

Drivers & Victims of the Fossil Fuel Industry in New Zealand

Prepared for

The Pacific Climate Change Conference Victoria

University of Wellington

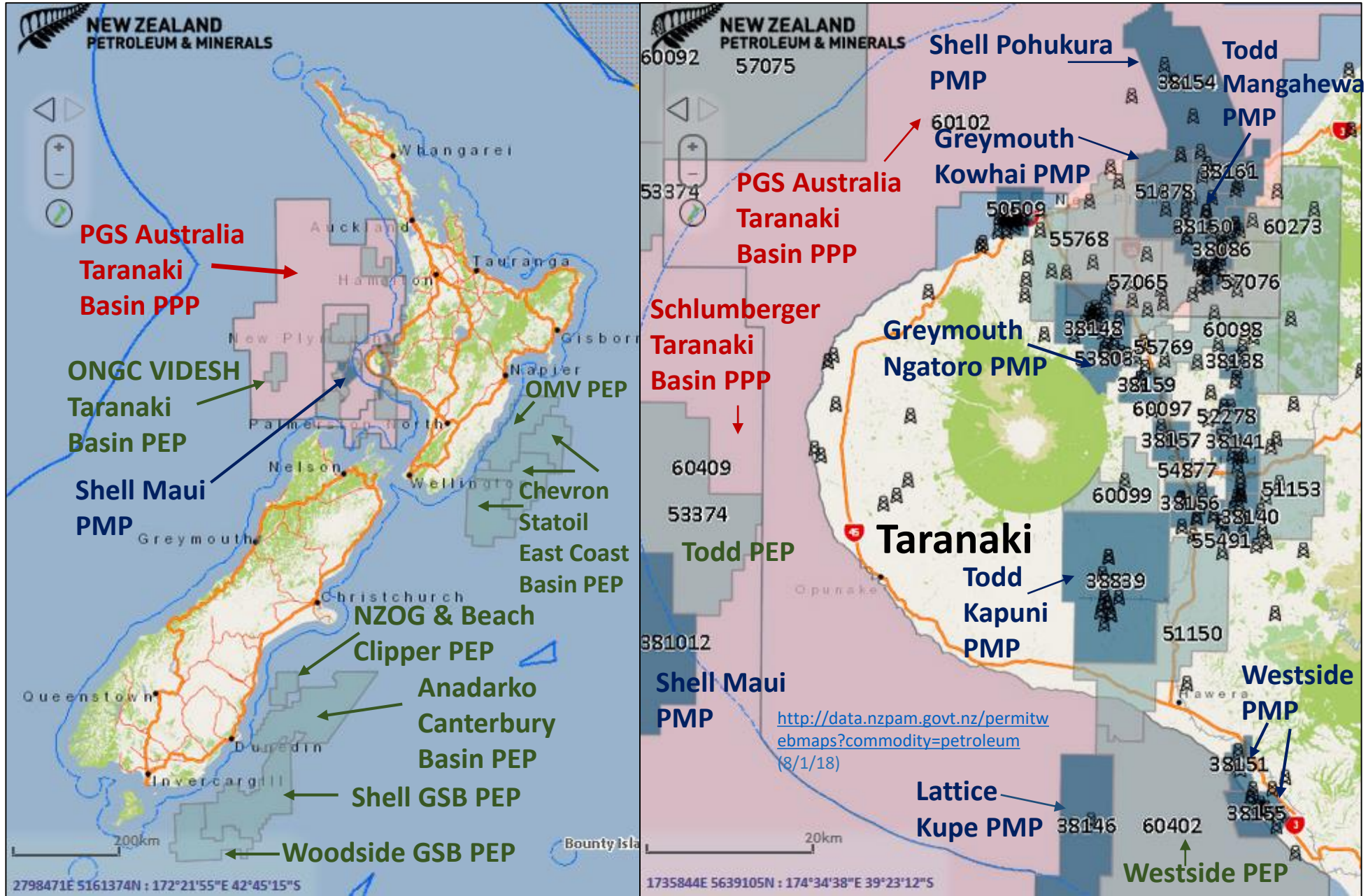
21-23 Feb 2018

By

Catherine Cheung & Jean Kahui

(Climate Justice Taranaki & Frack Free Kapiti)

