

Hydrocarbon distribution: oil and gas fields, Phanerozoic and Neoproterozoic basins of Western Australia

by

DM Brooks and F Irimies

Abstract

The Energy Systems Atlas is a collection of new geological map layers designed to help explorers identify each of the essential elements and processes of a petroleum system: source, reservoir, seal, burial, maturation, stratigraphic framework, structure, trap formation and migration. A set of layers have been compiled to show the known distribution of hydrocarbons. This layer is oil and gas fields including operator, joint venture partners, location information and description of reservoir, seal, source, structural play type and hydrocarbons of each field within the Phanerozoic and some Proterozoic basins of Western Australia, which has been compiled from new and legacy data submitted to or generated by the Geological Survey of Western Australia (GSWA). These datasets are useful for assessing trends in oil and gas distribution. The hydrocarbon fields have been compiled from reports submitted to GSWA including from petroleum companies, other government departments, academic institutions and research bodies as well as new analysis arranged by GSWA covering the majority of Western Australian sedimentary basins. New hydrocarbon fields data will be added as they become open file.

The geology of the rocks within the hydrocarbon fields and descriptions of the data and methods of data collection are outlined in the original reports, which are included in the attribute tables for all data in the Energy Systems Atlas. GSWA publications are available from the [DMIRS eBookshop](http://www.dmirs.wa.gov.au/wapims). Unless otherwise stated the depths are given as metres measured depth.

How to access

The **Energy Systems Atlas** is best accessed using the Western Australian Petroleum and Geothermal Information Management System ([WAPIMS](http://www.wapims.wa.gov.au)). This online interactive mapping system allows data to be viewed and searched together with other datasets. The Energy Systems oil and gas fields are also available as a data package on request from WAPIMS/requests form.

Recommended reference

Brooks, DM and Irimies, F 2021, Hydrocarbon distribution: oil and gas fields, Phanerozoic and Neoproterozoic basins of Western Australia: Geological Survey of Western Australia, digital dataset, <www.dmirs.wa.gov.au/wapims>.

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