



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8511C-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>	8511C-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	8511C-34 E34 496					
Well Position	+N/-S	0.0 ft	Northing:	1,676,200.53 ft	Latitude:	39° 39' 35.460 N
	+E/-W	0.0 ft	Easting:	2,251,039.25 ft	Longitude:	108° 9' 38.130 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	160.35

<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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
613.7	8.27	159.36	612.3	-27.9	10.5	2.00	2.00	0.00	159.36	
7,232.0	8.27	159.36	7,161.7	-919.3	346.3	0.00	0.00	0.00	0.00	
7,645.8	0.00	0.00	7,574.0	-947.2	356.8	2.00	-2.00	0.00	180.00	E34 496 8511C-34 TC
7,690.3	0.22	236.41	7,618.5	-947.2	356.7	0.50	0.50	-277.52	236.41	
12,308.8	0.22	236.41	12,237.0	-957.2	341.8	0.00	0.00	0.00	0.00	E34 496 8511C-34 PE
12,458.8	0.22	236.41	12,387.0	-957.5	341.3	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>	8511C-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	KOP @ 200'
300.0	2.00	159.36	300.0	-1.6	0.6	1.7	2.00	2.00	
400.0	4.00	159.36	399.8	-6.5	2.5	7.0	2.00	2.00	
500.0	6.00	159.36	499.5	-14.7	5.5	15.7	2.00	2.00	
600.0	8.00	159.36	598.7	-26.1	9.8	27.9	2.00	2.00	
613.7	8.27	159.36	612.3	-27.9	10.5	29.8	2.00	2.00	EOB; Inc=8.27°
700.0	8.27	159.36	697.7	-39.5	14.9	42.2	0.00	0.00	
800.0	8.27	159.36	796.6	-53.0	20.0	56.6	0.00	0.00	
900.0	8.27	159.36	895.6	-66.5	25.0	71.0	0.00	0.00	
1,000.0	8.27	159.36	994.5	-79.9	30.1	85.4	0.00	0.00	
1,100.0	8.27	159.36	1,093.5	-93.4	35.2	99.8	0.00	0.00	
1,186.4	8.27	159.36	1,179.0	-105.0	39.6	112.2	0.00	0.00	A_GROOVE_TVD
1,200.0	8.27	159.36	1,192.5	-106.9	40.3	114.2	0.00	0.00	
1,300.0	8.27	159.36	1,291.4	-120.3	45.3	128.6	0.00	0.00	
1,342.0	8.27	159.36	1,333.0	-126.0	47.5	134.6	0.00	0.00	B_GROOVE_TVD
1,368.3	8.27	159.36	1,359.0	-129.5	48.8	138.4	0.00	0.00	B_GROOVE_BASE_TVD
1,400.0	8.27	159.36	1,390.4	-133.8	50.4	143.0	0.00	0.00	
1,500.0	8.27	159.36	1,489.3	-147.3	55.5	157.4	0.00	0.00	
1,600.0	8.27	159.36	1,588.3	-160.7	60.6	171.7	0.00	0.00	
1,700.0	8.27	159.36	1,687.3	-174.2	65.6	186.1	0.00	0.00	
1,800.0	8.27	159.36	1,786.2	-187.7	70.7	200.5	0.00	0.00	
1,900.0	8.27	159.36	1,885.2	-201.1	75.8	214.9	0.00	0.00	
2,000.0	8.27	159.36	1,984.1	-214.6	80.8	229.3	0.00	0.00	
2,100.0	8.27	159.36	2,083.1	-228.1	85.9	243.7	0.00	0.00	
2,200.0	8.27	159.36	2,182.0	-241.6	91.0	258.1	0.00	0.00	
2,288.9	8.27	159.36	2,270.0	-253.5	95.5	270.9	0.00	0.00	GARDEN_GULCH_TVD
2,300.0	8.27	159.36	2,281.0	-255.0	96.1	272.5	0.00	0.00	
2,400.0	8.27	159.36	2,380.0	-268.5	101.1	286.9	0.00	0.00	
2,500.0	8.27	159.36	2,478.9	-282.0	106.2	301.3	0.00	0.00	
2,600.0	8.27	159.36	2,577.9	-295.4	111.3	315.6	0.00	0.00	
2,700.0	8.27	159.36	2,676.8	-308.9	116.4	330.0	0.00	0.00	
