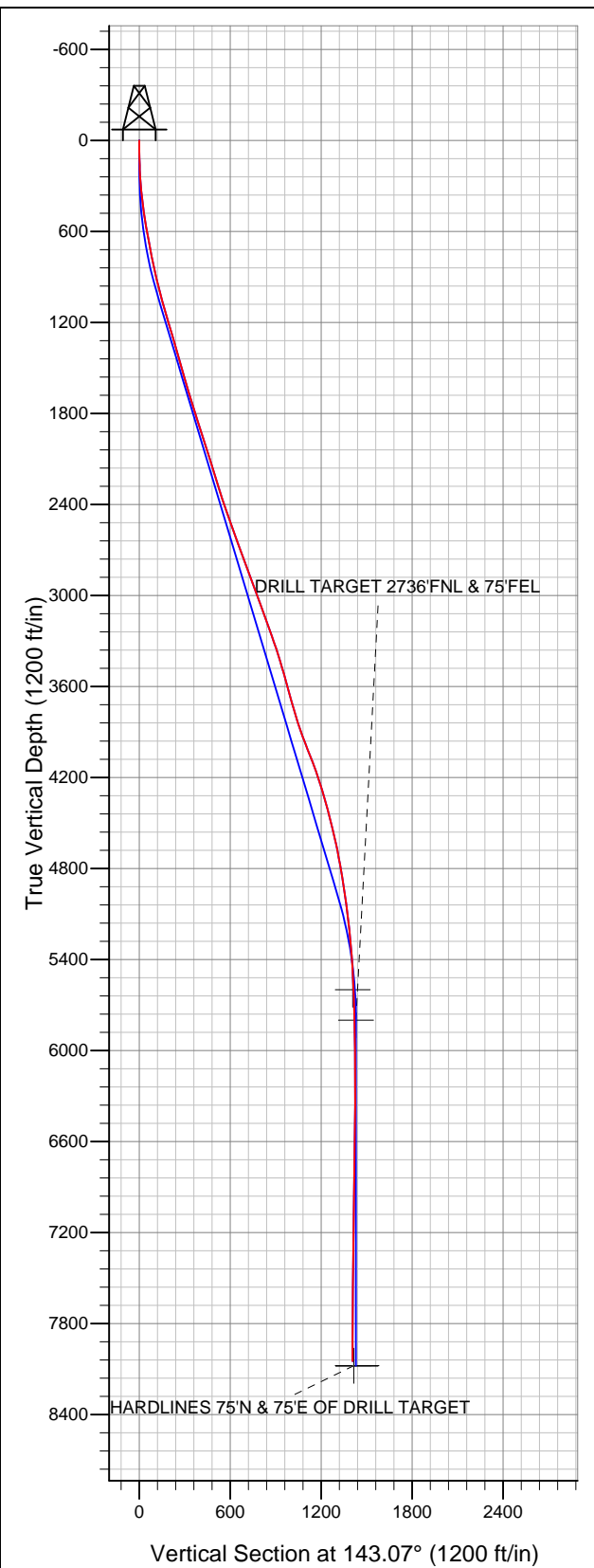


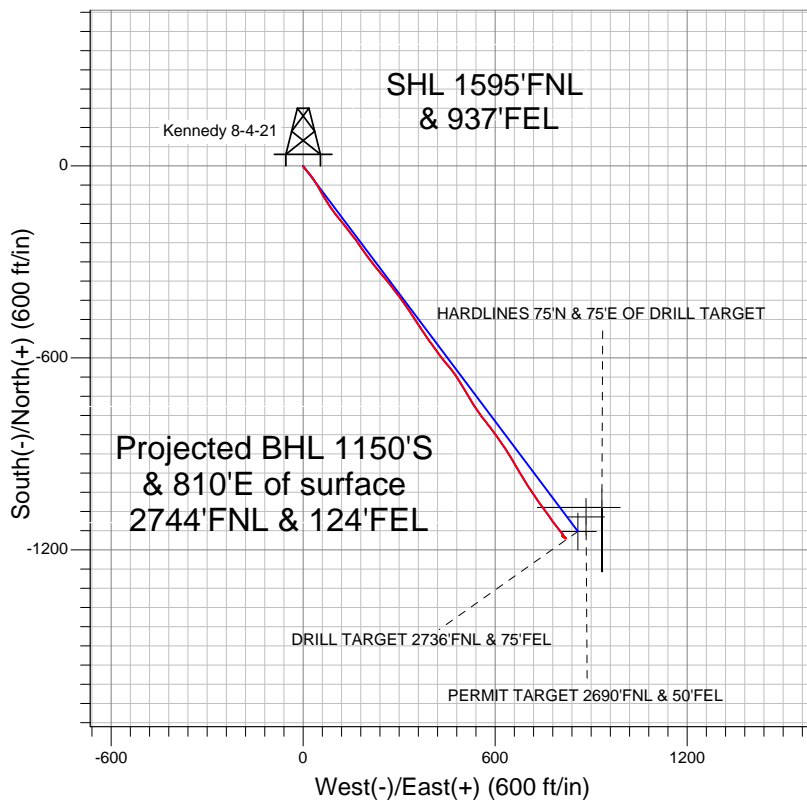
Well Name: Kennedy 8-4-21

Surface Location: Kennedy 6-4-21 Pad Sec.21-T2N-R68W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4891.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1289544.51	3139227.73	40.127120	-105.002100	
Original Well Elev WELL @ 4904.0ft (Original Well Elev)						



EnCana Oil & Gas Weld County CO



LEGEND

- Survey #1
- Kennedy 8-4-21, Wellbore #1, Plan #1 (10-11-11) V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
8253'MD & 8048'TVD @ 1406'VS
0.50 deg Inc 139.20 deg AZ

Project: SEC.21-T2N-R68W
Site: Kennedy 6-4-21 Pad Sec.21-T2N-R68W
Well: Kennedy 8-4-21
Plan: Wellbore #1



EnCana Oil & Gas Weld County CO

SEC.21-T2N-R68W

Kennedy 6-4-21 Pad Sec.21-T2N-R68W

Kennedy 8-4-21

Wellbore #1

Survey: Survey #1

Standard Survey Report

06 January, 2012

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Kennedy 8-4-21
Project:	SEC.21-T2N-R68W	TVD Reference:	WELL @ 4904.0ft (Original Well Elev)
Site:	Kennedy 6-4-21 Pad Sec.21-T2N-R68W	MD Reference:	WELL @ 4904.0ft (Original Well Elev)
Well:	Kennedy 8-4-21	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.21-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		Kennedy 6-4-21 Pad Sec.21-T2N-R68W			
Site Position:		Northing:	1,289,544.46ft	Latitude:	40.127120°
