

Mud logs from petroleum wells, 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. To help assess well operational information, hydrocarbon shows, drilling parameters and lithology, the mud logs from petroleum wells within Western Australia have been compiled from data submitted to the Geological Survey of Western Australia (GSWA). These mud logs are useful for examining a summary of well operations such as casing points, depths of formation tests, drilling parameters such as Rate of Penetration (ROP), weight on bit, mud weight, gas shows through continuous gas monitoring, oil shows from fluorescence observations and well site lithological descriptions. The mud logs have been compiled from Well Completion Reports covering the majority of Western Australian sedimentary basins. New mud logs will be added as they become open file.

The formations and depth intervals of each mud log and a description of the data is given in the attribute tables in the Energy Systems Atlas. 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.dmirs.wa.gov.au/wapims)). This online interactive mapping system allows data to be viewed and searched together with other datasets. The Energy Systems Atlas mud logs are also available as a data package on request from WAPIMS/requests form.

Recommended reference

Brooks, DM and Irimies, F 2021, Mud logs from Petroleum wells, Phanerozoic and Neoproterozoic basins of Western Australia: Geological Survey of Western Australia, digital dataset, <www.dmirs.wa.gov.au/wapims>.

Disclaimer

This product uses information from various sources. The Department of Mines, Industry Regulation and Safety (DMIRS) and the State cannot guarantee the accuracy, currency or completeness of the information. Neither the department nor the State of Western Australia nor any employee or agent of the department shall be responsible or liable for any loss, damage or injury arising from the use of or reliance on any information, data or advice (including incomplete, out of date, incorrect, inaccurate or misleading information, data or advice) expressed or implied in, or coming from, this publication or incorporated into it by reference, by any person whosoever.



© State of Western Australia (Department of Mines, Industry Regulation and Safety) 2021

With the exception of the Western Australian Coat of Arms and other logos, and where otherwise noted, these data are provided under a Creative Commons Attribution 4.0 International Licence. (<http://creativecommons.org/licenses/by/4.0/legalcode>)