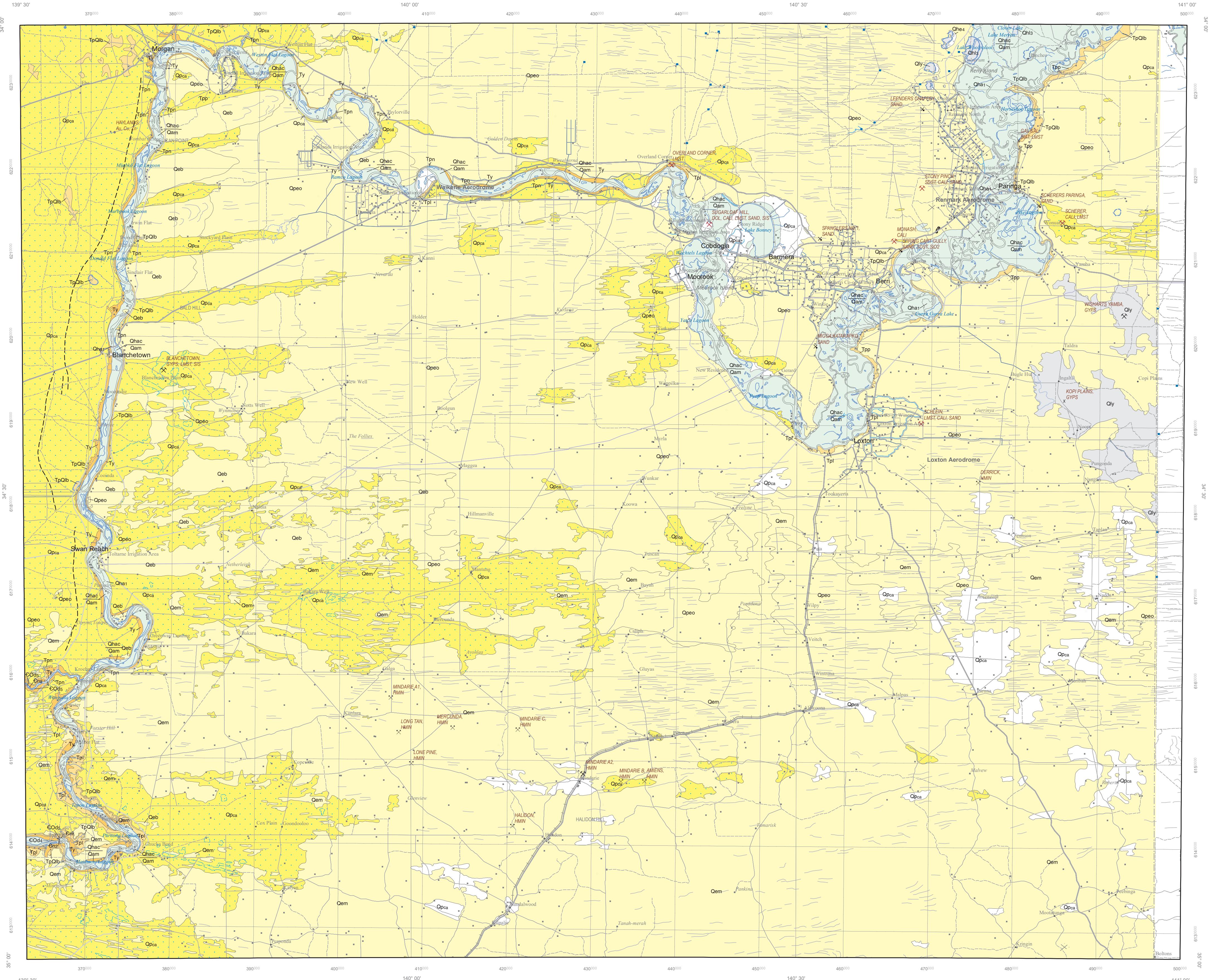


RENMARK

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

AUSTRALIA 1:250 000

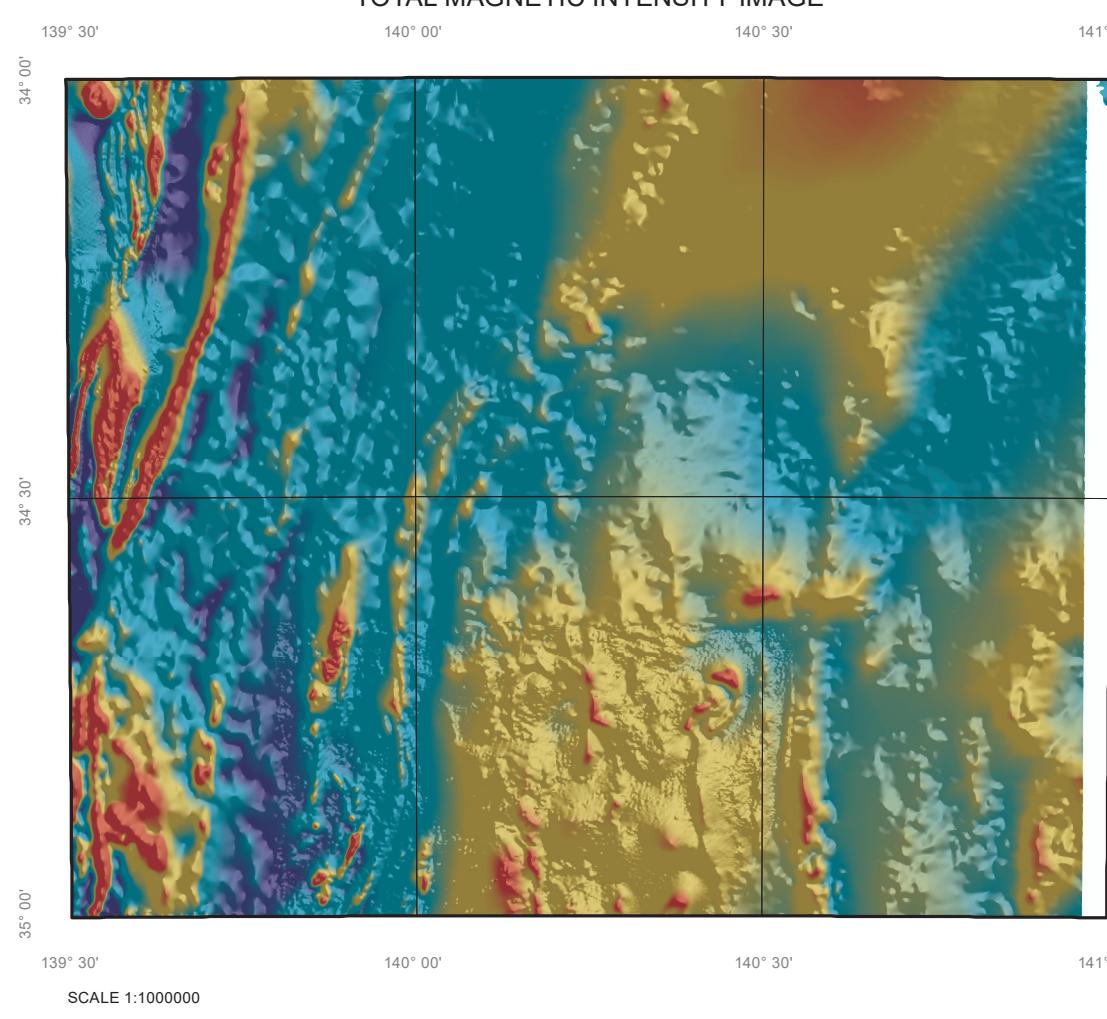
SA GEOLOGICAL ATLAS SERIES SHEET SI5410



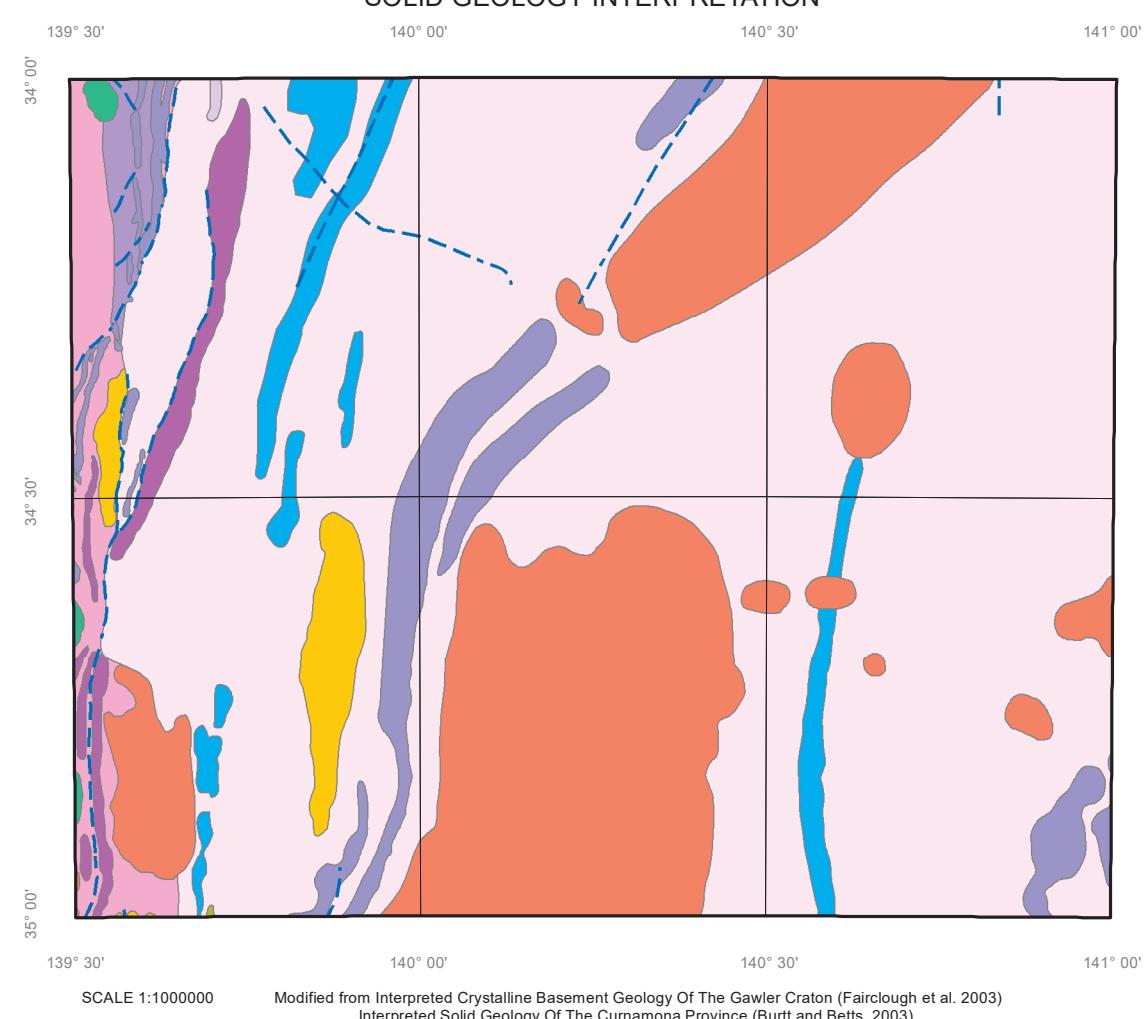
REFERENCE

HOLOCENE	HOLOCENE ALLUVIAL/FLUVAL UNIT 1: Present day Holocene alluvium; current bedload.
Qha	COASTAL/ESTUARINE FORMATION: Coarse-grained, fluvial and fine grained flood plain deposits. Age 6020±150, 4050±150 BP on c14 at Chowilla.
Qhac	HOLOCENE AEOLIAN UNIT 2: Holocene gypsum dunes/unesites.
Qhe	HOLOCENE LACUSTRIAL/PLAYA UNIT 3: Holocene claypan and lagional sediments.
Qhi	
PLEISTOCENE-HOLOCENE	
Qm	MONOMAN FORMATION: Sand, medium to coarse-grained; basal gravel.
Qeo	BUNYIP SAND: Quartz sand, pale red-brown, carbonate. Dunes.
Qem	MOLINEAU SAND: Sand, pale yellow, fine to medium-grained quartz.
Oly	YAMBA FORMATION: Clay, lacustrine, gypsum-quartz sand. Dunes, pebbles.
PLEISTOCENE	