From:	Lat/Long	Easting:	3,139,216.55ft	Longitude:	-105.002140°
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.32 °

Well	Kennedy 8-4-21					
Well Position	+N-S	0.0 ft	Northing:	1,289,544.51 ft	Latitude:	40.127120
	+E-W	0.0 ft	Easting:	3,139,227.73 ft	Longitude:	-105.002100
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,891.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/11/2011	8.92	66.78	52,927

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	143.07

Survey Program		Date	1/5/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
72.0	8,253.0	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
72.0	0.50	195.10	72.0	-0.3	-0.1	0.2	0.69	0.69	0.00
163.0	1.50	149.90	163.0	-1.7	0.4	1.6	1.32	1.10	-49.67
255.0	3.90	143.60	254.9	-5.3	2.9	5.9	2.62	2.61	-6.85
346.0	5.90	139.70	345.5	-11.3	7.7	13.7	2.23	2.20	-4.29
438.0	7.50	139.20	436.9	-19.5	14.7	24.4	1.74	1.74	-0.54
530.0	9.10	142.70	527.9	-29.8	23.0	37.7	1.82	1.74	3.80
615.0	10.50	146.40	611.7	-41.6	31.4	52.1	1.81	1.65	4.35
691.0	11.30	147.10	686.3	-53.6	39.3	66.5	1.07	1.05	0.92
779.0	10.90	148.80	772.7	-68.0	48.3	83.4	0.59	-0.45	1.93
866.0	12.40	151.30	857.9	-83.2	57.0	100.8	1.82	1.72	2.87
953.0	13.60	150.20	942.7	-100.3	66.6	120.2	1.41	1.38	-1.26
1,041.0	15.30	146.00	1,027.9	-118.9	78.2	142.1	2.27	1.93	-4.77

