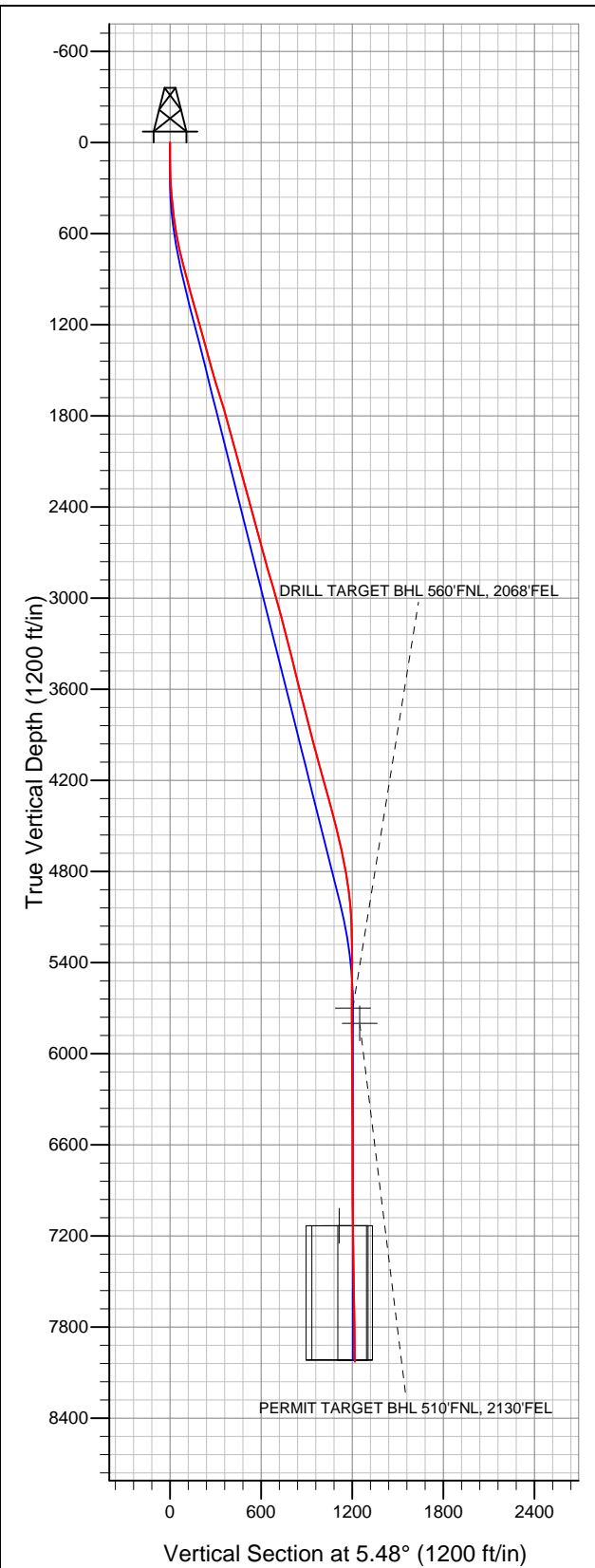


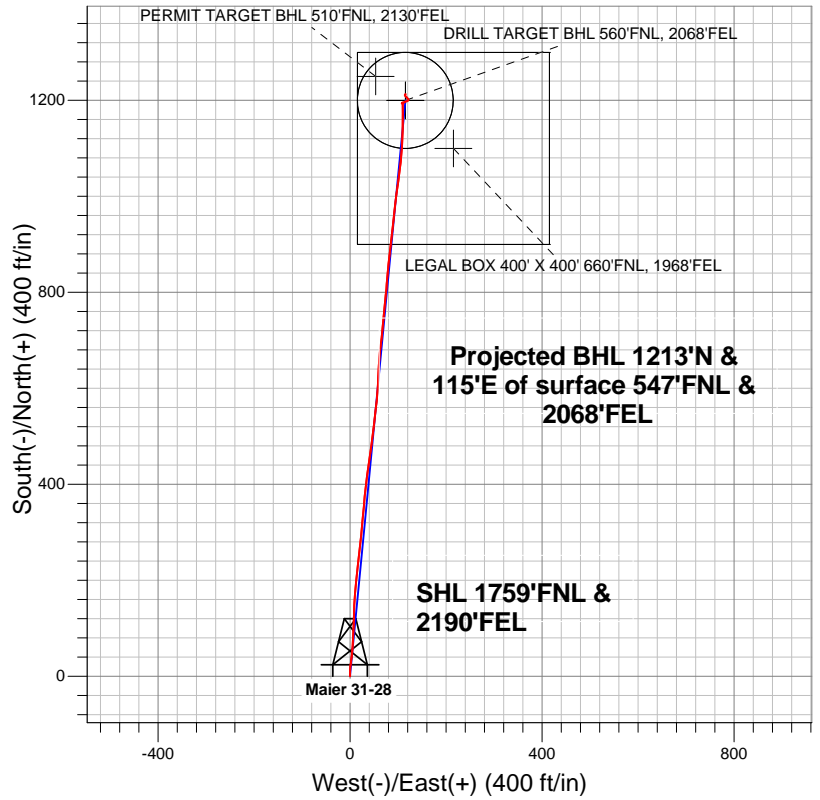
Well Name: Maier 31-28

Surface Location: Maier 31-28 Pad Sec.28-T2N-R66W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4931.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1284297.93	3201199.44	40.111550	-104.780640	
Original Well Elev			WELL @ 4943.0ft (Original Well Elev)			



EnCana Oil & Gas Weld County CO



LEGEND

- Wellbore #1
- Maier 31-28, Wellbore #1, Plan #2 (7-03-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 8180'MD & 8028'TVD @ 1218'VS
 1.10 deg Inc 44.10 deg AZ

Project: SEC.28-T2N-R66W
 Site: Maier 31-28 Pad Sec.28-T2N-R66W
 Well: Maier 31-28
 Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.28-T2N-R66W

Maier 31-28 Pad Sec.28-T2N-R66W

Maier 31-28

Wellbore #1

Survey: Survey #1

Standard Survey Report

13 July, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 31-28
Project:	SEC.28-T2N-R66W	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	Maier 31-28 Pad Sec.28-T2N-R66W	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Well:	Maier 31-28	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.28-T2N-R66W		
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		Maier 31-28 Pad Sec.28-T2N-R66W			
Site Position:		Northing:	1,284,297.93ft	Latitude:	40.111550
