4,569.0	8.7	12.1	80.02	-252.0	-1,423.7	1,394.8	1,377.2	17.69	78.839				
4,500.0	4,492.9	4,701.1	4,667.4	8.9	12.4	80.00	-258.0	-1,412.2	1,382.2	1,364.1	18.10	76.373				
4,600.0	4,592.7	4,800.3	4,765.7	9.1	12.7	79.99	-264.1	-1,400.7	1,369.7	1,351.1	18.51	74.014				
4,700.0	4,692.6	4,899.5	4,864.1	9.3	13.0	79.98	-270.1	-1,389.2	1,357.1	1,338.1	18.91	71.756				
4,800.0	4,792.4	4,998.7	4,962.4	9.5	13.3	79.96	-276.1	-1,377.6	1,344.5	1,325.1	19.32	69.593				
4,900.0	4,892.2	5,097.9	5,060.8	9.7	13.6	79.95	-282.2	-1,366.1	1,331.9	1,312.1	19.73	67.519				
5,000.0	4,992.0	5,197.1	5,159.1	9.9	13.9	79.93	-288.2	-1,354.6	1,319.3	1,299.1	20.13	65.529				
5,100.0	5,091.8	5,294.8	5,256.0	10.1	14.1	79.92	-294.2	-1,343.3	1,306.7	1,286.1	20.54	63.627				
5,200.0	5,191.7	5,377.6	5,338.1	10.3	14.4	79.92	-298.9	-1,334.3	1,294.8	1,273.9	20.90	61.946				
5,300.0	5,291.5	5,460.6	5,420.6	10.5	14.6	79.95	-303.1	-1,326.3	1,284.3	1,263.0	21.26	60.400				
5,400.0	5,391.3	5,543.8	5,503.5	10.7	14.8	80.00	-306.7	-1,319.4	1,274.9	1,253.3	21.62	58.980				
5,500.0	5,491.1	5,627.2	5,586.6	10.9	14.9	80.08	-309.8	-1,313.5	1,266.9	1,244.9	21.96	57.681				
5,600.0	5,590.9	5,710.7	5,669.9	11.1	15.1	80.19	-312.3	-1,308.7	1,260.1	1,237.8	22.30	56.496				
5,664.9	5,655.7	5,764.9	5,724.1	11.2	15.2	80.28	-313.6	-1,306.2	1,256.4	1,233.9	22.52	55.787				
5,700.0	5,690.8	5,800.0	5,759.1	11.3	15.2	80.32	-314.4	-1,304.8	1,254.7	1,232.1	22.65	55.397				
5,800.0	5,790.7	5,878.0	5,837.1	11.5	15.4	80.38	-315.7	-1,302.3	1,250.8	1,227.8	22.96	54.480				
5,900.0	5,890.6	5,961.8	5,920.9	11.7	15.5	80.42	-316.5	-1,300.8	1,248.4	1,225.2	23.26	53.673				
6,009.4	6,000.0	6,055.9	6,015.0	11.8	15.6	-90.08	-316.7	-1,300.3	1,247.7	1,224.1	23.58	52.921				
6,100.0	6,090.6	6,146.5	6,105.6	12.0	15.7	-90.08	-316.7	-1,300.3	1,247.7	1,223.8	23.86	52.297				
6,200.0	6,190.6	6,246.5	6,205.6	12.1	15.8	-90.08	-316.7	-1,300.3	1,247.7	1,223.5	24.17	51.622				
6,300.0	6,290.6	6,346.5	6,305.6	12.3	15.9	-90.08	-316.7	-1,300.3	1,247.7	1,223.2	24.48	50.963				
6,400.0	6,390.6	6,446.5	6,405.6	12.4	16.0	-90.08	-316.7	-1,300.3	1,247.7	1,222.9	24.80	50.318				
6,458.4	6,449.0	6,505.0	6,464.0	12.5	16.1	-90.08	-316.7	-1,300.3	1,247.7	1,222.7	24.98	49.948 CC				
6,500.0	6,490.6	6,546.5	6,505.6	12.6	16.2	-90.15	-316.7	-1,300.3	1,247.7	1,222.6	25.09	49.724				
6,550.0	6,540.2	6,596.1	6,555.2	12.6	16.2	-90.41	-316.7	-1,300.3	1,247.7	1,222.5	25.21	49.496				
6,600.0	6,589.2	6,645.1	6,604.2	12.6	16.3	-90.85	-316.7	-1,300.3	1,247.8	1,222.5	25.31	49.307				
6,650.0	6,637.1	6,695.8	6,654.8	12.5	16.3	-91.40	-314.5	-1,300.3	1,248.1	1,222.7	25.36	49.219				
6,700.0	6,683.5	6,747.7	6,706.3	12.5	16.3	-91.94	-307.5	-1,300.3	1,248.4	1,223.1	25.35	49.239				
6,750.0	6,728.2	6,800.9	6,758.1	12.4	16.3	-92.47	-295.6	-1,300.3	1,248.9	1,223.6	25.30	49.355				
6,800.0	6,770.7	6,855.4	6,809.8	12.4	16.3	-92.99	-278.5	-1,300.3	1,249.5	1,224.3	25.22	49.553				
6,850.0	6,810.8	6,911.2	6,860.8	12.3	16.3	-93.49	-256.0	-1,300.3	1,250.1	1,225.0	25.10	49.802				
6,900.0	6,848.2	6,968.4	6,910.6	12.3	16.2	-93.97	-227.9	-1,300.3	1,250.8	1,225.8	24.98	50.070				
6,950.0	6,882.5	7,027.0	6,958.4	12.2	16.2	-94.43	-194.0	-1,300.3	1,251.6	1,226.7	24.88	50.312				
7,000.0	6,913.5	7,086.9	7,003.5	12.2	16.1	-94.85	-154.6	-1,300.3	1,252.3	1,227.5	24.81	50.478				
7,050.0	6,941.0	7,148.2	7,045.0	12.3	16.1	-95.23	-109.6	-1,300.3	1,253.0	1,228.2	24.81	50.508				
7,100.0	6,964.7	7,210.7	7,082.2	12.4	16.1	-95.57	-59.4	-1,300.3	1,253.7	1,228.8	24.90	50.341				
7,150.0	6,984.5	7,274.3	7,114.3	12.5	16.2	-95.86	-4.5	-1,300.3	1,254.3	1,229.2	25.14	49.894				
7,200.0	7,000.2	7,338.9	7,140.3	12.7	16.4	-96.09	54.6	-1,300.3	1,254.8	1,229.3	25.51	49.193				
7,250.0	7,011.8	7,404.2	7,159.8	13.0	16.6	-96.26	116.9	-1,300.3	1,255.2	1,229.1	26.04	48.203				
7,300.0	7,019.0	7,470.1	7,172.1	13.3	16.9	-96.37	181.6	-1,300.3	1,255.4	1,228.7	26.74	46.942				

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 4D-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 4D-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				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)				
7,350.0	7,021.9	7,536.2	7,176.9	13.7	17.3	-96.40	247.5	-1,300.3	1,255.5	1,227.9	27.60	45.495		
7,358.4	7,022.0	7,546.8	7,177.0	13.7	17.4	-96.40	258.0	-1,300.3	1,255.5	1,227.7	27.75	45.247		
7,400.0	7,022.0	7,588.3	7,177.0	14.1	17.6	-96.40	299.6	-1,300.2	1,255.5	1,227.0	28.44	44.150		
7,500.0	7,022.0	7,688.3	7,177.0	15.0	18.4	-96.40	399.6	-1,300.2	1,255.5	1,225.2	30.31	41.421		
7,600.0	7,022.0	7,788.3	7,177.0	16.1	19.3	-96.40	499.6	-1,300.2	1,255.5	1,223.0	32.45	38.692		
7,700.0	7,022.0	7,888.3	7,177.0	17.3	20.4	-96.40	599.6	-1,300.2	1,255.5	1,220.7	34.80	36.073		
7,800.0	7,022.0	7,988.3	7,177.0	18.6	21.5	-96.40	699.6	-1,300.2	1,255.5	1,218.1	37.34	33.625		
7,900.0	7,022.0	8,088.3	7,177.0	19.9	22.7	-96.40	799.6	-1,300.2	1,255.5	1,215.4	40.01	31.375		
8,000.0	7,022.0	8,188.3	7,177.0	21.3	23.9	-96.40	899.6	-1,300.2	1,255.4	1,212.6	42.81	29.327		
8,100.0	7,022.0	8,288.3	7,177.0	22.8	25.3	-96.40	999.6	-1,300.2	1,255.4	1,209.7	45.70	27.473		
8,200.0	7,022.0	8,388.3	7,177.0	24.3	26.6	-96.40	1,099.6	-1,300.2	1,255.4	1,206.8	48.67	25.797		
8,300.0	7,022.0	8,488.3	7,177.0	25.8	28.0	-96.40	1,199.6	-1,300.2	1,255.4	1,203.7	51.70	24.284		
8,400.0	7,022.0	8,588.3	7,177.0	27.4	29.5	-96.40	1,299.6	-1,300.2	1,255.4	1,200.6	54.78	22.916		
8,500.0	7,022.0	8,688.3	7,177.0	28.9	31.0	-96.40	1,399.6	-1,300.2	1,255.4	1,197.5	57.92	21.676		
8,600.0	7,022.0	8,788.3	7,177.0	30.5	32.5	-96.40	1,499.6	-1,300.2	1,255.4	1,194.3	61.09	20.551		
8,700.0	7,022.0	8,888.3	7,177.0	32.1	34.0	-96.40	1,599.6	-1,300.2	1,255.4	1,191.1	64.29	19.527		
8,800.0	7,022.0	8,988.3	7,177.0	33.8	35.6	-96.40	1,699.6	-1,300.2	1,255.4	1,187.9	67.52	18.593		
8,900.0	7,022.0	9,088.3	7,177.0	35.4	37.2	-96.40	1,799.6	-1,300.1	1,255.4	1,184.6	70.78	17.737		
9,000.0	7,022.0	9,188.3	7,177.0	37.1	38.7	-96.40	1,899.6	-1,300.1	1,255.4	1,181.3	74.05	16.952		
9,100.0	7,022.0	9,288.3	7,177.0	38.7	40.3	-96.40	1,999.6	-1,300.1	1,255.4	1,178.0	77.35	16.230		
9,200.0	7,022.0	9,388.3	7,177.0	40.4	42.0	-96.40	2,099.6	-1,300.1	1,255.4	1,174.7	80.66	15.564		
9,300.0	7,022.0	9,488.3	7,177.0	42.1	43.6	-96.40	2,199.6	-1,300.1	1,255.4	1,171.4	83.98	14.948		
9,400.0	7,022.0	9,588.3	7,177.0	43.7	45.2	-96.40	2,299.6	-1,300.1	1,255.4	1,168.0	87.32	14.376		
9,500.0	7,022.0	9,688.3	7,177.0	45.4	46.9	-96.40	2,399.6	-1,300.1	1,255.3	1,164.7	90.67	13.845		
9,600.0	7,022.0	9,788.3	7,177.0	47.1	48.5	-96.40	2,499.6	-1,300.1	1,255.3	1,161.3	94.03	13.351		
9,700.0	7,022.0	9,888.3	7,177.0	48.8	50.2	-96.40	2,599.6	-1,300.1	1,255.3	1,157.9	97.40	12.889		
9,800.0	7,022.0	9,988.3	7,177.0	50.5	51.8	-96.40	2,699.6	-1,300.1	1,255.3	1,154.6	100.77	12.457		
9,900.0	7,022.0	10,088.3	7,177.0	52.2	53.5	-96.40	2,799.6	-1,300.1	1,255.3	1,151.2	104.16	12.052		
10,000.0	7,022.0	10,188.3	7,177.0	53.9	55.2	-96.40	2,899.6	-1,300.1	1,255.3	1,147.8	107.55	11.672		
10,100.0	7,022.0	10,288.3	7,177.0	55.6	56.9	-96.40	2,999.6	-1,300.1	1,255.3	1,144.4	110.94	11.315		
10,200.0	7,022.0	10,388.3	7,177.0	57.3	58.5	-96.40	3,099.6	-1,300.1	1,255.3	1,141.0	114.34	10.978		
10,300.0	7,022.0	10,488.3	7,177.0	59.1	60.2	-96.40	3,199.6	-1,300.0	1,255.3	1,137.5	117.75	10.661		
10,400.0	7,022.0	10,588.3	7,177.0	60.8	61.9	-96.40	3,299.6	-1,300.0	1,255.3	1,134.1	121.16	10.361		
10,500.0	7,022.0	10,688.3	7,177.0	62.5	63.6	-96.40	3,399.6	-1,300.0	1,255.3	1,130.7	124.58	10.076		
10,600.0	7,022.0	10,788.3	7,177.0	64.2	65.3	-96.40	3,499.6	-1,300.0	1,255.3	1,127.3	127.99	9.807		
10,700.0	7,022.0	10,888.3	7,177.0	65.9	67.0	-96.40	3,599.6	-1,300.0	1,255.3	1,123.9	131.42	9.552		
10,800.0	7,022.0	10,988.3	7,177.0	67.7	68.7	-96.40	3,699.6	-1,300.0	1,255.3	1,120.4	134.84	9.309		
10,900.0	7,022.0	11,088.3	7,177.0	69.4	70.4	-96.40	3,799.6	-1,300.0	1,255.3	1,117.0	138.27	9.078		
11,000.0	7,022.0	11,188.3	7,177.0	71.1	72.1	-96.40	3,899.6	-1,300.0	1,255.3	1,113.6	141.70	8.858		
11,100.0	7,022.0	11,288.3	7,177.0	72.8	73.8	-96.40	3,999.6	-1,300.0	1,255.2	1,110.1	145.14	8.649		
11,200.0	7,022.0	11,388.3	7,177.0	74.6	75.6	-96.40	4,099.6	-1,300.0	1,255.2	1,106.7	148.57	8.449		
11,300.0	7,022.0	11,488.3	7,177.0	76.3	77.3	-96.40	4,199.6	-1,300.0	1,255.2	1,103.2	152.01	8.257		
11,400.0	7,022.0	11,588.3	7,177.0	78.0	79.0	-96.40	4,299.6	-1,300.0	1,255.2	1,099.8	155.45	8.075		
11,500.0	7,022.0	11,688.3	7,177.0	79.8	80.7	-96.40	4,399.6	-1,300.0	1,255.2	1,096.3	158.90	7.900		
11,564.3	7,022.0	11,752.7	7,177.0	80.9	81.8	-96.40	4,463.9	-1,300.0	1,255.2	1,094.1	161.11	7.791		
11,590.6	7,022.0	11,773.8	7,177.0	81.3	82.2	-96.40	4,485.1	-1,300.0	1,255.2	1,093.3	161.93	7.752 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 4D-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 4D-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									
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			
2,400.0	2,396.7	2,664.4	2,637.4	4.6	7.8	80.02	-138.4	-1,542.6	1,540.9	1,531.2	9.72	158.550				
2,500.0	2,496.5	2,763.1	2,734.9	4.8	8.2	80.02	-144.0	-1,528.1	1,525.2	1,515.1	10.12	150.731				
2,600.0	2,596.3	2,861.9	2,832.4	5.0	8.5	80.03	-149.5	-1,513.6	1,509.5	1,499.0	10.52	143.506				
2,700.0	2,696.2	2,960.6	2,929.9	5.2	8.8	80.03	-155.1	-1,499.0	1,493.8	1,482.9	10.92	136.810				
2,800.0	2,796.0	3,059.4	3,027.5	5.4	9.1	80.04	-160.6	-1,484.5	1,478.1	1,466.8	11.32	130.586				
2,900.0	2,895.8	3,158.2	3,125.0	5.6	9.5	80.04	-166.2	-1,470.0	1,462.4	1,450.7	11.72	124.787				
3,000.0	2,995.6	3,256.9	3,222.5	5.8	9.8	80.05	-171.7	-1,455.4	1,446.7	1,434.6	12.12	119.371				
3,100.0	3,095.4	3,355.7	3,320.0	6.0	10.1	80.05	-177.2	-1,440.9	1,431.0	1,418.5	12.52	114.301				
3,200.0	3,195.3	3,454.4	3,417.6	6.2	10.4	80.05	-182.8	-1,426.3	1,415.3	1,402.4	12.92	109.544				
3,300.0	3,295.1	3,553.2	3,515.1	6.4	10.8	80.06	-188.3	-1,411.8	1,399.6	1,386.3	13.32	105.074				
3,400.0	3,394.9	3,652.0	3,612.6	6.6	11.1	80.06	-193.9	-1,397.3	1,383.9	1,370.2	13.72	100.864				
3,500.0	3,494.7	3,750.7	3,710.1	6.8	11.4	80.07	-199.4	-1,382.7	1,368.2	1,354.1	14.12	96.893				
3,600.0	3,594.5	3,849.5	3,807.7	7.0	11.7	80.07	-205.0	-1,368.2	1,352.5	1,338.0	14.52	93.141				
3,700.0	3,694.4	3,948.2	3,905.2	7.2	12.0	80.08	-210.5	-1,353.7	1,336.8	1,321.9	14.92	89.590				
3,800.0	3,794.2	4,047.0	4,002.7	7.4	12.4	80.08	-216.1	-1,339.1	1,321.1	1,305.8	15.32	86.225				
3,900.0	3,894.0	4,145.8	4,100.2	7.6	12.7	80.09	-221.6	-1,324.6	1,305.4	1,289.7	15.72	83.031				
4,000.0	3,993.8	4,244.5	4,197.8	7.9	13.0	80.09	-227.2	-1,310.0	1,289.7	1,273.6	16.12	79.996				
4,100.0	4,093.6	4,343.3	4,295.3	8.1	13.3	80.10	-232.7	-1,295.5	1,274.0	1,257.5	16.52	77.108				
4,200.0	4,193.5	4,442.0	4,392.8	8.3	13.7	80.11	-238.3	-1,281.0	1,258.3	1,241.4	16.92	74.356				
4,300.0	4,293.3	4,540.8	4,490.4	8.5	14.0	80.11	-243.8	-1,266.4	1,242.6	1,225.3	17.32	71.732				
4,400.0	4,393.1	4,639.6	4,587.9	8.7	14.3	80.12	-249.4	-1,251.9	1,226.9	1,209.2	17.72	69.226				
4,500.0	4,492.9	4,738.3	4,685.4	8.9	14.6	80.12	-254.9	-1,237.3	1,211.2	1,193.1	18.12	66.832				
4,600.0	4,592.7	4,837.1	4,782.9	9.1	15.0	80.13	-260.5	-1,222.8	1,195.5	1,177.0	18.52	64.540				
4,700.0	4,692.6	4,935.8	4,880.5	9.3	15.3	80.14	-266.0	-1,208.3	1,179.8	1,160.9	18.92	62.346				
4,800.0	4,792.4	5,034.6	4,978.0	9.5	15.6	80.14	-271.6	-1,193.7	1,164.1	1,144.8	19.32	60.243				
4,900.0	4,892.2	5,133.4	5,075.5	9.7	15.9	80.15	-277.1	-1,179.2	1,148.4	1,128.7	19.72	58.225				
5,000.0	4,992.0	5,232.1	5,173.0	9.9	16.3	80.16	-282.6	-1,164.7	1,132.7	1,112.6	20.12	56.287				
5,100.0	5,091.8	5,330.9	5,270.6	10.1	16.6	80.17	-288.2	-1,150.1	1,117.0	1,096.5	20.52	54.425				
5,200.0	5,191.7	5,429.6	5,368.1	10.3	16.9	80.17	-293.7	-1,135.6	1,101.3	1,080.4	20.92	52.635				
5,300.0	5,291.5	5,528.4	5,465.6	10.5	17.2	80.18	-299.3	-1,121.0	1,085.6	1,064.3	21.32	50.911				
5,400.0	5,391.3	5,612.5	5,548.6	10.7	17.5	80.19	-304.0	-1,108.7	1,070.0	1,048.3	21.69	49.323				
5,500.0	5,491.1	5,700.0	5,635.3	10.9	17.8	80.22	-308.5	-1,097.0	1,055.8	1,033.7	22.06	47.858				
5,600.0	5,590.9	5,771.0	5,705.8	11.1	17.9	80.29	-311.4	-1,089.4	1,044.0	1,021.6	22.38	46.639				
5,664.9	5,655.7	5,819.2	5,753.8	11.2	18.0	80.36	-313.0	-1,085.1	1,037.6	1,015.0	22.59	45.924				
5,700.0	5,690.8	5,845.4	5,779.9	11.3	18.1	80.37	-313.7	-1,083.2	1,034.6	1,011.9	22.71	45.561				
5,800.0	5,790.7	5,920.0	5,854.4	11.5	18.2	80.39	-315.4	-1,078.7	1,027.9	1,004.9	23.02	44.656				
5,900.0	5,890.6	6,000.0	5,934.3	11.7	18.3	80.41	-316.5	-1,075.9	1,023.9	1,000.6	23.32	43.913				
6,009.4	6,000.0	6,080.7	6,015.0	11.8	18.4	-90.10	-316.8	-1,075.2	1,022.6	999.0	23.61	43.308				
6,100.0	6,090.6	6,171.3	6,105.6	12.0	18.5	-90.10	-316.8	-1,075.2	1,022.6	998.7	23.89	42.798				
6,200.0	6,190.6	6,271.3	6,205.6	12.1	18.6	-90.10	-316.8	-1,075.2	1,022.6	998.4	24.21	42.247				
6,300.0	6,290.6	6,371.3	6,305.6	12.3	18.7	-90.10	-316.8	-1,075.2	1,022.6	998.1	24.52	41.707				
6,400.0	6,390.6	6,471.4	6,405.7	12.4	18.8	-90.06	-316.0	-1,075.2	1,022.6	997.8	24.81	41.214				
6,417.4	6,408.0	6,488.8	6,423.0	12.5	18.8	-90.00	-314.9	-1,075.2	1,022.6	997.8	24.85	41.155 CC				
6,458.4	6,449.0	6,529.4	6,463.3	12.5	18.8	-89.73	-310.2	-1,075.2	1,022.7	997.7	24.90	41.063				
6,500.0	6,490.6	6,569.9	6,503.2	12.6	18.8	-89.39	-302.7	-1,075.2	1,022.7	997.8	24.92	41.047				
6,550.0	6,540.2	6,618.1	6,549.7	12.6	18.8	-88.98	-290.1	-1,075.2	1,022.8	997.9	24.88	41.108				
6,600.0	6,589.2	6,665.8	6,594.5	12.6	18.7	-88.58	-273.9	-1,075.2	1,023.0	998.2	24.81	41.236				
6,650.0	6,637.1	6,712.9	6,637.3	12.5	18.7	-88.19	-254.2	-1,075.2	1,023.2	998.4	24.71	41.411				
6,700.0	6,683.5	6,759.5	6,677.9	12.5	18.7	-87.82	-231.4	-1,075.2	1,023.4	998.8	24.59	41.615				
6,750.0	6,728.2	6,805.7	6,716.2	12.4	18.6	-87.46	-205.6	-1,075.2	1,023.7	999.2	24.47	41.825				
6,800.0	6,770.7	6,850.0	6,750.8	12.4	18.6	-87.14	-178.0	-1,075.2	1,023.9	999.6	24.37	42.016				
6,850.0	6,810.8	6,896.8	6,785.1	12.3	18.6	-86.81	-146.1	-1,075.2	1,024.2	999.9	24.29	42.163				

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 4D-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 4D-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
6,900.0	6,848.2	6,941.9	6,815.4	12.3	18.6	-86.52	-112.8	-1,075.2	1,024.5	1,000.3	24.26	42.238		
6,950.0	6,882.5	6,986.6	6,842.8	12.2	18.6	-86.25	-77.5	-1,075.2	1,024.8	1,000.6	24.27	42.220		
7,000.0	6,913.5	7,031.0	6,867.2	12.2	18.6	-86.01	-40.4	-1,075.2	1,025.1	1,000.8	24.36	42.079		
7,050.0	6,941.0	7,075.2	6,888.6	12.3	18.7	-85.79	-1.8	-1,075.2	1,025.4	1,000.9	24.50	41.850		
7,100.0	6,964.7	7,119.1	6,906.9	12.4	18.8	-85.61	38.2	-1,075.2	1,025.6	1,000.9	24.74	41.457		
7,150.0	6,984.5	7,162.9	6,922.0	12.5	18.9	-85.45	79.3	-1,075.2	1,025.9	1,000.8	25.06	40.934		
7,200.0	7,000.2	7,206.6	6,933.9	12.7	19.0	-85.32	121.3	-1,075.2	1,026.0	1,000.6	25.47	40.285		
7,250.0	7,011.8	7,250.0	6,942.5	13.0	19.2	-85.23	163.8	-1,075.2	1,026.2	1,000.2	25.96	39.522		
7,300.0	7,019.0	7,293.6	6,947.9	13.3	19.4	-85.17	207.1	-1,075.2	1,026.3	999.7	26.55	38.651		
7,350.0	7,021.9	7,337.0	6,950.0	13.7	19.6	-85.14	250.5	-1,075.2	1,026.3	999.1	27.21	37.713		
7,358.4	7,022.0	7,344.6	6,950.0	13.7	19.6	-85.14	258.0	-1,075.2	1,026.3	999.0	27.33	37.547		
7,400.0	7,022.0	7,386.2	6,950.0	14.1	19.9	-85.14	299.6	-1,075.2	1,026.3	998.3	28.03	36.609		
7,500.0	7,022.0	7,486.2	6,950.0	15.0	20.6	-85.14	399.6	-1,075.2	1,026.3	996.3	29.94	34.282		
7,600.0	7,022.0	7,586.2	6,950.0	16.1	21.4	-85.14	499.6	-1,075.2	1,026.3	994.2	32.10	31.968		
7,700.0	7,022.0	7,686.2	6,950.0	17.3	22.3	-85.14	599.6	-1,075.2	1,026.3	991.8	34.49	29.756		
7,800.0	7,022.0	7,786.2	6,950.0	18.6	23.3	-85.14	699.6	-1,075.2	1,026.3	989.2	37.05	27.698		
7,900.0	7,022.0	7,886.2	6,950.0	19.9	24.4	-85.14	799.6	-1,075.2	1,026.3	986.5	39.76	25.813		
8,000.0	7,022.0	7,986.2	6,950.0	21.3	25.6	-85.14	899.6	-1,075.1	1,026.2	983.7	42.58	24.103		
8,100.0	7,022.0	8,086.2	6,950.0	22.8	26.8	-85.14	999.6	-1,075.1	1,026.2	980.7	45.49	22.559		
8,200.0	7,022.0	8,186.2	6,950.0	24.3	28.1	-85.14	1,099.6	-1,075.1	1,026.2	977.7	48.48	21.167		
8,300.0	7,022.0	8,286.2	6,950.0	25.8	29.5	-85.14	1,199.6	-1,075.1	1,026.2	974.7	51.54	19.912		
8,400.0	7,022.0	8,386.2	6,950.0	27.4	30.8	-85.14	1,299.6	-1,075.1	1,026.2	971.6	54.65	18.779		
8,500.0	7,022.0	8,486.2	6,950.0	28.9	32.3	-85.14	1,399.6	-1,075.1	1,026.2	968.4	57.80	17.755		
8,600.0	7,022.0	8,586.2	6,950.0	30.5	33.7	-85.14	1,499.6	-1,075.1	1,026.2	965.2	60.99	16.826		
8,700.0	7,022.0	8,686.2	6,950.0	32.1	35.2	-85.14	1,599.6	-1,075.1	1,026.2	962.0	64.21	15.982		
8,800.0	7,022.0	8,786.2	6,950.0	33.8	36.7	-85.14	1,699.6	-1,075.1	1,026.2	958.7	67.46	15.212		
8,900.0	7,022.0	8,886.2	6,950.0	35.4	38.2	-85.14	1,799.6	-1,075.1	1,026.2	955.5	70.73	14.508		
9,000.0	7,022.0	8,986.2	6,950.0	37.1	39.8	-85.14	1,899.6	-1,075.1	1,026.2	952.2	74.02	13.863		
9,100.0	7,022.0	9,086.2	6,950.0	38.7	41.3	-85.14	1,999.6	-1,075.1	1,026.2	948.8	77.33	13.269		
9,200.0	7,022.0	9,186.2	6,950.0	40.4	42.9	-85.14	2,099.6	-1,075.0	1,026.2	945.5	80.66	12.722		
9,300.0	7,022.0	9,286.2	6,950.0	42.1	44.5	-85.14	2,199.6	-1,075.0	1,026.2	942.2	84.00	12.216		
9,400.0	7,022.0	9,386.2	6,950.0	43.7	46.1	-85.14	2,299.6	-1,075.0	1,026.1	938.8	87.35	11.747		
9,500.0	7,022.0	9,486.2	6,950.0	45.4	47.7	-85.14	2,399.6	-1,075.0	1,026.1	935.4	90.71	11.312		
9,600.0	7,022.0	9,586.2	6,950.0	47.1	49.3	-85.14	2,499.6	-1,075.0	1,026.1	932.0	94.09	10.906		
9,700.0	7,022.0	9,686.2	6,950.0	48.8	50.9	-85.14	2,599.6	-1,075.0	1,026.1	928.7	97.47	10.528		
9,800.0	7,022.0	9,786.2	6,950.0	50.5	52.6	-85.14	2,699.6	-1,075.0	1,026.1	925.3	100.86	10.174		
9,900.0	7,022.0	9,886.2	6,950.0	52.2	54.2	-85.14	2,799.6	-1,075.0	1,026.1	921.9	104.25	9.842		
10,000.0	7,022.0	9,986.2	6,950.0	53.9	55.9	-85.14	2,899.6	-1,075.0	1,026.1	918.4	107.66	9.531		
10,100.0	7,022.0	10,086.2	6,950.0	55.6	57.5	-85.14	2,999.6	-1,075.0	1,026.1	915.0	111.06	9.239		
10,200.0	7,022.0	10,186.2	6,950.0	57.3	59.2	-85.14	3,099.6	-1,075.0	1,026.1	911.6	114.48	8.963		
10,300.0	7,022.0	10,286.2	6,950.0	59.1	60.9	-85.14	3,199.6	-1,075.0	1,026.1	908.2	117.90	8.703		
10,400.0	7,022.0	10,386.2	6,950.0	60.8	62.5	-85.14	3,299.6	-1,075.0	1,026.1	904.8	121.32	8.458		
10,500.0	7,022.0	10,486.2	6,950.0	62.5	64.2	-85.14	3,399.6	-1,074.9	1,026.1	901.3	124.75	8.225		
10,600.0	7,022.0	10,586.2	6,950.0	64.2	65.9	-85.14	3,499.6	-1,074.9	1,026.1	897.9	128.18	8.005		
10,700.0	7,022.0	10,686.2	6,950.0	65.9	67.6	-85.14	3,599.6	-1,074.9	1,026.1	894.4	131.61	7.796		
10,800.0	7,022.0	10,786.2	6,950.0	67.7	69.3	-85.14	3,699.6	-1,074.9	1,026.0	891.0	135.05	7.598		
10,900.0	7,022.0	10,886.2	6,950.0	69.4	71.0	-85.14	3,799.6	-1,074.9	1,026.0	887.5	138.49	7.409		
11,000.0	7,022.0	10,986.2	6,950.0	71.1	72.7	-85.14	3,899.6	-1,074.9	1,026.0	884.1	141.93	7.229		
11,100.0	7,022.0	11,086.2	6,950.0	72.8	74.4	-85.14	3,999.6	-1,074.9	1,026.0	880.6	145.38	7.058		
11,200.0	7,022.0	11,186.2	6,950.0	74.6	76.1	-85.14	4,099.6	-1,074.9	1,026.0	877.2	148.82	6.894		
11,300.0	7,022.0	11,286.2	6,950.0	76.3	77.8	-85.14	4,199.6	-1,074.9	1,026.0	873.7	152.27	6.738		
11,400.0	7,022.0	11,386.2	6,950.0	78.0	79.5	-85.14	4,299.6	-1,074.9	1,026.0	870.3	155.73	6.589		

