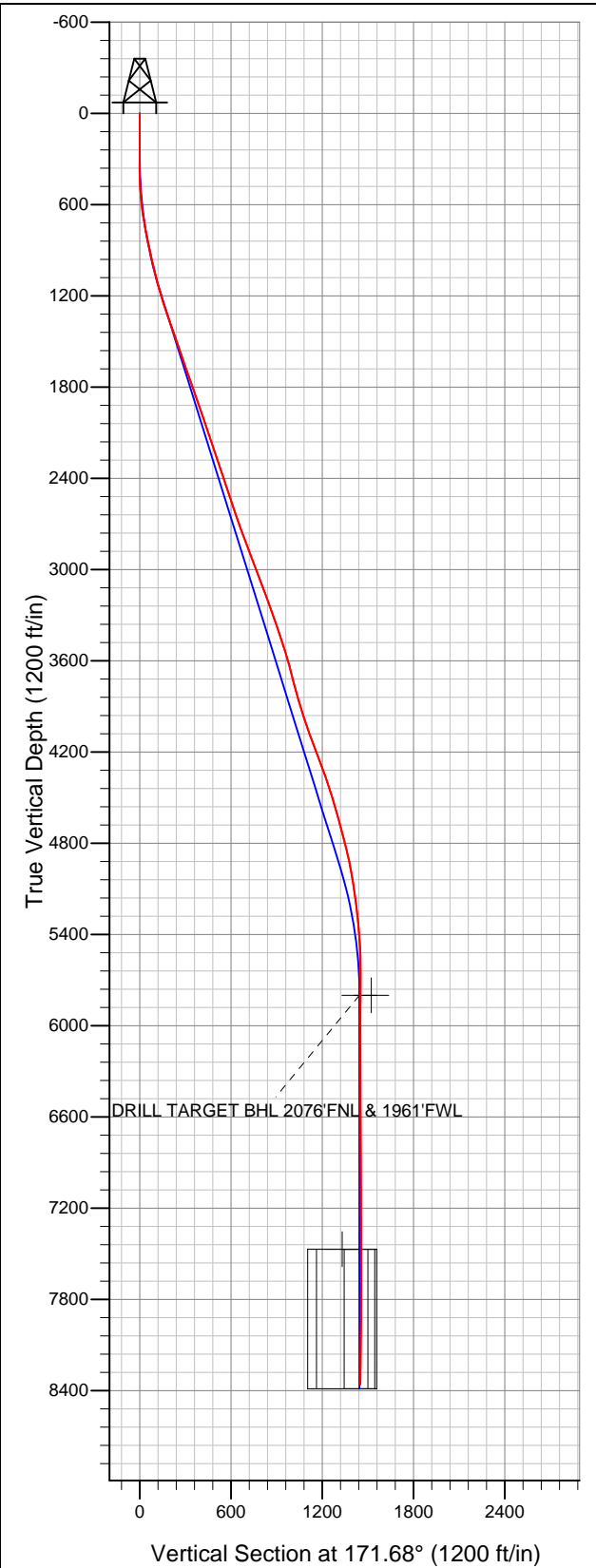


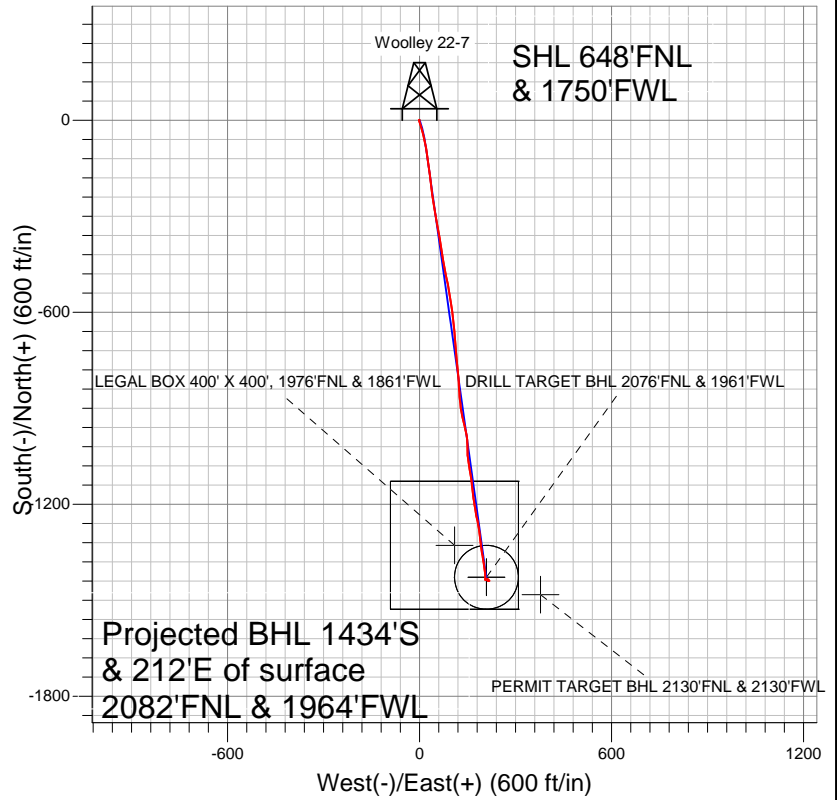
Well Name: Woolley 22-7

Surface Location: Woolley 4-0-7 Pad Sec.7-T1N-R68W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 5059.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1269111.18	3126160.80	40.071220	-105.049200	
		Original Well Elev	WELL @ 5072.0ft (Original Well Elev)			



EnCana Oil & Gas Weld County CO



LEGEND

- Survey #1
- + Woolley 22-7, Wellbore #1, Plan #1 (3-13-12) R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 8582'MD & 8359'TVD @ 1450'VS
 0.80 deg Inc 16.30 deg AZ

Project: SEC.7-T1N-R68W
 Site: Woolley 4-0-7 Pad Sec.7-T1N-R68W
 Well: Woolley 22-7
 Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.7-T1N-R68W

Woolley 4-0-7 Pad Sec.7-T1N-R68W

Woolley 22-7

