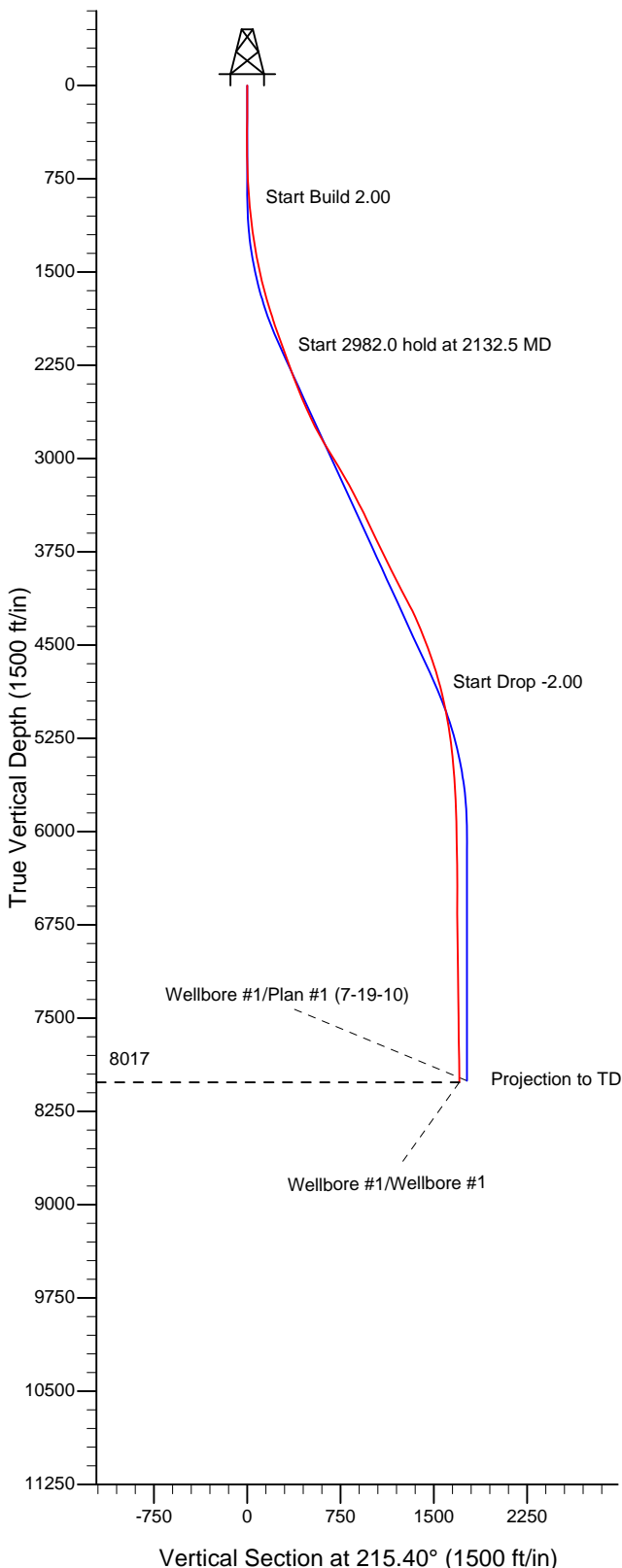
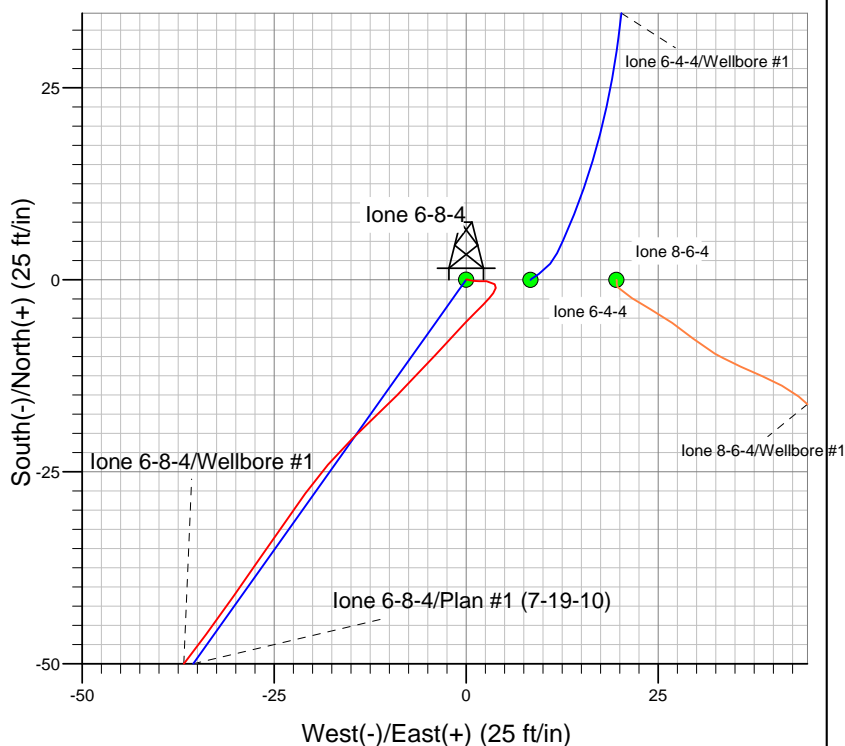
