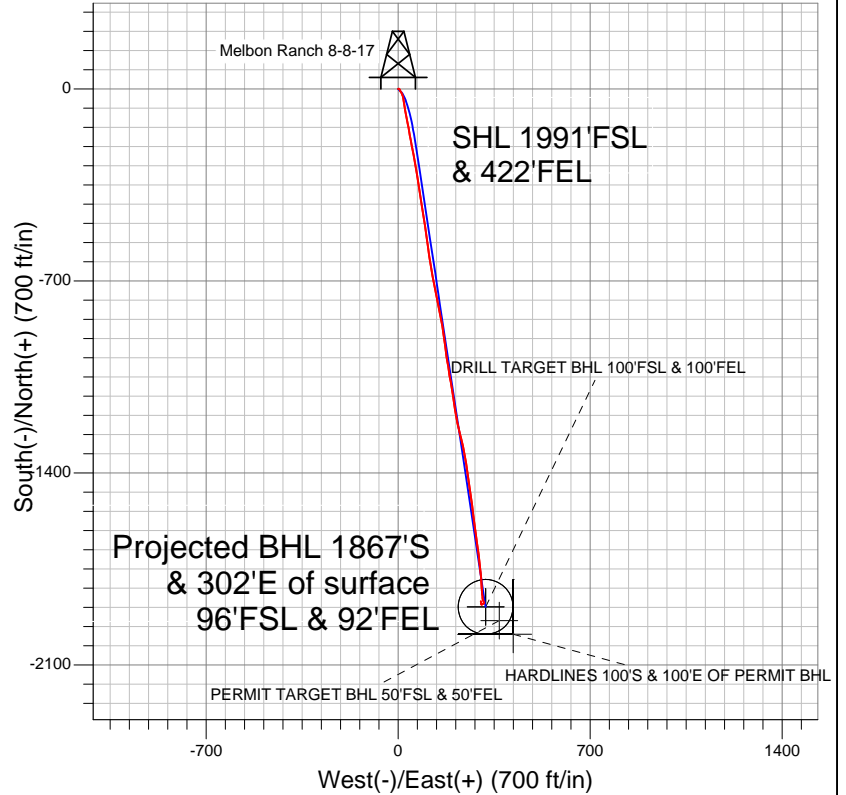
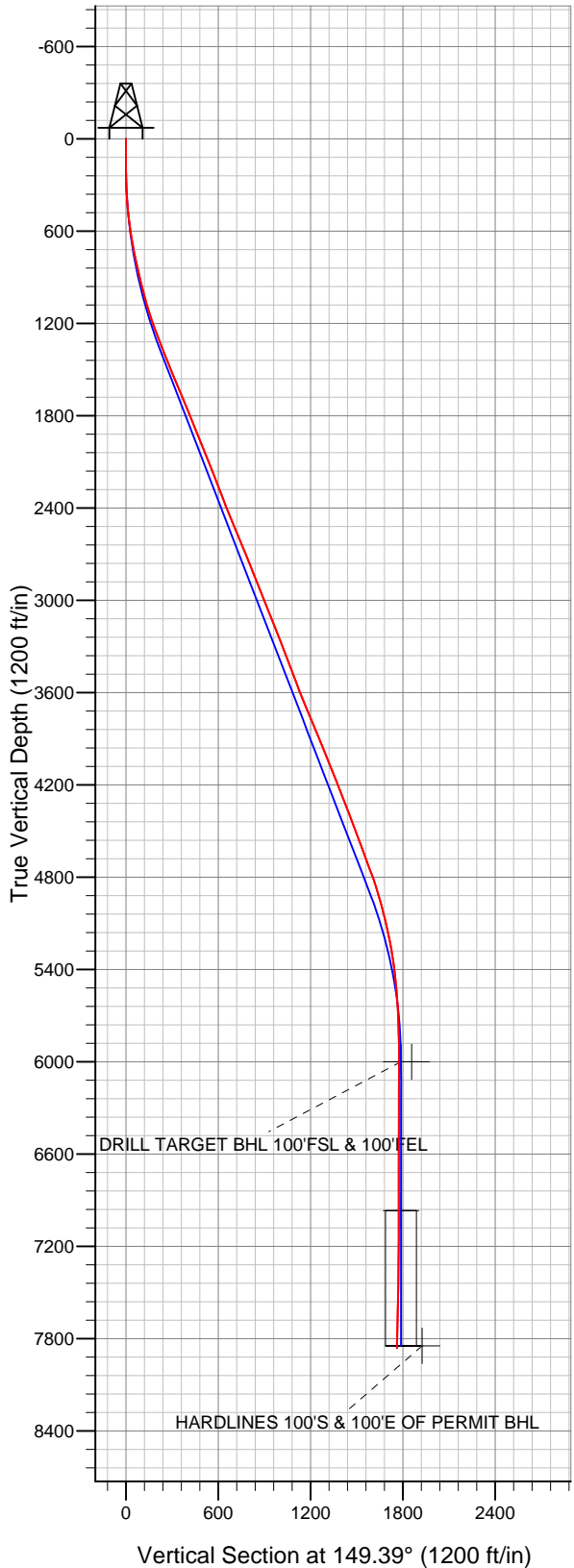