Petroleum Prospecting, Exploratory & Mining Permits



Government subsidies for Oil/Gas

2009: \$40.5 million

2016: \$87.6 million

http://www.terrenceloomis.ac.nz/uploads/5/3/3/3/5333337/govt_subsidies_update_report_2017-3.pdf

Government still funding oil industry and ignoring renewables

Gareth Hughes MP on Sunday, March 20, 2016 - 11:32

The Green Party can reveal the Government is continuing to pour public money into subsidies for the oil and gas industry and ignore clean energy investment, on the eve of a major government-sponsored oil and gas conference starting in Auckland tomorrow.

The Government has just confirmed it spent \$47,583 on the 2016 Minerals Exploration Data Pack – a collection of valuable data for overseas fossil fuel companies as a sweetener to make drilling for oil in New Zealand more attractive.

<https://www.greens.org.nz/news/press-release/government-still-funding-oil-industry-and-ignoring-renewables>

<http://www.petroleumconference.nz/wp-content/uploads/2017/03/11-Kellett-Geoscience-23-March.pdf>

NIWA report confirms it does oil and gas work

10:08 am on 25 November 2015

Share this      

Eric Frykberg - eric.frykberg@radionz.co.nz

A National Institute of Water and Atmospheric Research (NIWA) report shows it does work for the oil and gas industry.

The confirmation comes a day after Greenpeace protesters boarded a NIWA research ship they said was prospecting for fossil fuels.

<https://www.radionz.co.nz/news/national/290502/niwa-report-confirms-it-does-oil-and-gas-work>



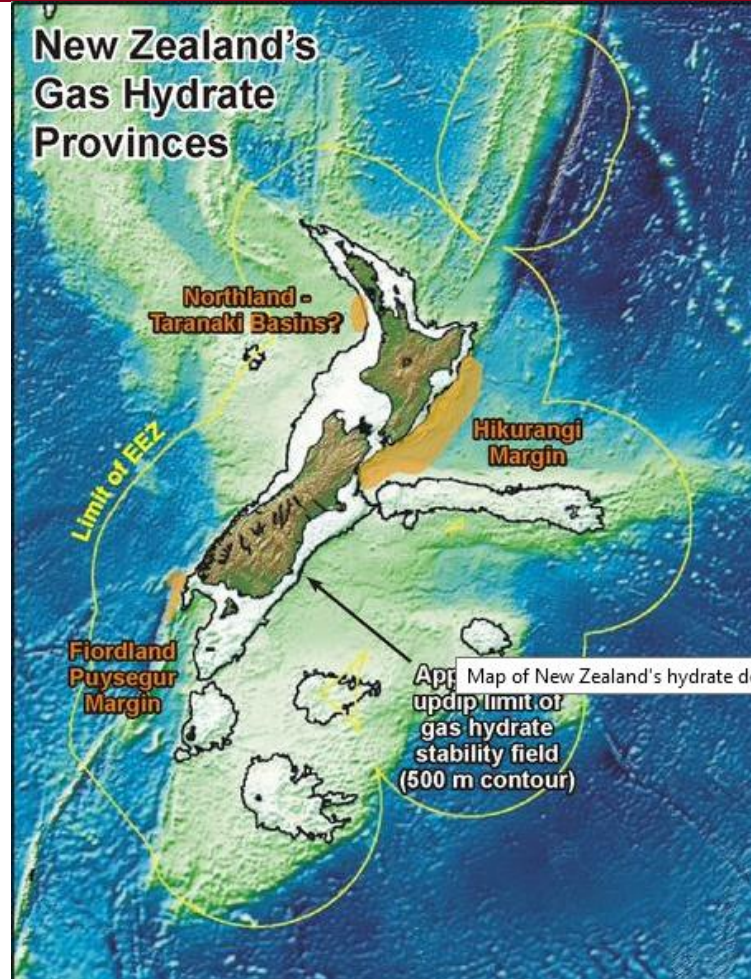
RV Tangaroa returns to Wellington after an extensive upgrade, including the installation of DP2 dynamic positioning capabilities.

