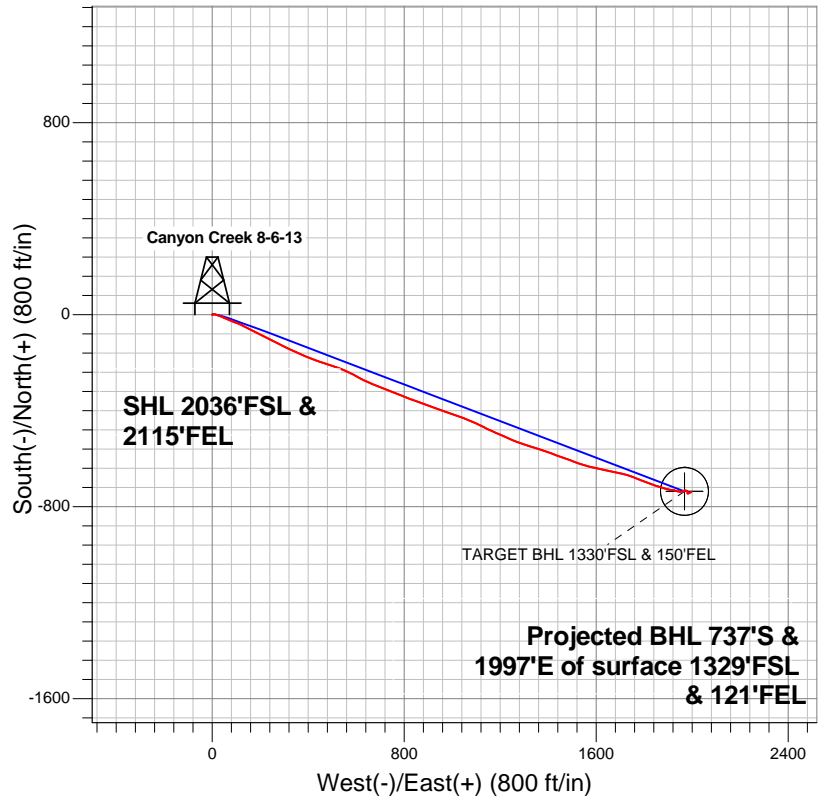


Well Name: Canyon Creek 8-6-13

Surface Location: Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 5058.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1261198.02	3122326.48	40.049550	-105.063040	
Original Well Elev			WELL @ 5071.0ft (Original Well Elev)			