Well Name: Melbon Ranch 8-8-17

Surface Location: Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4901.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1293783.82	3229283.82	40.136920	-104.679920	
		Original Well Elev	WELL @ 4914.0ft (Original Well Elev)			

EnCana Oil & Gas Weld County CO



LEGEND

- Survey #1
- Melbon Ranch 8-8-17, Wellbore #1, Plan #2 (2-16-12) R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 8220'MD & 7862'TVD @ 1891'VS
 1.40 deg Inc 351.80 deg AZ

Project: SEC.17-T2N-R65W
 Site: Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W
 Well: Melbon Ranch 8-8-17
 Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.17-T2N-R65W

Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W

Melbon Ranch 8-8-17

Wellbore #1

Survey: Survey #1

Standard Survey Report

27 February, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Melbon Ranch 8-8-17
Project:	SEC.17-T2N-R65W	TVD Reference:	WELL @ 4914.0ft (Original Well Elev)
Site:	Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W	MD Reference:	WELL @ 4914.0ft (Original Well Elev)
Well:	Melbon Ranch 8-8-17	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.17-T2N-R65W, 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	Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W				
Site Position:		Northing:	1,293,798.52 ft	Latitude:	40.136960
From:	Lat/Long	Easting:	3,229,297.66 ft	Longitude:	-104.679870
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.53 °

Well	Melbon Ranch 8-8-17				
Well Position	+N-S	0.0 ft	Northing:	1,293,783.82 ft	Latitude: 40.136920
	+E-W	0.0 ft	Easting:	3,229,283.82 ft	Longitude: -104.679920
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 4,901.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/16/2012	8.71	66.83	52,931

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	149.39

Survey Program		Date	2/27/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
93.0	8,220.0	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
93.0	1.20	61.10	93.0	0.5	0.9	0.0	1.29	1.29	0.00
185.0	0.60	88.20	185.0	1.0	2.2	0.3	0.78	-0.65	29.46
277.0	1.10	115.60	277.0	0.6	3.5	1.3	0.69	0.54	29.78
369.0	3.10	153.80	368.9	-2.0	5.4	4.5	2.54	2.17	41.52
460.0	5.70	148.80	459.6	-8.1	8.8	11.4	2.89	2.86	-5.49
551.0	7.90	154.70	550.0	-17.6	13.8	22.2	2.53	2.42	6.48
643.0	9.50	167.10	640.9	-30.7	18.2	35.7	2.67	1.74	13.48
737.0	11.60	173.40	733.3	-47.7	21.0	51.7	2.55	2.23	6.70
845.0	14.20	170.50	838.6	-71.6	24.4	74.0	2.48	2.41	-2.69
922.0	14.70	168.70	913.2	-90.4	27.9	92.1	0.87	0.65	-2.34
1,016.0	15.50	168.20	1,003.9	-114.4	32.8	115.2	0.86	0.85	-0.53
1,110.0	17.30	170.30	1,094.1	-140.5	37.7	140.1	2.02	1.91	2.23

