This data package includes:

- Geospatial data in this product are stored in ESRI® ArcGIS™ version 9.0 (or later)
- Accompanying documents are stored in Microsoft® PowerPoint© and Adobe® Acrobat PDF formats.

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Disclaimer:
This data package is not guaranteed to be free from error or omission. Therefore the state of New South Wales and its employees disclaim liability of any act done or omission made on the information in this data package, and any consequencs of such acts or omissions.

All spatial data referenced to Geocentric Datum of Australia (GDA94)

Installation:
GIS Project: Navigate to the folder ArcGIS on the DVD and launch the ArcGIS project /f_ile MR702_MDE_project.mxd (requires ArcGIS 9.x).
Supporting documents: Navigate to the folder Reports on the DVD to view the various supporting documents.

Integrated regional interpretation of basement composition, lithology, and structure of the Murray, Darling and Eromanga Basins in New South Wales

New depth to basement (SEEBASE™) model of Murray and Eromanga Basins and updated model of Darling Basin

Predictive maps of basement-controlled hydrocarbon generation and migration

Geophysical and base data: DTM, Landsat, high-resolution magnetic, gravity, seismic, geology, cultural

Project report incorporating a reconstruction of basin evolution

GEOLoGICAL Survey of New South WaleS
Through the New Frontiers initiative, the New South Wales Government is committed to promoting exploration in the under-explored north- and south-western regions of the state. Exploration and data interpretation in these areas had been constrained by lack of information.

The Discovery 2000 program was introduced in 1994–95. It provided $35 million over six years and resulted in high-resolution airborne geophysical coverage over much of New South Wales.

In 2001, a further $30 million was committed over seven years under the Exploration NSW initiative, which took airborne geophysical coverage to more than 80% of the state.

In 2006, the government announced the New Frontiers initiative with a focus on greenfields opportunities in New South Wales — in particular the far north-western and south-western ‘frontier’ areas.

As technology has changed, so has the way in which mapping information has been delivered to the industry.

The Geological Survey, through the NSW Department of Primary Industries, has developed a variety of geoscience products, including data sets on DVDs/CDs and maps that are available for both the state and individual projects.

Geoscience (GIS) data packages on CD or DVD ROM typically contain detailed geology, geophysical imagery, mineral occurrences, geochemistry, drill-holes, tenements, reports and other spatial information.

Recently produced data packages include datasets in ArcGIS and MapInfo formats, and are designed to autorun. Data packages produced earlier generally contain datasets in ArcView 3x and MapInfo formats, which may affect some functionality when used with more recent software such as ArcGIS.

Pre 2002 data packages generally contain datasets using the AGD66 datum; more recent packages employ the GDA94 datum.

Data packages are AU$110 per CD-ROM/DVD-ROM (GST inclusive). An order form for these products is on the last page or email: geoscience.products@dpi.nsw.gov.au
NEW PRODUCTS

NSW 1:25 000 Coastal Quaternary Geology Data Package 2007, Version 2
GIS datasets include new 1:25 000 Quaternary geological mapping which has been integrated with best available 1:25 000 bedrock geology mapping to provide a seamless geology data set for regional areas of the New South Wales north and south coasts. Updated resource assessment data are also provided as part of this data package, complimenting the geological mapping. The resource assessment data informs land use planners of the range of mineral and petroleum issues existing in the region.

NSW Minerals Exploration Database March 2008, Version 2
Statewide datasets include metallic mineral deposits, industrial minerals, mineral exploration drill holes and historical mineral EL locations.

Cargelligo 1:250 000 Geoscience Database 2007, Version 2
This new version provides a comprehensive digital geological dataset derived from 1:100 000 and 1:250 000 scale second-generation geological mapping of the Cargelligo 1:250 000 map sheet area. This data package includes new surface and basement geology layers, along with new point data layers derived from geological mapping (whole rock geochemistry, assays, U-Pb SHRIMP dates, field descriptions, and petrographic data). New structural data, time-space plots, and cross sections are provided together with a range of geophysical images and the latest mineral occurrence and drill hole data.

