

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site:</b>	S33-T4S-R96W (E34 496)	<b>North Reference:</b>	True
<b>Well:</b>	8511D-34 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

<b>Project</b>	Story Gulch		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		

Site		S33-T4S-R96W (E34 496)			
Site Position:		Northing:	1,676,257.20 ft	Latitude:	39° 39' 36.020 N
From:	Lat/Long	Easting:	2,251,040.13 ft	Longitude:	108° 9' 38.140 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	8511D-34 E34 496					
Well Position	+N/-S	0.0 ft	Northing:	1,676,180.39 ft	Latitude:	39° 39' 35.260 N
	+E/-W	0.0 ft	Easting:	2,251,035.54 ft	Longitude:	108° 9' 38.170 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	8,301.0 ft

<b>Wellbore</b>	DD				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	6/19/2012	10.32	65.82	52,197

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	164.01

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
768.4	10.37	163.22	765.6	-44.8	13.5	2.00	2.00	0.00	163.22	
7,160.6	10.37	163.22	7,053.4	-1,146.2	345.6	0.00	0.00	0.00	0.00	
7,679.0	0.00	0.00	7,569.0	-1,191.0	359.1	2.00	-2.00	0.00	180.00	E34 496 8511D-34 TC
7,723.6	0.22	236.19	7,613.6	-1,191.0	359.0	0.50	0.50	-277.74	236.19	
12,334.1	0.22	236.19	12,224.0	-1,201.0	344.1	0.00	0.00	0.00	0.00	E34 496 8511D-34 PE
12,484.1	0.22	236.19	12,374.0	-1,201.4	343.6	0.00	0.00	0.00	0.00	

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<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site:</b>	S33-T4S-R96W (E34 496)	<b>North Reference:</b>	True
<b>Well:</b>	8511D-34 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250'
300.0	1.00	163.22	300.0	-0.4	0.1	0.4	2.00	2.00	
400.0	3.00	163.22	399.9	-3.8	1.1	3.9	2.00	2.00	
500.0	5.00	163.22	499.7	-10.4	3.1	10.9	2.00	2.00	
600.0	7.00	163.22	599.1	-20.4	6.2	21.4	2.00	2.00	
700.0	9.00	163.22	698.2	-33.8	10.2	35.3	2.00	2.00	
768.4	10.37	163.22	765.6	-44.8	13.5	46.8	2.00	2.00	EOB; Inc=10.37°
800.0	10.37	163.22	796.7	-50.2	15.1	52.5	0.00	0.00	
900.0	10.37	163.22	895.0	-67.5	20.3	70.5	0.00	0.00	
1,000.0	10.37	163.22	993.4	-84.7	25.5	88.4	0.00	0.00	
1,100.0	10.37	163.22	1,091.8	-101.9	30.7	106.4	0.00	0.00	
1,185.6	10.37	163.22	1,176.0	-116.7	35.2	121.9	0.00	0.00	A_GROOVE_TVD
1,200.0	10.37	163.22	1,190.1	-119.2	35.9	124.4	0.00	0.00	
1,300.0	10.37	163.22	1,288.5	-136.4	41.1	142.4	0.00	0.00	
1,342.2	10.37	163.22	1,330.0	-143.7	43.3	150.0	0.00	0.00	B_GROOVE_TVD
1,365.6	10.37	163.22	1,353.0	-147.7	44.5	154.2	0.00	0.00	B_GROOVE_BASE_TVD
1,400.0	10.37	163.22	1,386.9	-153.6	46.3	160.4	0.00	0.00	
1,500.0	10.37	163.22	1,485.2	-170.8	51.5	178.4	0.00	0.00	
1,600.0	10.37	163.22	1,583.6	-188.1	56.7	196.4	0.00	0.00	
1,700.0	10.37	163.22	1,682.0	-205.3	61.9	214.4	0.00	0.00	
1,800.0	10.37	163.22	1,780.3	-222.5	67.1	232.4	0.00	0.00	
1,900.0	10.37	163.22	1,878.7	-239.8	72.3	250.4	0.00	0.00	
2,000.0	10.37	163.22	1,977.1	-257.0	77.5	268.4	0.00	0.00	
2,100.0	10.37	163.22	2,075.4	-274.2	82.7	286.4	0.00	0.00	
2,200.0	10.37	163.22	2,173.8	-291.5	87.9	304.4	0.00	0.00	
2,296.8	10.37	163.22	2,269.0	-308.1	92.9	321.8	0.00	0.00	GARDEN_GULCH_TVD
2,300.0	10.37	163.22	2,272.2	-308.7	93.1	322.4	0.00	0.00	
2,400.0	10.37	163.22	2,370.5	-325.9	98.3	340.4	0.00	0.00	
2,500.0	10.37	163.22	2,468.9	-343.2	103.5	358.4	0.00	0.00	
2,600.0	10.37	163.22	2,567.3	-360.4	108.7	376.4	0.00	0.00	
2,700.0	10.37	163.22	2,665.6	-377.6	113.9	394.4	0.00	0.00	
2,800.0	10.37	163.22	2,764.0	-394.8	119.1	412.4	0.00	0.00	
2,900.0	10.37	163.22	2,862.4	-412.1	124.2	430.4	0.00	0.00	
3,000.0	10.37	163.22	2,960.7	-429.3	129.4	448.4	0.00	0.00	
3,100.0	10.37	163.22	3,059.1	-446.5	134.6	466.3	0.00	0.00	
3,200.0	10.37	163.22	3,157.5	-463.8	139.8	484.3	0.00	0.00	
3,300.0	10.37	163.22	3,255.8	-481.0	145.0	502.3	0.00	0.00	
3,347.9	10.37	163.22	3,303.0	-489.3	147.5	511.0	0.00	0.00	WASATCH_FM_TVD
3,400.0	10.37	163.22	3,354.2	-498.2	150.2	520.3	0.00	0.00	
3,500.0	10.37	163.22	3,452.6	-515.5	155.4	538.3	0.00	0.00	
3,600.0	10.37	163.22	3,550.9	-532.7	160.6	556.3	0.00	0.00	
3,700.0	10.37	163.22	3,649.3	-549.9	165.8	574.3	0.00	0.00	
3,800.0	10.37	163.22	3,747.7	-567.2	171.0	592.3	0.00	0.00	
3,900.0	10.37	163.22	3,846.0	-584.4	176.2	610.3	0.00	0.00	
4,000.0	10.37	163.22	3,944.4	-601.6	181.4	628.3	0.00	0.00	
4,100.0	10.37	163.22	4,042.8	-618.8	186.6	646.3	0.00	0.00	
4,200.0	10.37	163.22	4,141.1	-636.1	191.8	664.3	0.00	0.00	
4,300.0	10.37	163.22	4,239.5	-653.3	197.0	682.3	0.00	0.00	
4,400.0	10.37	163.22	4,337.9	-670.5	202.2	700.3	0.00	0.00	

