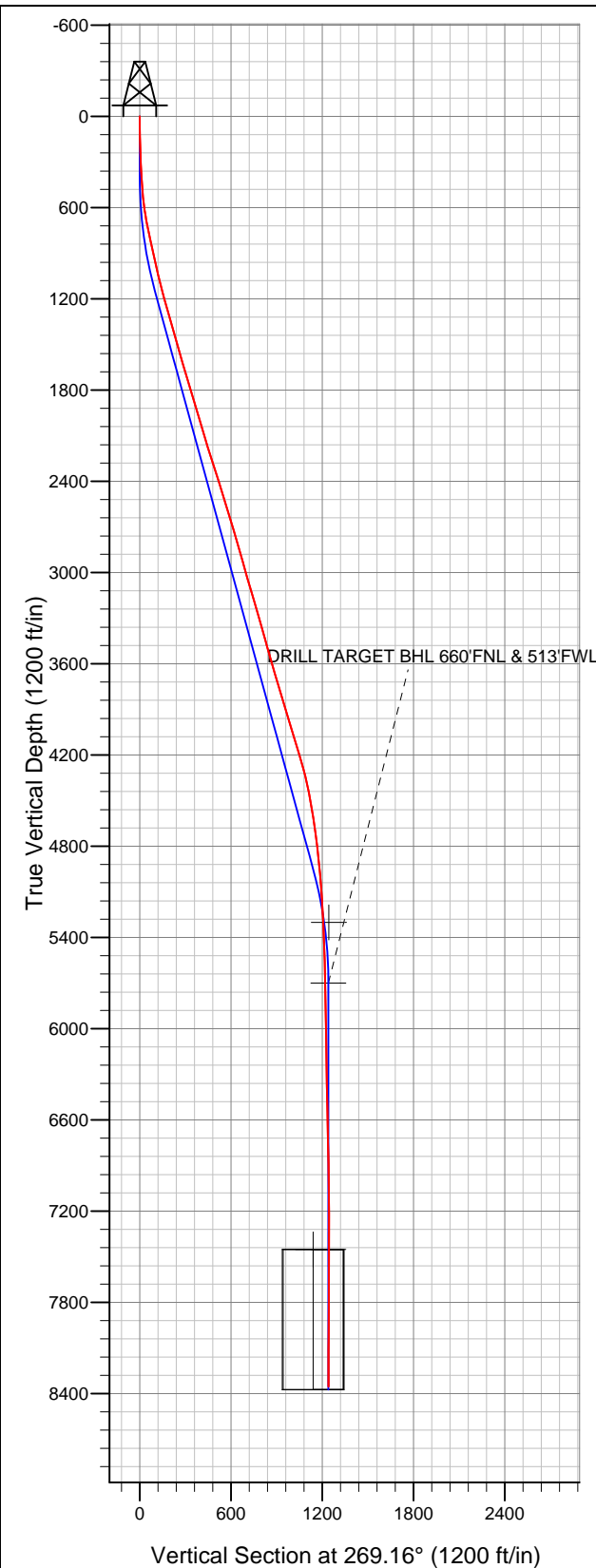


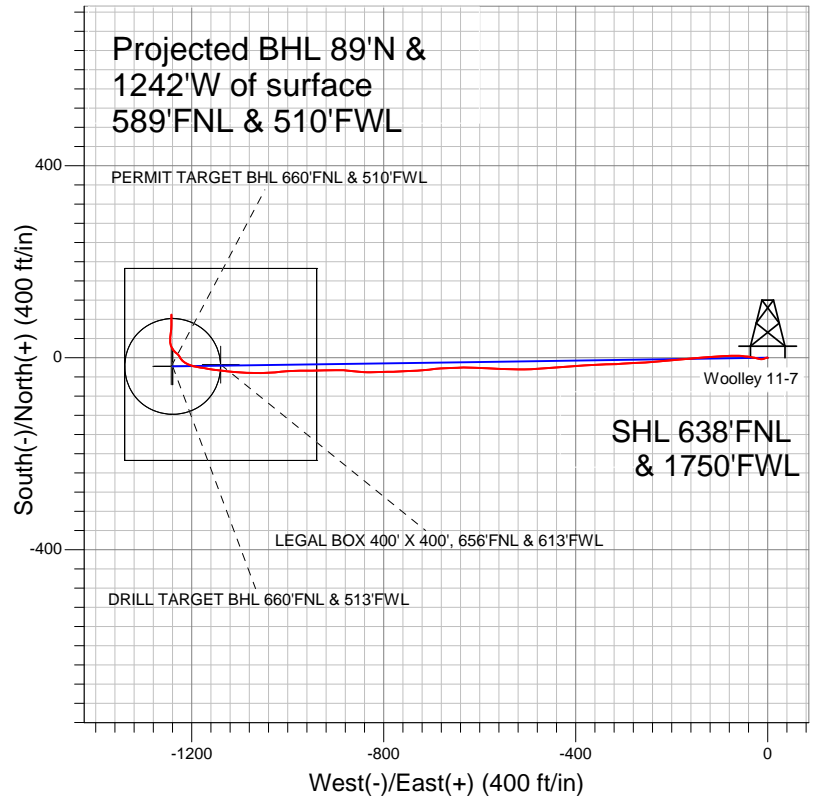
Well Name: Woolley 11-7

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

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1269122.11	3126160.75	40.071250	-105.049200	
		Original Well Elev	WELL @ 5072.0ft (Original Well Elev)			



EnCana Oil & Gas Weld County CO



LEGEND

- Survey #1
- Woolley 11-7, Wellbore #1, Plan #1 (3-5-12) R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
8515'MD & 8353'TVD @ 1241'VS
3.30 deg Inc 359.90 deg AZ

Project: SEC.7-T1N-R68W
Site: Woolley 4-0-7 Pad Sec.7-T1N-R68W
Well: Woolley 11-7
Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.7-T1N-R68W

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

Woolley 11-7

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 March, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Woolley 11-7
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 11-7	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.7-T1N-R68WW, Weld County, CO		
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		Woolley 4-0-7 Pad Sec.7-T1N-R68W			
Site Position:		Northing:	1,269,133.05 ft	Latitude:	40.071280
From:	Lat/Long	Easting:	3,126,160.69 ft	Longitude:	-105.049200
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.29 °

