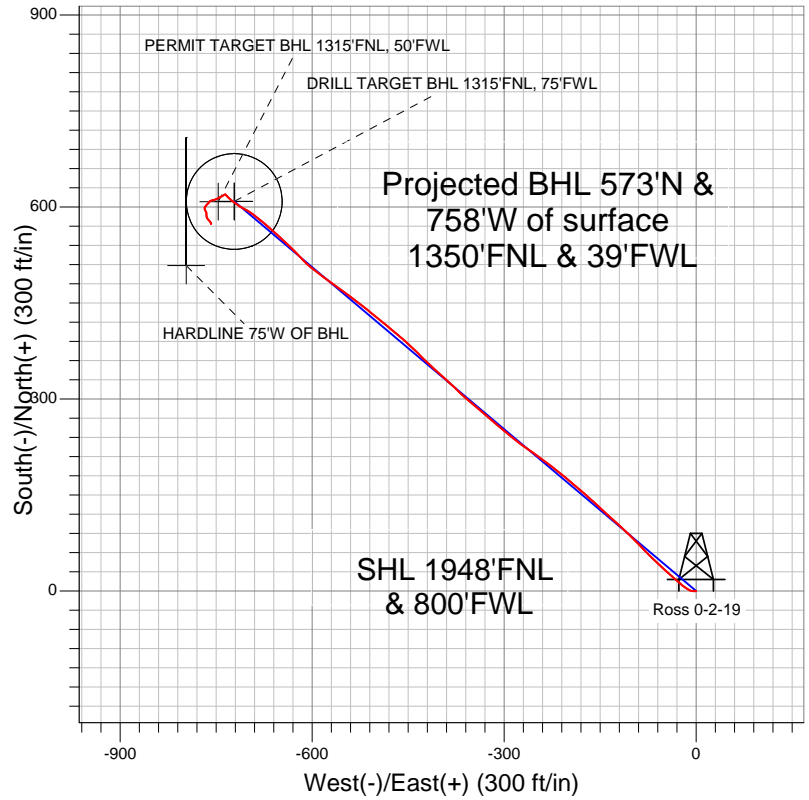


Well Name: Ross 0-2-19

Surface Location: Ross 11-19 Pad Sec.19-T2N-R68W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4988.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1288977.59	3125131.40	40.125770	-105.052520	
		Original Well Elev	WELL @ 5001.0ft (Original Well Elev)			