From:	Lat/Long	Easting:	3,201,199.44ft	Longitude:	-104.780640
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.46 °

Well	Maier 31-28					
Well Position	+N/-S	0.0 ft	Northing:	1,284,297.93 ft	Latitude:	40.111550
	+E/-W	0.0 ft	Easting:	3,201,199.44 ft	Longitude:	-104.780640
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,931.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/3/2012	8.71	66.78	52,866

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	5.48	

Survey Program		Date	7/12/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
93.0	8,180.0	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
	93.0	0.40	23.70	93.0	0.3	0.1	0.3	0.43	0.43	0.00
	185.0	1.30	355.00	185.0	1.6	0.2	1.6	1.05	0.98	-31.20
	277.0	3.80	356.80	276.9	5.7	-0.1	5.7	2.72	2.72	1.96
	368.0	5.10	4.50	367.6	12.8	0.1	12.7	1.57	1.43	8.46
	460.0	6.50	6.60	459.1	22.0	1.0	22.0	1.54	1.52	2.28
	551.0	8.70	7.80	549.3	33.9	2.5	34.0	2.42	2.42	1.32
	643.0	10.60	5.70	640.0	49.3	4.3	49.4	2.10	2.07	-2.28
	736.0	13.10	2.70	731.0	68.3	5.6	68.5	2.77	2.69	-3.23
	830.0	14.90	2.70	822.2	91.0	6.7	91.2	1.91	1.91	0.00
	881.0	15.50	2.70	871.5	104.4	7.3	104.6	1.18	1.18	0.00
	953.0	15.20	1.50	940.9	123.4	8.0	123.6	0.61	-0.42	-1.67
	1,047.0	15.00	2.60	1,031.6	147.9	8.9	148.1	0.37	-0.21	1.17

