

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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	8508E-33 E34 496					
Well Position	+N/-S	0.0 ft	Northing:	1,676,237.03 ft	Latitude:	39° 39' 35.820 N
	+E/-W	0.0 ft	Easting:	2,251,037.19 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	268.99	

<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	
882.2	18.97	269.24	870.7	-1.4	-103.7	3.00	3.00	0.00	269.24	
7,258.9	18.97	269.24	6,901.3	-29.0	-2,175.9	0.00	0.00	0.00	0.00	
7,891.1	0.00	0.00	7,522.0	-30.4	-2,279.6	3.00	-3.00	0.00	180.00	E34 496 8508E-33 TC
7,936.0	0.22	236.40	7,566.9	-30.4	-2,279.7	0.50	0.50	-275.34	236.40	
12,506.2	0.22	236.40	12,137.0	-40.4	-2,294.6	0.00	0.00	0.00	0.00	E34 496 8508E-33 PE
12,656.2	0.22	236.40	12,287.0	-40.7	-2,295.1	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>	8508E-33 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	1.50	269.24	300.0	0.0	-0.7	0.7	3.00	3.00	
400.0	4.50	269.24	399.8	-0.1	-5.9	5.9	3.00	3.00	
500.0	7.50	269.24	499.3	-0.2	-16.3	16.3	3.00	3.00	
600.0	10.50	269.24	598.0	-0.4	-32.0	32.0	3.00	3.00	
700.0	13.50	269.24	695.8	-0.7	-52.8	52.8	3.00	3.00	
800.0	16.50	269.24	792.4	-1.0	-78.6	78.6	3.00	3.00	
882.2	18.97	269.24	870.7	-1.4	-103.7	103.7	3.00	3.00	EOB; Inc=18.97°
900.0	18.97	269.24	887.6	-1.5	-109.5	109.5	0.00	0.00	
1,000.0	18.97	269.24	982.1	-1.9	-142.0	142.0	0.00	0.00	
1,100.0	18.97	269.24	1,076.7	-2.3	-174.5	174.5	0.00	0.00	
1,200.0	18.97	269.24	1,171.3	-2.8	-206.9	207.0	0.00	0.00	
1,206.1	18.97	269.24	1,177.0	-2.8	-208.9	208.9	0.00	0.00	A_GROOVE_TVD
1,300.0	18.97	269.24	1,265.8	-3.2	-239.4	239.5	0.00	0.00	
1,374.2	18.97	269.24	1,336.0	-3.5	-263.6	263.6	0.00	0.00	B_GROOVE_TVD
1,400.0	18.97	269.24	1,360.4	-3.6	-271.9	272.0	0.00	0.00	
1,415.4	18.97	269.24	1,375.0	-3.7	-277.0	277.0	0.00	0.00	B_GROOVE_BASE_TVD
1,500.0	18.97	269.24	1,455.0	-4.1	-304.4	304.5	0.00	0.00	
1,600.0	18.97	269.24	1,549.6	-4.5	-336.9	337.0	0.00	0.00	
1,700.0	18.97	269.24	1,644.1	-4.9	-369.4	369.5	0.00	0.00	
1,800.0	18.97	269.24	1,738.7	-5.4	-401.9	402.0	0.00	0.00	
1,900.0	18.97	269.24	1,833.3	-5.8	-434.4	434.5	0.00	0.00	
2,000.0	18.97	269.24	1,927.8	-6.2	-466.9	467.0	0.00	0.00	
2,100.0	18.97	269.24	2,022.4	-6.7	-499.4	499.5	0.00	0.00	
2,200.0	18.97	269.24	2,117.0	-7.1	-531.9	532.0	0.00	0.00	
2,300.0	18.97	269.24	2,211.6	-7.5	-564.4	564.5	0.00	0.00	
2,349.1	18.97	269.24	2,258.0	-7.7	-580.4	580.4	0.00	0.00	GARDEN_GULCH_TVD
2,400.0	18.97	269.24	2,306.1	-8.0	-596.9	597.0	0.00	0.00	
2,500.0	18.97	269.24	2,400.7	-8.4	-629.4	629.5	0.00	0.00	
2,600.0	18.97	269.24	2,495.3	-8.8	-661.9	662.0	0.00	0.00	
2,700.0	18.97	269.24	2,589.8	-9.3	-694.4	694.5	0.00	0.00	
2,800.0	18.97	269.24	2,684.4	-9.7	-726.9	727.0	0.00	0.00	
2,900.0	18.97	269.24	2,779.0	-10.1	-759.4	759.5	0.00	0.00	
3,000.0	18.97	269.24	2,873.6	-10.6	-791.9	792.0	0.00	0.00	
3,100.0	18.97	269.24	2,968.1	-11.0	-824.4	824.5	0.00	0.00	
3,200.0	18.97	269.24	3,062.7	-11.4	-856.9	857.0	0.00	0.00	
3,300.0	18.97	269.24	3,157.3	-11.9	-889.4	889.5	0.00	0.00	
3,400.0	18.97	269.24	3,251.8	-12.3	-921.9	922.0	0.00	0.00	
3,412.9	18.97	269.24	3,264.0	-12.3	-926.1	926.1	0.00	0.00	WASATCH_FM_TVD
3,500.0	18.97	269.24	3,346.4	-12.7	-954.4	954.5	0.00	0.00	
3,600.0	18.97	269.24	3,441.0	-13.2	-986.9	987.0	0.00	0.00	
3,700.0	18.97	269.24	3,535.6	-13.6	-1,019.4	1,019.5	0.00	0.00	
3,800.0	18.97	269.24	3,630.1	-14.0	-1,051.9	1,052.0	0.00	0.00	
3,900.0	18.97	269.24	3,724.7	-14.5	-1,084.4	1,084.5	0.00	0.00	
4,000.0	18.97	269.24	3,819.3	-14.9	-1,116.9	1,117.0	0.00	0.00	
4,100.0	18.97	269.24	3,913.8	-15.3	-1,149.4	1,149.5	0.00	0.00	
4,200.0	18.97	269.24	4,008.4	-15.8	-1,181.9	1,182.0	0.00	0.00	
4,300.0	18.97	269.24	4,103.0	-16.2	-1,214.4	1,214.5	0.00	0.00	
4,400.0	18.97	269.24	4,197.6	-16.6	-1,246.9	1,247.0	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>	8508E-33 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	18.97	269.24	4,292.1	-17.1	-1,279.4	1,279.5	0.00	0.00	
4,600.0	18.97	269.24	4,386.7	-17.5	-1,311.9	1,312.0	0.00	0.00	
4,700.0	18.97	269.24	4,481.3	-17.9	-1,344.3	1,344.5	0.00	0.00	
4,800.0	18.97	269.24	4,575.8	-18.4	-1,376.8	1,377.0	0.00	0.00	
4,900.0	18.97	269.24	4,670.4	-18.8	-1,409.3	1,409.5	0.00	0.00	
5,000.0	18.97	269.24	4,765.0	-19.2	-1,441.8	1,442.0	0.00	0.00	
5,100.0	18.97	269.24	4,859.6	-19.7	-1,474.3	1,474.5	0.00	0.00	
5,200.0	18.97	269.24	4,954.1	-20.1	-1,506.8	1,507.0	0.00	0.00	
5,300.0	18.97	269.24	5,048.7	-20.5	-1,539.3	1,539.5	0.00	0.00	
5,400.0	18.97	269.24	5,143.3	-21.0	-1,571.8	1,572.0	0.00	0.00	
5,500.0	18.97	269.24	5,237.8	-21.4	-1,604.3	1,604.5	0.00	0.00	
5,600.0	18.97	269.24	5,332.4	-21.8	-1,636.8	1,637.0	0.00	0.00	
5,639.8	18.97	269.24	5,370.0	-22.0	-1,649.7	1,649.9	0.00	0.00	WASATCH_G_TVD
5,700.0	18.97	269.24	5,427.0	-22.3	-1,669.3	1,669.5	0.00	0.00	
5,800.0	18.97	269.24	5,521.6	-22.7	-1,701.8	1,702.0	0.00	0.00	
5,900.0	18.97	269.24	5,616.1	-23.1	-1,734.3	1,734.5	0.00	0.00	
6,000.0	18.97	269.24	5,710.7	-23.6	-1,766.8	1,767.0	0.00	0.00	
6,100.0	18.97	269.24	5,805.3	-24.0	-1,799.3	1,799.5	0.00	0.00	
6,200.0	18.97	269.24	5,899.8	-24.4	-1,831.8	1,832.0	0.00	0.00	