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Kennedy 8-4-21
Project:	SEC.21-T2N-R68W	TVD Reference:	WELL @ 4904.0ft (Original Well Elev)
Site:	Kennedy 6-4-21 Pad Sec.21-T2N-R68W	MD Reference:	WELL @ 4904.0ft (Original Well Elev)
Well:	Kennedy 8-4-21	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)	
1,128.0	16.90	144.80	1,111.5	-138.8	91.9	166.2	1.88	1.84	-1.38	
1,215.0	16.20	140.60	1,194.9	-158.5	106.9	190.9	1.59	-0.80	-4.83	
1,303.0	16.40	141.50	1,279.3	-177.7	122.5	215.6	0.37	0.23	1.02	
1,390.0	16.40	142.00	1,362.8	-197.0	137.7	240.2	0.16	0.00	0.57	
1,477.0	15.90	142.90	1,446.3	-216.1	152.4	264.4	0.64	-0.57	1.03	
1,564.0	15.20	142.70	1,530.2	-234.7	166.5	287.7	0.81	-0.80	-0.23	
1,652.0	16.40	145.90	1,614.8	-254.2	180.5	311.6	1.68	1.36	3.64	
1,739.0	17.40	143.90	1,698.1	-274.9	195.0	336.9	1.33	1.15	-2.30	
1,826.0	18.10	143.60	1,780.9	-296.3	210.7	363.4	0.81	0.80	-0.34	
1,914.0	17.50	140.40	1,864.7	-317.5	227.3	390.3	1.30	-0.68	-3.64	
2,001.0	17.00	137.80	1,947.8	-337.0	244.1	416.0	1.06	-0.57	-2.99	
2,088.0	17.60	143.60	2,030.9	-357.0	260.5	441.9	2.10	0.69	6.67	
2,176.0	18.00	140.90	2,114.7	-378.2	277.0	468.8	1.04	0.45	-3.07	
2,263.0	17.10	145.00	2,197.6	-399.1	292.8	495.0	1.76	-1.03	4.71	
2,350.0	17.50	143.00	2,280.7	-420.1	308.0	520.8	0.82	0.46	-2.30	
2,437.0	18.30	144.80	2,363.5	-441.7	323.7	547.6	1.12	0.92	2.07	
2,525.0	18.60	146.00	2,447.0	-464.6	339.5	575.4	0.55	0.34	1.36	
2,612.0	19.70	149.40	2,529.1	-488.7	354.8	603.8	1.80	1.26	3.91	
2,699.0	19.90	144.30	2,611.0	-513.4	370.9	633.2	2.00	0.23	-5.86	
2,787.0	20.70	144.10	2,693.5	-538.1	388.7	663.7	0.91	0.91	-0.23	
2,874.0	20.10	145.30	2,775.1	-562.9	406.3	694.0	0.84	-0.69	1.38	
2,961.0	20.40	144.30	2,856.7	-587.5	423.6	724.1	0.53	0.34	-1.15	
3,049.0	20.00	139.50	2,939.3	-611.4	442.3	754.5	1.94	-0.45	-5.45	
3,136.0	20.00	142.00	3,021.1	-634.4	461.2	784.2	0.98	0.00	2.87	
3,223.0	20.00	145.50	3,102.8	-658.4	478.7	814.0	1.38	0.00	4.02	
3,310.0	20.00	150.20	3,184.6	-683.6	494.6	843.6	1.85	0.00	5.40	
3,398.0	20.00	149.20	3,267.3	-709.6	509.8	873.5	0.39	0.00	-1.14	
3,485.0	18.20	148.50	3,349.5	-733.9	524.5	901.8	2.09	-2.07	-0.80	
3,572.0	17.30	146.60	3,432.3	-756.3	538.7	928.2	1.23	-1.03	-2.18	
3,660.0	15.70	142.90	3,516.7	-776.7	553.1	953.2	2.17	-1.82	-4.20	
3,747.0	14.90	143.70	3,600.6	-795.1	566.8	976.2	0.95	-0.92	0.92	
3,834.0	16.70	140.20	3,684.3	-813.8	581.4	999.8	2.34	2.07	-4.02	
3,922.0	16.10	145.00	3,768.8	-833.5	596.5	1,024.7	1.68	-0.68	5.45	
4,009.0	17.90	143.90	3,851.9	-854.2	611.3	1,050.1	2.10	2.07	-1.26	
4,096.0	20.50	146.00	3,934.1	-877.6	627.7	1,078.7	3.09	2.99	2.41	
4,183.0	21.70	149.40	4,015.3	-904.1	644.4	1,109.9	1.97	1.38	3.91	
4,271.0	21.30	148.80	4,097.1	-931.7	661.0	1,142.0	0.52	-0.45	-0.68	
4,358.0	18.90	150.10	4,178.8	-957.5	676.2	1,171.7	2.81	-2.76	1.49	
4,445.0	17.30	147.30	4,261.5	-980.6	690.2	1,198.6	2.09	-1.84	-3.22	
4,533.0	15.90	148.80	4,345.9	-1,001.9	703.5	1,223.6	1.66	-1.59	1.70	
4,620.0	15.00	146.40	4,429.7	-1,021.5	715.9	1,246.7	1.27	-1.03	-2.76	
4,707.0	14.20	143.40	4,513.9	-1,039.4	728.5	1,268.6	1.27	-0.92	-3.45	
4,795.0	12.80	144.40	4,599.5	-1,056.0	740.6	1,289.1	1.61	-1.59	1.14	
4,882.0	11.30	144.40	4,684.6	-1,070.8	751.2	1,307.3	1.72	-1.72	0.00	
4,969.0	9.90	145.50	4,770.1	-1,083.9	760.4	1,323.3	1.63	-1.61	1.26	
5,056.0	9.20	143.60	4,855.9	-1,095.6	768.8	1,337.7	0.88	-0.80	-2.18	
5,144.0	8.90	144.40	4,942.8	-1,106.8	776.9	1,351.6	0.37	-0.34	0.91	
5,231.0	8.00	143.00	5,028.8	-1,117.1	784.5	1,364.3	1.06	-1.03	-1.61	
5,318.0	6.80	143.40	5,115.1	-1,126.1	791.2	1,375.6	1.38	-1.38	0.46	
5,406.0	5.90	144.40	5,202.6	-1,134.0	796.9	1,385.3	1.03	-1.02	1.14	
5,493.0	4.80	140.40	5,289.2	-1,140.4	801.8	1,393.4	1.33	-1.26	-4.60	
5,580.0	4.00	138.50	5,375.9	-1,145.5	806.2	1,400.1	0.93	-0.92	-2.18	
5,667.0	3.40	143.00	5,462.7	-1,149.8	809.7	1,405.7	0.77	-0.69	5.17	
5,755.0	2.80	142.70	5,550.6	-1,153.6	812.6	1,410.4	0.68	-0.68	-0.34	