<https://www.niwa.co.nz/news/scientists-investigate-ocean-floor-minerals>





“GNS Science is leading a research programme into the resource potential of New Zealand’s gas hydrate deposits in collaboration with NIWA, the University of Otago, and the University of Auckland, funded by the Ministry of Business, Innovation, and Employment (Harnessing New Zealand’s gas hydrate resources: towards exploration drilling; GHR).”



<https://www.gns.cri.nz/Home/Our-Science/Energy-Resources/Gas-Hydrates/Current-Research/Gas-hydrates-as-an-energy-resource>
<https://view.knowledgevision.com/presentation/a21e535ec46a4b66854c4bc7f6c34df3>

Playing with ‘Fire in the Ice’



Palaeoworld

Volume 25, Issue 4, December 2016, Pages 496-507



Methane Hydrate: Killer cause of Earth's greatest mass extinction

Uwe Brand ^a, Nigel Blamey ^a, Claudio Garbelli ^{b, 1}, Erika Griesshaber ^c, Renato Posenato ^d, Lucia Angiolini ^b, Karem Azmy ^e, Enzo Farabegoli ^f, Rosemarie Came ^g

“Global warming triggered by the massive release of carbon dioxide may be catastrophic, but the *release of methane from hydrate may be apocalyptic*. The end Permian holds an important lesson for humanity regarding the issue it faces today with greenhouse gas emissions, global warming, and climate change.”

<https://www.sciencedirect.com/science/article/pii/S1871174X16300488>

<http://www.independent.co.uk/environment/earth-permian-mass-extinction-apocalypse-warning-climate-change-frozen-methane-a7648006.html#gallery>

<https://www.netl.doe.gov/research/oil-and-gas/methane-hydrates/fire-in-the-ice>

<http://www.energynewsbulletin.net/exploration/news/1099528/nz-junior-jumps-on-hydrate-train>

Multiple Impacts

- Environmental
- Health & safety
- Economic



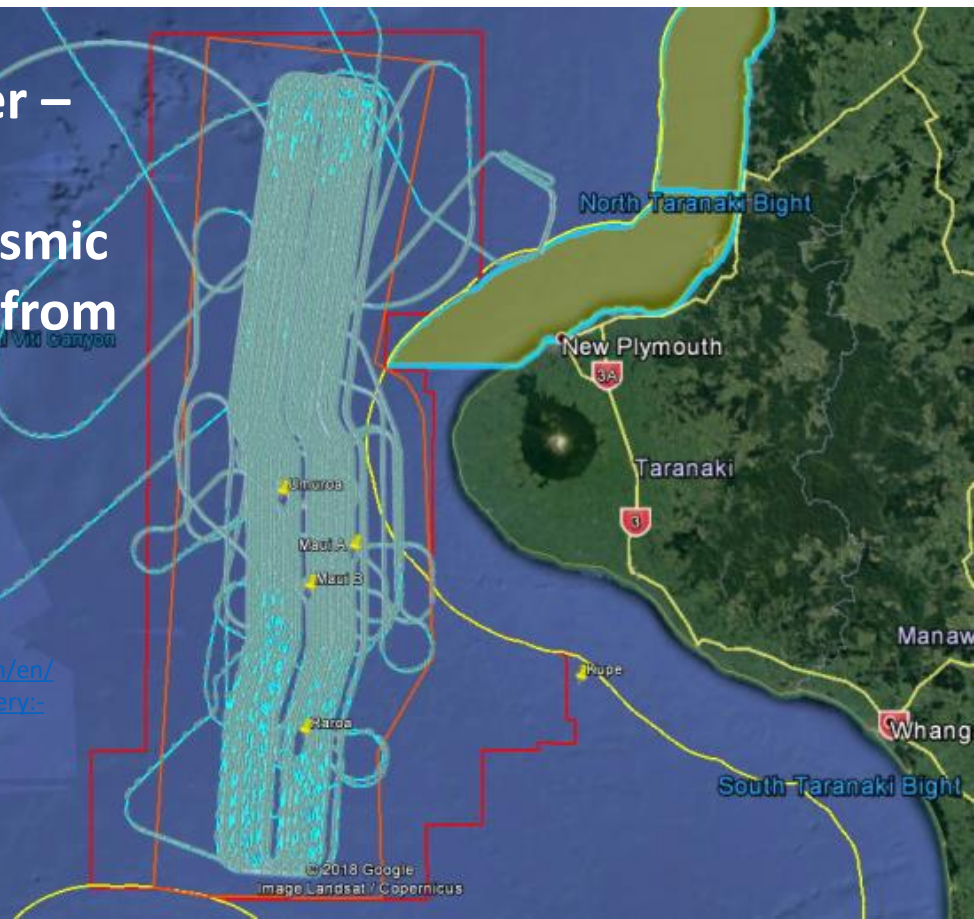
**Greymouth Ohanga-A
wellsite, Taranaki**

