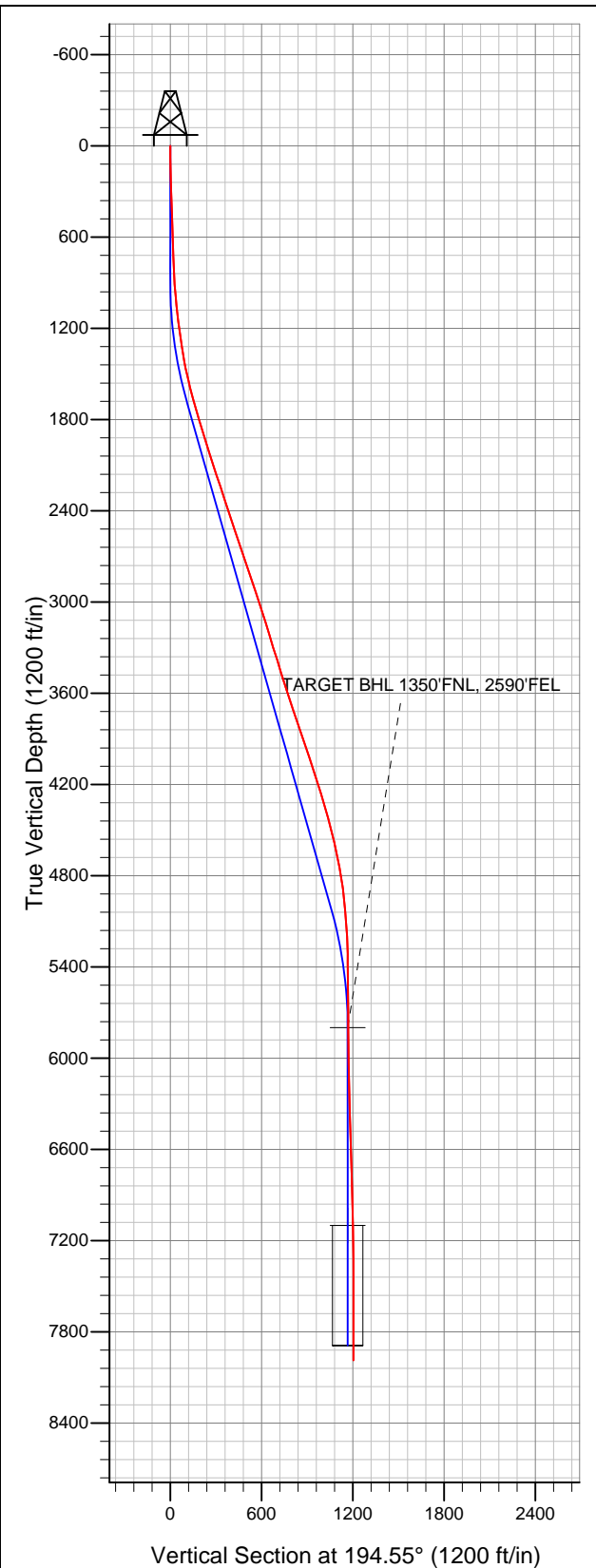


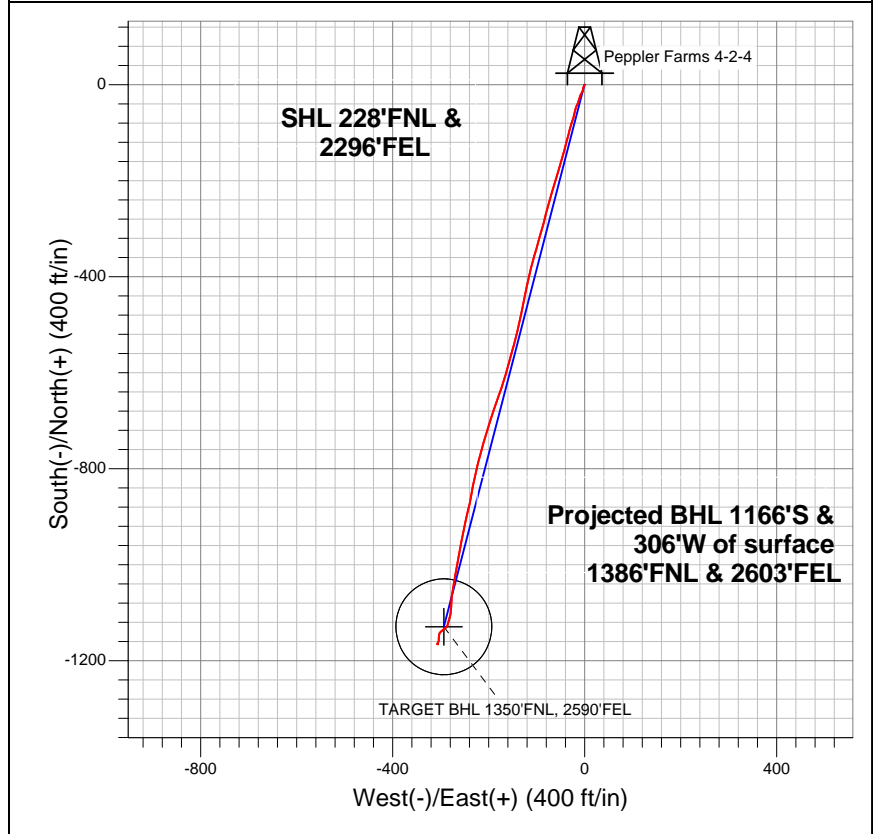
Well Name: Peppler Farms 4-2-4

Surface Location: Peppler Farms 6-4-4 Pad Sec.4-T3N-R68W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 5068.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1338605.15	3137609.87	40.261820	-105.006910	
Original Well Elev		WELL @ 5081.0ft (Original Well Elev)				



EnCana Oil & Gas Weld County CO



LEGEND

- Wellbore #1
- Peppler Farms 4-2-4, Wellbore #1, Plan #1 (8-22-12) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
8152'MD & 7988'TVD @ 1205'VS
0.50 deg Inc 182.50 deg AZ

Project: SEC.4-T3N-R68W
Site: Peppler Farms 6-4-4 Pad Sec.4-T3N-R68W
Well: Peppler Farms 4-2-4
Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.4-T3N-R68W

Peppler Farms 6-4-4 Pad Sec.4-T3N-R68W

Peppler Farms 4-2-4

Wellbore #1

Survey: Survey #1

Standard Survey Report

21 September, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Peppler Farms 4-2-4
Project:	SEC.4-T3N-R68W	TVD Reference:	WELL @ 5081.0ft (Original Well Elev)
Site:	Peppler Farms 6-4-4 Pad Sec.4-T3N-R68W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Peppler Farms 4-2-4	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.4-T3N-R68W, Weld 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		Peppler Farms 6-4-4 Pad Sec.4-T3N-R68W			