Wellbore #1

Survey: Survey #1

Standard Survey Report

19 March, 2012

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
	71.0	0.10	131.40	71.0	0.0	0.0	0.0	0.14	0.14	0.00
	163.0	0.10	323.70	163.0	0.0	0.1	0.0	0.22	0.00	-182.28
	254.0	0.50	327.40	254.0	0.4	-0.2	-0.4	0.44	0.44	4.07
	345.0	0.70	278.90	345.0	0.8	-1.0	-0.9	0.58	0.22	-53.30
	437.0	1.90	189.40	437.0	-0.6	-1.8	0.4	2.19	1.30	-97.28
	529.0	4.40	156.20	528.8	-5.4	-0.6	5.2	3.26	2.72	-36.09
	621.0	7.40	166.00	620.3	-14.3	2.3	14.5	3.43	3.26	10.65
	712.0	9.90	162.70	710.3	-27.5	6.0	28.1	2.80	2.75	-3.63
	804.0	11.40	167.30	800.7	-43.9	10.4	45.0	1.87	1.63	5.00
	811.0	11.60	167.80	807.6	-45.3	10.7	46.4	3.19	2.86	7.14
	902.0	12.00	163.90	896.6	-63.3	15.2	64.9	0.98	0.44	-4.29
	989.0	12.60	167.60	981.7	-81.3	19.8	83.3	1.14	0.69	4.25