EnCana Oil & Gas Weld County CO



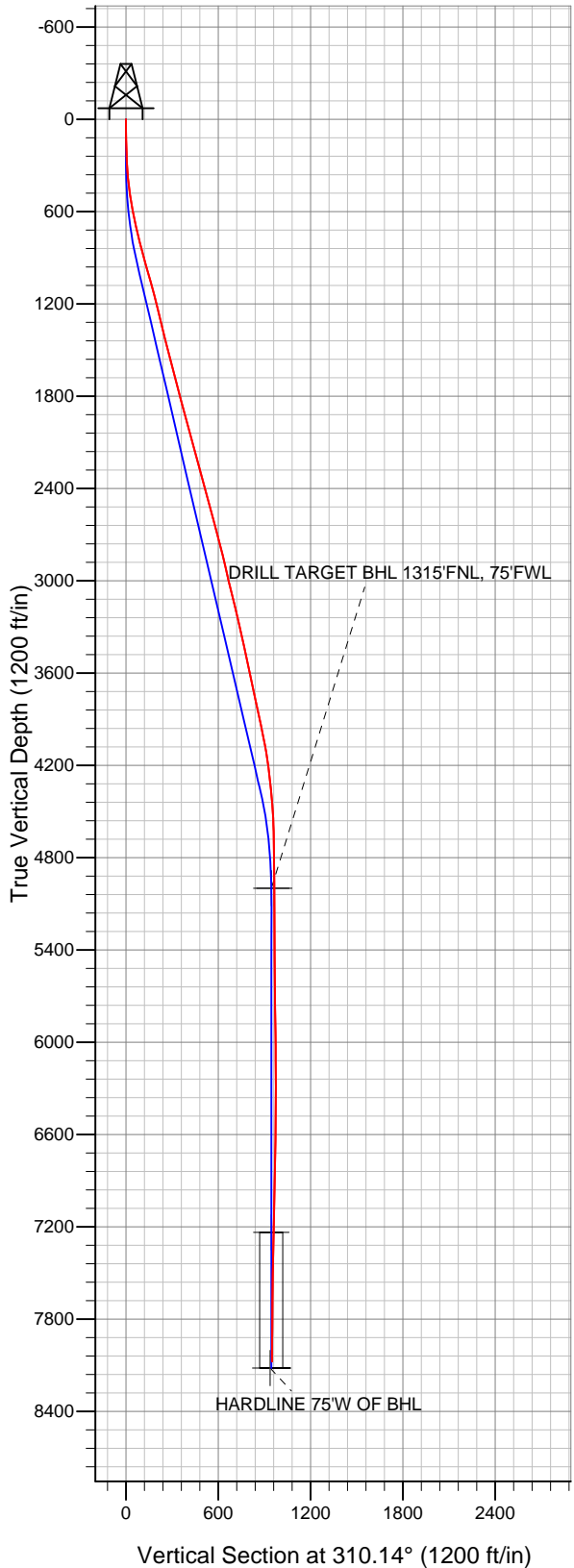
LEGEND

- Survey #1
- Ross 0-2-19, Wellbore #1, Plan #1 (1-26-12) R V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 8190'MD & 8077'TVD @ 949'VS
 0.30 deg Inc 188.70 deg AZ

Project: SEC.19-T2N-R68W
 Site: Ross 11-19 Pad Sec.19-T2N-R68W
 Well: Ross 0-2-19
 Plan: Wellbore #1





EnCana Oil & Gas Weld County CO

SEC.19-T2N-R68W

Ross 11-19 Pad Sec.19-T2N-R68W

Ross 0-2-19

Wellbore #1

Survey: Survey #1

Standard Survey Report

01 February, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Ross 0-2-19
Project:	SEC.19-T2N-R68W	TVD Reference:	WELL @ 5001.0ft (Original Well Elev)
Site:	Ross 11-19 Pad Sec.19-T2N-R68W	MD Reference:	WELL @ 5001.0ft (Original Well Elev)
Well:	Ross 0-2-19	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.19-T2N-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		Ross 11-19 Pad Sec.19-T2N-R68W			
Site Position:		Northing:		1,288,988.53ft	
From:	Lat/Long	Easting:		Longitude:	
		3,125,131.35ft		-105.052520	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 ft		"		0.29 °	

Well	Ross 0-2-19					
Well Position	+N/-S	0.0 ft	Northing:	1,288,977.59 ft	Latitude:	40.125770
	+E/-W	0.0 ft	Easting:	3,125,131.40 ft	Longitude:	-105.052520
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,988.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/6/2012	8.92	66.76	52,895

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	310.14	

Survey Program		Date	2/1/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
131.0	8,190.0	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
131.0	1.40	255.90	131.0	-0.4	-1.6	0.9	1.07	1.07	0.00
220.0	2.30	273.30	219.9	-0.6	-4.4	3.0	1.18	1.01	19.55
312.0	3.90	293.00	311.8	0.8	-9.1	7.5	2.06	1.74	21.41
404.0	6.00	303.90	403.5	4.7	-16.0	15.2	2.49	2.28	11.85
496.0	7.90	310.90	494.8	11.5	-24.8	26.3	2.26	2.07	7.61
588.0	11.10	311.40	585.5	21.5	-36.2	41.5	3.48	3.48	0.54
679.0	12.50	312.30	674.6	33.9	-50.0	60.1	1.55	1.54	0.99
788.0	13.70	314.30	780.7	50.9	-68.0	84.8	1.18	1.10	1.83
902.0	15.70	316.20	891.0	71.4	-88.3	113.6	1.80	1.75	1.67
989.0	15.60	314.80	974.8	88.2	-104.8	137.0	0.45	-0.11	-1.61
1,076.0	15.30	311.80	1,058.6	104.1	-121.6	160.1	0.98	-0.34	-3.45
1,164.0	14.70	312.70	1,143.6	119.4	-138.5	182.8	0.73	-0.68	1.02