EnCana Oil & Gas Boulder County, CO



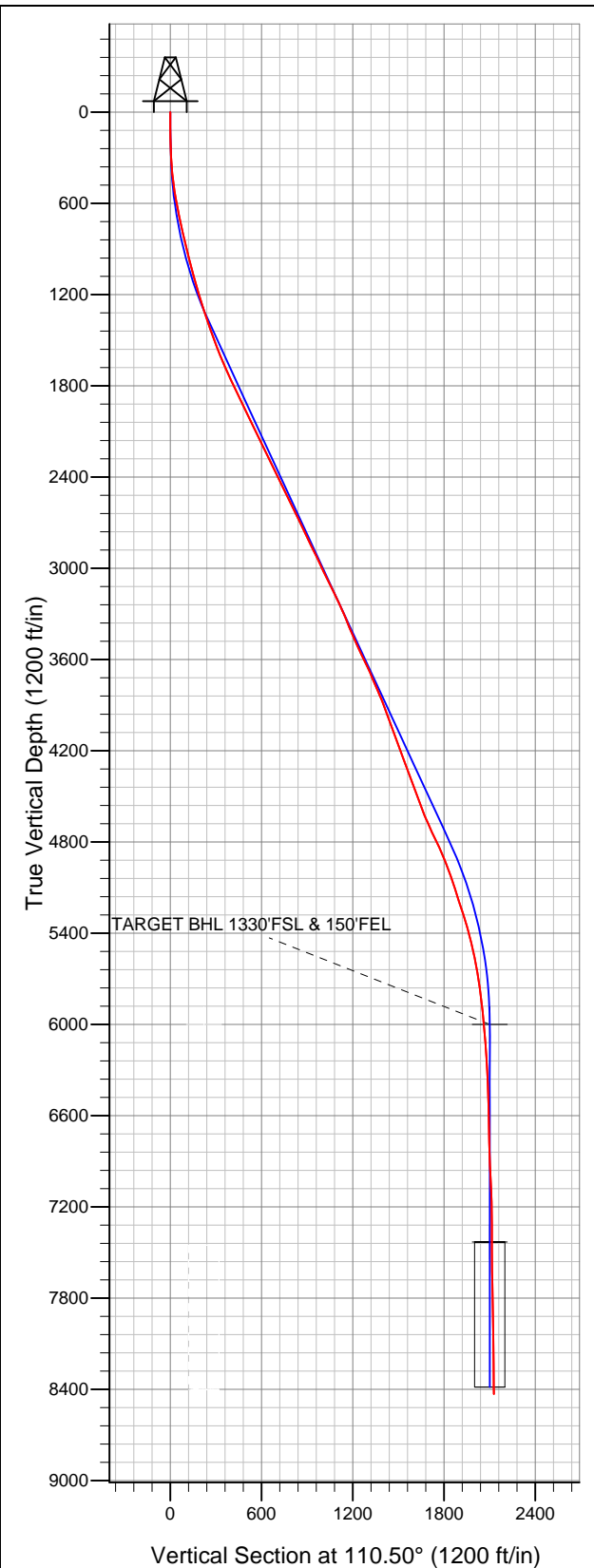
LEGEND

- Wellbore #1
- Canyon Creek 8-6-13, Wellbore #1, Plan #3 (7-3-12) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 8829'MD & 8430'TVD @ 2129'VS
 1.30 deg Inc 47.50 deg AZ

Project: SEC.13-T1N-R69W
 Site: Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W
 Well: Canyon Creek 8-6-13
 Plan: Wellbore #1





EnCana Oil & Gas Boulder County, CO

SEC.13-T1N-R69W

Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W

Canyon Creek 8-6-13

Wellbore #1

Survey: Survey #1

Standard Survey Report

10 July, 2012

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 8-6-13
Project:	SEC.13-T1N-R69W	TVD Reference:	WELL @ 5071.0ft (Original Well Elev)
Site:	Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W	MD Reference:	WELL @ 5071.0ft (Original Well Elev)
Well:	Canyon Creek 8-6-13	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.13-T1N-R69W, Boulder County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W				
Site Position:		Northing:	1,261,226.92 ft	Latitude:	40.049630
From:	Lat/Long	Easting:	3,122,273.14 ft	Longitude:	-105.063230
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.28 °

Well	Canyon Creek 8-6-13					
Well Position	+N-S	0.0 ft	Northing:	1,261,198.02 ft	Latitude:	40.049550
	+E-W	0.0 ft	Easting:	3,122,326.48 ft	Longitude:	-105.063040
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,058.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/14/2012	8.86	66.68	52,807

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	110.50	

Survey Program		Date	7/10/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
25.0	8,829.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
25.0	0.45	64.90	25.0	0.0	0.1	0.1	1.80	1.80	0.00
50.0	0.61	59.05	50.0	0.2	0.3	0.2	0.67	0.64	-23.40
75.0	1.17	48.09	75.0	0.4	0.6	0.4	2.33	2.24	-43.84
100.0	1.40	56.79	100.0	0.7	1.0	0.7	1.20	0.92	34.80
125.0	1.36	67.88	125.0	1.0	1.6	1.1	1.08	-0.16	44.36
150.0	1.48	69.24	150.0	1.2	2.1	1.6	0.50	0.48	5.44
175.0	1.54	60.97	175.0	1.5	2.7	2.0	0.90	0.24	-33.08
191.0	1.31	62.48	191.0	1.7	3.1	2.3	1.46	-1.44	9.44
221.0	1.80	64.40	220.9	2.1	3.8	2.9	1.64	1.63	6.40
313.0	3.30	90.40	312.9	2.7	7.8	6.3	2.02	1.63	28.26
404.0	6.30	107.80	403.5	1.1	15.1	13.8	3.63	3.30	19.12
496.0	8.20	111.00	494.8	-2.8	26.1	25.4	2.11	2.07	3.48

