



**HYDRAULIC
FRACTURE
or,
HYDROFRACTURE**

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Words and definitions are important!

Fracking (Generic - all processes)

“process that results in the creation of fractures in rocks”

Hydraulic fracturing

(used by **energy** industry – very high pressures – complex fluid recipes – used to aid release of gas)

Hydrofracking

(used by **water well** industry – nearly always water only – enhances flow in low yield bedrock wells)

**A hydrofracture
“packer” about to
be lowered into a
well**

**Packers seal off
parts of the well
and hydraulic
pressure is then
used to open up
bedrock cracks
and increase
water flow**



John Larsen photo

Hydrofracture to increase water yield from a bedrock well



John Larsen photo

The scale of fracking operations is intimidating for the public and communities



Halliburton photo

Fracking – water, sand and . . .

- Acids
- Friction reducers
- Surfactants
- Gelling agents
- Scale inhibitors
- pH adjustors
- Corrosion inhibitors
- Anti-bacterial agents
- Clay stabilizers
- Breakers
- Cross linkers

Hydraulic Fracture

**Energy
industry**

Hydro-fracture

**Water well
industry**

- rarely uses any additives