

# THE WEEKLY PROFIT

## FROM THE SACRIFICE ZONE

Sue Gilbert  
Issue 44

Without prejudice

29th January 2019



**Aren't children wonderful.  
They too can see the dangers of fracking**  
Many thanks to Susan for the brilliant photograph.

# Geological Concerns Regarding Fracking Regulation

<https://frackfreeformby.org/2019/01/27/geological-concerns-regarding-fracking-regulation/>

The UK system of regulation of fracking imposes a range of strict geological controls on operators – including seismic surveys, safe distances, seismic monitoring, a traffic light system, and barriers to fugitive migration.

Experience and professional advice suggest however that each of these controls is flawed i.e.

1. **Seismic surveys are invariably incomplete and incapable of detecting small fault lines and minor vertical displacement which could lead to earthquakes.**
2. **The EA formula for calculating a safe distance between fracking propagation and fault lines is unduly optimistic and should be replaced by a minimum distance of at least 850 metres horizontally.**
3. **The sequence of events at both the Preese Hall and PNR sites implies inherent instability in the stress planes of the fault lines in the Bowland Field.**
4. **Fracture growth monitoring is inadequate to indicate the precise real time effect fracking is having on the propagated area.**
5. **The combined effect of these factors is to automatically trigger the temporary suspension of drilling under the current traffic light system, an outcome which is incompatible with commercial considerations.**
6. **The current traffic light system also fails to accommodate measures to deal with large seismic events, swarms of seismic events, or trailing events.**
7. **Increasing the current red-light limit from 0.5 to 2.0 ML threatens well integrity and fluid migration into unprotected formations.**
8. **The higher red-light figure is equivalent to the energy release of 1 kiloton of TNT explosive, the size of a late WW2 bomb.**
9. **The regulatory controls will not detect the fugitive migration of released but unrecovered gas/fluids through pathways and conduits, and 10. The claimed barriers to prevent sideways and upward migration of gas/fluids and the potential pollution of groundwater resources are ineffective.**

Friday, January 25, 2019

by

[Common Dreams](#)

## **My Message to Davos Elites: Act As If Our House Is on Fire. Because It Is.**

<https://www.commondreams.org/views/2019/01/25/my-message-davos-elites-act-if-our-house-fire-because-it>

**"Either we choose to go on as a civilization or we don't. That is as black or white as it gets. There are no grey areas when it comes to survival."**

by

[Greta Thunberg](#)

**Our house is on fire. I am here to say our house is on fire.**

**According to the IPCC (Intergovernmental Panel on Climate Change), we are less than 12 years away from not being able to undo our mistakes. In that time, unprecedented changes in all aspects of society need to have taken place, including a reduction of our CO2 emissions by at least 50%.**



**ARE YOU LISTENING????**

IMAGE FREEPIC.COM

## **FRAC WATER DEMAND IS SKY-ROCKETING**

[HTTPS://WWW.RYSTADENERGY.COM/NEWSEVENTS/NEWS/PRESS-RELEASES/FRAC-WATER-DEMAND-IS-SKY-ROCKETING/](https://www.rystadenergy.com/newsevents/news/press-releases/frac-water-demand-is-sky-rocketing/)

**January 22, 2019**

**As oil production in the US shale industry soars to record levels, so does the need for water.**

**New research from Rystad Energy shows that demand for so-called frac water has more than doubled from 2016 levels. Current demand in the Permian, the prolific shale basin located in western Texas and southeastern New Mexico, now exceeds the total US demand of 2016.**

**Rystad Energy forecasts demand will grow by an additional 6% in 2019. In the Permian, demand will likely surpass 2.5 billion barrels by 2020.**

**“Frac water demand has sky-rocketed. This surge is driven by both increased activity and higher proppant intensity. But even with such steep growth, market concerns about sourcing challenges and bottlenecks appear to be minimal,” Rystad Energy senior vice president Ryan Carbrey said.**

