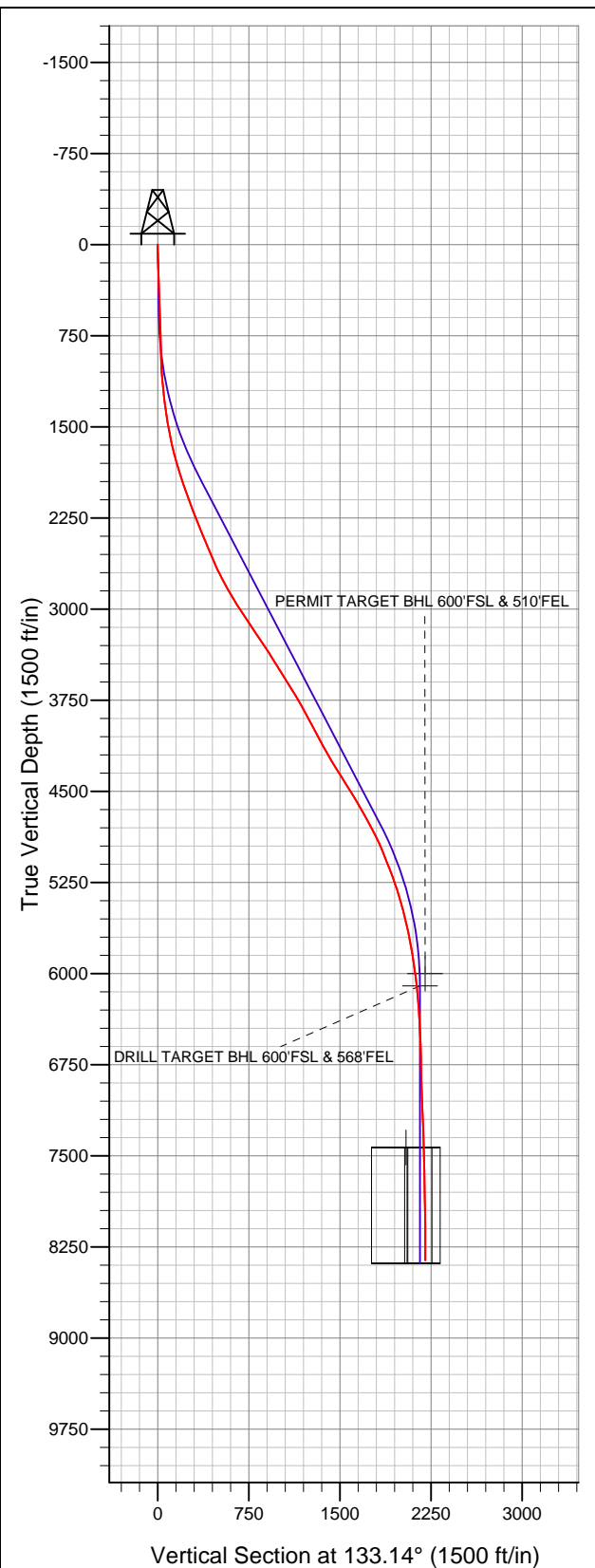


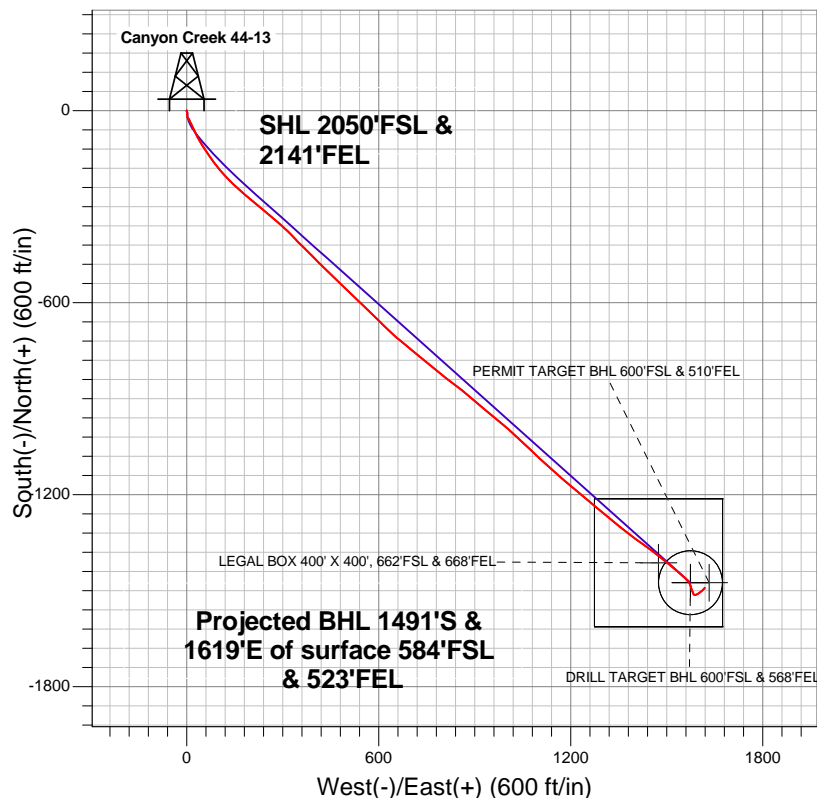
Well Name: Canyon Creek 44-13

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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1261212.48	3122301.21	40.049590	-105.063130	
Original Well Elev		WELL @ 5071.0ft (Original Well Elev)				



EnCana Oil & Gas Boulder County, CO



- LEGEND
- Wellbore #1
 - Canyon Creek 44-13, Wellbore #1, Plan #2 (6-18-12)R V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
8850'MD & 8359'TVD @ 2201'VS
2.30 deg Inc 33.60 deg AZ

Project: SEC.13-T1N-R69W
Site: Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W
Well: Canyon Creek 44-13
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 44-13

Wellbore #1

Survey: Survey #1

Standard Survey Report

27 June, 2012

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 44-13
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 44-13	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
From:	Lat/Long	Easting:	3,122,273.14 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.049630