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<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site:</b>	S33-T4S-R96W (E34 496)	<b>North Reference:</b>	True
<b>Well:</b>	8511D-34 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,500.0	10.37	163.22	4,436.2	-687.8	207.4	718.3	0.00	0.00	
4,600.0	10.37	163.22	4,534.6	-705.0	212.6	736.3	0.00	0.00	
4,700.0	10.37	163.22	4,633.0	-722.2	217.8	754.3	0.00	0.00	
4,800.0	10.37	163.22	4,731.3	-739.5	223.0	772.3	0.00	0.00	
4,900.0	10.37	163.22	4,829.7	-756.7	228.2	790.3	0.00	0.00	
5,000.0	10.37	163.22	4,928.1	-773.9	233.3	808.3	0.00	0.00	
5,100.0	10.37	163.22	5,026.4	-791.2	238.5	826.3	0.00	0.00	
5,200.0	10.37	163.22	5,124.8	-808.4	243.7	844.3	0.00	0.00	
5,300.0	10.37	163.22	5,223.2	-825.6	248.9	862.2	0.00	0.00	
5,400.0	10.37	163.22	5,321.6	-842.8	254.1	880.2	0.00	0.00	
5,500.0	10.37	163.22	5,419.9	-860.1	259.3	898.2	0.00	0.00	
5,519.4	10.37	163.22	5,439.0	-863.4	260.3	901.7	0.00	0.00	WASATCH_G_TVD
5,600.0	10.37	163.22	5,518.3	-877.3	264.5	916.2	0.00	0.00	
5,700.0	10.37	163.22	5,616.7	-894.5	269.7	934.2	0.00	0.00	
5,800.0	10.37	163.22	5,715.0	-911.8	274.9	952.2	0.00	0.00	
5,900.0	10.37	163.22	5,813.4	-929.0	280.1	970.2	0.00	0.00	
6,000.0	10.37	163.22	5,911.8	-946.2	285.3	988.2	0.00	0.00	
6,100.0	10.37	163.22	6,010.1	-963.5	290.5	1,006.2	0.00	0.00	
6,200.0	10.37	163.22	6,108.5	-980.7	295.7	1,024.2	0.00	0.00	
6,300.0	10.37	163.22	6,206.9	-997.9	300.9	1,042.2	0.00	0.00	
6,400.0	10.37	163.22	6,305.2	-1,015.2	306.1	1,060.2	0.00	0.00	
6,500.0	10.37	163.22	6,403.6	-1,032.4	311.3	1,078.2	0.00	0.00	
6,600.0	10.37	163.22	6,502.0	-1,049.6	316.5	1,096.2	0.00	0.00	
6,700.0	10.37	163.22	6,600.3	-1,066.8	321.7	1,114.2	0.00	0.00	
6,800.0	10.37	163.22	6,698.7	-1,084.1	326.9	1,132.2	0.00	0.00	
6,900.0	10.37	163.22	6,797.1	-1,101.3	332.1	1,150.2	0.00	0.00	
7,000.0	10.37	163.22	6,895.4	-1,118.5	337.3	1,168.2	0.00	0.00	
7,100.0	10.37	163.22	6,993.8	-1,135.8	342.4	1,186.2	0.00	0.00	
7,160.6	10.37	163.22	7,053.4	-1,146.2	345.6	1,197.1	0.00	0.00	Start Drop -2.00
7,200.0	9.58	163.22	7,092.2	-1,152.7	347.6	1,203.9	2.00	-2.00	
7,300.0	7.58	163.22	7,191.1	-1,167.0	351.9	1,218.8	2.00	-2.00	
7,400.0	5.58	163.22	7,290.4	-1,178.0	355.2	1,230.3	2.00	-2.00	
7,500.0	3.58	163.22	7,390.1	-1,185.6	357.5	1,238.2	2.00	-2.00	
7,600.0	1.58	163.22	7,490.0	-1,190.0	358.8	1,242.8	2.00	-2.00	
7,679.0	0.00	0.00	7,569.0	-1,191.0	359.1	1,243.8	2.00	-2.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
7,700.0	0.10	236.19	7,590.0	-1,191.0	359.1	1,243.8	0.50	0.50	
7,723.6	0.22	236.19	7,613.6	-1,191.0	359.0	1,243.9	0.50	0.50	
7,800.0	0.22	236.19	7,690.0	-1,191.2	358.8	1,244.0	0.00	0.00	
7,900.0	0.22	236.19	7,790.0	-1,191.4	358.5	1,244.1	0.00	0.00	
8,000.0	0.22	236.19	7,890.0	-1,191.6	358.1	1,244.2	0.00	0.00	
8,100.0	0.22	236.19	7,990.0	-1,191.9	357.8	1,244.3	0.00	0.00	
8,200.0	0.22	236.19	8,090.0	-1,192.1	357.5	1,244.4	0.00	0.00	
8,300.0	0.22	236.19	8,190.0	-1,192.3	357.2	1,244.6	0.00	0.00	
8,400.0	0.22	236.19	8,290.0	-1,192.5	356.8	1,244.7	0.00	0.00	
8,500.0	0.22	236.19	8,390.0	-1,192.7	356.5	1,244.8	0.00	0.00	
8,600.0	0.22	236.19	8,490.0	-1,192.9	356.2	1,244.9	0.00	0.00	
8,700.0	0.22	236.19	8,590.0	-1,193.2	355.9	1,245.0	0.00	0.00	
8,800.0	0.22	236.19	8,690.0	-1,193.4	355.5	1,245.1	0.00	0.00	
8,900.0	0.22	236.19	8,790.0	-1,193.6	355.2	1,245.3	0.00	0.00	
9,000.0	0.22	236.19	8,890.0	-1,193.8	354.9	1,245.4	0.00	0.00	
9,100.0	0.22	236.19	8,990.0	-1,194.0	354.6	1,245.5	0.00	0.00	
9,200.0	0.22	236.19	9,090.0	-1,194.2	354.3	1,245.6	0.00	0.00	

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<b>Well:</b>	8511D-34 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	0.22	236.19	9,190.0	-1,194.5	353.9	1,245.7	0.00	0.00	
9,400.0	0.22	236.19	9,290.0	-1,194.7	353.6	1,245.9	0.00	0.00	
9,500.0	0.22	236.19	9,390.0	-1,194.9	353.3	1,246.0	0.00	0.00	
9,600.0	0.22	236.19	9,490.0	-1,195.1	353.0	1,246.1	0.00	0.00	
9,700.0	0.22	236.19	9,590.0	-1,195.3	352.6	1,246.2	0.00	0.00	
9,800.0	0.22	236.19	9,690.0	-1,195.5	352.3	1,246.3	0.00	0.00	
9,900.0	0.22	236.19	9,790.0	-1,195.8	352.0	1,246.5	0.00	0.00	
10,000.0	0.22	236.19	9,890.0	-1,196.0	351.7	1,246.6	0.00	0.00	
10,100.0	0.22	236.19	9,990.0	-1,196.2	351.3	1,246.7	0.00	0.00	
10,200.0	0.22	236.19	10,090.0	-1,196.4	351.0	1,246.8	0.00	0.00	
10,300.0	0.22	236.19	10,190.0	-1,196.6	350.7	1,246.9	0.00	0.00	
10,400.0	0.22	236.19	10,290.0	-1,196.8	350.4	1,247.1	0.00	0.00	
10,500.0	0.22	236.19	10,390.0	-1,197.1	350.1	1,247.2	0.00	0.00	
10,600.0	0.22	236.19	10,490.0	-1,197.3	349.7	1,247.3	0.00	0.00	
10,700.0	0.22	236.19	10,590.0	-1,197.5	349.4	1,247.4	0.00	0.00	
10,800.0	0.22	236.19	10,690.0	-1,197.7	349.1	1,247.5	0.00	0.00	
10,890.0	0.22	236.19	10,780.0	-1,197.9	348.8	1,247.6	0.00	0.00	CAMEO_TVD
10,900.0	0.22	236.19	10,790.0	-1,197.9	348.8	1,247.6	0.00	0.00	
11,000.0	0.22	236.19	10,890.0	-1,198.1	348.4	1,247.8	0.00	0.00	
11,100.0	0.22	236.19	10,990.0	-1,198.4	348.1	1,247.9	0.00	0.00	
11,200.0	0.22	236.19	11,090.0	-1,198.6	347.8	1,248.0	0.00	0.00	
11,300.0	0.22	236.19	11,190.0	-1,198.8	347.5	1,248.1	0.00	0.00	
11,318.0	0.22	236.19	11,208.0	-1,198.8	347.4	1,248.1	0.00	0.00	ROLLINS_TVD
11,400.0	0.22	236.19	11,290.0	-1,199.0	347.1	1,248.2	0.00	0.00	
11,500.0	0.22	236.19	11,390.0	-1,199.2	346.8	1,248.4	0.00	0.00	
11,549.0	0.22	236.19	11,439.0	-1,199.3	346.7	1,248.4	0.00	0.00	COZZETTE_TVD
11,600.0	0.22	236.19	11,489.9	-1,199.4	346.5	1,248.5	0.00	0.00	
11,700.0	0.22	236.19	11,589.9	-1,199.7	346.2	1,248.6	0.00	0.00	
11,734.1	0.22	236.19	11,624.0	-1,199.7	346.1	1,248.6	0.00	0.00	CORCORAN_TVD
11,800.0	0.22	236.19	11,689.9	-1,199.9	345.9	1,248.7	0.00	0.00	
11,900.0	0.22	236.19	11,789.9	-1,200.1	345.5	1,248.8	0.00	0.00	
12,000.0	0.22	236.19	11,889.9	-1,200.3	345.2	1,249.0	0.00	0.00	
12,034.1	0.22	236.19	11,924.0	-1,200.4	345.1	1,249.0	0.00	0.00	UPPER_SEGO_TVD
12,100.0	0.22	236.19	11,989.9	-1,200.5	344.9	1,249.1	0.00	0.00	
12,184.1	0.22	236.19	12,074.0	-1,200.7	344.6	1,249.2	0.00	0.00	SEGO_BASE_TARGET_TVD
12,200.0	0.22	236.19	12,089.9	-1,200.7	344.6	1,249.2	0.00	0.00	
12,300.0	0.22	236.19	12,189.9	-1,201.0	344.2	1,249.3	0.00	0.00	
12,334.1	0.22	236.19	12,224.0	-1,201.0	344.1	1,249.4	0.00	0.00	Drillers TD @ 12,334' MD - E34 496 8511D-34 I
12,400.0	0.22	236.19	12,289.9	-1,201.2	343.9	1,249.4	0.00	0.00	
12,484.1	0.22	236.19	12,374.0	-1,201.4	343.6	1,249.5	0.00	0.00	Permit TD @ 12,484' MD