Well	Woolley 11-7					
Well Position	+N/-S	0.0 ft	Northing:	1,269,122.11 ft	Latitude:	40.071250
	+E/-W	0.0 ft	Easting:	3,126,160.75 ft	Longitude:	-105.049200
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,059.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/5/2012	8.89	66.71	52,849

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 (°)	
	5,700.0	0.0	0.0	269.16	

Survey Program		Date	3/15/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
132.0	8,515.0	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 Wellbore	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	132.0	1.10	263.40	132.0	-0.1	-1.3	1.3	0.83	0.83	0.00
	223.0	1.70	255.50	223.0	-0.6	-3.4	3.4	0.69	0.66	-8.68
	315.0	2.50	249.90	314.9	-1.6	-6.6	6.7	0.90	0.87	-6.09
	407.0	3.80	260.80	406.8	-2.8	-11.5	11.6	1.55	1.41	11.85
	498.0	4.70	283.80	497.5	-2.4	-18.1	18.2	2.10	0.99	25.27
	590.0	7.50	282.90	589.0	-0.1	-27.6	27.6	3.05	3.04	-0.98
	681.0	10.50	277.80	678.9	2.3	-41.7	41.6	3.41	3.30	-5.60
	773.0	12.30	272.40	769.0	3.9	-59.8	59.7	2.27	1.96	-5.87
	786.0	12.40	271.50	781.7	3.9	-62.5	62.5	1.67	0.77	-6.92
	850.0	12.50	270.00	844.2	4.1	-76.3	76.3	0.53	0.16	-2.34
	858.0	12.80	266.80	852.0	4.1	-78.1	78.0	9.53	3.75	-40.00
	946.0	12.10	267.80	938.0	3.2	-97.0	97.0	0.83	-0.80	1.14