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 8-6-13
Project:	SEC.13-T1N-R69W	TVD Reference:	WELL @ 5071.0ft (Original Well Elev)
Site:	Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W	MD Reference:	WELL @ 5071.0ft (Original Well Elev)
Well:	Canyon Creek 8-6-13	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
587.0	10.00	114.70	584.6	-8.4	39.3	39.8	2.08	1.98	4.07
678.0	11.90	113.30	674.0	-15.4	55.1	57.0	2.11	2.09	-1.54
792.0	12.80	111.30	785.3	-24.6	77.7	81.4	0.87	0.79	-1.75
854.0	14.10	109.10	845.6	-29.6	91.2	95.8	2.25	2.10	-3.55
942.0	13.50	112.90	931.1	-37.1	110.8	116.8	1.23	-0.68	4.32
1,029.0	14.00	117.10	1,015.6	-45.9	129.5	137.4	1.28	0.57	4.83
1,116.0	15.70	117.70	1,099.7	-56.1	149.3	159.5	1.96	1.95	0.69
1,204.0	17.30	118.20	1,184.1	-67.9	171.4	184.3	1.83	1.82	0.57
1,291.0	18.20	116.10	1,266.9	-79.9	195.0	210.6	1.27	1.03	-2.41
1,378.0	18.50	115.00	1,349.5	-91.8	219.7	237.9	0.53	0.34	-1.26
1,465.0	19.30	116.60	1,431.8	-104.0	245.1	266.0	1.10	0.92	1.84
1,553.0	20.40	118.00	1,514.6	-117.7	271.6	295.7	1.36	1.25	1.59
1,640.0	22.10	117.50	1,595.7	-132.4	299.5	326.9	1.97	1.95	-0.57
1,727.0	23.60	114.90	1,675.8	-147.3	329.8	360.5	2.08	1.72	-2.99
1,815.0	25.10	112.60	1,756.0	-161.9	363.1	396.8	2.02	1.70	-2.61
1,902.0	25.70	111.30	1,834.6	-175.8	397.7	434.1	0.94	0.69	-1.49
1,989.0	26.60	111.20	1,912.7	-189.7	433.4	472.4	1.04	1.03	-0.11
2,077.0	25.40	108.20	1,991.8	-202.8	469.7	511.0	2.02	-1.36	-3.41
2,164.0	24.60	107.50	2,070.6	-214.0	504.7	547.7	0.98	-0.92	-0.80
2,251.0	26.00	112.20	2,149.3	-226.7	539.6	584.8	2.81	1.61	5.40
2,338.0	25.90	116.30	2,227.5	-242.3	574.3	622.8	2.07	-0.11	4.71
2,426.0	26.70	118.90	2,306.4	-260.4	608.9	661.5	1.59	0.91	2.95
2,513.0	26.80	114.00	2,384.1	-277.8	643.9	700.4	2.54	0.11	-5.63
2,600.0	26.50	112.70	2,461.9	-293.3	679.7	739.4	0.75	-0.34	-1.49
2,688.0	25.10	111.70	2,541.1	-307.7	715.2	777.7	1.67	-1.59	-1.14
