

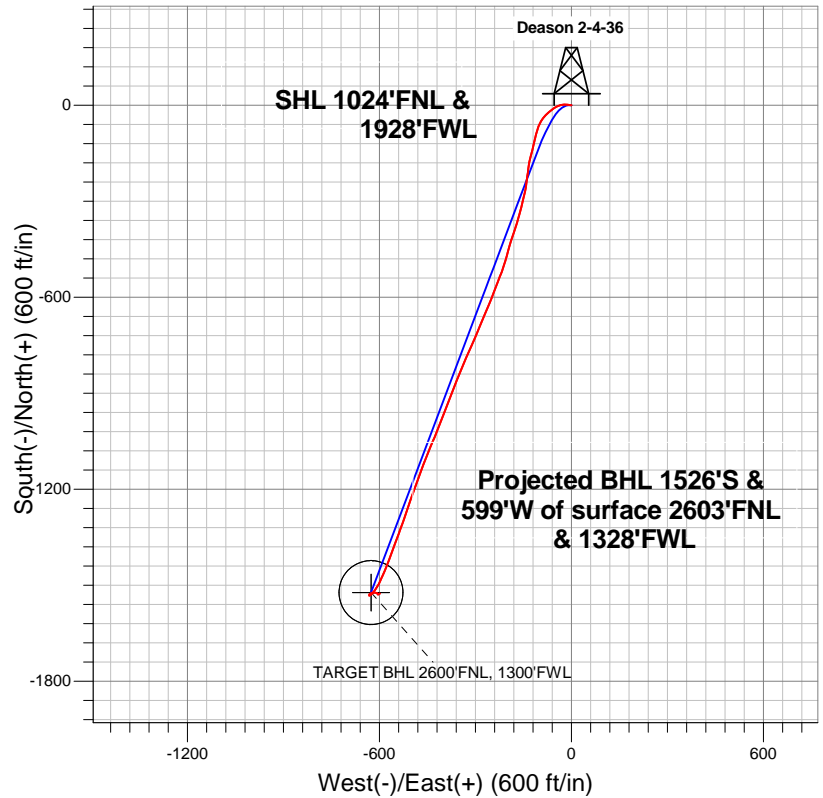


Well Name: Deason 2-4-36

Surface Location: Deason 2-36 Pad Sec.36-T2N-R69W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 5016.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1279587.74	3121002.18	40.100050	-105.067450	
Original Well Elev				WELL @ 5029.0ft (Original Well Elev)		