2,800.0	8.27	159.36	2,775.8	-322.4	121.4	344.4	0.00	0.00	
2,900.0	8.27	159.36	2,874.8	-335.8	126.5	358.8	0.00	0.00	
3,000.0	8.27	159.36	2,973.7	-349.3	131.6	373.2	0.00	0.00	
3,100.0	8.27	159.36	3,072.7	-362.8	136.7	387.6	0.00	0.00	
3,200.0	8.27	159.36	3,171.6	-376.2	141.7	402.0	0.00	0.00	
3,300.0	8.27	159.36	3,270.6	-389.7	146.8	416.4	0.00	0.00	
3,341.8	8.27	159.36	3,312.0	-395.3	148.9	422.4	0.00	0.00	WASATCH_FM_TVD
3,400.0	8.27	159.36	3,369.6	-403.2	151.9	430.8	0.00	0.00	
3,500.0	8.27	159.36	3,468.5	-416.6	156.9	445.2	0.00	0.00	
3,600.0	8.27	159.36	3,567.5	-430.1	162.0	459.5	0.00	0.00	
3,700.0	8.27	159.36	3,666.4	-443.6	167.1	473.9	0.00	0.00	
3,800.0	8.27	159.36	3,765.4	-457.0	172.2	488.3	0.00	0.00	
3,900.0	8.27	159.36	3,864.3	-470.5	177.2	502.7	0.00	0.00	
4,000.0	8.27	159.36	3,963.3	-484.0	182.3	517.1	0.00	0.00	
4,100.0	8.27	159.36	4,062.3	-497.5	187.4	531.5	0.00	0.00	
4,200.0	8.27	159.36	4,161.2	-510.9	192.5	545.9	0.00	0.00	
4,300.0	8.27	159.36	4,260.2	-524.4	197.5	560.3	0.00	0.00	
4,400.0	8.27	159.36	4,359.1	-537.9	202.6	574.7	0.00	0.00	
4,500.0	8.27	159.36	4,458.1	-551.3	207.7	589.1	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>	8511C-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
4,600.0	8.27	159.36	4,557.1	-564.8	212.8	603.4	0.00	0.00	
4,700.0	8.27	159.36	4,656.0	-578.3	217.8	617.8	0.00	0.00	
4,800.0	8.27	159.36	4,755.0	-591.7	222.9	632.2	0.00	0.00	
4,900.0	8.27	159.36	4,853.9	-605.2	228.0	646.6	0.00	0.00	
5,000.0	8.27	159.36	4,952.9	-618.7	233.0	661.0	0.00	0.00	
5,100.0	8.27	159.36	5,051.9	-632.1	238.1	675.4	0.00	0.00	
5,200.0	8.27	159.36	5,150.8	-645.6	243.2	689.8	0.00	0.00	
5,300.0	8.27	159.36	5,249.8	-659.1	248.3	704.2	0.00	0.00	
5,400.0	8.27	159.36	5,348.7	-672.5	253.3	718.6	0.00	0.00	
5,492.2	8.27	159.36	5,440.0	-685.0	258.0	731.8	0.00	0.00	WASATCH_G_TVD
5,500.0	8.27	159.36	5,447.7	-686.0	258.4	733.0	0.00	0.00	
5,600.0	8.27	159.36	5,546.7	-699.5	263.5	747.3	0.00	0.00	
5,700.0	8.27	159.36	5,645.6	-712.9	268.6	761.7	0.00	0.00	
5,800.0	8.27	159.36	5,744.6	-726.4	273.6	776.1	0.00	0.00	
5,900.0	8.27	159.36	5,843.5	-739.9	278.7	790.5	0.00	0.00	
6,000.0	8.27	159.36	5,942.5	-753.4	283.8	804.9	0.00	0.00	
6,100.0	8.27	159.36	6,041.4	-766.8	288.9	819.3	0.00	0.00	
6,200.0	8.27	159.36	6,140.4	-780.3	293.9	833.7	0.00	0.00	
6,300.0	8.27	159.36	6,239.4	-793.8	299.0	848.1	0.00	0.00	
6,400.0	8.27	159.36	6,338.3	-807.2	304.1	862.5	0.00	0.00	
6,500.0	8.27	159.36	6,437.3	-820.7	309.1	876.9	0.00	0.00	
6,600.0	8.27	159.36	6,536.2	-834.2	314.2	891.3	0.00	0.00	
6,700.0	8.27	159.36	6,635.2	-847.6	319.3	905.6	0.00	0.00	
6,800.0	8.27	159.36	6,734.2	-861.1	324.4	920.0	0.00	0.00	
6,900.0	8.27	159.36	6,833.1	-874.6	329.4	934.4	0.00	0.00	
7,000.0	8.27	159.36	6,932.1	-888.0	334.5	948.8	0.00	0.00	
