



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8509B-33 E34 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8509B-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Story Gulch		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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	8509B-33 E34 496			
Well Position	+N/-S	0.0 ft	Northing:	1,676,201.77 ft
	+E/-W	0.0 ft	Easting:	2,251,031.47 ft
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft
			Ground Level:	8,301.0 ft

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

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	249.29

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
876.9	20.31	249.39	862.8	-41.8	-111.1	3.00	3.00	0.00	249.39	
7,199.2	20.31	249.39	6,792.2	-814.2	-2,164.7	0.00	0.00	0.00	0.00	
7,876.1	0.00	0.00	7,455.0	-856.0	-2,275.8	3.00	-3.00	0.00	180.00	E34 496 8509B-33 TC
7,920.7	0.22	236.19	7,499.7	-856.0	-2,275.9	0.50	0.50	-277.20	236.19	
12,515.1	0.22	236.19	12,094.0	-866.0	-2,290.8	0.00	0.00	0.00	0.00	E34 496 8509B-33 PE
12,665.1	0.22	236.19	12,244.0	-866.3	-2,291.2	0.00	0.00	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8509B-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	3.00	249.39	300.0	-0.9	-2.4	2.6	3.00	3.00	
400.0	6.00	249.39	399.6	-3.7	-9.8	10.5	3.00	3.00	
500.0	9.00	249.39	498.8	-8.3	-22.0	23.5	3.00	3.00	
600.0	12.00	249.39	597.1	-14.7	-39.1	41.7	3.00	3.00	
700.0	15.00	249.39	694.3	-22.9	-60.9	65.1	3.00	3.00	
800.0	18.00	249.39	790.2	-32.9	-87.5	93.5	3.00	3.00	
876.9	20.31	249.39	862.8	-41.8	-111.1	118.7	3.00	3.00	EOB; Inc=20.31°
900.0	20.31	249.39	884.5	-44.6	-118.6	126.7	0.00	0.00	
1,000.0	20.31	249.39	978.3	-56.8	-151.1	161.4	0.00	0.00	
1,100.0	20.31	249.39	1,072.1	-69.0	-183.6	196.1	0.00	0.00	
1,200.0	20.31	249.39	1,165.8	-81.3	-216.1	230.8	0.00	0.00	
1,201.2	20.31	249.39	1,167.0	-81.4	-216.5	231.3	0.00	0.00	A_GROOVE_TVD
1,300.0	20.31	249.39	1,259.6	-93.5	-248.5	265.5	0.00	0.00	
1,368.6	20.31	249.39	1,324.0	-101.9	-270.8	289.4	0.00	0.00	B_GROOVE_TVD
1,400.0	20.31	249.39	1,353.4	-105.7	-281.0	300.2	0.00	0.00	
1,406.0	20.31	249.39	1,359.0	-106.4	-283.0	302.3	0.00	0.00	B_GROOVE_BASE_TVD
1,500.0	20.31	249.39	1,447.2	-117.9	-313.5	334.9	0.00	0.00	
1,600.0	20.31	249.39	1,541.0	-130.1	-346.0	369.6	0.00	0.00	
1,700.0	20.31	249.39	1,634.8	-142.4	-378.5	404.3	0.00	0.00	
1,800.0	20.31	249.39	1,728.5	-154.6	-410.9	439.1	0.00	0.00	
