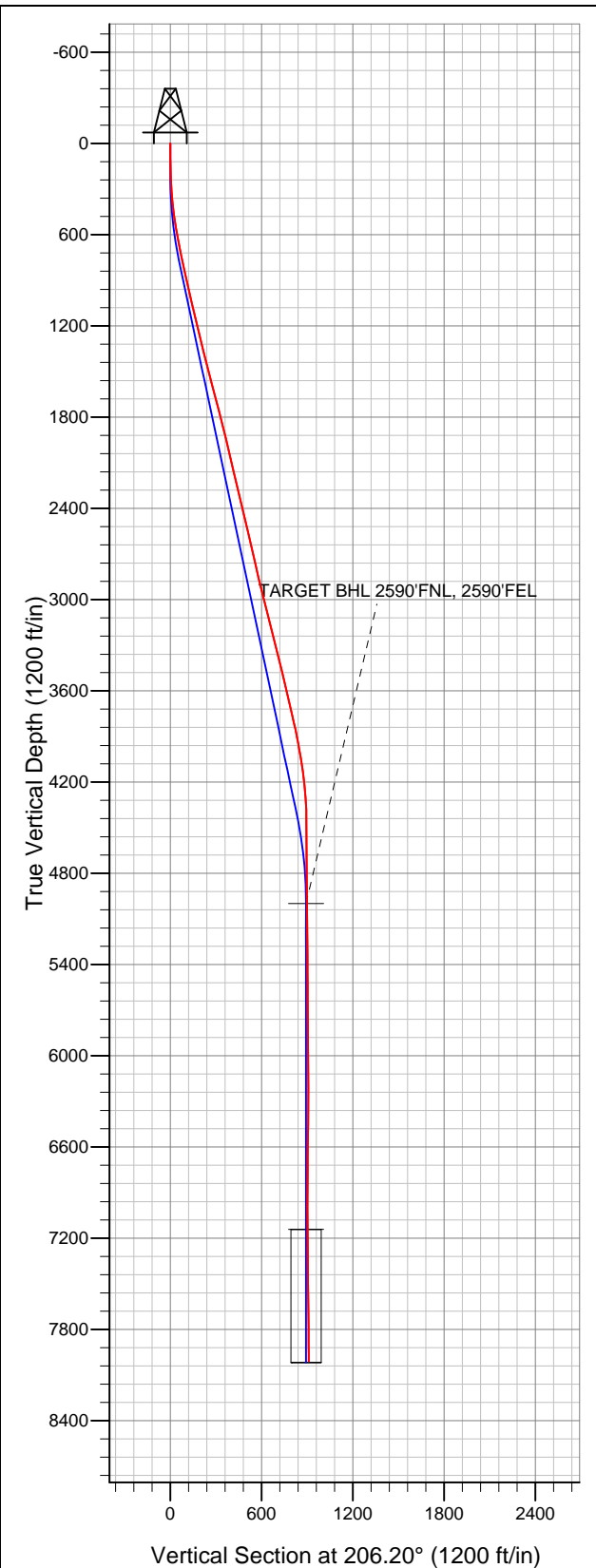


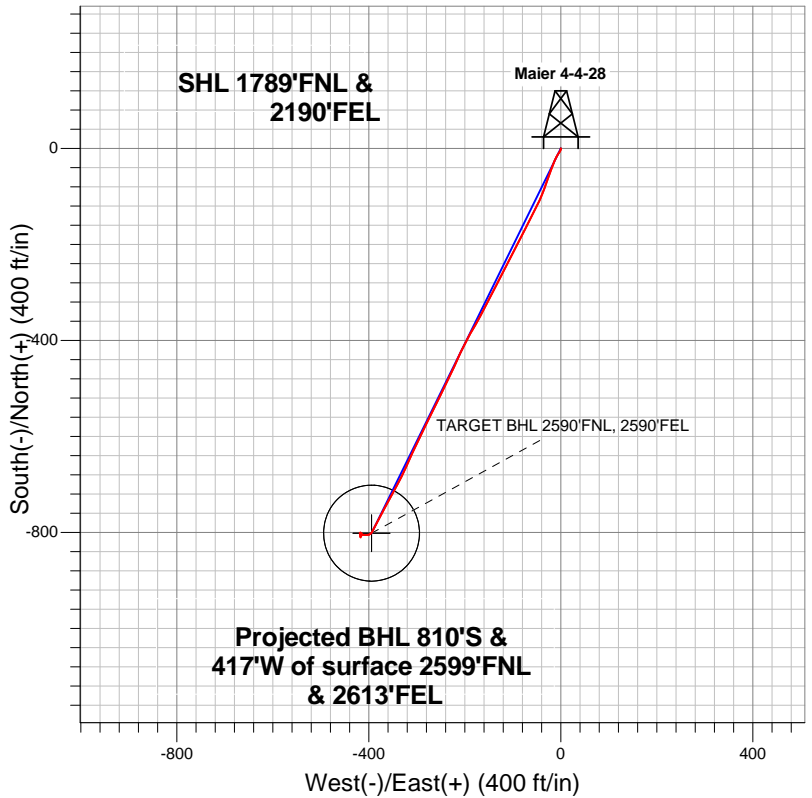
Well Name: Maier 4-4-28

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	1284268.78	3201199.67	40.111470	-104.780640	
Original Well Elev		WELL @ 4943.0ft (Original Well Elev)				



EnCana Oil & Gas Weld County CO



LEGEND

- Wellbore #1
- △ Maier 4-4-28, Wellbore #1, Plan #2 (5-08-12) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 8110'MD & 8009'TVD @ 911'VS
 1.00 deg Inc 139.50 deg AZ

Project: SEC.28-T2N-R66W
 Site: Maier 31-28 Pad Sec.28-T2N-R66W
 Well: Maier 4-4-28
 Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.28-T2N-R66W

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

Maier 4-4-28

Wellbore #1

Survey: Survey #1

Standard Survey Report

25 June, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 4-4-28
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 4-4-28	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	
From:	Lat/Long	Easting:		Longitude:	
		3,201,199.44ft		-104.780640	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.46 °	

Well	Maier 4-4-28					
Well Position	+N-S	0.0 ft	Northing:	1,284,268.78 ft	Latitude:	40.111470
	+E-W	0.0 ft	Easting:	3,201,199.67 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	5/10/2012	8.73	66.78	52,882

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 (°)	
	5,000.0	0.0	0.0	206.20	