2,775.0	25.80	111.00	2,619.7	-321.4	750.0	815.0	0.88	0.80	-0.80
2,862.0	25.90	111.50	2,698.0	-335.1	785.3	853.0	0.28	0.11	0.57
2,950.0	25.90	110.50	2,777.1	-348.9	821.2	891.4	0.50	0.00	-1.14
3,037.0	25.90	109.80	2,855.4	-362.0	856.9	929.4	0.35	0.00	-0.80
3,124.0	25.10	112.20	2,933.9	-375.4	891.9	966.8	1.50	-0.92	2.76
3,211.0	25.60	107.80	3,012.6	-388.1	926.9	1,004.1	2.24	0.57	-5.06
3,299.0	26.60	109.10	3,091.6	-400.4	963.6	1,042.8	1.31	1.14	1.48
3,386.0	25.80	108.50	3,169.6	-412.7	999.9	1,081.2	0.97	-0.92	-0.69
3,473.0	25.00	110.80	3,248.2	-425.3	1,035.1	1,118.5	1.46	-0.92	2.64
3,561.0	22.40	114.00	3,328.8	-438.7	1,067.8	1,153.8	3.30	-2.95	3.64
3,648.0	22.60	115.40	3,409.2	-452.6	1,098.0	1,187.0	0.66	0.23	1.61
3,735.0	23.90	115.60	3,489.1	-467.4	1,129.0	1,221.2	1.50	1.49	0.23
3,823.0	26.00	114.50	3,568.9	-483.1	1,162.7	1,258.2	2.44	2.39	-1.25
3,910.0	25.10	112.90	3,647.4	-498.2	1,197.0	1,295.7	1.30	-1.03	-1.84
3,997.0	23.50	114.70	3,726.7	-512.6	1,229.8	1,331.4	2.03	-1.84	2.07
4,084.0	23.10	111.30	3,806.6	-526.1	1,261.4	1,365.8	1.61	-0.46	-3.91
4,172.0	21.10	108.70	3,888.1	-537.4	1,292.5	1,398.9	2.53	-2.27	-2.95
4,259.0	20.50	108.90	3,969.5	-547.4	1,321.8	1,429.8	0.69	-0.69	0.23
4,346.0	20.30	104.30	4,051.0	-556.0	1,350.8	1,460.0	1.86	-0.23	-5.29
4,434.0	19.40	109.90	4,133.8	-564.8	1,379.3	1,489.8	2.39	-1.02	6.36
4,521.0	19.60	112.20	4,215.8	-575.2	1,406.4	1,518.8	0.91	0.23	2.64
4,608.0	22.30	108.90	4,297.0	-586.1	1,435.6	1,549.9	3.39	3.10	-3.79
4,696.0	20.20	108.90	4,379.0	-596.4	1,465.7	1,581.8	2.39	-2.39	0.00
4,783.0	19.30	109.40	4,460.9	-606.0	1,493.5	1,611.2	1.05	-1.03	0.57
4,870.0	20.00	112.40	4,542.9	-616.5	1,520.8	1,640.4	1.41	0.80	3.45
4,957.0	22.60	107.10	4,623.9	-627.1	1,550.6	1,672.0	3.72	2.99	-6.09
5,045.0	24.90	101.70	4,704.5	-635.8	1,584.9	1,707.2	3.59	2.61	-6.14
5,132.0	25.90	102.40	4,783.1	-643.6	1,621.4	1,744.1	1.20	1.15	0.80
5,219.0	24.00	101.80	4,861.9	-651.3	1,657.3	1,780.4	2.20	-2.18	-0.69