		Longitude:	-105.063230
		Grid Convergence:	0.28 °

Well	Canyon Creek 44-13		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.049590
		Longitude:	-105.063130
		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	133.14	

Survey Program	Date	6/26/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
25.0	8,850.0	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	0.85	179.96	25.0	-0.2	0.0	0.1	3.40	3.40	0.00	
50.0	1.15	179.30	50.0	-0.6	0.0	0.4	1.20	1.20	-2.64	
75.0	1.32	182.56	75.0	-1.2	0.0	0.8	0.74	0.68	13.04	
100.0	1.49	168.27	100.0	-1.8	0.0	1.2	1.55	0.68	-57.16	
125.0	1.43	165.38	125.0	-2.4	0.2	1.8	0.38	-0.24	-11.56	
150.0	1.72	160.09	150.0	-3.0	0.4	2.4	1.30	1.16	-21.16	
175.0	1.81	153.56	175.0	-3.7	0.7	3.1	0.88	0.36	-26.12	
195.0	1.70	146.86	194.9	-4.3	1.0	3.7	1.16	-0.55	-33.50	
223.0	2.40	162.50	222.9	-5.2	1.4	4.6	3.18	2.50	55.86	
314.0	3.60	181.80	313.8	-9.9	1.9	8.1	1.71	1.32	21.21	
406.0	3.30	183.10	405.6	-15.4	1.7	11.7	0.34	-0.33	1.41	
497.0	2.50	169.20	496.5	-20.0	1.9	15.0	1.16	-0.88	-15.27	