6,300.0	18.97	269.24	5,994.4	-24.9	-1,864.3	1,864.5	0.00	0.00	
6,400.0	18.97	269.24	6,089.0	-25.3	-1,896.8	1,896.9	0.00	0.00	
6,500.0	18.97	269.24	6,183.6	-25.7	-1,929.3	1,929.4	0.00	0.00	
6,600.0	18.97	269.24	6,278.1	-26.2	-1,961.8	1,961.9	0.00	0.00	
6,700.0	18.97	269.24	6,372.7	-26.6	-1,994.3	1,994.4	0.00	0.00	
6,800.0	18.97	269.24	6,467.3	-27.0	-2,026.8	2,026.9	0.00	0.00	
6,900.0	18.97	269.24	6,561.8	-27.5	-2,059.3	2,059.4	0.00	0.00	
7,000.0	18.97	269.24	6,656.4	-27.9	-2,091.8	2,091.9	0.00	0.00	
7,100.0	18.97	269.24	6,751.0	-28.3	-2,124.3	2,124.4	0.00	0.00	
7,200.0	18.97	269.24	6,845.6	-28.8	-2,156.8	2,156.9	0.00	0.00	
7,258.9	18.97	269.24	6,901.3	-29.0	-2,175.9	2,176.1	0.00	0.00	Start Drop -3.00
7,300.0	17.73	269.24	6,940.3	-29.2	-2,188.9	2,189.0	3.00	-3.00	
7,400.0	14.73	269.24	7,036.3	-29.6	-2,216.8	2,217.0	3.00	-3.00	
7,500.0	11.73	269.24	7,133.6	-29.9	-2,239.7	2,239.9	3.00	-3.00	
7,600.0	8.73	269.24	7,232.0	-30.1	-2,257.5	2,257.6	3.00	-3.00	
7,700.0	5.73	269.24	7,331.2	-30.3	-2,270.0	2,270.2	3.00	-3.00	
7,800.0	2.73	269.24	7,430.9	-30.4	-2,277.4	2,277.6	3.00	-3.00	
7,891.1	0.00	0.00	7,522.0	-30.4	-2,279.6	2,279.8	3.00	-3.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
7,900.0	0.04	236.40	7,530.9	-30.4	-2,279.6	2,279.8	0.50	0.50	
7,936.0	0.22	236.40	7,566.9	-30.4	-2,279.7	2,279.9	0.50	0.50	
8,000.0	0.22	236.40	7,630.9	-30.6	-2,279.9	2,280.1	0.00	0.00	
8,100.0	0.22	236.40	7,730.9	-30.8	-2,280.2	2,280.4	0.00	0.00	
8,200.0	0.22	236.40	7,830.9	-31.0	-2,280.5	2,280.7	0.00	0.00	
8,300.0	0.22	236.40	7,930.9	-31.2	-2,280.9	2,281.1	0.00	0.00	
8,400.0	0.22	236.40	8,030.9	-31.5	-2,281.2	2,281.4	0.00	0.00	
8,500.0	0.22	236.40	8,130.9	-31.7	-2,281.5	2,281.7	0.00	0.00	
8,600.0	0.22	236.40	8,230.9	-31.9	-2,281.8	2,282.0	0.00	0.00	
8,700.0	0.22	236.40	8,330.9	-32.1	-2,282.2	2,282.4	0.00	0.00	
8,800.0	0.22	236.40	8,430.9	-32.3	-2,282.5	2,282.7	0.00	0.00	
8,900.0	0.22	236.40	8,530.9	-32.5	-2,282.8	2,283.0	0.00	0.00	
9,000.0	0.22	236.40	8,630.9	-32.8	-2,283.1	2,283.4	0.00	0.00	
9,100.0	0.22	236.40	8,730.9	-33.0	-2,283.5	2,283.7	0.00	0.00	
9,200.0	0.22	236.40	8,830.9	-33.2	-2,283.8	2,284.0	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>	8508E-33 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	236.40	8,930.9	-33.4	-2,284.1	2,284.4	0.00	0.00	
9,400.0	0.22	236.40	9,030.9	-33.6	-2,284.4	2,284.7	0.00	0.00	
9,500.0	0.22	236.40	9,130.9	-33.8	-2,284.8	2,285.0	0.00	0.00	
9,600.0	0.22	236.40	9,230.9	-34.1	-2,285.1	2,285.3	0.00	0.00	
9,700.0	0.22	236.40	9,330.9	-34.3	-2,285.4	2,285.7	0.00	0.00	
9,800.0	0.22	236.40	9,430.9	-34.5	-2,285.8	2,286.0	0.00	0.00	
9,900.0	0.22	236.40	9,530.9	-34.7	-2,286.1	2,286.3	0.00	0.00	
10,000.0	0.22	236.40	9,630.9	-34.9	-2,286.4	2,286.7	0.00	0.00	
10,100.0	0.22	236.40	9,730.9	-35.1	-2,286.7	2,287.0	0.00	0.00	
10,200.0	0.22	236.40	9,830.9	-35.4	-2,287.1	2,287.3	0.00	0.00	
10,300.0	0.22	236.40	9,930.9	-35.6	-2,287.4	2,287.7	0.00	0.00	
10,400.0	0.22	236.40	10,030.8	-35.8	-2,287.7	2,288.0	0.00	0.00	
10,500.0	0.22	236.40	10,130.8	-36.0	-2,288.0	2,288.3	0.00	0.00	
10,600.0	0.22	236.40	10,230.8	-36.2	-2,288.4	2,288.6	0.00	0.00	
10,700.0	0.22	236.40	10,330.8	-36.4	-2,288.7	2,289.0	0.00	0.00	
10,800.0	0.22	236.40	10,430.8	-36.7	-2,289.0	2,289.3	0.00	0.00	
10,900.0	0.22	236.40	10,530.8	-36.9	-2,289.3	2,289.6	0.00	0.00	
10,928.2	0.22	236.40	10,559.0	-36.9	-2,289.4	2,289.7	0.00	0.00	CAMEO_TVD
11,000.0	0.22	236.40	10,630.8	-37.1	-2,289.7	2,290.0	0.00	0.00	
11,100.0	0.22	236.40	10,730.8	-37.3	-2,290.0	2,290.3	0.00	0.00	
11,200.0	0.22	236.40	10,830.8	-37.5	-2,290.3	2,290.6	0.00	0.00	
11,300.0	0.22	236.40	10,930.8	-37.7	-2,290.6	2,291.0	0.00	0.00	
11,400.0	0.22	236.40	11,030.8	-38.0	-2,291.0	2,291.3	0.00	0.00	
11,466.2	0.22	236.40	11,097.0	-38.1	-2,291.2	2,291.5	0.00	0.00	ROLLINS_TVD
11,500.0	0.22	236.40	11,130.8	-38.2	-2,291.3	2,291.6	0.00	0.00	
11,600.0	0.22	236.40	11,230.8	-38.4	-2,291.6	2,291.9	0.00	0.00	
11,700.0	0.22	236.40	11,330.8	-38.6	-2,292.0	2,292.3	0.00	0.00	
11,710.2	0.22	236.40	11,341.0	-38.6	-2,292.0	2,292.3	0.00	0.00	COZZETTE_TVD
11,800.0	0.22	236.40	11,430.8	-38.8	-2,292.3	2,292.6	0.00	0.00	
11,900.0	0.22	236.40	11,530.8	-39.0	-2,292.6	2,292.9	0.00	0.00	
11,902.2	0.22	236.40	11,533.0	-39.0	-2,292.6	2,292.9	0.00	0.00	CORCORAN_TVD
12,000.0	0.22	236.40	11,630.8	-39.3	-2,292.9	2,293.3	0.00	0.00	
12,100.0	0.22	236.40	11,730.8	-39.5	-2,293.3	2,293.6	0.00	0.00	
12,200.0	0.22	236.40	11,830.8	-39.7	-2,293.6	2,293.9	0.00	0.00	
12,206.2	0.22	236.40	11,837.0	-39.7	-2,293.6	2,293.9	0.00	0.00	UPPER_SEGO_TVD
12,300.0	0.22	236.40	11,930.8	-39.9	-2,293.9	2,294.3	0.00	0.00	
12,356.2	0.22	236.40	11,987.0	-40.0	-2,294.1	2,294.4	0.00	0.00	SEGO_BASE_TARGET_TVD
12,400.0	0.22	236.40	12,030.8	-40.1	-2,294.2	2,294.6	0.00	0.00	
12,500.0	0.22	236.40	12,130.8	-40.3	-2,294.6	2,294.9	0.00	0.00	
12,506.2	0.22	236.40	12,137.0	-40.4	-2,294.6	2,294.9	0.00	0.00	Drillers TD @ 12,506' MD - E34 496 8508E-33 I
12,600.0	0.22	236.40	12,230.8	-40.6	-2,294.9	2,295.2	0.00	0.00	
12,656.2	0.22	236.40	12,287.0	-40.7	-2,295.1	2,295.4	0.00	0.00	Permit TD @ 12,656' MD