Photo by Fiona Clark, 26 Nov 2014

Impacts on Marine life & ecosystems

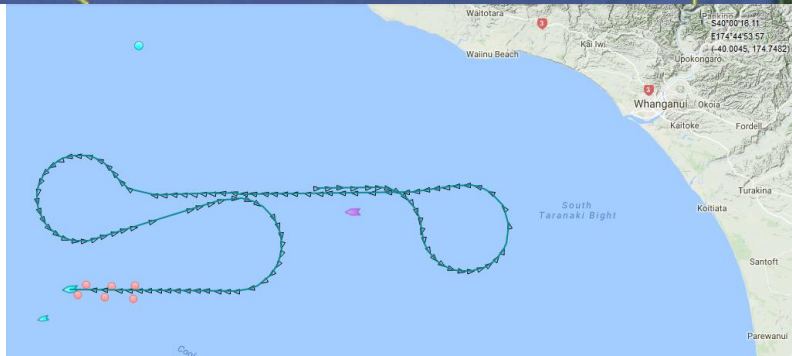
Schlumberger –
Amazon
Warrior's seismic
survey track from
Dec 2017-
24/01/2018

<http://www.marinetraffic.com/en/ais/home/centerx:172.3/centery:-38.3/zoom:3>



Track from 17-
18/02/2018

<http://www.marinetraffic.com/>



- South Taranaki Bight (STB) is a **global marine mammal hotspot** and part of the Cook Strait **Important Bird Area**
- At least 36 species of marine mammals, 6 Endangered including Maui Dolphin & Blue Whale, 18 Data deficient
- **Seismic noise** known to directly and/or indirectly harm marine mammals, penguins, fish, lobsters, scallops, zooplankton...
- **Exploratory drilling**
- Oil spill risks
- Disturbance of habitats
- Decadal discharge of **toxic contaminants**
- Cumulative impacts

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0019653>

<http://blogs.oregonstate.edu/gemmlab/2017/10/24/hearing-is-believing/>

<http://DOI.org/10.1038/s41598-017-16569-x>

<http://dx.doi.org/10.1080/03014223.2017.1302970>

<https://view.knowledgevision.com/presentation/9a4a3135e5ff4028945c7b7ca0bb2d82>

In Taranaki:

- Well integrity issues
- Soil & groundwater contamination at wellsites, 'landfarm', urea plant
- Stream bed contamination at 'wormfarm'