Company:	EnCana Oil & Gas Weld County CO	Local Co-ordinate Reference:	Well Kennedy 8-4-21
Project:	SEC.21-T2N-R68W	TVD Reference:	WELL @ 4904.0ft (Original Well Elev)
Site:	Kennedy 6-4-21 Pad Sec.21-T2N-R68W	MD Reference:	WELL @ 4904.0ft (Original Well Elev)
Well:	Kennedy 8-4-21	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)
5,804.0	2.40	146.68	5,599.6	-1,155.4	813.9	1,412.6	0.90	-0.82	8.13
PERMIT TARGET 2690'FNL & 50'FEL									
5,842.0	2.10	150.80	5,637.5	-1,156.7	814.7	1,414.1	0.90	-0.79	10.84
6,005.0	1.43	122.06	5,800.4	-1,160.4	817.9	1,419.0	0.67	-0.41	-17.64
DRILL TARGET 2736'FNL & 75'FEL									
6,017.0	1.40	119.00	5,812.5	-1,160.5	818.1	1,419.2	0.67	-0.24	-25.37
6,191.0	0.90	143.00	5,986.4	-1,162.7	820.8	1,422.6	0.39	-0.29	13.79
6,366.0	0.30	256.80	6,161.4	-1,163.9	821.2	1,423.7	0.60	-0.34	65.03
6,540.0	0.40	295.80	6,335.4	-1,163.7	820.2	1,423.0	0.14	0.06	22.41
6,715.0	0.70	275.20	6,510.4	-1,163.3	818.6	1,421.8	0.20	0.17	-11.77
6,890.0	0.80	315.10	6,685.4	-1,162.4	816.6	1,419.8	0.30	0.06	22.80
7,064.0	0.70	292.50	6,859.4	-1,161.1	814.8	1,417.7	0.18	-0.06	-12.99
7,239.0	0.90	305.10	7,034.4	-1,159.9	812.7	1,415.5	0.15	0.11	7.20
7,413.0	1.00	315.30	7,208.3	-1,158.0	810.5	1,412.7	0.11	0.06	5.86
7,588.0	0.50	328.10	7,383.3	-1,156.3	809.0	1,410.4	0.30	-0.29	7.31
7,763.0	0.80	2.90	7,558.3	-1,154.4	808.7	1,408.7	0.28	0.17	19.89
7,937.0	0.80	11.70	7,732.3	-1,152.0	809.0	1,407.0	0.07	0.00	5.06
8,112.0	0.60	16.30	7,907.3	-1,150.0	809.5	1,405.6	0.12	-0.11	2.63
8,203.0	0.50	139.20	7,998.3	-1,149.8	809.9	1,405.7	1.06	-0.11	135.06
8,253.0	0.50	139.20	8,048.3	-1,150.1	810.2	1,406.2	0.00	0.00	0.00
HARDLINES 75'N & 75'E OF DRILL TARGET									

Checked By: _____ Approved By: _____ Date: _____