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 4D-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 4D-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

<b>Offset Design</b> S20-T2N-R64W (Dale) - Dale 3L-20H-N264 - HZ - Plan #1													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 0-Geolink MWD													<b>Offset Well Error:</b> 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
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
11,500.0	7,022.0	11,486.2	6,950.0	79.8	81.2	-85.14	4,399.6	-1,074.9	1,026.0	866.8	159.18	6.446	
11,564.9	7,022.0	11,551.0	6,950.0	80.9	82.3	-85.14	4,464.5	-1,074.9	1,026.0	864.6	161.42	6.356	
11,590.6	7,022.0	11,572.7	6,950.0	81.3	82.7	-85.14	4,486.1	-1,074.9	1,026.0	863.8	162.24	6.324 ES, SF	





## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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	-90.10	0.0	-22.7	22.7					
100.0	100.0	101.0	101.0	0.1	0.1	-90.10	0.0	-22.7	22.7	22.4	0.25	92.053		
166.3	166.3	167.3	167.3	0.2	0.2	-90.10	0.0	-22.7	22.7	22.2	0.48	47.429 CC		
200.0	200.0	201.0	201.0	0.3	0.3	-90.10	0.0	-22.7	22.7	22.1	0.60	38.064 ES		
300.0	300.0	300.0	300.0	0.5	0.5	-91.59	-0.7	-24.3	24.3	23.4	0.94	25.789		
350.0	350.0	349.8	349.7	0.6	0.6	-93.19	-1.5	-26.3	26.4	25.3	1.12	23.605		
400.0	400.0	399.2	399.1	0.6	0.7	75.87	-2.6	-29.1	29.2	27.9	1.29	22.613		
500.0	500.0	497.8	497.3	0.8	0.9	74.57	-5.7	-37.1	37.1	35.5	1.64	22.569		
600.0	599.9	595.8	594.6	1.0	1.2	74.63	-10.0	-48.1	47.8	45.8	2.00	23.874		
694.5	694.3	688.4	686.0	1.2	1.4	75.31	-15.1	-61.2	60.4	58.0	2.35	25.654		
700.0	699.8	693.8	691.4	1.2	1.5	75.38	-15.4	-62.0	61.2	58.8	2.38	25.749		
800.0	799.6	792.8	789.2	1.4	1.8	76.36	-21.2	-76.7	75.0	72.3	2.76	27.199		
900.0	899.4	891.9	886.9	1.6	2.1	77.04	-27.0	-91.5	88.9	85.7	3.15	28.257		
1,000.0	999.2	990.9	984.7	1.8	2.4	77.53	-32.7	-106.2	102.8	99.2	3.54	29.057		
1,100.0	1,099.1	1,089.9	1,082.4	2.0	2.7	77.91	-38.5	-121.0	116.7	112.7	3.93	29.681		
1,200.0	1,198.9	1,189.0	1,180.2	2.2	3.0	78.20	-44.3	-135.7	130.5	126.2	4.33	30.180		
1,300.0	1,298.7	1,288.0	1,277.9	2.4	3.4	78.44	-50.0	-150.4	144.4	139.7	4.72	30.588		
1,400.0	1,398.5	1,387.0	1,375.7	2.6	3.7	78.64	-55.8	-165.2	158.3	153.2	5.12	30.926		
1,500.0	1,498.3	1,486.0	1,473.5	2.8	4.0	78.81	-61.6	-179.9	172.2	166.7	5.52	31.211		
1,600.0	1,598.2	1,585.1	1,571.2	3.0	4.3	78.95	-67.3	-194.7	186.1	180.2	5.92	31.455		
1,700.0	1,698.0	1,684.1	1,669.0	3.2	4.7	79.07	-73.1	-209.4	200.0	193.7	6.32	31.665		
1,800.0	1,797.8	1,783.1	1,766.7	3.4	5.0	79.17	-78.9	-224.1	213.9	207.2	6.72	31.848		
1,900.0	1,897.6	1,882.2	1,864.5	3.6	5.3	79.27	-84.6	-238.9	227.8	220.7	7.12	32.009		
2,000.0	1,997.4	1,981.2	1,962.2	3.8	5.6	79.35	-90.4	-253.6	241.7	234.2	7.52	32.152		
2,100.0	2,097.3	2,080.2	2,060.0	4.0	6.0	79.42	-96.2	-268.3	255.6	247.7	7.92	32.279		
2,200.0	2,197.1	2,179.2	2,157.7	4.2	6.3	79.49	-101.9	-283.1	269.5	261.2	8.32	32.393		
2,300.0	2,296.9	2,278.3	2,255.5	4.4	6.6	79.55	-107.7	-297.8	283.4	274.7	8.72	32.496		
2,400.0	2,396.7	2,377.3	2,353.3	4.6	7.0	79.60	-113.5	-312.6	297.3	288.2	9.12	32.590		
2,500.0	2,496.5	2,476.3	2,451.0	4.8	7.3	79.65	-119.2	-327.3	311.2	301.7	9.53	32.674		
2,600.0	2,596.3	2,575.4	2,548.8	5.0	7.6	79.69	-125.0	-342.0	325.1	315.2	9.93	32.752		
2,700.0	2,696.2	2,674.4	2,646.5	5.2	7.9	79.73	-130.8	-356.8	339.0	328.7	10.33	32.823		
2,800.0	2,796.0	2,773.4	2,744.3	5.4	8.3	79.77	-136.6	-371.5	352.9	342.2	10.73	32.889		
2,900.0	2,895.8	2,872.4	2,842.0	5.6	8.6	79.81	-142.3	-386.3	366.8	355.7	11.13	32.950		
3,000.0	2,995.6	2,971.5	2,939.8	5.8	8.9	79.84	-148.1	-401.0	380.7	369.2	11.54	33.006		
3,100.0	3,095.4	3,070.5	3,037.5	6.0	9.3	79.87	-153.9	-415.7	394.6	382.7	11.94	33.058		
3,200.0	3,195.3	3,169.5	3,135.3	6.2	9.6	79.90	-159.6	-430.5	408.6	396.2	12.34	33.107		
3,300.0	3,295.1	3,268.6	3,233.1	6.4	9.9	79.92	-165.4	-445.2	422.5	409.7	12.74	33.152		
3,400.0	3,394.9	3,367.6	3,330.8	6.6	10.2	79.95	-171.2	-460.0	436.4	423.2	13.15	33.195		
3,500.0	3,494.7	3,466.6	3,428.6	6.8	10.6	79.97	-176.9	-474.7	450.3	436.7	13.55	33.235		
3,600.0	3,594.5	3,565.7	3,526.3	7.0	10.9	79.99	-182.7	-489.4	464.2	450.2	13.95	33.272		
3,700.0	3,694.4	3,664.7	3,624.1	7.2	11.2	80.01	-188.5	-504.2	478.1	463.7	14.35	33.307		
3,800.0	3,794.2	3,763.7	3,721.8	7.4	11.5	80.03	-194.2	-518.9	492.0	477.2	14.76	33.341		
3,900.0	3,894.0	3,862.7	3,819.6	7.6	11.9	80.05	-200.0	-533.6	505.9	490.7	15.16	33.372		
4,000.0	3,993.8	3,961.8	3,917.3	7.9	12.2	80.07	-205.8	-548.4	519.8	504.2	15.56	33.402		
4,100.0	4,093.6	4,060.8	4,015.1	8.1	12.5	80.08	-211.5	-563.1	533.7	517.7	15.96	33.430		
4,200.0	4,193.5	4,159.8	4,112.9	8.3	12.9	80.10	-217.3	-577.9	547.6	531.2	16.37	33.457		
4,300.0	4,293.3	4,258.9	4,210.6	8.5	13.2	80.11	-223.1	-592.6	561.5	544.7	16.77	33.482		
4,400.0	4,393.1	4,357.9	4,308.4	8.7	13.5	80.13	-228.8	-607.3	575.4	558.2	17.17	33.506		
4,500.0	4,492.9	4,456.9	4,406.1	8.9	13.8	80.14	-234.6	-622.1	589.3	571.7	17.58	33.529		
4,600.0	4,592.7	4,555.9	4,503.9	9.1	14.2	80.15	-240.4	-636.8	603.2	585.2	17.98	33.551		
4,700.0	4,692.6	4,655.0	4,601.6	9.3	14.5	80.16	-246.1	-651.6	617.1	598.7	18.38	33.572		
4,800.0	4,792.4	4,754.0	4,699.4	9.5	14.8	80.18	-251.9	-666.3	631.0	612.2	18.78	33.592		

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 4D-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 4D-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		
4,900.0	4,892.2	4,853.0	4,797.2	9.7	15.2	80.19	-257.7	-681.0	644.9	625.7	19.19	33.611		
5,000.0	4,992.0	4,952.1	4,894.9	9.9	15.5	80.20	-263.4	-695.8	658.8	639.2	19.59	33.630		
5,100.0	5,091.8	5,051.1	4,992.7	10.1	15.8	80.21	-269.2	-710.5	672.7	652.7	19.99	33.647		
5,200.0	5,191.7	5,150.1	5,090.4	10.3	16.1	80.22	-275.0	-725.3	686.6	666.2	20.40	33.664		
5,300.0	5,291.5	5,249.1	5,188.2	10.5	16.5	80.23	-280.7	-740.0	700.5	679.7	20.80	33.680		
5,400.0	5,391.3	5,348.2	5,285.9	10.7	16.8	80.24	-286.5	-754.7	714.4	693.2	21.20	33.696		
5,500.0	5,491.1	5,447.2	5,383.7	10.9	17.1	80.24	-292.3	-769.5	728.3	706.7	21.61	33.711		
5,600.0	5,590.9	5,546.2	5,481.4	11.1	17.5	80.25	-298.0	-784.2	742.2	720.2	22.01	33.725		
5,664.9	5,655.7	5,611.4	5,545.8	11.2	17.7	80.26	-301.8	-793.9	751.3	729.0	22.27	33.732		
5,700.0	5,690.8	5,657.5	5,591.3	11.3	17.8	80.31	-304.4	-800.4	755.8	733.4	22.43	33.692		
5,800.0	5,790.7	5,789.6	5,722.5	11.5	18.1	80.42	-310.1	-815.1	766.3	743.4	22.87	33.502		
5,900.0	5,890.6	5,922.7	5,855.3	11.7	18.4	80.49	-313.7	-824.2	772.7	749.4	23.27	33.200		
6,009.4	6,000.0	6,068.5	6,001.0	11.8	18.5	-90.00	-315.0	-827.7	775.1	751.4	23.67	32.741		
6,100.0	6,090.6	6,159.1	6,091.6	12.0	18.6	-90.00	-315.0	-827.7	775.1	751.1	23.95	32.357		
6,200.0	6,190.6	6,259.1	6,191.6	12.1	18.7	-90.00	-315.0	-827.7	775.1	750.8	24.26	31.943		
6,300.0	6,290.6	6,359.1	6,291.6	12.3	18.8	-90.00	-315.0	-827.7	775.1	750.5	24.58	31.537		
6,400.0	6,390.6	6,459.1	6,391.6	12.4	18.9	-90.00	-315.0	-827.7	775.1	750.2	24.89	31.141		
6,458.4	6,449.0	6,517.6	6,450.0	12.5	19.0	-90.00	-315.0	-827.7	775.1	750.0	25.07	30.914		
6,461.5	6,452.2	6,520.7	6,453.2	12.5	19.0	-90.00	-315.0	-827.7	775.1	750.0	25.08	30.906		
6,500.0	6,490.6	6,559.1	6,491.6	12.6	19.0	-90.00	-313.5	-827.7	775.1	749.9	25.16	30.811		
6,550.0	6,540.2	6,609.1	6,541.2	12.6	19.0	-89.99	-307.6	-827.7	775.1	749.9	25.20	30.762		
6,600.0	6,589.2	6,659.1	6,590.1	12.6	19.0	-89.98	-297.4	-827.7	775.1	749.9	25.18	30.783		
6,650.0	6,637.1	6,709.1	6,638.0	12.5	19.0	-89.98	-283.0	-827.7	775.1	749.9	25.11	30.862		
6,700.0	6,683.5	6,759.1	6,684.4	12.5	19.0	-89.97	-264.5	-827.7	775.1	750.0	25.01	30.986		
6,750.0	6,728.2	6,809.0	6,729.0	12.4	18.9	-89.97	-242.0	-827.7	775.1	750.2	24.89	31.140		
6,800.0	6,770.7	6,859.0	6,771.4	12.4	18.9	-89.96	-215.7	-827.7	775.1	750.3	24.76	31.306		
6,850.0	6,810.8	6,908.9	6,811.4	12.3	18.8	-89.96	-185.9	-827.7	775.1	750.4	24.64	31.461		
6,900.0	6,848.2	6,958.9	6,848.7	12.3	18.8	-89.95	-152.6	-827.7	775.1	750.5	24.54	31.581		
6,950.0	6,882.5	7,008.8	6,882.9	12.2	18.8	-89.95	-116.3	-827.7	775.1	750.6	24.49	31.642		
7,000.0	6,913.5	7,058.8	6,913.8	12.2	18.8	-89.94	-77.1	-827.7	775.1	750.5	24.51	31.621		
7,050.0	6,941.0	7,108.7	6,941.2	12.3	18.8	-89.94	-35.4	-827.7	775.1	750.4	24.61	31.496		
7,100.0	6,964.7	7,158.6	6,964.9	12.4	18.9	-89.93	8.6	-827.7	775.1	750.3	24.80	31.252		
7,150.0	6,984.5	7,208.5	6,984.6	12.5	19.0	-89.93	54.4	-827.7	775.1	750.0	25.10	30.883		
7,200.0	7,000.2	7,258.5	7,000.3	12.7	19.1	-89.93	101.8	-827.7	775.1	749.6	25.50	30.391		
7,250.0	7,011.8	7,308.4	7,011.8	13.0	19.3	-89.93	150.3	-827.7	775.1	749.0	26.02	29.786		
7,300.0	7,019.0	7,358.3	7,019.0	13.3	19.5	-89.93	199.7	-827.7	775.1	748.4	26.65	29.087		
7,350.0	7,021.9	7,408.2	7,021.9	13.7	19.7	-89.93	249.5	-827.7	775.1	747.7	27.37	28.318		
7,358.4	7,022.0	7,416.6	7,022.0	13.7	19.8	-89.93	258.0	-827.7	775.1	747.6	27.50	28.183		
7,400.0	7,022.0	7,458.2	7,022.0	14.1	20.0	-89.93	299.5	-827.7	775.1	746.9	28.20	27.483		
7,500.0	7,022.0	7,558.2	7,022.0	15.0	20.7	-89.93	399.5	-827.7	775.1	745.0	30.08	25.767		
7,600.0	7,022.0	7,658.2	7,022.0	16.1	21.4	-89.93	499.5	-827.7	775.1	742.8	32.23	24.051		
7,700.0	7,022.0	7,758.2	7,022.0	17.3	22.3	-89.93	599.5	-827.7	775.1	740.5	34.60	22.403		
7,800.0	7,022.0	7,858.2	7,022.0	18.6	23.3	-89.93	699.5	-827.7	775.1	737.9	37.15	20.865		
7,900.0	7,022.0	7,958.2	7,022.0	19.9	24.4	-89.93	799.5	-827.7	775.1	735.2	39.84	19.453		
8,000.0	7,022.0	8,058.2	7,022.0	21.3	25.6	-89.93	899.5	-827.7	775.1	732.4	42.66	18.169		
8,100.0	7,022.0	8,158.2	7,022.0	22.8	26.8	-89.93	999.5	-827.7	775.1	729.5	45.57	17.008		
8,200.0	7,022.0	8,258.2	7,022.0	24.3	28.1	-89.93	1,099.5	-827.7	775.1	726.5	48.56	15.961		
8,300.0	7,022.0	8,358.2	7,022.0	25.8	29.4	-89.93	1,199.5	-827.7	775.1	723.5	51.62	15.016		
8,400.0	7,022.0	8,458.2	7,022.0	27.4	30.8	-89.93	1,299.5	-827.7	775.1	720.3	54.73	14.163		
8,500.0	7,022.0	8,558.2	7,022.0	28.9	32.2	-89.93	1,399.5	-827.7	775.1	717.2	57.88	13.391		
8,600.0	7,022.0	8,658.2	7,022.0	30.5	33.6	-89.93	1,499.5	-827.7	775.1	714.0	61.08	12.690		
8,700.0	7,022.0	8,758.2	7,022.0	32.1	35.1	-89.93	1,599.5	-827.7	775.1	710.8	64.30	12.054		

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 4D-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 4D-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		
8,800.0	7,022.0	8,858.2	7,022.0	33.8	36.6	-89.93	1,699.5	-827.7	775.1	707.5	67.56	11.473		
8,900.0	7,022.0	8,958.2	7,022.0	35.4	38.1	-89.93	1,799.5	-827.7	775.1	704.2	70.84	10.942		
9,000.0	7,022.0	9,058.2	7,022.0	37.1	39.7	-89.93	1,899.5	-827.7	775.1	700.9	74.14	10.455		
9,100.0	7,022.0	9,158.2	7,022.0	38.7	41.2	-89.93	1,999.5	-827.7	775.1	697.6	77.46	10.007		
9,200.0	7,022.0	9,258.2	7,022.0	40.4	42.8	-89.93	2,099.5	-827.7	775.1	694.3	80.79	9.594		
9,300.0	7,022.0	9,358.2	7,022.0	42.1	44.4	-89.93	2,199.5	-827.7	775.1	690.9	84.14	9.212		
9,400.0	7,022.0	9,458.2	7,022.0	43.7	46.0	-89.93	2,299.5	-827.7	775.1	687.6	87.50	8.858		
9,500.0	7,022.0	9,558.2	7,022.0	45.4	47.6	-89.93	2,399.5	-827.7	775.1	684.2	90.87	8.529		
9,600.0	7,022.0	9,658.2	7,022.0	47.1	49.2	-89.93	2,499.5	-827.7	775.1	680.8	94.25	8.223		
9,700.0	7,022.0	9,758.2	7,022.0	48.8	50.8	-89.93	2,599.5	-827.7	775.1	677.4	97.65	7.938		
9,800.0	7,022.0	9,858.2	7,022.0	50.5	52.5	-89.93	2,699.5	-827.7	775.1	674.0	101.04	7.671		
9,900.0	7,022.0	9,958.2	7,022.0	52.2	54.1	-89.93	2,799.5	-827.7	775.1	670.6	104.45	7.421		
10,000.0	7,022.0	10,058.2	7,022.0	53.9	55.8	-89.93	2,899.5	-827.7	775.1	667.2	107.86	7.186		
10,100.0	7,022.0	10,158.2	7,022.0	55.6	57.4	-89.93	2,999.5	-827.7	775.1	663.8	111.28	6.965		
10,200.0	7,022.0	10,258.2	7,022.0	57.3	59.1	-89.93	3,099.5	-827.7	775.1	660.4	114.71	6.757		
10,300.0	7,022.0	10,358.2	7,022.0	59.1	60.7	-89.93	3,199.5	-827.7	775.1	657.0	118.14	6.561		
10,400.0	7,022.0	10,458.2	7,022.0	60.8	62.4	-89.93	3,299.5	-827.7	775.1	653.5	121.57	6.376		
10,500.0	7,022.0	10,558.2	7,022.0	62.5	64.1	-89.93	3,399.5	-827.7	775.1	650.1	125.01	6.200		
10,600.0	7,022.0	10,658.2	7,022.0	64.2	65.8	-89.93	3,499.5	-827.7	775.1	646.6	128.45	6.034		
10,700.0	7,022.0	10,758.2	7,022.0	65.9	67.4	-89.93	3,599.5	-827.7	775.1	643.2	131.89	5.877		
10,800.0	7,022.0	10,858.2	7,022.0	67.7	69.1	-89.93	3,699.5	-827.7	775.1	639.8	135.34	5.727		
10,900.0	7,022.0	10,958.2	7,022.0	69.4	70.8	-89.93	3,799.5	-827.7	775.1	636.3	138.79	5.585		
11,000.0	7,022.0	11,058.2	7,022.0	71.1	72.5	-89.93	3,899.5	-827.7	775.1	632.9	142.25	5.449		
11,100.0	7,022.0	11,158.2	7,022.0	72.8	74.2	-89.93	3,999.5	-827.7	775.1	629.4	145.70	5.320		
11,200.0	7,022.0	11,258.2	7,022.0	74.6	75.9	-89.93	4,099.5	-827.7	775.1	625.9	149.16	5.196		
11,300.0	7,022.0	11,358.2	7,022.0	76.3	77.6	-89.93	4,199.5	-827.7	775.1	622.5	152.62	5.079		
11,400.0	7,022.0	11,458.2	7,022.0	78.0	79.3	-89.93	4,299.5	-827.7	775.1	619.0	156.09	4.966		
11,500.0	7,022.0	11,558.2	7,022.0	79.8	81.0	-89.93	4,399.5	-827.7	775.1	615.6	159.55	4.858		
11,553.7	7,022.0	11,611.9	7,022.0	80.7	81.9	-89.93	4,453.2	-827.7	775.1	613.7	161.41	4.802		
11,590.6	7,022.0	11,645.9	7,022.0	81.3	82.5	-89.93	4,487.2	-827.7	775.1	612.5	162.64	4.766 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-90.10	0.0	-15.1	15.1					
100.0	100.0	101.0	101.0	0.1	0.1	-90.10	0.0	-15.1	15.1	14.9	0.25	61.368		
200.0	200.0	201.0	201.0	0.3	0.3	-90.10	0.0	-15.1	15.1	14.5	0.60	25.375		
232.2	232.2	233.2	233.2	0.4	0.4	-90.10	0.0	-15.1	15.1	14.4	0.71	21.342 CC, ES		
300.0	300.0	300.8	300.8	0.5	0.5	-90.88	-0.2	-15.5	15.5	14.6	0.94	16.425		
350.0	350.0	350.5	350.5	0.6	0.6	-92.95	-0.9	-16.7	16.7	15.6	1.12	14.919		
400.0	400.0	400.0	399.9	0.6	0.7	75.36	-1.9	-18.6	18.6	17.3	1.29	14.410		
500.0	500.0	499.3	499.0	0.8	0.9	72.89	-5.1	-24.7	24.6	23.0	1.65	14.960		
600.0	599.9	598.0	597.1	1.0	1.1	72.25	-10.0	-33.7	33.3	31.3	2.01	16.617		
694.5	694.3	691.9	690.4	1.2	1.3	73.10	-15.4	-43.9	42.8	40.4	2.36	18.115		
700.0	699.8	697.4	695.8	1.2	1.4	73.20	-15.8	-44.4	43.3	40.9	2.38	18.181		
800.0	799.6	797.0	794.6	1.4	1.6	74.66	-21.5	-55.2	53.0	50.3	2.76	19.182		
900.0	899.4	896.5	893.4	1.6	1.9	75.67	-27.3	-65.9	62.8	59.6	3.15	19.914		
1,000.0	999.2	996.0	992.1	1.8	2.1	76.40	-33.1	-76.7	72.6	69.0	3.55	20.470		
1,100.0	1,099.1	1,095.5	1,090.9	2.0	2.4	76.97	-38.8	-87.4	82.4	78.4	3.94	20.904		
1,200.0	1,198.9	1,195.0	1,189.7	2.2	2.7	77.41	-44.6	-98.2	92.2	87.8	4.34	21.252		
1,300.0	1,298.7	1,294.5	1,288.4	2.4	3.0	77.77	-50.3	-108.9	102.0	97.2	4.73	21.536		
1,400.0	1,398.5	1,394.1	1,387.2	2.6	3.2	78.06	-56.1	-119.7	111.8	106.6	5.13	21.772		
1,500.0	1,498.3	1,493.6	1,486.0	2.8	3.5	78.31	-61.9	-130.4	121.6	116.0	5.53	21.971		
1,600.0	1,598.2	1,593.1	1,584.7	3.0	3.8	78.52	-67.6	-141.2	131.4	125.4	5.93	22.142		
1,700.0	1,698.0	1,692.6	1,683.5	3.2	4.0	78.70	-73.4	-151.9	141.2	134.9	6.33	22.289		
1,800.0	1,797.8	1,792.1	1,782.3	3.4	4.3	78.86	-79.2	-162.7	151.0	144.3	6.74	22.417		
1,900.0	1,897.6	1,891.6	1,881.0	3.6	4.6	79.00	-84.9	-173.5	160.8	153.7	7.14	22.530		
2,000.0	1,997.4	1,991.2	1,979.8	3.8	4.9	79.12	-90.7	-184.2	170.6	163.1	7.54	22.629		
2,100.0	2,097.3	2,090.7	2,078.6	4.0	5.1	79.23	-96.5	-195.0	180.4	172.5	7.94	22.719		
2,200.0	2,197.1	2,190.2	2,177.3	4.2	5.4	79.32	-102.2	-205.7	190.3	181.9	8.34	22.798		
2,300.0	2,296.9	2,289.7	2,276.1	4.4	5.7	79.41	-108.0	-216.5	200.1	191.3	8.75	22.871		
2,400.0	2,396.7	2,389.2	2,374.9	4.6	6.0	79.49	-113.7	-227.2	209.9	200.7	9.15	22.936		
2,500.0	2,496.5	2,488.7	2,473.6	4.8	6.2	79.57	-119.5	-238.0	219.7	210.1	9.55	22.996		
2,600.0	2,596.3	2,588.3	2,572.4	5.0	6.5	79.63	-125.3	-248.7	229.5	219.6	9.96	23.050		
2,700.0	2,696.2	2,687.8	2,671.2	5.2	6.8	79.69	-131.0	-259.5	239.3	229.0	10.36	23.100		
2,800.0	2,796.0	2,787.3	2,769.9	5.4	7.1	79.75	-136.8	-270.2	249.1	238.4	10.76	23.146		
2,900.0	2,895.8	2,886.8	2,868.7	5.6	7.3	79.80	-142.6	-281.0	259.0	247.8	11.17	23.189		
3,000.0	2,995.6	2,986.3	2,967.5	5.8	7.6	79.85	-148.3	-291.7	268.8	257.2	11.57	23.228		
3,100.0	3,095.4	3,085.8	3,066.2	6.0	7.9	79.89	-154.1	-302.5	278.6	266.6	11.97	23.265		
3,200.0	3,195.3	3,185.4	3,165.0	6.2	8.2	79.94	-159.9	-313.2	288.4	276.0	12.38	23.299		
3,300.0	3,295.1	3,284.9	3,263.8	6.4	8.4	79.98	-165.6	-324.0	298.2	285.4	12.78	23.331		
3,400.0	3,394.9	3,384.4	3,362.5	6.6	8.7	80.01	-171.4	-334.7	308.0	294.9	13.19	23.361		
3,500.0	3,494.7	3,483.9	3,461.3	6.8	9.0	80.05	-177.2	-345.5	317.9	304.3	13.59	23.389		
3,600.0	3,594.5	3,583.4	3,560.1	7.0	9.3	80.08	-182.9	-356.2	327.7	313.7	13.99	23.415		
3,700.0	3,694.4	3,682.9	3,658.8	7.2	9.5	80.11	-188.7	-367.0	337.5	323.1	14.40	23.440		
3,800.0	3,794.2	3,782.5	3,757.6	7.4	9.8	80.14	-194.4	-377.7	347.3	332.5	14.80	23.463		
3,900.0	3,894.0	3,882.0	3,856.4	7.6	10.1	80.16	-200.2	-388.5	357.1	341.9	15.21	23.485		
4,000.0	3,993.8	3,981.5	3,955.1	7.9	10.4	80.19	-206.0	-399.2	366.9	351.3	15.61	23.506		
4,100.0	4,093.6	4,081.0	4,053.9	8.1	10.6	80.21	-211.7	-410.0	376.8	360.7	16.01	23.526		
4,200.0	4,193.5	4,180.5	4,152.7	8.3	10.9	80.24	-217.5	-420.7	386.6	370.2	16.42	23.545		
4,300.0	4,293.3	4,280.0	4,251.4	8.5	11.2	80.26	-223.3	-431.5	396.4	379.6	16.82	23.562		
4,400.0	4,393.1	4,379.6	4,350.2	8.7	11.5	80.28	-229.0	-442.2	406.2	389.0	17.23	23.579		
4,500.0	4,492.9	4,479.1	4,449.0	8.9	11.8	80.30	-234.8	-453.0	416.0	398.4	17.63	23.596		
4,600.0	4,592.7	4,578.6	4,547.7	9.1	12.0	80.32	-240.6	-463.7	425.8	407.8	18.04	23.611		
4,700.0	4,692.6	4,678.1	4,646.5	9.3	12.3	80.34	-246.3	-474.5	435.7	417.2	18.44	23.626		
4,800.0	4,792.4	4,777.6	4,745.3	9.5	12.6	80.35	-252.1	-485.2	445.5	426.6	18.84	23.640		