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Project:</b>	Story Gulch	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site:</b>	S33-T4S-R96W (E34 496)	<b>North Reference:</b>	True
<b>Well:</b>	8511D-34 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
E34 496 8511D-34 PBHI	0.00	0.00	12,224.0	-1,201.0	344.1	1,674,969.80	2,251,344.34	39° 39' 23.390 N	108° 9' 33.770 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
E34 496 8511D-34 TGT	0.00	0.00	7,569.0	-1,191.0	359.1	1,674,979.39	2,251,359.61	39° 39' 23.489 N	108° 9' 33.579 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,185.6	1,176.0	A_GROOVE_TVD				
1,342.2	1,330.0	B_GROOVE_TVD				
1,365.6	1,353.0	B_GROOVE_BASE_TVD				
2,296.8	2,269.0	GARDEN_GULCH_TVD				
3,347.9	3,303.0	WASATCH_FM_TVD				
5,519.4	5,439.0	WASATCH_G_TVD				
7,679.0	7,569.0	WILLIAMS_FORK_TVD				
10,890.0	10,780.0	CAMEO_TVD				
11,318.0	11,208.0	ROLLINS_TVD				
11,549.0	11,439.0	COZZETTE_TVD				
11,734.1	11,624.0	CORCORAN_TVD				
12,034.1	11,924.0	UPPER_SEGO_TVD				
12,184.1	12,074.0	SEGO_BASE_TARGET_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
250.0	250.0	0.0	0.0	KOP @ 250'
768.4	765.6	-44.8	13.5	EOB; Inc=10.37°
7,160.6	7,053.4	-1,146.2	345.6	Start Drop -2.00
7,679.0	7,569.0	-1,191.0	359.1	EOD; Inc=0°
12,334.1	12,224.0	-1,191.0	359.0	Drillers TD @ 12,334' MD
12,484.1	12,374.0	-1,201.0	344.1	Permit TD @ 12,484' MD

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

**Story Gulch**

**S33-T4S-R96W (E34 496)**

**8511D-34 E34 496**

**DD**

**Plan #1**

## **Anticollision Report**

**20 June, 2012**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>		<b>Date</b>	6/20/2012		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	12,483.2	Plan #1 (DD)	MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S33-T4S-R96W (E34 496)						
8503B-34 E34 496 - DD - Plan #1						Out of range
8503C-34 E34 496 - DD - Plan #1						Out of range
8503D-34 E34 496 - DD - Plan #1						Out of range
8503E-34 E34 496 - DD - Plan #1						Out of range
8506A-34 E34 496 - DD - Plan #1	200.0	200.0	84.0	83.4	136.021	CC, ES
8506A-34 E34 496 - DD - Plan #1	400.0	394.1	94.1	92.8	71.913	SF
8506B-34 E34 496 - DD - Plan #1	200.0	200.0	83.7	83.1	135.453	CC, ES
8506B-34 E34 496 - DD - Plan #1	400.0	394.3	93.5	92.2	71.350	SF
8506C-34 E34 496 - DD - Plan #1	200.0	200.0	75.6	74.9	122.300	CC, ES
8506C-34 E34 496 - DD - Plan #1	500.0	495.1	95.7	94.1	57.024	SF
8506D-34 E34 496 - DD - Plan #1	200.0	200.0	56.2	55.6	90.957	CC, ES
8506D-34 E34 496 - DD - Plan #1	700.0	696.9	95.3	92.9	38.858	SF
8506E-34E 34 496 - DD - Plan #1	300.0	300.6	47.8	46.8	49.185	CC, ES
8506E-34E 34 496 - DD - Plan #1	700.0	699.8	72.4	70.0	29.128	SF
8508D-33 E34 496 - DD - Plan #1	200.0	200.0	76.9	76.3	124.535	CC
8508D-33 E34 496 - DD - Plan #1	216.4	216.4	77.0	76.3	113.765	ES
8508D-33 E34 496 - DD - Plan #1	500.0	495.9	92.7	90.9	51.560	SF
8508E-33 E34 496 - DD - Plan #1	200.0	200.0	56.7	56.0	91.710	CC
8508E-33 E34 496 - DD - Plan #1	230.5	230.5	56.7	56.0	78.048	ES
8508E-33 E34 496 - DD - Plan #1	600.0	592.4	90.0	87.7	39.843	SF
8508F-33 E34 496 - DD - Plan #1	200.0	200.0	48.6	48.0	78.649	CC
8508F-33 E34 496 - DD - Plan #1	300.0	300.1	48.8	47.9	50.067	ES
8508F-33 E34 496 - DD - Plan #1	500.0	497.7	62.7	60.9	34.737	SF
8509A-33 E34 496 - DD - Plan #1	200.0	200.0	29.6	29.0	47.912	CC
8509A-33 E34 496 - DD - Plan #1	300.0	300.1	29.9	28.9	30.656	ES
8509A-33 E34 496 - DD - Plan #1	400.0	399.5	34.3	32.9	25.115	SF
8509B-33 E34 496 - DD - Plan #1	200.0	200.0	21.8	21.1	35.220	CC
8509B-33 E34 496 - DD - Plan #1	300.0	300.1	22.0	21.0	22.532	ES
8509B-33 E34 496 - DD - Plan #1	400.0	399.6	26.4	25.1	19.348	SF
8509C-33 E34 496 - DD - Plan #1	200.0	200.0	7.9	7.3	12.763	CC, ES
8509C-33 E34 496 - DD - Plan #1	300.0	299.6	10.3	9.3	10.636	SF
8509D-33 E34 496 - DD - Plan #1	200.0	200.0	11.1	10.5	18.036	CC, ES
8509D-33 E34 496 - DD - Plan #1	300.0	299.3	13.6	12.6	14.046	SF
8509E-33 E34 496 - DD - Plan #1	240.1	240.1	28.7	27.9	37.872	CC, ES
8509E-33 E34 496 - DD - Plan #1	500.0	495.6	37.6	35.9	22.256	SF
8511A-34 E34 496 - DD - Plan #1	365.2	366.2	26.6	25.4	22.009	CC
8511A-34 E34 496 - DD - Plan #1	400.0	401.2	26.7	25.3	19.945	ES
8511A-34 E34 496 - DD - Plan #1	600.0	601.1	32.8	30.6	15.378	SF
8511C-34 E34 496 - DD - Plan #1	635.6	637.6	15.8	13.5	6.780	CC, ES
8511C-34 E34 496 - DD - Plan #1	800.0	802.0	19.1	16.0	6.162	SF
8511E-34 E34 496 - DD - Plan #1	200.0	200.0	8.1	7.5	13.162	CC, ES
8511E-34 E34 496 - DD - Plan #1	800.0	797.3	18.9	16.1	6.689	SF
8514A-34 E34 496 - DD - Plan #1	392.3	391.1	26.4	25.1	20.462	CC
8514A-34 E34 496 - DD - Plan #1	400.0	398.7	26.4	25.1	20.048	ES
8514A-34 E34 496 - DD - Plan #1	700.0	694.3	34.5	32.0	14.183	SF
8514C-34 E34 496 - DD - Plan #1	238.3	238.3	35.6	34.9	47.372	CC, ES
8514C-34 E34 496 - DD - Plan #1	800.0	787.2	62.1	59.3	22.043	SF
8514D-34 E34 496 - DD - Plan #1	238.3	238.3	56.0	55.2	74.473	CC, ES
8514D-34 E34 496 - DD - Plan #1	800.0	781.8	82.0	79.2	29.198	SF
8514E-34 E34 496 - DD - Plan #1	200.0	200.0	64.2	63.6	103.954	CC, ES
8514E-34 E34 496 - DD - Plan #1	700.0	681.1	91.8	89.4	38.252	SF
8516A-33 E34 496 - DD - Plan #1	200.0	200.0	36.6	36.0	59.250	CC, ES
8516A-33 E34 496 - DD - Plan #1	500.0	493.1	51.1	49.4	30.271	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 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S33-T4S-R96W (E34 496)						
8516B-33 E34 496 - DD - Plan #1	239.2	239.2	56.5	55.8	74.861	CC, ES
8516B-33 E34 496 - DD - Plan #1	700.0	683.1	83.6	81.1	33.316	SF
8516C-33 E34 496 - DD - Plan #1	200.0	200.0	64.8	64.2	104.958	CC, ES
8516C-33 E34 496 - DD - Plan #1	600.0	584.4	87.6	85.5	42.519	SF
8516E-33 E34 496 - DD - Plan #1	200.0	200.0	84.1	83.5	136.086	CC, ES
8516E-33 E34 496 - DD - Plan #1	500.0	486.9	96.3	94.6	57.662	SF
CP01B-33 (Existing) - Existing - Existing						Out of range
CP08B-33 (Existing) - Existing - Existing						Out of range
UWF03A-03 E34 596 - DD - Plan #1	390.3	386.6	82.6	81.3	64.687	CC
UWF03A-03 E34 596 - DD - Plan #1	400.0	395.9	82.6	81.3	63.044	ES
UWF03A-03 E34 596 - DD - Plan #1	800.0	778.4	97.7	94.9	34.715	SF
UWF03B-03 E34 596 - DD - Plan #1	238.3	238.3	91.7	90.9	121.996	CC, ES
UWF03B-03 E34 596 - DD - Plan #1	500.0	488.4	97.2	95.6	58.789	SF
UWF03C-03 E34 596 - DD - Plan #1	200.0	200.0	92.2	91.5	149.149	CC, ES
UWF03C-03 E34 596 - DD - Plan #1	500.0	490.3	97.9	96.3	59.041	SF

