



REGIONAL STRATIGRAPHIC AND STRUCTURAL STUDY OF THE CANNING BASIN, WESTERN AUSTRALIA



REPORT 140



EXPLORATION
INCENTIVE SCHEME



REGIONAL STRATIGRAPHIC AND STRUCTURAL STUDY OF THE CANNING BASIN, WESTERN AUSTRALIA

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Regional structural and stratigraphic study of the Canning Basin, Western Australia (data)

A regional study of the major structural and stratigraphic components of the Canning Basin has been completed by personnel from the Centre for Petroleum Geoscience and CO2 Sequestration at The University of Western Australia and CSIRO Petroleum, with the study funded by the government's Exploration Incentive Scheme (EIS). The major components of the study are: (i) a series of basin-scale transects based on integrated interpretation of seismic reflection and potential field data constrained by geological data from wells; and (ii) creation of a digital geological model comprising maps of major stratigraphic surfaces and structures in the Fitzroy Trough. The primary purpose of the study was to determine the style and timing of tectonic events across the basin.

The results are described in the enclosed GSWA Report 140 (PDF) and can be investigated in detail via the two digital datasets on this USB. The 2D seismic and well data are assembled in a Kingdom® Suite project and the digital model is constructed in GoCAD®. Users will need appropriate software to open, view and interrogate these datasets and models.

The USB contains:

- GSWA Report 140 as a PDF
- Seismic interpretation and modelling projects:
 - Interpretation of 2D seismic and well data (Kingdom® Suite project)
This folder contains the Kingdom project of the seismic interpretation for the entire Canning Basin. To run the Kingdom project, open the file named 'Canning_MarienParra2009_TKSV8-1.tks' and select the author (GS).
 - Digital model of the Fitzroy Trough (GoCAD® model)
This folder contains a 3D geological model of the northern Canning Basin (Fitzroy Trough and its boundaries). Coordinates, wells, horizons (S1, S2, S3, S4, S5 and S6), faults, intrusions and salt bodies are organized in GoCAD under 'Favorites'. To display the 3D geological model, open the folder 'Canning_basin.prj', within which the elements of the model are organised alphabetically.

Report 140: Regional structural and stratigraphic study of the Canning Basin, Western Australia (data)

Product available from First Floor counter, Mineral House, 100 Plain St, East Perth, WA 6004, AUSTRALIA. Or ordered through: www.dmp.wa.gov.au/ebookshop

Enquiries to Email: gsd.dda@dmp.wa.gov.au; Phone: +61 8 9222 3459; Fax: +61 8 9222 3444.

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