1,900.0	20.31	249.39	1,822.3	-166.8	-443.4	473.8	0.00	0.00	
2,000.0	20.31	249.39	1,916.1	-179.0	-475.9	508.5	0.00	0.00	
2,100.0	20.31	249.39	2,009.9	-191.2	-508.4	543.2	0.00	0.00	
2,200.0	20.31	249.39	2,103.7	-203.4	-540.9	577.9	0.00	0.00	
2,300.0	20.31	249.39	2,197.5	-215.7	-573.4	612.6	0.00	0.00	
2,341.1	20.31	249.39	2,236.0	-220.7	-586.7	626.8	0.00	0.00	GARDEN_GULCH_TVD
2,400.0	20.31	249.39	2,291.3	-227.9	-605.8	647.3	0.00	0.00	
2,500.0	20.31	249.39	2,385.0	-240.1	-638.3	682.0	0.00	0.00	
2,600.0	20.31	249.39	2,478.8	-252.3	-670.8	716.7	0.00	0.00	
2,700.0	20.31	249.39	2,572.6	-264.5	-703.3	751.4	0.00	0.00	
2,800.0	20.31	249.39	2,666.4	-276.7	-735.8	786.1	0.00	0.00	
2,900.0	20.31	249.39	2,760.2	-289.0	-768.2	820.8	0.00	0.00	
3,000.0	20.31	249.39	2,854.0	-301.2	-800.7	855.5	0.00	0.00	
3,100.0	20.31	249.39	2,947.8	-313.4	-833.2	890.2	0.00	0.00	
3,200.0	20.31	249.39	3,041.5	-325.6	-865.7	924.9	0.00	0.00	
3,300.0	20.31	249.39	3,135.3	-337.8	-898.2	959.6	0.00	0.00	
3,400.0	20.31	249.39	3,229.1	-350.0	-930.7	994.3	0.00	0.00	
3,430.8	20.31	249.39	3,258.0	-353.8	-940.7	1,005.0	0.00	0.00	WASATCH_FM_TVD
3,500.0	20.31	249.39	3,322.9	-362.3	-963.1	1,029.0	0.00	0.00	
3,600.0	20.31	249.39	3,416.7	-374.5	-995.6	1,063.7	0.00	0.00	
3,700.0	20.31	249.39	3,510.5	-386.7	-1,028.1	1,098.4	0.00	0.00	
3,800.0	20.31	249.39	3,604.3	-398.9	-1,060.6	1,133.1	0.00	0.00	
3,900.0	20.31	249.39	3,698.0	-411.1	-1,093.1	1,167.8	0.00	0.00	
4,000.0	20.31	249.39	3,791.8	-423.4	-1,125.5	1,202.5	0.00	0.00	
4,100.0	20.31	249.39	3,885.6	-435.6	-1,158.0	1,237.2	0.00	0.00	
4,200.0	20.31	249.39	3,979.4	-447.8	-1,190.5	1,271.9	0.00	0.00	
4,300.0	20.31	249.39	4,073.2	-460.0	-1,223.0	1,306.6	0.00	0.00	
4,400.0	20.31	249.39	4,167.0	-472.2	-1,255.5	1,341.3	0.00	0.00	
4,500.0	20.31	249.39	4,260.7	-484.4	-1,288.0	1,376.0	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8509B-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	20.31	249.39	4,354.5	-496.7	-1,320.4	1,410.7	0.00	0.00	
4,700.0	20.31	249.39	4,448.3	-508.9	-1,352.9	1,445.5	0.00	0.00	
4,800.0	20.31	249.39	4,542.1	-521.1	-1,385.4	1,480.2	0.00	0.00	
4,900.0	20.31	249.39	4,635.9	-533.3	-1,417.9	1,514.9	0.00	0.00	
5,000.0	20.31	249.39	4,729.7	-545.5	-1,450.4	1,549.6	0.00	0.00	
5,100.0	20.31	249.39	4,823.5	-557.7	-1,482.8	1,584.3	0.00	0.00	
5,200.0	20.31	249.39	4,917.2	-570.0	-1,515.3	1,619.0	0.00	0.00	
5,300.0	20.31	249.39	5,011.0	-582.2	-1,547.8	1,653.7	0.00	0.00	
