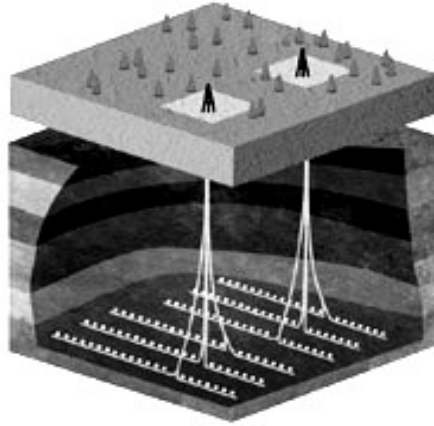


**Fracking is** the practise of blasting water, sand, and chemicals deep into wells under enough pressure to smash layers of targeted rock so the rock will release oil and gas trapped within it. 'Fracking' is short for Hydraulic Fracturing.

### **Unconventional**

refers to hard to get oil and gas that is extracted using a collection of unconventional methods like building clusters of well-sites with multiple wells at every site. The wells have multiple laterals (sidetracks) extending out for many kilometres which are fracked repeatedly in sections.



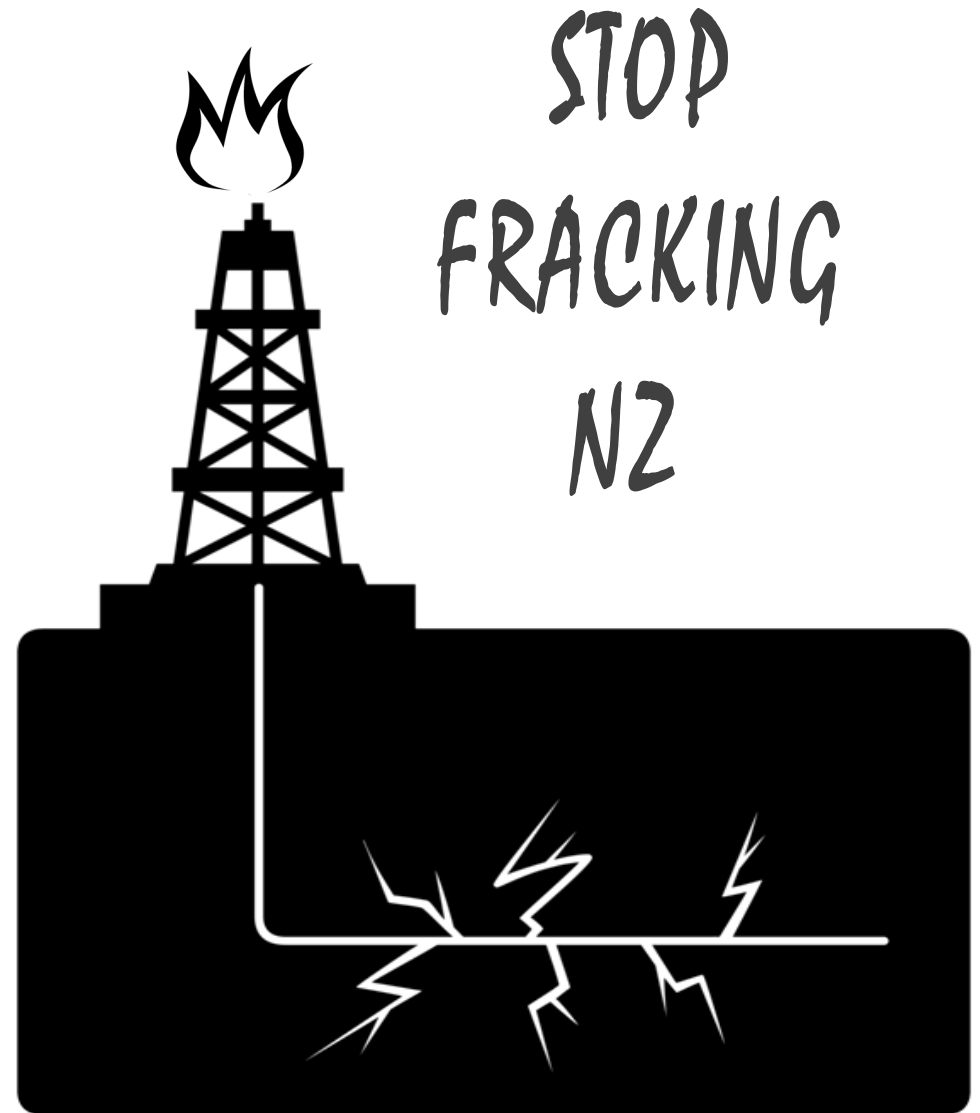
The diagram above has markers on the laterals showing where they will be perforated to allow the fracking fluid access to the targeted rock and after fracking, the perforations will allow oil, gas and contaminated water to flow into the well.