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 44-13
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 44-13	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)	
589.0	1.80	133.50	588.5	-22.9	3.3	18.1	1.61	-0.76	-38.80	
680.0	1.90	127.70	679.4	-24.8	5.5	21.0	0.23	0.11	-6.37	
786.0	1.10	162.50	785.4	-26.9	7.2	23.7	1.11	-0.75	32.83	
850.0	1.10	162.50	849.4	-28.0	7.6	24.7	0.00	0.00	0.00	
886.0	1.50	159.70	885.4	-28.8	7.9	25.4	1.12	1.11	-7.78	
973.0	2.60	153.00	972.3	-31.6	9.2	28.3	1.29	1.26	-7.70	
1,060.0	4.00	151.10	1,059.1	-36.1	11.5	33.1	1.61	1.61	-2.18	
1,147.0	5.50	156.90	1,145.8	-42.5	14.6	39.8	1.81	1.72	6.67	
1,235.0	6.90	154.40	1,233.3	-51.2	18.6	48.6	1.62	1.59	-2.84	
1,322.0	8.30	154.90	1,319.6	-61.6	23.5	59.3	1.61	1.61	0.57	
1,409.0	9.30	154.40	1,405.5	-73.6	29.2	71.6	1.15	1.15	-0.57	
1,497.0	10.20	151.60	1,492.3	-86.9	36.0	85.7	1.16	1.02	-3.18	
1,584.0	11.90	149.10	1,577.7	-101.4	44.2	101.6	2.03	1.95	-2.87	
1,671.0	13.50	146.10	1,662.5	-117.5	54.5	120.1	1.99	1.84	-3.45	
1,759.0	15.70	146.50	1,747.7	-135.9	66.8	141.7	2.50	2.50	0.45	
1,846.0	17.20	144.00	1,831.1	-156.2	80.9	165.8	1.91	1.72	-2.87	
1,933.0	18.40	141.20	1,913.9	-177.3	97.0	192.0	1.69	1.38	-3.22	
2,020.0	18.60	137.40	1,996.5	-198.2	115.0	219.5	1.40	0.23	-4.37	
2,108.0	20.10	136.50	2,079.5	-219.5	134.9	248.6	1.74	1.70	-1.02	
2,195.0	21.20	132.60	2,160.9	-241.0	156.8	279.2	2.02	1.26	-4.48	
2,282.0	21.10	128.70	2,242.0	-261.4	180.6	310.6	1.62	-0.11	-4.48	
2,370.0	22.20	130.90	2,323.8	-282.2	205.5	343.0	1.55	1.25	2.50	
2,457.0	23.00	130.10	2,404.2	-303.9	231.0	376.4	0.99	0.92	-0.92	
2,544.0	22.10	130.10	2,484.5	-325.4	256.5	409.7	1.03	-1.03	0.00	
2,632.0	23.00	130.30	2,565.8	-347.2	282.3	443.4	1.03	1.02	0.23	
2,719.0	24.40	132.60	2,645.4	-370.4	308.5	478.3	1.93	1.61	2.64	
2,806.0	27.30	135.70	2,723.7	-396.8	335.6	516.2	3.68	3.33	3.56	