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 4D-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 4D-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				
4,900.0	4,892.2	4,877.1	4,844.0	9.7	12.9	80.37	-257.8	-496.0	455.3	436.1	19.25	23.653				
5,000.0	4,992.0	4,976.7	4,942.8	9.9	13.1	80.39	-263.6	-506.7	465.1	445.5	19.65	23.666				
5,100.0	5,091.8	5,076.2	5,041.6	10.1	13.4	80.40	-269.4	-517.5	474.9	454.9	20.06	23.678				
5,200.0	5,191.7	5,175.7	5,140.3	10.3	13.7	80.42	-275.1	-528.2	484.8	464.3	20.46	23.690				
5,300.0	5,291.5	5,275.2	5,239.1	10.5	14.0	80.43	-280.9	-539.0	494.6	473.7	20.87	23.702				
5,400.0	5,391.3	5,374.7	5,337.9	10.7	14.2	80.44	-286.7	-549.7	504.4	483.1	21.27	23.713				
5,500.0	5,491.1	5,474.2	5,436.6	10.9	14.5	80.46	-292.4	-560.5	514.2	492.5	21.68	23.723				
5,600.0	5,590.9	5,573.8	5,535.4	11.1	14.8	80.47	-298.2	-571.2	524.0	501.9	22.08	23.733				
5,664.9	5,655.7	5,638.4	5,599.5	11.2	15.0	80.48	-301.9	-578.2	530.4	508.1	22.34	23.740				
5,700.0	5,690.8	5,673.3	5,634.1	11.3	15.1	80.50	-304.0	-582.0	533.9	511.4	22.48	23.744				
5,800.0	5,790.7	5,789.7	5,749.9	11.5	15.3	80.51	-309.9	-593.0	542.6	519.7	22.89	23.709				
5,900.0	5,890.6	5,909.7	5,869.6	11.7	15.5	80.51	-313.6	-600.0	548.0	524.7	23.26	23.559				
6,009.4	6,000.0	6,041.1	6,001.0	11.8	15.7	-90.00	-315.0	-602.6	550.0	526.4	23.63	23.271				
6,100.0	6,090.6	6,131.7	6,091.6	12.0	15.8	-90.00	-315.0	-602.6	550.0	526.1	23.92	22.998				
6,200.0	6,190.6	6,231.7	6,191.6	12.1	15.9	-90.00	-315.0	-602.6	550.0	525.8	24.23	22.703				
6,300.0	6,290.6	6,331.7	6,291.6	12.3	16.1	-90.00	-315.0	-602.6	550.0	525.5	24.54	22.415				
6,400.0	6,390.6	6,431.7	6,391.6	12.4	16.2	-90.00	-315.0	-602.6	550.0	525.2	24.85	22.133				
6,458.4	6,449.0	6,490.2	6,450.0	12.5	16.3	-90.00	-315.0	-602.6	550.0	525.0	25.03	21.971				
6,466.2	6,456.8	6,497.9	6,457.8	12.5	16.3	-90.01	-315.0	-602.6	550.0	524.9	25.05	21.954				
6,500.0	6,490.6	6,531.7	6,491.6	12.6	16.3	-90.16	-315.0	-602.6	550.0	524.9	25.13	21.889				
6,550.0	6,540.2	6,581.3	6,541.2	12.6	16.4	-90.75	-315.0	-602.6	550.1	524.9	25.17	21.850				
6,600.0	6,589.2	6,630.5	6,590.4	12.6	16.4	-91.76	-315.0	-602.6	550.3	525.1	25.15	21.876				
6,650.0	6,637.1	6,681.3	6,641.0	12.5	16.5	-92.92	-312.0	-602.6	550.8	525.7	25.07	21.966				
6,700.0	6,683.5	6,733.1	6,692.3	12.5	16.5	-94.08	-304.3	-602.6	551.5	526.5	24.95	22.100				
6,750.0	6,728.2	6,786.0	6,743.7	12.4	16.4	-95.21	-291.7	-602.6	552.4	527.6	24.81	22.265				
6,800.0	6,770.7	6,840.2	6,794.9	12.4	16.4	-96.32	-274.0	-602.6	553.5	528.9	24.66	22.450				
6,850.0	6,810.8	6,895.7	6,845.3	12.3	16.4	-97.38	-251.0	-602.6	554.8	530.3	24.50	22.640				
6,900.0	6,848.2	6,952.4	6,894.3	12.3	16.3	-98.40	-222.5	-602.6	556.2	531.8	24.38	22.817				
6,950.0	6,882.5	7,010.3	6,941.2	12.2	16.3	-99.35	-188.5	-602.6	557.7	533.4	24.29	22.960				
7,000.0	6,913.5	7,069.6	6,985.3	12.2	16.2	-100.23	-149.0	-602.6	559.1	534.9	24.26	23.048				
7,050.0	6,941.0	7,130.0	7,025.9	12.3	16.2	-101.03	-104.3	-602.6	560.6	536.3	24.31	23.062				
7,100.0	6,964.7	7,191.5	7,062.2	12.4	16.2	-101.74	-54.6	-602.6	561.9	537.5	24.45	22.987				
7,150.0	6,984.5	7,254.1	7,093.4	12.5	16.3	-102.34	-0.4	-602.6	563.1	538.5	24.69	22.810				
7,200.0	7,000.2	7,317.6	7,118.9	12.7	16.4	-102.82	57.6	-602.6	564.1	539.1	25.06	22.514				
7,250.0	7,011.8	7,381.7	7,137.9	13.0	16.6	-103.18	118.9	-602.6	564.9	539.4	25.55	22.113				
7,300.0	7,019.0	7,446.3	7,150.0	13.3	16.9	-103.40	182.3	-602.6	565.4	539.3	26.15	21.618				
7,350.0	7,021.9	7,511.2	7,154.9	13.7	17.3	-103.49	247.0	-602.6	565.6	538.7	26.88	21.041				
7,358.4	7,022.0	7,522.2	7,155.0	13.7	17.3	-103.50	258.0	-602.6	565.6	538.6	27.01	20.938				
7,400.0	7,022.0	7,563.8	7,155.0	14.1	17.6	-103.50	299.5	-602.6	565.6	537.9	27.69	20.424				
7,500.0	7,022.0	7,663.8	7,155.0	15.0	18.4	-103.50	399.5	-602.6	565.6	536.1	29.52	19.159				
7,600.0	7,022.0	7,763.8	7,155.0	16.1	19.3	-103.50	499.5	-602.6	565.6	534.0	31.61	17.894				
7,700.0	7,022.0	7,863.8	7,155.0	17.3	20.3	-103.50	599.5	-602.6	565.6	531.7	33.91	16.679				
7,800.0	7,022.0	7,963.8	7,155.0	18.6	21.4	-103.50	699.5	-602.6	565.6	529.2	36.39	15.544				
7,900.0	7,022.0	8,063.8	7,155.0	19.9	22.6	-103.50	799.5	-602.6	565.6	526.6	39.01	14.500				
8,000.0	7,022.0	8,163.8	7,155.0	21.3	23.8	-103.50	899.5	-602.6	565.6	523.9	41.74	13.550				
8,100.0	7,022.0	8,263.8	7,155.0	22.8	25.1	-103.50	999.5	-602.6	565.6	521.1	44.57	12.691				
8,200.0	7,022.0	8,363.8	7,155.0	24.3	26.5	-103.50	1,099.5	-602.6	565.6	518.1	47.47	11.914				
8,300.0	7,022.0	8,463.8	7,155.0	25.8	27.9	-103.50	1,199.5	-602.6	565.6	515.2	50.44	11.213				
8,400.0	7,022.0	8,563.8	7,155.0	27.4	29.3	-103.50	1,299.5	-602.6	565.6	512.2	53.46	10.579				
8,500.0	7,022.0	8,663.8	7,155.0	28.9	30.8	-103.50	1,399.5	-602.6	565.6	509.1	56.53	10.006				
8,600.0	7,022.0	8,763.8	7,155.0	30.5	32.3	-103.50	1,499.5	-602.6	565.6	506.0	59.63	9.485				
8,700.0	7,022.0	8,863.8	7,155.0	32.1	33.9	-103.50	1,599.5	-602.6	565.6	502.9	62.77	9.011				

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 4D-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 4D-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				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)			
8,800.0	7,022.0	8,963.8	7,155.0	33.8	35.4	-103.50	1,699.5	-602.6	565.6	499.7	65.93	8.579	
8,900.0	7,022.0	9,063.8	7,155.0	35.4	37.0	-103.50	1,799.5	-602.6	565.6	496.5	69.12	8.183	
9,000.0	7,022.0	9,163.8	7,155.0	37.1	38.6	-103.50	1,899.5	-602.6	565.6	493.3	72.33	7.820	
9,100.0	7,022.0	9,263.8	7,155.0	38.7	40.2	-103.50	1,999.5	-602.6	565.6	490.1	75.55	7.486	
9,200.0	7,022.0	9,363.8	7,155.0	40.4	41.8	-103.50	2,099.5	-602.6	565.6	486.8	78.79	7.178	
9,300.0	7,022.0	9,463.8	7,155.0	42.1	43.4	-103.50	2,199.5	-602.6	565.6	483.6	82.05	6.894	
9,400.0	7,022.0	9,563.8	7,155.0	43.7	45.0	-103.50	2,299.5	-602.6	565.6	480.3	85.32	6.630	
9,500.0	7,022.0	9,663.8	7,155.0	45.4	46.7	-103.50	2,399.5	-602.6	565.6	477.0	88.60	6.384	
9,600.0	7,022.0	9,763.8	7,155.0	47.1	48.3	-103.50	2,499.5	-602.6	565.6	473.7	91.88	6.156	
9,700.0	7,022.0	9,863.8	7,155.0	48.8	50.0	-103.50	2,599.5	-602.6	565.6	470.4	95.18	5.943	
9,800.0	7,022.0	9,963.8	7,155.0	50.5	51.6	-103.50	2,699.5	-602.6	565.6	467.1	98.49	5.743	
9,900.0	7,022.0	10,063.8	7,155.0	52.2	53.3	-103.50	2,799.5	-602.6	565.6	463.8	101.80	5.556	
10,000.0	7,022.0	10,163.8	7,155.0	53.9	55.0	-103.50	2,899.5	-602.6	565.6	460.5	105.12	5.381	
10,100.0	7,022.0	10,263.8	7,155.0	55.6	56.7	-103.50	2,999.5	-602.6	565.6	457.2	108.44	5.216	
10,200.0	7,022.0	10,363.8	7,155.0	57.3	58.3	-103.50	3,099.5	-602.6	565.6	453.9	111.77	5.061	
10,300.0	7,022.0	10,463.8	7,155.0	59.1	60.0	-103.50	3,199.5	-602.6	565.6	450.5	115.10	4.914	
10,400.0	7,022.0	10,563.8	7,155.0	60.8	61.7	-103.50	3,299.5	-602.6	565.6	447.2	118.44	4.776	
10,500.0	7,022.0	10,663.8	7,155.0	62.5	63.4	-103.50	3,399.5	-602.6	565.6	443.8	121.79	4.644	
10,600.0	7,022.0	10,763.8	7,155.0	64.2	65.1	-103.50	3,499.5	-602.6	565.6	440.5	125.13	4.520	
10,700.0	7,022.0	10,863.8	7,155.0	65.9	66.8	-103.50	3,599.5	-602.6	565.6	437.1	128.48	4.402	
10,800.0	7,022.0	10,963.8	7,155.0	67.7	68.5	-103.50	3,699.5	-602.6	565.6	433.8	131.84	4.290	
10,900.0	7,022.0	11,063.8	7,155.0	69.4	70.2	-103.50	3,799.5	-602.6	565.6	430.4	135.19	4.184	
11,000.0	7,022.0	11,163.8	7,155.0	71.1	71.9	-103.50	3,899.5	-602.6	565.6	427.1	138.55	4.082	
11,100.0	7,022.0	11,263.8	7,155.0	72.8	73.6	-103.50	3,999.5	-602.6	565.6	423.7	141.91	3.986	
11,200.0	7,022.0	11,363.8	7,155.0	74.6	75.3	-103.50	4,099.5	-602.6	565.6	420.4	145.28	3.893	
11,300.0	7,022.0	11,463.8	7,155.0	76.3	77.1	-103.50	4,199.5	-602.6	565.6	417.0	148.64	3.805	
11,400.0	7,022.0	11,563.8	7,155.0	78.0	78.8	-103.50	4,299.5	-602.6	565.6	413.6	152.01	3.721	
11,500.0	7,022.0	11,663.8	7,155.0	79.8	80.5	-103.50	4,399.5	-602.6	565.6	410.2	155.38	3.640	
11,554.1	7,022.0	11,717.8	7,155.0	80.7	81.4	-103.50	4,453.6	-602.6	565.6	408.4	157.20	3.598	
11,590.6	7,022.0	11,752.2	7,155.0	81.3	82.0	-103.50	4,487.9	-602.6	565.6	407.2	158.40	3.571 SF	



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.10	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.1	0.1	-90.10	0.0	-7.6	7.6	7.3	0.24	30.903		
200.0	200.0	200.0	200.0	0.3	0.3	-90.10	0.0	-7.6	7.6	7.0	0.59	12.725		
300.0	300.0	300.0	300.0	0.5	0.5	-90.10	0.0	-7.6	7.6	6.6	0.94	8.012 CC, ES		
350.0	350.0	349.9	349.9	0.6	0.6	-92.11	-0.3	-7.9	7.9	6.8	1.12	7.063		
400.0	400.0	399.8	399.7	0.6	0.6	74.64	-1.1	-8.9	8.9	7.6	1.29	6.888		
500.0	500.0	499.4	499.2	0.8	0.8	69.11	-4.5	-12.9	12.8	11.2	1.65	7.795		
600.0	599.9	598.9	598.4	1.0	1.0	66.83	-9.8	-19.3	19.0	17.0	2.01	9.465		
694.5	694.3	693.2	692.3	1.2	1.3	68.52	-15.2	-25.8	24.7	22.4	2.36	10.478		
700.0	699.8	698.7	697.8	1.2	1.3	68.70	-15.6	-26.2	25.0	22.7	2.38	10.520		
800.0	799.6	798.5	797.2	1.4	1.5	71.23	-21.3	-33.1	30.8	28.1	2.76	11.159		
900.0	899.4	898.4	896.6	1.6	1.7	72.95	-27.1	-40.0	36.7	33.5	3.15	11.635		
1,000.0	999.2	998.2	996.0	1.8	1.9	74.20	-32.8	-46.9	42.6	39.0	3.55	12.002		
1,100.0	1,099.1	1,098.0	1,095.5	2.0	2.2	75.15	-38.6	-53.8	48.4	44.5	3.94	12.290		
1,200.0	1,198.9	1,197.8	1,194.9	2.2	2.4	75.89	-44.3	-60.7	54.3	50.0	4.34	12.524		
1,300.0	1,298.7	1,297.7	1,294.3	2.4	2.6	76.49	-50.1	-67.6	60.2	55.5	4.74	12.715		
1,400.0	1,398.5	1,397.5	1,393.7	2.6	2.9	76.98	-55.8	-74.5	66.1	61.0	5.14	12.876		
1,500.0	1,498.3	1,497.3	1,493.1	2.8	3.1	77.39	-61.6	-81.5	72.1	66.5	5.54	13.012		
1,600.0	1,598.2	1,597.1	1,592.6	3.0	3.3	77.74	-67.4	-88.4	78.0	72.0	5.94	13.128		
1,700.0	1,698.0	1,697.0	1,692.0	3.2	3.6	78.04	-73.1	-95.3	83.9	77.5	6.34	13.229		
1,800.0	1,797.8	1,796.8	1,791.4	3.4	3.8	78.29	-78.9	-102.2	89.8	83.1	6.74	13.317		
1,900.0	1,897.6	1,896.6	1,890.8	3.6	4.0	78.52	-84.6	-109.1	95.7	88.6	7.15	13.395		
2,000.0	1,997.4	1,996.4	1,990.2	3.8	4.3	78.72	-90.4	-116.0	101.7	94.1	7.55	13.465		
2,100.0	2,097.3	2,096.2	2,089.6	4.0	4.5	78.90	-96.1	-122.9	107.6	99.6	7.95	13.526		
2,200.0	2,197.1	2,196.1	2,189.1	4.2	4.7	79.06	-101.9	-129.8	113.5	105.1	8.36	13.582		
2,300.0	2,296.9	2,295.9	2,288.5	4.4	5.0	79.20	-107.6	-136.7	119.4	110.7	8.76	13.632		
2,400.0	2,396.7	2,395.7	2,387.9	4.6	5.2	79.34	-113.4	-143.6	125.4	116.2	9.16	13.678		
2,500.0	2,496.5	2,495.5	2,487.3	4.8	5.4	79.45	-119.2	-150.5	131.3	121.7	9.57	13.720		
2,600.0	2,596.3	2,595.4	2,586.7	5.0	5.7	79.56	-124.9	-157.4	137.2	127.2	9.97	13.758		
2,700.0	2,696.2	2,695.2	2,686.2	5.2	5.9	79.66	-130.7	-164.3	143.1	132.8	10.38	13.793		
2,800.0	2,796.0	2,795.0	2,785.6	5.4	6.1	79.75	-136.4	-171.2	149.1	138.3	10.78	13.825		
2,900.0	2,895.8	2,894.8	2,885.0	5.6	6.4	79.84	-142.2	-178.1	155.0	143.8	11.19	13.855		
3,000.0	2,995.6	2,994.7	2,984.4	5.8	6.6	79.92	-147.9	-185.0	160.9	149.3	11.59	13.883		
3,100.0	3,095.4	3,094.5	3,083.8	6.0	6.8	79.99	-153.7	-192.0	166.9	154.9	12.00	13.909		
3,200.0	3,195.3	3,194.3	3,183.2	6.2	7.1	80.06	-159.4	-198.9	172.8	160.4	12.40	13.933		
3,300.0	3,295.1	3,294.1	3,282.7	6.4	7.3	80.12	-165.2	-205.8	178.7	165.9	12.81	13.956		
3,400.0	3,394.9	3,394.0	3,382.1	6.6	7.5	80.18	-170.9	-212.7	184.6	171.4	13.21	13.977		
3,500.0	3,494.7	3,493.8	3,481.5	6.8	7.8	80.23	-176.7	-219.6	190.6	177.0	13.62	13.996		
3,600.0	3,594.5	3,593.6	3,580.9	7.0	8.0	80.29	-182.5	-226.5	196.5	182.5	14.02	14.015		
3,700.0	3,694.4	3,693.4	3,680.3	7.2	8.3	80.34	-188.2	-233.4	202.4	188.0	14.43	14.033		
3,800.0	3,794.2	3,793.3	3,779.8	7.4	8.5	80.38	-194.0	-240.3	208.4	193.5	14.83	14.049		
3,900.0	3,894.0	3,893.1	3,879.2	7.6	8.7	80.43	-199.7	-247.2	214.3	199.1	15.24	14.065		
4,000.0	3,993.8	3,992.9	3,978.6	7.9	9.0	80.47	-205.5	-254.1	220.2	204.6	15.64	14.080		
4,100.0	4,093.6	4,092.7	4,078.0	8.1	9.2	80.51	-211.2	-261.0	226.2	210.1	16.05	14.094		
4,200.0	4,193.5	4,192.5	4,177.4	8.3	9.4	80.54	-217.0	-267.9	232.1	215.6	16.45	14.107		
4,300.0	4,293.3	4,292.4	4,276.9	8.5	9.7	80.58	-222.7	-274.8	238.0	221.2	16.86	14.120		
4,400.0	4,393.1	4,392.2	4,376.3	8.7	9.9	80.61	-228.5	-281.7	243.9	226.7	17.26	14.132		
4,500.0	4,492.9	4,492.0	4,475.7	8.9	10.1	80.64	-234.3	-288.6	249.9	232.2	17.67	14.143		
4,600.0	4,592.7	4,591.8	4,575.1	9.1	10.4	80.68	-240.0	-295.5	255.8	237.7	18.07	14.154		
4,700.0	4,692.6	4,691.7	4,674.5	9.3	10.6	80.70	-245.8	-302.5	261.7	243.3	18.48	14.165		
4,800.0	4,792.4	4,791.5	4,773.9	9.5	10.8	80.73	-251.5	-309.4	267.7	248.8	18.88	14.175		
4,900.0	4,892.2	4,891.3	4,873.4	9.7	11.1	80.76	-257.3	-316.3	273.6	254.3	19.29	14.185		

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 4D-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 4D-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 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	4,992.0	4,991.1	4,972.8	9.9	11.3	80.78	-263.0	-323.2	279.5	259.8	19.69	14.194		
5,100.0	5,091.8	5,091.0	5,072.2	10.1	11.5	80.81	-268.8	-330.1	285.5	265.4	20.10	14.203		
5,200.0	5,191.7	5,190.8	5,171.6	10.3	11.8	80.83	-274.5	-337.0	291.4	270.9	20.50	14.211		
5,300.0	5,291.5	5,290.6	5,271.0	10.5	12.0	80.86	-280.3	-343.9	297.3	276.4	20.91	14.219		
5,400.0	5,391.3	5,390.4	5,370.5	10.7	12.2	80.88	-286.1	-350.8	303.3	281.9	21.32	14.227		
5,500.0	5,491.1	5,490.3	5,469.9	10.9	12.5	80.90	-291.8	-357.7	309.2	287.5	21.72	14.234		
5,600.0	5,590.9	5,590.1	5,569.3	11.1	12.7	80.92	-297.6	-364.6	315.1	293.0	22.13	14.242		
5,664.9	5,655.7	5,654.9	5,633.8	11.2	12.9	80.93	-301.3	-369.1	319.0	296.6	22.39	14.246		
5,700.0	5,690.8	5,689.9	5,668.7	11.3	12.9	80.94	-303.3	-371.5	321.1	298.5	22.53	14.251		
5,800.0	5,790.7	5,792.2	5,770.6	11.5	13.2	80.77	-309.1	-378.5	327.1	304.2	22.91	14.282		
5,900.0	5,890.6	5,901.8	5,880.0	11.7	13.4	80.59	-313.4	-383.6	331.4	308.1	23.26	14.248		
6,009.4	6,000.0	6,021.9	6,000.0	11.8	13.5	-90.00	-315.0	-385.6	333.0	309.3	23.61	14.103		
6,100.0	6,090.6	6,112.5	6,090.6	12.0	13.7	-90.00	-315.0	-385.6	333.0	309.1	23.89	13.937		
6,200.0	6,190.6	6,212.5	6,190.6	12.1	13.8	-90.00	-315.0	-385.6	333.0	308.8	24.20	13.759		
6,300.0	6,290.6	6,312.5	6,290.6	12.3	13.9	-90.00	-315.0	-385.6	333.0	308.4	24.51	13.584		
6,367.8	6,358.5	6,380.3	6,358.5	12.4	14.0	-90.00	-315.0	-385.6	333.0	308.2	24.72	13.468		
6,400.0	6,390.6	6,412.4	6,390.6	12.4	14.1	-89.82	-314.0	-385.5	333.0	308.1	24.82	13.417		
6,458.4	6,449.0	6,470.2	6,447.9	12.5	14.1	-88.73	-307.6	-385.5	333.0	308.0	24.99	13.325		
6,500.0	6,490.6	6,510.5	6,487.5	12.6	14.1	-87.60	-299.7	-385.5	333.2	308.1	25.09	13.282		
6,550.0	6,540.2	6,558.4	6,533.6	12.6	14.1	-86.27	-286.8	-385.5	333.6	308.5	25.14	13.270		
6,600.0	6,589.2	6,605.7	6,577.9	12.6	14.0	-84.98	-270.3	-385.5	334.2	309.0	25.14	13.295		
6,650.0	6,637.1	6,652.5	6,620.3	12.5	14.0	-83.74	-250.4	-385.4	334.9	309.8	25.07	13.355		
6,700.0	6,683.5	6,700.0	6,661.4	12.5	13.9	-82.52	-226.8	-385.4	335.7	310.7	24.97	13.445		
6,750.0	6,728.2	6,744.6	6,698.2	12.4	13.9	-81.42	-201.6	-385.4	336.6	311.8	24.83	13.556		
6,800.0	6,770.7	6,790.0	6,733.5	12.4	13.8	-80.36	-173.1	-385.3	337.5	312.9	24.67	13.682		
6,850.0	6,810.8	6,835.0	6,766.1	12.3	13.8	-79.37	-142.2	-385.3	338.5	314.0	24.51	13.812		
6,900.0	6,848.2	6,879.6	6,796.0	12.3	13.8	-78.46	-109.1	-385.2	339.5	315.2	24.37	13.935		
6,950.0	6,882.5	6,923.9	6,823.1	12.2	13.8	-77.63	-74.0	-385.1	340.5	316.3	24.25	14.039		
7,000.0	6,913.5	6,967.9	6,847.2	12.2	13.8	-76.89	-37.1	-385.1	341.4	317.2	24.19	14.116		
7,050.0	6,941.0	7,011.7	6,868.3	12.3	13.9	-76.24	1.2	-385.0	342.3	318.1	24.22	14.130		
7,100.0	6,964.7	7,055.2	6,886.3	12.4	14.0	-75.68	40.9	-385.0	343.0	318.7	24.33	14.099		
7,150.0	6,984.5	7,100.0	6,901.6	12.5	14.1	-75.21	82.9	-384.9	343.7	319.1	24.55	14.000		
7,200.0	7,000.2	7,141.9	6,912.9	12.7	14.3	-74.86	123.2	-384.8	344.2	319.3	24.88	13.832		
7,250.0	7,011.8	7,185.0	6,921.5	13.0	14.5	-74.59	165.5	-384.7	344.5	319.2	25.34	13.595		
7,300.0	7,019.0	7,228.1	6,926.8	13.3	14.8	-74.42	208.2	-384.7	344.7	318.8	25.92	13.299		
7,350.0	7,021.9	7,271.1	6,929.0	13.7	15.0	-74.35	251.2	-384.6	344.8	318.2	26.61	12.956		
7,358.4	7,022.0	7,278.5	6,929.0	13.7	15.1	-74.35	258.5	-384.6	344.8	318.0	26.74	12.893		
7,400.0	7,022.0	7,320.0	6,929.0	14.1	15.4	-74.35	300.1	-384.5	344.7	317.3	27.42	12.573		
7,500.0	7,022.0	7,420.0	6,929.0	15.0	16.3	-74.34	400.1	-384.4	344.5	315.3	29.22	11.790		
7,600.0	7,022.0	7,520.0	6,929.0	16.1	17.3	-74.33	500.1	-384.2	344.4	313.1	31.29	11.005		
7,700.0	7,022.0	7,620.0	6,929.0	17.3	18.4	-74.33	600.1	-384.0	344.2	310.6	33.58	10.252		
7,800.0	7,022.0	7,720.0	6,929.0	18.6	19.6	-74.32	700.1	-383.8	344.1	308.0	36.03	9.549		
7,900.0	7,022.0	7,820.0	6,929.0	19.9	20.9	-74.31	800.1	-383.7	343.9	305.3	38.63	8.903		
8,000.0	7,022.0	7,920.0	6,929.0	21.3	22.2	-74.30	900.1	-383.5	343.7	302.4	41.34	8.316		
8,100.0	7,022.0	8,020.0	6,929.0	22.8	23.6	-74.30	1,000.1	-383.3	343.6	299.4	44.14	7.785		
8,200.0	7,022.0	8,120.0	6,929.0	24.3	25.0	-74.29	1,100.1	-383.2	343.4	296.4	47.01	7.305		
8,300.0	7,022.0	8,220.0	6,929.0	25.8	26.5	-74.28	1,200.1	-383.0	343.3	293.3	49.95	6.872		
8,400.0	7,022.0	8,320.0	6,929.0	27.4	28.0	-74.27	1,300.1	-382.8	343.1	290.2	52.94	6.481		
8,500.0	7,022.0	8,420.0	6,929.0	28.9	29.6	-74.26	1,400.1	-382.7	342.9	287.0	55.98	6.126		
8,600.0	7,022.0	8,520.0	6,929.0	30.5	31.1	-74.26	1,500.1	-382.5	342.8	283.7	59.05	5.805		
8,700.0	7,022.0	8,620.0	6,929.0	32.1	32.7	-74.25	1,600.1	-382.3	342.6	280.5	62.15	5.513		
8,800.0	7,022.0	8,720.0	6,929.0	33.8	34.3	-74.24	1,700.1	-382.2	342.5	277.2	65.28	5.246		