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												S33-T4S-R96W (E34 496) - 8506A-34 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD														Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning				
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
0.0	0.0	0.0	0.0	0.0	0.0	2.13	84.0	3.1	84.0								
100.0	100.0	100.0	100.0	0.1	0.1	2.13	84.0	3.1	84.0	83.8	0.27	312.672					
200.0	200.0	200.0	200.0	0.3	0.3	2.13	84.0	3.1	84.0	83.4	0.62	136.021	CC, ES				
300.0	300.0	297.3	297.3	0.5	0.5	-160.78	85.5	3.8	86.0	85.1	0.96	89.386					
400.0	399.9	394.1	394.0	0.7	0.7	-160.34	90.0	5.7	94.1	92.8	1.31	71.913	SF				

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design											S33-T4S-R96W (E34 496) - 8506B-34 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning		
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)					
0.0	0.0	0.0	0.0	0.0	0.0	7.52	83.0	10.9	83.7						
100.0	100.0	100.0	100.0	0.1	0.1	7.52	83.0	10.9	83.7	83.4	0.27	311.367			
200.0	200.0	200.0	200.0	0.3	0.3	7.52	83.0	10.9	83.7	83.1	0.62	135.453	CC, ES		
300.0	300.0	297.3	297.3	0.5	0.5	-155.36	84.4	11.8	85.6	84.7	0.96	88.949			
400.0	399.9	394.3	394.1	0.7	0.7	-154.96	88.6	14.4	93.5	92.2	1.31	71.350	SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8506C-34 E34 496 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-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	
0.0	0.0	0.0	0.0	0.0	0.0	7.73	74.9	10.2	75.6					
100.0	100.0	100.0	100.0	0.1	0.1	7.73	74.9	10.2	75.6	75.3	0.27	281.131		
200.0	200.0	200.0	200.0	0.3	0.3	7.73	74.9	10.2	75.6	74.9	0.62	122.300 CC, ES		
300.0	300.0	298.0	298.0	0.5	0.5	-154.81	76.0	11.4	77.3	76.3	0.96	80.088		
400.0	399.9	395.8	395.6	0.7	0.7	-153.58	79.4	15.1	84.4	83.1	1.32	64.046		
500.0	499.7	495.1	494.7	0.9	0.9	-152.92	83.7	19.9	95.7	94.1	1.68	57.024 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S33-T4S-R96W (E34 496) - 8506D-34 E34 496 - DD - Plan #1											Offset Site Error:		0.0 ft			
Survey Program:		0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
0.0	0.0	0.0	0.0	0.0	0.0	8.00	55.7	7.8	56.2									
100.0	100.0	100.0	100.0	0.1	0.1	8.00	55.7	7.8	56.2	55.9	0.27	209.083						
200.0	200.0	200.0	200.0	0.3	0.3	8.00	55.7	7.8	56.2	55.6	0.62	90.957	CC, ES					
300.0	300.0	299.3	299.3	0.5	0.5	-153.77	56.0	9.5	57.2	56.2	0.97	59.016						
400.0	399.9	398.8	398.7	0.7	0.7	-151.17	56.9	14.0	62.0	60.7	1.33	46.679						
500.0	499.7	498.5	498.3	0.9	0.9	-150.14	57.9	18.8	70.1	68.4	1.70	41.332						
600.0	599.1	597.9	597.5	1.1	1.1	-150.54	58.8	23.6	81.2	79.1	2.07	39.202						
700.0	698.2	696.9	696.4	1.4	1.2	-151.82	59.8	28.4	95.3	92.9	2.45	38.858	SF					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S33-T4S-R96W (E34 496) - 8506E-34E 34 496 - DD - Plan #1										Offset Site Error:		0.0 ft			
Survey Program:		0-MWD												Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	7.49	47.6	6.3	48.0								
100.0	100.0	100.0	100.0	0.1	0.1	7.49	47.6	6.3	48.0	47.7	0.27	178.457					
200.0	200.0	200.0	200.0	0.3	0.3	7.49	47.6	6.3	48.0	47.3	0.62	77.634					
281.9	281.9	282.4	282.4	0.5	0.5	-154.69	47.0	7.3	48.1	47.2	0.91	53.010					
300.0	300.0	300.6	300.5	0.5	0.5	-153.96	46.7	7.8	47.8	46.8	0.97	49.185 CC, ES					
400.0	399.9	400.8	400.6	0.7	0.7	-150.29	44.4	12.2	49.4	48.1	1.34	37.002					
500.0	499.7	500.6	500.4	0.9	0.9	-148.27	41.9	17.0	54.1	52.4	1.71	31.632					
600.0	599.1	600.3	599.9	1.1	1.1	-148.33	39.3	21.9	61.8	59.7	2.10	29.485					
700.0	698.2	699.8	699.2	1.4	1.3	-149.77	36.7	26.7	72.4	70.0	2.49	29.128 SF					
800.0	796.7	798.8	798.0	1.7	1.5	-151.92	34.2	31.5	86.0	83.1	2.88	29.877					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S33-T4S-R96W (E34 496) - 8508D-33 E34 496 - DD - Plan #1											Offset Site Error:		0.0 ft			
Survey Program:		0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	1.75	76.9	2.3	76.9									
100.0	100.0	100.0	100.0	0.1	0.1	1.75	76.9	2.3	76.9	76.7	0.27	286.269						
200.0	200.0	200.0	200.0	0.3	0.3	1.75	76.9	2.3	76.9	76.3	0.62	124.535 CC						
216.4	216.4	216.4	216.4	0.3	0.3	-161.53	76.9	2.3	77.0	76.3	0.68	113.765 ES						
300.0	300.0	299.6	299.6	0.5	0.5	-163.49	77.1	-0.2	77.6	76.6	0.97	79.583						
400.0	399.9	398.6	398.2	0.7	0.7	-169.53	77.9	-7.9	82.1	80.8	1.36	60.183						
500.0	499.7	495.9	494.7	0.9	1.0	-177.97	79.0	-20.4	92.7	90.9	1.80	51.560 SF						