2,893.0	28.60	135.20	2,800.6	-425.9	364.2	557.0	1.52	1.49	-0.57	
2,981.0	30.70	135.90	2,877.0	-456.9	394.7	600.5	2.42	2.39	0.80	
3,068.0	31.50	134.20	2,951.5	-488.7	426.5	645.4	1.37	0.92	-1.95	
3,155.0	32.80	134.50	3,025.2	-521.1	459.6	691.7	1.51	1.49	0.34	
3,243.0	33.50	133.70	3,098.9	-554.6	494.1	739.8	0.94	0.80	-0.91	
3,330.0	34.30	133.00	3,171.1	-587.9	529.4	788.3	1.02	0.92	-0.80	
3,417.0	34.60	134.70	3,242.8	-622.0	564.9	837.5	1.16	0.34	1.95	
3,505.0	33.10	134.50	3,315.9	-656.4	599.8	886.5	1.71	-1.70	-0.23	
3,592.0	32.10	133.50	3,389.2	-689.0	633.5	933.4	1.31	-1.15	-1.15	
3,679.0	32.60	129.10	3,462.7	-719.7	668.5	979.9	2.77	0.57	-5.06	
3,766.0	31.90	130.50	3,536.3	-749.4	704.1	1,026.2	1.18	-0.80	1.61	
3,854.0	31.60	128.70	3,611.1	-778.9	739.8	1,072.4	1.13	-0.34	-2.05	
3,941.0	32.10	129.30	3,685.0	-807.8	775.5	1,118.2	0.68	0.57	0.69	
4,028.0	29.90	128.70	3,759.6	-836.0	810.3	1,162.9	2.55	-2.53	-0.69	
4,116.0	28.90	126.50	3,836.3	-862.4	844.5	1,205.9	1.67	-1.14	-2.50	
4,203.0	28.00	129.80	3,912.8	-887.9	877.1	1,247.2	2.08	-1.03	3.79	
4,290.0	27.30	131.20	3,989.8	-914.1	907.8	1,287.5	1.10	-0.80	1.61	
4,378.0	28.40	129.10	4,067.6	-940.6	939.2	1,328.5	1.67	1.25	-2.39	
4,465.0	29.50	128.90	4,143.8	-967.1	972.0	1,370.5	1.27	1.26	-0.23	
4,552.0	29.50	132.30	4,219.5	-995.0	1,004.5	1,413.3	1.92	0.00	3.91	
4,639.0	32.30	132.60	4,294.1	-1,025.2	1,037.4	1,458.0	3.22	3.22	0.34	
4,727.0	32.50	134.00	4,368.4	-1,057.5	1,071.8	1,505.1	0.88	0.23	1.59	
4,814.0	31.80	133.50	4,442.1	-1,089.5	1,105.2	1,551.4	0.86	-0.80	-0.57	
4,901.0	31.00	131.70	4,516.4	-1,120.2	1,138.6	1,596.8	1.42	-0.92	-2.07	
4,989.0	31.20	129.60	4,591.7	-1,149.8	1,173.0	1,642.2	1.25	0.23	-2.39	
5,076.0	29.40	130.00	4,666.8	-1,177.9	1,206.8	1,686.0	2.08	-2.07	0.46	
5,163.0	29.00	130.10	4,742.8	-1,205.2	1,239.3	1,728.4	0.46	-0.46	0.11	