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 4D-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 4D-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						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	7,022.0	8,820.0	6,929.0	35.4	35.9	-74.23	1,800.1	-382.0	342.3	273.9	68.43	5.002		
9,000.0	7,022.0	8,920.0	6,929.0	37.1	37.6	-74.23	1,900.1	-381.8	342.1	270.5	71.61	4.778		
9,100.0	7,022.0	9,020.0	6,929.0	38.7	39.2	-74.22	2,000.1	-381.7	342.0	267.2	74.80	4.572		
9,200.0	7,022.0	9,120.0	6,929.0	40.4	40.9	-74.21	2,100.1	-381.5	341.8	263.8	78.00	4.382		
9,300.0	7,022.0	9,220.0	6,929.0	42.1	42.5	-74.20	2,200.1	-381.3	341.6	260.4	81.22	4.206		
9,400.0	7,022.0	9,320.0	6,929.0	43.7	44.2	-74.20	2,300.1	-381.2	341.5	257.0	84.46	4.043		
9,500.0	7,022.0	9,420.0	6,929.0	45.4	45.8	-74.19	2,400.1	-381.0	341.3	253.6	87.70	3.892		
9,600.0	7,022.0	9,520.0	6,929.0	47.1	47.5	-74.18	2,500.1	-380.8	341.2	250.2	90.95	3.751		
9,700.0	7,022.0	9,620.0	6,929.0	48.8	49.2	-74.17	2,600.1	-380.7	341.0	246.8	94.21	3.620		
9,800.0	7,022.0	9,720.0	6,929.0	50.5	50.9	-74.17	2,700.1	-380.5	340.8	243.4	97.48	3.497		
9,900.0	7,022.0	9,820.0	6,929.0	52.2	52.6	-74.16	2,800.1	-380.3	340.7	239.9	100.75	3.381		
10,000.0	7,022.0	9,920.0	6,929.0	53.9	54.3	-74.15	2,900.1	-380.2	340.5	236.5	104.03	3.273		
10,100.0	7,022.0	10,020.0	6,929.0	55.6	56.0	-74.14	3,000.1	-380.0	340.4	233.0	107.31	3.172		
10,200.0	7,022.0	10,120.0	6,929.0	57.3	57.7	-74.14	3,100.1	-379.8	340.2	229.6	110.61	3.076		
10,300.0	7,022.0	10,220.0	6,929.0	59.1	59.4	-74.13	3,200.1	-379.7	340.0	226.1	113.90	2.985		
10,400.0	7,022.0	10,320.0	6,929.0	60.8	61.1	-74.12	3,300.1	-379.5	339.9	222.7	117.20	2.900		
10,500.0	7,022.0	10,420.0	6,929.0	62.5	62.8	-74.11	3,400.1	-379.3	339.7	219.2	120.50	2.819		
10,600.0	7,022.0	10,520.0	6,929.0	64.2	64.5	-74.10	3,500.1	-379.1	339.6	215.7	123.81	2.743		
10,700.0	7,022.0	10,620.0	6,929.0	65.9	66.2	-74.10	3,600.1	-379.0	339.4	212.3	127.12	2.670		
10,800.0	7,022.0	10,720.0	6,929.0	67.7	67.9	-74.09	3,700.1	-378.8	339.2	208.8	130.43	2.601		
10,900.0	7,022.0	10,820.0	6,929.0	69.4	69.7	-74.08	3,800.1	-378.6	339.1	205.3	133.75	2.535		
11,000.0	7,022.0	10,920.0	6,929.0	71.1	71.4	-74.07	3,900.1	-378.5	338.9	201.8	137.06	2.473		
11,100.0	7,022.0	11,020.0	6,929.0	72.8	73.1	-74.07	4,000.1	-378.3	338.8	198.4	140.38	2.413		
11,200.0	7,022.0	11,120.0	6,929.0	74.6	74.8	-74.06	4,100.1	-378.1	338.6	194.9	143.70	2.356		
11,300.0	7,022.0	11,220.0	6,929.0	76.3	76.5	-74.05	4,200.1	-378.0	338.4	191.4	147.03	2.302		
11,400.0	7,022.0	11,320.0	6,929.0	78.0	78.3	-74.04	4,300.1	-377.8	338.3	187.9	150.35	2.250		
11,500.0	7,022.0	11,420.0	6,929.0	79.8	80.0	-74.03	4,400.1	-377.6	338.1	184.4	153.68	2.200		
11,570.5	7,022.0	11,490.5	6,929.0	81.0	81.2	-74.03	4,470.6	-377.5	338.0	182.0	156.03	2.166		
11,590.6	7,022.0	11,508.6	6,929.0	81.3	81.5	-74.03	4,488.7	-377.5	338.0	181.3	156.66	2.157 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		
0.0	0.0	0.0	0.0	0.0	0.0	93.20	-0.4	7.3	7.3					
100.0	100.0	100.0	100.0	0.1	0.1	93.20	-0.4	7.3	7.3	7.0	0.24	29.805		
200.0	200.0	200.0	200.0	0.3	0.3	93.20	-0.4	7.3	7.3	6.7	0.59	12.273		
300.0	300.0	300.0	300.0	0.5	0.5	93.20	-0.4	7.3	7.3	6.3	0.94	7.727		
350.0	350.0	350.0	350.0	0.6	0.6	93.20	-0.4	7.3	7.3	6.2	1.12	6.520 CC		
400.0	400.0	400.0	400.0	0.6	0.6	-97.98	-0.4	7.3	7.3	6.0	1.29	5.660 ES		
500.0	500.0	499.9	499.9	0.8	0.8	-105.47	-1.1	7.8	8.2	6.6	1.64	4.989		
600.0	599.9	599.8	599.8	1.0	1.0	-111.82	-3.1	9.5	10.6	8.6	2.00	5.316		
694.5	694.3	694.1	694.0	1.2	1.2	-115.48	-6.2	12.1	14.3	12.0	2.35	6.105		
700.0	699.8	699.6	699.5	1.2	1.2	-115.63	-6.5	12.2	14.6	12.2	2.37	6.161		
800.0	799.6	799.4	799.1	1.4	1.4	-115.08	-11.2	16.1	19.6	16.8	2.75	7.129		
900.0	899.4	899.1	898.5	1.6	1.6	-111.55	-17.0	21.0	25.3	22.1	3.14	8.052		
1,000.0	999.2	998.9	998.0	1.8	1.8	-108.90	-23.1	26.0	31.1	27.6	3.53	8.813		
1,100.0	1,099.1	1,098.8	1,097.5	2.0	2.0	-107.10	-29.2	31.0	37.1	33.1	3.93	9.428		
1,200.0	1,198.9	1,198.6	1,197.0	2.2	2.2	-105.80	-35.3	36.0	43.0	38.7	4.33	9.932		
1,300.0	1,298.7	1,298.4	1,296.5	2.4	2.4	-104.81	-41.4	41.0	49.0	44.2	4.73	10.352		
1,400.0	1,398.5	1,398.2	1,396.0	2.6	2.6	-104.04	-47.5	46.0	54.9	49.8	5.13	10.706		
1,500.0	1,498.3	1,498.0	1,495.6	2.8	2.9	-103.42	-53.6	51.0	60.9	55.4	5.53	11.010		
1,600.0	1,598.2	1,597.9	1,595.1	3.0	3.1	-102.91	-59.7	56.0	66.9	60.9	5.93	11.272		
1,700.0	1,698.0	1,697.7	1,694.6	3.2	3.3	-102.48	-65.8	61.0	72.9	66.5	6.34	11.500		
1,800.0	1,797.8	1,797.5	1,794.1	3.4	3.5	-102.12	-71.9	66.0	78.8	72.1	6.74	11.701		
1,900.0	1,897.6	1,897.3	1,893.6	3.6	3.7	-101.81	-77.9	71.0	84.8	77.7	7.14	11.880		
2,000.0	1,997.4	1,997.1	1,993.1	3.8	4.0	-101.54	-84.0	76.0	90.8	83.3	7.55	12.039		
2,100.0	2,097.3	2,097.0	2,092.6	4.0	4.2	-101.30	-90.1	81.0	96.8	88.9	7.95	12.181		
2,200.0	2,197.1	2,196.8	2,192.1	4.2	4.4	-101.09	-96.2	86.1	102.8	94.5	8.35	12.310		
2,300.0	2,296.9	2,296.6	2,291.6	4.4	4.6	-100.91	-102.3	91.1	108.8	100.1	8.76	12.427		
2,400.0	2,396.7	2,396.4	2,391.1	4.6	4.8	-100.74	-108.4	96.1	114.8	105.7	9.16	12.534		
2,500.0	2,496.5	2,496.2	2,490.6	4.8	5.1	-100.59	-114.5	101.1	120.8	111.3	9.57	12.631		
2,600.0	2,596.3	2,596.1	2,590.1	5.0	5.3	-100.45	-120.6	106.1	126.8	116.9	9.97	12.721		
2,700.0	2,696.2	2,695.9	2,689.6	5.2	5.5	-100.33	-126.7	111.1	132.8	122.4	10.37	12.803		
2,800.0	2,796.0	2,795.7	2,789.1	5.4	5.7	-100.22	-132.8	116.1	138.8	128.0	10.78	12.879		
2,900.0	2,895.8	2,895.5	2,888.7	5.6	5.9	-100.12	-138.9	121.1	144.8	133.6	11.18	12.950		
3,000.0	2,995.6	2,995.3	2,988.2	5.8	6.2	-100.02	-144.9	126.1	150.8	139.2	11.59	13.015		
3,100.0	3,095.4	3,095.1	3,087.7	6.0	6.4	-99.93	-151.0	131.1	156.8	144.8	11.99	13.076		
3,200.0	3,195.3	3,195.0	3,187.2	6.2	6.6	-99.85	-157.1	136.1	162.8	150.4	12.40	13.134		
3,300.0	3,295.1	3,294.8	3,286.7	6.4	6.8	-99.78	-163.2	141.1	168.8	156.0	12.80	13.187		
3,400.0	3,394.9	3,394.6	3,386.2	6.6	7.0	-99.70	-169.3	146.1	174.8	161.6	13.21	13.237		
3,500.0	3,494.7	3,494.4	3,485.7	6.8	7.3	-99.64	-175.4	151.1	180.8	167.2	13.61	13.284		
3,600.0	3,594.5	3,594.2	3,585.2	7.0	7.5	-99.58	-181.5	156.2	186.9	172.8	14.02	13.329		
3,700.0	3,694.4	3,694.1	3,684.7	7.2	7.7	-99.52	-187.6	161.2	192.9	178.4	14.42	13.371		
3,800.0	3,794.2	3,793.9	3,784.2	7.4	7.9	-99.47	-193.7	166.2	198.9	184.0	14.83	13.410		
3,900.0	3,894.0	3,893.7	3,883.7	7.6	8.1	-99.41	-199.8	171.2	204.9	189.6	15.23	13.448		
4,000.0	3,993.8	3,993.5	3,983.2	7.9	8.4	-99.37	-205.8	176.2	210.9	195.2	15.64	13.483		
4,100.0	4,093.6	4,093.3	4,082.7	8.1	8.6	-99.32	-211.9	181.2	216.9	200.8	16.04	13.517		
4,200.0	4,193.5	4,193.2	4,182.3	8.3	8.8	-99.28	-218.0	186.2	222.9	206.4	16.45	13.549		
4,300.0	4,293.3	4,293.0	4,281.8	8.5	9.0	-99.24	-224.1	191.2	228.9	212.0	16.86	13.580		
4,400.0	4,393.1	4,392.8	4,381.3	8.7	9.3	-99.20	-230.2	196.2	234.9	217.6	17.26	13.609		
4,500.0	4,492.9	4,492.6	4,480.8	8.9	9.5	-99.16	-236.3	201.2	240.9	223.2	17.67	13.636		
4,600.0	4,592.7	4,592.4	4,580.3	9.1	9.7	-99.13	-242.4	206.2	246.9	228.8	18.07	13.663		
4,700.0	4,692.6	4,692.3	4,679.8	9.3	9.9	-99.09	-248.5	211.2	252.9	234.4	18.48	13.688		
4,800.0	4,792.4	4,792.1	4,779.3	9.5	10.1	-99.06	-254.6	216.2	258.9	240.0	18.88	13.712		
4,900.0	4,892.2	4,891.9	4,878.8	9.7	10.4	-99.03	-260.7	221.3	264.9	245.6	19.29	13.736		

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 4D-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 4D-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		
5,000.0	4,992.0	4,991.7	4,978.3	9.9	10.6	-99.00	-266.7	226.3	270.9	251.2	19.69	13.758		
5,100.0	5,091.8	5,091.5	5,077.8	10.1	10.8	-98.98	-272.8	231.3	276.9	256.8	20.10	13.779		
5,200.0	5,191.7	5,191.4	5,177.3	10.3	11.0	-98.95	-278.9	236.3	282.9	262.4	20.50	13.800		
5,300.0	5,291.5	5,291.2	5,276.8	10.5	11.3	-98.92	-285.0	241.3	288.9	268.0	20.91	13.819		
5,400.0	5,391.3	5,391.0	5,376.3	10.7	11.5	-98.90	-291.1	246.3	295.0	273.6	21.31	13.838		
5,500.0	5,491.1	5,490.8	5,475.9	10.9	11.7	-98.88	-297.2	251.3	301.0	279.2	21.72	13.856		
5,600.0	5,590.9	5,591.6	5,576.4	11.1	11.9	-98.86	-303.3	256.3	306.9	284.8	22.13	13.871		
5,664.9	5,655.7	5,658.8	5,643.3	11.2	12.1	-98.95	-306.8	259.2	310.4	288.0	22.39	13.863		
5,700.0	5,690.8	5,695.1	5,679.6	11.3	12.1	-99.04	-308.5	260.6	312.0	289.5	22.53	13.849		
5,800.0	5,790.7	5,798.6	5,783.0	11.5	12.3	-99.24	-312.2	263.7	315.7	292.8	22.90	13.785		
5,900.0	5,890.6	5,902.3	5,886.6	11.7	12.5	-99.36	-314.5	265.6	318.0	294.8	23.25	13.678		
6,009.4	6,000.0	6,015.7	6,000.0	11.8	12.6	90.07	-315.4	266.3	318.9	295.3	23.60	13.513		
6,100.0	6,090.6	6,106.3	6,090.6	12.0	12.8	90.07	-315.4	266.3	318.9	295.0	23.88	13.354		
6,200.0	6,190.6	6,206.3	6,190.6	12.1	12.9	90.07	-315.4	266.3	318.9	294.7	24.19	13.183		
6,300.0	6,290.6	6,306.3	6,290.6	12.3	13.1	90.07	-315.4	266.3	318.9	294.4	24.50	13.015		
6,400.0	6,390.6	6,406.3	6,390.6	12.4	13.2	90.07	-315.4	266.3	318.9	294.1	24.81	12.851		
6,458.4	6,449.0	6,464.7	6,449.0	12.5	13.3	90.07	-315.4	266.3	318.9	293.9	25.00	12.757		
6,459.3	6,449.9	6,465.6	6,449.9	12.5	13.3	90.07	-315.4	266.3	318.9	293.9	25.00	12.756		
6,500.0	6,490.6	6,506.2	6,490.6	12.6	13.4	90.34	-315.4	266.3	318.9	293.8	25.10	12.707		
6,550.0	6,540.2	6,555.9	6,540.2	12.6	13.4	91.37	-315.4	266.3	319.0	293.8	25.16	12.676		
6,600.0	6,589.2	6,604.8	6,589.2	12.6	13.5	93.10	-315.4	266.3	319.4	294.2	25.18	12.685		
6,650.0	6,637.1	6,655.4	6,639.7	12.5	13.6	95.21	-313.2	266.3	320.3	295.2	25.12	12.749		
6,700.0	6,683.5	6,707.2	6,691.0	12.5	13.6	97.30	-306.3	266.3	321.6	296.6	25.01	12.858		
6,750.0	6,728.2	6,760.2	6,742.7	12.4	13.6	99.35	-294.4	266.3	323.4	298.5	24.86	13.008		
6,800.0	6,770.7	6,814.5	6,794.2	12.4	13.5	101.32	-277.4	266.3	325.5	300.9	24.68	13.191		
6,850.0	6,810.8	6,870.2	6,845.1	12.3	13.5	103.22	-255.0	266.3	328.0	303.5	24.48	13.398		
6,900.0	6,848.2	6,927.2	6,894.8	12.3	13.4	105.01	-227.0	266.3	330.6	306.3	24.28	13.618		
6,950.0	6,882.5	6,985.6	6,942.5	12.2	13.3	106.67	-193.3	266.3	333.4	309.3	24.10	13.836		
7,000.0	6,913.5	7,045.4	6,987.6	12.2	13.3	108.20	-154.1	266.3	336.2	312.2	23.95	14.035		
7,050.0	6,941.0	7,106.6	7,029.1	12.3	13.2	109.57	-109.3	266.3	338.9	315.0	23.88	14.193		
7,100.0	6,964.7	7,168.9	7,066.4	12.4	13.3	110.77	-59.3	266.3	341.4	317.5	23.90	14.287		
7,150.0	6,984.5	7,232.4	7,098.5	12.5	13.4	111.78	-4.6	266.3	343.7	319.7	24.01	14.313		
7,200.0	7,000.2	7,296.9	7,124.7	12.7	13.5	112.58	54.3	266.3	345.5	321.3	24.27	14.237		
7,250.0	7,011.8	7,362.1	7,144.3	13.0	13.8	113.18	116.5	266.3	347.0	322.3	24.67	14.062		
7,300.0	7,019.0	7,427.9	7,156.8	13.3	14.1	113.55	181.1	266.3	347.9	322.6	25.22	13.791		
7,350.0	7,021.9	7,494.0	7,161.9	13.7	14.6	113.70	246.9	266.3	348.2	322.3	25.92	13.434		
7,358.4	7,022.0	7,505.1	7,162.0	13.7	14.7	113.70	258.0	266.3	348.2	322.2	26.05	13.368		
7,400.0	7,022.0	7,546.6	7,162.0	14.1	15.0	113.70	299.5	266.3	348.2	321.5	26.70	13.044		
7,500.0	7,022.0	7,646.6	7,162.0	15.0	15.9	113.70	399.5	266.3	348.2	319.8	28.42	12.255		
7,600.0	7,022.0	7,746.6	7,162.0	16.1	16.9	113.70	499.5	266.3	348.2	317.9	30.38	11.464		
7,700.0	7,022.0	7,846.6	7,162.0	17.3	18.0	113.70	599.5	266.3	348.2	315.7	32.54	10.702		
7,800.0	7,022.0	7,946.6	7,162.0	18.6	19.3	113.70	699.5	266.3	348.2	313.4	34.86	9.988		
7,900.0	7,022.0	8,046.6	7,162.0	19.9	20.6	113.70	799.5	266.3	348.2	310.9	37.32	9.330		
8,000.0	7,022.0	8,146.6	7,162.0	21.3	21.9	113.70	899.5	266.3	348.2	308.3	39.89	8.730		
8,100.0	7,022.0	8,246.6	7,162.0	22.8	23.4	113.70	999.5	266.3	348.2	305.7	42.54	8.185		
8,200.0	7,022.0	8,346.6	7,162.0	24.3	24.8	113.70	1,099.5	266.3	348.2	303.0	45.27	7.692		
8,300.0	7,022.0	8,446.6	7,162.0	25.8	26.3	113.70	1,199.5	266.3	348.2	300.2	48.06	7.246		
8,400.0	7,022.0	8,546.6	7,162.0	27.4	27.9	113.70	1,299.5	266.3	348.2	297.3	50.90	6.842		
8,500.0	7,022.0	8,646.6	7,162.0	28.9	29.4	113.70	1,399.5	266.3	348.2	294.4	53.78	6.475		
8,600.0	7,022.0	8,746.6	7,162.0	30.5	31.0	113.70	1,499.5	266.3	348.2	291.5	56.69	6.142		
8,700.0	7,022.0	8,846.6	7,162.0	32.1	32.6	113.70	1,599.5	266.3	348.2	288.6	59.64	5.838		
8,800.0	7,022.0	8,946.6	7,162.0	33.8	34.2	113.70	1,699.5	266.3	348.2	285.6	62.62	5.561		

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 4D-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 4D-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				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		
8,900.0	7,022.0	9,046.6	7,162.0	35.4	35.8	113.70	1,799.5	266.3	348.2	282.6	65.61	5.307		
9,000.0	7,022.0	9,146.6	7,162.0	37.1	37.4	113.70	1,899.5	266.3	348.2	279.6	68.63	5.074		
9,100.0	7,022.0	9,246.6	7,162.0	38.7	39.1	113.70	1,999.5	266.3	348.2	276.6	71.67	4.859		
9,200.0	7,022.0	9,346.6	7,162.0	40.4	40.7	113.70	2,099.5	266.3	348.2	273.5	74.72	4.661		
9,300.0	7,022.0	9,446.6	7,162.0	42.1	42.4	113.70	2,199.5	266.3	348.2	270.4	77.78	4.477		
9,400.0	7,022.0	9,546.6	7,162.0	43.7	44.1	113.70	2,299.5	266.3	348.2	267.4	80.85	4.307		
9,500.0	7,022.0	9,646.6	7,162.0	45.4	45.7	113.70	2,399.5	266.3	348.2	264.3	83.94	4.148		
9,600.0	7,022.0	9,746.6	7,162.0	47.1	47.4	113.70	2,499.5	266.3	348.2	261.2	87.03	4.001		
9,700.0	7,022.0	9,846.6	7,162.0	48.8	49.1	113.70	2,599.5	266.3	348.2	258.1	90.14	3.863		
9,800.0	7,022.0	9,946.6	7,162.0	50.5	50.8	113.70	2,699.5	266.3	348.2	255.0	93.25	3.734		
9,900.0	7,022.0	10,046.6	7,162.0	52.2	52.5	113.70	2,799.5	266.3	348.2	251.8	96.37	3.613		
10,000.0	7,022.0	10,146.6	7,162.0	53.9	54.2	113.70	2,899.5	266.3	348.2	248.7	99.49	3.500		
10,100.0	7,022.0	10,246.6	7,162.0	55.6	55.9	113.70	2,999.5	266.3	348.2	245.6	102.62	3.393		
10,200.0	7,022.0	10,346.6	7,162.0	57.3	57.6	113.70	3,099.5	266.3	348.2	242.5	105.75	3.293		
10,300.0	7,022.0	10,446.6	7,162.0	59.1	59.3	113.70	3,199.5	266.3	348.2	239.3	108.89	3.198		
10,400.0	7,022.0	10,546.6	7,162.0	60.8	61.0	113.70	3,299.5	266.3	348.2	236.2	112.04	3.108		
10,500.0	7,022.0	10,646.6	7,162.0	62.5	62.7	113.70	3,399.5	266.3	348.2	233.0	115.19	3.023		
10,600.0	7,022.0	10,746.6	7,162.0	64.2	64.5	113.70	3,499.5	266.3	348.2	229.9	118.34	2.942		
10,700.0	7,022.0	10,846.6	7,162.0	65.9	66.2	113.70	3,599.5	266.3	348.2	226.7	121.49	2.866		
10,800.0	7,022.0	10,946.6	7,162.0	67.7	67.9	113.70	3,699.5	266.3	348.2	223.6	124.65	2.793		
10,900.0	7,022.0	11,046.6	7,162.0	69.4	69.6	113.70	3,799.5	266.3	348.2	220.4	127.81	2.724		
11,000.0	7,022.0	11,146.6	7,162.0	71.1	71.3	113.70	3,899.5	266.3	348.2	217.2	130.98	2.659		
11,100.0	7,022.0	11,246.6	7,162.0	72.8	73.4	113.94	4,018.9	262.7	345.5	211.3	134.22	2.574		
11,200.0	7,022.0	11,346.6	7,162.0	74.6	75.4	114.71	4,137.6	251.6	337.0	200.1	136.89	2.462		
11,300.0	7,022.0	11,446.6	7,162.0	76.3	77.4	116.07	4,253.5	233.5	323.0	184.2	138.80	2.327		
11,400.0	7,022.0	11,546.6	7,162.0	78.0	79.3	118.17	4,365.5	208.8	303.8	164.1	139.62	2.176		
11,500.0	7,022.0	11,646.6	7,162.0	79.8	81.1	121.22	4,472.5	178.4	279.8	141.0	138.79	2.016		
11,590.6	7,022.0	11,747.9	7,162.0	81.3	81.4	121.88	4,490.9	172.5	265.1	125.6	139.49	1.900 SF		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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	91.50	-0.4	14.8	14.8						
100.0	100.0	100.0	100.0	0.1	0.1	91.50	-0.4	14.8	14.8	14.6	0.24	60.683			
200.0	200.0	200.0	200.0	0.3	0.3	91.50	-0.4	14.8	14.8	14.2	0.59	24.987			
300.0	300.0	300.0	300.0	0.5	0.5	91.50	-0.4	14.8	14.8	13.9	0.94	15.733			
350.0	350.0	350.0	350.0	0.6	0.6	91.50	-0.4	14.8	14.8	13.7	1.12	13.274 CC			
400.0	400.0	400.0	400.0	0.6	0.6	-98.81	-0.4	14.8	14.9	13.6	1.29	11.505 ES			
500.0	500.0	499.9	499.9	0.8	0.8	-104.72	-0.5	15.0	15.4	13.7	1.64	9.366			
600.0	599.9	599.7	599.6	1.0	1.0	-111.69	-1.6	16.3	17.6	15.6	2.00	8.830			
694.5	694.3	693.8	693.8	1.2	1.2	-116.99	-3.7	18.8	21.5	19.2	2.34	9.208			
700.0	699.8	699.3	699.3	1.2	1.2	-117.25	-3.8	19.0	21.8	19.5	2.36	9.248			
800.0	799.6	799.0	798.8	1.4	1.4	-119.23	-7.1	23.0	27.4	24.7	2.73	10.034			
900.0	899.4	898.5	898.0	1.6	1.6	-117.98	-11.5	28.4	33.9	30.8	3.12	10.886			
1,000.0	999.2	997.8	997.0	1.8	1.8	-115.13	-17.0	35.0	41.4	37.9	3.51	11.794			
1,100.0	1,099.1	1,097.4	1,096.0	2.0	2.0	-112.05	-23.3	42.6	49.6	45.7	3.91	12.705			
1,200.0	1,198.9	1,197.0	1,195.2	2.2	2.2	-109.82	-29.5	50.2	58.0	53.7	4.31	13.471			
1,300.0	1,298.7	1,296.6	1,294.3	2.4	2.4	-108.16	-35.8	57.8	66.5	61.8	4.71	14.118			
1,400.0	1,398.5	1,396.2	1,393.5	2.6	2.7	-106.87	-42.1	65.4	75.0	69.9	5.11	14.670			
1,500.0	1,498.3	1,495.9	1,492.6	2.8	2.9	-105.85	-48.3	73.1	83.5	78.0	5.51	15.145			
1,600.0	1,598.2	1,595.5	1,591.7	3.0	3.2	-105.01	-54.6	80.7	92.0	86.1	5.91	15.558			
1,700.0	1,698.0	1,695.1	1,690.9	3.2	3.4	-104.32	-60.9	88.3	100.6	94.3	6.32	15.920			
1,800.0	1,797.8	1,794.7	1,790.0	3.4	3.6	-103.74	-67.1	95.9	109.2	102.4	6.72	16.239			
1,900.0	1,897.6	1,894.4	1,889.1	3.6	3.9	-103.24	-73.4	103.5	117.7	110.6	7.12	16.524			
2,000.0	1,997.4	1,994.0	1,988.3	3.8	4.1	-102.81	-79.7	111.1	126.3	118.8	7.53	16.778			
2,100.0	2,097.3	2,093.6	2,087.4	4.0	4.3	-102.43	-86.0	118.7	134.9	127.0	7.93	17.007			
2,200.0	2,197.1	2,193.3	2,186.6	4.2	4.6	-102.10	-92.2	126.3	143.5	135.2	8.34	17.214			
2,300.0	2,296.9	2,292.9	2,285.7	4.4	4.8	-101.81	-98.5	133.9	152.1	143.4	8.74	17.402			
2,400.0	2,396.7	2,392.5	2,384.8	4.6	5.1	-101.54	-104.8	141.6	160.7	151.6	9.15	17.574			
2,500.0	2,496.5	2,492.1	2,484.0	4.8	5.3	-101.31	-111.0	149.2	169.3	159.8	9.55	17.731			
2,600.0	2,596.3	2,591.8	2,583.1	5.0	5.6	-101.10	-117.3	156.8	177.9	168.0	9.95	17.876			
2,700.0	2,696.2	2,691.4	2,682.2	5.2	5.8	-100.90	-123.6	164.4	186.6	176.2	10.36	18.010			
2,800.0	2,796.0	2,791.0	2,781.4	5.4	6.0	-100.73	-129.8	172.0	195.2	184.4	10.76	18.133			
2,900.0	2,895.8	2,890.6	2,880.5	5.6	6.3	-100.56	-136.1	179.6	203.8	192.6	11.17	18.248			
3,000.0	2,995.6	2,990.3	2,979.7	5.8	6.5	-100.42	-142.4	187.2	212.4	200.8	11.57	18.354			
3,100.0	3,095.4	3,089.9	3,078.8	6.0	6.8	-100.28	-148.6	194.8	221.0	209.0	11.98	18.454			
3,200.0	3,195.3	3,189.5	3,177.9	6.2	7.0	-100.15	-154.9	202.5	229.6	217.3	12.38	18.547			
3,300.0	3,295.1	3,289.1	3,277.1	6.4	7.3	-100.04	-161.2	210.1	238.3	225.5	12.79	18.634			
3,400.0	3,394.9	3,388.8	3,376.2	6.6	7.5	-99.93	-167.5	217.7	246.9	233.7	13.19	18.716			
3,500.0	3,494.7	3,488.4	3,475.3	6.8	7.7	-99.83	-173.7	225.3	255.5	241.9	13.60	18.793			
3,600.0	3,594.5	3,588.0	3,574.5	7.0	8.0	-99.73	-180.0	232.9	264.1	250.1	14.00	18.865			
3,700.0	3,694.4	3,687.7	3,673.6	7.2	8.2	-99.64	-186.3	240.5	272.8	258.4	14.41	18.934			
3,800.0	3,794.2	3,787.3	3,772.7	7.4	8.5	-99.56	-192.5	248.1	281.4	266.6	14.81	18.998			
3,900.0	3,894.0	3,886.9	3,871.9	7.6	8.7	-99.48	-198.8	255.7	290.0	274.8	15.22	19.060			
4,000.0	3,993.8	3,986.5	3,971.0	7.9	9.0	-99.41	-205.1	263.4	298.6	283.0	15.62	19.118			
4,100.0	4,093.6	4,086.2	4,070.2	8.1	9.2	-99.34	-211.3	271.0	307.3	291.2	16.03	19.173			
4,200.0	4,193.5	4,185.8	4,169.3	8.3	9.5	-99.27	-217.6	278.6	315.9	299.5	16.43	19.225			
4,300.0	4,293.3	4,285.4	4,268.4	8.5	9.7	-99.21	-223.9	286.2	324.5	307.7	16.84	19.275			
4,400.0	4,393.1	4,385.0	4,367.6	8.7	9.9	-99.15	-230.1	293.8	333.2	315.9	17.24	19.323			
4,500.0	4,492.9	4,484.7	4,466.7	8.9	10.2	-99.09	-236.4	301.4	341.8	324.1	17.65	19.368			
4,600.0	4,592.7	4,584.3	4,565.8	9.1	10.4	-99.04	-242.7	309.0	350.4	332.4	18.05	19.412			
4,700.0	4,692.6	4,683.9	4,665.0	9.3	10.7	-98.99	-248.9	316.6	359.0	340.6	18.46	19.453			
4,800.0	4,792.4	4,783.5	4,764.1	9.5	10.9	-98.94	-255.2	324.3	367.7	348.8	18.86	19.493			
4,900.0	4,892.2	4,883.2	4,863.3	9.7	11.2	-98.89	-261.5	331.9	376.3	357.0	19.27	19.531			

