



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8508F-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:	8508F-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	8508F-33 E34 496			
Well Position	+N/-S	0.0 ft	Northing:	1,676,228.98 ft
	+E/-W	0.0 ft	Easting:	2,251,035.39 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	262.69

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	
834.0	19.02	262.89	822.4	-12.9	-103.5	3.00	3.00	0.00	262.89	
7,238.8	19.02	262.89	6,877.6	-271.4	-2,174.6	0.00	0.00	0.00	0.00	
7,872.8	0.00	0.00	7,500.0	-284.3	-2,278.0	3.00	-3.00	0.00	180.00	E34 496 8508F-33 TC
7,917.8	0.22	236.28	7,545.0	-284.4	-2,278.1	0.50	0.50	-275.10	236.28	
12,492.8	0.22	236.28	12,120.0	-294.3	-2,293.0	0.00	0.00	0.00	0.00	E34 496 8508F-33 PE
12,642.8	0.22	236.28	12,270.0	-294.7	-2,293.5	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:	8508F-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	262.89	300.0	-0.3	-2.6	2.6	3.00	3.00	
400.0	6.00	262.89	399.6	-1.3	-10.4	10.5	3.00	3.00	
500.0	9.00	262.89	498.8	-2.9	-23.3	23.5	3.00	3.00	
600.0	12.00	262.89	597.1	-5.2	-41.4	41.7	3.00	3.00	
700.0	15.00	262.89	694.3	-8.1	-64.6	65.1	3.00	3.00	
800.0	18.00	262.89	790.2	-11.6	-92.8	93.5	3.00	3.00	
834.0	19.02	262.89	822.4	-12.9	-103.5	104.3	3.00	3.00	EOB; Inc=19°
900.0	19.02	262.89	884.8	-15.6	-124.8	125.8	0.00	0.00	
1,000.0	19.02	262.89	979.4	-19.6	-157.1	158.4	0.00	0.00	
1,100.0	19.02	262.89	1,073.9	-23.6	-189.5	191.0	0.00	0.00	
1,200.0	19.02	262.89	1,168.4	-27.7	-221.8	223.5	0.00	0.00	
1,202.7	19.02	262.89	1,171.0	-27.8	-222.7	224.4	0.00	0.00	A_GROOVE_TVD
1,300.0	19.02	262.89	1,263.0	-31.7	-254.2	256.1	0.00	0.00	
1,369.8	19.02	262.89	1,329.0	-34.5	-276.7	278.9	0.00	0.00	B_GROOVE_TVD
1,400.0	19.02	262.89	1,357.5	-35.8	-286.5	288.7	0.00	0.00	
1,415.3	19.02	262.89	1,372.0	-36.4	-291.4	293.7	0.00	0.00	B_GROOVE_BASE_TVD
1,500.0	19.02	262.89	1,452.1	-39.8	-318.8	321.3	0.00	0.00	
1,600.0	19.02	262.89	1,546.6	-43.8	-351.2	353.9	0.00	0.00	
1,700.0	19.02	262.89	1,641.1	-47.9	-383.5	386.5	0.00	0.00	
1,800.0	19.02	262.89	1,735.7	-51.9	-415.8	419.1	0.00	0.00	
1,900.0	19.02	262.89	1,830.2	-55.9	-448.2	451.7	0.00	0.00	
2,000.0	19.02	262.89	1,924.8	-60.0	-480.5	484.2	0.00	0.00	
2,100.0	19.02	262.89	2,019.3	-64.0	-512.9	516.8	0.00	0.00	
2,200.0	19.02	262.89	2,113.9	-68.0	-545.2	549.4	0.00	0.00	