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 E34 496	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
E34 496 8508E-33 TGT	0.00	0.00	7,522.0	-30.4	-2,279.6	1,676,273.39	2,248,757.68	39° 39' 35.518 N	108° 10' 7.318 W
- plan hits target center									
- Point									
E34 496 8508E-33 PBH	0.00	0.00	12,137.0	-40.4	-2,294.6	1,676,263.88	2,248,742.41	39° 39' 35.420 N	108° 10' 7.510 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,206.1	1,177.0	A_GROOVE_TVD				
1,374.2	1,336.0	B_GROOVE_TVD				
1,415.4	1,375.0	B_GROOVE_BASE_TVD				
2,349.1	2,258.0	GARDEN_GULCH_TVD				
3,412.9	3,264.0	WASATCH_FM_TVD				
5,639.8	5,370.0	WASATCH_G_TVD				
7,891.1	7,522.0	WILLIAMS_FORK_TVD				
10,928.2	10,559.0	CAMEO_TVD				
11,466.2	11,097.0	ROLLINS_TVD				
11,710.2	11,341.0	COZZETTE_TVD				
11,902.2	11,533.0	CORCORAN_TVD				
12,206.2	11,837.0	UPPER_SEGO_TVD				
12,356.2	11,987.0	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'
882.2	870.7	-1.4	-103.7	EOB; Inc=18.97°
7,258.9	6,901.3	-29.0	-2,175.9	Start Drop -3.00
7,891.1	7,522.0	-30.4	-2,279.6	EOD; Inc=0°
12,506.2	12,137.0	-30.4	-2,279.7	Drillers TD @ 12,506' MD
12,656.2	12,287.0	-40.4	-2,294.6	Permit TD @ 12,656' MD

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

**Story Gulch**

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

**8508E-33 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 8508E-33 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>	8508E-33 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	12,656.2	Plan #1 (DD)	MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S33-T4S-R96W (E34 496)						
8503B-34 E34 496 - DD - Plan #1	200.0	200.0	56.1	55.5	90.790	CC, ES
8503B-34 E34 496 - DD - Plan #1	500.0	488.1	82.8	81.1	48.053	SF
8503C-34 E34 496 - DD - Plan #1	200.0	200.0	48.0	47.3	77.634	CC, ES
8503C-34 E34 496 - DD - Plan #1	500.0	489.2	75.2	73.4	43.610	SF
8503D-34 E34 496 - DD - Plan #1	200.0	200.0	56.6	56.0	91.646	CC, ES
8503D-34 E34 496 - DD - Plan #1	500.0	487.8	85.1	83.4	49.544	SF
8503E-34 E34 496 - DD - Plan #1	200.0	200.0	48.6	48.0	78.703	CC, ES
8503E-34 E34 496 - DD - Plan #1	500.0	492.7	70.7	68.9	41.110	SF
8506A-34 E34 496 - DD - Plan #1	200.0	200.0	27.5	26.9	44.506	CC, ES
8506A-34 E34 496 - DD - Plan #1	400.0	397.5	35.7	34.4	26.883	SF
8506B-34 E34 496 - DD - Plan #1	200.0	200.0	28.5	27.9	46.120	CC, ES
8506B-34 E34 496 - DD - Plan #1	400.0	397.4	38.2	36.9	28.836	SF
8506C-34 E34 496 - DD - Plan #1	200.0	200.0	20.9	20.2	33.760	CC, ES
8506C-34 E34 496 - DD - Plan #1	400.0	398.0	31.2	29.9	23.597	SF
8506D-34 E34 496 - DD - Plan #1	200.0	200.0	7.9	7.3	12.763	CC, ES
8506D-34 E34 496 - DD - Plan #1	300.0	299.7	10.2	9.2	10.557	SF
8506E-34E 34 496 - DD - Plan #1	200.0	200.0	11.0	10.4	17.882	CC, ES
8506E-34E 34 496 - DD - Plan #1	300.0	299.6	13.0	12.1	13.467	SF
8508D-33 E34 496 - DD - Plan #1	200.0	200.0	20.4	19.8	32.987	CC
8508D-33 E34 496 - DD - Plan #1	300.0	300.0	20.5	19.5	21.005	ES
8508D-33 E34 496 - DD - Plan #1	2,800.0	2,796.1	98.8	70.0	3.431	SF
8508F-33 E34 496 - DD - Plan #1	200.0	200.0	8.2	7.6	13.344	CC, ES
8508F-33 E34 496 - DD - Plan #1	3,000.0	2,994.9	98.7	67.8	3.192	SF
8509A-33 E34 496 - DD - Plan #1	238.3	238.3	27.6	26.8	36.666	CC
8509A-33 E34 496 - DD - Plan #1	300.0	299.7	27.7	26.8	28.665	ES
8509A-33 E34 496 - DD - Plan #1	1,500.0	1,494.3	93.1	80.5	7.375	SF
8509B-33 E34 496 - DD - Plan #1	200.0	200.0	35.7	35.1	57.820	CC, ES
8509B-33 E34 496 - DD - Plan #1	1,000.0	988.1	90.7	84.2	13.994	SF
8509C-33 E34 496 - DD - Plan #1	200.0	200.0	56.2	55.6	90.957	CC, ES
8509C-33 E34 496 - DD - Plan #1	800.0	786.0	95.2	91.1	22.900	SF
8509D-33 E34 496 - DD - Plan #1	200.0	200.0	64.3	63.7	104.109	CC, ES
8509D-33 E34 496 - DD - Plan #1	700.0	686.5	96.1	92.9	30.169	SF
8509E-33 E34 496 - DD - Plan #1	238.4	238.4	83.8	83.0	111.395	CC, ES
8509E-33 E34 496 - DD - Plan #1	500.0	492.4	92.2	90.5	51.668	SF
8511A-34 E34 496 - DD - Plan #1	200.0	200.0	29.6	29.0	47.919	CC
8511A-34 E34 496 - DD - Plan #1	229.5	229.5	29.6	28.9	41.081	ES
8511A-34 E34 496 - DD - Plan #1	400.0	398.2	34.5	33.2	25.938	SF
8511C-34 E34 496 - DD - Plan #1	200.0	200.0	36.6	35.9	59.173	CC, ES
8511C-34 E34 496 - DD - Plan #1	500.0	494.1	56.4	54.7	32.676	SF
8511D-34 E34 496 - DD - Plan #1	239.2	239.2	56.7	55.9	75.073	CC, ES
8511D-34 E34 496 - DD - Plan #1	600.0	589.0	84.9	82.7	38.881	SF
8511E-34 E34 496 - DD - Plan #1	200.0	200.0	64.8	64.1	104.819	CC, ES
8511E-34 E34 496 - DD - Plan #1	600.0	586.2	97.8	95.7	44.630	SF
8514A-34 E34 496 - DD - Plan #1	302.4	302.3	84.0	83.0	86.079	CC, ES
8514A-34 E34 496 - DD - Plan #1	500.0	490.2	94.7	93.0	54.655	SF
8514C-34 E34 496 - DD - Plan #1	238.7	238.7	92.2	91.4	122.407	CC, ES
8514C-34 E34 496 - DD - Plan #1	400.0	392.8	97.6	96.2	73.741	SF
8514D-34 E34 496 - DD - Plan #1						Out of range
8514E-34 E34 496 - DD - Plan #1						Out of range
8516A-33 E34 496 - DD - Plan #1	200.0	200.0	91.9	91.3	148.776	CC, ES
8516A-33 E34 496 - DD - Plan #1	400.0	392.8	98.4	97.1	73.125	SF
8516B-33 E34 496 - DD - Plan #1						Out of range
8516C-33 E34 496 - DD - Plan #1						Out of range