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 4D-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 4D-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: 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	4,992.0	4,982.8	4,962.4	9.9	11.4	-98.85	-267.8	339.5	384.9	365.3	19.67	19.567		
5,100.0	5,091.8	5,082.4	5,061.5	10.1	11.7	-98.81	-274.0	347.1	393.6	373.5	20.08	19.602		
5,200.0	5,191.7	5,182.0	5,160.7	10.3	11.9	-98.76	-280.3	354.7	402.2	381.7	20.48	19.636		
5,300.0	5,291.5	5,281.7	5,259.8	10.5	12.1	-98.73	-286.6	362.3	410.8	389.9	20.89	19.668		
5,400.0	5,391.3	5,381.3	5,358.9	10.7	12.4	-98.69	-292.8	369.9	419.5	398.2	21.29	19.700		
5,500.0	5,491.1	5,482.5	5,459.6	10.9	12.6	-98.66	-299.2	377.6	428.1	406.3	21.70	19.725		
5,600.0	5,590.9	5,588.4	5,565.2	11.1	12.9	-98.74	-304.9	384.6	435.6	413.5	22.11	19.700		
5,664.9	5,655.7	5,657.3	5,633.9	11.2	13.0	-98.88	-307.9	388.3	439.7	417.4	22.38	19.651		
5,700.0	5,690.8	5,694.5	5,671.1	11.3	13.1	-98.99	-309.4	390.0	441.7	419.2	22.52	19.613		
5,800.0	5,790.7	5,800.8	5,777.2	11.5	13.3	-99.23	-312.6	394.0	446.2	423.3	22.90	19.481		
5,900.0	5,890.6	5,907.2	5,883.6	11.7	13.4	-99.38	-314.6	396.4	448.9	425.6	23.25	19.303		
6,009.4	6,000.0	6,023.7	6,000.0	11.8	13.6	90.05	-315.4	397.3	449.9	426.3	23.61	19.058		
6,100.0	6,090.6	6,114.3	6,090.6	12.0	13.7	90.05	-315.4	397.3	449.9	426.0	23.89	18.834		
6,200.0	6,190.6	6,214.3	6,190.6	12.1	13.8	90.05	-315.4	397.3	449.9	425.7	24.20	18.592		
6,300.0	6,290.6	6,314.3	6,290.6	12.3	14.0	90.05	-315.4	397.3	449.9	425.4	24.51	18.356		
6,368.7	6,359.3	6,383.0	6,359.3	12.4	14.1	90.05	-315.4	397.3	449.9	425.2	24.72	18.197		
6,400.0	6,390.6	6,414.2	6,390.6	12.4	14.1	89.91	-314.3	397.3	449.9	425.1	24.81	18.135		
6,458.4	6,449.0	6,471.9	6,447.9	12.5	14.1	89.09	-307.8	397.3	450.0	425.0	24.96	18.028		
6,500.0	6,490.6	6,512.2	6,487.3	12.6	14.1	88.24	-299.9	397.3	450.1	425.1	25.03	17.984		
6,550.0	6,540.2	6,560.1	6,533.4	12.6	14.1	87.25	-286.9	397.3	450.5	425.4	25.06	17.978		
6,600.0	6,589.2	6,607.4	6,577.7	12.6	14.1	86.28	-270.4	397.3	450.9	425.9	25.03	18.016		
6,650.0	6,637.1	6,654.1	6,620.0	12.5	14.0	85.35	-250.5	397.3	451.4	426.5	24.95	18.092		
6,700.0	6,683.5	6,700.0	6,659.8	12.5	13.9	84.46	-227.6	397.3	452.1	427.2	24.84	18.197		
6,750.0	6,728.2	6,746.0	6,697.7	12.4	13.9	83.60	-201.6	397.3	452.8	428.1	24.71	18.325		
6,800.0	6,770.7	6,791.4	6,732.9	12.4	13.8	82.80	-173.1	397.3	453.6	429.0	24.57	18.461		
6,850.0	6,810.8	6,836.3	6,765.5	12.3	13.8	82.05	-142.2	397.3	454.3	429.9	24.43	18.595		
6,900.0	6,848.2	6,880.8	6,795.3	12.3	13.8	81.36	-109.1	397.3	455.2	430.8	24.32	18.711		
6,950.0	6,882.5	6,925.1	6,822.3	12.2	13.8	80.72	-74.0	397.3	455.9	431.7	24.26	18.796		
7,000.0	6,913.5	6,969.0	6,846.3	12.2	13.8	80.16	-37.3	397.3	456.7	432.5	24.24	18.841		
7,050.0	6,941.0	7,012.7	6,867.4	12.3	13.9	79.66	1.1	397.3	457.4	433.1	24.32	18.807		
7,100.0	6,964.7	7,056.2	6,885.4	12.4	14.0	79.23	40.6	397.3	458.0	433.5	24.47	18.716		
7,150.0	6,984.5	7,100.0	6,900.4	12.5	14.2	78.87	81.8	397.3	458.6	433.8	24.73	18.544		
7,200.0	7,000.2	7,142.7	6,911.9	12.7	14.3	78.59	122.9	397.3	459.0	433.9	25.10	18.289		
7,250.0	7,011.8	7,185.8	6,920.5	13.0	14.5	78.39	165.1	397.3	459.3	433.8	25.58	17.959		
7,300.0	7,019.0	7,228.8	6,925.8	13.3	14.8	78.26	207.8	397.3	459.5	433.4	26.16	17.564		
7,350.0	7,021.9	7,271.8	6,928.0	13.7	15.1	78.20	250.7	397.3	459.6	432.8	26.85	17.118		
7,358.4	7,022.0	7,279.1	6,928.0	13.7	15.1	78.20	258.0	397.3	459.6	432.7	26.98	17.038		
7,400.0	7,022.0	7,320.6	6,928.0	14.1	15.4	78.20	299.5	397.3	459.6	432.0	27.66	16.615		
7,500.0	7,022.0	7,420.6	6,928.0	15.0	16.3	78.20	399.5	397.3	459.6	430.1	29.50	15.578		
7,600.0	7,022.0	7,520.6	6,928.0	16.1	17.3	78.20	499.5	397.3	459.6	428.0	31.61	14.539		
7,700.0	7,022.0	7,620.6	6,928.0	17.3	18.4	78.20	599.5	397.3	459.6	425.7	33.94	13.543		
7,800.0	7,022.0	7,720.6	6,928.0	18.6	19.6	78.20	699.5	397.3	459.6	423.2	36.44	12.613		
7,900.0	7,022.0	7,820.6	6,928.0	19.9	20.9	78.20	799.5	397.3	459.6	420.5	39.08	11.760		
8,000.0	7,022.0	7,920.6	6,928.0	21.3	22.2	78.20	899.5	397.3	459.6	417.8	41.84	10.984		
8,100.0	7,022.0	8,020.6	6,928.0	22.8	23.6	78.20	999.5	397.3	459.6	414.9	44.70	10.283		
8,200.0	7,022.0	8,120.6	6,928.0	24.3	25.1	78.20	1,099.5	397.3	459.6	412.0	47.63	9.651		
8,300.0	7,022.0	8,220.6	6,928.0	25.8	26.6	78.20	1,199.5	397.3	459.6	409.0	50.62	9.080		
8,400.0	7,022.0	8,320.6	6,928.0	27.4	28.1	78.20	1,299.5	397.3	459.6	406.0	53.67	8.565		
8,500.0	7,022.0	8,420.6	6,928.0	28.9	29.6	78.20	1,399.5	397.3	459.6	402.9	56.76	8.098		
8,600.0	7,022.0	8,520.6	6,928.0	30.5	31.2	78.20	1,499.5	397.3	459.6	399.7	59.89	7.675		
8,700.0	7,022.0	8,620.6	6,928.0	32.1	32.8	78.20	1,599.5	397.3	459.6	396.6	63.05	7.290		
8,800.0	7,022.0	8,720.6	6,928.0	33.8	34.4	78.20	1,699.5	397.3	459.6	393.4	66.23	6.940		

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 4D-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 4D-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
8,900.0	7,022.0	8,820.6	6,928.0	35.4	36.0	78.20	1,799.5	397.3	459.6	390.2	69.44	6.619	
9,000.0	7,022.0	8,920.6	6,928.0	37.1	37.6	78.20	1,899.5	397.3	459.6	387.0	72.68	6.324	
9,100.0	7,022.0	9,020.6	6,928.0	38.7	39.2	78.20	1,999.5	397.3	459.6	383.7	75.93	6.054	
9,200.0	7,022.0	9,120.6	6,928.0	40.4	40.9	78.20	2,099.5	397.3	459.6	380.4	79.19	5.804	
9,300.0	7,022.0	9,220.6	6,928.0	42.1	42.5	78.20	2,199.5	397.3	459.6	377.2	82.47	5.573	
9,400.0	7,022.0	9,320.6	6,928.0	43.7	44.2	78.20	2,299.5	397.3	459.6	373.9	85.76	5.359	
9,500.0	7,022.0	9,420.6	6,928.0	45.4	45.9	78.20	2,399.5	397.3	459.6	370.6	89.06	5.161	
9,600.0	7,022.0	9,520.6	6,928.0	47.1	47.5	78.20	2,499.5	397.3	459.6	367.3	92.37	4.976	
9,700.0	7,022.0	9,620.6	6,928.0	48.8	49.2	78.20	2,599.5	397.3	459.6	363.9	95.70	4.803	
9,800.0	7,022.0	9,720.6	6,928.0	50.5	50.9	78.20	2,699.5	397.3	459.6	360.6	99.02	4.642	
9,900.0	7,022.0	9,820.6	6,928.0	52.2	52.6	78.20	2,799.5	397.3	459.6	357.3	102.36	4.490	
10,000.0	7,022.0	9,920.6	6,928.0	53.9	54.3	78.20	2,899.5	397.3	459.6	353.9	105.70	4.348	
10,100.0	7,022.0	10,020.6	6,928.0	55.6	56.0	78.20	2,999.5	397.3	459.6	350.6	109.05	4.215	
10,200.0	7,022.0	10,120.6	6,928.0	57.3	57.7	78.20	3,099.5	397.3	459.6	347.2	112.40	4.089	
10,300.0	7,022.0	10,220.6	6,928.0	59.1	59.4	78.20	3,199.5	397.3	459.6	343.9	115.76	3.971	
10,400.0	7,022.0	10,320.6	6,928.0	60.8	61.1	78.20	3,299.5	397.3	459.6	340.5	119.12	3.859	
10,500.0	7,022.0	10,420.6	6,928.0	62.5	62.8	78.20	3,399.5	397.3	459.6	337.1	122.49	3.752	
10,600.0	7,022.0	10,520.6	6,928.0	64.2	64.5	78.20	3,499.5	397.3	459.6	333.8	125.86	3.652	
10,700.0	7,022.0	10,620.6	6,928.0	65.9	66.2	78.20	3,599.5	397.3	459.6	330.4	129.23	3.557	
10,800.0	7,022.0	10,720.6	6,928.0	67.7	68.0	78.20	3,699.5	397.3	459.6	327.0	132.60	3.466	
10,900.0	7,022.0	10,820.6	6,928.0	69.4	69.7	78.20	3,799.5	397.3	459.6	323.6	135.98	3.380	
11,000.0	7,022.0	10,920.6	6,928.0	71.1	71.4	78.20	3,899.5	397.3	459.6	320.3	139.37	3.298	
11,100.0	7,022.0	11,020.6	6,928.0	72.8	73.1	78.20	3,999.5	397.3	459.6	316.9	142.75	3.220	
11,200.0	7,022.0	11,120.6	6,928.0	74.6	74.8	78.20	4,099.5	397.3	459.6	313.5	146.14	3.145	
11,300.0	7,022.0	11,220.6	6,928.0	76.3	76.6	78.20	4,199.5	397.3	459.6	310.1	149.53	3.074	
11,400.0	7,022.0	11,320.6	6,928.0	78.0	78.3	78.20	4,299.5	397.3	459.6	306.7	152.92	3.006	
11,500.0	7,022.0	11,420.6	6,928.0	79.8	80.0	78.20	4,399.5	397.3	459.6	303.3	156.31	2.940	
11,590.6	7,022.0	11,511.2	6,928.0	81.3	81.6	78.20	4,490.1	397.3	459.6	300.2	159.39	2.884 SF	





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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	90.96	-0.4	22.4	22.4					
100.0	100.0	100.0	100.0	0.1	0.1	90.96	-0.4	22.4	22.4	22.1	0.24	91.578		
200.0	200.0	200.0	200.0	0.3	0.3	90.96	-0.4	22.4	22.4	21.8	0.59	37.709		
300.0	300.0	300.0	300.0	0.5	0.5	90.96	-0.4	22.4	22.4	21.4	0.94	23.743		
350.0	350.0	350.0	350.0	0.6	0.6	90.96	-0.4	22.4	22.4	21.3	1.12	20.033 CC		
400.0	400.0	400.0	400.0	0.6	0.6	-99.07	-0.4	22.4	22.4	21.1	1.29	17.351 ES		
500.0	500.0	499.6	499.6	0.8	0.8	-102.28	-0.8	23.1	23.5	21.9	1.64	14.311		
600.0	599.9	599.2	599.2	1.0	1.0	-106.74	-2.0	25.4	26.6	24.6	2.00	13.301		
694.5	694.3	693.2	693.0	1.2	1.2	-111.00	-3.9	29.0	31.4	29.1	2.34	13.406		
700.0	699.8	698.6	698.5	1.2	1.2	-111.23	-4.0	29.3	31.7	29.4	2.36	13.435		
800.0	799.6	797.9	797.6	1.4	1.4	-113.79	-6.8	34.6	38.6	35.9	2.73	14.131		
900.0	899.4	897.0	896.4	1.6	1.6	-114.11	-10.4	41.5	46.9	43.7	3.11	15.044		
1,000.0	999.2	995.9	994.9	1.8	1.8	-113.15	-14.8	49.8	56.3	52.8	3.50	16.088		
1,100.0	1,099.1	1,094.5	1,092.8	2.0	2.0	-111.52	-19.9	59.6	67.2	63.3	3.90	17.233		
1,200.0	1,198.9	1,192.8	1,190.2	2.2	2.3	-109.57	-25.8	70.9	79.4	75.1	4.30	18.467		
1,300.0	1,298.7	1,291.7	1,288.2	2.4	2.6	-107.74	-32.3	83.1	92.5	87.8	4.70	19.680		
1,400.0	1,398.5	1,390.8	1,386.4	2.6	2.8	-106.36	-38.7	95.4	105.6	100.5	5.10	20.715		
1,500.0	1,498.3	1,489.9	1,484.5	2.8	3.1	-105.29	-45.2	107.7	118.9	113.4	5.50	21.606		
1,600.0	1,598.2	1,589.0	1,582.6	3.0	3.4	-104.43	-51.6	120.0	132.1	126.2	5.90	22.381		
1,700.0	1,698.0	1,688.1	1,680.7	3.2	3.7	-103.73	-58.0	132.2	145.4	139.1	6.31	23.059		
1,800.0	1,797.8	1,787.2	1,778.9	3.4	4.0	-103.14	-64.5	144.5	158.7	152.0	6.71	23.659		
1,900.0	1,897.6	1,886.3	1,877.0	3.6	4.3	-102.65	-70.9	156.8	172.0	164.9	7.11	24.192		
2,000.0	1,997.4	1,985.4	1,975.1	3.8	4.6	-102.22	-77.4	169.1	185.4	177.8	7.51	24.669		
2,100.0	2,097.3	2,084.5	2,073.2	4.0	4.9	-101.86	-83.8	181.4	198.7	190.8	7.92	25.098		
2,200.0	2,197.1	2,183.6	2,171.4	4.2	5.2	-101.54	-90.3	193.7	212.0	203.7	8.32	25.486		
2,300.0	2,296.9	2,282.7	2,269.5	4.4	5.4	-101.26	-96.7	205.9	225.4	216.7	8.72	25.839		
2,400.0	2,396.7	2,381.8	2,367.6	4.6	5.7	-101.01	-103.2	218.2	238.7	229.6	9.13	26.161		
2,500.0	2,496.5	2,480.9	2,465.7	4.8	6.0	-100.78	-109.6	230.5	252.1	242.6	9.53	26.455		
2,600.0	2,596.3	2,580.0	2,563.8	5.0	6.3	-100.58	-116.1	242.8	265.4	255.5	9.93	26.726		
2,700.0	2,696.2	2,679.1	2,662.0	5.2	6.6	-100.40	-122.5	255.1	278.8	268.5	10.34	26.977		
2,800.0	2,796.0	2,778.2	2,760.1	5.4	6.9	-100.23	-129.0	267.4	292.2	281.4	10.74	27.208		
2,900.0	2,895.8	2,877.3	2,858.2	5.6	7.2	-100.08	-135.4	279.6	305.5	294.4	11.14	27.423		
3,000.0	2,995.6	2,976.4	2,956.3	5.8	7.5	-99.94	-141.9	291.9	318.9	307.4	11.55	27.622		
3,100.0	3,095.4	3,075.5	3,054.5	6.0	7.8	-99.82	-148.3	304.2	332.3	320.3	11.95	27.809		
3,200.0	3,195.3	3,174.6	3,152.6	6.2	8.1	-99.70	-154.8	316.5	345.7	333.3	12.35	27.983		
3,300.0	3,295.1	3,273.7	3,250.7	6.4	8.4	-99.59	-161.2	328.8	359.0	346.3	12.76	28.146		
3,400.0	3,394.9	3,372.8	3,348.8	6.6	8.7	-99.49	-167.7	341.1	372.4	359.2	13.16	28.300		
3,500.0	3,494.7	3,471.9	3,447.0	6.8	9.0	-99.39	-174.1	353.3	385.8	372.2	13.56	28.444		
3,600.0	3,594.5	3,571.0	3,545.1	7.0	9.3	-99.31	-180.6	365.6	399.2	385.2	13.97	28.580		
3,700.0	3,694.4	3,670.1	3,643.2	7.2	9.6	-99.23	-187.0	377.9	412.5	398.2	14.37	28.708		
3,800.0	3,794.2	3,769.2	3,741.3	7.4	9.9	-99.15	-193.4	390.2	425.9	411.1	14.77	28.829		
3,900.0	3,894.0	3,868.3	3,839.5	7.6	10.2	-99.08	-199.9	402.5	439.3	424.1	15.18	28.944		
4,000.0	3,993.8	3,967.4	3,937.6	7.9	10.5	-99.01	-206.3	414.8	452.7	437.1	15.58	29.053		
4,100.0	4,093.6	4,066.5	4,035.7	8.1	10.8	-98.94	-212.8	427.0	466.1	450.1	15.98	29.156		
4,200.0	4,193.5	4,165.6	4,133.8	8.3	11.1	-98.88	-219.2	439.3	479.4	463.1	16.39	29.255		
4,300.0	4,293.3	4,264.7	4,232.0	8.5	11.4	-98.83	-225.7	451.6	492.8	476.0	16.79	29.348		
4,400.0	4,393.1	4,363.8	4,330.1	8.7	11.7	-98.77	-232.1	463.9	506.2	489.0	17.20	29.437		
4,500.0	4,492.9	4,462.9	4,428.2	8.9	12.0	-98.72	-238.6	476.2	519.6	502.0	17.60	29.523		
4,600.0	4,592.7	4,562.0	4,526.3	9.1	12.3	-98.67	-245.0	488.4	533.0	515.0	18.00	29.604		
4,700.0	4,692.6	4,661.1	4,624.4	9.3	12.6	-98.63	-251.5	500.7	546.4	527.9	18.41	29.682		
4,800.0	4,792.4	4,760.2	4,722.6	9.5	12.9	-98.58	-257.9	513.0	559.7	540.9	18.81	29.756		
4,900.0	4,892.2	4,859.3	4,820.7	9.7	13.2	-98.54	-264.4	525.3	573.1	553.9	19.21	29.827		

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 4D-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 4D-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				
5,000.0	4,992.0	4,958.4	4,918.8	9.9	13.5	-98.50	-270.8	537.6	586.5	566.9	19.62	29.896				
5,100.0	5,091.8	5,057.5	5,016.9	10.1	13.8	-98.46	-277.3	549.9	599.9	579.9	20.02	29.961				
5,200.0	5,191.7	5,156.6	5,115.1	10.3	14.1	-98.43	-283.7	562.1	613.3	592.9	20.43	30.024				
5,300.0	5,291.5	5,257.4	5,214.8	10.5	14.4	-98.39	-290.3	574.6	626.6	605.8	20.83	30.080				
5,400.0	5,391.3	5,367.5	5,324.0	10.7	14.7	-98.41	-296.8	587.0	638.9	617.7	21.25	30.060				
5,500.0	5,491.1	5,478.0	5,433.9	10.9	14.9	-98.51	-302.3	597.7	649.5	627.8	21.68	29.963				
5,600.0	5,590.9	5,588.9	5,544.3	11.1	15.2	-98.70	-306.9	606.4	658.3	636.2	22.10	29.793				
5,664.9	5,655.7	5,661.0	5,616.2	11.2	15.3	-98.86	-309.4	611.1	663.2	640.8	22.37	29.647				
5,700.0	5,690.8	5,700.0	5,655.2	11.3	15.4	-98.98	-310.5	613.3	665.5	642.9	22.52	29.554				
5,800.0	5,790.7	5,811.4	5,766.4	11.5	15.6	-99.23	-313.2	618.3	670.7	647.8	22.91	29.272				
5,900.0	5,890.6	5,922.9	5,877.9	11.7	15.7	-99.39	-314.8	621.3	673.9	650.6	23.28	28.951				
6,009.4	6,000.0	6,045.0	6,000.0	11.8	15.9	90.03	-315.4	622.5	675.1	651.4	23.64	28.554				
6,100.0	6,090.6	6,135.6	6,090.6	12.0	16.0	90.03	-315.4	622.5	675.1	651.2	23.92	28.219				
6,200.0	6,190.6	6,235.6	6,190.6	12.1	16.1	90.03	-315.4	622.5	675.1	650.8	24.23	27.857				
6,300.0	6,290.6	6,335.6	6,290.6	12.3	16.2	90.03	-315.4	622.5	675.1	650.5	24.54	27.504				
6,400.0	6,390.6	6,435.6	6,390.6	12.4	16.3	90.03	-315.4	622.5	675.1	650.2	24.86	27.158				
6,458.4	6,449.0	6,494.1	6,449.0	12.5	16.4	90.03	-315.4	622.5	675.1	650.0	25.04	26.959				
6,500.0	6,490.6	6,535.7	6,490.6	12.6	16.4	90.03	-313.8	622.5	675.1	650.0	25.12	26.873				
6,550.0	6,540.2	6,585.7	6,540.2	12.6	16.5	90.02	-307.9	622.5	675.1	649.9	25.16	26.831				
6,600.0	6,589.2	6,635.7	6,589.2	12.6	16.4	90.01	-297.7	622.5	675.1	649.9	25.14	26.849				
6,650.0	6,637.1	6,685.7	6,637.1	12.5	16.4	90.00	-283.3	622.5	675.1	650.0	25.08	26.918				
6,700.0	6,683.5	6,735.7	6,683.5	12.5	16.4	89.99	-264.8	622.5	675.1	650.1	24.98	27.027				
6,750.0	6,728.2	6,785.7	6,728.1	12.4	16.3	89.99	-242.3	622.5	675.1	650.2	24.85	27.162				
6,800.0	6,770.7	6,835.7	6,770.6	12.4	16.3	89.98	-216.0	622.5	675.1	650.4	24.72	27.306				
6,850.0	6,810.8	6,885.6	6,810.6	12.3	16.2	89.97	-186.1	622.5	675.1	650.5	24.60	27.441				
6,900.0	6,848.2	6,935.6	6,847.9	12.3	16.2	89.96	-152.8	622.5	675.1	650.6	24.51	27.546				
6,950.0	6,882.5	6,985.6	6,882.1	12.2	16.2	89.96	-116.4	622.5	675.1	650.6	24.46	27.599				
7,000.0	6,913.5	7,035.5	6,913.0	12.2	16.2	89.95	-77.2	622.5	675.1	650.6	24.48	27.580				
7,050.0	6,941.0	7,085.5	6,940.4	12.3	16.2	89.94	-35.5	622.5	675.1	650.5	24.57	27.470				
7,100.0	6,964.7	7,135.4	6,964.0	12.4	16.3	89.94	8.5	622.5	675.1	650.3	24.77	27.256				
7,150.0	6,984.5	7,185.3	6,983.8	12.5	16.4	89.93	54.4	622.5	675.1	650.0	25.06	26.933				
7,200.0	7,000.2	7,235.3	6,999.4	12.7	16.5	89.93	101.8	622.5	675.1	649.6	25.47	26.502				
7,250.0	7,011.8	7,285.2	7,010.9	13.0	16.7	89.92	150.3	622.5	675.1	649.1	25.99	25.973				
7,300.0	7,019.0	7,335.1	7,018.1	13.3	17.0	89.92	199.7	622.5	675.1	648.4	26.62	25.362				
7,350.0	7,021.9	7,385.0	7,020.9	13.7	17.3	89.92	249.5	622.5	675.1	647.7	27.34	24.689				
7,358.4	7,022.0	7,393.4	7,021.0	13.7	17.3	89.92	258.0	622.5	675.1	647.6	27.47	24.573				
7,400.0	7,022.0	7,435.0	7,021.0	14.1	17.6	89.92	299.5	622.5	675.1	646.9	28.18	23.959				
7,500.0	7,022.0	7,535.0	7,021.0	15.0	18.3	89.92	399.5	622.5	675.1	645.0	30.05	22.464				
7,600.0	7,022.0	7,635.0	7,021.0	16.1	19.2	89.92	499.5	622.5	675.1	642.9	32.20	20.965				
7,700.0	7,022.0	7,735.0	7,021.0	17.3	20.2	89.92	599.5	622.5	675.1	640.5	34.57	19.526				
7,800.0	7,022.0	7,835.0	7,021.0	18.6	21.3	89.92	699.5	622.5	675.1	637.9	37.12	18.184				
7,900.0	7,022.0	7,935.0	7,021.0	19.9	22.5	89.92	799.5	622.5	675.1	635.2	39.82	16.951				
8,000.0	7,022.0	8,035.0	7,021.0	21.3	23.8	89.92	899.5	622.5	675.1	632.4	42.64	15.832				
8,100.0	7,022.0	8,135.0	7,021.0	22.8	25.1	89.92	999.5	622.5	675.1	629.5	45.55	14.819				
8,200.0	7,022.0	8,235.0	7,021.0	24.3	26.5	89.92	1,099.5	622.5	675.1	626.5	48.54	13.906				
8,300.0	7,022.0	8,335.0	7,021.0	25.8	27.9	89.92	1,199.5	622.5	675.1	623.5	51.60	13.082				
8,400.0	7,022.0	8,435.0	7,021.0	27.4	29.3	89.92	1,299.5	622.5	675.1	620.3	54.71	12.338				
8,500.0	7,022.0	8,535.0	7,021.0	28.9	30.8	89.92	1,399.5	622.5	675.0	617.2	57.87	11.665				
8,600.0	7,022.0	8,635.0	7,021.0	30.5	32.3	89.92	1,499.5	622.5	675.0	614.0	61.06	11.055				
8,700.0	7,022.0	8,735.0	7,021.0	32.1	33.8	89.92	1,599.5	622.5	675.0	610.8	64.29	10.500				
8,800.0	7,022.0	8,835.0	7,021.0	33.8	35.4	89.92	1,699.5	622.5	675.0	607.5	67.55	9.994				
8,900.0	7,022.0	8,935.0	7,021.0	35.4	36.9	89.92	1,799.5	622.5	675.0	604.2	70.83	9.531				