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 31-28
Project:	SEC.28-T2N-R66W	TVD Reference:	WELL @ 4943.0ft (Original Well Elev)
Site:	Maier 31-28 Pad Sec.28-T2N-R66W	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Well:	Maier 31-28	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)	
1,141.0	15.70	5.20	1,122.3	172.7	10.6	172.9	1.04	0.74	2.77	
1,234.0	15.70	4.50	1,211.8	197.8	12.7	198.1	0.20	0.00	-0.75	
1,328.0	14.90	7.10	1,302.5	222.5	15.2	222.9	1.12	-0.85	2.77	
1,422.0	15.70	6.60	1,393.2	247.1	18.2	247.7	0.86	0.85	-0.53	
1,515.0	15.80	6.40	1,482.7	272.2	21.0	272.9	0.12	0.11	-0.22	
1,609.0	16.60	5.20	1,572.9	298.3	23.7	299.2	0.92	0.85	-1.28	
1,703.0	17.50	5.00	1,662.8	325.7	26.1	326.7	0.96	0.96	-0.21	
1,796.0	16.20	6.30	1,751.8	352.5	28.8	353.7	1.46	-1.40	1.40	
1,890.0	15.70	4.50	1,842.2	378.2	31.2	379.5	0.75	-0.53	-1.91	
1,984.0	15.00	6.30	1,932.8	403.0	33.6	404.4	0.90	-0.74	1.91	
2,077.0	15.50	8.20	2,022.6	427.3	36.6	428.8	0.76	0.54	2.04	
2,171.0	14.90	7.80	2,113.3	451.7	40.1	453.4	0.65	-0.64	-0.43	
2,265.0	15.40	8.40	2,204.0	476.0	43.5	478.0	0.56	0.53	0.64	
2,358.0	15.50	8.00	2,293.6	500.5	47.1	502.7	0.16	0.11	-0.43	
2,452.0	15.40	6.40	2,384.3	525.4	50.2	527.8	0.47	-0.11	-1.70	
2,546.0	15.70	6.30	2,474.8	550.4	53.0	553.0	0.32	0.32	-0.11	
2,639.0	15.10	5.90	2,564.5	575.0	55.6	577.7	0.66	-0.65	-0.43	
2,733.0	15.10	3.40	2,655.2	599.4	57.6	602.1	0.69	0.00	-2.66	
2,827.0	15.10	2.60	2,746.0	623.8	58.9	626.6	0.22	0.00	-0.85	
2,920.0	16.30	2.90	2,835.5	649.0	60.1	651.7	1.29	1.29	0.32	
3,014.0	16.30	6.30	2,925.7	675.2	62.2	678.1	1.02	0.00	3.62	
3,108.0	15.00	7.30	3,016.2	700.4	65.2	703.5	1.41	-1.38	1.06	
3,201.0	15.70	4.70	3,105.9	724.9	67.8	728.1	1.06	0.75	-2.80	
3,295.0	14.40	6.00	3,196.7	749.2	70.0	752.5	1.43	-1.38	1.38	
3,389.0	14.00	5.20	3,287.8	772.2	72.3	775.5	0.47	-0.43	-0.85	
3,482.0	14.70	5.90	3,377.9	795.1	74.5	798.6	0.78	0.75	0.75	
3,576.0	13.60	3.80	3,469.1	818.0	76.5	821.5	1.29	-1.17	-2.23	
3,670.0	14.10	4.90	3,560.3	840.4	78.2	844.0	0.60	0.53	1.17	
3,763.0	14.50	7.10	3,650.5	863.3	80.6	867.0	0.73	0.43	2.37	
3,857.0	14.20	7.00	3,741.5	886.4	83.5	890.3	0.32	-0.32	-0.11	
3,951.0	14.30	5.60	3,832.6	909.4	86.0	913.4	0.38	0.11	-1.49	
4,044.0	14.20	6.40	3,922.8	932.1	88.4	936.3	0.24	-0.11	0.86	
4,138.0	15.60	5.90	4,013.6	956.2	91.0	960.5	1.50	1.49	-0.53	
4,232.0	14.80	7.30	4,104.3	980.7	93.8	985.1	0.94	-0.85	1.49	
4,325.0	15.90	7.50	4,194.0	1,005.1	97.0	1,009.7	1.18	1.18	0.22	
4,419.0	15.60	7.30	4,284.5	1,030.4	100.3	1,035.2	0.32	-0.32	-0.21	
4,513.0	14.60	6.60	4,375.2	1,054.7	103.2	1,059.7	1.08	-1.06	-0.74	
4,606.0	14.10	6.80	4,465.3	1,077.6	105.9	1,082.8	0.54	-0.54	0.22	
4,700.0	13.80	4.10	4,556.6	1,100.1	108.1	1,105.4	0.76	-0.32	-2.87	
4,794.0	12.30	1.50	4,648.1	1,121.3	109.1	1,126.6	1.71	-1.60	-2.77	
4,887.0	12.00	359.10	4,739.0	1,140.9	109.2	1,146.1	0.63	-0.32	-2.58	
4,981.0	9.60	2.00	4,831.4	1,158.5	109.4	1,163.6	2.62	-2.55	3.09	
5,075.0	6.70	4.90	4,924.4	1,171.8	110.1	1,177.0	3.11	-3.09	3.09	
5,168.0	4.70	358.90	5,017.0	1,181.0	110.5	1,186.2	2.24	-2.15	-6.45	