### **Stop Fracking in New Zealand**

Many people do know and understand why fracking and the associated activities must stop. We need to work toward a healthy climate and future for all. NZ is a small country, the Todds are members of our society and may just need encouragement to get off fossil fuels. Giving the clear message that we are choosing renewable energy could sway the Todds toward renewable options and that would be in the best interest of all New Zealanders both now and in future. More info can be found at: [frackfree facebook groups](#) and [www.climatejusticetaraki.info/](#)

This leaflet is produced by Frack Free Kapiti and Beyond, Sept. 2016.  
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## 10 Reasons to Insist Todd Energy



# FRACKING and the activities associated are THREATENING

1. The communities we love.
2. The environments we live in.
3. The climate we all depend on.

4. Fracking causes earthquakes and so does 'deep well injection' used to dispose of produced waste. Todd Energy say the quakes are only minor<sup>1</sup> but experts at the U.S. Geological Survey do not know if there is an upper limit on the magnitude of the induced quakes. The highest recorded to date is 5.6 and linked to waste water injection.<sup>2</sup>

5. Empirical evidence repeatedly confirms fracking pollutes ground water.

6. Todd's drilling activities in Taranaki have seriously contaminated ground water with BTEX and BAP.<sup>3</sup>

7. Fracked gas is just as damaging as coal is to the climate.<sup>4</sup>

8. Just 6% of gas extracted in NZ is used by our communities in hospitals, hotels, restaurants, horticulture greenhouses, schools and in our homes while 49% is processed into petrochemicals.<sup>5</sup>

9. 30 % of the gas is used to generate electricity and 15% goes to industry.<sup>5</sup>

10. Our future depends on the fossil fuel industry doing the right thing, right now: Leaving undiscovered and hard to get fossil fuels in the ground.<sup>6</sup>



## MEET THE FRACKERS

- They have interests in 80 percent of all NZ's productive oil and gas fields.
- They use fracking as a standard treatment to maximize production at many of those fields.
- They prefer not to speak publicly about their business or ethics and just quietly take the profits.



The Todd family are based in Wellington and the Todd Corporation is their family business. Established in the early 1900's oil and then NZ gas have been the bread and butter of the business. The Todd Corporation is owned by 160 family members who are the sole shareholders, it is valued at \$3.6 billion and pays profits of hundreds of millions of dollars annually into Todd family trusts. Todd Corporation includes Todd Energy and NOVA Energy. Head Office is in the Todd Tower, Wgtn.<sup>7</sup>

## TELL NOVA IT'S OVER

The Todds are fracking NZ to make electricity. In 2016 with abundant renewable energy options, it is hard to imagine. However right now and against community will, they persist with plans to build two more gas-fired power plants.<sup>8</sup> While other electricity suppliers race toward a 100% renewable power goal, the Todds continue to take us down the fossil fuel hole by drilling unconventional wells, producing electricity from the gas, and then through their retail company NOVA, sell the electricity to unsuspecting customers.

The Todds should not have the prerogative to sacrifice our environment, climate and future wellbeing simply to make more profit for the Todds. They could do so much better.

## WHAT IS FRACKING > > > >

(1) <http://www.stuff.co.nz/taranaki-daily-news/news/7920839/The-good-oil-on-fracking> (2) <https://www.washingtonpost.com/news/speaking-of-science/wp/2016/03/28/new-seismic-hazard-map-includes-fracking-related-quakes-for-the-first-time/> (3) present in the groundwater [benzene, toluene, ethyl benzene, and xylene, naphthalene and benzo(a)pyrene <http://www.trc.govt.nz/assets/Publications/technical-reports/oil-and-gas-compliance-monitoring-reports/1104514w2.pdf> (4) <http://www.news.cornell.edu/stories/2011/04/fracking-leaks-may-make-gas-dirtier-coal> (5) <http://www.gasindustry.co.nz/about-the-industry/nz-gas-story/> (6) <http://www.theguardian.com/environment/2015/jan/07/much-worlds-fossil-fuel-reserve-must-stay-buried-prevent-climate-change-study-says> (7) [http://www.nzherald.co.nz/business/news/article.cfm?c\\_id=3&objectid=10370174](http://www.nzherald.co.nz/business/news/article.cfm?c_id=3&objectid=10370174) (8) [http://action.greens.org.nz/gas?recruiter\\_id=219848](http://action.greens.org.nz/gas?recruiter_id=219848) <http://www.stuff.co.nz/taranaki-daily-news/news/82384390/Roadworks-on-SH3-in-preparation-for-new-Nova-Energy-power-station-in-New-Plymouth>