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Melbon Ranch 8-8-17
Project:	SEC.17-T2N-R65W	TVD Reference:	WELL @ 4914.0ft (Original Well Elev)
Site:	Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W	MD Reference:	WELL @ 4914.0ft (Original Well Elev)
Well:	Melbon Ranch 8-8-17	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)	
1,203.0	20.40	169.90	1,182.1	-170.1	42.9	168.3	3.34	3.33	-0.43	
1,297.0	22.20	168.60	1,269.7	-203.6	49.3	200.4	1.98	1.91	-1.38	
1,391.0	22.00	169.30	1,356.8	-238.4	56.1	233.7	0.35	-0.21	0.74	
1,484.0	23.50	169.80	1,442.5	-273.7	62.6	267.5	1.63	1.61	0.54	
1,578.0	23.80	170.60	1,528.6	-310.9	69.0	302.7	0.47	0.32	0.85	
1,672.0	24.20	171.90	1,614.5	-348.7	74.8	338.2	0.71	0.43	1.38	
1,765.0	24.50	171.50	1,699.2	-386.6	80.4	373.7	0.37	0.32	-0.43	
1,859.0	24.20	170.30	1,784.9	-424.9	86.5	409.7	0.62	-0.32	-1.28	
1,953.0	23.10	171.50	1,871.0	-462.1	92.5	444.8	1.28	-1.17	1.28	
2,046.0	24.10	171.40	1,956.2	-498.9	98.0	479.3	1.08	1.08	-0.11	
2,140.0	23.90	172.10	2,042.1	-536.8	103.5	514.7	0.37	-0.21	0.74	
2,234.0	22.60	172.80	2,128.4	-573.5	108.4	548.8	1.41	-1.38	0.74	
2,327.0	22.50	170.50	2,214.3	-608.8	113.5	581.8	0.95	-0.11	-2.47	
2,421.0	22.30	171.20	2,301.2	-644.2	119.2	615.1	0.35	-0.21	0.74	
2,515.0	23.30	170.30	2,387.9	-680.1	125.1	649.1	1.13	1.06	-0.96	
2,608.0	23.50	168.30	2,473.2	-716.4	132.0	683.8	0.88	0.22	-2.15	
2,702.0	23.60	169.50	2,559.4	-753.3	139.2	719.2	0.52	0.11	1.28	
2,796.0	23.70	168.40	2,645.5	-790.3	146.4	754.7	0.48	0.11	-1.17	
2,889.0	23.70	167.60	2,730.7	-826.8	154.2	790.1	0.35	0.00	-0.86	
2,983.0	23.20	171.10	2,816.9	-863.6	161.1	825.3	1.57	-0.53	3.72	
3,077.0	23.60	171.20	2,903.2	-900.5	166.9	859.9	0.43	0.43	0.11	
3,170.0	23.60	173.50	2,988.4	-937.4	171.8	894.2	0.99	0.00	2.47	
3,264.0	23.60	171.50	3,074.6	-974.7	176.7	928.8	0.85	0.00	-2.13	
3,358.0	22.40	170.40	3,161.1	-1,011.0	182.5	963.0	1.36	-1.28	-1.17	
3,451.0	22.10	172.40	3,247.2	-1,045.8	187.8	995.6	0.88	-0.32	2.15	
3,545.0	22.40	169.40	3,334.2	-1,080.9	193.4	1,028.7	1.25	0.32	-3.19	
3,639.0	22.80	169.60	3,420.9	-1,116.4	200.0	1,062.7	0.43	0.43	0.21	
3,732.0	22.70	173.00	3,506.7	-1,152.0	205.4	1,096.0	1.42	-0.11	3.66	
3,826.0	22.40	171.00	3,593.5	-1,187.6	210.4	1,129.3	0.88	-0.32	-2.13	
3,920.0	23.30	166.90	3,680.2	-1,223.4	217.4	1,163.7	1.95	0.96	-4.36	
4,013.0	24.30	165.40	3,765.2	-1,259.9	226.4	1,199.6	1.26	1.08	-1.61	
4,107.0	22.50	167.70	3,851.5	-1,296.2	235.1	1,235.3	2.15	-1.91	2.45	
4,200.0	23.50	169.40	3,937.1	-1,331.8	242.3	1,269.6	1.29	1.08	1.83	
4,294.0	23.70	171.40	4,023.3	-1,368.9	248.6	1,304.7	0.88	0.21	2.13	
4,388.0	24.50	171.10	4,109.1	-1,406.8	254.5	1,340.3	0.86	0.85	-0.32	
4,481.0	23.70	172.20	4,194.0	-1,444.4	260.0	1,375.5	0.99	-0.86	1.18	
4,575.0	22.30	172.70	4,280.5	-1,480.8	264.8	1,409.3	1.50	-1.49	0.53	
4,669.0	21.80	172.70	4,367.6	-1,515.8	269.3	1,441.7	0.53	-0.53	0.00	
4,762.0	23.20	172.50	4,453.5	-1,551.1	273.9	1,474.4	1.51	1.51	-0.22	
4,856.0	21.40	172.50	4,540.5	-1,586.5	278.5	1,507.2	1.91	-1.91	0.00	
4,950.0	21.90	171.90	4,627.9	-1,620.8	283.2	1,539.2	0.58	0.53	-0.64	
5,043.0	22.60	172.60	4,713.9	-1,655.7	288.0	1,571.6	0.80	0.75	0.75	
