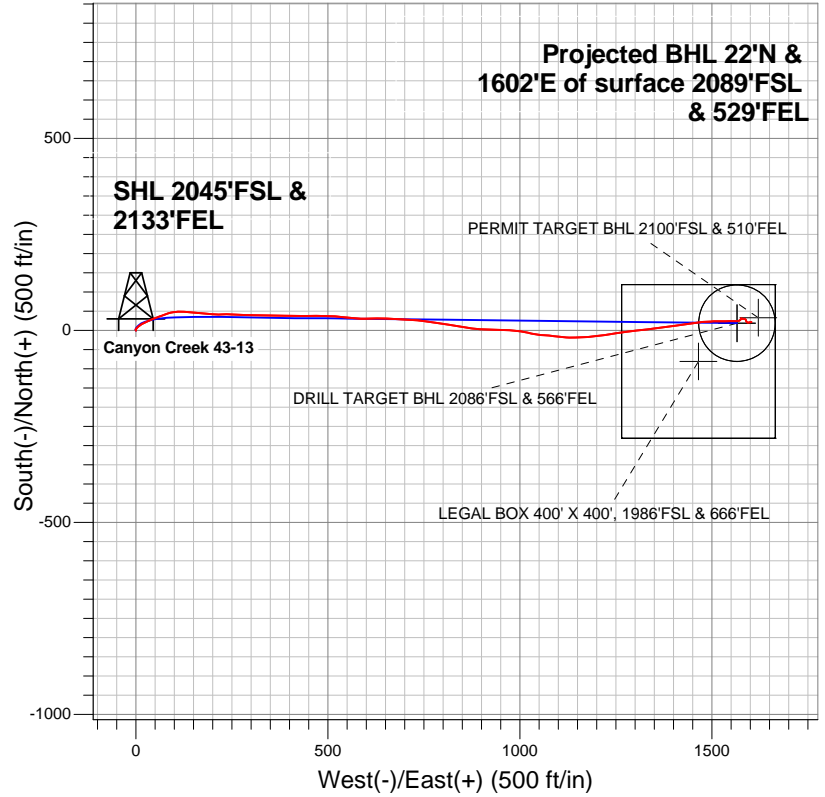


Well Name: Canyon Creek 43-13

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	1261205.23	3122309.64	40.049570	-105.063100	
Original Well Elev						
WELL @ 5071.0ft (Original Well Elev)						

