## DESPITE WHAT THE OIL AND GAS INDUSTRY IS TELLING YOU ON THEIR ROSY TV COMMERCIALS..... IT IS VERY IMPORTANT TO KNOW WHAT THEY ARE NOT TELLING YOU .....

Above: Horizontal Hydraulic Fracturing

## THE FACTS:

They have *not* been "fracking for more than 50 years" in the *way* they are today. Not by a long shot! HORIZONTAL HYDRAULIC FRACTURING for oil and gas as practiced now is a radically more extensive, high pressure, water and chemical intensive process that has little in common with older methods and has only come into any real commercial use in the *last 10 years*. See illustration. Here is the reality today.

After building a well pad that can accommodate eight or more individual oil/gas wells, containment pits and ponds are dug for spent drilling and fracking fluids. Vertical wellbores are then made up to a mile or more deep, at which time a horizontal bore is made up to a mile or more into a shale layer. Fracturing the shale is done through ports at intervals in the piping to release gas/oil by using explosives and the injecting water and a very toxic variety of fluids at extremely high pressures of up to 10,000 pounds per square inch (psi), along with sand and ceramic "proppants" to keep the fractures open. THIS PROCESS **REQUIRES 3 TO 7 MILLION GALLONS OF WATER FOR EACH WELL AND** FRACKING EPISODE (UP TO TEN OR *MORE*). This water and fluid comes back out of the well as "flowback" waste water containing brine, hydrocarbons, radioactive substances, and toxic chemicals which must be stored and dealt with as hazardous waste. Be very aware of just some of the other things that come with a fracturing operation. Including: The transporting of hundreds of thousands of tons of equipment, sand, water, chemicals, and other supplies to and from the well site with eighteen-wheel diesel trucks. This involves thousands of round trips on local roads per well, ringing the well with 12 to 18 high pressure diesel pumps on flatbed trucks; all of this often goes on 24/7 with accompanying noise, dust, lights, etc.

As to the issue of "groundwater contamination": POPULATIONS THROUGHOUT THIS COUNTRY HAVE FOUND, AND EXPERTS HAVE PROVEN, THAT HORIZONTAL HYDRAULIC FRACTURING CAN AND DOES CONTAMINATE GROUND WATER.

Plainly, the oil and gas industry have their sights set on *two* things in the Albuquerque Basin....*oil and gas*, and, equally important, vast amounts of *our water*. We, in our drought-prone area can, in no way, afford either the water or the risk of its contamination.





4. Flowback and

5. Wastewate

We in the Albuquerque Basin (which includes several counties and our Middle Rio Grande River Valley) have a unique circumstance because this Basin is part of the Rio Grande Rift. It is a *collapsed geology* and contains our *GREATEST AND ONLY REAL WATER SUPPLY*. This geology has multitudes of irregular faults, fissures, and porous layers through which toxic chemicals, gas/oil from hydraulically fractured areas below can readily rise to find their way to our water table. See illustration above.

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