EnCana Oil & Gas Boulder County, CO



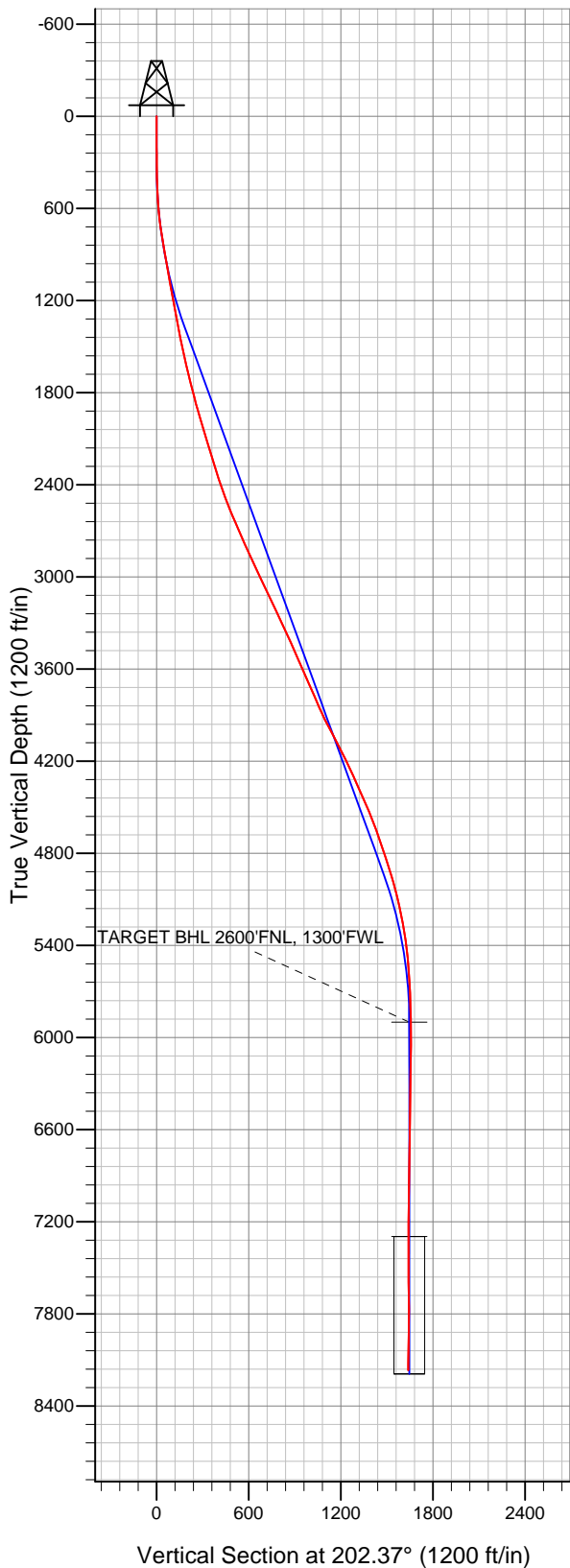
LEGEND

- Wellbore #1
- Deason 2-4-36, Wellbore #1, Plan #1 (8-16-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
8467'MD & 8167'TVD @ 1639'VS
0.90 deg Inc 74.80 deg AZ

Project: SEC.36-T2N-R69W
Site: Deason 2-36 Pad Sec.36-T2N-R69W
Well: Deason 2-4-36
Plan: Wellbore #1





EnCana Oil & Gas Boulder County, CO

SEC.36-T2N-R69W

Deason 2-36 Pad Sec.36-T2N-R69W

Deason 2-4-36

Wellbore #1

Survey: Survey #1

Standard Survey Report

24 August, 2012

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Deason 2-4-36
Project:	SEC.36-T2N-R69W	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	Deason 2-36 Pad Sec.36-T2N-R69W	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Well:	Deason 2-4-36	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.36-T2N-R69W, Boulder 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		Deason 2-36 Pad Sec.36-T2N-R69W			
Site Position:		Northing:		1,279,620.53ft	
From:	Lat/Long	Easting:		Longitude:	
		3,121,002.02ft		-105.067450°	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.28 °	

Well	Deason 2-4-36				
Well Position	+N/-S	0.0 ft	Northing:	1,279,587.74 ft	Latitude: 40.100050
	+E/-W	0.0 ft	Easting:	3,121,002.18 ft	Longitude: -105.067450
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 5,016.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/16/2012	8.85	66.72	52,822

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	202.37

Survey Program		Date	8/24/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
108.0	8,467.0	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	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	108.0	0.70	269.70	108.0	0.0	-0.7	0.3	0.65	0.65	0.00
	200.0	1.50	283.90	200.0	0.3	-2.4	0.6	0.91	0.87	15.43
	291.0	2.70	277.10	290.9	0.8	-5.7	1.4	1.34	1.32	-7.47
	383.0	4.30	277.40	382.7	1.5	-11.2	2.8	1.74	1.74	0.33
	475.0	5.60	273.80	474.4	2.3	-19.1	5.2	1.45	1.41	-3.91
	566.0	7.50	261.80	564.8	1.7	-29.5	9.6	2.56	2.09	-13.19
	657.0	8.90	246.30	654.9	-1.9	-41.8	17.7	2.86	1.54	-17.03
	752.0	10.10	236.00	748.6	-9.6	-55.4	29.9	2.19	1.26	-10.84
	872.0	11.00	228.20	866.6	-23.1	-72.7	49.0	1.41	0.75	-6.50
	958.0	10.90	222.40	951.0	-34.5	-84.3	64.0	1.29	-0.12	-6.74
	1,044.0	10.60	211.50	1,035.5	-47.3	-93.9	79.5	2.39	-0.35	-12.67
	1,129.0	10.10	204.30	1,119.1	-60.8	-101.0	94.6	1.63	-0.59	-8.47