FREE
An essential part of the mineral explorer’s toolkit. The Explorers Directory 2008 showcases mineral exploration opportunities in New South Wales. This free mini-DVD is a significant upgrade over previous editions. As well as information on mineral explorers operating in New South Wales, it now includes statewide geological, mineral occurrence and geophysical data in ArcReader format. Georectified 1:250 000 series geological maps are also included. The new frontier Thomson and Delamerian Orogens are also featured.

Statewide databases

New South Wales Industrial Minerals Database May 2003, Version 2
Contains over 9,000 operations and occurrences.
* See also Bulletin 33: Industrial Mineral Opportunities in NSW, a publication covering over 50 industrial minerals mined in the state.

New South Wales Stream Sediment Geochemistry 2004
Contains 255,000 stream sediment sample results from statewide company explorations. The Access database includes tenement data, location co-ordinates, sample type, analytical method and assay results for each sample.

New South Wales Diamond Exploration Opportunities 2004
A study of the diamond potential of NSW by Peter Temby and a diamond occurrence database (over 120 records). Includes geophysical and diatreme layers.

1:250 000 New South Wales Statewide Geology December 2003
A compilation of best available digital map data for surface and interpreted Quaternary and ‘bedrock’ geology for NSW.
New England Orogen databases

**Inverell Geoscience Database**  May 2003
Covers the eastern half of the Inverell and western part of the Grafton 1:250 000 map sheets. Datasets include geology, TMI, 1VD, DTM, ternary radioelement, historic titles, drill holes, mineral occurrences, petrological data, stream sediments, whole rock geochemistry and grab sample assay data and geophysical interpretation map.

**Peel Geoscience Database**  September 1999
Covers the Inverell and Manilla 1:250 000 map sheets. Datasets include geology, TMI, 1VD, DTM, ternary radioelement, historic titles, drill holes, mineral occurrences, petrological data, stream sediments, whole rock geochemistry and grab sample assay data. Includes 1:100 000 geophysical interpretation map.

**Peel South Geoscience Database**  March 2002
Covers the southeastern portion of the Manilla 1:250 000 map sheet area. Datasets include geology, TMI, 1VD, DTM, radioelement images, historic titles, drill holes, mineral occurrences, petrological data, exploration geochemistry data and 1:100 000 geophysical interpretation map.

**Warwick-Tweed Heads 1:250 000 Metallogenic Data Package**  March 2002
New South Wales portion of the Warwick and Tweed Heads 1:250 000 sheets. Datasets include geology maps (prelim. Qld data and 1:25 000 mineral occurrence maps), historic titles, mineral occurrences, heavy mineral sand placers, petrological data, exploration geochemistry and geographical data.
Regional databases

NSW 1:25 000 Coastal Quaternary Geology Data Package (DVD)  NEW PRODUCT  2007, Version 2
GIS datasets include new 1:25 000 Quaternary geological mapping which has been integrated with best available 1:250 000 bedrock geology mapping.

Nandewar Regional Assessment Geoscience Data Package  January 2004

Brigalow Belt South Bioregion Geoscience Data Package  April 2003
Covers the New South Wales portion of the Brigalow Belt Bioregion. Contains GIS data, Reports, Maps and 3D models produced for the Resource and Conservation Assessment Council (RACAC) as part of the Western Regional Assessment of New South Wales. It includes reports for the Geology Integration and Upgrade (WRA19) and Mineral and Petroleum Resources and Potential (WRA20) projects that were completed by the NSW Department of Mineral Resources for the BBSB Assessment.

Lachlan Orogen databases

Broken Hill Geoscience Database  January 2002, Version 1b
Covers part of the Milparinka, White Cliffs, Menindee, Wilcannia, Broken Hill and Cobham Lake 1:250 000 map sheet areas. GIS formatted data set contains the latest geophysical imagery, 1:300 000 and 1:250 000 scale geology, comprehensive exploration datasets, regional interpretations, Landsat images and geographical reference data.