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - 8508E-33 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
							+N/-S (ft)	+E/-W (ft)									
0.0	0.0	0.0	0.0	0.0	0.0	0.00	56.7	0.0	56.7								
100.0	100.0	100.0	100.0	0.1	0.1	0.00	56.7	0.0	56.7	56.4	0.27	210.813					
200.0	200.0	200.0	200.0	0.3	0.3	0.00	56.7	0.0	56.7	56.0	0.62	91.710 CC					
230.5	230.5	230.5	230.5	0.4	0.4	-163.49	56.7	-0.2	56.7	56.0	0.73	78.048 ES					
300.0	300.0	299.9	299.9	0.5	0.5	-165.97	56.6	-2.6	57.1	56.1	0.98	58.558					
400.0	399.9	399.2	398.8	0.7	0.7	-174.02	56.5	-10.4	61.4	60.0	1.37	44.917					
500.0	499.7	496.9	495.7	0.9	1.0	175.34	56.4	-23.0	71.8	70.1	1.80	39.941					
600.0	599.1	592.4	589.7	1.1	1.3	165.31	56.1	-40.2	90.0	87.7	2.26	39.843 SF					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8508F-33 E34 496 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-1.84	48.6	-1.6	48.6					
100.0	100.0	100.0	100.0	0.1	0.1	-1.84	48.6	-1.6	48.6	48.3	0.27	180.791		
200.0	200.0	200.0	200.0	0.3	0.3	-1.84	48.6	-1.6	48.6	48.0	0.62	78.649 CC		
244.1	244.1	244.2	244.2	0.4	0.4	-165.72	48.5	-2.1	48.7	47.9	0.78	62.800		
300.0	300.0	300.1	300.1	0.5	0.5	-168.26	48.2	-4.2	48.8	47.9	0.98	50.067 ES		
400.0	399.9	399.6	399.2	0.7	0.7	-177.55	47.3	-11.9	52.7	51.3	1.37	38.503		
500.0	499.7	497.7	496.5	0.9	1.0	170.45	45.7	-24.5	62.7	60.9	1.80	34.737 SF		
600.0	599.1	593.6	590.9	1.1	1.3	159.61	43.6	-41.7	80.3	78.1	2.27	35.352		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8509A-33 E34 496 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-7.59	29.3	-3.9	29.6					
100.0	100.0	100.0	100.0	0.1	0.1	-7.59	29.3	-3.9	29.6	29.3	0.27	110.136		
200.0	200.0	200.0	200.0	0.3	0.3	-7.59	29.3	-3.9	29.6	29.0	0.62	47.912 CC		
242.9	242.9	242.9	242.9	0.4	0.4	-171.79	29.2	-4.4	29.7	28.9	0.77	38.536		
300.0	300.0	300.1	300.0	0.5	0.5	-175.95	28.8	-6.5	29.9	28.9	0.98	30.656 ES		
400.0	399.9	399.5	399.1	0.7	0.7	170.48	27.0	-14.0	34.3	32.9	1.37	25.115 SF		
500.0	499.7	497.6	496.4	0.9	1.0	155.98	24.1	-26.5	45.6	43.8	1.79	25.447		
600.0	599.1	593.7	591.0	1.1	1.3	145.50	20.2	-43.3	64.6	62.3	2.25	28.667		
700.0	698.2	687.4	682.1	1.4	1.8	138.84	15.4	-64.2	90.6	87.8	2.75	32.899		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8509B-33 E34 496 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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)	Total Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	-12.45	21.2	-4.7	21.8					
100.0	100.0	100.0	100.0	0.1	0.1	-12.45	21.2	-4.7	21.8	21.5	0.27	80.960		
200.0	200.0	200.0	200.0	0.3	0.3	-12.45	21.2	-4.7	21.8	21.1	0.62	35.220 CC		
248.7	248.7	248.8	248.8	0.4	0.4	-177.33	21.0	-5.3	21.9	21.1	0.79	27.643		
300.0	300.0	300.1	300.0	0.5	0.5	177.46	20.3	-7.1	22.0	21.0	0.98	22.532 ES		
400.0	399.9	399.6	399.2	0.7	0.7	160.60	17.6	-14.4	26.4	25.1	1.37	19.348 SF		
500.0	499.7	497.8	496.6	0.9	1.0	144.99	13.1	-26.4	37.9	36.1	1.79	21.129		
600.0	599.1	594.4	591.6	1.1	1.3	135.20	7.0	-42.7	56.5	54.2	2.26	25.014		
700.0	698.2	688.6	683.3	1.4	1.8	129.54	-0.6	-62.9	81.6	78.8	2.78	29.379		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8509C-33 E34 496 - DD - Plan #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-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
0.0	0.0	0.0	0.0	0.0	0.0	-82.63	1.0	-7.8	7.9				
100.0	100.0	100.0	100.0	0.1	0.1	-82.63	1.0	-7.8	7.9	7.6	0.27	29.339	
200.0	200.0	200.0	200.0	0.3	0.3	-82.63	1.0	-7.8	7.9	7.3	0.62	12.763 CC, ES	
300.0	300.0	299.6	299.5	0.5	0.5	108.40	-0.1	-10.2	10.3	9.3	0.97	10.636 SF	
400.0	399.9	398.6	398.2	0.7	0.7	107.36	-3.5	-17.1	18.3	17.0	1.33	13.751	
500.0	499.7	496.5	495.3	0.9	1.0	108.67	-9.0	-28.5	32.0	30.2	1.73	18.475	
600.0	599.1	592.8	590.1	1.1	1.3	109.91	-16.5	-44.1	51.2	49.0	2.18	23.461	
700.0	698.2	687.0	681.8	1.4	1.8	110.77	-25.9	-63.4	75.8	73.1	2.70	28.111	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - 8509D-33 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-129.47	-7.1	-8.6	11.1								
100.0	100.0	100.0	100.0	0.1	0.1	-129.47	-7.1	-8.6	11.1	10.9	0.27	41.459					
200.0	200.0	200.0	200.0	0.3	0.3	-129.47	-7.1	-8.6	11.1	10.5	0.62	18.036 CC, ES					
300.0	300.0	299.3	299.3	0.5	0.5	70.62	-8.4	-10.8	13.6	12.6	0.97	14.046 SF					
400.0	399.9	398.2	397.8	0.7	0.7	81.66	-12.3	-17.4	20.6	19.2	1.32	15.551					
500.0	499.7	496.0	494.8	0.9	1.0	91.11	-18.8	-28.3	32.9	31.2	1.71	19.230					
600.0	599.1	592.3	589.5	1.1	1.3	97.07	-27.6	-43.1	50.7	48.5	2.15	23.537					
700.0	698.2	686.7	681.4	1.4	1.8	100.67	-38.7	-61.6	73.8	71.2	2.67	27.664					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		S33-T4S-R96W (E34 496) - 8509E-33 E34 496 - DD - Plan #1											Offset Site Error:		0.0 ft			
Survey Program:		0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
0.0	0.0	0.0	0.0	0.0	0.0	-155.97	-26.3	-11.7	28.8									
100.0	100.0	100.0	100.0	0.1	0.1	-155.97	-26.3	-11.7	28.8	28.5	0.27	107.168						
200.0	200.0	200.0	200.0	0.3	0.3	-155.97	-26.3	-11.7	28.8	28.2	0.62	46.621						
240.1	240.1	240.1	240.1	0.4	0.4	41.00	-26.3	-11.7	28.7	27.9	0.76	37.872	CC, ES					
300.0	300.0	299.4	299.3	0.5	0.5	42.01	-26.7	-12.3	29.0	28.1	0.97	30.059						
400.0	399.9	397.8	397.7	0.7	0.7	50.82	-29.6	-16.4	31.3	30.0	1.32	23.729						
500.0	499.7	495.6	494.9	0.9	0.9	64.35	-35.4	-24.6	37.6	35.9	1.69	22.256	SF					
600.0	599.1	592.2	590.3	1.1	1.2	76.96	-43.9	-36.7	49.7	47.6	2.10	23.616						
700.0	698.2	687.2	683.4	1.4	1.6	86.10	-55.0	-52.5	67.8	65.2	2.59	26.202						
800.0	796.7	780.3	773.5	1.7	2.0	92.15	-68.4	-71.5	91.6	88.4	3.15	29.098						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												S33-T4S-R96W (E34 496) - 8511A-34 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:												0-MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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	8.15	27.3	3.9	27.6								
100.0	100.0	100.0	100.0	0.1	0.1	8.15	27.3	3.9	27.6	27.3	0.27	102.662					
200.0	200.0	200.0	200.0	0.3	0.3	8.15	27.3	3.9	27.6	27.0	0.62	44.661					
300.0	300.0	300.6	300.6	0.5	0.5	-152.68	26.0	5.0	26.8	25.9	0.97	27.653					
365.2	365.2	366.2	366.1	0.6	0.6	-149.50	23.6	7.0	26.6	25.4	1.21	22.009 CC					
400.0	399.9	401.2	401.0	0.7	0.7	-147.40	21.9	8.4	26.7	25.3	1.34	19.945 ES					
500.0	499.7	501.2	500.8	0.9	0.9	-142.16	16.0	13.3	28.3	26.6	1.73	16.398					
600.0	599.1	601.1	600.4	1.1	1.1	-141.50	10.0	18.3	32.8	30.6	2.13	15.378 SF					
700.0	698.2	700.8	699.8	1.4	1.3	-144.10	4.0	23.2	40.0	37.5	2.54	15.755					
800.0	796.7	800.3	798.9	1.7	1.5	-148.01	-1.9	28.1	50.1	47.1	2.94	17.047					
900.0	895.0	899.6	898.0	2.1	1.8	-151.04	-7.9	33.0	61.0	57.7	3.33	18.319					
1,000.0	993.4	999.0	997.0	2.4	2.0	-153.14	-13.8	38.0	72.0	68.3	3.72	19.366					
1,100.0	1,091.8	1,098.4	1,096.1	2.7	2.2	-154.68	-19.8	42.9	83.2	79.1	4.11	20.238					
1,200.0	1,190.1	1,197.7	1,195.1	3.1	2.4	-155.86	-25.7	47.8	94.3	89.8	4.50	20.972					