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Site:	Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W	MD Reference:	WELL @ 5071.0ft (Original Well Elev)
Well:	Canyon Creek 44-13	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)
5,251.0	27.30	130.00	4,820.4	-1,231.9	1,271.0	1,769.8	1.93	-1.93	-0.11
5,338.0	25.60	131.20	4,898.2	-1,257.1	1,300.5	1,808.5	2.05	-1.95	1.38
5,425.0	22.90	129.30	4,977.6	-1,280.2	1,327.7	1,844.2	3.23	-3.10	-2.18
5,512.0	21.50	127.70	5,058.1	-1,300.7	1,353.4	1,877.0	1.75	-1.61	-1.84
5,600.0	20.90	127.00	5,140.2	-1,320.0	1,378.7	1,908.6	0.74	-0.68	-0.80
5,687.0	20.00	127.50	5,221.7	-1,338.4	1,402.9	1,938.9	1.05	-1.03	0.57
5,774.0	18.50	125.20	5,303.8	-1,355.4	1,426.0	1,967.3	1.93	-1.72	-2.64
5,862.0	16.80	125.20	5,387.7	-1,370.8	1,447.8	1,993.8	1.93	-1.93	0.00
5,949.0	14.50	129.30	5,471.4	-1,385.0	1,466.5	2,017.1	2.93	-2.64	4.71
6,036.0	13.00	129.80	5,555.9	-1,398.1	1,482.5	2,037.7	1.73	-1.72	0.57
6,124.0	12.90	128.60	5,641.7	-1,410.6	1,497.7	2,057.4	0.33	-0.11	-1.36
6,211.0	11.00	128.40	5,726.8	-1,421.8	1,511.8	2,075.4	2.18	-2.18	-0.23
6,298.0	9.20	129.40	5,812.5	-1,431.4	1,523.7	2,090.6	2.08	-2.07	1.15
6,385.0	8.70	130.70	5,898.4	-1,440.1	1,534.1	2,104.1	0.62	-0.57	1.49
6,473.0	8.30	130.70	5,985.4	-1,448.6	1,543.9	2,117.1	0.45	-0.45	0.00
6,498.2	7.75	131.15	6,010.4	-1,450.9	1,546.6	2,120.6	2.20	-2.19	1.81
PERMIT TARGET BHL 600'FSL & 510'FEL									
6,560.0	6.40	132.60	6,071.7	-1,455.9	1,552.3	2,128.2	2.20	-2.18	2.34
6,591.2	6.04	133.43	6,102.7	-1,458.2	1,554.7	2,131.6	1.19	-1.15	2.67
DRILL TARGET BHL 600'FSL & 568'FEL									
6,647.0	5.40	135.20	6,158.2	-1,462.1	1,558.7	2,137.1	1.19	-1.15	3.17
6,735.0	4.60	141.90	6,245.9	-1,467.8	1,563.8	2,144.8	1.12	-0.91	7.61
6,822.0	3.50	144.00	6,332.7	-1,472.7	1,567.5	2,150.8	1.28	-1.26	2.41
6,909.0	3.30	143.20	6,419.5	-1,476.9	1,570.6	2,155.9	0.24	-0.23	-0.92
6,997.0	2.80	151.60	6,507.4	-1,480.8	1,573.1	2,160.4	0.76	-0.57	9.55
7,084.0	2.00	160.90	6,594.3	-1,484.1	1,574.6	2,163.8	1.02	-0.92	10.69
7,258.0	1.10	174.30	6,768.3	-1,488.6	1,575.8	2,167.7	0.55	-0.52	7.70
7,433.0	1.90	163.40	6,943.2	-1,493.1	1,576.8	2,171.5	0.48	0.46	-6.23
7,608.0	2.50	159.00	7,118.1	-1,499.4	1,579.0	2,177.4	0.36	0.34	-2.51
7,782.0	2.70	156.90	7,291.9	-1,506.7	1,582.0	2,184.6	0.13	0.11	-1.21
7,915.7	1.91	142.92	7,425.5	-1,511.4	1,584.5	2,189.7	0.72	-0.59	-10.46
LEGAL BOX 400' X 400', 662'FSL & 668'FEL									
7,919.8	1.89	142.30	7,429.6	-1,511.5	1,584.6	2,189.8	0.72	-0.53	-14.83
TARGET CIRCLE 600'FSL & 568'FEL									
7,957.0	1.70	136.10	7,466.8	-1,512.4	1,585.4	2,191.0	0.72	-0.50	-16.67
8,131.0	1.60	76.20	7,640.7	-1,513.7	1,589.5	2,194.9	0.95	-0.06	-34.43
8,306.0	3.30	61.10	7,815.6	-1,510.7	1,596.3	2,197.8	1.03	0.97	-8.63
8,481.0	4.00	52.80	7,990.2	-1,504.5	1,605.6	2,200.3	0.50	0.40	-4.74
8,655.0	2.90	46.70	8,163.9	-1,497.9	1,613.6	2,201.6	0.67	-0.63	-3.51
8,800.0	2.30	33.60	8,308.7	-1,492.9	1,617.9	2,201.4	0.58	-0.41	-9.03
8,850.0	2.30	33.60	8,358.7	-1,491.2	1,619.0	2,201.1	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____