Site Position:		Northing:	1,338,605.22 ft	Latitude:	40.261820
From:	Lat/Long	Easting:	3,137,621.04 ft	Longitude:	-105.006870
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.32 °

Well	Peppler Farms 4-2-4					
Well Position	+N/-S	0.0 ft	Northing:	1,338,605.15 ft	Latitude:	40.261820
	+E/-W	0.0 ft	Easting:	3,137,609.87 ft	Longitude:	-105.006910
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,068.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/22/2012	8.82	66.86	52,906

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	194.55	

Survey Program		Date	9/21/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
76.0	8,152.0	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
	76.0	1.00	190.80	76.0	-0.7	-0.1	0.7	1.32	1.32	0.00
	137.0	1.30	202.90	137.0	-1.8	-0.5	1.9	0.63	0.49	19.84
	228.0	1.40	207.50	228.0	-3.7	-1.4	4.0	0.16	0.11	5.05
	320.0	2.10	199.00	319.9	-6.3	-2.5	6.8	0.81	0.76	-9.24
	412.0	2.10	187.20	411.9	-9.6	-3.2	10.1	0.47	0.00	-12.83
	503.0	1.80	199.00	502.8	-12.6	-3.9	13.2	0.55	-0.33	12.97
	595.0	2.00	209.00	594.8	-15.4	-5.2	16.2	0.42	0.22	10.87
	671.0	2.00	207.50	670.7	-17.7	-6.4	18.8	0.07	0.00	-1.97
	725.0	2.00	207.50	724.7	-19.4	-7.3	20.6	0.00	0.00	0.00
	742.0	1.70	213.80	741.7	-19.9	-7.6	21.1	2.13	-1.76	37.06
	827.0	2.80	199.70	826.6	-22.9	-9.0	24.4	1.44	1.29	-16.59
	913.0	3.80	194.30	912.5	-27.6	-10.4	29.3	1.22	1.16	-6.28