Qeo	WORREN FORMATION: Sand, pale reddish-brown silty and clayey quart. Petrogenic carbate. Aeolian.
Qhes	PLEISTOCENE CALCRETE: Undifferentiated Pleistocene calcretes.
PLEISTOCENE	
Tp	BLANCH TOWN CLAY: Clay, greenish grey, sandy; limestone, thin; and quartz sand; clay, green-grey, reddish, sandy.
TpQb	NORWEST BEND FORMATION: Limestone, sandy, sandstone, calcareous, oyster beds. Estuarine.
TpP	PARRILLA SAND MEMBER: Sand, fine to medium-grained, unfossiliferous, dolomite, dolley, quartz rich, sandy clay. Aeolian, lacustrine and fluvial deposits.
TpL	LOXTON SAND: Sand, glauconitic, micaceous and shaly gravel; Coarse-grained sand and fine gravel, and calcareous micaceous, medium to coarse-grained limestone. Shallow marine, beach, sandbar, lacustrine and fluvial.
OLIGOCENE-MIOCENE	
Ty	MURRAY GROUP: Limestone, echinoidal, bioclastic, ooidal sandstone, calcareous, minor carbonaceous clay and silt.
TERTIARY	
T	TERTIARY ROCKS: Undifferentiated Tertiary rocks.