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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	Offset Measured Depth	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	Between Centres (ft)	Between Ellipses (ft)		
S33-T4S-R96W (E34 496)						
8516E-33 E34 496 - DD - Plan #1						Out of range
CP01B-33 (Existing) - Existing - Existing						Out of range
CP08B-33 (Existing) - Existing - Existing						Out of range
UWF03A-03 E34 596 - DD - Plan #1						Out of range
UWF03B-03 E34 596 - DD - Plan #1						Out of range
UWF03C-03 E34 596 - DD - Plan #1						Out of range

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8503B-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 +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	7.21	55.7	7.0	56.1								
100.0	100.0	100.0	100.0	0.1	0.1	7.21	55.7	7.0	56.1	55.8	0.27	208.698					
200.0	200.0	200.0	200.0	0.3	0.3	7.21	55.7	7.0	56.1	55.5	0.62	90.790	CC, ES				
300.0	300.0	297.1	297.0	0.5	0.5	98.67	58.1	7.5	58.7	57.8	0.96	61.025					
400.0	399.8	393.4	393.0	0.7	0.7	102.99	65.3	8.9	67.3	66.0	1.32	50.906					
500.0	499.3	488.1	487.0	0.9	1.0	109.09	77.0	11.1	82.8	81.1	1.72	48.053	SF				

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8503C-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	Separation	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
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	CC, ES					
300.0	300.0	297.5	297.4	0.5	0.5	99.16	50.0	6.8	50.6	49.6	0.96	52.550						
400.0	399.8	394.2	393.8	0.7	0.7	104.28	57.2	8.4	59.3	58.0	1.32	44.815						
500.0	499.3	489.2	488.1	0.9	1.0	111.12	68.9	11.0	75.2	73.4	1.72	43.610	SF					
600.0	598.0	581.7	579.2	1.2	1.3	117.19	84.7	14.5	98.8	96.6	2.18	45.342						

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8503D-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 +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	15.21	54.6	14.9	56.6					
100.0	100.0	100.0	100.0	0.1	0.1	15.21	54.6	14.9	56.6	56.4	0.27	210.667		
200.0	200.0	200.0	200.0	0.3	0.3	15.21	54.6	14.9	56.6	56.0	0.62	91.646 CC, ES		
300.0	300.0	297.0	297.0	0.5	0.5	106.48	57.0	15.5	59.3	58.4	0.96	61.676		
400.0	399.8	393.3	392.9	0.7	0.7	110.14	64.1	17.3	68.6	67.3	1.32	51.909		
500.0	499.3	487.8	486.8	0.9	1.0	115.32	75.6	20.3	85.1	83.4	1.72	49.544 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8503E-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	Separation	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S	+E/-W	(ft)	(ft)	Axis	Factor						
0.0	0.0	0.0	0.0	0.0	0.0	16.83	46.5	14.1	48.6									
100.0	100.0	100.0	100.0	0.1	0.1	16.83	46.5	14.1	48.6	48.4	0.27	180.915						
200.0	200.0	200.0	200.0	0.3	0.3	16.83	46.5	14.1	48.6	48.0	0.62	78.703 CC, ES						
300.0	300.0	298.3	298.3	0.5	0.5	108.27	48.1	14.6	50.5	49.6	0.96	52.410						
400.0	399.8	396.1	395.9	0.7	0.7	112.96	52.9	16.1	57.5	56.2	1.33	43.415						
500.0	499.3	492.7	492.2	0.9	0.9	119.72	60.8	18.6	70.7	68.9	1.72	41.110 SF						
600.0	598.0	587.7	586.5	1.2	1.1	126.12	71.5	22.0	90.7	88.5	2.15	42.139						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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										
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	6.53	27.3	3.1	27.5								
100.0	100.0	100.0	100.0	0.1	0.1	6.53	27.3	3.1	27.5	27.2	0.27	102.306					
200.0	200.0	200.0	200.0	0.3	0.3	6.53	27.3	3.1	27.5	26.9	0.62	44.506	CC, ES				
300.0	300.0	299.0	299.0	0.5	0.5	99.47	28.9	3.8	29.3	28.3	0.97	30.291					
400.0	399.8	397.5	397.4	0.7	0.7	109.56	33.6	5.8	35.7	34.4	1.33	26.883	SF				
500.0	499.3	494.8	494.3	0.9	0.9	121.37	41.3	9.1	48.9	47.2	1.72	28.454					
600.0	598.0	590.8	589.6	1.2	1.1	130.42	51.7	13.5	69.7	67.6	2.14	32.613					
700.0	695.8	686.7	684.7	1.6	1.4	137.04	62.9	18.3	96.1	93.5	2.58	37.177					