Survey Program		Date	6/25/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
92.0	8,110.0	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)
Survey A	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	92.0	0.80	179.60	92.0	-0.6	0.0	0.6	0.87	0.87	0.00
	184.0	1.50	192.80	184.0	-2.5	-0.3	2.3	0.81	0.76	14.35
	276.0	3.30	211.20	275.9	-5.9	-1.9	6.1	2.10	1.96	20.00
	368.0	5.20	212.50	367.6	-11.7	-5.5	12.9	2.07	2.07	1.41
	460.0	7.40	208.60	459.1	-20.4	-10.6	23.0	2.43	2.39	-4.24
	551.0	9.60	199.60	549.1	-32.7	-15.9	36.4	2.82	2.42	-9.89
	642.0	11.20	201.40	638.6	-48.1	-21.7	52.7	1.79	1.76	1.98
	736.0	11.60	199.10	730.7	-65.5	-28.1	71.2	0.64	0.43	-2.45
	829.0	12.30	200.00	821.7	-83.6	-34.6	90.3	0.78	0.75	0.97
	881.0	12.40	203.10	872.5	-94.0	-38.7	101.4	1.29	0.19	5.96
	953.0	12.60	202.10	942.8	-108.4	-44.7	117.0	0.41	0.28	-1.39
1,047.0	13.20	208.20	1,034.4	-127.3	-53.6	137.9	1.58	0.64	6.49	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 4-4-28
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 4-4-28	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	13.70	208.20	1,125.9	-146.6	-63.9	159.8	0.53	0.53	0.00	
1,234.0	13.80	206.50	1,216.2	-166.2	-74.1	181.9	0.45	0.11	-1.83	
1,328.0	13.30	205.90	1,307.6	-186.0	-83.8	203.9	0.55	-0.53	-0.64	
1,422.0	13.70	205.90	1,399.0	-205.7	-93.4	225.8	0.43	0.43	0.00	
1,515.0	14.50	207.50	1,489.2	-226.0	-103.6	248.5	0.96	0.86	1.72	
1,609.0	14.90	208.10	1,580.1	-247.1	-114.7	272.3	0.46	0.43	0.64	
1,703.0	15.00	208.20	1,670.9	-268.4	-126.1	296.6	0.11	0.11	0.11	
1,796.0	14.70	206.80	1,760.8	-289.6	-137.1	320.4	0.50	-0.32	-1.51	
1,890.0	14.20	207.90	1,851.8	-310.4	-147.9	343.8	0.61	-0.53	1.17	
1,984.0	13.40	207.20	1,943.1	-330.3	-158.3	366.2	0.87	-0.85	-0.74	
2,077.0	13.50	207.70	2,033.6	-349.5	-168.3	387.9	0.16	0.11	0.54	
2,171.0	12.80	209.80	2,125.1	-368.2	-178.5	409.2	0.90	-0.74	2.23	
2,265.0	13.10	209.10	2,216.7	-386.6	-188.9	430.3	0.36	0.32	-0.74	
2,358.0	13.80	206.80	2,307.2	-405.7	-199.0	451.9	0.95	0.75	-2.47	
2,452.0	13.20	205.60	2,398.6	-425.4	-208.7	473.8	0.70	-0.64	-1.28	
2,546.0	13.60	203.80	2,490.0	-445.2	-217.8	495.6	0.61	0.43	-1.91	
2,639.0	13.20	206.30	2,580.5	-464.7	-226.9	517.1	0.76	-0.43	2.69	
