

GEOSERVE

NUMBER 5 January/March 2002

**A GEOSCIENCE INFORMATION NEWSLETTER
SERVING THE MINING AND PETROLEUM INTERESTS OF QUEENSLAND**

NATIVE TITLE has been highlighted during the period, with the handing down of the Federal Court decision on February 8th.

In the February edition of the Queensland Government Mining Journal, the Minister, Mr Stephen Robertson, reported

“On February 8, Justice Wilcox of the Federal Court handed down a decision that has temporarily rendered inoperative parts of Queensland’s legislation for native title administration of high impact exploration and mining production tenures.

The Court found that determinations made in 2000 by the Commonwealth Attorney-General - allowing Queensland’s Alternative State Provisions were invalid on technical grounds.

This decision does not mean that the Queensland law is flawed. The problem lies with the Commonwealth’s determination process.....

The processes for grants of low-impact exploration permits are unaffected and the priority of current

applications for exploration and mining tenure over particular ground is assured”.

Details of the Native Title Processes can be found on the Department’s website at www.nrm.qld.gov.au under Mines - Native Title - Alternative State Procedures.

Booklets outlining the processes are available as hard copy or on the net. They are entitled “Exploration Tenements”, “Mining Claims”, “Mining Leases”, and “Prospecting Permits”.

For further information contact Ruth Kerr at ruth.kerr@nrm.qld.gov.au.



Queensland Government
Natural Resources and Mines

Queensland's Premier gas-producing Province is now even more Prospective

The Queensland Government assessment of the hydrocarbon potential of the Cooper and Eromanga Basins has addressed the origin of hydrocarbons and the timing of petroleum generation.

A detailed hydrocarbon generation model integrates burial histories with richness and chemical kinetic parameters for individual source units.

A major report, "Geology of the Cooper and Eromanga Basins, Queensland", has just been released on CD. The product sells for \$66.00 incl. \$6.00GST.

The Cooper and Eromanga Basins in Queensland and South Australia are the major oil and gas producers onshore in Australia.

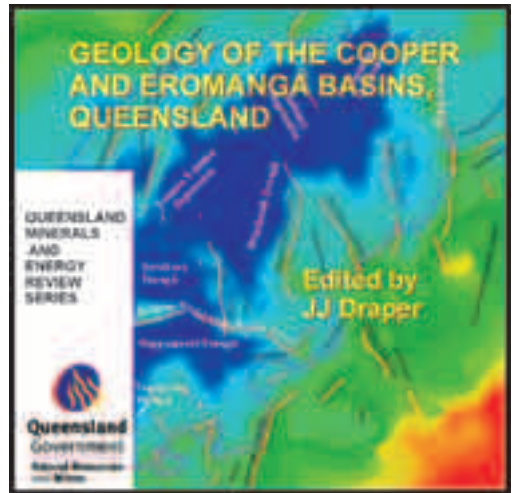
The Cooper Basin contains numerous gas fields and minor light liquid hydrocarbons.

The Eromanga Basin, on the other hand, contains a number of oil fields but only a few gas fields.

Oil generation and expulsion occurred dominantly in the mid-Cretaceous with minor expulsion in the Late Permian and late Tertiary.

Generation was predominantly from coals and disseminated organic matter in the Cooper Basin, with limited generation from Eromanga Basin rocks.

In Queensland, the major source rocks in the Cooper Basin are the coal measures of the Patchawarra, Epsilon



and Toolachee Formations. These units also contain the main reservoir rocks.

Permian shale units and Triassic rocks provide the main seals. Anticlinal and fault-controlled traps are major targets with stratigraphic traps also being targeted.

In the Eromanga Basin, source rocks are present in the Poolowanna, Birkhead, Westbourne, and the Murta Formations.

All units below the Wallumbilla Formation contain reservoirs with many multi-pool fields. The Hutton Sandstone and Hooray Sandstone are the most significant reservoir rocks.

Locally, sealing occurs where fine-grained lacustrine rocks are present. Regional sealing is provided by the Cretaceous marine mudstones.

Eromanga Basin traps are generally anticlinal often with fault control.