2,300.0	19.02	262.89	2,208.4	-72.1	-577.5	582.0	0.00	0.00	
2,345.1	19.02	262.89	2,251.0	-73.9	-592.1	596.7	0.00	0.00	GARDEN_GULCH_TVD
2,400.0	19.02	262.89	2,302.9	-76.1	-609.9	614.6	0.00	0.00	
2,500.0	19.02	262.89	2,397.5	-80.1	-642.2	647.2	0.00	0.00	
2,600.0	19.02	262.89	2,492.0	-84.2	-674.5	679.8	0.00	0.00	
2,700.0	19.02	262.89	2,586.6	-88.2	-706.9	712.4	0.00	0.00	
2,800.0	19.02	262.89	2,681.1	-92.3	-739.2	744.9	0.00	0.00	
2,900.0	19.02	262.89	2,775.6	-96.3	-771.5	777.5	0.00	0.00	
3,000.0	19.02	262.89	2,870.2	-100.3	-803.9	810.1	0.00	0.00	
3,100.0	19.02	262.89	2,964.7	-104.4	-836.2	842.7	0.00	0.00	
3,200.0	19.02	262.89	3,059.3	-108.4	-868.6	875.3	0.00	0.00	
3,300.0	19.02	262.89	3,153.8	-112.4	-900.9	907.9	0.00	0.00	
3,400.0	19.02	262.89	3,248.3	-116.5	-933.2	940.5	0.00	0.00	
3,415.5	19.02	262.89	3,263.0	-117.1	-938.2	945.5	0.00	0.00	WASATCH_FM_TVD
3,500.0	19.02	262.89	3,342.9	-120.5	-965.6	973.1	0.00	0.00	
3,600.0	19.02	262.89	3,437.4	-124.5	-997.9	1,005.6	0.00	0.00	
3,700.0	19.02	262.89	3,532.0	-128.6	-1,030.2	1,038.2	0.00	0.00	
3,800.0	19.02	262.89	3,626.5	-132.6	-1,062.6	1,070.8	0.00	0.00	
3,900.0	19.02	262.89	3,721.1	-136.7	-1,094.9	1,103.4	0.00	0.00	
4,000.0	19.02	262.89	3,815.6	-140.7	-1,127.2	1,136.0	0.00	0.00	
4,100.0	19.02	262.89	3,910.1	-144.7	-1,159.6	1,168.6	0.00	0.00	
4,200.0	19.02	262.89	4,004.7	-148.8	-1,191.9	1,201.2	0.00	0.00	
4,300.0	19.02	262.89	4,099.2	-152.8	-1,224.3	1,233.8	0.00	0.00	
4,400.0	19.02	262.89	4,193.8	-156.8	-1,256.6	1,266.3	0.00	0.00	
4,500.0	19.02	262.89	4,288.3	-160.9	-1,288.9	1,298.9	0.00	0.00	

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Well:	8508F-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	19.02	262.89	4,382.8	-164.9	-1,321.3	1,331.5	0.00	0.00	
4,700.0	19.02	262.89	4,477.4	-168.9	-1,353.6	1,364.1	0.00	0.00	
4,800.0	19.02	262.89	4,571.9	-173.0	-1,385.9	1,396.7	0.00	0.00	
4,900.0	19.02	262.89	4,666.5	-177.0	-1,418.3	1,429.3	0.00	0.00	
5,000.0	19.02	262.89	4,761.0	-181.0	-1,450.6	1,461.9	0.00	0.00	
5,100.0	19.02	262.89	4,855.5	-185.1	-1,483.0	1,494.5	0.00	0.00	
5,200.0	19.02	262.89	4,950.1	-189.1	-1,515.3	1,527.0	0.00	0.00	
5,300.0	19.02	262.89	5,044.6	-193.2	-1,547.6	1,559.6	0.00	0.00	
5,400.0	19.02	262.89	5,139.2	-197.2	-1,580.0	1,592.2	0.00	0.00	
5,500.0	19.02	262.89	5,233.7	-201.2	-1,612.3	1,624.8	0.00	0.00	
5,600.0	19.02	262.89	5,328.3	-205.3	-1,644.6	1,657.4	0.00	0.00	