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 4D-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 4D-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	7,022.0	9,035.0	7,021.0	37.1	38.5	89.92	1,899.5	622.5	675.0	600.9	74.13	9.106		
9,100.0	7,022.0	9,135.0	7,021.0	38.7	40.1	89.92	1,999.5	622.5	675.0	597.6	77.45	8.716		
9,200.0	7,022.0	9,235.0	7,021.0	40.4	41.7	89.92	2,099.5	622.5	675.0	594.3	80.78	8.356		
9,300.0	7,022.0	9,335.0	7,021.0	42.1	43.4	89.92	2,199.5	622.5	675.0	590.9	84.13	8.024		
9,400.0	7,022.0	9,435.0	7,021.0	43.7	45.0	89.92	2,299.5	622.5	675.0	587.5	87.49	7.715		
9,500.0	7,022.0	9,535.0	7,021.0	45.4	46.6	89.92	2,399.5	622.5	675.0	584.2	90.87	7.429		
9,600.0	7,022.0	9,635.0	7,021.0	47.1	48.3	89.92	2,499.5	622.5	675.0	580.8	94.25	7.162		
9,700.0	7,022.0	9,735.0	7,021.0	48.8	49.9	89.92	2,599.5	622.5	675.0	577.4	97.64	6.914		
9,800.0	7,022.0	9,835.0	7,021.0	50.5	51.6	89.92	2,699.5	622.4	675.0	574.0	101.04	6.681		
9,900.0	7,022.0	9,935.0	7,021.0	52.2	53.3	89.92	2,799.5	622.4	675.0	570.6	104.44	6.463		
10,000.0	7,022.0	10,035.0	7,021.0	53.9	55.0	89.92	2,899.5	622.4	675.0	567.2	107.86	6.258		
10,100.0	7,022.0	10,135.0	7,021.0	55.6	56.6	89.92	2,999.5	622.4	675.0	563.7	111.28	6.066		
10,200.0	7,022.0	10,235.0	7,021.0	57.3	58.3	89.92	3,099.5	622.4	675.0	560.3	114.70	5.885		
10,300.0	7,022.0	10,335.0	7,021.0	59.1	60.0	89.92	3,199.5	622.4	675.0	556.9	118.13	5.714		
10,400.0	7,022.0	10,435.0	7,021.0	60.8	61.7	89.92	3,299.5	622.4	675.0	553.5	121.56	5.553		
10,500.0	7,022.0	10,535.0	7,021.0	62.5	63.4	89.92	3,399.5	622.4	675.0	550.0	125.00	5.400		
10,600.0	7,022.0	10,635.0	7,021.0	64.2	65.1	89.92	3,499.5	622.4	675.0	546.6	128.44	5.255		
10,700.0	7,022.0	10,735.0	7,021.0	65.9	66.8	89.92	3,599.5	622.4	675.0	543.1	131.89	5.118		
10,800.0	7,022.0	10,835.0	7,021.0	67.7	68.5	89.92	3,699.5	622.4	675.0	539.7	135.34	4.988		
10,900.0	7,022.0	10,935.0	7,021.0	69.4	70.2	89.92	3,799.5	622.4	675.0	536.2	138.79	4.864		
11,000.0	7,022.0	11,035.0	7,021.0	71.1	71.9	89.92	3,899.5	622.4	675.0	532.8	142.24	4.745		
11,100.0	7,022.0	11,135.0	7,021.0	72.8	73.6	89.92	3,999.5	622.4	675.0	529.3	145.70	4.633		
11,200.0	7,022.0	11,235.0	7,021.0	74.6	75.3	89.92	4,099.5	622.4	675.0	525.9	149.16	4.525		
11,300.0	7,022.0	11,335.0	7,021.0	76.3	77.0	89.92	4,199.5	622.4	675.0	522.4	152.62	4.423		
11,400.0	7,022.0	11,435.0	7,021.0	78.0	78.8	89.92	4,299.5	622.4	675.0	518.9	156.08	4.325		
11,500.0	7,022.0	11,535.0	7,021.0	79.8	80.5	89.92	4,399.5	622.4	675.0	515.5	159.55	4.231		
11,590.6	7,022.0	11,625.6	7,021.0	81.3	82.0	89.92	4,490.1	622.4	675.0	512.3	162.69	4.149 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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	90.70	-0.4	29.9	29.9					
100.0	100.0	100.0	100.0	0.1	0.1	90.70	-0.4	29.9	29.9	29.7	0.24	122.478		
200.0	200.0	200.0	200.0	0.3	0.3	90.70	-0.4	29.9	29.9	29.3	0.59	50.432		
300.0	300.0	300.0	300.0	0.5	0.5	90.70	-0.4	29.9	29.9	29.0	0.94	31.754		
350.0	350.0	350.0	350.0	0.6	0.6	90.70	-0.4	29.9	29.9	28.8	1.12	26.792 CC, ES		
400.0	400.0	399.8	399.8	0.6	0.6	-99.04	-0.4	30.1	30.2	28.9	1.29	23.362		
500.0	500.0	499.2	499.2	0.8	0.8	-101.00	-1.1	31.7	32.1	30.4	1.64	19.549		
600.0	599.9	598.6	598.5	1.0	1.0	-104.28	-2.3	35.0	36.0	34.0	2.00	18.038		
694.5	694.3	692.3	692.1	1.2	1.2	-107.80	-4.0	39.5	41.7	39.3	2.34	17.807		
700.0	699.8	697.8	697.6	1.2	1.2	-108.01	-4.2	39.8	42.1	39.7	2.36	17.820		
800.0	799.6	796.8	796.3	1.4	1.4	-110.61	-6.6	46.2	50.0	47.3	2.73	18.299		
900.0	899.4	895.5	894.7	1.6	1.6	-111.56	-9.7	54.1	59.4	56.3	3.11	19.106		
1,000.0	999.2	994.0	992.6	1.8	1.8	-111.48	-13.4	63.7	70.3	66.8	3.50	20.114		
1,100.0	1,099.1	1,092.1	1,090.1	2.0	2.1	-110.77	-17.6	74.7	82.6	78.7	3.89	21.263		
1,200.0	1,198.9	1,189.9	1,186.9	2.2	2.4	-109.72	-22.5	87.3	96.4	92.1	4.28	22.519		
1,300.0	1,298.7	1,287.2	1,283.0	2.4	2.6	-108.49	-27.9	101.3	111.6	106.9	4.68	23.863		
1,400.0	1,398.5	1,384.0	1,378.4	2.6	3.0	-107.19	-33.8	116.7	128.3	123.3	5.08	25.283		
1,500.0	1,498.3	1,481.2	1,473.9	2.8	3.3	-105.90	-40.3	133.6	146.4	141.0	5.48	26.745		
1,600.0	1,598.2	1,579.4	1,570.3	3.0	3.6	-104.85	-47.0	150.9	164.8	159.0	5.88	28.048		
1,700.0	1,698.0	1,677.7	1,666.8	3.2	4.0	-104.01	-53.7	168.2	183.3	177.0	6.28	29.192		
1,800.0	1,797.8	1,775.9	1,763.3	3.4	4.3	-103.32	-60.3	185.5	201.8	195.1	6.68	30.203		
1,900.0	1,897.6	1,874.2	1,859.8	3.6	4.7	-102.75	-67.0	202.8	220.3	213.2	7.08	31.103		
2,000.0	1,997.4	1,972.4	1,956.3	3.8	5.1	-102.26	-73.7	220.2	238.8	231.3	7.48	31.910		
2,100.0	2,097.3	2,070.7	2,052.8	4.0	5.4	-101.85	-80.3	237.5	257.3	249.4	7.88	32.635		
2,200.0	2,197.1	2,168.9	2,149.3	4.2	5.8	-101.49	-87.0	254.8	275.8	267.5	8.29	33.292		
2,300.0	2,296.9	2,267.2	2,245.8	4.4	6.1	-101.18	-93.7	272.1	294.4	285.7	8.69	33.889		
2,400.0	2,396.7	2,365.4	2,342.2	4.6	6.5	-100.90	-100.3	289.4	312.9	303.8	9.09	34.434		
2,500.0	2,496.5	2,463.7	2,438.7	4.8	6.9	-100.66	-107.0	306.7	331.5	322.0	9.49	34.934		
2,600.0	2,596.3	2,561.9	2,535.2	5.0	7.2	-100.44	-113.7	324.0	350.1	340.2	9.89	35.393		
2,700.0	2,696.2	2,660.2	2,631.7	5.2	7.6	-100.24	-120.3	341.3	368.6	358.3	10.29	35.818		
2,800.0	2,796.0	2,758.4	2,728.2	5.4	8.0	-100.06	-127.0	358.6	387.2	376.5	10.69	36.210		
2,900.0	2,895.8	2,856.7	2,824.7	5.6	8.3	-99.90	-133.7	375.9	405.8	394.7	11.09	36.574		
3,000.0	2,995.6	2,955.0	2,921.2	5.8	8.7	-99.75	-140.3	393.2	424.4	412.9	11.50	36.914		
3,100.0	3,095.4	3,053.2	3,017.6	6.0	9.1	-99.62	-147.0	410.5	442.9	431.0	11.90	37.230		
3,200.0	3,195.3	3,151.5	3,114.1	6.2	9.4	-99.49	-153.7	427.8	461.5	449.2	12.30	37.526		
3,300.0	3,295.1	3,249.7	3,210.6	6.4	9.8	-99.38	-160.3	445.1	480.1	467.4	12.70	37.803		
3,400.0	3,394.9	3,348.0	3,307.1	6.6	10.2	-99.27	-167.0	462.4	498.7	485.6	13.10	38.064		
3,500.0	3,494.7	3,446.2	3,403.6	6.8	10.5	-99.17	-173.7	479.7	517.3	503.8	13.50	38.309		
3,600.0	3,594.5	3,544.5	3,500.1	7.0	10.9	-99.08	-180.3	497.0	535.9	522.0	13.90	38.540		
3,700.0	3,694.4	3,642.7	3,596.6	7.2	11.3	-98.99	-187.0	514.3	554.5	540.2	14.31	38.758		
3,800.0	3,794.2	3,741.0	3,693.1	7.4	11.6	-98.91	-193.7	531.6	573.1	558.4	14.71	38.964		
3,900.0	3,894.0	3,839.2	3,789.5	7.6	12.0	-98.84	-200.3	548.9	591.7	576.6	15.11	39.159		
4,000.0	3,993.8	3,937.5	3,886.0	7.9	12.4	-98.77	-207.0	566.2	610.3	594.7	15.51	39.344		
4,100.0	4,093.6	4,035.7	3,982.5	8.1	12.7	-98.70	-213.7	583.6	628.9	612.9	15.91	39.520		
4,200.0	4,193.5	4,134.0	4,079.0	8.3	13.1	-98.64	-220.3	600.9	647.5	631.1	16.31	39.687		
4,300.0	4,293.3	4,232.2	4,175.5	8.5	13.5	-98.58	-227.0	618.2	666.1	649.3	16.72	39.846		
4,400.0	4,393.1	4,330.5	4,272.0	8.7	13.9	-98.53	-233.7	635.5	684.7	667.5	17.12	39.998		
4,500.0	4,492.9	4,428.7	4,368.5	8.9	14.2	-98.47	-240.3	652.8	703.2	685.7	17.52	40.143		
4,600.0	4,592.7	4,527.0	4,465.0	9.1	14.6	-98.42	-247.0	670.1	721.8	703.9	17.92	40.281		
4,700.0	4,692.6	4,625.3	4,561.4	9.3	15.0	-98.37	-253.7	687.4	740.4	722.1	18.32	40.414		
4,800.0	4,792.4	4,723.5	4,657.9	9.5	15.3	-98.33	-260.3	704.7	759.1	740.3	18.72	40.540		
4,900.0	4,892.2	4,821.8	4,754.4	9.7	15.7	-98.29	-267.0	722.0	777.7	758.5	19.12	40.662		

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 4D-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 4D-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		
5,000.0	4,992.0	4,920.0	4,850.9	9.9	16.1	-98.25	-273.7	739.3	796.3	776.7	19.53	40.778		
5,100.0	5,091.8	5,022.8	4,951.8	10.1	16.4	-98.21	-280.6	757.3	814.8	794.8	19.94	40.869		
5,200.0	5,191.7	5,136.7	5,064.0	10.3	16.8	-98.21	-287.7	775.7	831.9	811.5	20.37	40.849		
5,300.0	5,291.5	5,251.3	5,177.3	10.5	17.2	-98.26	-294.0	792.1	847.2	826.4	20.80	40.738		
5,400.0	5,391.3	5,366.5	5,291.4	10.7	17.5	-98.37	-299.6	806.5	860.6	839.4	21.23	40.543		
5,500.0	5,491.1	5,482.2	5,406.4	10.9	17.8	-98.52	-304.3	818.8	872.2	850.5	21.66	40.269		
5,600.0	5,590.9	5,598.4	5,522.0	11.1	18.1	-98.73	-308.2	828.9	881.9	859.8	22.09	39.919		
5,664.9	5,655.7	5,673.9	5,597.4	11.2	18.2	-98.88	-310.3	834.3	887.1	864.8	22.37	39.656		
5,700.0	5,690.8	5,714.9	5,638.2	11.3	18.3	-99.00	-311.3	836.9	889.6	867.1	22.52	39.498		
5,800.0	5,790.7	5,831.7	5,754.9	11.5	18.5	-99.25	-313.5	842.6	895.3	872.4	22.93	39.041		
5,900.0	5,890.6	5,948.7	5,871.8	11.7	18.6	-99.40	-314.8	846.2	898.8	875.5	23.31	38.559		
6,009.4	6,000.0	6,076.9	6,000.0	11.8	18.7	90.02	-315.4	847.5	900.1	876.4	23.69	37.999		
6,100.0	6,090.6	6,167.5	6,090.6	12.0	18.8	90.02	-315.4	847.5	900.1	876.2	23.97	37.554		
6,200.0	6,190.6	6,267.5	6,190.6	12.1	18.9	90.02	-315.4	847.5	900.1	875.8	24.28	37.074		
6,300.0	6,290.6	6,367.5	6,290.6	12.3	19.0	90.02	-315.4	847.5	900.1	875.5	24.59	36.603		
6,400.0	6,390.6	6,467.5	6,390.6	12.4	19.1	90.02	-315.4	847.5	900.1	875.2	24.90	36.144		
6,458.4	6,449.0	6,525.9	6,449.0	12.5	19.2	90.02	-315.4	847.5	900.1	875.0	25.09	35.880		
6,460.1	6,450.8	6,527.6	6,450.8	12.5	19.2	90.02	-315.4	847.5	900.1	875.0	25.09	35.873		
6,500.0	6,490.6	6,567.4	6,490.6	12.6	19.2	90.12	-315.4	847.5	900.1	874.9	25.18	35.741		
6,550.0	6,540.2	6,617.1	6,540.2	12.6	19.3	90.48	-315.4	847.5	900.2	874.9	25.24	35.657		
6,600.0	6,589.2	6,666.0	6,589.2	12.6	19.3	91.10	-315.4	847.5	900.3	875.0	25.25	35.655		
6,650.0	6,637.1	6,716.6	6,639.7	12.5	19.4	91.85	-313.1	847.5	900.6	875.4	25.19	35.748		
6,700.0	6,683.5	6,768.4	6,691.0	12.5	19.4	92.60	-306.2	847.5	901.1	876.0	25.10	35.905		
6,750.0	6,728.2	6,821.4	6,742.6	12.4	19.4	93.33	-294.4	847.5	901.7	876.8	24.97	36.110		
6,800.0	6,770.7	6,875.7	6,794.2	12.4	19.3	94.06	-277.4	847.5	902.5	877.7	24.83	36.343		
6,850.0	6,810.8	6,931.4	6,845.1	12.3	19.3	94.75	-255.0	847.5	903.4	878.7	24.70	36.581		
6,900.0	6,848.2	6,988.4	6,894.8	12.3	19.3	95.42	-227.0	847.5	904.4	879.8	24.58	36.796		
6,950.0	6,882.5	7,046.8	6,942.5	12.2	19.2	96.06	-193.3	847.5	905.4	880.9	24.50	36.960		
7,000.0	6,913.5	7,106.6	6,987.6	12.2	19.2	96.64	-154.1	847.5	906.4	881.9	24.47	37.035		
7,050.0	6,941.0	7,167.7	7,029.1	12.3	19.2	97.18	-109.3	847.5	907.4	882.9	24.53	36.987		
7,100.0	6,964.7	7,230.1	7,066.4	12.4	19.2	97.65	-59.3	847.5	908.4	883.7	24.69	36.793		
7,150.0	6,984.5	7,293.6	7,098.5	12.5	19.2	98.06	-4.6	847.5	909.2	884.3	24.95	36.445		
7,200.0	7,000.2	7,358.1	7,124.7	12.7	19.3	98.38	54.3	847.5	909.9	884.6	25.34	35.909		
7,250.0	7,011.8	7,423.3	7,144.3	13.0	19.5	98.63	116.5	847.5	910.5	884.6	25.86	35.204		
7,300.0	7,019.0	7,489.1	7,156.9	13.3	19.7	98.78	181.0	847.5	910.8	884.3	26.51	34.360		
7,350.0	7,021.9	7,555.2	7,161.9	13.7	20.1	98.84	246.9	847.5	910.9	883.7	27.27	33.404		
7,358.4	7,022.0	7,566.3	7,162.0	13.7	20.1	98.84	258.0	847.5	910.9	883.5	27.41	33.234		
7,400.0	7,022.0	7,607.8	7,162.0	14.1	20.3	98.84	299.5	847.5	910.9	882.9	28.09	32.428		
7,500.0	7,022.0	7,707.8	7,162.0	15.0	21.0	98.84	399.5	847.5	910.9	881.0	29.94	30.425		
7,600.0	7,022.0	7,807.8	7,162.0	16.1	21.8	98.84	499.5	847.5	910.9	878.9	32.06	28.415		
7,700.0	7,022.0	7,907.8	7,162.0	17.3	22.7	98.84	599.5	847.5	910.9	876.5	34.40	26.484		
7,800.0	7,022.0	8,007.8	7,162.0	18.6	23.6	98.84	699.5	847.5	910.9	874.0	36.91	24.679		
7,900.0	7,022.0	8,107.8	7,162.0	19.9	24.7	98.84	799.5	847.5	910.9	871.4	39.57	23.020		
8,000.0	7,022.0	8,207.8	7,162.0	21.3	25.9	98.84	899.5	847.5	910.9	868.6	42.35	21.510		
8,100.0	7,022.0	8,307.8	7,162.0	22.8	27.1	98.84	999.5	847.5	910.9	865.7	45.22	20.144		
8,200.0	7,022.0	8,407.8	7,162.0	24.3	28.3	98.84	1,099.5	847.5	910.9	862.8	48.17	18.910		
8,300.0	7,022.0	8,507.8	7,162.0	25.8	29.7	98.84	1,199.5	847.5	910.9	859.8	51.19	17.796		
8,400.0	7,022.0	8,607.8	7,162.0	27.4	31.0	98.84	1,299.5	847.5	910.9	856.7	54.26	16.789		
8,500.0	7,022.0	8,707.8	7,162.0	28.9	32.4	98.84	1,399.5	847.5	910.9	853.6	57.37	15.878		
8,600.0	7,022.0	8,807.8	7,162.0	30.5	33.9	98.84	1,499.5	847.5	910.9	850.4	60.52	15.051		
8,700.0	7,022.0	8,907.8	7,162.0	32.1	35.3	98.84	1,599.5	847.5	910.9	847.2	63.71	14.298		
8,800.0	7,022.0	9,007.8	7,162.0	33.8	36.8	98.84	1,699.5	847.5	910.9	844.0	66.92	13.611		

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 4D-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 4D-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				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		
8,900.0	7,022.0	9,107.8	7,162.0	35.4	38.3	98.84	1,799.5	847.5	910.9	840.8	70.16	12.983		
9,000.0	7,022.0	9,207.8	7,162.0	37.1	39.9	98.84	1,899.5	847.5	910.9	837.5	73.42	12.407		
9,100.0	7,022.0	9,307.8	7,162.0	38.7	41.4	98.84	1,999.5	847.5	910.9	834.2	76.70	11.877		
9,200.0	7,022.0	9,407.8	7,162.0	40.4	43.0	98.84	2,099.5	847.5	910.9	830.9	79.99	11.388		
9,300.0	7,022.0	9,507.8	7,162.0	42.1	44.5	98.84	2,199.5	847.5	910.9	827.6	83.30	10.936		
9,400.0	7,022.0	9,607.8	7,162.0	43.7	46.1	98.84	2,299.5	847.5	910.9	824.3	86.62	10.517		
9,500.0	7,022.0	9,707.8	7,162.0	45.4	47.7	98.84	2,399.5	847.5	910.9	821.0	89.95	10.127		
9,600.0	7,022.0	9,807.8	7,162.0	47.1	49.4	98.84	2,499.5	847.5	910.9	817.6	93.29	9.765		
9,700.0	7,022.0	9,907.8	7,162.0	48.8	51.0	98.84	2,599.5	847.5	910.9	814.3	96.64	9.426		
9,800.0	7,022.0	10,007.8	7,162.0	50.5	52.6	98.84	2,699.5	847.5	910.9	810.9	100.00	9.110		
9,900.0	7,022.0	10,107.8	7,162.0	52.2	54.2	98.84	2,799.5	847.5	910.9	807.6	103.36	8.813		
10,000.0	7,022.0	10,207.8	7,162.0	53.9	55.9	98.84	2,899.5	847.5	910.9	804.2	106.73	8.535		
10,100.0	7,022.0	10,307.8	7,162.0	55.6	57.5	98.84	2,999.5	847.5	910.9	800.8	110.11	8.273		
10,200.0	7,022.0	10,407.8	7,162.0	57.3	59.2	98.84	3,099.5	847.5	910.9	797.4	113.49	8.026		
10,300.0	7,022.0	10,507.8	7,162.0	59.1	60.9	98.84	3,199.5	847.5	910.9	794.0	116.88	7.794		
10,400.0	7,022.0	10,607.8	7,162.0	60.8	62.5	98.84	3,299.5	847.5	910.9	790.7	120.27	7.574		
10,500.0	7,022.0	10,707.8	7,162.0	62.5	64.2	98.84	3,399.5	847.5	910.9	787.3	123.67	7.366		
10,600.0	7,022.0	10,807.8	7,162.0	64.2	65.9	98.84	3,499.5	847.5	910.9	783.9	127.07	7.169		
10,700.0	7,022.0	10,907.8	7,162.0	65.9	67.6	98.84	3,599.5	847.5	910.9	780.5	130.47	6.982		
10,800.0	7,022.0	11,007.8	7,162.0	67.7	69.3	98.84	3,699.5	847.5	910.9	777.0	133.88	6.804		
10,900.0	7,022.0	11,107.8	7,162.0	69.4	70.9	98.84	3,799.5	847.5	910.9	773.6	137.29	6.635		
11,000.0	7,022.0	11,207.8	7,162.0	71.1	72.6	98.84	3,899.5	847.5	910.9	770.2	140.70	6.474		
11,100.0	7,022.0	11,307.8	7,162.0	72.8	74.3	98.84	3,999.5	847.5	910.9	766.8	144.12	6.321		
11,200.0	7,022.0	11,407.8	7,162.0	74.6	76.0	98.84	4,099.5	847.5	910.9	763.4	147.53	6.174		
11,300.0	7,022.0	11,507.8	7,162.0	76.3	77.7	98.84	4,199.5	847.5	910.9	760.0	150.95	6.034		
11,400.0	7,022.0	11,607.8	7,162.0	78.0	79.4	98.84	4,299.5	847.5	910.9	756.5	154.38	5.901		
11,500.0	7,022.0	11,707.8	7,162.0	79.8	81.1	98.84	4,399.5	847.5	910.9	753.1	157.80	5.773		
11,590.6	7,022.0	11,798.4	7,162.0	81.3	82.7	98.84	4,490.1	847.5	910.9	750.0	160.90	5.661 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		
0.0	0.0	0.0	0.0	0.0	0.0	90.56	-0.4	37.5	37.5					
100.0	100.0	100.0	100.0	0.1	0.1	90.56	-0.4	37.5	37.5	37.2	0.24	153.379		
200.0	200.0	200.0	200.0	0.3	0.3	90.56	-0.4	37.5	37.5	36.9	0.59	63.156		
300.0	300.0	300.0	300.0	0.5	0.5	90.56	-0.4	37.5	37.5	36.5	0.94	39.765 CC, ES		
350.0	350.0	349.4	349.4	0.6	0.6	90.74	-0.5	37.9	37.9	36.8	1.12	33.948		
400.0	400.0	398.7	398.7	0.6	0.6	-98.52	-0.9	39.1	39.2	37.9	1.29	30.371		
500.0	500.0	497.2	497.1	0.8	0.8	-98.86	-2.3	44.0	44.4	42.8	1.64	27.083		
600.0	599.9	595.2	594.7	1.0	1.0	-99.87	-4.8	52.0	53.2	51.2	2.00	26.652		
694.5	694.3	687.2	686.0	1.2	1.3	-101.02	-8.0	62.5	64.7	62.4	2.34	27.638		
700.0	699.8	692.5	691.3	1.2	1.3	-101.10	-8.2	63.2	65.5	63.2	2.36	27.726		
800.0	799.6	789.0	786.6	1.4	1.6	-101.76	-12.5	77.3	81.2	78.5	2.74	29.637		
900.0	899.4	884.4	880.3	1.6	1.9	-101.57	-17.7	94.3	100.0	96.9	3.12	32.027		
1,000.0	999.2	979.9	973.6	1.8	2.3	-100.96	-23.7	114.1	121.6	118.1	3.51	34.679		
1,100.0	1,099.1	1,077.3	1,068.6	2.0	2.7	-100.45	-30.0	134.9	143.9	140.0	3.90	36.910		
1,200.0	1,198.9	1,174.8	1,163.6	2.2	3.1	-100.08	-36.3	155.7	166.2	161.9	4.29	38.723		
1,300.0	1,298.7	1,272.3	1,258.6	2.4	3.5	-99.79	-42.7	176.5	188.5	183.8	4.69	40.223		
1,400.0	1,398.5	1,369.8	1,353.7	2.6	3.9	-99.56	-49.0	197.3	210.8	205.7	5.08	41.485		
1,500.0	1,498.3	1,467.3	1,448.7	2.8	4.3	-99.38	-55.3	218.0	233.1	227.6	5.48	42.560		
1,600.0	1,598.2	1,564.7	1,543.7	3.0	4.8	-99.23	-61.7	238.8	255.4	249.5	5.87	43.487		
1,700.0	1,698.0	1,662.2	1,638.7	3.2	5.2	-99.10	-68.0	259.6	277.7	271.4	6.27	44.294		
1,800.0	1,797.8	1,759.7	1,733.8	3.4	5.6	-99.00	-74.3	280.4	300.0	293.3	6.67	45.002		
1,900.0	1,897.6	1,857.2	1,828.8	3.6	6.0	-98.90	-80.6	301.2	322.3	315.2	7.06	45.630		
2,000.0	1,997.4	1,954.7	1,923.8	3.8	6.4	-98.82	-87.0	322.0	344.6	337.1	7.46	46.189		
2,100.0	2,097.3	2,052.1	2,018.8	4.0	6.8	-98.75	-93.3	342.8	366.9	359.0	7.86	46.690		
2,200.0	2,197.1	2,149.6	2,113.9	4.2	7.3	-98.69	-99.6	363.6	389.2	380.9	8.26	47.143		
2,300.0	2,296.9	2,247.1	2,208.9	4.4	7.7	-98.63	-106.0	384.4	411.5	402.8	8.65	47.552		
2,400.0	2,396.7	2,344.6	2,303.9	4.6	8.1	-98.58	-112.3	405.2	433.8	424.8	9.05	47.926		
2,500.0	2,496.5	2,442.1	2,398.9	4.8	8.5	-98.54	-118.6	426.0	456.1	446.7	9.45	48.267		
2,600.0	2,596.3	2,539.5	2,494.0	5.0	9.0	-98.50	-124.9	446.8	478.4	468.6	9.85	48.580		
2,700.0	2,696.2	2,637.0	2,589.0	5.2	9.4	-98.46	-131.3	467.6	500.7	490.5	10.25	48.868		
2,800.0	2,796.0	2,734.5	2,684.0	5.4	9.8	-98.43	-137.6	488.4	523.0	512.4	10.64	49.135		
2,900.0	2,895.8	2,832.0	2,779.1	5.6	10.2	-98.39	-143.9	509.1	545.3	534.3	11.04	49.382		
3,000.0	2,995.6	2,929.5	2,874.1	5.8	10.6	-98.36	-150.3	529.9	567.6	556.2	11.44	49.611		
3,100.0	3,095.4	3,026.9	2,969.1	6.0	11.1	-98.34	-156.6	550.7	589.9	578.1	11.84	49.825		
3,200.0	3,195.3	3,124.4	3,064.1	6.2	11.5	-98.31	-162.9	571.5	612.2	600.0	12.24	50.025		
3,300.0	3,295.1	3,221.9	3,159.2	6.4	11.9	-98.29	-169.2	592.3	634.6	621.9	12.64	50.212		
3,400.0	3,394.9	3,319.4	3,254.2	6.6	12.3	-98.27	-175.6	613.1	656.9	643.8	13.04	50.387		
3,500.0	3,494.7	3,416.9	3,349.2	6.8	12.8	-98.25	-181.9	633.9	679.2	665.7	13.43	50.552		
3,600.0	3,594.5	3,514.4	3,444.2	7.0	13.2	-98.23	-188.2	654.7	701.5	687.6	13.83	50.707		
3,700.0	3,694.4	3,611.8	3,539.3	7.2	13.6	-98.21	-194.6	675.5	723.8	709.5	14.23	50.854		
3,800.0	3,794.2	3,709.3	3,634.3	7.4	14.0	-98.20	-200.9	696.3	746.1	731.5	14.63	50.992		
3,900.0	3,894.0	3,806.8	3,729.3	7.6	14.4	-98.18	-207.2	717.1	768.4	753.4	15.03	51.123		
4,000.0	3,993.8	3,904.3	3,824.3	7.9	14.9	-98.17	-213.5	737.9	790.7	775.3	15.43	51.247		
4,100.0	4,093.6	4,001.8	3,919.4	8.1	15.3	-98.15	-219.9	758.7	813.0	797.2	15.83	51.365		
4,200.0	4,193.5	4,099.2	4,014.4	8.3	15.7	-98.14	-226.2	779.5	835.3	819.1	16.23	51.477		
4,300.0	4,293.3	4,196.7	4,109.4	8.5	16.1	-98.13	-232.5	800.2	857.6	841.0	16.63	51.583		
4,400.0	4,393.1	4,294.2	4,204.4	8.7	16.6	-98.11	-238.9	821.0	879.9	862.9	17.02	51.684		
4,500.0	4,492.9	4,391.7	4,299.5	8.9	17.0	-98.10	-245.2	841.8	902.2	884.8	17.42	51.781		
4,600.0	4,592.7	4,489.2	4,394.5	9.1	17.4	-98.09	-251.5	862.6	924.5	906.7	17.82	51.873		
4,700.0	4,692.6	4,586.6	4,489.5	9.3	17.8	-98.08	-257.8	883.4	946.8	928.6	18.22	51.962		
4,800.0	4,792.4	4,684.1	4,584.6	9.5	18.2	-98.07	-264.2	904.2	969.1	950.5	18.62	52.046		
4,900.0	4,892.2	4,781.6	4,679.6	9.7	18.7	-98.06	-270.5	925.0	991.5	972.4	19.02	52.127		

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 4D-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 4D-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,000.0	4,992.0	4,890.0	4,785.4	9.9	19.1	-98.06	-277.4	947.8	1,013.5	994.0	19.44	52.134				
5,100.0	5,091.8	5,008.3	4,901.2	10.1	19.6	-98.09	-284.4	970.6	1,033.8	1,013.9	19.88	52.005				
5,200.0	5,191.7	5,127.4	5,018.3	10.3	20.0	-98.15	-290.7	991.3	1,052.1	1,031.8	20.32	51.782				
5,300.0	5,291.5	5,247.4	5,136.8	10.5	20.4	-98.25	-296.3	1,009.8	1,068.4	1,047.7	20.76	51.470				
5,400.0	5,391.3	5,368.1	5,256.3	10.7	20.7	-98.39	-301.2	1,026.0	1,082.8	1,061.6	21.20	51.074				
5,500.0	5,491.1	5,489.5	5,376.8	10.9	21.0	-98.56	-305.5	1,039.9	1,095.2	1,073.5	21.64	50.598				
5,600.0	5,590.9	5,611.4	5,498.0	11.1	21.3	-98.76	-308.9	1,051.3	1,105.5	1,083.4	22.09	50.050				
5,664.9	5,655.7	5,690.7	5,577.1	11.2	21.5	-98.91	-310.8	1,057.4	1,111.1	1,088.7	22.38	49.657				
5,700.0	5,690.8	5,733.6	5,620.0	11.3	21.5	-99.02	-311.7	1,060.3	1,113.8	1,091.3	22.53	49.427				
5,800.0	5,790.7	5,856.3	5,742.5	11.5	21.7	-99.26	-313.7	1,066.8	1,119.8	1,096.9	22.96	48.776				
5,900.0	5,890.6	5,979.3	5,865.3	11.7	21.9	-99.41	-314.9	1,070.9	1,123.6	1,100.2	23.35	48.119				
6,009.4	6,000.0	6,114.0	6,000.0	11.8	22.0	90.02	-315.4	1,072.4	1,125.0	1,101.2	23.74	47.388				
6,100.0	6,090.6	6,204.6	6,090.6	12.0	22.1	90.02	-315.4	1,072.4	1,125.0	1,101.0	24.02	46.834				
6,200.0	6,190.6	6,304.6	6,190.6	12.1	22.1	90.02	-315.4	1,072.4	1,125.0	1,100.6	24.33	46.235				
6,300.0	6,290.6	6,404.6	6,290.6	12.3	22.2	90.02	-315.4	1,072.4	1,125.0	1,100.3	24.64	45.649				
6,368.4	6,359.1	6,473.0	6,359.1	12.4	22.3	90.02	-315.3	1,072.4	1,125.0	1,100.1	24.86	45.259				
6,400.0	6,390.6	6,504.5	6,390.6	12.4	22.3	89.96	-314.3	1,072.4	1,125.0	1,100.0	24.95	45.095				
6,458.4	6,449.0	6,562.2	6,447.9	12.5	22.3	89.63	-307.8	1,072.4	1,125.0	1,099.9	25.10	44.812				
6,500.0	6,490.6	6,602.5	6,487.3	12.6	22.3	89.30	-299.9	1,072.4	1,125.1	1,099.9	25.19	44.669				
6,550.0	6,540.2	6,650.0	6,533.1	12.6	22.3	88.90	-287.0	1,072.4	1,125.2	1,100.0	25.23	44.605				
6,600.0	6,589.2	6,697.6	6,577.7	12.6	22.3	88.51	-270.3	1,072.4	1,125.4	1,100.2	25.21	44.640				
6,650.0	6,637.1	6,744.4	6,619.9	12.5	22.2	88.14	-250.4	1,072.4	1,125.6	1,100.4	25.15	44.757				
6,700.0	6,683.5	6,790.6	6,660.0	12.5	22.2	87.77	-227.5	1,072.4	1,125.8	1,100.8	25.05	44.939				
6,750.0	6,728.2	6,836.3	6,697.7	12.4	22.2	87.43	-201.6	1,072.4	1,126.1	1,101.2	24.93	45.163				
6,800.0	6,770.7	6,881.6	6,732.9	12.4	22.1	87.11	-173.1	1,072.4	1,126.4	1,101.6	24.81	45.405				
6,850.0	6,810.8	6,926.6	6,765.5	12.3	22.1	86.80	-142.2	1,072.4	1,126.8	1,102.1	24.69	45.634				
6,900.0	6,848.2	6,971.1	6,795.3	12.3	22.1	86.52	-109.1	1,072.4	1,127.1	1,102.5	24.60	45.819				
6,950.0	6,882.5	7,015.3	6,822.3	12.2	22.1	86.26	-74.0	1,072.4	1,127.4	1,102.8	24.55	45.926				
7,000.0	6,913.5	7,059.3	6,846.3	12.2	22.1	86.03	-37.2	1,072.4	1,127.7	1,103.1	24.55	45.932				
7,050.0	6,941.0	7,100.0	6,866.0	12.3	22.2	85.84	-1.6	1,072.4	1,128.0	1,103.3	24.64	45.776				
7,100.0	6,964.7	7,146.5	6,885.3	12.4	22.2	85.65	40.7	1,072.4	1,128.2	1,103.4	24.83	45.440				
7,150.0	6,984.5	7,189.8	6,900.2	12.5	22.3	85.50	81.3	1,072.4	1,128.5	1,103.3	25.11	44.934				
7,200.0	7,000.2	7,233.0	6,911.9	12.7	22.4	85.39	122.9	1,072.4	1,128.6	1,103.1	25.51	44.249				
7,250.0	7,011.8	7,276.1	6,920.5	13.0	22.5	85.30	165.1	1,072.4	1,128.8	1,102.8	26.01	43.401				
7,300.0	7,019.0	7,319.1	6,925.8	13.3	22.7	85.25	207.8	1,072.4	1,128.9	1,102.2	26.62	42.412				
7,350.0	7,021.9	7,362.1	6,928.0	13.7	22.9	85.22	250.7	1,072.4	1,128.9	1,101.6	27.32	41.319				
7,358.4	7,022.0	7,369.4	6,928.0	13.7	22.9	85.22	258.0	1,072.4	1,128.9	1,101.4	27.45	41.125				
7,400.0	7,022.0	7,410.9	6,928.0	14.1	23.1	85.22	299.5	1,072.4	1,128.9	1,100.7	28.14	40.116				
7,500.0	7,022.0	7,510.9	6,928.0	15.0	23.7	85.22	399.5	1,072.4	1,128.9	1,098.9	30.01	37.619				
7,600.0	7,022.0	7,610.9	6,928.0	16.1	24.3	85.22	499.5	1,072.4	1,128.9	1,096.7	32.15	35.114				
7,700.0	7,022.0	7,710.9	6,928.0	17.3	25.1	85.22	599.5	1,072.4	1,128.9	1,094.4	34.51	32.711				
7,800.0	7,022.0	7,810.9	6,928.0	18.6	26.0	85.22	699.5	1,072.4	1,128.9	1,091.8	37.05	30.466				
7,900.0	7,022.0	7,910.9	6,928.0	19.9	27.0	85.22	799.5	1,072.4	1,128.9	1,089.1	39.74	28.406				
8,000.0	7,022.0	8,010.9	6,928.0	21.3	28.0	85.22	899.5	1,072.4	1,128.9	1,086.3	42.55	26.533				
8,100.0	7,022.0	8,110.9	6,928.0	22.8	29.1	85.22	999.5	1,072.4	1,128.9	1,083.4	45.45	24.839				
8,200.0	7,022.0	8,210.9	6,928.0	24.3	30.3	85.22	1,099.5	1,072.4	1,128.9	1,080.5	48.43	23.311				
8,300.0	7,022.0	8,310.9	6,928.0	25.8	31.5	85.22	1,199.5	1,072.4	1,128.9	1,077.4	51.47	21.932				
8,400.0	7,022.0	8,410.9	6,928.0	27.4	32.8	85.22	1,299.5	1,072.4	1,128.9	1,074.3	54.57	20.686				
8,500.0	7,022.0	8,510.9	6,928.0	28.9	34.1	85.22	1,399.5	1,072.4	1,128.9	1,071.2	57.72	19.559				
8,600.0	7,022.0	8,610.9	6,928.0	30.5	35.5	85.22	1,499.5	1,072.4	1,128.9	1,068.0	60.90	18.537				
8,700.0	7,022.0	8,710.9	6,928.0	32.1	36.9	85.22	1,599.5	1,072.4	1,128.9	1,064.8	64.11	17.607				
8,800.0	7,022.0	8,810.9	6,928.0	33.8	38.3	85.22	1,699.5	1,072.4	1,128.9	1,061.5	67.36	16.759				