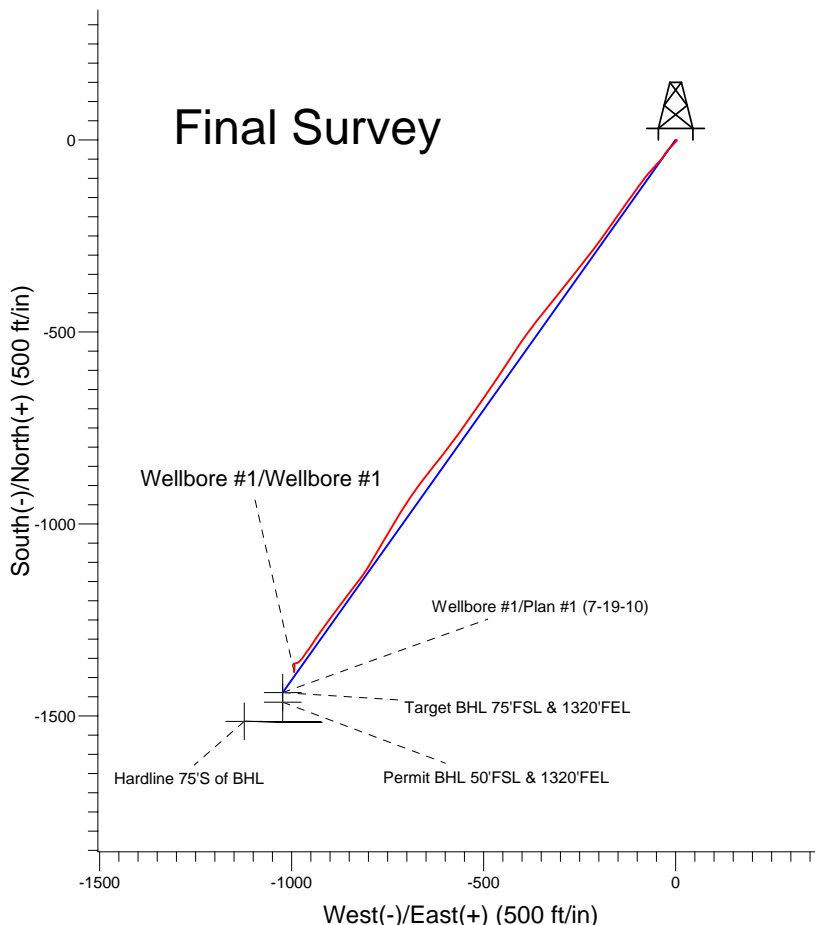
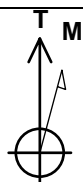


