

## Petroleum geoscience data from the Warburton, Pedirka and Eromanga basins

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| <b>ANZLIC Identifier:</b>                | 10842E233ED1D2A0E050CD9B21440ECC   |
| <b>Title:</b>                            | Northern Territory Geological Survey – Petroleum Geoscience data for the Warburton, Pedirka and Eromanga basins  |
| <b>Custodian:</b>                        | Northern Territory Geological Survey (NTGS)<br>Department of Industry, Tourism and Trade   |
| <b>Abstract:</b>                         | NTGS has compiled a petroleum geology dataset on the stacked Warburton, Pedirka and Eromanga basins in the southeast corner of the Northern Territory. The dataset consists of geology and analysis of source rocks that were selected specifically for the purpose of determining the potential for petroleum resources. The dataset consists of source rock geochemistry, organic petrology and reflectance, gas geochemistry, source rock properties, bulk isotopes, biostratigraphy and detrital zircon geochronology. |
| <b>Search Word(s):</b>                   | economy, geoscientific information, Warburton Basin, Pedirka Basin, Eromanga Basin, shale, coal  |
| <b>Bounding Coordinates (GDA94):</b>     | North Bounding Coordinate: -24<br>South Bounding Coordinate: -26<br>East Bounding Coordinate: 138<br>West Bounding Coordinate: 129   |
| <b>Reference System Information:</b>     | The dataset is supplied in Geocentric Datum of Australia (GDA94), latitude and longitude [EPSG: 4283]  |
| <b>Data Currency Start Date:</b>         | 08/04/2021   |
| <b>Data Currency End Date:</b>           |  |
| <b>Progress:</b>                         | In Progress  |
| <b>Maintenance and Update Frequency:</b> | As Required  |
| <b>Access Constraint:</b>                | The data or product is copyright of the Northern Territory Government. The data and other information may be reproduced or used to develop other products but any such copies or works must acknowledge the Northern Territory Geological Survey, on behalf of the Northern Territory of Australia as the source of the original data or information.  |
| <b>Lineage:</b>                          | The stacked Warburton, Pedirka and Eromanga basins are recognised as having potential for petroleum. Previous studies have tested the petroleum potential by undertaking analyses  |

including total organic carbon content, programmed pyrolysis, bulk and clay mineral content, kerogen kinetics and elemental kerogen analysis, shale rock properties, organic petrography, whole rock geochemistry, mechanical rock properties, gas chromatography and biomarker analysis. These analyses are essential to determine areas of greater petroleum potential. Legacy data from open file company reports has been compiled to form an integrated properties dataset.

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| <b>Positional Accuracy:</b>  | Positional accuracy is dependent on the quality of the source dataset and is highly variable.   |
| <b>Attribute Accuracy:</b>   | Attributes have been derived from multiple sources. Some interpretation of company provided data has been required to equate to NTGS formats, structures and definitions. Further review of the data, structure and alignment and integration with other NTGS datasets is probable in the future. |
| <b>Logical Consistency:</b>  | Internally consistent with source datasets including DIP-014. Further review of the data, structure and alignment and integration with other NTGS datasets is probable in the future.   |
| <b>Completeness:</b>         | The data is complete to the limits of available data. It is an ongoing dataset that will be continually augmented.  |
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| <b>Metadata Date:</b>        | 11/04/2023  |