5,639.9	19.02	262.89	5,366.0	-206.9	-1,657.5	1,670.4	0.00	0.00	WASATCH_G_TVD
5,700.0	19.02	262.89	5,422.8	-209.3	-1,677.0	1,690.0	0.00	0.00	
5,800.0	19.02	262.89	5,517.3	-213.3	-1,709.3	1,722.6	0.00	0.00	
5,900.0	19.02	262.89	5,611.9	-217.4	-1,741.6	1,755.2	0.00	0.00	
6,000.0	19.02	262.89	5,706.4	-221.4	-1,774.0	1,787.7	0.00	0.00	
6,100.0	19.02	262.89	5,801.0	-225.4	-1,806.3	1,820.3	0.00	0.00	
6,200.0	19.02	262.89	5,895.5	-229.5	-1,838.7	1,852.9	0.00	0.00	
6,300.0	19.02	262.89	5,990.0	-233.5	-1,871.0	1,885.5	0.00	0.00	
6,400.0	19.02	262.89	6,084.6	-237.5	-1,903.3	1,918.1	0.00	0.00	
6,500.0	19.02	262.89	6,179.1	-241.6	-1,935.7	1,950.7	0.00	0.00	
6,600.0	19.02	262.89	6,273.7	-245.6	-1,968.0	1,983.3	0.00	0.00	
6,700.0	19.02	262.89	6,368.2	-249.7	-2,000.3	2,015.9	0.00	0.00	
6,800.0	19.02	262.89	6,462.7	-253.7	-2,032.7	2,048.4	0.00	0.00	
6,900.0	19.02	262.89	6,557.3	-257.7	-2,065.0	2,081.0	0.00	0.00	
7,000.0	19.02	262.89	6,651.8	-261.8	-2,097.4	2,113.6	0.00	0.00	
7,100.0	19.02	262.89	6,746.4	-265.8	-2,129.7	2,146.2	0.00	0.00	
7,200.0	19.02	262.89	6,840.9	-269.8	-2,162.0	2,178.8	0.00	0.00	
7,238.8	19.02	262.89	6,877.6	-271.4	-2,174.6	2,191.4	0.00	0.00	Start Drop -3.00
7,300.0	17.18	262.89	6,935.8	-273.8	-2,193.4	2,210.4	3.00	-3.00	
7,400.0	14.18	262.89	7,032.0	-277.1	-2,220.3	2,237.5	3.00	-3.00	
7,500.0	11.18	262.89	7,129.6	-279.8	-2,242.0	2,259.4	3.00	-3.00	
7,600.0	8.18	262.89	7,228.1	-281.9	-2,258.7	2,276.2	3.00	-3.00	
7,700.0	5.18	262.89	7,327.5	-283.3	-2,270.3	2,287.9	3.00	-3.00	
7,800.0	2.18	262.89	7,427.2	-284.1	-2,276.7	2,294.3	3.00	-3.00	
7,872.8	0.00	0.00	7,500.0	-284.3	-2,278.0	2,295.7	3.00	-3.00	EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496
7,900.0	0.14	236.28	7,527.2	-284.3	-2,278.1	2,295.7	0.50	0.50	
7,917.8	0.22	236.28	7,545.0	-284.4	-2,278.1	2,295.8	0.50	0.50	
8,000.0	0.22	236.28	7,627.2	-284.5	-2,278.4	2,296.1	0.00	0.00	
8,100.0	0.22	236.28	7,727.2	-284.8	-2,278.7	2,296.4	0.00	0.00	
8,200.0	0.22	236.28	7,827.2	-285.0	-2,279.0	2,296.8	0.00	0.00	
8,300.0	0.22	236.28	7,927.2	-285.2	-2,279.4	2,297.1	0.00	0.00	
8,400.0	0.22	236.28	8,027.2	-285.4	-2,279.7	2,297.5	0.00	0.00	
8,500.0	0.22	236.28	8,127.2	-285.6	-2,280.0	2,297.8	0.00	0.00	
8,600.0	0.22	236.28	8,227.2	-285.8	-2,280.3	2,298.2	0.00	0.00	
8,700.0	0.22	236.28	8,327.2	-286.1	-2,280.7	2,298.5	0.00	0.00	