Potential for Cu-Au Systems in the Broken Hill Block  September 2002
Contains two reports commissioned by the Geological Survey into copper-gold mineralisation within the Broken Hill Block. Willis (2000) discusses two recognised styles of mineralisation in comparison with the Curnamona. Anderson and McConarchy (2001) discuss the Cu-Au prospectivity of the BH Block following analysis of regional exploration datasets.

Broken Hill Geoscience Database  June 2002, Version 2
Covers the Corona, Fowlers Gap, Broken Hill, Taltingan, Redan and Thackaringa 1:100 000 sheets. Customised GIS containing the latest 1:25K scale outcrop geology, 1:50K metavolcanic and 1:100K regolith coverages: comprehensive geophysical imagery including hyperspectral surveys, regional stratigraphic interpretations and extensive exploration datasets. Specify ArcView or Mapinfo format when ordering (separate CDs).

Lachlan Orogen databases

Coblin Geoscience Database  November 1997
Covers the Goulburn 1:250 000 map sheet and includes geology, general index data, geographical data, and exploration data including geochemistry and historic titles. Original geophysical images and contour maps are available separately from Geoscience Australia.

Albury Geoscience Database  November 1997
Covers six 1:100 000 sheets, (Lockhart, Walbundrie, Holbrook, Wagga Wagga, Tarcutta and Rosewood). GIS formatted data sets include comprehensive geology and exploration data, TMI, DTM, ternary radiometrics; and contoured TMI, gravity and DTI. Landsat imagery is also included.

Bourke Geoscience Database  May 1996
Centres on the Bourke 1:250 000 map sheet area. GIS formatted data sets include comprehensive geology and exploration data, TMI, ternary radiometrics, gravity, DTI; and contoured TMI, gravity and DTI. Cobar 1:250 000 map data also included.

Cobar Geoscience Database  May 1998
Covers both the Cobar and Nymagee 1:250 000 map sheet areas. Datasets include 1:250 000 & 1:100 000 scale geology, TMI, VD, gravity, drill holes, mineral deposits, petrological data, stream sediment data and whole rock geochemistry.

Dobbo Geoscience Database  June 1999
Covers the Dubbo 1:250 000 map sheet and includes 1:250 000 and 1:100 000 geologica maps, geophysical images (TMI, gravity, radionelement subsampled images), exploration data (ELs, mineral occurrences) and petrographic data. Original geophysical images are available separately from Geoscience Australia.

Goulburn Geoscience Database  November 1997
Covers the Goulburn 1:250 000 map sheet and includes geology, general index data, geographical data, and exploration data including geochemistry and historic titles. Original geophysical images and contour maps are available separately from Geoscience Australia.
**Petroleum databases**

**Oaklands Basin Petroleum Data Package**  December 2003
A stand-alone conventional petroleum and coal seam methane prospectivity analysis.

**Eromanga Basin Petroleum Data Package**  May 2001
A petroleum prospectivity analysis including evaluation of well, seismic and regional geophysical data. Isopach contour maps of key formations.

**Darling Basin SEEBASE™ Project**  December 2003
A structural synthesis study of the Darling Basin by SRK Consulting and DMR. Includes an integrated regional interpretation of basement and geophysical data.

**Bowen and Surat Basins Petroleum Data Package**  September 2002
A petroleum prospectivity analysis including interpretation of geological and geophysical data. Isopach contour maps of key formations.

**Darling Basin Reprocessed Seismic Data Release (DVD)**  August 2004
Provides reprocessed seismic data covering part of the Darling Basin. Includes SEGY files and supporting reports and other data.

**Murray-Darling-Eromanga SEEBASE™ and GIS Project (DVD)**  June 2006
The Murray—Darling—Eromanga SEEBASE™ (Structurally Enhanced View of Economic Basement) and GIS Project presents a 3D model of basement structure, which refines and extends the understanding of basin evolution and hydrocarbon generation / migration in the Murray, Darling and Eromanga Basins in New South Wales. Includes ArcGIS 9.0 digital data, which also incorporates supporting geospatial layers including DTM, magnetic and gravity data, and geological structure.
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