5,400.0	20.31	249.39	5,104.8	-594.4	-1,580.3	1,688.4	0.00	0.00	
5,500.0	20.31	249.39	5,198.6	-606.6	-1,612.8	1,723.1	0.00	0.00	
5,600.0	20.31	249.39	5,292.4	-618.8	-1,645.3	1,757.8	0.00	0.00	
5,659.3	20.31	249.39	5,348.0	-626.1	-1,664.5	1,778.4	0.00	0.00	WASATCH_G_TVD
5,700.0	20.31	249.39	5,386.2	-631.0	-1,677.7	1,792.5	0.00	0.00	
5,800.0	20.31	249.39	5,480.0	-643.3	-1,710.2	1,827.2	0.00	0.00	
5,900.0	20.31	249.39	5,573.7	-655.5	-1,742.7	1,861.9	0.00	0.00	
6,000.0	20.31	249.39	5,667.5	-667.7	-1,775.2	1,896.6	0.00	0.00	
6,100.0	20.31	249.39	5,761.3	-679.9	-1,807.7	1,931.3	0.00	0.00	
6,200.0	20.31	249.39	5,855.1	-692.1	-1,840.1	1,966.0	0.00	0.00	
6,300.0	20.31	249.39	5,948.9	-704.4	-1,872.6	2,000.7	0.00	0.00	
6,400.0	20.31	249.39	6,042.7	-716.6	-1,905.1	2,035.4	0.00	0.00	
6,500.0	20.31	249.39	6,136.5	-728.8	-1,937.6	2,070.1	0.00	0.00	
6,600.0	20.31	249.39	6,230.2	-741.0	-1,970.1	2,104.8	0.00	0.00	
6,700.0	20.31	249.39	6,324.0	-753.2	-2,002.6	2,139.5	0.00	0.00	
6,800.0	20.31	249.39	6,417.8	-765.4	-2,035.0	2,174.2	0.00	0.00	
6,900.0	20.31	249.39	6,511.6	-777.7	-2,067.5	2,208.9	0.00	0.00	
7,000.0	20.31	249.39	6,605.4	-789.9	-2,100.0	2,243.6	0.00	0.00	
7,100.0	20.31	249.39	6,699.2	-802.1	-2,132.5	2,278.3	0.00	0.00	
7,199.2	20.31	249.39	6,792.2	-814.2	-2,164.7	2,312.8	0.00	0.00	Start Drop -3.00
7,200.0	20.28	249.39	6,793.0	-814.3	-2,165.0	2,313.0	3.00	-3.00	
7,300.0	17.28	249.39	6,887.6	-825.6	-2,195.1	2,345.2	3.00	-3.00	
7,400.0	14.28	249.39	6,983.8	-835.2	-2,220.5	2,372.4	3.00	-3.00	
7,500.0	11.28	249.39	7,081.3	-843.0	-2,241.3	2,394.5	3.00	-3.00	
7,600.0	8.28	249.39	7,179.9	-849.0	-2,257.2	2,411.5	3.00	-3.00	
7,700.0	5.28	249.39	7,279.2	-853.1	-2,268.2	2,423.3	3.00	-3.00	
7,800.0	2.28	249.39	7,378.9	-855.5	-2,274.4	2,429.9	3.00	-3.00	
7,876.1	0.00	0.00	7,455.0	-856.0	-2,275.8	2,431.5	3.00	-3.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
7,900.0	0.12	236.19	7,478.9	-856.0	-2,275.8	2,431.5	0.50	0.50	
7,920.7	0.22	236.19	7,499.7	-856.0	-2,275.9	2,431.5	0.50	0.50	
8,000.0	0.22	236.19	7,578.9	-856.2	-2,276.1	2,431.8	0.00	0.00	
8,100.0	0.22	236.19	7,678.9	-856.4	-2,276.5	2,432.2	0.00	0.00	
8,200.0	0.22	236.19	7,778.9	-856.7	-2,276.8	2,432.6	0.00	0.00	
8,300.0	0.22	236.19	7,878.9	-856.9	-2,277.1	2,433.0	0.00	0.00	
8,400.0	0.22	236.19	7,978.9	-857.1	-2,277.4	2,433.4	0.00	0.00	
8,500.0	0.22	236.19	8,078.9	-857.3	-2,277.7	2,433.7	0.00	0.00	
8,600.0	0.22	236.19	8,178.9	-857.5	-2,278.1	2,434.1	0.00	0.00	