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Pepler Farms 4-2-4
Project:	SEC.4-T3N-R68W	TVD Reference:	WELL @ 5081.0ft (Original Well Elev)
Site:	Pepler Farms 6-4-4 Pad Sec.4-T3N-R68W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Pepler Farms 4-2-4	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)	
998.0	4.70	197.80	997.2	-33.6	-12.1	35.6	1.10	1.06	4.12	
1,084.0	6.50	205.70	1,082.8	-41.4	-15.3	43.9	2.27	2.09	9.19	
1,170.0	7.70	195.10	1,168.1	-51.3	-18.9	54.5	2.06	1.40	-12.33	
1,255.0	7.70	192.90	1,252.4	-62.4	-21.7	65.8	0.35	0.00	-2.59	
1,341.0	9.10	198.70	1,337.5	-74.4	-25.2	78.4	1.90	1.63	6.74	
1,426.0	10.80	196.00	1,421.2	-88.5	-29.5	93.0	2.07	2.00	-3.18	
1,512.0	12.30	193.40	1,505.4	-105.1	-33.9	110.3	1.85	1.74	-3.02	
1,598.0	14.20	195.10	1,589.1	-124.2	-38.7	130.0	2.26	2.21	1.98	
1,683.0	15.70	195.90	1,671.3	-145.4	-44.6	151.9	1.78	1.76	0.94	
1,769.0	16.10	195.10	1,754.0	-168.1	-50.9	175.4	0.53	0.47	-0.93	
1,854.0	16.50	197.80	1,835.6	-190.9	-57.6	199.3	1.01	0.47	3.18	
1,940.0	17.80	197.80	1,917.7	-215.1	-65.4	224.6	1.51	1.51	0.00	
2,026.0	17.20	194.60	1,999.8	-239.9	-72.6	250.4	1.32	-0.70	-3.72	
2,111.0	17.70	194.30	2,080.8	-264.6	-79.0	275.9	0.60	0.59	-0.35	
2,197.0	18.50	195.90	2,162.6	-290.4	-85.9	302.6	1.10	0.93	1.86	
2,282.0	18.50	195.50	2,243.2	-316.3	-93.2	329.6	0.15	0.00	-0.47	
2,368.0	17.90	195.30	2,324.9	-342.2	-100.4	356.5	0.70	-0.70	-0.23	
2,454.0	18.50	196.40	2,406.6	-368.1	-107.7	383.3	0.80	0.70	1.28	
2,539.0	19.10	192.70	2,487.1	-394.6	-114.6	410.7	1.57	0.71	-4.35	
2,625.0	18.90	192.00	2,568.4	-421.9	-120.6	438.7	0.35	-0.23	-0.81	
2,710.0	18.20	191.30	2,649.0	-448.4	-126.0	465.7	0.86	-0.82	-0.82	
2,796.0	18.60	190.80	2,730.6	-475.0	-131.2	492.8	0.50	0.47	-0.58	
2,882.0	18.60	193.70	2,812.1	-501.8	-137.1	520.2	1.08	0.00	3.37	
2,967.0	18.70	194.60	2,892.6	-528.2	-143.7	547.4	0.36	0.12	1.06	
3,053.0	18.20	195.50	2,974.2	-554.5	-150.8	574.6	0.67	-0.58	1.05	
3,138.0	18.10	195.30	3,055.0	-580.0	-157.8	601.1	0.14	-0.12	-0.24	
3,224.0	17.50	195.70	3,136.8	-605.3	-164.8	627.3	0.71	-0.70	0.47	
3,310.0	16.90	199.00	3,219.0	-629.6	-172.4	652.7	1.33	-0.70	3.84	
3,395.0	17.20	199.70	3,300.3	-653.1	-180.6	677.6	0.43	0.35	0.82	
3,481.0	17.10	198.50	3,382.4	-677.1	-188.9	702.8	0.43	-0.12	-1.40	
3,566.0	17.40	197.60	3,463.6	-701.1	-196.8	728.0	0.47	0.35	-1.06	
3,652.0	17.60	197.30	3,545.6	-725.7	-204.5	753.8	0.26	0.23	-0.35	
3,738.0	17.70	194.80	3,627.6	-750.8	-211.7	779.9	0.89	0.12	-2.91	
3,823.0	19.00	195.70	3,708.3	-776.6	-218.8	806.6	1.57	1.53	1.06	
3,909.0	18.50	193.40	3,789.7	-803.3	-225.7	834.3	1.04	-0.58	-2.67	
3,994.0	20.00	189.70	3,869.9	-830.8	-231.3	862.3	2.27	1.76	-4.35	
4,080.0	19.40	191.80	3,950.9	-859.3	-236.7	891.2	1.08	-0.70	2.44	
4,166.0	18.00	192.90	4,032.4	-886.2	-242.6	918.7	1.68	-1.63	1.28	