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Woolley 22-7
Project:	SEC.7-T1N-R68W	TVD Reference:	WELL @ 5072.0ft (Original Well Elev)
Site:	Woolley 4-0-7 Pad Sec.7-T1N-R68W	MD Reference:	WELL @ 5072.0ft (Original Well Elev)
Well:	Woolley 22-7	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)	
1,076.0	13.90	172.20	1,066.3	-100.9	23.2	103.2	1.92	1.49	5.29	
1,164.0	16.40	173.80	1,151.3	-123.7	26.0	126.2	2.88	2.84	1.82	
1,251.0	17.90	173.20	1,234.4	-149.2	28.9	151.8	1.74	1.72	-0.69	
1,338.0	18.60	173.80	1,317.0	-176.3	32.0	179.1	0.83	0.80	0.69	
1,426.0	19.00	172.20	1,400.3	-204.4	35.4	207.4	0.74	0.45	-1.82	
1,513.0	19.60	171.80	1,482.4	-232.9	39.5	236.2	0.71	0.69	-0.46	
1,600.0	18.90	171.50	1,564.6	-261.3	43.6	264.8	0.81	-0.80	-0.34	
1,687.0	19.00	169.40	1,646.9	-289.1	48.3	293.1	0.79	0.11	-2.41	
1,775.0	19.60	169.60	1,729.9	-317.7	53.6	322.1	0.69	0.68	0.23	
1,862.0	19.50	168.00	1,811.9	-346.3	59.3	351.2	0.63	-0.11	-1.84	
1,949.0	19.10	173.60	1,894.0	-374.6	63.9	379.9	2.18	-0.46	6.44	
2,037.0	18.70	171.80	1,977.3	-402.9	67.5	408.4	0.80	-0.45	-2.05	
2,124.0	17.80	168.00	2,059.9	-429.7	72.2	435.7	1.71	-1.03	-4.37	
2,211.0	18.60	169.40	2,142.5	-456.4	77.5	462.8	1.05	0.92	1.61	
2,299.0	19.50	168.90	2,225.7	-484.6	83.0	491.5	1.04	1.02	-0.57	
2,386.0	19.20	169.70	2,307.8	-512.9	88.3	520.3	0.46	-0.34	0.92	
2,473.0	18.50	171.50	2,390.1	-540.6	92.9	548.4	1.05	-0.80	2.07	
2,560.0	18.60	171.30	2,472.6	-568.0	97.0	576.1	0.14	0.11	-0.23	
2,648.0	18.20	172.50	2,556.1	-595.5	101.0	603.8	0.63	-0.45	1.36	
2,735.0	18.60	171.10	2,638.7	-622.7	104.9	631.3	0.69	0.46	-1.61	
2,822.0	19.70	175.40	2,720.9	-651.0	108.2	659.8	2.06	1.26	4.94	
2,910.0	20.80	176.80	2,803.4	-681.4	110.3	690.2	1.37	1.25	1.59	
2,997.0	21.00	174.80	2,884.7	-712.3	112.5	721.1	0.85	0.23	-2.30	
3,084.0	20.50	175.40	2,966.1	-743.0	115.2	751.9	0.62	-0.57	0.69	
3,172.0	20.60	173.10	3,048.5	-773.8	118.3	782.7	0.92	0.11	-2.61	
3,259.0	20.70	175.00	3,129.9	-804.3	121.5	813.4	0.78	0.11	2.18	
3,346.0	20.40	178.20	3,211.3	-834.8	123.3	843.8	1.34	-0.34	3.68	
3,433.0	20.00	175.40	3,293.0	-864.7	124.9	873.7	1.20	-0.46	-3.22	
3,521.0	18.20	171.10	3,376.2	-893.3	128.3	902.5	2.59	-2.05	-4.89	
3,608.0	17.90	169.90	3,458.9	-919.9	132.7	929.4	0.55	-0.34	-1.38	
3,695.0	17.80	166.00	3,541.7	-946.0	138.3	956.0	1.38	-0.11	-4.48	
3,783.0	15.70	166.90	3,625.9	-970.6	144.2	981.3	2.40	-2.39	1.02	
3,870.0	13.80	173.80	3,710.1	-992.4	148.0	1,003.4	2.97	-2.18	7.93	
3,957.0	15.30	179.20	3,794.3	-1,014.2	149.3	1,025.1	2.32	1.72	6.21	
4,045.0	17.30	178.90	3,878.8	-1,038.9	149.7	1,049.6	2.27	2.27	-0.34	
4,132.0	17.50	170.40	3,961.8	-1,064.7	152.2	1,075.5	2.93	0.23	-9.77	
4,219.0	19.10	170.10	4,044.4	-1,091.7	156.8	1,102.9	1.84	1.84	-0.34	
4,306.0	20.60	172.40	4,126.2	-1,120.9	161.3	1,132.4	1.94	1.72	2.64	
4,394.0	20.80	173.90	4,208.5	-1,151.7	165.0	1,163.5	0.64	0.23	1.70	
4,481.0	20.80	172.00	4,289.9	-1,182.4	168.8	1,194.4	0.78	0.00	-2.18	
4,568.0	18.80	170.80	4,371.7	-1,211.5	173.1	1,223.8	2.35	-2.30	-1.38	
4,656.0	17.00	169.00	4,455.5	-1,238.2	177.9	1,250.9	2.14	-2.05	-2.05	
4,743.0	16.90	169.00	4,538.7	-1,263.1	182.7	1,276.2	0.11	-0.11	0.00	
4,830.0	15.80	171.10	4,622.2	-1,287.2	186.9	1,300.7	1.44	-1.26	2.41	
4,918.0	15.50	175.00	4,706.9	-1,310.7	189.8	1,324.4	1.24	-0.34	4.43	
5,005.0	14.30	172.70	4,791.0	-1,333.0	192.2	1,346.7	1.54	-1.38	-2.64	
5,092.0	12.60	170.10	4,875.6	-1,353.0	195.2	1,367.0	2.07	-1.95	-2.99	
5,179.0	10.70	171.10	4,960.8	-1,370.3	198.1	1,384.5	2.20	-2.18	1.15	
5,267.0	9.10	171.30	5,047.5	-1,385.2	200.4	1,399.7	1.82	-1.82	0.23	
5,354.0	8.20	171.50	5,133.5	-1,398.2	202.4	1,412.7	1.04	-1.03	0.23	
5,441.0	7.10	173.80	5,219.7	-1,409.7	203.9	1,424.3	1.31	-1.26	2.64	
5,529.0	5.70	175.90	5,307.2	-1,419.4	204.8	1,434.1	1.61	-1.59	2.39	
5,616.0	4.30	180.30	5,393.8	-1,427.0	205.0	1,441.7	1.67	-1.61	5.06	
5,703.0	3.30	173.20	5,480.6	-1,432.8	205.3	1,447.4	1.27	-1.15	-8.16	