EnCana Oil & Gas Boulder County, CO

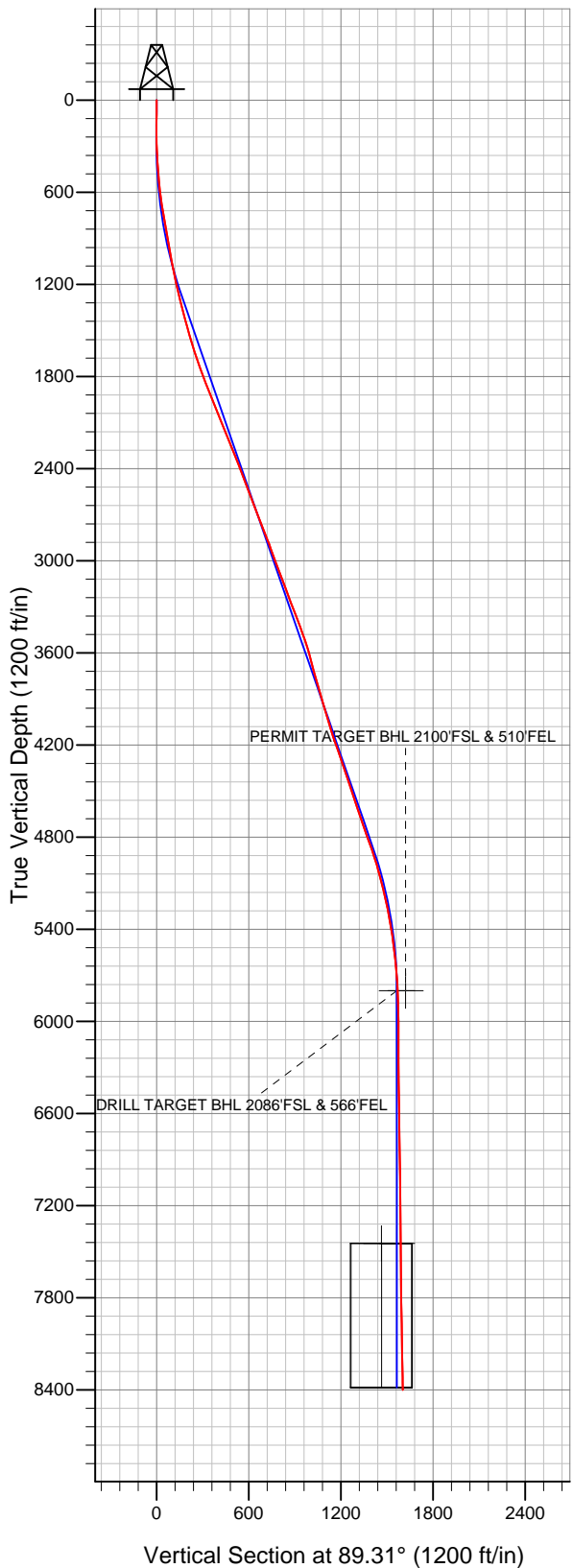


- LEGEND
- Wellbore #1
 - Canyon Creek 43-13, Wellbore #1, Plan #2 (6-25-12)R V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
 8650'MD & 8400'TVD @ 1602°VS
 1.00 deg Inc 85.70 deg AZ

Project: SEC.13-T1N-R69W
 Site: Canyon Creek 4-6-13 Pad Sec.13-T1N-R69W
 Well: Canyon Creek 43-13
 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 43-13

Wellbore #1

Survey: Survey #1

Standard Survey Report

02 July, 2012

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 43-13
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 43-13	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 43-13					
Well Position	+N-S	0.0 ft	Northing:	1,261,205.23 ft	Latitude:	40.049570
	+E-W	0.0 ft	Easting:	3,122,309.64 ft	Longitude:	-105.063100
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	6/25/2012	8.85	66.68	52,804

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 (°)	
	5,800.0	0.0	0.0	89.31	

Survey Program		Date	7/2/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
25.0	8,650.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey	Wellbore Data									
	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)
Main Survey	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	25.0	0.09	57.56	25.0	0.0	0.0	0.0	0.36	0.36	0.00
	50.0	0.29	19.50	50.0	0.1	0.1	0.1	0.89	0.78	-152.25
	75.0	0.50	283.71	75.0	0.2	0.0	0.0	2.42	0.88	-383.13
	100.0	0.52	321.38	100.0	0.3	-0.2	-0.2	1.32	0.06	150.66
	125.0	0.45	326.17	125.0	0.4	-0.3	-0.3	0.33	-0.28	19.18
	150.0	0.92	334.97	150.0	0.7	-0.5	-0.5	1.92	1.88	35.19
	175.0	0.92	348.63	175.0	1.1	-0.6	-0.6	0.88	0.01	54.64
	178.0	1.17	352.70	178.0	1.1	-0.6	-0.6	8.50	8.13	135.70
	223.0	1.40	16.90	223.0	2.1	-0.5	-0.5	1.30	0.52	53.78
	314.0	3.30	38.90	313.9	5.2	1.5	1.5	2.27	2.09	24.18
	406.0	4.70	50.20	405.7	9.7	6.0	6.1	1.74	1.52	12.28
497.0	5.60	54.60	496.3	14.7	12.5	12.7	1.08	0.99	4.84	