7,100.0	8.27	159.36	7,031.0	-901.5	339.6	963.2	0.00	0.00	
7,200.0	8.27	159.36	7,130.0	-915.0	344.7	977.6	0.00	0.00	
7,232.0	8.27	159.36	7,161.7	-919.3	346.3	982.2	0.00	0.00	Start Drop -2.00
7,300.0	6.92	159.36	7,229.1	-927.7	349.5	991.2	2.00	-2.00	
7,400.0	4.92	159.36	7,328.5	-937.3	353.1	1,001.5	2.00	-2.00	
7,500.0	2.92	159.36	7,428.3	-943.7	355.5	1,008.3	2.00	-2.00	
7,600.0	0.92	159.36	7,528.2	-946.9	356.7	1,011.7	2.00	-2.00	
7,645.8	0.00	0.00	7,574.0	-947.2	356.8	1,012.0	2.00	-2.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
7,690.3	0.22	236.41	7,618.5	-947.2	356.7	1,012.0	0.50	0.50	
7,700.0	0.22	236.41	7,628.2	-947.3	356.7	1,012.1	0.00	0.00	
7,800.0	0.22	236.41	7,728.2	-947.5	356.4	1,012.1	0.00	0.00	
7,900.0	0.22	236.41	7,828.2	-947.7	356.0	1,012.2	0.00	0.00	
8,000.0	0.22	236.41	7,928.2	-947.9	355.7	1,012.3	0.00	0.00	
8,100.0	0.22	236.41	8,028.2	-948.1	355.4	1,012.4	0.00	0.00	
8,200.0	0.22	236.41	8,128.2	-948.3	355.1	1,012.5	0.00	0.00	
8,300.0	0.22	236.41	8,228.2	-948.6	354.8	1,012.6	0.00	0.00	
8,400.0	0.22	236.41	8,328.2	-948.8	354.4	1,012.7	0.00	0.00	
8,500.0	0.22	236.41	8,428.2	-949.0	354.1	1,012.8	0.00	0.00	
8,600.0	0.22	236.41	8,528.2	-949.2	353.8	1,012.9	0.00	0.00	
8,700.0	0.22	236.41	8,628.2	-949.4	353.5	1,013.0	0.00	0.00	
8,800.0	0.22	236.41	8,728.2	-949.6	353.1	1,013.1	0.00	0.00	
8,900.0	0.22	236.41	8,828.2	-949.8	352.8	1,013.2	0.00	0.00	
9,000.0	0.22	236.41	8,928.2	-950.1	352.5	1,013.3	0.00	0.00	
9,100.0	0.22	236.41	9,028.2	-950.3	352.2	1,013.4	0.00	0.00	
9,200.0	0.22	236.41	9,128.2	-950.5	351.8	1,013.5	0.00	0.00	
9,300.0	0.22	236.41	9,228.2	-950.7	351.5	1,013.5	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>	8511C-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
9,400.0	0.22	236.41	9,328.2	-950.9	351.2	1,013.6	0.00	0.00	
9,500.0	0.22	236.41	9,428.2	-951.1	350.9	1,013.7	0.00	0.00	
9,600.0	0.22	236.41	9,528.2	-951.4	350.5	1,013.8	0.00	0.00	
9,700.0	0.22	236.41	9,628.2	-951.6	350.2	1,013.9	0.00	0.00	
9,800.0	0.22	236.41	9,728.2	-951.8	349.9	1,014.0	0.00	0.00	
9,900.0	0.22	236.41	9,828.2	-952.0	349.6	1,014.1	0.00	0.00	
10,000.0	0.22	236.41	9,928.2	-952.2	349.3	1,014.2	0.00	0.00	
10,100.0	0.22	236.41	10,028.2	-952.4	348.9	1,014.3	0.00	0.00	
10,200.0	0.22	236.41	10,128.2	-952.6	348.6	1,014.4	0.00	0.00	
10,300.0	0.22	236.41	10,228.2	-952.9	348.3	1,014.5	0.00	0.00	
10,400.0	0.22	236.41	10,328.2	-953.1	348.0	1,014.6	0.00	0.00	
10,500.0	0.22	236.41	10,428.2	-953.3	347.6	1,014.7	0.00	0.00	
10,600.0	0.22	236.41	10,528.2	-953.5	347.3	1,014.8	0.00	0.00	
10,700.0	0.22	236.41	10,628.2	-953.7	347.0	1,014.9	0.00	0.00	
10,800.0	0.22	236.41	10,728.2	-953.9	346.7	1,015.0	0.00	0.00	
10,900.0	0.22	236.41	10,828.2	-954.1	346.3	1,015.0	0.00	0.00	
10,907.8	0.22	236.41	10,836.0	-954.2	346.3	1,015.1	0.00	0.00	CAMEO_TVD