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Well:	Canyon Creek 8-6-13	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,307.0	21.80	102.40	4,943.0	-658.5	1,690.7	1,814.3	2.51	-2.50	0.68
5,394.0	19.10	104.00	5,024.5	-665.4	1,720.3	1,844.4	3.17	-3.10	1.84
5,481.0	17.60	110.50	5,107.1	-673.4	1,746.5	1,871.7	2.91	-1.72	7.47
5,569.0	18.30	111.90	5,190.8	-683.3	1,771.8	1,898.8	0.93	0.80	1.59
5,656.0	17.60	110.60	5,273.6	-693.0	1,796.7	1,925.6	0.93	-0.80	-1.49
5,743.0	16.60	110.60	5,356.7	-702.0	1,820.7	1,951.2	1.15	-1.15	0.00
5,830.0	14.30	109.10	5,440.6	-709.9	1,842.5	1,974.4	2.68	-2.64	-1.72
5,918.0	11.70	107.60	5,526.3	-716.1	1,861.3	1,994.2	2.98	-2.95	-1.70
6,005.0	10.80	106.60	5,611.6	-721.1	1,877.5	2,011.1	1.06	-1.03	-1.15
6,050.8	9.90	105.73	5,656.7	-723.4	1,885.4	2,019.3	1.99	-1.96	-1.90
TARGET BHL 50°FSL & 2623°FEL									
6,092.0	9.10	104.80	5,697.3	-725.2	1,891.9	2,026.1	1.99	-1.95	-2.25
6,180.0	7.80	102.40	5,784.4	-728.3	1,904.5	2,038.9	1.53	-1.48	-2.73
6,267.0	6.30	95.90	5,870.7	-730.0	1,915.0	2,049.4	1.95	-1.72	-7.47
6,354.0	5.60	98.30	5,957.2	-731.1	1,924.0	2,058.2	0.85	-0.80	2.76
6,400.7	5.43	102.70	6,003.8	-731.9	1,928.4	2,062.6	0.98	-0.37	9.41
TARGET BHL 1330°FSL & 150°FEL									
6,442.0	5.30	106.80	6,044.8	-732.9	1,932.1	2,066.4	0.98	-0.30	9.94
6,529.0	4.00	102.70	6,131.6	-734.7	1,938.9	2,073.4	1.54	-1.49	-4.71
6,616.0	3.70	105.50	6,218.4	-736.2	1,944.6	2,079.2	0.41	-0.34	3.22
6,703.0	3.30	94.30	6,305.2	-737.1	1,949.8	2,084.4	0.91	-0.46	-12.87
6,791.0	2.30	88.30	6,393.1	-737.2	1,954.1	2,088.5	1.18	-1.14	-6.82
6,878.0	2.30	79.50	6,480.0	-736.9	1,957.5	2,091.6	0.41	0.00	-10.11
7,053.0	1.50	53.30	6,654.9	-734.9	1,962.8	2,095.9	0.66	-0.46	-14.97
7,227.0	1.90	67.20	6,828.9	-732.4	1,967.3	2,099.2	0.33	0.23	7.99
7,402.0	3.50	101.00	7,003.7	-732.3	1,975.2	2,106.6	1.25	0.91	19.31
7,576.0	2.10	164.10	7,177.5	-736.4	1,981.3	2,113.7	1.82	-0.80	36.26
7,751.0	1.00	212.60	7,352.4	-740.7	1,981.4	2,115.3	0.93	-0.63	27.71
7,829.5	0.94	195.18	7,430.9	-741.9	1,980.8	2,115.2	0.38	-0.07	-22.18
TARGET CIRCLE 1330°FSL & 150°FEL									
7,873.1	0.95	185.14	7,474.5	-742.6	1,980.7	2,115.3	0.38	0.02	-23.07
TARGET CIRCLE 50°FSL & 2623°FEL									
7,926.0	1.00	173.60	7,527.4	-743.5	1,980.7	2,115.7	0.38	0.09	-21.79
8,100.0	1.50	67.90	7,701.4	-744.2	1,983.0	2,118.0	1.16	0.29	-60.75
8,275.0	1.40	65.50	7,876.3	-742.4	1,987.1	2,121.2	0.07	-0.06	-1.37
8,449.0	1.30	63.90	8,050.3	-740.7	1,990.8	2,124.1	0.06	-0.06	-0.92
8,624.0	1.00	66.70	8,225.2	-739.2	1,994.0	2,126.6	0.17	-0.17	1.60
8,779.0	1.10	47.50	8,380.2	-737.7	1,996.3	2,128.2	0.23	0.06	-12.39
8,829.0	1.30	47.50	8,430.2	-737.0	1,997.1	2,128.7	0.40	0.40	0.00

Checked By: _____ Approved By: _____ Date: _____