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 4D-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 4D-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		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)						
8,900.0	7,022.0	8,910.9	6,928.0	35.4	39.8	85.22	1,799.5	1,072.4	1,128.9	1,058.2	70.62	15.984		
9,000.0	7,022.0	9,010.9	6,928.0	37.1	41.2	85.22	1,899.5	1,072.4	1,128.9	1,055.0	73.91	15.273		
9,100.0	7,022.0	9,110.9	6,928.0	38.7	42.7	85.22	1,999.5	1,072.4	1,128.9	1,051.6	77.22	14.619		
9,200.0	7,022.0	9,210.9	6,928.0	40.4	44.3	85.22	2,099.5	1,072.4	1,128.9	1,048.3	80.54	14.016		
9,300.0	7,022.0	9,310.9	6,928.0	42.1	45.8	85.22	2,199.5	1,072.4	1,128.9	1,045.0	83.88	13.458		
9,400.0	7,022.0	9,410.9	6,928.0	43.7	47.3	85.22	2,299.5	1,072.4	1,128.9	1,041.6	87.23	12.941		
9,500.0	7,022.0	9,510.9	6,928.0	45.4	48.9	85.22	2,399.5	1,072.4	1,128.9	1,038.3	90.59	12.461		
9,600.0	7,022.0	9,610.9	6,928.0	47.1	50.5	85.22	2,499.5	1,072.4	1,128.9	1,034.9	93.96	12.014		
9,700.0	7,022.0	9,710.9	6,928.0	48.8	52.1	85.22	2,599.5	1,072.4	1,128.9	1,031.5	97.34	11.597		
9,800.0	7,022.0	9,810.9	6,928.0	50.5	53.7	85.22	2,699.5	1,072.4	1,128.9	1,028.1	100.73	11.207		
9,900.0	7,022.0	9,910.9	6,928.0	52.2	55.3	85.22	2,799.5	1,072.4	1,128.9	1,024.7	104.12	10.842		
10,000.0	7,022.0	10,010.9	6,928.0	53.9	56.9	85.22	2,899.5	1,072.4	1,128.9	1,021.3	107.52	10.499		
10,100.0	7,022.0	10,110.9	6,928.0	55.6	58.5	85.22	2,999.5	1,072.4	1,128.9	1,017.9	110.93	10.177		
10,200.0	7,022.0	10,210.9	6,928.0	57.3	60.1	85.22	3,099.5	1,072.4	1,128.9	1,014.5	114.34	9.873		
10,300.0	7,022.0	10,310.9	6,928.0	59.1	61.8	85.22	3,199.5	1,072.4	1,128.8	1,011.1	117.76	9.586		
10,400.0	7,022.0	10,410.9	6,928.0	60.8	63.4	85.22	3,299.5	1,072.4	1,128.8	1,007.7	121.18	9.316		
10,500.0	7,022.0	10,510.9	6,928.0	62.5	65.1	85.22	3,399.5	1,072.4	1,128.8	1,004.2	124.60	9.059		
10,600.0	7,022.0	10,610.9	6,928.0	64.2	66.7	85.22	3,499.5	1,072.4	1,128.8	1,000.8	128.03	8.817		
10,700.0	7,022.0	10,710.9	6,928.0	65.9	68.4	85.22	3,599.5	1,072.3	1,128.8	997.4	131.47	8.587		
10,800.0	7,022.0	10,810.9	6,928.0	67.7	70.0	85.22	3,699.5	1,072.3	1,128.8	993.9	134.90	8.368		
10,900.0	7,022.0	10,910.9	6,928.0	69.4	71.7	85.22	3,799.5	1,072.3	1,128.8	990.5	138.34	8.160		
11,000.0	7,022.0	11,010.9	6,928.0	71.1	73.4	85.22	3,899.5	1,072.3	1,128.8	987.1	141.78	7.962		
11,100.0	7,022.0	11,110.9	6,928.0	72.8	75.1	85.22	3,999.5	1,072.3	1,128.8	983.6	145.23	7.773		
11,200.0	7,022.0	11,210.9	6,928.0	74.6	76.7	85.22	4,099.5	1,072.3	1,128.8	980.2	148.68	7.593		
11,300.0	7,022.0	11,310.9	6,928.0	76.3	78.4	85.22	4,199.5	1,072.3	1,128.8	976.7	152.12	7.420		
11,400.0	7,022.0	11,410.9	6,928.0	78.0	80.1	85.22	4,299.5	1,072.3	1,128.8	973.3	155.58	7.256		
11,500.0	7,022.0	11,510.9	6,928.0	79.8	81.8	85.22	4,399.5	1,072.3	1,128.8	969.8	159.03	7.098		
11,590.6	7,022.0	11,601.5	6,928.0	81.3	83.3	85.22	4,490.1	1,072.3	1,128.8	966.7	162.16	6.961 SF		





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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	90.95	-0.7	44.7	44.8					
100.0	100.0	99.0	99.0	0.1	0.1	90.95	-0.7	44.7	44.8	44.5	0.24	184.076	CC, ES	
200.0	200.0	199.0	199.0	0.3	0.3	90.95	-0.7	44.7	44.8	44.2	0.59	75.640		
234.7	234.7	233.7	233.7	0.4	0.4	90.95	-0.7	44.7	44.8	44.0	0.71	62.800		
300.0	300.0	298.3	298.3	0.5	0.5	91.07	-0.8	45.1	45.2	44.2	0.94	48.064		
350.0	350.0	347.5	347.5	0.6	0.6	91.42	-1.1	46.4	46.4	45.3	1.11	41.679		
400.0	400.0	396.6	396.6	0.6	0.6	-97.75	-1.7	48.4	48.5	47.2	1.29	37.713		
500.0	500.0	494.7	494.4	0.8	0.8	-97.95	-3.3	54.9	55.4	53.8	1.63	33.891		
600.0	599.9	592.1	591.3	1.0	1.1	-98.89	-5.7	64.5	65.9	63.9	1.99	33.108		
694.5	694.3	683.4	681.8	1.2	1.3	-100.05	-8.7	76.5	79.0	76.7	2.34	33.850		
700.0	699.8	688.7	687.0	1.2	1.4	-100.13	-8.9	77.3	79.9	77.6	2.36	33.926		
800.0	799.6	784.3	781.3	1.4	1.7	-101.01	-12.9	92.9	97.3	94.6	2.73	35.656		
900.0	899.4	878.8	873.8	1.6	2.0	-101.17	-17.5	111.4	117.9	114.7	3.11	37.923		
1,000.0	999.2	972.0	964.4	1.8	2.4	-100.92	-22.8	132.5	141.5	138.0	3.49	40.561		
1,100.0	1,099.1	1,068.8	1,058.1	2.0	2.9	-100.59	-28.7	155.9	166.6	162.7	3.88	42.963		
1,200.0	1,198.9	1,165.6	1,151.9	2.2	3.3	-100.35	-34.6	179.3	191.6	187.4	4.27	44.913		
1,300.0	1,298.7	1,262.4	1,245.6	2.4	3.8	-100.16	-40.4	202.6	216.7	212.1	4.66	46.525		
1,400.0	1,398.5	1,359.2	1,339.4	2.6	4.2	-100.01	-46.3	226.0	241.8	236.8	5.05	47.879		
1,500.0	1,498.3	1,456.0	1,433.1	2.8	4.7	-99.89	-52.2	249.4	266.9	261.5	5.44	49.032		
1,600.0	1,598.2	1,552.8	1,526.9	3.0	5.1	-99.79	-58.1	272.7	292.0	286.2	5.84	50.025		
1,700.0	1,698.0	1,649.6	1,620.6	3.2	5.6	-99.71	-63.9	296.1	317.1	310.9	6.23	50.889		
1,800.0	1,797.8	1,746.4	1,714.4	3.4	6.1	-99.64	-69.8	319.5	342.2	335.6	6.63	51.647		
1,900.0	1,897.6	1,843.2	1,808.1	3.6	6.5	-99.58	-75.7	342.8	367.3	360.3	7.02	52.318		
2,000.0	1,997.4	1,940.0	1,901.9	3.8	7.0	-99.52	-81.6	366.2	392.4	385.0	7.42	52.915		
2,100.0	2,097.3	2,036.8	1,995.6	4.0	7.4	-99.48	-87.5	389.6	417.5	409.7	7.81	53.451		
2,200.0	2,197.1	2,133.6	2,089.4	4.2	7.9	-99.43	-93.3	412.9	442.6	434.4	8.21	53.934		
2,300.0	2,296.9	2,230.4	2,183.1	4.4	8.4	-99.40	-99.2	436.3	467.7	459.1	8.60	54.371		
2,400.0	2,396.7	2,327.2	2,276.9	4.6	8.8	-99.36	-105.1	459.7	492.8	483.9	9.00	54.770		
2,500.0	2,496.5	2,424.0	2,370.6	4.8	9.3	-99.33	-111.0	483.1	518.0	508.6	9.39	55.134		
2,600.0	2,596.3	2,520.8	2,464.4	5.0	9.8	-99.30	-116.8	506.4	543.1	533.3	9.79	55.468		
2,700.0	2,696.2	2,617.6	2,558.1	5.2	10.2	-99.28	-122.7	529.8	568.2	558.0	10.19	55.775		
2,800.0	2,796.0	2,714.4	2,651.9	5.4	10.7	-99.26	-128.6	553.2	593.3	582.7	10.58	56.059		
2,900.0	2,895.8	2,811.2	2,745.6	5.6	11.1	-99.23	-134.5	576.5	618.4	607.4	10.98	56.323		
3,000.0	2,995.6	2,907.9	2,839.4	5.8	11.6	-99.21	-140.3	599.9	643.5	632.1	11.38	56.567		
3,100.0	3,095.4	3,004.7	2,933.1	6.0	12.1	-99.20	-146.2	623.3	668.6	656.8	11.77	56.795		
3,200.0	3,195.3	3,101.5	3,026.9	6.2	12.5	-99.18	-152.1	646.6	693.7	681.5	12.17	57.008		
3,300.0	3,295.1	3,198.3	3,120.6	6.4	13.0	-99.16	-158.0	670.0	718.8	706.2	12.56	57.207		
3,400.0	3,394.9	3,295.1	3,214.4	6.6	13.5	-99.15	-163.8	693.4	743.9	730.9	12.96	57.393		
3,500.0	3,494.7	3,391.9	3,308.1	6.8	13.9	-99.14	-169.7	716.7	769.0	755.6	13.36	57.569		
3,600.0	3,594.5	3,488.7	3,401.9	7.0	14.4	-99.12	-175.6	740.1	794.1	780.3	13.75	57.734		
3,700.0	3,694.4	3,585.5	3,495.6	7.2	14.8	-99.11	-181.5	763.5	819.2	805.0	14.15	57.890		
3,800.0	3,794.2	3,682.3	3,589.4	7.4	15.3	-99.10	-187.3	786.9	844.3	829.7	14.55	58.037		
3,900.0	3,894.0	3,779.1	3,683.1	7.6	15.8	-99.09	-193.2	810.2	869.4	854.4	14.94	58.176		
4,000.0	3,993.8	3,875.9	3,776.9	7.9	16.2	-99.08	-199.1	833.6	894.5	879.2	15.34	58.308		
4,100.0	4,093.6	3,972.7	3,870.6	8.1	16.7	-99.07	-205.0	857.0	919.6	903.9	15.74	58.433		
4,200.0	4,193.5	4,069.5	3,964.4	8.3	17.2	-99.06	-210.9	880.3	944.7	928.6	16.13	58.552		
4,300.0	4,293.3	4,166.3	4,058.1	8.5	17.6	-99.05	-216.7	903.7	969.8	953.3	16.53	58.666		
4,400.0	4,393.1	4,263.1	4,151.9	8.7	18.1	-99.04	-222.6	927.1	994.9	978.0	16.93	58.773		
4,500.0	4,492.9	4,359.9	4,245.6	8.9	18.6	-99.04	-228.5	950.4	1,020.0	1,002.7	17.32	58.876		
4,600.0	4,592.7	4,456.7	4,339.4	9.1	19.0	-99.03	-234.4	973.8	1,045.1	1,027.4	17.72	58.974		
4,700.0	4,692.6	4,553.5	4,433.1	9.3	19.5	-99.02	-240.2	997.2	1,070.2	1,052.1	18.12	59.068		
4,800.0	4,792.4	4,650.3	4,526.9	9.5	19.9	-99.02	-246.1	1,020.6	1,095.3	1,076.8	18.52	59.158		

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 4D-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 4D-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				
4,900.0	4,892.2	4,747.1	4,620.6	9.7	20.4	-99.01	-252.0	1,043.9	1,120.4	1,101.5	18.91	59.244				
5,000.0	4,992.0	4,843.9	4,714.4	9.9	20.9	-99.00	-257.9	1,067.3	1,145.5	1,126.2	19.31	59.326				
5,100.0	5,091.8	4,940.7	4,808.1	10.1	21.3	-99.00	-263.7	1,090.7	1,170.6	1,150.9	19.71	59.405				
5,200.0	5,191.7	5,037.5	4,901.9	10.3	21.8	-98.99	-269.6	1,114.0	1,195.7	1,175.6	20.10	59.481				
5,300.0	5,291.5	5,134.3	4,995.6	10.5	22.3	-98.99	-275.5	1,137.4	1,220.8	1,200.3	20.50	59.554				
5,400.0	5,391.3	5,231.1	5,089.4	10.7	22.7	-98.98	-281.4	1,160.8	1,245.9	1,225.0	20.90	59.624				
5,500.0	5,491.1	5,327.9	5,183.1	10.9	23.2	-98.98	-287.2	1,184.1	1,271.0	1,249.8	21.29	59.692				
5,600.0	5,590.9	5,424.7	5,276.9	11.1	23.7	-98.97	-293.1	1,207.5	1,296.2	1,274.5	21.69	59.757				
5,664.9	5,655.7	5,529.6	5,378.8	11.2	24.1	-98.98	-299.1	1,231.4	1,311.6	1,289.6	22.03	59.540				
5,700.0	5,690.8	5,591.4	5,439.4	11.3	24.3	-99.08	-302.2	1,243.7	1,318.9	1,296.7	22.23	59.322				
5,800.0	5,790.7	5,770.5	5,616.0	11.5	24.9	-99.28	-309.4	1,272.4	1,335.7	1,312.9	22.78	58.627				
5,900.0	5,890.6	5,952.7	5,797.2	11.7	25.3	-99.40	-314.0	1,290.5	1,346.1	1,322.8	23.29	57.802				
6,009.4	6,000.0	6,153.9	5,998.2	11.8	25.5	90.03	-315.7	1,297.4	1,350.0	1,326.3	23.79	56.753				
6,100.0	6,090.6	6,245.3	6,089.6	12.0	25.6	90.03	-315.7	1,297.4	1,350.0	1,326.0	24.07	56.087				
6,200.0	6,190.6	6,345.3	6,189.6	12.1	25.6	90.03	-315.7	1,297.4	1,350.0	1,325.7	24.38	55.370				
6,300.0	6,290.6	6,445.3	6,289.6	12.3	25.7	90.03	-315.7	1,297.4	1,350.0	1,325.4	24.69	54.670				
6,400.0	6,390.6	6,545.3	6,389.6	12.4	25.8	90.03	-315.7	1,297.4	1,350.0	1,325.0	25.01	53.984				
6,458.4	6,449.0	6,603.7	6,448.0	12.5	25.8	90.03	-315.7	1,297.4	1,350.0	1,324.9	25.19	53.592				
6,500.0	6,490.6	6,645.4	6,489.6	12.6	25.8	90.03	-314.2	1,297.4	1,350.0	1,324.8	25.27	53.417				
6,550.0	6,540.2	6,695.4	6,539.3	12.6	25.9	90.02	-308.3	1,297.4	1,350.0	1,324.7	25.31	53.332				
6,600.0	6,589.2	6,745.5	6,588.3	12.6	25.8	90.02	-298.1	1,297.4	1,350.0	1,324.7	25.30	53.364				
6,650.0	6,637.1	6,795.5	6,636.2	12.5	25.8	90.02	-283.6	1,297.4	1,350.0	1,324.8	25.24	53.498				
6,700.0	6,683.5	6,845.5	6,682.6	12.5	25.8	90.01	-265.1	1,297.4	1,350.0	1,324.9	25.14	53.709				
6,750.0	6,728.2	6,895.5	6,727.3	12.4	25.8	90.01	-242.5	1,297.4	1,350.0	1,325.0	25.01	53.970				
6,800.0	6,770.7	6,945.5	6,769.8	12.4	25.7	90.00	-216.2	1,297.4	1,350.0	1,325.2	24.89	54.251				
6,850.0	6,810.8	6,995.5	6,809.8	12.3	25.7	90.00	-186.3	1,297.4	1,350.0	1,325.3	24.77	54.513				
6,900.0	6,848.2	7,045.5	6,847.1	12.3	25.7	89.99	-153.0	1,297.4	1,350.0	1,325.4	24.67	54.715				
6,950.0	6,882.5	7,095.5	6,881.3	12.2	25.7	89.99	-116.6	1,297.4	1,350.0	1,325.4	24.63	54.816				
7,000.0	6,913.5	7,145.5	6,912.2	12.2	25.7	89.98	-77.3	1,297.4	1,350.0	1,325.4	24.65	54.774				
7,050.0	6,941.0	7,195.5	6,939.6	12.3	25.7	89.98	-35.5	1,297.4	1,350.0	1,325.3	24.75	54.555				
7,100.0	6,964.7	7,245.4	6,963.2	12.4	25.7	89.98	8.4	1,297.4	1,350.0	1,325.1	24.94	54.133				
7,150.0	6,984.5	7,295.3	6,982.9	12.5	25.8	89.97	54.3	1,297.4	1,350.0	1,324.8	25.24	53.496				
7,200.0	7,000.2	7,345.3	6,998.5	12.7	25.9	89.97	101.7	1,297.4	1,350.0	1,324.4	25.64	52.647				
7,250.0	7,011.8	7,395.2	7,009.9	13.0	26.0	89.96	150.3	1,297.4	1,350.0	1,323.9	26.16	51.605				
7,300.0	7,019.0	7,445.1	7,017.1	13.3	26.1	89.96	199.7	1,297.4	1,350.0	1,323.3	26.79	50.401				
7,350.0	7,021.9	7,495.1	7,019.9	13.7	26.3	89.96	249.5	1,297.4	1,350.0	1,322.5	27.51	49.071				
7,358.4	7,022.0	7,503.5	7,020.0	13.7	26.4	89.96	258.0	1,297.4	1,350.0	1,322.4	27.64	48.842				
7,400.0	7,022.0	7,545.0	7,020.0	14.1	26.5	89.96	299.5	1,297.4	1,350.0	1,321.7	28.34	47.632				
7,500.0	7,022.0	7,645.0	7,020.0	15.0	27.0	89.96	399.5	1,297.4	1,350.0	1,319.8	30.21	44.685				
7,600.0	7,022.0	7,745.0	7,020.0	16.1	27.6	89.96	499.5	1,297.4	1,350.0	1,317.7	32.35	41.728				
7,700.0	7,022.0	7,845.0	7,020.0	17.3	28.3	89.96	599.5	1,297.4	1,350.0	1,315.3	34.72	38.885				
7,800.0	7,022.0	7,945.0	7,020.0	18.6	29.0	89.96	699.5	1,297.4	1,350.0	1,312.8	37.26	36.229				
7,900.0	7,022.0	8,045.0	7,020.0	19.9	29.9	89.96	799.5	1,297.4	1,350.0	1,310.1	39.96	33.788				
8,000.0	7,022.0	8,145.0	7,020.0	21.3	30.8	89.96	899.5	1,297.4	1,350.0	1,307.3	42.77	31.568				
8,100.0	7,022.0	8,245.0	7,020.0	22.8	31.8	89.96	999.5	1,297.4	1,350.0	1,304.4	45.67	29.558				
8,200.0	7,022.0	8,345.0	7,020.0	24.3	32.9	89.96	1,099.5	1,297.4	1,350.0	1,301.4	48.66	27.744				
8,300.0	7,022.0	8,445.0	7,020.0	25.8	34.0	89.96	1,199.5	1,297.4	1,350.0	1,298.3	51.71	26.107				
8,400.0	7,022.0	8,545.0	7,020.0	27.4	35.2	89.96	1,299.5	1,297.4	1,350.0	1,295.2	54.82	24.627				
8,500.0	7,022.0	8,645.0	7,020.0	28.9	36.5	89.96	1,399.5	1,297.4	1,350.0	1,292.1	57.97	23.288				
8,600.0	7,022.0	8,745.0	7,020.0	30.5	37.7	89.96	1,499.5	1,297.4	1,350.0	1,288.9	61.16	22.073				
8,700.0	7,022.0	8,845.0	7,020.0	32.1	39.0	89.96	1,599.5	1,297.4	1,350.0	1,285.6	64.39	20.967				
8,800.0	7,022.0	8,945.0	7,020.0	33.8	40.4	89.96	1,699.5	1,297.4	1,350.0	1,282.4	67.64	19.959				

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 4D-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 4D-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		
8,900.0	7,022.0	9,045.0	7,020.0	35.4	41.8	89.96	1,799.5	1,297.4	1,350.0	1,279.1	70.92	19.037		
9,000.0	7,022.0	9,145.0	7,020.0	37.1	43.2	89.96	1,899.5	1,297.4	1,350.0	1,275.8	74.22	18.191		
9,100.0	7,022.0	9,245.0	7,020.0	38.7	44.6	89.96	1,999.5	1,297.4	1,350.0	1,272.5	77.53	17.412		
9,200.0	7,022.0	9,345.0	7,020.0	40.4	46.0	89.96	2,099.5	1,297.4	1,350.0	1,269.2	80.87	16.695		
9,300.0	7,022.0	9,445.0	7,020.0	42.1	47.5	89.96	2,199.5	1,297.4	1,350.0	1,265.8	84.21	16.031		
9,400.0	7,022.0	9,545.0	7,020.0	43.7	49.0	89.96	2,299.5	1,297.4	1,350.0	1,262.5	87.57	15.416		
9,500.0	7,022.0	9,645.0	7,020.0	45.4	50.5	89.96	2,399.5	1,297.4	1,350.0	1,259.1	90.94	14.845		
9,600.0	7,022.0	9,745.0	7,020.0	47.1	52.1	89.96	2,499.5	1,297.4	1,350.0	1,255.7	94.32	14.313		
9,700.0	7,022.0	9,845.0	7,020.0	48.8	53.6	89.96	2,599.5	1,297.4	1,350.0	1,252.3	97.71	13.816		
9,800.0	7,022.0	9,945.0	7,020.0	50.5	55.1	89.96	2,699.5	1,297.4	1,350.0	1,248.9	101.11	13.352		
9,900.0	7,022.0	10,045.0	7,020.0	52.2	56.7	89.96	2,799.5	1,297.4	1,350.0	1,245.5	104.52	12.917		
10,000.0	7,022.0	10,145.0	7,020.0	53.9	58.3	89.96	2,899.5	1,297.4	1,350.0	1,242.1	107.93	12.508		
10,100.0	7,022.0	10,245.0	7,020.0	55.6	59.9	89.96	2,999.5	1,297.4	1,350.0	1,238.7	111.35	12.125		
10,200.0	7,022.0	10,345.0	7,020.0	57.3	61.5	89.96	3,099.5	1,297.4	1,350.0	1,235.2	114.77	11.763		
10,300.0	7,022.0	10,445.0	7,020.0	59.1	63.1	89.96	3,199.5	1,297.4	1,350.0	1,231.8	118.20	11.422		
10,400.0	7,022.0	10,545.0	7,020.0	60.8	64.7	89.96	3,299.5	1,297.4	1,350.0	1,228.4	121.63	11.099		
10,500.0	7,022.0	10,645.0	7,020.0	62.5	66.3	89.96	3,399.5	1,297.4	1,350.0	1,224.9	125.07	10.794		
10,600.0	7,022.0	10,745.0	7,020.0	64.2	67.9	89.96	3,499.5	1,297.4	1,350.0	1,221.5	128.51	10.505		
10,700.0	7,022.0	10,845.0	7,020.0	65.9	69.6	89.96	3,599.5	1,297.4	1,350.0	1,218.1	131.95	10.231		
10,800.0	7,022.0	10,945.0	7,020.0	67.7	71.2	89.96	3,699.5	1,297.4	1,350.0	1,214.6	135.40	9.971		
10,900.0	7,022.0	11,045.0	7,020.0	69.4	72.8	89.96	3,799.5	1,297.4	1,350.0	1,211.2	138.85	9.723		
11,000.0	7,022.0	11,145.0	7,020.0	71.1	74.5	89.96	3,899.5	1,297.4	1,350.0	1,207.7	142.30	9.487		
11,100.0	7,022.0	11,245.0	7,020.0	72.8	76.1	89.96	3,999.5	1,297.4	1,350.0	1,204.3	145.76	9.262		
11,200.0	7,022.0	11,345.0	7,020.0	74.6	77.8	89.96	4,099.5	1,297.4	1,350.0	1,200.8	149.22	9.047		
11,300.0	7,022.0	11,445.0	7,020.0	76.3	79.5	89.96	4,199.5	1,297.4	1,350.0	1,197.3	152.68	8.842		
11,400.0	7,022.0	11,545.0	7,020.0	78.0	81.1	89.96	4,299.5	1,297.4	1,350.0	1,193.9	156.14	8.646		
11,500.0	7,022.0	11,645.0	7,020.0	79.8	82.8	89.96	4,399.5	1,297.4	1,350.0	1,190.4	159.61	8.458		
11,590.6	7,022.0	11,735.6	7,020.0	81.3	84.3	89.96	4,490.1	1,297.4	1,350.0	1,187.3	162.75	8.295 SF		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		
0.0	0.0	0.0	0.0	0.0	0.0	90.80	-0.7	52.3	52.3					
100.0	100.0	99.0	99.0	0.1	0.1	90.80	-0.7	52.3	52.3	52.1	0.24	215.130		
200.0	200.0	199.0	199.0	0.3	0.3	90.80	-0.7	52.3	52.3	51.7	0.59	88.400 CC, ES		
300.0	300.0	297.2	297.2	0.5	0.5	91.14	-1.1	53.9	54.0	53.0	0.94	57.512		
350.0	350.0	346.3	346.2	0.6	0.6	91.55	-1.5	55.9	56.0	54.9	1.11	50.393		
400.0	400.0	395.2	395.0	0.6	0.7	-97.59	-2.1	58.8	59.0	57.7	1.28	45.948		
500.0	500.0	492.7	492.2	0.8	0.9	-97.69	-3.9	66.9	67.6	66.0	1.63	41.421		
600.0	599.9	589.5	588.3	1.0	1.1	-98.50	-6.3	78.2	79.8	77.8	1.99	40.166 SF		
694.5	694.3	680.1	677.9	1.2	1.4	-99.56	-9.1	91.5	94.5	92.2	2.33	40.572		
700.0	699.8	685.4	683.1	1.2	1.4	-99.64	-9.3	92.4	95.5	93.1	2.35	40.631		
800.0	799.6	780.2	776.2	1.4	1.8	-100.56	-13.0	109.5	114.6	111.8	2.72	42.096		
900.0	899.4	873.7	867.5	1.6	2.2	-100.89	-17.2	129.4	136.8	133.7	3.10	44.167		
1,000.0	999.2	965.8	956.7	1.8	2.6	-100.86	-22.0	151.8	162.1	158.6	3.47	46.641		
1,100.0	1,099.1	1,057.0	1,044.3	2.0	3.1	-100.62	-27.4	176.7	190.3	186.4	3.85	49.397		
1,200.0	1,198.9	1,152.6	1,135.8	2.2	3.6	-100.36	-33.2	203.9	219.7	215.4	4.24	51.806		
1,300.0	1,298.7	1,248.2	1,227.2	2.4	4.1	-100.16	-39.0	231.0	249.0	244.4	4.63	53.801		
1,400.0	1,398.5	1,343.8	1,318.7	2.6	4.6	-100.00	-44.8	258.2	278.4	273.4	5.02	55.478		
1,500.0	1,498.3	1,439.4	1,410.1	2.8	5.2	-99.87	-50.7	285.4	307.8	302.3	5.41	56.906		
1,600.0	1,598.2	1,535.0	1,501.6	3.0	5.7	-99.77	-56.5	312.5	337.1	331.3	5.80	58.138		
1,700.0	1,698.0	1,630.6	1,593.1	3.2	6.2	-99.68	-62.3	339.7	366.5	360.3	6.19	59.210		
1,800.0	1,797.8	1,726.1	1,684.5	3.4	6.7	-99.60	-68.1	366.9	395.9	389.3	6.58	60.152		
1,900.0	1,897.6	1,821.7	1,776.0	3.6	7.3	-99.54	-74.0	394.1	425.2	418.3	6.97	60.985		
2,000.0	1,997.4	1,917.3	1,867.4	3.8	7.8	-99.48	-79.8	421.2	454.6	447.2	7.36	61.728		
2,100.0	2,097.3	2,012.9	1,958.9	4.0	8.3	-99.43	-85.6	448.4	484.0	476.2	7.76	62.394		
2,200.0	2,197.1	2,108.5	2,050.4	4.2	8.8	-99.39	-91.4	475.6	513.4	505.2	8.15	62.995		
2,300.0	2,296.9	2,204.1	2,141.8	4.4	9.4	-99.35	-97.2	502.7	542.7	534.2	8.54	63.540		
2,400.0	2,396.7	2,299.7	2,233.3	4.6	9.9	-99.32	-103.1	529.9	572.1	563.2	8.93	64.036		
2,500.0	2,496.5	2,395.3	2,324.7	4.8	10.4	-99.28	-108.9	557.1	601.5	592.1	9.33	64.489		
2,600.0	2,596.3	2,490.8	2,416.2	5.0	11.0	-99.25	-114.7	584.3	630.8	621.1	9.72	64.905		
2,700.0	2,696.2	2,586.4	2,507.7	5.2	11.5	-99.23	-120.5	611.4	660.2	650.1	10.11	65.288		
2,800.0	2,796.0	2,682.0	2,599.1	5.4	12.0	-99.20	-126.3	638.6	689.6	679.1	10.51	65.643		
2,900.0	2,895.8	2,777.6	2,690.6	5.6	12.5	-99.18	-132.2	665.8	719.0	708.1	10.90	65.971		
3,000.0	2,995.6	2,873.2	2,782.0	5.8	13.1	-99.16	-138.0	692.9	748.3	737.1	11.29	66.276		
3,100.0	3,095.4	2,968.8	2,873.5	6.0	13.6	-99.14	-143.8	720.1	777.7	766.0	11.68	66.560		
3,200.0	3,195.3	3,064.4	2,965.0	6.2	14.1	-99.13	-149.6	747.3	807.1	795.0	12.08	66.825		
3,300.0	3,295.1	3,160.0	3,056.4	6.4	14.7	-99.11	-155.5	774.5	836.5	824.0	12.47	67.074		
3,400.0	3,394.9	3,255.6	3,147.9	6.6	15.2	-99.10	-161.3	801.6	865.8	853.0	12.86	67.307		
3,500.0	3,494.7	3,351.1	3,239.3	6.8	15.7	-99.08	-167.1	828.8	895.2	882.0	13.26	67.526		
3,600.0	3,594.5	3,446.7	3,330.8	7.0	16.2	-99.07	-172.9	856.0	924.6	910.9	13.65	67.732		
3,700.0	3,694.4	3,542.3	3,422.3	7.2	16.8	-99.06	-178.7	883.1	954.0	939.9	14.04	67.926		
3,800.0	3,794.2	3,637.9	3,513.7	7.4	17.3	-99.04	-184.6	910.3	983.3	968.9	14.44	68.110		
3,900.0	3,894.0	3,733.5	3,605.2	7.6	17.8	-99.03	-190.4	937.5	1,012.7	997.9	14.83	68.284		
4,000.0	3,993.8	3,829.1	3,696.6	7.9	18.4	-99.02	-196.2	964.7	1,042.1	1,026.9	15.22	68.449		
4,100.0	4,093.6	3,924.7	3,788.1	8.1	18.9	-99.01	-202.0	991.8	1,071.5	1,055.8	15.62	68.605		
4,200.0	4,193.5	4,020.3	3,879.6	8.3	19.4	-99.00	-207.8	1,019.0	1,100.8	1,084.8	16.01	68.754		
4,300.0	4,293.3	4,115.8	3,971.0	8.5	20.0	-98.99	-213.7	1,046.2	1,130.2	1,113.8	16.40	68.895		
4,400.0	4,393.1	4,211.4	4,062.5	8.7	20.5	-98.99	-219.5	1,073.3	1,159.6	1,142.8	16.80	69.030		
4,500.0	4,492.9	4,307.0	4,153.9	8.9	21.0	-98.98	-225.3	1,100.5	1,189.0	1,171.8	17.19	69.159		
4,600.0	4,592.7	4,402.6	4,245.4	9.1	21.6	-98.97	-231.1	1,127.7	1,218.3	1,200.8	17.59	69.281		
4,700.0	4,692.6	4,498.2	4,336.9	9.3	22.1	-98.96	-237.0	1,154.8	1,247.7	1,229.7	17.98	69.398		
4,800.0	4,792.4	4,593.8	4,428.3	9.5	22.6	-98.96	-242.8	1,182.0	1,277.1	1,258.7	18.37	69.511		
4,900.0	4,892.2	4,689.4	4,519.8	9.7	23.1	-98.95	-248.6	1,209.2	1,306.5	1,287.7	18.77	69.618		