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Canyon Creek 43-13
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 43-13	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	7.30	65.50	587.7	19.7	21.5	21.7	2.27	1.85	11.85
680.0	9.10	64.80	677.8	25.1	33.3	33.6	1.98	1.98	-0.77
771.0	11.00	70.70	767.4	31.1	48.0	48.3	2.37	2.09	6.48
786.0	11.20	70.00	782.1	32.1	50.7	51.1	1.61	1.33	-4.67
850.0	11.40	70.00	844.9	36.3	62.5	62.9	0.31	0.31	0.00
886.0	10.00	67.70	880.2	38.7	68.7	69.2	4.07	-3.89	-6.39
973.0	10.30	72.30	965.9	44.0	83.1	83.6	0.99	0.34	5.29
1,060.0	10.40	80.90	1,051.5	47.6	98.3	98.8	1.78	0.11	9.89
1,147.0	11.80	90.90	1,136.9	48.7	114.9	115.5	2.73	1.61	11.49
1,235.0	12.90	94.50	1,222.8	47.8	133.7	134.3	1.53	1.25	4.09
1,322.0	14.10	95.20	1,307.4	46.0	153.9	154.5	1.39	1.38	0.80
1,409.0	14.90	95.70	1,391.6	44.0	175.6	176.1	0.93	0.92	0.57
1,497.0	16.10	94.80	1,476.4	41.8	199.0	199.5	1.39	1.36	-1.02
1,584.0	16.70	86.90	1,559.9	41.5	223.6	224.0	2.65	0.69	-9.08
1,671.0	17.40	91.30	1,643.1	41.9	249.0	249.5	1.69	0.80	5.06
1,759.0	19.20	95.20	1,726.6	40.3	276.6	277.1	2.47	2.05	4.43
1,846.0	20.80	89.50	1,808.4	39.1	306.3	306.8	2.90	1.84	-6.55
1,933.0	21.90	90.10	1,889.4	39.2	338.0	338.4	1.29	1.26	0.69
2,020.0	22.30	92.70	1,970.0	38.4	370.7	371.1	1.21	0.46	2.99
2,108.0	22.20	91.10	2,051.5	37.3	404.0	404.4	0.70	-0.11	-1.82
2,195.0	22.50	88.50	2,131.9	37.4	437.1	437.5	1.19	0.34	-2.99
2,282.0	21.80	90.20	2,212.5	37.8	469.9	470.3	1.09	-0.80	1.95
2,370.0	21.60	91.80	2,294.3	37.2	502.4	502.8	0.71	-0.23	1.82
2,457.0	20.80	96.00	2,375.4	35.1	533.8	534.1	1.97	-0.92	4.83
2,544.0	20.90	96.00	2,456.7	31.9	564.6	564.9	0.11	0.11	0.00
2,632.0	21.10	88.70	2,538.9	30.6	596.0	596.3	2.98	0.23	-8.30
2,719.0	21.00	89.70	2,620.1	31.0	627.3	627.6	0.43	-0.11	1.15
2,806.0	20.80	92.70	2,701.4	30.4	658.3	658.6	1.25	-0.23	3.45
2,893.0	22.00	93.20	2,782.4	28.8	690.0	690.3	1.40	1.38	0.57
2,981.0	21.40	93.40	2,864.1	26.9	722.5	722.7	0.69	-0.68	0.23
3,068.0	19.70	98.70	2,945.6	23.7	752.8	753.0	2.89	-1.95	6.09
3,155.0	20.40	97.80	3,027.3	19.4	782.3	782.5	0.88	0.80	-1.03
3,243.0	21.50	98.50	3,109.5	15.0	813.5	813.6	1.28	1.25	0.80
3,330.0	20.80	100.30	3,190.6	9.9	844.4	844.5	1.10	-0.80	2.07
3,417.0	20.90	96.90	3,271.9	5.2	875.0	875.0	1.40	0.11	-3.91
3,505.0	21.10	92.00	3,354.1	2.8	906.5	906.4	2.01	0.23	-5.57
3,592.0	20.40	91.80	3,435.5	1.8	937.3	937.2	0.81	-0.80	-0.23
3,679.0	18.90	92.40	3,517.4	0.7	966.5	966.4	1.74	-1.72	0.69
3,766.0	16.40	96.40	3,600.3	-1.3	992.8	992.7	3.19	-2.87	4.60
3,854.0	14.00	103.60	3,685.2	-5.1	1,015.5	1,015.3	3.47	-2.73	8.18
3,941.0	15.90	99.90	3,769.3	-9.7	1,037.5	1,037.3	2.44	2.18	-4.25
4,028.0	17.50	93.10	3,852.6	-12.4	1,062.3	1,062.0	2.90	1.84	-7.82
4,116.0	16.60	97.50	3,936.7	-14.8	1,087.9	1,087.7	1.79	-1.02	5.00
4,203.0	15.80	96.00	4,020.3	-17.6	1,112.0	1,111.7	1.04	-0.92	-1.72
4,290.0	17.10	89.70	4,103.7	-18.8	1,136.6	1,136.3	2.54	1.49	-7.24
4,378.0	18.60	86.90	4,187.5	-18.0	1,163.6	1,163.3	1.96	1.70	-3.18
4,465.0	20.00	83.90	4,269.6	-15.6	1,192.2	1,191.9	1.97	1.61	-3.45
4,552.0	19.90	81.60	4,351.4	-11.9	1,221.7	1,221.4	0.91	-0.11	-2.64
4,639.0	18.20	80.80	4,433.6	-7.6	1,249.7	1,249.5	1.98	-1.95	-0.92
4,727.0	17.70	83.00	4,517.3	-3.7	1,276.6	1,276.4	0.96	-0.57	2.50
4,814.0	18.50	83.60	4,600.0	-0.6	1,303.4	1,303.3	0.94	0.92	0.69
4,901.0	18.70	83.70	4,682.5	2.5	1,331.0	1,330.9	0.23	0.23	0.11
4,989.0	20.80	81.50	4,765.3	6.3	1,360.5	1,360.4	2.53	2.39	-2.50
5,076.0	19.40	83.60	4,847.0	10.2	1,390.1	1,390.1	1.81	-1.61	2.41