8,700.0	0.22	236.19	8,278.9	-857.7	-2,278.4	2,434.5	0.00	0.00	
8,800.0	0.22	236.19	8,378.9	-858.0	-2,278.7	2,434.9	0.00	0.00	
8,900.0	0.22	236.19	8,478.9	-858.2	-2,279.0	2,435.3	0.00	0.00	
9,000.0	0.22	236.19	8,578.9	-858.4	-2,279.4	2,435.6	0.00	0.00	
9,100.0	0.22	236.19	8,678.9	-858.6	-2,279.7	2,436.0	0.00	0.00	
9,200.0	0.22	236.19	8,778.9	-858.8	-2,280.0	2,436.4	0.00	0.00	
9,300.0	0.22	236.19	8,878.9	-859.0	-2,280.3	2,436.8	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8509B-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	236.19	8,978.9	-859.3	-2,280.7	2,437.2	0.00	0.00	
9,500.0	0.22	236.19	9,078.9	-859.5	-2,281.0	2,437.5	0.00	0.00	
9,600.0	0.22	236.19	9,178.9	-859.7	-2,281.3	2,437.9	0.00	0.00	
9,700.0	0.22	236.19	9,278.9	-859.9	-2,281.6	2,438.3	0.00	0.00	
9,800.0	0.22	236.19	9,378.9	-860.1	-2,282.0	2,438.7	0.00	0.00	
9,900.0	0.22	236.19	9,478.9	-860.3	-2,282.3	2,439.1	0.00	0.00	
10,000.0	0.22	236.19	9,578.9	-860.6	-2,282.6	2,439.4	0.00	0.00	
10,100.0	0.22	236.19	9,678.9	-860.8	-2,282.9	2,439.8	0.00	0.00	
10,200.0	0.22	236.19	9,778.9	-861.0	-2,283.3	2,440.2	0.00	0.00	
10,300.0	0.22	236.19	9,878.9	-861.2	-2,283.6	2,440.6	0.00	0.00	
10,400.0	0.22	236.19	9,978.9	-861.4	-2,283.9	2,441.0	0.00	0.00	
10,500.0	0.22	236.19	10,078.9	-861.6	-2,284.2	2,441.3	0.00	0.00	
10,600.0	0.22	236.19	10,178.9	-861.9	-2,284.5	2,441.7	0.00	0.00	
10,700.0	0.22	236.19	10,278.9	-862.1	-2,284.9	2,442.1	0.00	0.00	
10,800.0	0.22	236.19	10,378.9	-862.3	-2,285.2	2,442.5	0.00	0.00	
10,900.0	0.22	236.19	10,478.9	-862.5	-2,285.5	2,442.9	0.00	0.00	
10,979.1	0.22	236.19	10,558.0	-862.7	-2,285.8	2,443.2	0.00	0.00	CAMEO_TVD
11,000.0	0.22	236.19	10,578.9	-862.7	-2,285.8	2,443.2	0.00	0.00	
11,100.0	0.22	236.19	10,678.9	-862.9	-2,286.2	2,443.6	0.00	0.00	
11,200.0	0.22	236.19	10,778.9	-863.2	-2,286.5	2,444.0	0.00	0.00	
11,300.0	0.22	236.19	10,878.9	-863.4	-2,286.8	2,444.4	0.00	0.00	
11,400.0	0.22	236.19	10,978.9	-863.6	-2,287.1	2,444.7	0.00	0.00	
11,462.1	0.22	236.19	11,041.0	-863.7	-2,287.3	2,445.0	0.00	0.00	ROLLINS_TVD
11,500.0	0.22	236.19	11,078.9	-863.8	-2,287.5	2,445.1	0.00	0.00	
11,600.0	0.22	236.19	11,178.9	-864.0	-2,287.8	2,445.5	0.00	0.00	
11,700.0	0.22	236.19	11,278.9	-864.2	-2,288.1	2,445.9	0.00	0.00	
11,724.1	0.22	236.19	11,303.0	-864.3	-2,288.2	2,446.0	0.00	0.00	COZZETTE_TVD
11,800.0	0.22	236.19	11,378.9	-864.5	-2,288.4	2,446.3	0.00	0.00	
11,900.0	0.22	236.19	11,478.9	-864.7	-2,288.8	2,446.6	0.00	0.00	