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 4D-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 4D-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		
5,000.0	4,992.0	4,785.0	4,611.2	9.9	23.7	-98.94	-254.4	1,236.4	1,335.8	1,316.7	19.16	69.721		
5,100.0	5,091.8	4,880.5	4,702.7	10.1	24.2	-98.94	-260.2	1,263.5	1,365.2	1,345.7	19.55	69.820		
5,200.0	5,191.7	4,976.1	4,794.2	10.3	24.7	-98.93	-266.1	1,290.7	1,394.6	1,374.6	19.95	69.915		
5,300.0	5,291.5	5,071.7	4,885.6	10.5	25.3	-98.93	-271.9	1,317.9	1,424.0	1,403.6	20.34	70.006		
5,400.0	5,391.3	5,167.3	4,977.1	10.7	25.8	-98.92	-277.7	1,345.0	1,453.3	1,432.6	20.73	70.094		
5,500.0	5,491.1	5,262.9	5,068.5	10.9	26.3	-98.92	-283.5	1,372.2	1,482.7	1,461.6	21.13	70.178		
5,600.0	5,590.9	5,358.5	5,160.0	11.1	26.9	-98.91	-289.3	1,399.4	1,512.1	1,490.6	21.52	70.259		
5,664.9	5,655.7	5,480.2	5,277.1	11.2	27.5	-98.92	-296.3	1,431.9	1,530.1	1,508.2	21.89	69.891		
5,700.0	5,690.8	5,551.7	5,346.5	11.3	27.8	-99.03	-299.9	1,448.6	1,538.7	1,516.5	22.12	69.558		



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		
0.0	0.0	0.0	0.0	0.0	0.0	5.50	1,301.6	125.3	1,309.1					
100.0	100.0	37.0	37.0	0.1	0.1	5.50	1,301.6	125.3	1,307.6	1,307.4	0.19	6,994.336		
200.0	200.0	137.0	137.0	0.3	0.2	5.50	1,301.6	125.3	1,307.6	1,307.1	0.54	2,439.470		
300.0	300.0	237.0	237.0	0.5	0.4	5.50	1,301.6	125.3	1,307.6	1,306.7	0.89	1,477.373		
350.0	350.0	287.0	287.0	0.6	0.5	5.50	1,301.6	125.3	1,307.6	1,306.5	1.06	1,234.030		
400.0	400.0	337.0	337.0	0.6	0.6	176.02	1,301.6	125.3	1,307.8	1,306.6	1.23	1,059.716		
500.0	500.0	437.0	437.0	0.8	0.8	176.02	1,301.6	125.3	1,309.5	1,308.0	1.58	827.326		
600.0	599.9	536.9	536.9	1.0	0.9	176.03	1,301.6	125.3	1,313.0	1,311.1	1.93	679.913		
694.5	694.3	631.3	631.3	1.2	1.1	176.04	1,301.6	125.3	1,317.9	1,315.7	2.26	583.228		
700.0	699.8	636.8	636.8	1.2	1.1	176.04	1,301.6	125.3	1,318.2	1,316.0	2.28	578.445		
800.0	799.6	736.6	736.6	1.4	1.3	176.06	1,301.6	125.3	1,324.2	1,321.6	2.63	503.948		
900.0	899.4	836.4	836.4	1.6	1.5	176.08	1,301.6	125.3	1,330.2	1,327.3	2.98	446.911		
1,000.0	999.2	936.2	936.2	1.8	1.6	176.10	1,301.6	125.3	1,336.2	1,332.9	3.33	401.840		
1,100.0	1,099.1	1,036.1	1,036.1	2.0	1.8	176.11	1,301.6	125.3	1,342.2	1,338.6	3.67	365.326		
1,200.0	1,198.9	1,135.9	1,135.9	2.2	2.0	176.13	1,301.6	125.3	1,348.2	1,344.2	4.02	335.143		
1,300.0	1,298.7	1,235.7	1,235.7	2.4	2.2	176.15	1,301.6	125.3	1,354.2	1,349.8	4.37	309.777		
1,400.0	1,398.5	1,335.5	1,335.5	2.6	2.3	176.17	1,301.6	125.3	1,360.2	1,355.5	4.72	288.160		
1,500.0	1,498.3	1,435.3	1,435.3	2.8	2.5	176.18	1,301.6	125.3	1,366.2	1,361.1	5.07	269.517		
1,600.0	1,598.2	1,535.2	1,535.2	3.0	2.7	176.20	1,301.6	125.3	1,372.2	1,366.8	5.42	253.275		
1,700.0	1,698.0	1,635.0	1,635.0	3.2	2.9	176.22	1,301.6	125.3	1,378.2	1,372.4	5.77	238.997		
1,800.0	1,797.8	1,734.8	1,734.8	3.4	3.0	176.23	1,301.6	125.3	1,384.2	1,378.1	6.12	226.348		
1,900.0	1,897.6	1,834.6	1,834.6	3.6	3.2	176.25	1,301.6	125.3	1,390.2	1,383.7	6.46	215.064		
2,000.0	1,997.4	1,934.4	1,934.4	3.8	3.4	176.26	1,301.6	125.3	1,396.2	1,389.4	6.81	204.935		
2,100.0	2,097.3	2,034.3	2,034.3	4.0	3.6	176.28	1,301.6	125.3	1,402.2	1,395.0	7.16	195.793		
2,200.0	2,197.1	2,134.1	2,134.1	4.2	3.7	176.30	1,301.6	125.3	1,408.2	1,400.7	7.51	187.500		
2,300.0	2,296.9	2,233.9	2,233.9	4.4	3.9	176.31	1,301.6	125.3	1,414.2	1,406.3	7.86	179.943		
2,400.0	2,396.7	2,333.7	2,333.7	4.6	4.1	176.33	1,301.6	125.3	1,420.2	1,412.0	8.21	173.028		
2,500.0	2,496.5	2,433.5	2,433.5	4.8	4.2	176.34	1,301.6	125.3	1,426.2	1,417.6	8.56	166.677		
2,600.0	2,596.3	2,533.3	2,533.3	5.0	4.4	176.36	1,301.6	125.3	1,432.2	1,423.3	8.91	160.823		
2,700.0	2,696.2	2,633.2	2,633.2	5.2	4.6	176.37	1,301.6	125.3	1,438.2	1,428.9	9.25	155.410		
2,800.0	2,796.0	2,733.0	2,733.0	5.4	4.8	176.39	1,301.6	125.3	1,444.2	1,434.6	9.60	150.391		
2,900.0	2,895.8	2,832.8	2,832.8	5.6	4.9	176.40	1,301.6	125.3	1,450.2	1,440.2	9.95	145.724		
3,000.0	2,995.6	2,932.6	2,932.6	5.8	5.1	176.42	1,301.6	125.3	1,456.1	1,445.8	10.30	141.372		
3,100.0	3,095.4	3,032.4	3,032.4	6.0	5.3	176.43	1,301.6	125.3	1,462.1	1,451.5	10.65	137.306		
3,200.0	3,195.3	3,132.3	3,132.3	6.2	5.5	176.45	1,301.6	125.3	1,468.1	1,457.1	11.00	133.497		
3,300.0	3,295.1	3,232.1	3,232.1	6.4	5.6	176.46	1,301.6	125.3	1,474.1	1,462.8	11.35	129.923		
3,400.0	3,394.9	3,331.9	3,331.9	6.6	5.8	176.48	1,301.6	125.3	1,480.1	1,468.4	11.69	126.562		
3,500.0	3,494.7	3,431.7	3,431.7	6.8	6.0	176.49	1,301.6	125.3	1,486.1	1,474.1	12.04	123.395		
3,600.0	3,594.5	3,531.5	3,531.5	7.0	6.2	176.51	1,301.6	125.3	1,492.1	1,479.7	12.39	120.407		
3,700.0	3,694.4	3,631.4	3,631.4	7.2	6.3	176.52	1,301.6	125.3	1,498.1	1,485.4	12.74	117.583		
3,800.0	3,794.2	3,731.2	3,731.2	7.4	6.5	176.53	1,301.6	125.3	1,504.1	1,491.0	13.09	114.908		
3,900.0	3,894.0	3,831.0	3,831.0	7.6	6.7	176.55	1,301.6	125.3	1,510.1	1,496.7	13.44	112.373		
4,000.0	3,993.8	3,930.8	3,930.8	7.9	6.9	176.56	1,301.6	125.3	1,516.1	1,502.3	13.79	109.966		
4,100.0	4,093.6	4,030.6	4,030.6	8.1	7.0	176.57	1,301.6	125.3	1,522.1	1,508.0	14.14	107.678		
4,200.0	4,193.5	4,130.5	4,130.5	8.3	7.2	176.59	1,301.6	125.3	1,528.1	1,513.6	14.48	105.500		
4,300.0	4,293.3	4,230.3	4,230.3	8.5	7.4	176.60	1,301.6	125.3	1,534.1	1,519.3	14.83	103.424		
4,400.0	4,393.1	4,330.1	4,330.1	8.7	7.6	176.61	1,301.6	125.3	1,540.1	1,524.9	15.18	101.443		
4,500.0	4,492.9	4,429.9	4,429.9	8.9	7.7	176.63	1,301.6	125.3	1,546.1	1,530.6	15.53	99.552		
6,800.0	6,770.7	6,707.7	6,707.7	12.4	11.7	8.06	1,301.6	125.3	1,528.1	1,507.3	20.81	73.426		
6,850.0	6,810.8	6,747.8	6,747.8	12.3	11.8	8.76	1,301.6	125.3	1,498.5	1,478.3	20.24	74.053		
6,900.0	6,848.2	6,785.2	6,785.2	12.3	11.8	9.67	1,301.6	125.3	1,465.5	1,445.9	19.61	74.717		
6,950.0	6,882.5	6,819.5	6,819.5	12.2	11.9	10.86	1,301.6	125.3	1,429.4	1,410.5	18.98	75.325		

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 4D-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 4D-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)					
7,000.0	6,913.5	6,850.5	6,850.5	12.2	12.0	12.42	1,301.6	125.3	1,390.5	1,372.2	18.36	75.721	
7,050.0	6,941.0	6,878.0	6,878.0	12.3	12.0	14.54	1,301.6	125.3	1,349.1	1,331.3	17.83	75.650	
7,100.0	6,964.7	6,901.7	6,901.7	12.4	12.0	17.51	1,301.6	125.3	1,305.6	1,288.1	17.48	74.690	
7,150.0	6,984.5	6,921.5	6,921.5	12.5	12.1	21.84	1,301.6	125.3	1,260.1	1,242.6	17.46	72.182	
7,200.0	7,000.2	6,937.2	6,937.2	12.7	12.1	28.50	1,301.6	125.3	1,213.2	1,195.1	18.05	67.200	
7,250.0	7,011.8	6,948.8	6,948.8	13.0	12.1	39.39	1,301.6	125.3	1,165.1	1,145.3	19.75	58.986	
7,300.0	7,019.0	6,956.0	6,956.0	13.3	12.1	57.76	1,301.6	125.3	1,116.2	1,093.3	22.91	48.717	
7,350.0	7,021.9	6,958.9	6,958.9	13.7	12.1	85.02	1,301.6	125.3	1,067.0	1,041.3	25.72	41.488	
7,358.4	7,022.0	6,959.0	6,959.0	13.7	12.1	90.00	1,301.6	125.3	1,058.7	1,032.8	25.85	40.949	
7,400.0	7,022.0	6,959.0	6,959.0	14.1	12.1	90.00	1,301.6	125.3	1,017.7	991.5	26.20	38.849	
7,500.0	7,022.0	6,959.0	6,959.0	15.0	12.1	90.00	1,301.6	125.3	919.4	892.3	27.14	33.881	
7,600.0	7,022.0	6,959.0	6,959.0	16.1	12.1	90.00	1,301.6	125.3	821.5	793.3	28.21	29.118	
7,700.0	7,022.0	6,959.0	6,959.0	17.3	12.1	90.00	1,301.6	125.3	724.2	694.8	29.40	24.631	
7,800.0	7,022.0	6,959.0	6,959.0	18.6	12.1	90.00	1,301.6	125.3	627.8	597.1	30.68	20.461	
7,900.0	7,022.0	6,959.0	6,959.0	19.9	12.1	90.00	1,301.6	125.3	532.6	500.6	32.03	16.628	
8,000.0	7,022.0	6,959.0	6,959.0	21.3	12.1	90.00	1,301.6	125.3	439.6	406.2	33.44	13.146	
8,100.0	7,022.0	6,959.0	6,959.0	22.8	12.1	90.00	1,301.6	125.3	350.5	315.6	34.90	10.044	
8,200.0	7,022.0	6,959.0	6,959.0	24.3	12.1	90.00	1,301.6	125.3	269.2	232.8	36.40	7.396	
8,300.0	7,022.0	6,959.0	6,959.0	25.8	12.1	90.00	1,301.6	125.3	205.1	167.1	37.93	5.407	
8,400.0	7,022.0	6,959.0	6,959.0	27.4	12.1	90.00	1,301.6	125.3	177.9	138.4	39.48	4.505	
8,402.1	7,022.0	6,959.0	6,959.0	27.4	12.1	90.00	1,301.6	125.3	177.9	138.4	39.52	4.501 CC, ES, SF	
8,500.0	7,022.0	6,959.0	6,959.0	28.9	12.1	90.00	1,301.6	125.3	203.1	162.0	41.06	4.945	
8,600.0	7,022.0	6,959.0	6,959.0	30.5	12.1	90.00	1,301.6	125.3	266.1	223.5	42.66	6.238	
8,700.0	7,022.0	6,959.0	6,959.0	32.1	12.1	90.00	1,301.6	125.3	347.0	302.7	44.28	7.837	
8,800.0	7,022.0	6,959.0	6,959.0	33.8	12.1	90.00	1,301.6	125.3	435.9	390.0	45.90	9.496	
8,900.0	7,022.0	6,959.0	6,959.0	35.4	12.1	90.00	1,301.6	125.3	528.8	481.2	47.55	11.121	
9,000.0	7,022.0	6,959.0	6,959.0	37.1	12.1	90.00	1,301.6	125.3	623.8	574.6	49.20	12.681	
9,100.0	7,022.0	6,959.0	6,959.0	38.7	12.1	90.00	1,301.6	125.3	720.3	669.4	50.86	14.163	
9,200.0	7,022.0	6,959.0	6,959.0	40.4	12.1	90.00	1,301.6	125.3	817.5	765.0	52.52	15.565	
9,300.0	7,022.0	6,959.0	6,959.0	42.1	12.1	90.00	1,301.6	125.3	915.4	861.2	54.20	16.890	
9,400.0	7,022.0	6,959.0	6,959.0	43.7	12.1	90.00	1,301.6	125.3	1,013.7	957.8	55.88	18.140	
9,500.0	7,022.0	6,959.0	6,959.0	45.4	12.1	90.00	1,301.6	125.3	1,112.3	1,054.7	57.57	19.321	
9,600.0	7,022.0	6,959.0	6,959.0	47.1	12.1	90.00	1,301.6	125.3	1,211.1	1,151.8	59.26	20.437	
9,700.0	7,022.0	6,959.0	6,959.0	48.8	12.1	90.00	1,301.6	125.3	1,310.1	1,249.1	60.95	21.493	
9,800.0	7,022.0	6,959.0	6,959.0	50.5	12.1	90.00	1,301.6	125.3	1,409.2	1,346.6	62.65	22.492	
9,900.0	7,022.0	6,959.0	6,959.0	52.2	12.1	90.00	1,301.6	125.3	1,508.5	1,444.1	64.36	23.439	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,500.0	7,022.0	6,928.0	6,928.0	45.4	12.1	90.00	3,911.6	114.6	1,521.3	1,463.8	57.51	26.452	
9,600.0	7,022.0	6,928.0	6,928.0	47.1	12.1	90.00	3,911.6	114.6	1,422.0	1,362.8	59.20	24.018	
9,700.0	7,022.0	6,928.0	6,928.0	48.8	12.1	90.00	3,911.6	114.6	1,322.7	1,261.8	60.90	21.720	
9,800.0	7,022.0	6,928.0	6,928.0	50.5	12.1	90.00	3,911.6	114.6	1,223.6	1,161.0	62.60	19.546	
9,900.0	7,022.0	6,928.0	6,928.0	52.2	12.1	90.00	3,911.6	114.6	1,124.6	1,060.3	64.30	17.489	
10,000.0	7,022.0	6,928.0	6,928.0	53.9	12.1	90.00	3,911.6	114.6	1,025.8	959.8	66.01	15.541	
10,100.0	7,022.0	6,928.0	6,928.0	55.6	12.1	90.00	3,911.6	114.6	927.3	859.6	67.72	13.693	
10,200.0	7,022.0	6,928.0	6,928.0	57.3	12.1	90.00	3,911.6	114.6	829.2	759.7	69.43	11.942	
10,300.0	7,022.0	6,928.0	6,928.0	59.1	12.1	90.00	3,911.6	114.6	731.5	660.3	71.15	10.281	
10,400.0	7,022.0	6,928.0	6,928.0	60.8	12.1	90.00	3,911.6	114.6	634.5	561.7	72.86	8.709	
10,500.0	7,022.0	6,928.0	6,928.0	62.5	12.1	90.00	3,911.6	114.6	538.7	464.1	74.58	7.223	
10,600.0	7,022.0	6,928.0	6,928.0	64.2	12.1	90.00	3,911.6	114.6	444.8	368.4	76.30	5.829	
10,700.0	7,022.0	6,928.0	6,928.0	65.9	12.1	90.00	3,911.6	114.6	354.1	276.1	78.03	4.538	
10,800.0	7,022.0	6,928.0	6,928.0	67.7	12.1	90.00	3,911.6	114.6	270.1	190.4	79.75	3.387	
10,900.0	7,022.0	6,928.0	6,928.0	69.4	12.1	90.00	3,911.6	114.6	201.3	119.9	81.48	2.471	
11,000.0	7,022.0	6,928.0	6,928.0	71.1	12.1	90.00	3,911.6	114.6	167.7	84.5	83.20	2.015	
11,012.1	7,022.0	6,928.0	6,928.0	71.3	12.1	90.00	3,911.6	114.6	167.2	83.8	83.41	2.005 CC, ES, SF	
11,100.0	7,022.0	6,928.0	6,928.0	72.8	12.1	90.00	3,911.6	114.6	188.9	104.0	84.93	2.224	
11,200.0	7,022.0	6,928.0	6,928.0	74.6	12.1	90.00	3,911.6	114.6	251.5	164.9	86.66	2.902	
11,300.0	7,022.0	6,928.0	6,928.0	76.3	12.1	90.00	3,911.6	114.6	332.9	244.5	88.39	3.766	
11,400.0	7,022.0	6,928.0	6,928.0	78.0	12.1	90.00	3,911.6	114.6	422.4	332.3	90.13	4.687	
11,500.0	7,022.0	6,928.0	6,928.0	79.8	12.1	90.00	3,911.6	114.6	515.7	423.9	91.86	5.615	
11,590.6	7,022.0	6,928.0	6,928.0	81.3	12.1	90.00	3,911.6	114.6	602.2	508.7	93.43	6.445	





# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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		
7,250.0	7,011.8	6,942.8	6,942.8	13.0	12.1	-31.76	1,674.6	-230.2	1,534.7	1,516.3	18.45	83.187		
7,300.0	7,019.0	6,950.0	6,950.0	13.3	12.1	-49.78	1,674.6	-230.2	1,485.6	1,463.9	21.68	68.525		
7,350.0	7,021.9	6,952.9	6,952.9	13.7	12.1	-83.26	1,674.6	-230.2	1,436.1	1,410.4	25.66	55.957		
7,358.4	7,022.0	6,953.0	6,953.0	13.7	12.1	-90.00	1,674.6	-230.2	1,427.7	1,401.9	25.84	55.246		
7,400.0	7,022.0	6,953.0	6,953.0	14.1	12.1	-90.00	1,674.6	-230.2	1,386.5	1,360.3	26.19	52.947		
7,500.0	7,022.0	6,953.0	6,953.0	15.0	12.1	-90.00	1,674.6	-230.2	1,287.4	1,260.3	27.13	47.458		
7,600.0	7,022.0	6,953.0	6,953.0	16.1	12.1	-90.00	1,674.6	-230.2	1,188.4	1,160.2	28.20	42.136		
7,700.0	7,022.0	6,953.0	6,953.0	17.3	12.1	-90.00	1,674.6	-230.2	1,089.6	1,060.2	29.39	37.072		
7,800.0	7,022.0	6,953.0	6,953.0	18.6	12.1	-90.00	1,674.6	-230.2	991.1	960.4	30.67	32.314		
7,900.0	7,022.0	6,953.0	6,953.0	19.9	12.1	-90.00	1,674.6	-230.2	892.9	860.9	32.02	27.884		
8,000.0	7,022.0	6,953.0	6,953.0	21.3	12.1	-90.00	1,674.6	-230.2	795.2	761.7	33.43	23.784		
8,100.0	7,022.0	6,953.0	6,953.0	22.8	12.1	-90.00	1,674.6	-230.2	698.0	663.1	34.89	20.006		
8,200.0	7,022.0	6,953.0	6,953.0	24.3	12.1	-90.00	1,674.6	-230.2	601.9	565.5	36.39	16.540		
8,300.0	7,022.0	6,953.0	6,953.0	25.8	12.1	-90.00	1,674.6	-230.2	507.2	469.3	37.92	13.376		
8,400.0	7,022.0	6,953.0	6,953.0	27.4	12.1	-90.00	1,674.6	-230.2	415.0	375.5	39.47	10.513		
8,500.0	7,022.0	6,953.0	6,953.0	28.9	12.1	-90.00	1,674.6	-230.2	327.4	286.4	41.05	7.975		
8,600.0	7,022.0	6,953.0	6,953.0	30.5	12.1	-90.00	1,674.6	-230.2	249.4	206.7	42.65	5.846		
8,700.0	7,022.0	6,953.0	6,953.0	32.1	12.1	-90.00	1,674.6	-230.2	192.8	148.5	44.27	4.355		
8,775.1	7,022.0	6,953.0	6,953.0	33.4	12.1	-90.00	1,674.6	-230.2	177.6	132.1	45.49	3.904	CC, ES, SF	
8,800.0	7,022.0	6,953.0	6,953.0	33.8	12.1	-90.00	1,674.6	-230.2	179.3	133.4	45.89	3.907		
8,900.0	7,022.0	6,953.0	6,953.0	35.4	12.1	-90.00	1,674.6	-230.2	217.1	169.6	47.53	4.567		
9,000.0	7,022.0	6,953.0	6,953.0	37.1	12.1	-90.00	1,674.6	-230.2	286.6	237.4	49.19	5.826		
9,100.0	7,022.0	6,953.0	6,953.0	38.7	12.1	-90.00	1,674.6	-230.2	370.3	319.4	50.85	7.282		
9,200.0	7,022.0	6,953.0	6,953.0	40.4	12.1	-90.00	1,674.6	-230.2	460.5	408.0	52.51	8.770		
9,300.0	7,022.0	6,953.0	6,953.0	42.1	12.1	-90.00	1,674.6	-230.2	554.1	500.0	54.19	10.226		
9,400.0	7,022.0	6,953.0	6,953.0	43.7	12.1	-90.00	1,674.6	-230.2	649.7	593.8	55.87	11.628		
9,500.0	7,022.0	6,953.0	6,953.0	45.4	12.1	-90.00	1,674.6	-230.2	746.4	688.8	57.56	12.967		
9,600.0	7,022.0	6,953.0	6,953.0	47.1	12.1	-90.00	1,674.6	-230.2	843.8	784.6	59.25	14.242		
9,700.0	7,022.0	6,953.0	6,953.0	48.8	12.1	-90.00	1,674.6	-230.2	941.8	880.9	60.94	15.454		
9,800.0	7,022.0	6,953.0	6,953.0	50.5	12.1	-90.00	1,674.6	-230.2	1,040.2	977.6	62.64	16.605		
9,900.0	7,022.0	6,953.0	6,953.0	52.2	12.1	-90.00	1,674.6	-230.2	1,138.9	1,074.5	64.35	17.699		
10,000.0	7,022.0	6,953.0	6,953.0	53.9	12.1	-90.00	1,674.6	-230.2	1,237.7	1,171.7	66.05	18.738		
10,100.0	7,022.0	6,953.0	6,953.0	55.6	12.1	-90.00	1,674.6	-230.2	1,336.8	1,269.0	67.76	19.727		
10,200.0	7,022.0	6,953.0	6,953.0	57.3	12.1	-90.00	1,674.6	-230.2	1,435.9	1,366.5	69.48	20.668		
10,300.0	7,022.0	6,953.0	6,953.0	59.1	12.1	-90.00	1,674.6	-230.2	1,535.2	1,464.0	71.19	21.565		

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Dale 4D-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 4D-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 4D-20H-O264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