8,800.0	0.22	236.28	8,427.2	-286.3	-2,281.0	2,298.9	0.00	0.00	
8,900.0	0.22	236.28	8,527.2	-286.5	-2,281.3	2,299.2	0.00	0.00	
9,000.0	0.22	236.28	8,627.2	-286.7	-2,281.6	2,299.6	0.00	0.00	
9,100.0	0.22	236.28	8,727.2	-286.9	-2,282.0	2,299.9	0.00	0.00	
9,200.0	0.22	236.28	8,827.2	-287.2	-2,282.3	2,300.3	0.00	0.00	
9,300.0	0.22	236.28	8,927.2	-287.4	-2,282.6	2,300.6	0.00	0.00	

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Project:	Story Gulch	MD Reference:	WELL @ 8324.0ft (Original Well Elev)
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Well:	8508F-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	236.28	9,027.2	-287.6	-2,282.9	2,301.0	0.00	0.00	
9,500.0	0.22	236.28	9,127.2	-287.8	-2,283.3	2,301.3	0.00	0.00	
9,600.0	0.22	236.28	9,227.2	-288.0	-2,283.6	2,301.7	0.00	0.00	
9,700.0	0.22	236.28	9,327.2	-288.2	-2,283.9	2,302.0	0.00	0.00	
9,800.0	0.22	236.28	9,427.2	-288.5	-2,284.3	2,302.4	0.00	0.00	
9,900.0	0.22	236.28	9,527.2	-288.7	-2,284.6	2,302.7	0.00	0.00	
10,000.0	0.22	236.28	9,627.2	-288.9	-2,284.9	2,303.1	0.00	0.00	
10,100.0	0.22	236.28	9,727.2	-289.1	-2,285.2	2,303.4	0.00	0.00	
10,200.0	0.22	236.28	9,827.2	-289.3	-2,285.6	2,303.8	0.00	0.00	
10,300.0	0.22	236.28	9,927.2	-289.5	-2,285.9	2,304.1	0.00	0.00	
10,400.0	0.22	236.28	10,027.2	-289.8	-2,286.2	2,304.5	0.00	0.00	
10,500.0	0.22	236.28	10,127.2	-290.0	-2,286.5	2,304.9	0.00	0.00	
10,600.0	0.22	236.28	10,227.2	-290.2	-2,286.9	2,305.2	0.00	0.00	
10,700.0	0.22	236.28	10,327.2	-290.4	-2,287.2	2,305.6	0.00	0.00	
10,800.0	0.22	236.28	10,427.2	-290.6	-2,287.5	2,305.9	0.00	0.00	
10,900.0	0.22	236.28	10,527.2	-290.9	-2,287.8	2,306.3	0.00	0.00	
10,933.8	0.22	236.28	10,561.0	-290.9	-2,288.0	2,306.4	0.00	0.00	CAMEO_TVD
11,000.0	0.22	236.28	10,627.2	-291.1	-2,288.2	2,306.6	0.00	0.00	
11,100.0	0.22	236.28	10,727.2	-291.3	-2,288.5	2,307.0	0.00	0.00	
11,200.0	0.22	236.28	10,827.2	-291.5	-2,288.8	2,307.3	0.00	0.00	
11,300.0	0.22	236.28	10,927.2	-291.7	-2,289.2	2,307.7	0.00	0.00	
11,400.0	0.22	236.28	11,027.2	-291.9	-2,289.5	2,308.0	0.00	0.00	
11,445.8	0.22	236.28	11,073.0	-292.0	-2,289.6	2,308.2	0.00	0.00	ROLLINS_TVD
11,500.0	0.22	236.28	11,127.2	-292.2	-2,289.8	2,308.4	0.00	0.00	
11,600.0	0.22	236.28	11,227.2	-292.4	-2,290.1	2,308.7	0.00	0.00	
11,698.8	0.22	236.28	11,326.0	-292.6	-2,290.5	2,309.1	0.00	0.00	COZZETTE_TVD
11,700.0	0.22	236.28	11,327.2	-292.6	-2,290.5	2,309.1	0.00	0.00	