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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 (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	22.60	26.3	10.9	28.5								
100.0	100.0	100.0	100.0	0.1	0.1	22.60	26.3	10.9	28.5	28.2	0.27	106.016					
200.0	200.0	200.0	200.0	0.3	0.3	22.60	26.3	10.9	28.5	27.9	0.62	46.120	CC, ES				
300.0	300.0	299.0	298.9	0.5	0.5	114.92	27.8	11.8	30.5	29.5	0.97	31.560					
400.0	399.8	397.4	397.2	0.7	0.7	122.74	32.1	14.5	38.2	36.9	1.32	28.836	SF				
500.0	499.3	494.9	494.4	0.9	0.9	131.72	39.2	18.8	53.0	51.3	1.70	31.104					
600.0	598.0	592.5	591.6	1.2	1.1	139.19	46.9	23.5	73.2	71.1	2.10	34.845					
700.0	695.8	688.9	687.5	1.6	1.3	145.01	54.6	28.1	98.3	95.8	2.51	39.203					



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8506C-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	29.17	18.2	10.2	20.9								
100.0	100.0	100.0	100.0	0.1	0.1	29.17	18.2	10.2	20.9	20.6	0.27	77.604					
200.0	200.0	200.0	200.0	0.3	0.3	29.17	18.2	10.2	20.9	20.2	0.62	33.760	CC, ES				
300.0	300.0	299.3	299.2	0.5	0.5	122.69	19.4	11.4	22.9	21.9	0.97	23.653					
400.0	399.8	398.0	397.8	0.7	0.7	133.17	22.8	15.2	31.2	29.9	1.32	23.597	SF				
500.0	499.3	496.7	496.3	0.9	0.9	143.28	27.1	20.0	45.6	43.9	1.69	27.027					
600.0	598.0	594.5	593.9	1.2	1.1	150.72	31.4	24.7	65.1	63.1	2.05	31.767					
700.0	695.8	691.1	690.3	1.6	1.3	155.98	35.6	29.4	90.0	87.6	2.41	37.312					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8506D-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	97.37	-1.0	7.8	7.9				
100.0	100.0	100.0	100.0	0.1	0.1	97.37	-1.0	7.8	7.9	7.6	0.27	29.339	
200.0	200.0	200.0	200.0	0.3	0.3	97.37	-1.0	7.8	7.9	7.3	0.62	12.763 CC, ES	
300.0	300.0	299.7	299.7	0.5	0.5	-175.51	-0.7	9.5	10.2	9.2	0.97	10.557 SF	
400.0	399.8	399.0	398.9	0.7	0.7	179.86	0.2	14.0	19.9	18.6	1.31	15.196	
500.0	499.3	497.8	497.6	0.9	0.9	178.44	1.2	18.8	35.2	33.6	1.65	21.298	
600.0	598.0	595.7	595.3	1.2	1.0	178.06	2.1	23.5	55.6	53.6	1.99	27.983	
700.0	695.8	692.4	691.9	1.6	1.2	178.01	3.1	28.2	81.2	78.8	2.32	35.045	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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							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	145.51	-9.1	6.3	11.0								
100.0	100.0	100.0	100.0	0.1	0.1	145.51	-9.1	6.3	11.0	10.8	0.27	41.106					
200.0	200.0	200.0	200.0	0.3	0.3	145.51	-9.1	6.3	11.0	10.4	0.62	17.882 CC, ES					
300.0	300.0	299.6	299.6	0.5	0.5	-129.63	-9.9	7.8	13.0	12.1	0.97	13.467 SF					
400.0	399.8	398.8	398.7	0.7	0.7	-145.05	-12.2	12.1	21.7	20.4	1.32	16.465					
500.0	499.3	497.6	497.3	0.9	0.9	-155.30	-14.7	16.9	36.3	34.6	1.67	21.758					
600.0	598.0	595.4	595.0	1.2	1.1	-161.36	-17.2	21.7	56.3	54.3	2.02	27.934					
700.0	695.8	692.1	691.5	1.6	1.2	-165.15	-19.7	26.4	81.5	79.1	2.35	34.613					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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		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	6.61	20.2	2.3	20.4					
100.0	100.0	100.0	100.0	0.1	0.1	6.61	20.2	2.3	20.4	20.1	0.27	75.827		
200.0	200.0	200.0	200.0	0.3	0.3	6.61	20.2	2.3	20.4	19.8	0.62	32.987 CC		
300.0	300.0	300.0	300.0	0.5	0.5	91.86	20.5	-0.3	20.5	19.5	0.98	21.005 ES		
400.0	399.8	399.8	399.4	0.7	0.7	84.89	21.2	-8.0	21.4	20.0	1.39	15.426		
500.0	499.3	499.4	498.2	0.9	1.0	78.93	22.4	-21.0	23.1	21.2	1.90	12.178		
600.0	598.0	599.0	596.1	1.2	1.4	74.26	24.1	-39.0	25.6	23.0	2.54	10.090		
700.0	695.8	698.4	692.7	1.6	1.8	70.87	26.2	-62.0	28.7	25.4	3.31	8.664		
800.0	792.4	797.6	787.9	2.1	2.4	68.58	28.8	-90.0	32.3	28.1	4.23	7.636		
900.0	887.6	897.3	882.3	2.7	2.9	68.77	31.8	-121.8	35.9	30.6	5.30	6.771		
1,000.0	982.1	997.2	976.9	3.3	3.5	71.07	34.8	-154.0	39.0	32.5	6.47	6.022		
1,100.0	1,076.7	1,097.1	1,071.4	3.9	4.2	73.04	37.8	-186.2	42.1	34.5	7.67	5.491		
1,200.0	1,171.3	1,197.1	1,166.0	4.5	4.8	74.72	40.8	-218.3	45.3	36.4	8.89	5.098		
1,300.0	1,265.8	1,297.0	1,260.6	5.1	5.4	76.19	43.8	-250.5	48.6	38.4	10.12	4.798		
1,400.0	1,360.4	1,397.0	1,355.2	5.7	6.0	77.47	46.8	-282.7	51.8	40.5	11.36	4.563		
1,500.0	1,455.0	1,496.9	1,449.7	6.4	6.6	78.60	49.8	-314.9	55.1	42.5	12.60	4.374		
1,600.0	1,549.6	1,596.8	1,544.3	7.0	7.2	79.60	52.8	-347.0	58.4	44.6	13.84	4.220		
1,700.0	1,644.1	1,696.8	1,638.9	7.6	7.8	80.50	55.8	-379.2	61.7	46.6	15.09	4.091		
1,800.0	1,738.7	1,796.7	1,733.4	8.2	8.4	81.30	58.8	-411.4	65.1	48.7	16.33	3.983		
1,900.0	1,833.3	1,896.7	1,828.0	8.8	9.1	82.03	61.8	-443.6	68.4	50.8	17.58	3.891		
2,000.0	1,927.8	1,996.6	1,922.6	9.4	9.7	82.68	64.8	-475.7	71.7	52.9	18.82	3.811		
2,100.0	2,022.4	2,096.6	2,017.2	10.1	10.3	83.28	67.8	-507.9	75.1	55.0	20.07	3.742		
2,200.0	2,117.0	2,196.5	2,111.7	10.7	10.9	83.83	70.8	-540.1	78.5	57.2	21.32	3.681		
2,300.0	2,211.6	2,296.4	2,206.3	11.3	11.5	84.33	73.8	-572.2	81.8	59.3	22.56	3.627		
2,400.0	2,306.1	2,396.4	2,300.9	11.9	12.1	84.79	76.8	-604.4	85.2	61.4	23.81	3.579		
2,500.0	2,400.7	2,496.3	2,395.5	12.5	12.7	85.22	79.8	-636.6	88.6	63.5	25.06	3.536		
2,600.0	2,495.3	2,596.3	2,490.0	13.2	13.4	85.62	82.8	-668.8	92.0	65.7	26.30	3.498		
2,700.0	2,589.8	2,696.2	2,584.6	13.8	14.0	85.99	85.8	-700.9	95.4	67.8	27.55	3.463		
2,800.0	2,684.4	2,796.1	2,679.2	14.4	14.6	86.33	88.8	-733.1	98.8	70.0	28.79	3.431 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8508F-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		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	-169.06	-8.1	-1.6	8.2					