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Well:	Woolley 22-7	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)
5,791.0	1.40	136.00	5,568.6	-1,436.0	206.4	1,450.8	2.66	-2.16	-42.27
5,878.0	1.10	271.00	5,655.5	-1,436.8	206.3	1,451.5	2.66	-0.34	155.17
6,021.1	0.26	141.46	5,798.7	-1,437.0	205.1	1,451.6	0.89	-0.59	-90.50
PERMIT TARGET BHL 2130'FNL & 2130'FWL									
6,022.4	0.27	139.82	5,800.0	-1,437.0	205.1	1,451.6	0.89	0.68	-127.04
DRILL TARGET BHL 2076'FNL & 1961'FWL									
6,052.0	0.50	120.00	5,829.5	-1,437.1	205.3	1,451.7	0.89	0.79	-67.02
6,227.0	0.50	41.60	6,004.5	-1,437.0	206.4	1,451.7	0.36	0.00	-44.80
6,402.0	0.80	75.50	6,179.5	-1,436.1	208.1	1,451.1	0.27	0.17	19.37
6,576.0	0.40	60.00	6,353.5	-1,435.5	209.8	1,450.7	0.25	-0.23	-8.91
6,751.0	0.40	80.00	6,528.5	-1,435.1	211.0	1,450.5	0.08	0.00	11.43
6,925.0	0.50	100.10	6,702.5	-1,435.1	212.3	1,450.7	0.11	0.06	11.55
7,100.0	0.60	105.20	6,877.5	-1,435.5	213.9	1,451.3	0.06	0.06	2.91
7,275.0	1.30	133.80	7,052.5	-1,437.1	216.3	1,453.2	0.47	0.40	16.34
7,449.0	0.40	156.20	7,226.4	-1,439.0	217.9	1,455.4	0.54	-0.52	12.87
7,624.0	1.10	262.70	7,401.4	-1,439.8	216.5	1,455.9	0.73	0.40	60.86
7,692.6	0.86	261.90	7,470.1	-1,439.9	215.3	1,455.9	0.35	-0.35	-1.16
TARGET CIRCLE 2076'FNL & 1961'FWL									
7,693.6	0.86	261.89	7,471.0	-1,439.9	215.3	1,455.9	0.35	-0.35	-1.49
LEGAL BOX 400' X 400', 1976'FNL & 1861'FWL									
7,798.0	0.50	259.20	7,575.4	-1,440.1	214.1	1,455.9	0.35	-0.34	-2.57
7,973.0	0.40	316.50	7,750.4	-1,439.8	212.9	1,455.5	0.25	-0.06	32.74
8,148.0	0.40	346.60	7,925.4	-1,438.8	212.4	1,454.4	0.12	0.00	17.20
8,322.0	0.60	338.00	8,099.4	-1,437.3	211.9	1,452.9	0.12	0.11	-4.94
8,496.0	0.70	357.00	8,273.4	-1,435.4	211.5	1,450.9	0.14	0.06	10.92
8,532.0	0.80	16.30	8,309.4	-1,435.0	211.5	1,450.5	0.75	0.28	53.61
8,582.0	0.80	16.30	8,359.4	-1,434.3	211.7	1,449.9	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____