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S33-T4S-R96W (E34 496) - 8511C-34 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	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	8.79	20.2	3.1	20.5					
100.0	100.0	100.0	100.0	0.1	0.1	8.79	20.2	3.1	20.5	0.27	76.185			
200.0	200.0	200.0	200.0	0.3	0.3	8.79	20.2	3.1	20.5	0.62	33.143			
300.0	300.0	300.6	300.6	0.5	0.5	-152.43	18.6	3.8	19.4	0.97	19.972			
400.0	399.9	401.1	401.0	0.7	0.7	-148.82	13.6	5.6	18.0	1.33	13.544			
500.0	499.7	501.6	501.0	0.9	0.9	-143.96	5.4	8.7	16.8	1.71	9.828			
600.0	599.1	602.0	600.7	1.1	1.2	-137.79	-6.1	13.1	16.0	2.16	7.409			
635.6	634.4	637.6	635.9	1.2	1.3	-135.56	-10.9	14.9	15.8	2.33	6.780 CC, ES			
700.0	698.2	702.0	699.7	1.4	1.5	-134.27	-19.6	18.1	16.3	2.65	6.170			
800.0	796.7	802.0	798.6	1.7	1.8	-138.38	-33.0	23.2	19.1	3.10	6.162 SF			
900.0	895.0	901.9	897.5	2.1	2.1	-142.76	-46.5	28.3	22.6	3.51	6.417			
1,000.0	993.4	1,001.8	996.4	2.4	2.4	-145.96	-59.9	33.3	26.1	3.92	6.659			
1,100.0	1,091.8	1,101.8	1,095.2	2.7	2.7	-148.39	-73.4	38.4	29.7	4.32	6.881			
1,200.0	1,190.1	1,201.7	1,194.1	3.1	3.0	-150.29	-86.9	43.5	33.4	4.72	7.079			
1,300.0	1,288.5	1,301.6	1,293.0	3.4	3.3	-151.81	-100.3	48.5	37.1	5.11	7.257			
1,400.0	1,386.9	1,401.5	1,391.9	3.8	3.6	-153.05	-113.8	53.6	40.8	5.50	7.416			
1,500.0	1,485.2	1,501.5	1,490.8	4.2	3.9	-154.09	-127.2	58.7	44.5	5.89	7.558			
1,600.0	1,583.6	1,601.4	1,589.7	4.5	4.2	-154.96	-140.7	63.7	48.3	6.28	7.686			
1,700.0	1,682.0	1,701.3	1,688.6	4.9	4.5	-155.71	-154.2	68.8	52.0	6.67	7.801			
1,800.0	1,780.3	1,801.3	1,787.5	5.2	4.8	-156.36	-167.6	73.9	55.8	7.06	7.905			
1,900.0	1,878.7	1,901.2	1,886.3	5.6	5.1	-156.93	-181.1	79.0	59.6	7.45	8.000			
2,000.0	1,977.1	2,001.1	1,985.2	5.9	5.4	-157.43	-194.5	84.0	63.3	7.83	8.087			
2,100.0	2,075.4	2,101.0	2,084.1	6.3	5.7	-157.87	-208.0	89.1	67.1	8.22	8.166			
2,200.0	2,173.8	2,201.0	2,183.0	6.7	6.0	-158.27	-221.4	94.2	70.9	8.61	8.239			
2,300.0	2,272.2	2,300.9	2,281.9	7.0	6.3	-158.62	-234.9	99.2	74.7	8.99	8.306			
2,400.0	2,370.5	2,400.8	2,380.8	7.4	6.6	-158.94	-248.4	104.3	78.5	9.38	8.368			
2,500.0	2,468.9	2,500.8	2,479.7	7.7	6.9	-159.24	-261.8	109.4	82.3	9.76	8.425			
2,600.0	2,567.3	2,600.7	2,578.6	8.1	7.2	-159.50	-275.3	114.4	86.0	10.15	8.478			
2,700.0	2,665.6	2,700.6	2,677.4	8.4	7.5	-159.75	-288.7	119.5	89.8	10.53	8.528			
2,800.0	2,764.0	2,800.5	2,776.3	8.8	7.8	-159.97	-302.2	124.6	93.6	10.92	8.574			
2,900.0	2,862.4	2,900.5	2,875.2	9.2	8.1	-160.18	-315.7	129.7	97.4	11.30	8.617			