100.0	100.0	100.0	100.0	0.1	0.1	-169.06	-8.1	-1.6	8.2	8.0	0.27	30.673		
200.0	200.0	200.0	200.0	0.3	0.3	-169.06	-8.1	-1.6	8.2	7.6	0.62	13.344 CC, ES		
300.0	300.0	299.8	299.8	0.5	0.5	-66.63	-8.4	-4.2	9.1	8.1	0.97	9.358		
400.0	399.8	399.5	399.1	0.7	0.7	-56.24	-9.4	-11.9	11.1	9.7	1.36	8.157		
500.0	499.3	499.0	497.8	0.9	1.0	-50.87	-11.0	-24.7	13.7	11.9	1.80	7.636		
600.0	598.0	598.4	595.5	1.2	1.4	-48.69	-13.2	-42.6	16.9	14.5	2.32	7.276		
700.0	695.8	697.6	692.0	1.6	1.8	-48.38	-16.1	-65.5	20.3	17.4	2.94	6.913		
800.0	792.4	796.7	787.0	2.1	2.4	-49.14	-19.5	-93.3	24.2	20.5	3.72	6.513		
900.0	887.6	896.2	881.2	2.7	2.9	-51.84	-23.5	-125.2	27.8	23.1	4.69	5.929		
1,000.0	982.1	996.2	975.7	3.3	3.5	-56.15	-27.6	-157.5	30.7	24.8	5.83	5.255		
1,100.0	1,076.7	1,096.1	1,070.2	3.9	4.2	-59.70	-31.6	-189.8	33.7	26.6	7.03	4.786		
1,200.0	1,171.3	1,196.0	1,164.7	4.5	4.8	-62.67	-35.6	-222.1	36.8	28.5	8.26	4.451		
1,300.0	1,265.8	1,296.0	1,259.2	5.1	5.4	-65.16	-39.7	-254.4	40.0	30.5	9.51	4.204		
1,400.0	1,360.4	1,395.9	1,353.6	5.7	6.0	-67.28	-43.7	-286.7	43.2	32.5	10.76	4.016		
1,500.0	1,455.0	1,495.8	1,448.1	6.4	6.6	-69.11	-47.7	-319.0	46.5	34.5	12.03	3.870		
1,600.0	1,549.6	1,595.8	1,542.6	7.0	7.2	-70.69	-51.8	-351.4	49.9	36.6	13.29	3.755		
1,700.0	1,644.1	1,695.7	1,637.1	7.6	7.9	-72.07	-55.8	-383.7	53.3	38.7	14.55	3.661		
1,800.0	1,738.7	1,795.6	1,731.6	8.2	8.5	-73.28	-59.8	-416.0	56.7	40.9	15.82	3.584		
1,900.0	1,833.3	1,895.6	1,826.0	8.8	9.1	-74.36	-63.9	-448.3	60.1	43.0	17.08	3.520		
2,000.0	1,927.8	1,995.5	1,920.5	9.4	9.7	-75.32	-67.9	-480.6	63.6	45.2	18.35	3.466		
2,100.0	2,022.4	2,095.4	2,015.0	10.1	10.3	-76.18	-71.9	-512.9	67.1	47.4	19.61	3.420		
2,200.0	2,117.0	2,195.4	2,109.5	10.7	11.0	-76.95	-76.0	-545.3	70.5	49.7	20.87	3.380		
2,300.0	2,211.6	2,295.3	2,204.0	11.3	11.6	-77.65	-80.0	-577.6	74.0	51.9	22.13	3.345		
2,400.0	2,306.1	2,395.2	2,298.4	11.9	12.2	-78.29	-84.0	-609.9	77.5	54.1	23.39	3.315		
2,500.0	2,400.7	2,495.2	2,392.9	12.5	12.8	-78.88	-88.1	-642.2	81.1	56.4	24.65	3.288		
2,600.0	2,495.3	2,595.1	2,487.4	13.2	13.4	-79.41	-92.1	-674.5	84.6	58.7	25.90	3.265		
2,700.0	2,589.8	2,695.0	2,581.9	13.8	14.1	-79.90	-96.1	-706.8	88.1	60.9	27.16	3.244		
2,800.0	2,684.4	2,795.0	2,676.4	14.4	14.7	-80.36	-100.2	-739.2	91.6	63.2	28.42	3.225		
2,900.0	2,779.0	2,894.9	2,770.8	15.0	15.3	-80.78	-104.2	-771.5	95.2	65.5	29.67	3.208		
3,000.0	2,873.6	2,994.9	2,865.3	15.6	15.9	-81.17	-108.2	-803.8	98.7	67.8	30.93	3.192 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8509A-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	-171.85	-27.3	-3.9	27.6					
100.0	100.0	100.0	100.0	0.1	0.1	-171.85	-27.3	-3.9	27.6	27.3	0.27	102.678		
200.0	200.0	200.0	200.0	0.3	0.3	-171.85	-27.3	-3.9	27.6	27.0	0.62	44.668		
238.3	238.3	238.3	238.3	0.4	0.4	-81.49	-27.3	-3.9	27.6	26.8	0.75	36.666 CC		
300.0	300.0	299.7	299.7	0.5	0.5	-81.17	-27.5	-4.5	27.7	26.8	0.97	28.665 ES		
400.0	399.8	399.2	399.1	0.7	0.7	-81.76	-28.6	-9.6	28.8	27.5	1.35	21.333		
500.0	499.3	498.7	498.0	0.9	0.9	-82.81	-31.0	-19.7	31.0	29.1	1.82	16.961		
600.0	598.0	598.1	596.1	1.2	1.2	-84.13	-34.4	-34.7	34.2	31.7	2.44	14.014		
700.0	695.8	697.4	693.3	1.6	1.6	-85.52	-39.1	-54.7	38.5	35.3	3.22	11.940		
800.0	792.4	796.7	789.2	2.1	2.1	-86.86	-44.8	-79.6	43.9	39.7	4.20	10.459		
900.0	887.6	895.9	883.6	2.7	2.7	-87.99	-51.7	-109.3	50.4	45.0	5.35	9.411		
1,000.0	982.1	995.6	977.6	3.3	3.3	-87.93	-59.2	-141.8	57.5	51.0	6.54	8.794		
1,100.0	1,076.7	1,095.3	1,071.6	3.9	3.9	-87.87	-66.7	-174.4	64.6	56.9	7.74	8.348		
1,200.0	1,171.3	1,195.1	1,165.6	4.5	4.5	-87.82	-74.3	-206.9	71.7	62.8	8.95	8.012		
1,300.0	1,265.8	1,294.8	1,259.5	5.1	5.2	-87.78	-81.8	-239.5	78.8	68.7	10.17	7.752		
1,400.0	1,360.4	1,394.6	1,353.5	5.7	5.8	-87.75	-89.3	-272.0	86.0	74.6	11.39	7.544		
1,500.0	1,455.0	1,494.3	1,447.5	6.4	6.4	-87.72	-96.8	-304.5	93.1	80.5	12.62	7.375 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8509B-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	-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	CC, ES	
300.0	300.0	299.1	299.0	0.5	0.5	-79.14	-36.3	-7.1	36.9	35.9	0.97	37.948		
400.0	399.8	398.0	397.6	0.7	0.7	-76.86	-39.0	-14.3	39.9	38.5	1.37	29.143		
500.0	499.3	496.6	495.5	0.9	1.0	-75.87	-43.5	-26.2	44.6	42.7	1.86	24.020		
600.0	598.0	595.1	592.3	1.2	1.3	-75.91	-49.7	-42.8	50.8	48.4	2.47	20.577		
700.0	695.8	693.2	687.8	1.6	1.8	-76.62	-57.7	-64.0	58.7	55.4	3.24	18.086		
800.0	792.4	791.1	781.7	2.1	2.3	-77.70	-67.4	-89.6	68.1	63.9	4.20	16.223		
900.0	887.6	888.8	874.0	2.7	2.9	-78.96	-78.7	-119.7	79.0	73.7	5.31	14.881		
1,000.0	982.1	988.1	967.1	3.3	3.6	-80.14	-90.8	-151.9	90.7	84.2	6.48	13.994	SF	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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													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	-172.00	-55.7	-7.8	56.2					
100.0	100.0	100.0	100.0	0.1	0.1	-172.00	-55.7	-7.8	56.2	55.9	0.27	209.083		
200.0	200.0	200.0	200.0	0.3	0.3	-172.00	-55.7	-7.8	56.2	55.6	0.62	90.957 CC, ES		
300.0	300.0	298.3	298.3	0.5	0.5	-79.75	-56.8	-10.1	57.6	56.6	0.97	59.321		
400.0	399.8	396.5	396.1	0.7	0.7	-78.59	-60.0	-16.9	61.1	59.7	1.36	44.807		
500.0	499.3	494.4	493.2	0.9	1.0	-78.36	-65.5	-28.2	66.6	64.8	1.84	36.134		
600.0	598.0	592.0	589.2	1.2	1.3	-78.86	-73.1	-43.9	74.2	71.7	2.45	30.246		
700.0	695.8	689.2	683.9	1.6	1.8	-79.83	-82.8	-63.9	83.7	80.5	3.22	26.014		
800.0	792.4	786.0	776.8	2.1	2.3	-81.05	-94.5	-88.1	95.2	91.1	4.16	22.900 SF		