Company:	EnCana Oil & Gas Boulder County, CO	Local Co-ordinate Reference:	Well Deason 2-4-36
Project:	SEC.36-T2N-R69W	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	Deason 2-36 Pad Sec.36-T2N-R69W	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Well:	Deason 2-4-36	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)
1,215.0	10.30	197.60	1,203.8	-75.0	-106.5	109.8	1.40	0.23	-7.79
1,300.0	10.50	193.80	1,287.4	-89.7	-110.6	125.1	0.84	0.24	-4.47
1,386.0	11.10	193.10	1,371.8	-105.4	-114.4	141.0	0.71	0.70	-0.81
1,472.0	11.60	193.10	1,456.2	-121.9	-118.2	157.7	0.58	0.58	0.00
1,557.0	12.90	194.30	1,539.2	-139.4	-122.5	175.5	1.56	1.53	1.41
1,643.0	13.60	195.20	1,622.9	-158.5	-127.5	195.1	0.85	0.81	1.05
1,729.0	13.90	189.90	1,706.5	-178.4	-131.9	215.2	1.51	0.35	-6.16
1,814.0	14.50	188.00	1,788.9	-199.0	-135.2	235.5	0.89	0.71	-2.24
1,900.0	15.70	186.60	1,871.9	-221.2	-138.0	257.1	1.46	1.40	-1.63
1,986.0	17.00	187.60	1,954.4	-245.2	-141.0	280.4	1.55	1.51	1.16
2,071.0	17.10	192.50	2,035.7	-269.7	-145.4	304.8	1.69	0.12	5.76
2,157.0	17.10	194.10	2,117.9	-294.4	-151.2	329.7	0.55	0.00	1.86
2,242.0	16.70	193.20	2,199.2	-318.4	-157.0	354.2	0.56	-0.47	-1.06
2,328.0	16.80	195.50	2,281.6	-342.4	-163.1	378.7	0.78	0.12	2.67
2,414.0	18.60	198.20	2,363.5	-367.4	-170.7	404.7	2.30	2.09	3.14
2,499.0	20.60	198.30	2,443.6	-394.5	-179.7	433.2	2.35	2.35	0.12
2,585.0	21.50	197.60	2,523.8	-423.8	-189.2	464.0	1.09	1.05	-0.81
2,671.0	22.90	194.80	2,603.5	-455.0	-198.2	496.2	2.04	1.63	-3.26
2,756.0	23.90	195.90	2,681.5	-487.6	-207.2	529.7	1.28	1.18	1.29
2,842.0	23.00	201.90	2,760.4	-519.9	-218.2	563.9	2.97	-1.05	6.98
2,928.0	24.40	200.80	2,839.1	-552.1	-230.8	598.4	1.71	1.63	-1.28
3,013.0	25.20	200.10	2,916.3	-585.5	-243.2	634.1	1.00	0.94	-0.82
3,099.0	25.50	203.60	2,994.0	-619.7	-257.0	670.9	1.78	0.35	4.07
3,185.0	25.20	202.40	3,071.7	-653.6	-271.3	707.7	0.69	-0.35	-1.40
3,270.0	25.60	202.00	3,148.5	-687.4	-285.1	744.1	0.51	0.47	-0.47
3,356.0	25.00	204.10	3,226.3	-721.2	-299.5	780.9	1.26	-0.70	2.44
3,441.0	24.90	202.70	3,303.3	-754.1	-313.7	816.7	0.70	-0.12	-1.65
3,527.0	25.00	204.50	3,381.3	-787.3	-328.3	853.0	0.89	0.12	2.09
3,613.0	24.10	203.40	3,459.5	-820.0	-342.8	888.7	1.17	-1.05	-1.28
3,698.0	23.40	201.70	3,537.3	-851.6	-355.9	922.9	1.15	-0.82	-2.00
3,784.0	23.70	200.50	3,616.2	-883.6	-368.3	957.3	0.66	0.35	-1.40
3,870.0	23.50	200.50	3,695.0	-915.9	-380.3	991.7	0.23	-0.23	0.00
3,955.0	23.70	202.20	3,772.9	-947.6	-392.7	1,025.7	0.83	0.24	2.00
4,041.0	24.40	201.50	3,851.4	-980.1	-405.8	1,060.8	0.88	0.81	-0.81
4,127.0	25.50	200.80	3,929.4	-1,013.9	-418.8	1,097.0	1.32	1.28	-0.81
4,212.0	28.00	202.90	4,005.3	-1,049.4	-433.1	1,135.3	3.14	2.94	2.47
4,298.0	28.70	201.00	4,081.0	-1,087.3	-448.4	1,176.1	1.33	0.81	-2.21
4,383.0	26.50	203.40	4,156.3	-1,123.8	-463.2	1,215.5	2.90	-2.59	2.82
4,469.0	24.10	199.90	4,234.0	-1,157.9	-476.8	1,252.2	3.29	-2.79	-4.07
4,555.0	24.80	198.30	4,312.3	-1,191.5	-488.4	1,287.8	1.12	0.81	-1.86
4,640.0	23.70	199.60	4,389.8	-1,224.5	-499.8	1,322.6	1.44	-1.29	1.53
4,726.0	24.30	198.90	4,468.4	-1,257.6	-511.3	1,357.5	0.77	0.70	-0.81
4,812.0	22.20	199.40	4,547.4	-1,289.6	-522.4	1,391.4	2.45	-2.44	0.58
4,897.0	20.80	200.50	4,626.5	-1,318.9	-533.1	1,422.5	1.71	-1.65	1.29
4,983.0	18.90	198.50	4,707.4	-1,346.4	-542.8	1,451.7	2.35	-2.21	-2.33
5,069.0	18.40	202.20	4,788.9	-1,372.2	-552.4	1,479.2	1.49	-0.58	4.30
5,154.0	17.80	199.40	4,869.6	-1,396.9	-561.8	1,505.6	1.24	-0.71	-3.29
5,240.0	16.50	200.80	4,951.8	-1,420.7	-570.5	1,530.9	1.59	-1.51	1.63
5,326.0	15.00	200.80	5,034.6	-1,442.5	-578.7	1,554.2	1.74	-1.74	0.00
5,411.0	13.00	204.30	5,117.1	-1,461.5	-586.6	1,574.8	2.55	-2.35	4.12
5,497.0	11.50	202.70	5,201.1	-1,478.3	-593.9	1,593.0	1.79	-1.74	-1.86
5,582.0	10.10	207.80	5,284.6	-1,492.7	-600.6	1,608.9	1.99	-1.65	6.00
5,668.0	8.60	210.60	5,369.5	-1,504.9	-607.4	1,622.8	1.82	-1.74	3.26
5,754.0	5.80	219.10	5,454.8	-1,513.8	-613.4	1,633.3	3.47	-3.26	9.88