4,251.0	17.80	192.20	4,113.3	-911.7	-248.3	944.8	0.35	-0.24	-0.82	
4,337.0	17.30	191.30	4,195.3	-937.1	-253.5	970.7	0.66	-0.58	-1.05	
4,422.0	16.70	191.80	4,276.5	-961.4	-258.5	995.5	0.73	-0.71	0.59	
4,508.0	16.50	189.20	4,359.0	-985.6	-263.0	1,020.1	0.89	-0.23	-3.02	
4,594.0	15.00	189.70	4,441.7	-1,008.6	-266.8	1,043.3	1.75	-1.74	0.58	
4,679.0	13.80	190.10	4,524.0	-1,029.4	-270.4	1,064.4	1.42	-1.41	0.47	
4,765.0	12.80	189.90	4,607.7	-1,048.9	-273.9	1,084.1	1.16	-1.16	-0.23	
4,850.0	11.30	186.40	4,690.9	-1,066.5	-276.4	1,101.7	1.96	-1.76	-4.12	
4,936.0	10.50	182.30	4,775.3	-1,082.7	-277.7	1,117.7	1.29	-0.93	-4.77	
5,022.0	8.40	185.30	4,860.1	-1,096.8	-278.6	1,131.6	2.51	-2.44	3.49	
5,107.0	5.70	195.30	4,944.5	-1,107.0	-280.3	1,141.9	3.48	-3.18	11.76	
5,193.0	5.00	194.30	5,030.1	-1,114.8	-282.3	1,149.9	0.82	-0.81	-1.16	
5,278.0	4.40	194.40	5,114.8	-1,121.5	-284.0	1,156.9	0.71	-0.71	0.12	
5,364.0	3.30	198.10	5,200.6	-1,127.1	-285.6	1,162.7	1.31	-1.28	4.30	
5,450.0	1.10	230.00	5,286.6	-1,130.0	-287.0	1,165.8	2.83	-2.56	37.09	
5,535.0	0.90	234.30	5,371.6	-1,130.9	-288.2	1,167.0	0.25	-0.24	5.06	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Pepler Farms 4-2-4
Project:	SEC.4-T3N-R68W	TVD Reference:	WELL @ 5081.0ft (Original Well Elev)
Site:	Pepler Farms 6-4-4 Pad Sec.4-T3N-R68W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Pepler Farms 4-2-4	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)
5,706.0	0.70	242.30	5,542.5	-1,132.1	-290.2	1,168.7	0.13	-0.12	4.68
5,878.0	0.40	230.30	5,714.5	-1,133.0	-291.6	1,169.9	0.19	-0.17	-6.98
5,963.4	0.80	228.95	5,800.0	-1,133.6	-292.3	1,170.7	0.47	0.47	-1.58
TARGET BHL 1350'FNL, 2590'FEL									
6,049.0	1.20	228.50	5,885.5	-1,134.6	-293.4	1,171.9	0.47	0.47	-0.53
6,220.0	1.10	235.40	6,056.5	-1,136.7	-296.1	1,174.6	0.10	-0.06	4.04
6,391.0	1.10	233.10	6,227.5	-1,138.6	-298.8	1,177.2	0.03	0.00	-1.35
6,562.0	1.50	212.40	6,398.4	-1,141.5	-301.3	1,180.6	0.36	0.23	-12.11
6,734.0	2.30	192.00	6,570.3	-1,146.8	-303.2	1,186.2	0.60	0.47	-11.86
6,905.0	2.10	177.20	6,741.2	-1,153.3	-303.8	1,192.6	0.35	-0.12	-8.65
7,076.0	1.50	190.10	6,912.1	-1,158.6	-304.0	1,197.8	0.42	-0.35	7.54
7,247.0	1.20	213.10	7,083.1	-1,162.3	-305.4	1,201.7	0.36	-0.18	13.45
7,264.5	1.11	211.93	7,100.5	-1,162.6	-305.6	1,202.1	0.52	-0.51	-6.67
TARGET CIRCLE 1350'FNL & 2590'FEL									
7,418.0	0.40	179.50	7,254.0	-1,164.4	-306.3	1,204.0	0.52	-0.46	-21.13
7,590.0	0.30	135.90	7,426.0	-1,165.3	-306.0	1,204.8	0.16	-0.06	-25.35
7,761.0	0.10	45.20	7,597.0	-1,165.5	-305.6	1,204.9	0.19	-0.12	-53.04
7,935.0	0.40	312.40	7,771.0	-1,165.0	-306.0	1,204.5	0.24	0.17	-53.33
8,110.0	0.50	182.50	7,946.0	-1,165.4	-306.4	1,205.0	0.47	0.06	-74.23
8,152.0	0.50	182.50	7,988.0	-1,165.7	-306.5	1,205.3	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____