5,262.0	3.50	352.90	5,110.7	1,187.7	110.1	1,192.8	1.35	-1.28	-6.38	
5,355.0	1.90	356.40	5,203.6	1,192.1	109.6	1,197.1	1.73	-1.72	3.76	
5,449.0	1.00	353.10	5,297.6	1,194.4	109.4	1,199.4	0.96	-0.96	-3.51	
5,543.0	0.20	158.10	5,391.6	1,195.1	109.4	1,200.1	1.27	-0.85	175.53	
5,636.0	0.90	244.10	5,484.6	1,194.6	108.8	1,199.6	0.98	0.75	92.47	
5,730.0	0.40	206.80	5,578.6	1,194.0	108.0	1,198.9	0.67	-0.53	-39.68	
5,824.0	0.20	176.20	5,672.6	1,193.6	107.8	1,198.4	0.27	-0.21	-32.55	
5,851.4	0.16	168.14	5,700.0	1,193.5	107.8	1,198.3	0.17	-0.14	-29.36	
DRILL TARGET BHL 560'FNL, 2068'FEL										
5,917.0	0.10	126.10	5,765.6	1,193.3	107.9	1,198.2	0.17	-0.09	-64.13	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 31-28
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Site:	Maier 31-28 Pad Sec.28-T2N-R66W	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Well:	Maier 31-28	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)
5,951.3	0.18	75.98	5,799.9	1,193.3	108.0	1,198.2	0.40	0.23	-146.01
PERMIT TARGET BHL 510'FNL, 2130'FEL									
6,011.0	0.40	56.50	5,859.6	1,193.5	108.2	1,198.4	0.40	0.37	-32.65
6,105.0	0.80	87.60	5,953.5	1,193.7	109.2	1,198.7	0.53	0.43	33.09
6,198.0	0.90	77.30	6,046.5	1,193.9	110.5	1,199.0	0.20	0.11	-11.08
6,292.0	0.90	50.60	6,140.5	1,194.5	111.8	1,199.7	0.44	0.00	-28.40
6,386.0	0.60	14.00	6,234.5	1,195.4	112.5	1,200.7	0.59	-0.32	-38.94
6,480.0	0.40	41.70	6,328.5	1,196.2	112.9	1,201.5	0.33	-0.21	29.47
6,574.0	0.30	69.20	6,422.5	1,196.5	113.3	1,201.9	0.20	-0.11	29.26
6,668.0	0.50	86.20	6,516.5	1,196.6	113.9	1,202.0	0.25	0.21	18.09
6,763.0	0.60	95.70	6,611.5	1,196.6	114.9	1,202.1	0.14	0.11	10.00
6,857.0	0.60	43.70	6,705.5	1,196.9	115.7	1,202.5	0.56	0.00	-55.32
6,951.0	0.80	60.00	6,799.5	1,197.6	116.6	1,203.2	0.30	0.21	17.34
7,046.0	1.00	87.80	6,894.5	1,198.0	118.0	1,203.7	0.50	0.21	29.26
7,140.0	0.40	60.90	6,988.5	1,198.1	119.1	1,204.0	0.71	-0.64	-28.62
7,234.0	0.50	58.50	7,082.5	1,198.5	119.7	1,204.5	0.11	0.11	-2.55
7,284.5	0.61	52.93	7,133.0	1,198.8	120.1	1,204.8	0.23	0.21	-11.04
TARGET CIRCLE 560'FNL & 2068'FEL									
7,284.7	0.61	52.91	7,133.2	1,198.8	120.1	1,204.8	0.23	0.21	-9.09
LEGAL BOX 400' X 400' 660'FNL, 1968'FEL									
7,328.0	0.70	49.50	7,176.5	1,199.1	120.5	1,205.1	0.23	0.22	-7.87
7,423.0	0.90	29.10	7,271.5	1,200.1	121.3	1,206.2	0.36	0.21	-21.47
7,517.0	1.40	330.20	7,365.4	1,201.8	121.1	1,207.8	1.29	0.53	-62.66
7,611.0	1.80	320.90	7,459.4	1,203.9	119.6	1,209.8	0.51	0.43	-9.89
7,706.0	1.70	319.70	7,554.4	1,206.1	117.8	1,211.9	0.11	-0.11	-1.26
7,800.0	1.30	312.10	7,648.3	1,207.9	116.1	1,213.5	0.47	-0.43	-8.09
7,894.0	1.00	319.70	7,742.3	1,209.3	114.7	1,214.7	0.36	-0.32	8.09
7,988.0	0.40	339.00	7,836.3	1,210.2	114.1	1,215.6	0.68	-0.64	20.53
8,083.0	1.00	25.40	7,931.3	1,211.3	114.3	1,216.6	0.82	0.63	48.84
8,135.0	1.10	44.10	7,983.3	1,212.0	114.9	1,217.5	0.68	0.19	35.96
8,180.0	1.10	44.10	8,028.3	1,212.6	115.5	1,218.1	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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