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Design:	Wellbore #1	Database:	Landmark

Survey										
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5,839.0	4.40	217.90	5,539.4	-1,519.7	-618.1	1,640.6	1.65	-1.65	-1.41	
5,925.0	3.80	220.30	5,625.2	-1,524.5	-622.0	1,646.5	0.73	-0.70	2.79	
6,008.0	2.90	231.90	5,708.1	-1,527.9	-625.4	1,650.9	1.35	-1.08	13.98	
6,094.0	1.90	237.70	5,794.0	-1,530.0	-628.4	1,654.0	1.20	-1.16	6.74	
6,179.0	1.70	230.00	5,879.0	-1,531.5	-630.5	1,656.2	0.37	-0.24	-9.06	
6,200.0	1.45	233.49	5,899.9	-1,531.9	-631.0	1,656.7	1.26	-1.17	16.64	
TARGET BHL 2600'FNL, 1300'FWL										
6,351.0	0.80	344.90	6,050.9	-1,532.0	-632.8	1,657.5	1.26	-0.43	73.77	
6,522.0	0.80	26.30	6,221.9	-1,529.8	-632.6	1,655.4	0.33	0.00	24.21	
6,693.0	1.10	48.40	6,392.9	-1,527.6	-630.8	1,652.7	0.27	0.18	12.92	
6,864.0	1.20	64.90	6,563.9	-1,525.8	-628.0	1,649.9	0.20	0.06	9.65	
7,035.0	1.40	77.20	6,734.8	-1,524.5	-624.3	1,647.4	0.20	0.12	7.19	
7,207.0	1.20	72.10	6,906.8	-1,523.5	-620.5	1,645.0	0.13	-0.12	-2.97	
7,378.0	1.20	86.90	7,077.7	-1,522.9	-617.0	1,643.1	0.18	0.00	8.65	
7,549.0	1.20	101.00	7,248.7	-1,523.1	-613.5	1,642.0	0.17	0.00	8.25	
7,596.0	1.28	101.45	7,295.7	-1,523.3	-612.5	1,641.8	0.18	0.18	0.96	
TARGET CIRCLE 2600'FNL & 1300'FWL										
7,720.0	1.50	102.40	7,419.6	-1,523.9	-609.6	1,641.3	0.18	0.18	0.77	
7,893.0	1.10	167.50	7,592.6	-1,526.1	-607.0	1,642.2	0.83	-0.23	37.63	
8,069.0	0.90	131.00	7,768.6	-1,528.6	-605.6	1,644.1	0.37	-0.11	-20.74	
8,244.0	1.50	46.80	7,943.6	-1,527.9	-602.9	1,642.4	0.95	0.34	-48.11	
8,425.0	0.90	74.80	8,124.5	-1,525.9	-599.8	1,639.4	0.45	-0.33	15.47	
8,467.0	0.90	74.80	8,166.5	-1,525.8	-599.1	1,639.0	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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