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Woolley 11-7
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 11-7	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)	
1,033.0	13.00	265.00	1,022.9	2.0	-115.9	115.8	1.25	1.03	-3.22	
1,120.0	14.10	265.20	1,107.5	0.2	-136.2	136.2	1.27	1.26	0.23	
1,207.0	15.50	264.30	1,191.6	-1.8	-158.3	158.3	1.63	1.61	-1.03	
1,295.0	16.10	267.30	1,276.3	-3.5	-182.2	182.2	1.15	0.68	3.41	
1,382.0	15.90	263.40	1,359.9	-5.5	-206.1	206.2	1.26	-0.23	-4.48	
1,469.0	16.40	264.50	1,443.5	-8.0	-230.2	230.3	0.67	0.57	1.26	
1,557.0	16.40	267.10	1,527.9	-9.8	-254.9	255.1	0.83	0.00	2.95	
1,644.0	15.60	267.50	1,611.5	-11.0	-278.9	279.0	0.93	-0.92	0.46	
1,731.0	15.80	265.50	1,695.3	-12.4	-302.4	302.5	0.66	0.23	-2.30	
1,819.0	17.00	268.70	1,779.7	-13.7	-327.2	327.4	1.71	1.36	3.64	
1,906.0	17.40	267.60	1,862.8	-14.5	-352.9	353.1	0.59	0.46	-1.26	
1,993.0	17.30	268.00	1,945.8	-15.5	-378.8	379.0	0.18	-0.11	0.46	
2,080.0	16.40	262.70	2,029.1	-17.5	-403.9	404.2	2.05	-1.03	-6.09	
2,168.0	15.50	267.10	2,113.7	-19.7	-428.0	428.3	1.71	-1.02	5.00	
2,255.0	17.70	267.30	2,197.1	-20.9	-452.8	453.1	2.53	2.53	0.23	
2,342.0	18.10	264.10	2,279.9	-22.9	-479.5	479.8	1.22	0.46	-3.68	
2,430.0	17.90	269.40	2,363.6	-24.4	-506.6	506.9	1.87	-0.23	6.02	
2,517.0	17.20	272.60	2,446.5	-24.0	-532.8	533.1	1.37	-0.80	3.68	
2,604.0	16.70	271.70	2,529.7	-23.0	-558.2	558.5	0.65	-0.57	-1.03	
2,692.0	16.80	273.30	2,614.0	-21.9	-583.5	583.8	0.54	0.11	1.82	
2,779.0	17.00	271.90	2,697.3	-20.8	-608.8	609.0	0.52	0.23	-1.61	
2,866.0	16.60	269.70	2,780.5	-20.4	-633.9	634.1	0.86	-0.46	-2.53	
2,953.0	15.80	266.40	2,864.1	-21.2	-658.2	658.4	1.40	-0.92	-3.79	
3,041.0	15.60	267.60	2,948.8	-22.5	-681.9	682.2	0.43	-0.23	1.36	
3,128.0	16.20	262.20	3,032.5	-24.6	-705.7	705.9	1.83	0.69	-6.21	
3,215.0	16.60	267.50	3,115.9	-26.8	-730.1	730.4	1.78	0.46	6.09	
3,303.0	16.70	266.40	3,200.3	-28.2	-755.3	755.6	0.38	0.11	-1.25	
3,390.0	16.40	269.70	3,283.7	-29.0	-780.0	780.4	1.13	-0.34	3.79	
3,477.0	15.60	266.90	3,367.3	-29.7	-804.0	804.3	1.28	-0.92	-3.22	
3,565.0	14.90	269.90	3,452.2	-30.4	-827.1	827.5	1.20	-0.80	3.41	
3,652.0	16.40	275.60	3,536.0	-29.2	-850.5	850.9	2.47	1.72	6.55	
3,739.0	16.70	275.60	3,619.4	-26.8	-875.2	875.5	0.34	0.34	0.00	
3,826.0	15.90	268.70	3,702.9	-25.8	-899.6	899.8	2.41	-0.92	-7.93	
3,914.0	16.30	268.50	3,787.4	-26.4	-923.9	924.2	0.46	0.45	-0.23	
4,001.0	16.50	270.30	3,870.9	-26.7	-948.5	948.8	0.63	0.23	2.07	
4,088.0	17.50	269.00	3,954.1	-26.8	-973.9	974.2	1.23	1.15	-1.49	
4,176.0	17.10	266.10	4,038.1	-27.9	-1,000.1	1,000.4	1.08	-0.45	-3.30	
4,263.0	16.70	262.90	4,121.3	-30.4	-1,025.2	1,025.6	1.16	-0.46	-3.68	
4,350.0	16.90	270.60	4,204.6	-31.8	-1,050.3	1,050.7	2.57	0.23	8.85	
4,438.0	15.30	270.80	4,289.2	-31.5	-1,074.7	1,075.0	1.82	-1.82	0.23	
4,525.0	12.80	272.90	4,373.6	-30.8	-1,095.8	1,096.1	2.93	-2.87	2.41	