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8509D-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	-172.31	-63.7	-8.6	64.3					
100.0	100.0	100.0	100.0	0.1	0.1	-172.31	-63.7	-8.6	64.3	64.1	0.27	239.315		
200.0	200.0	200.0	200.0	0.3	0.3	-172.31	-63.7	-8.6	64.3	63.7	0.62	104.109 CC, ES		
300.0	300.0	297.9	297.8	0.5	0.5	-80.36	-65.0	-10.8	65.8	64.9	0.97	67.959		
400.0	399.8	395.6	395.2	0.7	0.7	-79.64	-68.9	-17.2	69.9	68.5	1.36	51.441		
500.0	499.3	493.0	491.8	0.9	1.0	-79.85	-75.2	-27.9	76.3	74.4	1.83	41.613		
600.0	598.0	590.0	587.3	1.2	1.3	-80.76	-84.1	-42.7	85.0	82.6	2.43	34.952		
700.0	695.8	686.5	681.3	1.6	1.8	-82.07	-95.3	-61.5	96.1	92.9	3.19	30.169 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8509E-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	-171.95	-83.0	-11.7	83.8					
100.0	100.0	100.0	100.0	0.1	0.1	-171.95	-83.0	-11.7	83.8	83.5	0.27	311.761		
200.0	200.0	200.0	200.0	0.3	0.3	-171.95	-83.0	-11.7	83.8	83.2	0.62	135.625		
238.4	238.4	238.4	238.4	0.4	0.4	-81.32	-83.0	-11.7	83.8	83.0	0.75	111.395 CC, ES		
300.0	300.0	298.5	298.5	0.5	0.5	-81.30	-83.3	-12.2	84.1	83.2	0.97	87.166		
400.0	399.8	395.6	395.4	0.7	0.7	-82.16	-86.2	-16.3	86.8	85.5	1.34	64.923		
500.0	499.3	492.4	491.7	0.9	0.9	-83.71	-91.8	-24.3	92.2	90.5	1.79	51.668 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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 +N/-S (ft)	Centre +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	172.41	-29.3	3.9	29.6								
100.0	100.0	100.0	100.0	0.1	0.1	172.41	-29.3	3.9	29.6	29.3	0.27	110.152					
200.0	200.0	200.0	200.0	0.3	0.3	172.41	-29.3	3.9	29.6	29.0	0.62	47.919	CC				
229.5	229.5	229.5	229.5	0.4	0.4	-97.04	-29.3	3.9	29.6	28.9	0.72	41.081	ES				
300.0	300.0	299.5	299.5	0.5	0.5	-98.47	-29.7	4.2	30.1	29.1	0.97	31.099					
400.0	399.8	398.2	398.2	0.7	0.7	-109.77	-32.3	6.4	34.5	33.2	1.33	25.938	SF				
500.0	499.3	496.0	495.7	0.9	0.9	-124.42	-37.4	10.6	46.1	44.3	1.72	26.855					
600.0	598.0	593.7	593.1	1.2	1.1	-136.08	-43.3	15.5	64.1	62.0	2.11	30.424					
700.0	695.8	690.2	689.3	1.6	1.3	-144.35	-49.1	20.3	87.9	85.4	2.50	35.158					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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			Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor						
0.0	0.0	0.0	0.0	0.0	0.0	175.09	-36.4	3.1	36.6									
100.0	100.0	100.0	100.0	0.1	0.1	175.09	-36.4	3.1	36.6	36.3	0.27	136.022						
200.0	200.0	200.0	200.0	0.3	0.3	175.09	-36.4	3.1	36.6	35.9	0.62	59.173 CC, ES						
300.0	300.0	298.7	298.7	0.5	0.5	-95.76	-38.0	3.7	38.3	37.3	0.97	39.652						
400.0	399.8	397.0	396.8	0.7	0.7	-103.85	-42.8	5.5	44.3	43.0	1.33	33.322						
500.0	499.3	494.1	493.5	0.9	0.9	-114.57	-50.5	8.4	56.4	54.7	1.73	32.676 SF						
600.0	598.0	589.3	588.1	1.2	1.1	-123.82	-61.1	12.4	75.9	73.7	2.16	35.153						

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 8511D-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	-180.00	-56.7	0.0	56.7								
100.0	100.0	100.0	100.0	0.1	0.1	-180.00	-56.7	0.0	56.7	56.4	0.27	210.813					
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-56.7	0.0	56.7	56.0	0.62	91.710					
239.2	239.2	239.2	239.2	0.4	0.4	-89.44	-56.7	0.0	56.7	55.9	0.75	75.073	CC, ES				
300.0	300.0	299.1	299.1	0.5	0.5	-89.99	-57.1	0.1	57.1	56.1	0.97	59.088					
400.0	399.8	396.9	396.8	0.7	0.7	-95.60	-60.3	1.1	60.7	59.3	1.33	45.622					
500.0	499.3	493.7	493.4	0.9	0.9	-104.73	-66.6	3.0	69.4	67.6	1.73	39.990					
600.0	598.0	589.0	588.2	1.2	1.1	-114.34	-75.8	5.8	84.9	82.7	2.18	38.881	SF				