2,733.0	12.70	206.30	2,672.1	-483.6	-236.3	538.2	0.53	-0.53	0.00	
2,827.0	12.80	206.50	2,763.8	-502.2	-245.5	559.0	0.12	0.11	0.21	
2,920.0	13.20	205.40	2,854.4	-521.0	-254.6	579.9	0.51	0.43	-1.18	
3,014.0	14.50	205.20	2,945.6	-541.3	-264.2	602.4	1.38	1.38	-0.21	
3,108.0	13.70	204.80	3,036.8	-562.1	-273.9	625.3	0.86	-0.85	-0.43	
3,201.0	14.20	208.00	3,127.1	-582.1	-283.9	647.7	0.99	0.54	3.44	
3,295.0	13.90	207.20	3,218.3	-602.4	-294.5	670.5	0.38	-0.32	-0.85	
3,389.0	14.20	205.40	3,309.4	-622.8	-304.6	693.3	0.56	0.32	-1.91	
3,482.0	14.60	202.30	3,399.5	-644.0	-313.9	716.4	0.93	0.43	-3.33	
3,576.0	13.50	205.20	3,490.7	-664.9	-323.1	739.2	1.39	-1.17	3.09	
3,669.0	12.80	205.80	3,581.3	-684.0	-332.2	760.4	0.77	-0.75	0.65	
3,763.0	12.80	208.20	3,672.9	-702.5	-341.6	781.2	0.57	0.00	2.55	
3,857.0	13.50	209.30	3,764.5	-721.3	-351.9	802.5	0.79	0.74	1.17	
3,950.0	12.00	208.10	3,855.2	-739.3	-361.8	823.0	1.64	-1.61	-1.29	
4,044.0	10.80	208.80	3,947.3	-755.6	-370.6	841.6	1.29	-1.28	0.74	
4,138.0	9.10	206.80	4,039.9	-769.9	-378.2	857.8	1.85	-1.81	-2.13	
4,231.0	7.70	208.60	4,131.9	-782.0	-384.5	871.4	1.53	-1.51	1.94	
4,325.0	6.30	204.40	4,225.2	-792.2	-389.7	882.9	1.58	-1.49	-4.47	
4,419.0	3.50	214.00	4,318.9	-799.3	-393.4	890.9	3.09	-2.98	10.21	
4,512.0	1.50	231.10	4,411.8	-802.4	-396.0	894.8	2.27	-2.15	18.39	
4,606.0	0.20	2.40	4,505.8	-803.0	-396.9	895.7	1.74	-1.38	139.68	
4,700.0	0.40	277.00	4,599.7	-802.8	-397.2	895.7	0.46	0.21	-90.85	
4,793.0	0.40	192.80	4,692.7	-803.1	-397.6	896.1	0.58	0.00	-90.54	
4,887.0	0.50	218.80	4,786.7	-803.7	-398.0	896.8	0.24	0.11	27.66	
4,981.0	0.70	247.80	4,880.7	-804.3	-398.7	897.7	0.38	0.21	30.85	
5,074.0	1.10	257.10	4,973.7	-804.7	-400.1	898.7	0.46	0.43	10.00	
5,100.1	1.15	259.51	4,999.9	-804.8	-400.6	899.0	0.27	0.20	9.21	
TARGET BHL 2590'FNL, 2590'FEL										
5,168.0	1.30	264.80	5,067.7	-805.0	-402.1	899.8	0.27	0.22	7.80	
5,262.0	0.90	265.90	5,161.7	-805.1	-403.9	900.7	0.43	-0.43	1.17	
5,355.0	1.10	276.30	5,254.7	-805.1	-405.5	901.4	0.29	0.22	11.18	
5,449.0	1.00	266.40	5,348.7	-805.0	-407.2	902.1	0.22	-0.11	-10.53	
5,543.0	0.90	271.50	5,442.6	-805.1	-408.8	902.8	0.14	-0.11	5.43	
5,636.0	0.90	277.30	5,535.6	-804.9	-410.2	903.4	0.10	0.00	6.24	
