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Petroleum Exploration Data Pack

The Petroleum Exploration Data Pack is a portable external hard drive featuring the latest technical data within an easy to navigate interface.



It includes a large selection of open-file geophysical, geochemical and geological datasets, minerals reports and prospectivity studies.

It is the essential tool for quickly and easily recognising petroleum opportunities in New Zealand.

The 2018 Data Pack features a large selection of open-file seismic and well data, interpretation projects, reports and studies including the following new data:

- National Well Audit Pilot — comprehensive success / failure analysis of offshore petroleum wells in the Canterbury and Great South basins.
- Updated Well and Seismic Data — new open-file data for an additional 41 wells, and additional 9,136 line km's of 2D and 3,393 km² of 3D seismic data.
- Updated Composite Well Data — quality controlled, standardised and composited LAS data for 671 wells, loaded to Kingdom and ready for regional studies.
- Atlas of Petroleum Prospectivity, Southeast Province — technical report, GIS database, and 5 GIS projects encompassing the Canterbury and Great South Basins
- Production data for ten producing fields.

A list of Data Pack products are contained in the table below:

Feature	Description
National Well Audit Pilot	Comprehensive success / failure analysis of offshore petroleum wells in the Canterbury and Great South basins.
Atlas of Petroleum Prospectivity	Technical reports, GIS databases, and GIS projects encompassing the North West and South East provinces of New Zealand. In total there are over 24,000 km ² of 3D seismic data and 475,000 line km of 2D seismic data.
Well and Seismic Data	Well data is available for 1,044 Wells.
Production Data	Production data for ten producing fields.
Northern East Coast Basin Petroleum Prospectivity Screening Report	An up-to-date overview of the geological history and petroleum prospectivity of the offshore basin.
Gas Hydrates Research	An overview of New Zealand Gas Hydrates research to date.
Fluid Inclusion Stratigraphy Study	Final report on the ten wells studied from the Great South, Taranaki, East Coast and Reinga-Northland basins.

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Feature	Description
Source, Seal and Seeps GIS	A New Zealand-wide assessment of petroleum source rock potential, seal rock distribution and quality, and petroleum occurrences.
Pegasus and Reinga Basin Petroleum Prospectivity Screening Reports	Up-to-date overview of the geological history and petroleum prospectivity of each basin as a result of the RV Tangaroa expeditions.
New Zealand Basement Composition and Heat Flow GIS	Present-day basement heat flow modelling and assessment of oil & gas maturation windows in New Zealand's basins.
Legacy Compilation of New Zealand Frontier Basin Seismic Interpretation Projects	A Kingdom project for screening exploration potential and background interpretation in regional reviews.
Well Test Results GIS	A database of conventional well test and wireline formation tester results providing an indication of the presence of movable hydrocarbons and reservoir properties for over 500 wells.
NPA Satellite Offshore Seepage Study	ArcGIS of 367 interpreted SAR scenes categorising oil slicks across New Zealand.
Composite Well Data	Quality controlled standardised and composited LAS data for 671 wells, loaded to Kingdom and ready for regional studies.
New Zealand ECS SEEBASE	A depth to basement geological model across New Zealand's Extended Continental Shelf.
National Seismic Interpretation Framework	An integrated mapping of key aged based horizons and faults on a regional basis for 77 seismic lines across New Zealand.
Kingdom Project	Preloaded open file well, seismic and cultural data across New Zealand.
ArcGIS Project	Comprehensive GIS dataset providing a one stop shop for identifying seismic, well and geoscience data availability.
Petroleum Exploration Geoscience Initiative (PEGI)	A range of geoscience evaluations and specialist studies across Taranaki and other key basins.
New Zealand Petroleum Basins Book	A comprehensive introduction to New Zealand's basins and petroleum systems.
Onshore Southland Airborne Survey	A magnetic and radiometric survey covering approximately 5,000 km ² of the Southland region.

The Data Pack is available on a single portable hard drive. There is an administrative fee of NZ\$400 per unit including postage (excluding tax).

Other sources of data

The New Zealand Government is committed to open data, transparency and supports the oil and gas industry with up-to-date prospectivity data. Most of the technical data listed below is available free of charge.

This includes:

- [The Online Permitting System](#) - register of all current and historical permits, recent applications, and Block Offers.
- [The petroleum permit web maps](#) featuring current prospecting, exploration and mining permits.

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- Exploration reports and open-file data for all New Zealand exploration since the 1880s on the [NZP&M Exploration Database](#).

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