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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 (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	-179.31	-64.8	-0.8	64.8					
100.0	100.0	100.0	100.0	0.1	0.1	-179.31	-64.8	-0.8	64.8	64.5	0.27	240.947		
200.0	200.0	200.0	200.0	0.3	0.3	-179.31	-64.8	-0.8	64.8	64.1	0.62	104.819 CC, ES		
300.0	300.0	297.8	297.8	0.5	0.5	-89.39	-66.4	-0.4	66.4	65.5	0.96	68.910		
400.0	399.8	395.2	395.0	0.7	0.7	-94.18	-71.2	0.7	71.6	70.3	1.33	53.975		
500.0	499.3	491.5	491.0	0.9	0.9	-101.75	-79.2	2.4	81.6	79.9	1.73	47.104		
600.0	598.0	586.2	585.1	1.2	1.1	-109.92	-90.1	4.9	97.8	95.7	2.19	44.630 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 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							
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	-177.87	-84.0	-3.1	84.0					
100.0	100.0	100.0	100.0	0.1	0.1	-177.87	-84.0	-3.1	84.0	83.8	0.27	312.672		
200.0	200.0	200.0	200.0	0.3	0.3	-177.87	-84.0	-3.1	84.0	83.4	0.62	136.021		
300.0	300.0	300.0	300.0	0.5	0.5	-87.55	-84.0	-3.1	84.0	83.0	0.97	86.837		
302.4	302.3	302.3	302.3	0.5	0.5	-87.59	-84.0	-3.1	84.0	83.0	0.98	86.079 CC, ES		
400.0	399.8	395.6	395.6	0.7	0.7	-91.14	-86.3	-2.7	86.4	85.1	1.33	65.088		
500.0	499.3	490.2	489.9	0.9	0.9	-97.59	-93.3	-1.3	94.7	93.0	1.73	54.655 SF		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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) - 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										
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	-177.08	-92.1	-4.7	92.2								
100.0	100.0	100.0	100.0	0.1	0.1	-177.08	-92.1	-4.7	92.2	91.9	0.27	343.016					
200.0	200.0	200.0	200.0	0.3	0.3	-177.08	-92.1	-4.7	92.2	91.6	0.62	149.222					
238.7	238.7	238.7	238.7	0.4	0.4	-86.44	-92.1	-4.7	92.2	91.4	0.75	122.407	CC, ES				
300.0	300.0	297.7	297.7	0.5	0.5	-86.76	-92.7	-4.6	92.8	91.8	0.96	96.283					
400.0	399.8	392.8	392.6	0.7	0.7	-90.09	-97.3	-3.9	97.6	96.2	1.32	73.741	SF				



## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well 8508E-33 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>	8508E-33 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							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	-172.18	-91.1	-12.5	91.9								
100.0	100.0	100.0	100.0	0.1	0.1	-172.18	-91.1	-12.5	91.9	91.7	0.27	341.990					
200.0	200.0	200.0	200.0	0.3	0.3	-172.18	-91.1	-12.5	91.9	91.3	0.62	148.776 CC, ES					
300.0	300.0	296.5	296.5	0.5	0.5	-80.74	-92.6	-14.4	93.7	92.7	0.97	97.057					
400.0	399.8	392.8	392.5	0.7	0.7	-80.64	-97.2	-20.0	98.4	97.1	1.35	73.125 SF					

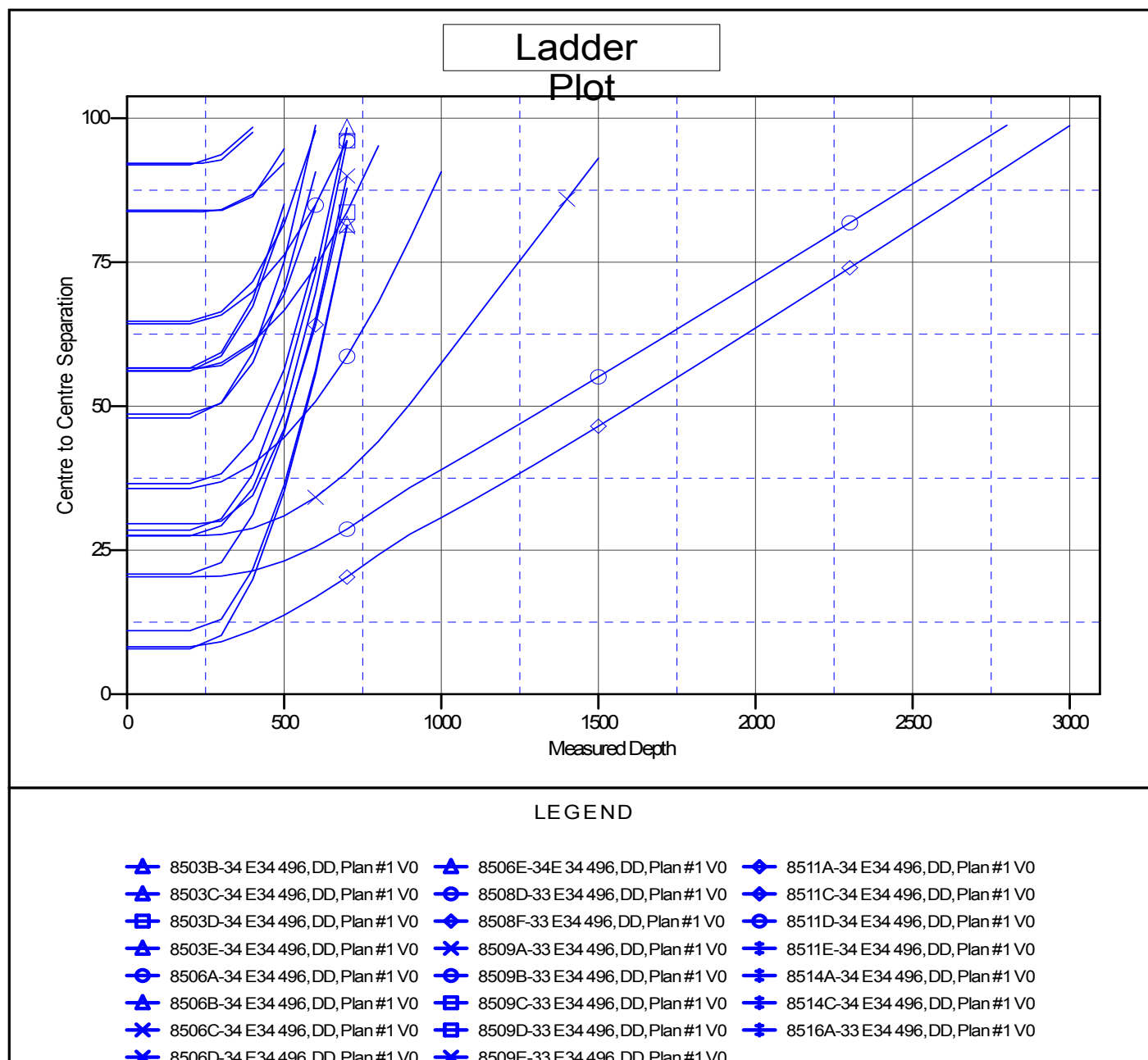
# Anticollision Report

**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** Story Gulch  
**Reference Site:** S33-T4S-R96W (E34 496)  
**Site Error:** 0.0ft  
**Reference Well:** 8508E-33 E34 496  
**Well Error:** 0.0ft  
**Reference Wellbore:** DD  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 8508E-33 E34 496  
**TVD Reference:** WELL @ 8324.0ft (Original Well Elev)  
**MD Reference:** WELL @ 8324.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** USA EDM 5000 Multi Users DB  
**Offset TVD Reference:** 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' 0.000 W °

Coordinates are relative to: 8508E-33 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