**Where will all this water come from for fracking in England?**



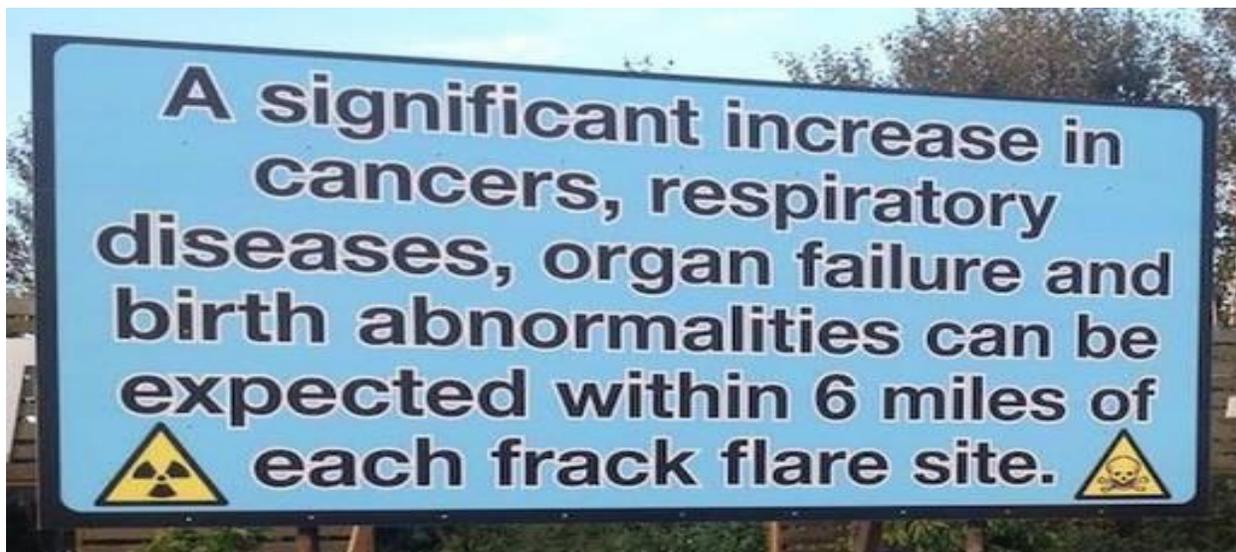
## Fracking wastewater accumulation found in freshwater mussels' shells

**Date :** October 22, 2018

**Source :** Penn State

**Summary :**

**Elevated concentrations of strontium, an element associated with oil and gas wastewaters, have accumulated in the shells of freshwater mussels downstream from fracking wastewater disposal sites.**



Eco Watch

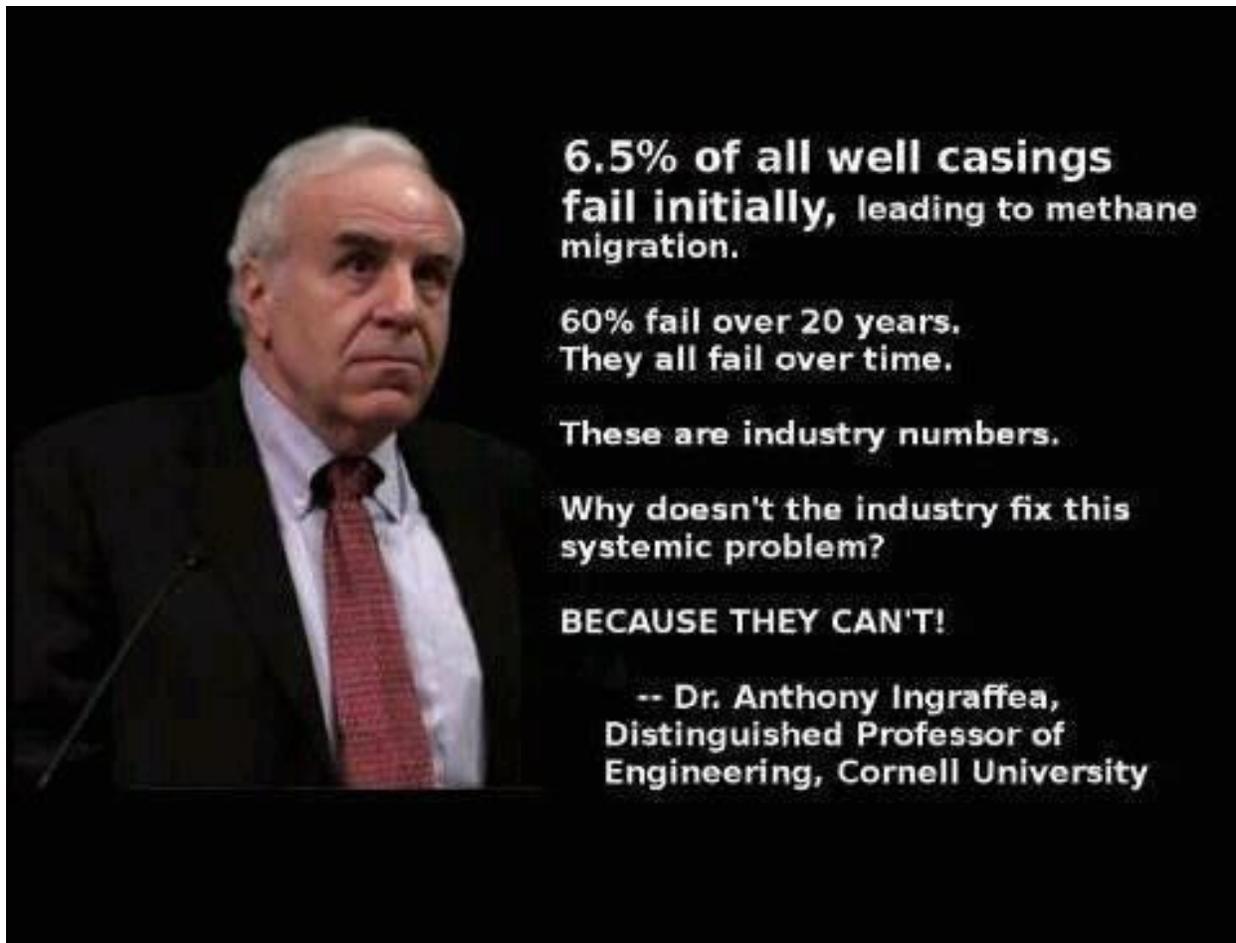
# Attenborough: 'If We Wreck the Natural World, We Wreck Ourselves'

[Lorraine Chow](#)

Jan. 22, 2019

During the sit-down, the 92-year-old naturalist advised the world leaders and business elite gathered in Davos this week that we must respect and protect the natural world, adding that the future of its survival—as well as humanity's survival—is in our hands.