11,914.1	0.22	236.19	11,493.0	-864.7	-2,288.8	2,446.7	0.00	0.00	CORCORAN_TVD
12,000.0	0.22	236.19	11,578.9	-864.9	-2,289.1	2,447.0	0.00	0.00	
12,100.0	0.22	236.19	11,678.9	-865.1	-2,289.4	2,447.4	0.00	0.00	
12,200.0	0.22	236.19	11,778.9	-865.3	-2,289.7	2,447.8	0.00	0.00	
12,215.1	0.22	236.19	11,794.0	-865.4	-2,289.8	2,447.8	0.00	0.00	UPPER_SEGO_TVD
12,300.0	0.22	236.19	11,878.9	-865.5	-2,290.1	2,448.2	0.00	0.00	
12,365.1	0.22	236.19	11,944.0	-865.7	-2,290.3	2,448.4	0.00	0.00	SEGO_BASE_TARGET_TVD
12,400.0	0.22	236.19	11,978.9	-865.8	-2,290.4	2,448.5	0.00	0.00	
12,500.0	0.22	236.19	12,078.9	-866.0	-2,290.7	2,448.9	0.00	0.00	
12,515.1	0.22	236.19	12,094.0	-866.0	-2,290.8	2,449.0	0.00	0.00	Drillers TD @ 12,515' MD - E34 496 8509B-33 I
12,600.0	0.22	236.19	12,178.9	-866.2	-2,291.0	2,449.3	0.00	0.00	
12,665.1	0.22	236.19	12,244.0	-866.3	-2,291.2	2,449.6	0.00	0.00	Permit TD @ 12,665' MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8509B-33 E34 496
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8324.0ft (Original Well Elev)
Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
Site:	S33-T4S-R96W (E34 496)	North Reference:	True
Well:	8509B-33 E34 496	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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 8509B-33 PBH - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	12,094.0	-866.0	-2,290.8	1,675,403.21	2,248,716.34	39° 39' 26.910 N	108° 10' 7.520 W
E34 496 8509B-33 TGT - plan hits target center - Point	0.00	0.00	7,455.0	-856.0	-2,275.8	1,675,412.78	2,248,731.58	39° 39' 27.009 N	108° 10' 7.329 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,201.2	1,167.0	A_GROOVE_TVD				
1,368.6	1,324.0	B_GROOVE_TVD				
1,406.0	1,359.0	B_GROOVE_BASE_TVD				
2,341.1	2,236.0	GARDEN_GULCH_TVD				
3,430.8	3,258.0	WASATCH_FM_TVD				
5,659.3	5,348.0	WASATCH_G_TVD				
7,876.1	7,455.0	WILLIAMS_FORK_TVD				
10,979.1	10,558.0	CAMEO_TVD				
11,462.1	11,041.0	ROLLINS_TVD				
11,724.1	11,303.0	COZZETTE_TVD				
11,914.1	11,493.0	CORCORAN_TVD				
12,215.1	11,794.0	UPPER_SEGO_TVD				
12,365.1	11,944.0	SEGO_BASE_TARGET_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
876.9	862.8	-41.8	-111.1	EOB; Inc=20.31°
7,199.2	6,792.2	-814.2	-2,164.7	Start Drop -3.00
7,876.1	7,455.0	-856.0	-2,275.8	EOD; Inc=0°
12,515.1	12,094.0	-856.0	-2,275.9	Drillers TD @ 12,515' MD
12,665.1	12,244.0	-866.0	-2,290.8	Permit TD @ 12,665' MD