EnCana Oil & Gas Weld County CO

Final Survey



lone 6-8-4
 Wellbore #1
 11:04, September 08 2010



Azimuths to True North
 Magnetic North: 8.97°
 Magnetic Field
 Strength: 53100.6snT
 Dip Angle: 66.89°
 Date: 7/20/2010
 Model: IGRF2010



EnCana Oil & Gas Weld County CO

SEC.4-T2N-R66W

lone 6-8-4 Pad Sec.4-T2N-R66W

lone 6-8-4

Wellbore #1

Design: Wellbore #1

Standard Survey Report

08 September, 2010

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well lone 6-8-4
Project:	SEC.4-T2N-R66W	TVD Reference:	WELL @ 4959.0ft (Original Well Elev)
Site:	lone 6-8-4 Pad Sec.4-T2N-R66W	MD Reference:	WELL @ 4959.0ft (Original Well Elev)
Well:	lone 6-8-4	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.4-T2N-R66W, 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		Ione 6-8-4 Pad Sec.4-T2N-R66W			
Site Position:		Northing:	1,303,411.73ft	Latitude:	40° 9' 50.328 N
From:	Lat/Long	Easting:	3,202,914.16ft	Longitude:	104° 46' 26.220 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.47 °

Well	Ione 6-8-4					
Well Position	+N/-S	0.0 ft	Northing:	1,303,411.71 ft	Latitude:	40° 9' 50.328 N
	+E/-W	0.0 ft	Easting:	3,202,914.16 ft	Longitude:	104° 46' 26.220 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,946.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/20/2010	8.97	66.89	53,101

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	215.40

Survey Program		Date	9/8/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
78.0	8,350.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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
78.0	0.20	77.30	78.0	0.0	0.1	-0.1	0.26	0.26	0.00
171.0	0.20	127.00	171.0	0.0	0.4	-0.2	0.18	0.00	53.44
264.0	0.50	92.40	264.0	-0.1	1.0	-0.4	0.38	0.32	-37.20
357.0	0.40	93.70	357.0	-0.2	1.7	-0.8	0.11	-0.11	1.40
450.0	0.80	89.30	450.0	-0.2	2.7	-1.4	0.43	0.43	-4.73
542.0	0.70	134.30	542.0	-0.6	3.7	-1.7	0.63	-0.11	48.91
634.0	1.20	216.60	634.0	-1.7	3.5	-0.6	1.42	0.54	89.46
726.0	3.20	224.80	725.9	-4.3	1.1	2.9	2.20	2.17	8.91
757.0	3.60	225.30	756.8	-5.6	-0.2	4.7	1.29	1.29	1.61
839.0	4.40	220.50	838.6	-9.8	-4.0	10.4	1.06	0.98	-5.85
926.0	5.10	226.40	925.3	-15.0	-9.0	17.5	0.98	0.80	6.78
1,014.0	5.70	225.40	1,013.0	-20.8	-14.9	25.6	0.69	0.68	-1.14