5,730.0	1.00	272.90	5,629.6	-804.8	-411.8	903.9	0.13	0.11	-4.68	
5,824.0	0.70	271.50	5,723.6	-804.8	-413.2	904.5	0.32	-0.32	-1.49	
5,917.0	0.60	253.80	5,816.6	-804.9	-414.2	905.1	0.24	-0.11	-19.03	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Maier 4-4-28
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Site:	Maier 31-28 Pad Sec.28-T2N-R66W	MD Reference:	WELL @ 4943.0ft (Original Well Elev)
Well:	Maier 4-4-28	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)
6,011.0	0.40	255.00	5,910.6	-805.1	-415.0	905.6	0.21	-0.21	1.28
6,105.0	0.30	223.50	6,004.6	-805.4	-415.5	906.1	0.23	-0.11	-33.51
6,198.0	0.40	182.00	6,097.6	-805.9	-415.7	906.6	0.28	0.11	-44.62
6,292.0	0.40	240.20	6,191.6	-806.4	-415.9	907.2	0.41	0.00	61.92
6,386.0	0.40	145.30	6,285.6	-806.8	-416.0	907.6	0.63	0.00	-100.96
6,480.0	0.20	34.40	6,379.6	-806.9	-415.8	907.6	0.54	-0.21	-117.98
6,574.0	0.70	7.30	6,473.6	-806.2	-415.6	906.9	0.56	0.53	-28.83
6,668.0	1.10	27.90	6,567.6	-804.9	-415.1	905.4	0.54	0.43	21.91
6,763.0	0.70	357.10	6,662.6	-803.5	-414.7	904.0	0.65	-0.42	-32.42
6,857.0	0.70	326.40	6,756.6	-802.4	-415.1	903.2	0.39	0.00	-32.66
6,951.0	0.50	335.10	6,850.6	-801.6	-415.5	902.7	0.23	-0.21	9.26
7,045.0	0.60	301.60	6,944.6	-800.9	-416.1	902.4	0.35	0.11	-35.64
7,140.0	0.40	267.50	7,039.5	-800.7	-416.9	902.5	0.37	-0.21	-35.89
7,234.0	0.70	278.90	7,133.5	-800.6	-417.8	902.8	0.34	0.32	12.13
7,243.2	0.66	276.51	7,142.8	-800.6	-417.9	902.8	0.53	-0.43	-25.81
TARGET CIRCLE 2590'FNL & 2590'FEL									
7,328.0	0.40	234.60	7,227.5	-800.7	-418.6	903.3	0.53	-0.31	-49.45
7,423.0	0.50	174.10	7,322.5	-801.3	-418.9	903.9	0.49	0.11	-63.68
7,517.0	0.80	162.00	7,416.5	-802.4	-418.6	904.7	0.35	0.32	-12.87
7,611.0	0.80	179.20	7,510.5	-803.6	-418.4	905.8	0.25	0.00	18.30
7,705.0	0.80	180.30	7,604.5	-804.9	-418.4	907.0	0.02	0.00	1.17
7,800.0	0.90	167.50	7,699.5	-806.3	-418.2	908.1	0.23	0.11	-13.47
7,894.0	0.70	181.50	7,793.5	-807.6	-418.1	909.2	0.30	-0.21	14.89
7,988.0	0.70	167.60	7,887.5	-808.8	-418.0	910.2	0.18	0.00	-14.79
8,065.0	1.00	139.50	7,964.5	-809.7	-417.4	910.8	0.66	0.39	-36.49
8,110.0	1.00	139.50	8,009.5	-810.3	-416.9	911.2	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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