11,000.0	0.22	236.41	10,928.2	-954.4	346.0	1,015.1	0.00	0.00	
11,100.0	0.22	236.41	11,028.2	-954.6	345.7	1,015.2	0.00	0.00	
11,200.0	0.22	236.41	11,128.2	-954.8	345.4	1,015.3	0.00	0.00	
11,286.8	0.22	236.41	11,215.0	-955.0	345.1	1,015.4	0.00	0.00	ROLLINS_TVD
11,300.0	0.22	236.41	11,228.2	-955.0	345.0	1,015.4	0.00	0.00	
11,400.0	0.22	236.41	11,328.2	-955.2	344.7	1,015.5	0.00	0.00	
11,500.0	0.22	236.41	11,428.2	-955.4	344.4	1,015.6	0.00	0.00	
11,522.8	0.22	236.41	11,451.0	-955.5	344.3	1,015.6	0.00	0.00	COZZETTE_TVD
11,600.0	0.22	236.41	11,528.2	-955.7	344.1	1,015.7	0.00	0.00	
11,700.0	0.22	236.41	11,628.2	-955.9	343.7	1,015.8	0.00	0.00	
11,708.8	0.22	236.41	11,637.0	-955.9	343.7	1,015.8	0.00	0.00	CORCORAN_TVD
11,800.0	0.22	236.41	11,728.2	-956.1	343.4	1,015.9	0.00	0.00	
11,900.0	0.22	236.41	11,828.2	-956.3	343.1	1,016.0	0.00	0.00	
12,000.0	0.22	236.41	11,928.2	-956.5	342.8	1,016.1	0.00	0.00	
12,008.8	0.22	236.41	11,937.0	-956.5	342.7	1,016.1	0.00	0.00	UPPER_SEGO_TVD
12,100.0	0.22	236.41	12,028.2	-956.7	342.5	1,016.2	0.00	0.00	
12,158.8	0.22	236.41	12,087.0	-956.9	342.3	1,016.2	0.00	0.00	SEGO_BASE_TARGET_TVD
12,200.0	0.22	236.41	12,128.2	-956.9	342.1	1,016.3	0.00	0.00	
12,300.0	0.22	236.41	12,228.2	-957.2	341.8	1,016.4	0.00	0.00	
12,308.8	0.22	236.41	12,237.0	-957.2	341.8	1,016.4	0.00	0.00	Drillers TD @ 12,308' MD - E34 496 8511C-34 I
12,400.0	0.22	236.41	12,328.2	-957.4	341.5	1,016.5	0.00	0.00	
12,458.8	0.22	236.41	12,387.0	-957.5	341.3	1,016.5	0.00	0.00	Permit TD @ 12,458' MD

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well 8511C-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>	8511C-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 8511C-34 PBHI	0.00	0.00	12,237.0	-957.2	341.8	1,675,233.75	2,251,352.86	39° 39' 26.000 N	108° 9' 33.760 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
E34 496 8511C-34 TGT	0.00	0.00	7,574.0	-947.2	356.8	1,675,243.29	2,251,368.17	39° 39' 26.099 N	108° 9' 33.568 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,186.4	1,179.0	A_GROOVE_TVD				
1,342.0	1,333.0	B_GROOVE_TVD				
1,368.3	1,359.0	B_GROOVE_BASE_TVD				
2,288.9	2,270.0	GARDEN_GULCH_TVD				
3,341.8	3,312.0	WASATCH_FM_TVD				
5,492.2	5,440.0	WASATCH_G_TVD				
7,645.8	7,574.0	WILLIAMS_FORK_TVD				
10,907.8	10,836.0	CAMEO_TVD				
11,286.8	11,215.0	ROLLINS_TVD				
11,522.8	11,451.0	COZZETTE_TVD				
11,708.8	11,637.0	CORCORAN_TVD				
12,008.8	11,937.0	UPPER_SEGO_TVD				
12,158.8	12,087.0	SEGO_BASE_TARGET_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
613.7	612.3	-27.9	10.5	EOB; Inc=8.27°
7,232.0	7,161.7	-919.3	346.3	Start Drop -2.00
7,645.8	7,574.0	-947.2	356.8	EOD; Inc=0°
12,308.8	12,237.0	-947.2	356.7	Drillers TD @ 12,308' MD
12,458.8	12,387.0	-957.2	341.8	Permit TD @ 12,458' MD