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well lone 6-8-4
Project:	SEC.4-T2N-R66W	TVD Reference:	WELL @ 4959.0ft (Original Well Elev)
Site:	lone 6-8-4 Pad Sec.4-T2N-R66W	MD Reference:	WELL @ 4959.0ft (Original Well Elev)
Well:	lone 6-8-4	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)	
1,101.0	6.50	216.30	1,099.5	-27.8	-20.9	34.8	1.44	0.92	-10.46	
1,188.0	7.30	214.00	1,185.8	-36.4	-26.9	45.3	0.97	0.92	-2.64	
1,276.0	8.40	216.20	1,273.0	-46.2	-33.9	57.3	1.30	1.25	2.50	
1,363.0	10.20	221.80	1,358.9	-57.1	-42.7	71.3	2.31	2.07	6.44	
1,450.0	11.40	223.40	1,444.3	-69.1	-53.8	87.4	1.42	1.38	1.84	
1,537.0	13.40	221.10	1,529.3	-82.9	-66.3	106.0	2.37	2.30	-2.64	
1,625.0	15.50	218.10	1,614.5	-99.8	-80.3	127.9	2.53	2.39	-3.41	
1,712.0	16.40	215.80	1,698.2	-118.9	-94.6	151.8	1.26	1.03	-2.64	
1,799.0	16.50	215.30	1,781.6	-139.0	-109.0	176.4	0.20	0.11	-0.57	
1,887.0	16.90	216.40	1,865.9	-159.5	-123.8	201.7	0.58	0.45	1.25	
1,974.0	20.30	216.40	1,948.3	-181.8	-140.2	229.4	3.91	3.91	0.00	
2,061.0	19.70	212.30	2,030.1	-206.4	-157.0	259.2	1.75	-0.69	-4.71	
2,149.0	19.10	215.50	2,113.1	-230.6	-173.3	288.4	1.39	-0.68	3.64	
2,236.0	19.80	218.00	2,195.1	-253.8	-190.7	317.3	1.25	0.80	2.87	
2,323.0	19.60	216.00	2,277.0	-277.2	-208.3	346.7	0.81	-0.23	-2.30	
2,410.0	20.90	217.00	2,358.7	-301.4	-226.2	376.8	1.55	1.49	1.15	
2,498.0	22.80	218.90	2,440.3	-327.2	-246.4	409.5	2.30	2.16	2.16	
2,585.0	23.60	218.50	2,520.3	-354.0	-267.8	443.7	0.94	0.92	-0.46	
2,672.0	23.30	218.00	2,600.1	-381.2	-289.2	478.3	0.41	-0.34	-0.57	
2,760.0	24.90	218.60	2,680.4	-409.4	-311.5	514.2	1.84	1.82	0.68	
2,847.0	27.50	219.60	2,758.5	-439.2	-335.8	552.5	3.03	2.99	1.15	
2,934.0	29.50	217.50	2,834.9	-471.6	-361.6	593.9	2.57	2.30	-2.41	
3,022.0	31.10	216.10	2,910.9	-507.2	-388.2	638.3	1.99	1.82	-1.59	
3,109.0	31.20	213.20	2,985.4	-544.2	-413.8	683.3	1.73	0.11	-3.33	
3,196.0	31.50	213.30	3,059.7	-582.1	-438.6	728.5	0.35	0.34	0.11	
3,283.0	30.60	214.20	3,134.2	-619.4	-463.5	773.4	1.16	-1.03	1.03	
3,371.0	28.20	214.50	3,210.9	-655.0	-487.9	816.6	2.73	-2.73	0.34	
3,458.0	28.20	214.50	3,287.5	-688.9	-511.2	857.7	0.00	0.00	0.00	
3,545.0	27.40	215.10	3,364.5	-722.2	-534.3	898.2	0.97	-0.92	0.69	
3,633.0	25.90	216.30	3,443.2	-754.3	-557.3	937.7	1.81	-1.70	1.36	
3,720.0	24.20	215.90	3,522.0	-784.1	-579.0	974.5	1.96	-1.95	-0.46	
3,807.0	26.70	218.20	3,600.5	-813.9	-601.6	1,011.9	3.09	2.87	2.64	
3,895.0	26.10	218.00	3,679.3	-844.7	-625.7	1,051.0	0.69	-0.68	-0.23	
3,982.0	26.10	218.20	3,757.5	-874.8	-649.4	1,089.2	0.10	0.00	0.23	
4,069.0	25.50	216.00	3,835.8	-905.0	-672.2	1,127.1	1.30	-0.69	-2.53	
4,156.0	26.20	214.00	3,914.1	-936.0	-693.9	1,165.0	1.29	0.80	-2.30	
4,244.0	27.70	211.90	3,992.5	-969.5	-715.6	1,204.8	2.02	1.70	-2.39	
4,331.0	27.70	209.80	4,069.6	-1,004.2	-736.4	1,245.1	1.12	0.00	-2.41	
4,418.0	28.00	211.50	4,146.5	-1,039.2	-757.1	1,285.6	0.98	0.34	1.95	
4,506.0	27.00	210.10	4,224.6	-1,074.1	-777.9	1,326.1	1.35	-1.14	-1.59	