11,800.0	0.22	236.28	11,427.2	-292.8	-2,290.8	2,309.4	0.00	0.00	
11,890.8	0.22	236.28	11,518.0	-293.0	-2,291.1	2,309.7	0.00	0.00	CORCORAN_TVD
11,900.0	0.22	236.28	11,527.2	-293.0	-2,291.1	2,309.8	0.00	0.00	
12,000.0	0.22	236.28	11,627.2	-293.3	-2,291.4	2,310.1	0.00	0.00	
12,100.0	0.22	236.28	11,727.2	-293.5	-2,291.8	2,310.5	0.00	0.00	
12,192.8	0.22	236.28	11,820.0	-293.7	-2,292.1	2,310.8	0.00	0.00	UPPER_SEGO_TVD
12,200.0	0.22	236.28	11,827.2	-293.7	-2,292.1	2,310.8	0.00	0.00	
12,300.0	0.22	236.28	11,927.2	-293.9	-2,292.4	2,311.2	0.00	0.00	
12,342.8	0.22	236.28	11,970.0	-294.0	-2,292.6	2,311.3	0.00	0.00	SEGO_BASE_TARGET_TVD
12,400.0	0.22	236.28	12,027.2	-294.1	-2,292.7	2,311.5	0.00	0.00	
12,492.8	0.22	236.28	12,120.0	-294.3	-2,293.0	2,311.9	0.00	0.00	Drillers TD @ 12,492' MD - E34 496 8508F-33 I
12,500.0	0.22	236.28	12,127.2	-294.3	-2,293.1	2,311.9	0.00	0.00	
12,600.0	0.22	236.28	12,227.2	-294.6	-2,293.4	2,312.2	0.00	0.00	
12,642.8	0.22	236.28	12,270.0	-294.7	-2,293.5	2,312.4	0.00	0.00	Permit TD @ 12,642' MD

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 8508F-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:	8508F-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 8508F-33 PBHI	0.00	0.00	12,120.0	-294.3	-2,293.0	1,676,001.93	2,248,734.71	39° 39' 32.830 N	108° 10' 7.510 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
E34 496 8508F-33 TGT	0.00	0.00	7,500.0	-284.3	-2,278.0	1,676,011.50	2,248,750.01	39° 39' 32.929 N	108° 10' 7.318 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,202.7	1,171.0	A_GROOVE_TVD				
1,369.8	1,329.0	B_GROOVE_TVD				
1,415.3	1,372.0	B_GROOVE_BASE_TVD				
2,345.1	2,251.0	GARDEN_GULCH_TVD				
3,415.5	3,263.0	WASATCH_FM_TVD				
5,639.9	5,366.0	WASATCH_G_TVD				
7,872.8	7,500.0	WILLIAMS_FORK_TVD				
10,933.8	10,561.0	CAMEO_TVD				
11,445.8	11,073.0	ROLLINS_TVD				
11,698.8	11,326.0	COZZETTE_TVD				
11,890.8	11,518.0	CORCORAN_TVD				
12,192.8	11,820.0	UPPER_SEGO_TVD				
12,342.8	11,970.0	SEGO_BASE_TARGET_TVD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment
200.0	200.0	0.0	0.0	KOP @ 200'
834.0	822.4	-12.9	-103.5	EOB; Inc=19°
7,238.8	6,877.6	-271.4	-2,174.6	Start Drop -3.00
7,872.8	7,500.0	-284.3	-2,278.0	EOD; Inc=0°
12,492.8	12,120.0	-284.4	-2,278.1	Drillers TD @ 12,492' MD
12,642.8	12,270.0	-294.3	-2,293.0	Permit TD @ 12,642' MD