

# OUR COMMITMENT TO RESPONSIBLE RESOURCE DEVELOPMENT

The Lochend Industry Producers Group is comprised of reputable Companies that have a proven track record and are committed to integrity, safe and fair practices, partnering with the community for responsible resource development.

[www.lipg.ca](http://www.lipg.ca)



lochend industry producers group



Please contact us if you have any questions.  
**403.801.8028**  
e-mail: [info@lipg.ca](mailto:info@lipg.ca)

## GOING DEEP

In response to our community survey, you asked for...

### More **FACTS** about Hydraulic Fracturing

Average depth of Lochend water well is **45 metres**

In the Lochend area, wells are drilled **thousands** of metres **BELOW** the earth's surface and groundwater supplies to **free oil** trapped in tight rock formations.

600 metres

TWO layers of **STEEL** casing and **cement**, one to 600m and another set to approximately 2000m, are used to **PROTECT** fresh **water supplies**, **water wells** and **aquifers**. In Lochend, the well depth is equal to the height of **FOUR CN Towers**.

**Hydraulic fracturing** is a process used to **RELEASE** oil and gas **trapped** in rock pores. **High-pressure fluid** is sent down wells to create small cracks, or expand **natural fractures** in rock layers deep within the earth allowing the oil and gas to **FLOW** into the wellbore and up to the **surface**.

#### Water **REUSE** and **WASTE DISPOSAL**

Because hydraulic fracturing takes place **DEEP** below the surface, underground **water supplies** and fracturing operations are **separated** by thousands of metres of **impermeable rock**. Hydraulic fracturing fluid and oil **cannot migrate** through it. Fracturing fluid and waste water are **collected** at surface and whenever possible are **recycled** for **FUTURE use** or carefully disposed of according to provincial regulations.

Oil and gas operators must **report** to the government the **source** and **volume** of water **USED** and **recovered**, along with additives used and their concentration.

"There has **not** been a documented case of water well contamination **resulting** from hydraulic fracturing operations in Alberta." *Alberta Energy Regulator (AER)*

#### **DID you KNOW?**

Hydraulic fracturing is a **SAFE, PROVEN** and government-regulated technology. Fracking has been used in Alberta for more than 60 years.

**AIR QUALITY TESTS** have consistently shown **emissions** to be **below** the levels permitted by provincial regulations.

Oil and natural gas are **CRITICAL** to our **everyday lives**. They fuel our cars, heat our homes and provide us with **millions of products** that we use every day, including plastics, medications, clothing and building supplies.

Fracturing fluid is made up of **99% water, nitrogen and sand**. Less than 1% of the **remaining solution** is comprised of additives used in **common household** products such as cleaning supplies and shampoo.

Nitrogen, which makes up **78%** of the earth's atmosphere, is used to **energize** the water in the process so it **flows** more efficiently, similar to the effect when opening a **can of soda**.

2200 metres