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Ross 0-2-19
Project:	SEC.19-T2N-R68W	TVD Reference:	WELL @ 5001.0ft (Original Well Elev)
Site:	Ross 11-19 Pad Sec.19-T2N-R68W	MD Reference:	WELL @ 5001.0ft (Original Well Elev)
Well:	Ross 0-2-19	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)
1,251.0	14.50	312.30	1,227.8	134.2	-154.7	204.8	0.26	-0.23	-0.46
1,338.0	13.50	311.10	1,312.2	148.2	-170.4	225.8	1.20	-1.15	-1.38
1,425.0	14.10	310.20	1,396.7	161.7	-186.1	246.5	0.73	0.69	-1.03
1,513.0	14.10	310.60	1,482.1	175.6	-202.5	268.0	0.11	0.00	0.45
1,600.0	14.30	307.90	1,566.4	189.1	-219.0	289.3	0.80	0.23	-3.10
1,687.0	14.70	306.70	1,650.7	202.3	-236.3	311.1	0.58	0.46	-1.38
1,775.0	14.70	305.10	1,735.8	215.4	-254.4	333.3	0.46	0.00	-1.82
1,862.0	14.10	305.80	1,820.0	228.0	-272.0	354.9	0.72	-0.69	0.80
1,949.0	14.90	309.90	1,904.3	241.3	-289.2	376.7	1.50	0.92	4.71
2,037.0	15.50	309.70	1,989.2	256.1	-306.9	399.7	0.68	0.68	-0.23
2,124.0	15.70	312.00	2,073.0	271.4	-324.6	423.1	0.75	0.23	2.64
2,211.0	16.00	309.30	2,156.7	286.9	-342.6	446.9	0.91	0.34	-3.10
2,298.0	14.90	311.10	2,240.5	301.8	-360.4	470.0	1.38	-1.26	2.07
2,386.0	14.70	315.00	2,325.6	317.1	-376.8	492.5	1.15	-0.23	4.43
2,473.0	14.80	311.10	2,409.8	332.3	-393.0	514.6	1.15	0.11	-4.48
2,560.0	15.10	312.70	2,493.8	347.2	-409.7	537.0	0.59	0.34	1.84
2,648.0	16.10	314.40	2,578.6	363.6	-426.8	560.6	1.25	1.14	1.93
2,735.0	15.10	314.60	2,662.4	380.0	-443.5	584.0	1.15	-1.15	0.23
2,822.0	14.20	311.60	2,746.5	395.0	-459.5	605.9	1.35	-1.03	-3.45
2,910.0	13.80	308.10	2,831.9	408.6	-475.9	627.2	1.06	-0.45	-3.98
2,997.0	12.90	309.00	2,916.6	421.2	-491.6	647.3	1.06	-1.03	1.03
3,084.0	13.40	310.20	3,001.3	433.8	-506.8	667.1	0.65	0.57	1.38
3,171.0	14.00	306.70	3,085.8	446.6	-523.0	687.7	1.18	0.69	-4.02
3,259.0	13.50	307.70	3,171.3	459.2	-539.6	708.6	0.63	-0.57	1.14
3,346.0	13.30	305.80	3,255.9	471.3	-555.8	728.7	0.56	-0.23	-2.18
3,433.0	12.30	306.50	3,340.8	482.6	-571.3	747.9	1.16	-1.15	0.80
3,521.0	12.70	305.60	3,426.7	493.8	-586.7	766.9	0.51	0.45	-1.02
3,608.0	12.10	309.50	3,511.6	505.2	-601.6	785.6	1.18	-0.69	4.48
3,695.0	11.70	316.20	3,596.8	517.4	-614.7	803.5	1.65	-0.46	7.70
3,783.0	12.00	316.40	3,682.9	530.4	-627.2	821.4	0.34	0.34	0.23
3,870.0	12.60	313.90	3,767.9	543.6	-640.3	839.9	0.92	0.69	-2.87
3,957.0	12.40	310.40	3,852.8	556.2	-654.2	858.7	0.90	-0.23	-4.02
4,044.0	11.70	312.00	3,937.9	568.2	-667.9	876.8	0.89	-0.80	1.84
4,132.0	11.30	310.20	4,024.2	579.7	-681.1	894.4	0.61	-0.45	-2.05
4,219.0	9.80	304.40	4,109.7	589.4	-693.7	910.3	2.11	-1.72	-6.67
4,306.0	7.40	299.70	4,195.7	596.3	-704.7	923.2	2.87	-2.76	-5.40
4,394.0	6.90	299.50	4,283.0	601.8	-714.2	933.9	0.57	-0.57	-0.23
4,481.0	5.50	309.70	4,369.5	607.0	-722.0	943.2	2.04	-1.61	11.72
4,568.0	4.10	312.00	4,456.2	611.7	-727.5	950.5	1.62	-1.61	2.64
4,656.0	3.00	316.40	4,544.0	615.5	-731.4	955.9	1.29	-1.25	5.00
4,743.0	1.90	320.20	4,631.0	618.3	-733.9	959.6	1.28	-1.26	4.37
4,830.0	0.80	284.40	4,717.9	619.5	-735.4	961.6	1.54	-1.26	-41.15
5,005.0	1.00	226.00	4,892.9	618.8	-737.7	962.8	0.51	0.11	-33.37
5,112.0	1.05	236.85	4,999.9	617.6	-739.2	963.2	0.19	0.05	10.14
DRILL TARGET BHL 1315'FNL, 75'FWL									
5,112.3	1.05	236.88	5,000.2	617.6	-739.2	963.2	0.19	0.06	9.59
PERMIT TARGET BHL 1315'FNL, 50'FWL									
5,179.0	1.10	243.00	5,066.9	617.0	-740.3	963.7	0.19	0.07	9.18
5,354.0	1.10	239.00	5,241.9	615.3	-743.2	964.8	0.04	0.00	-2.29
5,529.0	1.00	249.00	5,416.8	613.9	-746.1	966.1	0.12	-0.06	5.71
5,703.0	1.10	237.60	5,590.8	612.5	-748.9	967.4	0.13	0.06	-6.55
5,878.0	1.20	256.10	5,765.8	611.1	-752.1	968.9	0.22	0.06	10.57
6,052.0	1.70	256.60	5,939.7	610.1	-756.4	971.5	0.29	0.29	0.29
6,227.0	0.70	228.60	6,114.7	608.8	-759.7	973.2	0.65	-0.57	-16.00