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Well:	Canyon Creek 43-13	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)
5,163.0	17.90	82.20	4,929.4	13.7	1,417.7	1,417.8	1.80	-1.72	-1.61
5,251.0	15.80	80.20	5,013.6	17.5	1,442.9	1,443.0	2.48	-2.39	-2.27
5,338.0	14.40	82.90	5,097.6	20.9	1,465.3	1,465.5	1.80	-1.61	3.10
5,425.0	13.20	88.30	5,182.1	22.5	1,486.0	1,486.1	2.02	-1.38	6.21
5,512.0	11.50	86.70	5,267.1	23.3	1,504.6	1,504.7	1.99	-1.95	-1.84
5,600.0	10.00	90.90	5,353.6	23.7	1,521.0	1,521.1	1.92	-1.70	4.77
5,687.0	8.40	88.30	5,439.5	23.8	1,534.9	1,535.1	1.90	-1.84	-2.99
5,774.0	6.80	89.00	5,525.7	24.0	1,546.4	1,546.6	1.84	-1.84	0.80
5,862.0	6.10	91.10	5,613.1	24.0	1,556.3	1,556.4	0.84	-0.80	2.39
5,949.0	4.30	87.10	5,699.8	24.1	1,564.1	1,564.3	2.11	-2.07	-4.60
6,036.0	2.50	79.50	5,786.6	24.6	1,569.3	1,569.5	2.13	-2.07	-8.74
6,049.2	2.36	76.18	5,799.7	24.7	1,569.8	1,570.0	1.50	-1.05	-25.28
DRILL TARGET BHL 2086'FSL & 566'FEL									
6,051.2	2.34	75.62	5,801.8	24.8	1,569.9	1,570.1	1.50	-1.01	-26.98
PERMIT TARGET BHL 2100'FSL & 510'FEL									
6,124.0	1.80	48.90	5,874.5	25.9	1,572.2	1,572.4	1.50	-0.74	-36.71
6,211.0	1.60	42.60	5,961.5	27.7	1,574.0	1,574.3	0.31	-0.23	-7.24
6,298.0	1.20	18.40	6,048.5	29.4	1,575.2	1,575.4	0.81	-0.46	-27.82
6,473.0	0.10	308.20	6,223.5	31.3	1,575.6	1,575.9	0.67	-0.63	-40.11
6,647.0	0.80	115.00	6,397.5	30.9	1,576.6	1,576.9	0.52	0.40	95.86
6,822.0	0.90	103.10	6,572.4	30.0	1,579.0	1,579.3	0.12	0.06	-6.80
6,997.0	1.00	82.20	6,747.4	29.9	1,581.9	1,582.1	0.20	0.06	-11.94
7,171.0	0.50	92.70	6,921.4	30.1	1,584.2	1,584.4	0.30	-0.29	6.03
7,346.0	1.10	110.80	7,096.4	29.5	1,586.5	1,586.7	0.37	0.34	10.34
7,520.0	1.10	163.70	7,270.4	27.3	1,588.5	1,588.7	0.56	0.00	30.40
7,695.0	1.00	163.00	7,445.3	24.2	1,589.4	1,589.6	0.06	-0.06	-0.40
7,695.6	1.00	163.00	7,445.9	24.2	1,589.4	1,589.6	0.00	0.00	0.00
TARGET CIRCLE 2086'FSL & 566'FEL									
7,696.3	1.00	163.00	7,446.6	24.2	1,589.4	1,589.6	0.00	0.00	0.00
LEGAL BOX 400' X 400', 1986'FSL & 666'FEL									
7,870.0	0.80	143.90	7,620.3	21.7	1,590.6	1,590.8	0.21	-0.12	-11.00
8,044.0	1.10	98.70	7,794.3	20.5	1,593.0	1,593.1	0.45	0.17	-25.98
8,219.0	0.90	77.10	7,969.3	20.6	1,596.0	1,596.1	0.24	-0.11	-12.34
8,393.0	0.90	80.00	8,143.2	21.1	1,598.6	1,598.8	0.03	0.00	1.67
8,568.0	1.00	80.30	8,318.2	21.6	1,601.5	1,601.7	0.06	0.06	0.17
8,600.0	1.00	85.70	8,350.2	21.7	1,602.1	1,602.2	0.29	0.00	16.88
8,650.0	1.00	85.70	8,400.2	21.7	1,602.9	1,603.1	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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