"We can wreck it with ease," Attenborough said. "We can wreck it without even knowing we are doing it. And if we wreck the natural world, in the end, we wreck ourselves."



**6.5% of all well casings fail initially, leading to methane migration.**

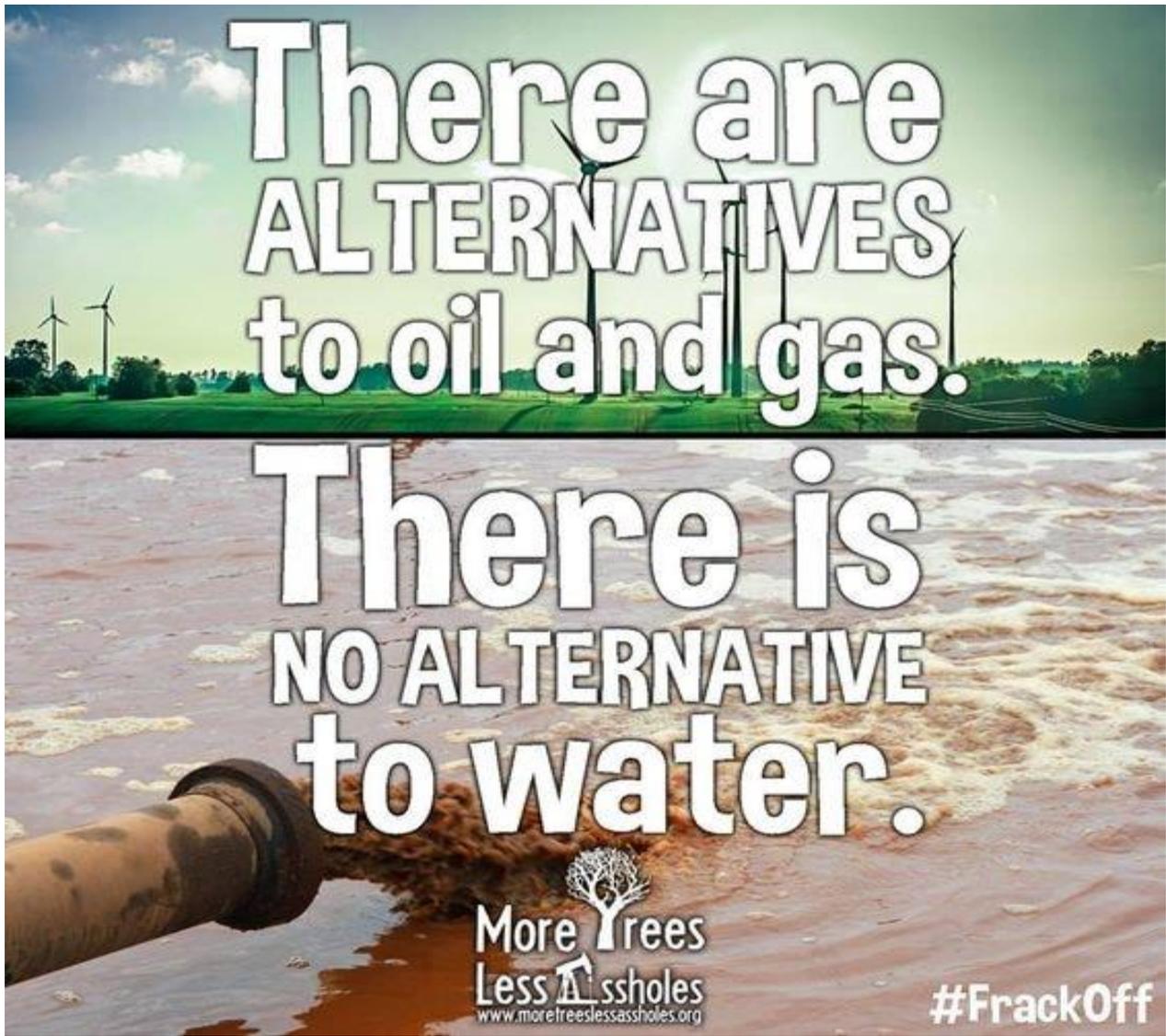
60% fail over 20 years.  
They all fail over time.

These are industry numbers.

Why doesn't the industry fix this systemic problem?

**BECAUSE THEY CAN'T!**

-- Dr. Anthony Ingraffea,  
Distinguished Professor of  
Engineering, Cornell University



**End The Madness**  
**Ban Fracking**