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S33-T4S-R96W (E34 496) - 8511E-34 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-174.48	-8.1	-0.8	8.1					
100.0	100.0	100.0	100.0	0.1	0.1	-174.48	-8.1	-0.8	8.1	7.9	0.27	30.256		
200.0	200.0	200.0	200.0	0.3	0.3	-174.48	-8.1	-0.8	8.1	7.5	0.62	13.162	CC, ES	
300.0	300.0	299.7	299.7	0.5	0.5	20.01	-9.8	-0.4	9.4	8.4	0.97	9.714		
400.0	399.9	399.3	399.2	0.7	0.7	18.84	-14.9	0.7	11.1	9.8	1.32	8.457		
500.0	499.7	498.9	498.4	0.9	0.9	19.09	-23.3	2.6	12.9	11.3	1.67	7.746		
600.0	599.1	598.4	597.2	1.1	1.2	20.24	-35.1	5.2	14.8	12.8	2.03	7.280		
700.0	698.2	697.9	695.4	1.4	1.5	21.96	-50.2	8.6	16.8	14.3	2.42	6.930		
800.0	796.7	797.3	793.0	1.7	1.9	23.84	-68.7	12.7	18.9	16.1	2.83	6.689	SF	
900.0	895.0	896.5	889.6	2.1	2.3	23.17	-90.3	17.5	23.7	20.4	3.24	7.305		
1,000.0	993.4	996.3	986.5	2.4	2.7	21.62	-113.8	22.8	30.1	26.5	3.63	8.299		
1,100.0	1,091.8	1,096.0	1,083.3	2.7	3.1	20.62	-137.4	28.0	36.5	32.5	4.01	9.103		
1,200.0	1,190.1	1,195.8	1,180.1	3.1	3.6	19.92	-160.9	33.2	43.0	38.6	4.40	9.765		
1,300.0	1,288.5	1,295.6	1,277.0	3.4	4.0	19.40	-184.4	38.5	49.4	44.6	4.79	10.320		
1,400.0	1,386.9	1,395.4	1,373.8	3.8	4.5	19.00	-207.9	43.7	55.9	50.7	5.18	10.792		
1,500.0	1,485.2	1,495.2	1,470.7	4.2	4.9	18.69	-231.4	49.0	62.3	56.8	5.57	11.198		
1,600.0	1,583.6	1,595.0	1,567.5	4.5	5.4	18.43	-254.9	54.2	68.8	62.9	5.96	11.550		
1,700.0	1,682.0	1,694.8	1,664.3	4.9	5.8	18.22	-278.4	59.4	75.3	68.9	6.35	11.859		
1,800.0	1,780.3	1,794.6	1,761.2	5.2	6.3	18.04	-302.0	64.7	81.7	75.0	6.74	12.132		
1,900.0	1,878.7	1,894.4	1,858.0	5.6	6.7	17.89	-325.5	69.9	88.2	81.1	7.13	12.376		
2,000.0	1,977.1	1,994.2	1,954.9	5.9	7.2	17.75	-349.0	75.1	94.7	87.1	7.52	12.594		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S33-T4S-R96W (E34 496) - 8514A-34 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	-173.47	-27.3	-3.1	27.5					
100.0	100.0	100.0	100.0	0.1	0.1	-173.47	-27.3	-3.1	27.5	27.2	0.27	102.306		
200.0	200.0	200.0	200.0	0.3	0.3	-173.47	-27.3	-3.1	27.5	26.9	0.62	44.506		
300.0	300.0	300.0	300.0	0.5	0.5	23.68	-27.3	-3.1	27.1	26.1	0.97	28.026		
392.3	392.2	391.1	391.1	0.7	0.6	24.90	-29.5	-2.7	26.4	25.1	1.29	20.462 CC		
400.0	399.9	398.7	398.6	0.7	0.7	24.99	-29.8	-2.6	26.4	25.1	1.32	20.048 ES		
500.0	499.7	497.4	497.0	0.9	0.9	25.79	-37.3	-1.2	27.4	25.7	1.67	16.371		
600.0	599.1	596.0	594.8	1.1	1.1	26.01	-49.8	1.2	30.1	28.0	2.04	14.725		
700.0	698.2	694.3	691.5	1.4	1.5	25.74	-67.1	4.6	34.5	32.0	2.43	14.183 SF		
800.0	796.7	792.3	786.9	1.7	1.9	25.09	-89.3	8.9	40.7	37.9	2.84	14.356		
900.0	895.0	891.2	882.1	2.1	2.3	23.54	-115.3	14.0	50.0	46.7	3.23	15.449		
1,000.0	993.4	990.7	977.9	2.4	2.8	22.40	-141.8	19.2	59.5	55.9	3.63	16.389		
1,100.0	1,091.8	1,090.3	1,073.7	2.7	3.3	21.57	-168.3	24.3	69.1	65.1	4.03	17.154		
1,200.0	1,190.1	1,189.8	1,169.5	3.1	3.8	20.94	-194.8	29.5	78.7	74.3	4.42	17.788		
1,300.0	1,288.5	1,289.3	1,265.3	3.4	4.3	20.45	-221.3	34.7	88.3	83.5	4.82	18.321		
1,400.0	1,386.9	1,388.9	1,361.1	3.8	4.8	20.05	-247.8	39.8	97.9	92.7	5.21	18.776		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8514C-34 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	-172.45	-35.4	-4.7	35.7					
100.0	100.0	100.0	100.0	0.1	0.1	-172.45	-35.4	-4.7	35.7	35.5	0.27	132.910		
200.0	200.0	200.0	200.0	0.3	0.3	-172.45	-35.4	-4.7	35.7	35.1	0.62	57.820		
238.3	238.3	238.3	238.3	0.4	0.4	24.41	-35.4	-4.7	35.6	34.9	0.75	47.372 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	24.32	-36.0	-4.6	35.9	35.0	0.97	37.231		
400.0	399.9	397.3	397.1	0.7	0.7	24.27	-41.0	-3.8	37.7	36.4	1.31	28.694		
500.0	499.7	495.3	494.6	0.9	0.9	24.19	-51.0	-2.2	41.2	39.5	1.67	24.679		
600.0	599.1	593.0	591.2	1.1	1.2	24.09	-65.8	0.1	46.4	44.4	2.04	22.798		
700.0	698.2	690.3	686.4	1.4	1.6	23.97	-85.3	3.2	53.3	50.9	2.42	22.061		
800.0	796.7	787.2	780.1	1.7	2.0	23.82	-109.5	7.0	62.1	59.3	2.82	22.043 SF		
900.0	895.0	883.0	871.5	2.1	2.6	22.94	-138.1	11.5	75.0	71.8	3.22	23.296		
1,000.0	993.4	981.1	964.0	2.4	3.1	21.79	-170.3	16.5	91.0	87.4	3.61	25.187		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S33-T4S-R96W (E34 496) - 8514D-34 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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	-172.79	-55.7	-7.0	56.1					
100.0	100.0	100.0	100.0	0.1	0.1	-172.79	-55.7	-7.0	56.1	55.8	0.27	208.698		
200.0	200.0	200.0	200.0	0.3	0.3	-172.79	-55.7	-7.0	56.1	55.5	0.62	90.790		
238.3	238.3	238.3	238.3	0.4	0.4	24.04	-55.7	-7.0	56.0	55.2	0.75	74.473	CC, ES	
300.0	300.0	298.6	298.6	0.5	0.5	23.99	-56.3	-7.0	56.3	55.3	0.96	58.381		
400.0	399.9	395.8	395.7	0.7	0.7	24.05	-61.2	-6.3	58.0	56.7	1.31	44.270		
500.0	499.7	492.8	492.2	0.9	0.9	24.15	-70.9	-4.9	61.5	59.8	1.66	36.943		
600.0	599.1	589.6	587.8	1.1	1.2	24.27	-85.5	-2.8	66.6	64.6	2.03	32.835		
700.0	698.2	686.0	682.2	1.4	1.6	24.41	-104.7	0.0	73.4	71.0	2.41	30.473		
800.0	796.7	781.8	775.0	1.7	2.0	24.51	-128.5	3.4	82.0	79.2	2.81	29.198	SF	
900.0	895.0	876.8	865.6	2.1	2.5	24.02	-156.6	7.4	94.7	91.5	3.22	29.446		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - 8514E-34 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-173.01	-63.7	-7.8	64.2								
100.0	100.0	100.0	100.0	0.1	0.1	-173.01	-63.7	-7.8	64.2	64.0	0.27	238.959					
200.0	200.0	200.0	200.0	0.3	0.3	-173.01	-63.7	-7.8	64.2	63.6	0.62	103.954	CC, ES				
300.0	300.0	296.9	296.8	0.5	0.5	23.22	-66.2	-7.3	66.2	65.3	0.96	68.827					
400.0	399.9	393.5	393.2	0.7	0.7	22.37	-73.3	-5.8	70.2	68.9	1.31	53.604					
500.0	499.7	489.8	488.7	0.9	1.0	21.48	-85.2	-3.3	75.9	74.2	1.67	45.552					
600.0	599.1	585.7	583.1	1.1	1.3	20.60	-101.7	0.3	83.1	81.0	2.03	40.946					
700.0	698.2	681.1	676.1	1.4	1.7	19.77	-122.7	4.7	91.8	89.4	2.40	38.252	SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - 8516A-33 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-160.01	-34.4	-12.5	36.6								
100.0	100.0	100.0	100.0	0.1	0.1	-160.01	-34.4	-12.5	36.6	36.3	0.27	136.197					
200.0	200.0	200.0	200.0	0.3	0.3	-160.01	-34.4	-12.5	36.6	36.0	0.62	59.250	CC, ES				
300.0	300.0	298.3	298.3	0.5	0.5	39.06	-36.0	-14.5	38.5	37.5	0.97	39.857					
400.0	399.9	396.2	395.8	0.7	0.7	46.70	-40.8	-20.3	43.0	41.6	1.32	32.532					
500.0	499.7	493.1	492.0	0.9	1.0	57.14	-48.6	-29.9	51.1	49.4	1.69	30.271	SF				
600.0	599.1	588.9	586.2	1.1	1.3	67.28	-59.3	-43.1	64.1	62.0	2.09	30.715					
700.0	698.2	682.9	677.8	1.4	1.7	75.48	-72.8	-59.6	82.5	79.9	2.55	32.310					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8516B-33 E34 496 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	-164.79	-54.6	-14.9	56.6					
100.0	100.0	100.0	100.0	0.1	0.1	-164.79	-54.6	-14.9	56.6	56.4	0.27	210.667		
200.0	200.0	200.0	200.0	0.3	0.3	-164.79	-54.6	-14.9	56.6	56.0	0.62	91.646		
239.2	239.2	239.2	239.2	0.4	0.4	32.07	-54.6	-14.9	56.5	55.8	0.75	74.861	CC, ES	
300.0	300.0	298.7	298.7	0.5	0.5	32.53	-55.1	-15.3	56.8	55.8	0.96	58.876		
400.0	399.9	396.0	395.9	0.7	0.7	36.71	-58.6	-18.8	58.5	57.1	1.32	44.449		
500.0	499.7	492.8	492.1	0.9	0.9	44.24	-65.5	-25.8	62.6	61.0	1.68	37.300		
600.0	599.1	588.6	586.8	1.1	1.2	53.47	-75.6	-36.2	70.7	68.6	2.07	34.156		
700.0	698.2	683.1	679.4	1.4	1.6	62.55	-89.0	-49.7	83.6	81.1	2.51	33.316	SF	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - 8516C-33 E34 496 - DD - Plan #1		Offset Site Error:		0.0 ft	
Survey Program:													0-MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)		(ft)								
0.0	0.0	0.0	0.0	0.0	0.0	-165.33	-62.7	-16.4	64.8									
100.0	100.0	100.0	100.0	0.1	0.1	-165.33	-62.7	-16.4	64.8	64.6	0.27	241.266						
200.0	200.0	200.0	200.0	0.3	0.3	-165.33	-62.7	-16.4	64.8	64.2	0.62	104.958	CC, ES					
300.0	300.0	297.0	297.0	0.5	0.5	32.61	-64.6	-18.1	66.7	65.8	0.96	69.274						
400.0	399.9	393.6	393.3	0.7	0.7	36.69	-70.0	-23.0	70.8	69.5	1.32	53.820						
500.0	499.7	489.5	488.4	0.9	1.0	42.99	-78.9	-31.2	77.4	75.8	1.68	46.147						
600.0	599.1	584.4	581.8	1.1	1.3	50.32	-91.3	-42.4	87.6	85.5	2.06	42.519	SF					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - 8516E-33 E34 496 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-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	
0.0	0.0	0.0	0.0	0.0	0.0	-167.10	-82.0	-18.8	84.1					
100.0	100.0	100.0	100.0	0.1	0.1	-167.10	-82.0	-18.8	84.1	83.8	0.27	312.820		
200.0	200.0	200.0	200.0	0.3	0.3	-167.10	-82.0	-18.8	84.1	83.5	0.62	136.086 CC, ES		
300.0	300.0	296.1	296.0	0.5	0.5	30.47	-83.9	-20.2	86.0	85.0	0.96	89.447		
400.0	399.9	391.8	391.5	0.7	0.7	33.35	-89.6	-24.6	90.0	88.7	1.31	68.678		
500.0	499.7	486.9	485.8	0.9	1.0	37.96	-99.1	-31.8	96.3	94.6	1.67	57.662 SF		