4,612.0	10.90	275.20	4,458.7	-29.6	-1,113.6	1,113.9	2.25	-2.18	2.64	
4,699.0	9.60	276.10	4,544.3	-28.1	-1,129.0	1,129.3	1.51	-1.49	1.03	
4,787.0	8.40	276.90	4,631.2	-26.5	-1,142.7	1,143.0	1.37	-1.36	0.91	
4,874.0	7.70	278.00	4,717.4	-24.9	-1,154.8	1,155.0	0.82	-0.80	1.26	
4,961.0	6.80	281.20	4,803.7	-23.1	-1,165.6	1,165.8	1.13	-1.03	3.68	
5,049.0	6.00	280.10	4,891.1	-21.3	-1,175.3	1,175.4	0.92	-0.91	-1.25	
5,136.0	5.60	277.80	4,977.7	-19.9	-1,183.9	1,184.1	0.53	-0.46	-2.64	
5,223.0	4.80	279.60	5,064.3	-18.8	-1,191.7	1,191.9	0.94	-0.92	2.07	
5,311.0	3.80	289.80	5,152.1	-17.2	-1,198.1	1,198.2	1.43	-1.14	11.59	
5,398.0	3.30	291.90	5,238.9	-15.2	-1,203.1	1,203.2	0.59	-0.57	2.41	
5,460.8	2.65	293.27	5,301.6	-14.0	-1,206.1	1,206.2	1.04	-1.04	2.19	
PERMIT TARGET BHL 660'FNL & 510'FWL										
5,485.0	2.40	294.00	5,325.8	-13.6	-1,207.1	1,207.2	1.04	-1.03	3.00	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Woolley 11-7
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Site:	Woolley 4-0-7 Pad Sec.7-T1N-R68W	MD Reference:	WELL @ 5072.0ft (Original Well Elev)
Well:	Woolley 11-7	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)	
5,660.0	2.10	295.80	5,500.7	-10.7	-1,213.4	1,213.4	0.18	-0.17	1.03	
5,834.0	2.20	317.90	5,674.6	-6.8	-1,218.5	1,218.4	0.48	0.06	12.70	
5,859.6	2.16	317.75	5,700.2	-6.1	-1,219.1	1,219.1	0.17	-0.17	-0.60	
DRILL TARGET BHL 660'FNL & 513'FWL										
6,009.0	1.90	316.70	5,849.4	-2.2	-1,222.7	1,222.6	0.17	-0.17	-0.70	
6,184.0	1.10	342.70	6,024.4	1.5	-1,225.2	1,225.0	0.59	-0.46	14.86	
6,358.0	1.30	320.60	6,198.4	4.6	-1,226.9	1,226.7	0.29	0.11	-12.70	
6,533.0	1.70	317.20	6,373.3	8.1	-1,230.0	1,229.7	0.23	0.23	-1.94	
6,707.0	1.80	305.80	6,547.2	11.5	-1,233.9	1,233.6	0.21	0.06	-6.55	
6,882.0	1.80	320.40	6,722.1	15.3	-1,237.9	1,237.6	0.26	0.00	8.34	
7,057.0	1.80	329.30	6,897.0	19.8	-1,241.1	1,240.7	0.16	0.00	5.09	
7,231.0	1.70	341.50	7,071.0	24.6	-1,243.3	1,242.8	0.22	-0.06	7.01	
7,406.0	1.40	341.80	7,245.9	29.0	-1,244.8	1,244.2	0.17	-0.17	0.17	
7,580.0	1.60	5.60	7,419.8	33.5	-1,245.2	1,244.6	0.37	0.11	13.68	
7,610.7	1.63	6.06	7,450.5	34.3	-1,245.1	1,244.5	0.12	0.11	1.51	
TARGET CIRCLE 660'FNL & 513'FWL										
7,611.1	1.64	6.07	7,450.9	34.4	-1,245.1	1,244.5	0.12	0.11	1.48	
LEGAL BOX 400' X 400', 656'FNL & 613'FWL										
7,755.0	1.80	8.00	7,594.8	38.6	-1,244.6	1,243.9	0.12	0.11	1.34	
7,930.0	3.70	3.10	7,769.5	47.0	-1,243.9	1,243.1	1.09	1.09	-2.80	
8,104.0	5.50	4.70	7,943.0	60.9	-1,242.9	1,241.9	1.04	1.03	0.92	
8,279.0	3.90	0.50	8,117.4	75.2	-1,242.2	1,240.9	0.93	-0.91	-2.40	
8,453.0	3.20	0.10	8,291.1	86.0	-1,242.1	1,240.7	0.40	-0.40	-0.23	
8,465.0	3.30	359.90	8,303.0	86.7	-1,242.1	1,240.7	0.84	0.83	-1.67	
8,515.0	3.30	359.90	8,353.0	89.6	-1,242.1	1,240.7	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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