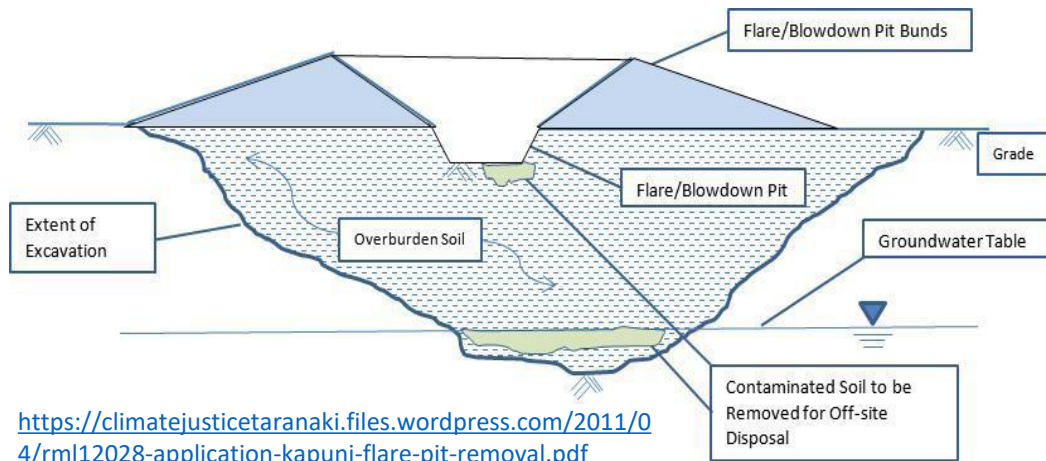


Figure 1 Aerial photograph showing the layout of the landfarming facilities on Brown Road, Waitara, and approximate regional location (inset)



Photo by Fiona Clark, 1/06/14

<https://www.tagoil.com/news/tag-announces-fy2015-drilling-program-and-provides-operations-update/>
<https://climatejusticetaranaki.files.wordpress.com/2011/04/stdc-information-report-re-consents-for-kapuni-contaminated-soil-2012-08-7.pdf>
<https://trc.govt.nz/assets/Documents/Environment/Monitoring-OGproduction/MR2016-ToddMckeeProductionStationPowerPlant.pdf>
<https://trc.govt.nz/assets/Documents/Environment/Monitoring-OGwaste/MR2014-BTWWWellingtonLandfarm.pdf>
<https://trc.govt.nz/assets/Documents/Environment/Monitoring-OGwaste/MR2016-BTWWWellingtonLandfarm.pdf>
<https://trc.govt.nz/assets/Documents/Environment/Monitoring-Industry/MR2017-BallanceKapuni.pdf>

Social Impacts



<https://jury.co.nz/category/petrochem/>

*“I live in a place more beautiful than I ever dreamed possible. It is also a place that is now in the **evacuation zones** for two separate well sites and not so far from another dozen sites on this side of the river. Fracking and petrochemical development is very personal for me. I live with it day and night. Every day and every night... Beyond the boundaries of our property, Tikorangi has **changed forever**...”*
Abbie Jury

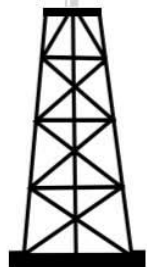


Left: Todd Energy Mangahewa-D wellsite. Above: McKee Production Station. Photos: Fiona Clark

Moving on from oil and gas in NZ

issues - action - transition

Sunday 25th March 2018
at the Dowse Lower Hutt
10 am - 5 pm free entry



community information day



nau mai haere mai

This is a rare opportunity to learn more about the connections between NZ's oil and gas industry and: sacrificed communities, endangered marine life, water issues, man-made climate change and our backyard BBQ's.

Leading scholars, activists and scientists will present the latest information available and answer the hard questions like: how can I join the clean energy movement when I drove here in a car, is gas a good transition fuel, and is the Government addressing climate change or passing the buck?

Speakers include: Ihaia Puketapu, Teanau Tuiono, Te Tui Shortland, Dr Mike Joy, Jeanette Fitzsimons, Dr Lyndon DeVantier, Fiona Clark and more. A full program will be available mid-March at the Dowse and www.climatejusticetaranaki.info. For more details email Jean Kahui at: frackfreeaction@outlook.co.nz.

www.RallyForClimateJustice.nz

26-27 March 2018, Wellington