4,593.0	24.00	210.60	4,303.1	-1,106.4	-796.8	1,363.4	3.46	-3.45	0.57	
4,680.0	21.20	215.40	4,383.4	-1,134.5	-814.9	1,396.8	3.85	-3.22	5.52	
4,768.0	21.30	218.50	4,465.4	-1,160.0	-834.1	1,428.7	1.28	0.11	3.52	
4,855.0	20.90	217.00	4,546.6	-1,184.7	-853.3	1,460.0	0.77	-0.46	-1.72	
4,942.0	18.40	216.80	4,628.5	-1,208.1	-870.8	1,489.2	2.87	-2.87	-0.23	
5,029.0	16.70	216.60	4,711.4	-1,229.1	-886.5	1,515.4	1.96	-1.95	-0.23	
5,117.0	15.70	216.50	4,796.0	-1,248.9	-901.1	1,540.0	1.14	-1.14	-0.11	
5,204.0	14.20	215.50	4,880.0	-1,267.0	-914.3	1,562.4	1.75	-1.72	-1.15	
5,291.0	12.40	214.30	4,964.7	-1,283.4	-925.8	1,582.4	2.09	-2.07	-1.38	
5,379.0	10.70	214.50	5,050.9	-1,298.0	-935.7	1,600.1	1.93	-1.93	0.23	
5,466.0	9.50	214.30	5,136.5	-1,310.5	-944.4	1,615.3	1.38	-1.38	-0.23	
5,553.0	8.30	214.90	5,222.5	-1,321.6	-952.0	1,628.8	1.38	-1.38	0.69	
5,641.0	6.90	216.40	5,309.7	-1,331.1	-958.8	1,640.4	1.61	-1.59	1.70	
5,728.0	5.40	214.00	5,396.2	-1,338.7	-964.2	1,649.7	1.75	-1.72	-2.76	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well lone 6-8-4
Project:	SEC.4-T2N-R66W	TVD Reference:	WELL @ 4959.0ft (Original Well Elev)
Site:	lone 6-8-4 Pad Sec.4-T2N-R66W	MD Reference:	WELL @ 4959.0ft (Original Well Elev)
Well:	lone 6-8-4	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)	
5,815.0	4.70	216.00	5,482.9	-1,345.0	-968.6	1,657.4	0.83	-0.80	2.30	
5,902.0	4.10	217.00	5,569.6	-1,350.3	-972.5	1,664.1	0.70	-0.69	1.15	
6,077.0	2.60	225.70	5,744.3	-1,358.1	-979.1	1,674.2	0.90	-0.86	4.97	
6,252.0	1.80	245.90	5,919.2	-1,362.0	-984.5	1,680.5	0.63	-0.46	11.54	
6,334.5	1.64	252.41	6,001.6	-1,362.9	-986.8	1,682.5	0.30	-0.19	7.90	
Target BHL 75'FSL & 1320'FEL - Permit BHL 50'FSL & 1320'FEL										
6,426.0	1.50	261.10	6,093.1	-1,363.5	-989.2	1,684.4	0.30	-0.16	9.49	
6,601.0	1.10	265.00	6,268.1	-1,364.0	-993.2	1,687.1	0.23	-0.23	2.23	
6,775.0	0.20	166.50	6,442.1	-1,364.4	-994.7	1,688.4	0.66	-0.52	-56.61	
6,950.0	0.50	101.90	6,617.0	-1,364.9	-993.9	1,688.3	0.26	0.17	-36.91	
7,125.0	1.10	158.70	6,792.0	-1,366.6	-992.6	1,688.9	0.53	0.34	32.46	
7,299.0	1.10	179.00	6,966.0	-1,369.8	-991.9	1,691.2	0.22	0.00	11.67	
7,474.0	1.00	192.00	7,141.0	-1,373.0	-992.2	1,693.9	0.15	-0.06	7.43	
7,648.0	0.90	181.40	7,314.9	-1,375.8	-992.6	1,696.5	0.12	-0.06	-6.09	
7,823.0	0.70	175.90	7,489.9	-1,378.3	-992.5	1,698.4	0.12	-0.11	-3.14	
7,998.0	0.90	190.50	7,664.9	-1,380.7	-992.7	1,700.5	0.16	0.11	8.34	
8,172.0	0.90	175.80	7,838.9	-1,383.4	-992.9	1,702.8	0.13	0.00	-8.45	
8,300.0	1.00	180.40	7,966.9	-1,385.5	-992.8	1,704.5	0.10	0.08	3.59	
8,339.4	1.00	180.40	8,006.3	-1,386.2	-992.8	1,705.0	0.00	0.00	0.00	
Hardline 75'S of BHL										
8,350.0	1.00	180.40	8,016.9	-1,386.4	-992.8	1,705.2	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
8,350.0	8,016.9	-1,386.4	-992.8	Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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