5,137.0	21.10	172.50	4,801.2	-1,690.4	292.5	1,603.8	1.60	-1.60	-0.11	
5,231.0	18.90	173.00	4,889.5	-1,722.3	296.6	1,633.3	2.35	-2.34	0.53	
5,324.0	17.00	174.70	4,978.0	-1,750.8	299.7	1,659.4	2.12	-2.04	1.83	
5,418.0	14.80	175.00	5,068.4	-1,776.4	302.0	1,682.6	2.34	-2.34	0.32	
5,512.0	13.50	176.90	5,159.5	-1,799.3	303.6	1,703.2	1.47	-1.38	2.02	
5,605.0	11.60	175.80	5,250.3	-1,819.5	304.9	1,721.2	2.06	-2.04	-1.18	
5,699.0	8.60	174.80	5,342.8	-1,835.9	306.2	1,736.0	3.20	-3.19	-1.06	
5,793.0	7.00	177.60	5,436.0	-1,848.7	307.1	1,747.4	1.75	-1.70	2.98	
5,886.0	5.80	167.20	5,528.4	-1,858.9	308.4	1,756.9	1.79	-1.29	-11.18	
5,980.0	4.10	157.30	5,622.0	-1,866.6	310.7	1,764.7	2.02	-1.81	-10.53	
6,074.0	2.40	152.40	5,715.9	-1,871.5	313.0	1,770.0	1.83	-1.81	-5.21	
6,167.0	1.20	177.60	5,808.8	-1,874.2	313.9	1,772.8	1.52	-1.29	27.10	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Melbon Ranch 8-8-17
Project:	SEC.17-T2N-R65W	TVD Reference:	WELL @ 4914.0ft (Original Well Elev)
Site:	Melbon Ranch 8-4-17 Pad Sec.17-T2N-R65W	MD Reference:	WELL @ 4914.0ft (Original Well Elev)
Well:	Melbon Ranch 8-8-17	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)
6,261.0	1.20	253.10	5,902.8	-1,875.4	313.0	1,773.5	1.56	0.00	80.32
6,355.0	0.80	246.70	5,996.8	-1,876.0	311.4	1,773.1	0.44	-0.43	-6.81
6,358.0	0.80	246.18	5,999.8	-1,876.0	311.4	1,773.1	0.28	-0.14	-17.19
PERMIT TARGET BHL 50'FSL & 50'FEL									
6,358.2	0.80	246.18	6,000.0	-1,876.0	311.4	1,773.1	0.00	0.00	0.00
DRILL TARGET BHL 100'FSL & 100'FEL									
6,449.0	0.70	228.00	6,090.8	-1,876.6	310.4	1,773.2	0.28	-0.11	-20.03
6,543.0	0.80	254.90	6,184.8	-1,877.2	309.4	1,773.1	0.39	0.11	28.62
6,637.0	0.40	227.00	6,278.8	-1,877.6	308.5	1,773.0	0.52	-0.43	-29.68
6,731.0	0.70	257.20	6,372.8	-1,877.9	307.7	1,772.9	0.43	0.32	32.13
6,826.0	0.20	219.00	6,467.8	-1,878.2	307.0	1,772.8	0.59	-0.53	-40.21
6,920.0	0.20	247.50	6,561.8	-1,878.4	306.8	1,772.8	0.10	0.00	30.32
7,014.0	0.10	14.90	6,655.8	-1,878.4	306.6	1,772.7	0.29	-0.11	135.53
7,109.0	0.40	262.30	6,750.8	-1,878.3	306.3	1,772.5	0.47	0.32	-118.53
7,203.0	0.10	206.30	6,844.8	-1,878.4	306.0	1,772.5	0.38	-0.32	-59.57
7,297.0	0.50	195.50	6,938.8	-1,878.9	305.8	1,772.8	0.43	0.43	-11.49
7,326.3	0.46	201.21	6,968.0	-1,879.2	305.7	1,772.9	0.21	-0.13	19.53
TARGET CIRCLE 100'FSL & 100'FEL									
7,391.0	0.40	217.20	7,032.8	-1,879.6	305.5	1,773.2	0.21	-0.10	24.69
7,486.0	0.50	273.40	7,127.8	-1,879.8	304.9	1,773.1	0.46	0.11	59.16
7,580.0	0.60	317.40	7,221.8	-1,879.4	304.2	1,772.4	0.45	0.11	46.81
7,674.0	0.90	310.70	7,315.7	-1,878.6	303.3	1,771.2	0.33	0.32	-7.13
7,769.0	0.80	342.70	7,410.7	-1,877.5	302.5	1,769.8	0.50	-0.11	33.68
7,863.0	1.50	3.10	7,504.7	-1,875.6	302.4	1,768.2	0.85	0.74	21.70
7,957.0	1.20	357.80	7,598.7	-1,873.4	302.4	1,766.3	0.35	-0.32	-5.64
8,051.0	1.30	358.80	7,692.7	-1,871.3	302.3	1,764.5	0.11	0.11	1.06
8,146.0	1.60	348.20	7,787.6	-1,869.0	302.0	1,762.3	0.42	0.32	-11.16
8,175.0	1.40	351.80	7,816.6	-1,868.2	301.9	1,761.6	0.76	-0.69	12.41
8,201.1	1.40	351.80	7,842.7	-1,867.6	301.8	1,761.0	0.00	0.00	0.00
HARDLINES 100'S & 100'E OF PERMIT BHL									
8,220.0	1.40	351.80	7,861.6	-1,867.1	301.8	1,760.6	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____