For further information contact John Draper on john.draper@nrm.qld.gov.au.

Third Edition of the MINOCC Database CD

The MINOCC/QMIN CD contains geological and statistical information on operating and abandoned mines, active and dormant mineral prospects, and known mineral occurrences in Queensland (excluding coal).

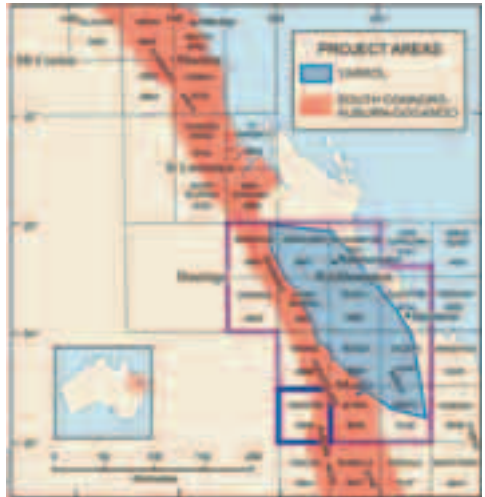
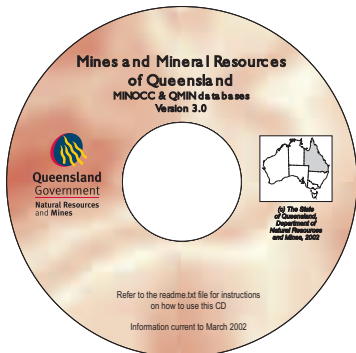
The Third Edition of the MINOCC (Mineral Occurrence Database) CD has been compiled and copies are available for \$880.00 incl. \$80.00GST.

This version incorporates new mine data from the Mount Isa Minerals Project in North-West Queensland, and from the Yarrol / South Connors - Auburn - Gogango Projects in Central Queensland.

The CD contains more than 17,800 mine, prospect and mineral occurrence locations with detailed descriptions of their geological, mining, and exploration histories.

Each site is referenced back to the original data source.

For further information contact Paul Garrad on paul.garrad@nrm.qld.gov.au.



New 1:100 000 scale geological map for Central Queensland

The BANANA 1:100 000 scale geological map has now been released, and can be purchased for \$38.50 (including \$3.50GST).

The map is another output from the Yarrol / South Connors - Auburn - Gogango Projects.

It complements the previously released Rookwood, Ridgeland, Rockhampton, Duinga, Mount Morgan, Bajool, Gladstone, Biloela, Calliope, Scoria and Monto maps released for the area (see map).

A major report accompanied by a seamless 1:250 000 scale geological map is presently being produced, and will be released in the near future.

For further information contact Dr Cecil Murray at cec.murray@nrm.qld.gov.au.

New airborne geophysical survey of Northern Bowen Basin

The Department of Natural Resources and Mines has sought tenders for a new airborne geophysical survey of the Northern Bowen Basin this year, and plans to announce the successful tender shortly.

The survey will have a line spacing of 400m and a survey height of 80m. About 41,250 line kilometres of magnetic and radiometric data will be collected from April 2002. The survey

flying is expected to take about 1½ months.

The Northern Bowen Basin was chosen for the airborne survey because of the intense interest in coal resources in the area.

The survey forms part of a joint Japanese/Queensland Government (NEDO) research project. The Bowen Basin has about 30 coal mines and is the major coal-producing area of the state. It has the potential for the discovery of new coal resources.

Report highlights key resource areas in Calliope Shire

Land Use and Extractive Industries Report 7 by Departmental Officers Warwick Willmott and Barry Neville entitled “Key Resource Areas as planning constraints in Calliope Shire mineral and extractive resources” is now available from the Department.

The report highlights the recent recognition of the need for improved planning required to protect resources and to reduce the potential for conflict between past, current and future mining and extractive industry and urbanisation.

Commodities featured include limestone, silica sand, quarry rock, sand and gravel, and oil shale.

Copies sell for \$11.30.



To order any of the products shown in this newsletter, please contact the Geoscience Sales unit on (07) 3237 1434 or email sales@nrm.qld.gov.au

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