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<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - UWF03A-03 E34 596 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-172.48	-83.0	-10.9	83.7					
100.0	100.0	100.0	100.0	0.1	0.1	-172.48	-83.0	-10.9	83.7	83.4	0.27	311.367		
200.0	200.0	200.0	200.0	0.3	0.3	-172.48	-83.0	-10.9	83.7	83.1	0.62	135.453		
300.0	300.0	300.0	300.0	0.5	0.5	24.42	-83.0	-10.9	83.3	82.3	0.97	86.146		
390.3	390.2	386.6	386.6	0.6	0.6	24.99	-84.9	-10.8	82.6	81.3	1.28	64.687 CC		
400.0	399.9	395.9	395.9	0.7	0.7	25.06	-85.4	-10.8	82.6	81.3	1.31	63.044 ES		
500.0	499.7	491.8	491.5	0.9	0.9	25.98	-92.6	-10.4	83.6	82.0	1.66	50.431		
600.0	599.1	587.6	586.5	1.1	1.1	27.10	-104.5	-9.6	86.5	84.5	2.02	42.827		
700.0	698.2	683.2	680.6	1.4	1.4	28.34	-121.2	-8.6	91.1	88.7	2.40	37.940		
800.0	796.7	778.4	773.5	1.7	1.8	29.58	-142.5	-7.2	97.7	94.9	2.81	34.715 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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> S33-T4S-R96W (E34 496) - UWF03B-03 E34 596 - DD - Plan #1													<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-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	
0.0	0.0	0.0	0.0	0.0	0.0	-172.66	-91.1	-11.7	91.8					
100.0	100.0	100.0	100.0	0.1	0.1	-172.66	-91.1	-11.7	91.8	91.5	0.27	341.606		
200.0	200.0	200.0	200.0	0.3	0.3	-172.66	-91.1	-11.7	91.8	91.2	0.62	148.609		
238.3	238.3	238.3	238.3	0.4	0.4	24.15	-91.1	-11.7	91.7	90.9	0.75	121.996 CC, ES		
300.0	300.0	297.7	297.7	0.5	0.5	24.15	-91.7	-11.7	92.0	91.1	0.96	95.574		
400.0	399.9	393.2	393.0	0.7	0.7	24.43	-96.4	-11.4	93.8	92.5	1.31	71.816		
500.0	499.7	488.4	487.8	0.9	0.9	24.96	-105.9	-10.9	97.2	95.6	1.65	58.789 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S33-T4S-R96W (E34 496) - UWF03C-03 E34 596 - DD - Plan #1		Offset Site Error:		0.0 ft
Survey Program: 0-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-167.75	-90.1	-19.6	92.2								
100.0	100.0	100.0	100.0	0.1	0.1	-167.75	-90.1	-19.6	92.2	91.9	0.27	342.848					
200.0	200.0	200.0	200.0	0.3	0.3	-167.75	-90.1	-19.6	92.2	91.5	0.62	149.149	CC, ES				
300.0	300.0	296.9	296.8	0.5	0.5	29.11	-91.7	-19.8	93.5	92.5	0.96	97.206					
400.0	399.9	393.6	393.5	0.7	0.7	29.95	-96.5	-20.7	95.5	94.2	1.31	73.077					
500.0	499.7	490.3	489.8	0.9	0.9	31.63	-104.5	-22.1	97.9	96.3	1.66	59.041	SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8511D-34 E34 496
<b>Project:</b>	Story Gulch	<b>TVD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Reference Site:</b>	S33-T4S-R96W (E34 496)	<b>MD Reference:</b>	WELL @ 8324.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	8511D-34 E34 496	<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>	DD	<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 @ 8324.0ft (Original Well Elev)

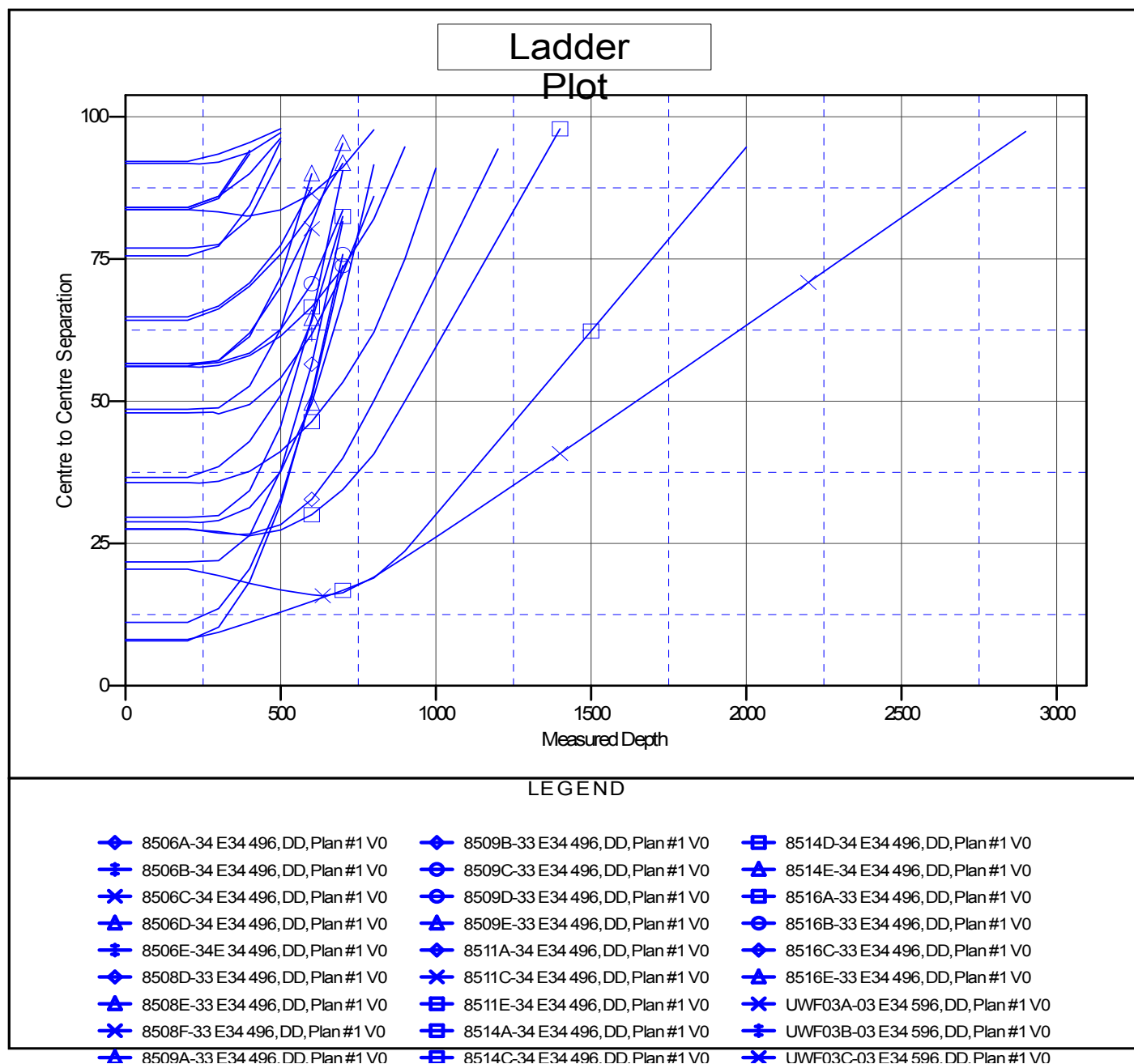
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.00W °

Coordinates are relative to: 8511D-34 E34 496

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: -1.68°



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