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Well:	Ross 0-2-19	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)	
6,402.0	1.20	214.90	6,289.6	606.6	-761.6	973.2	0.31	0.29	-7.83	
6,576.0	1.40	232.20	6,463.6	603.8	-764.3	973.5	0.25	0.11	9.94	
6,751.0	1.90	207.00	6,638.5	599.9	-767.3	973.3	0.50	0.29	-14.40	
6,925.0	2.60	149.90	6,812.4	593.9	-766.6	968.9	1.29	0.40	-32.82	
7,100.0	1.60	191.40	6,987.3	588.1	-765.1	964.0	1.00	-0.57	23.71	
7,275.0	1.50	156.20	7,162.2	583.6	-764.7	960.8	0.54	-0.06	-20.11	
7,348.8	1.34	147.30	7,236.0	582.0	-763.8	959.1	0.37	-0.21	-12.05	
TARGET CIRCLE 1315'FNL, 75'FWL										
7,449.0	1.20	132.10	7,336.2	580.3	-762.4	956.9	0.37	-0.14	-15.18	
7,624.0	0.80	139.50	7,511.2	578.1	-760.3	953.9	0.24	-0.23	4.23	
7,798.0	0.80	148.30	7,685.1	576.2	-758.8	951.5	0.07	0.00	5.06	
7,973.0	0.40	156.20	7,860.1	574.6	-757.9	949.8	0.23	-0.23	4.51	
8,140.0	0.30	188.70	8,027.1	573.6	-757.8	949.1	0.13	-0.06	19.46	
8,190.0	0.30	188.70	8,077.1	573.3	-757.8	948.9	0.00	0.00	0.00	
HARDLINE 75'W OF BHL										

Checked By: _____	Approved By: _____	Date: _____
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