CAMBRIAN-ORDOVICIAN	
SDg	DELAMERIAN IGNEOUS UNIT 4: Undifferentiated Delamerian felsic intrusive. Early 3-4 and 5-type, alk-A-type. ±514-460 Ma.
SDm	DELAMERIAN IGNEOUS UNIT 5: Undifferentiated Delamerian mafic igneous rocks.
CAMBRIAN	
Er	NORMANVILLE GROUP UNIT 2: Interbedded Heatherdale Shale and Truro Volcanics.
Enr	TINDO VOLCANO: Andesitic, dark grey, amygdaloidal, trach-basalt and andesite, greenish, calcite-filled amygdalites, hawellite pillow lava, trachyte, trach-basalt, andesite, concretionary, volcaniclastic sediment, tuff, phyllite, sandstone, limestone.

TOTAL MAGNETIC INTENSITY IMAGE



SOLID GEOLGY INTERPRETATION



SCALE 1:250,000

KILOMETRES
0 5 10 15 20 25
25 KILOMETRES

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2020

Topographic detail based on TOPO-250K GEODETA (source scale 1:250 000)
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Computer generated from SA GEOLGY database
(Digital data available upon request)

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Department for Energy and Mining SA.

Grey numbered lines indicate the 10000 metre grid grid.

Transformations: GDA2020 to GDA94 Central Australia 2020.

The lake boundaries displayed on this map may have been derived from geological interpretation

and may not match lakes interpreted by topographic mapping authorities.

Mapping and Compilation by J. B. Firman, B. Sc. (Hons) assisted by A. J. Antreichewski, L.C.

Barnes, B. Sc. (Hons), R. Boonstra, R. Combe, N. Duncan, P. Elliot, B.J. Morris, P. C. Thomas, R.

Will, and A.F. Williams, B. Sc. (Hons)

R.C. Colour Drawing by J. B. Firman, B. Sc. (Hons)

Geological boundaries displayed on this map have been

Derived from geological interpretation and are not

intended to be used for navigational purposes.

Copies of this map can be obtained from the

Department for Energy and Mining SA, Adelaide.

2020

The Total Magnetic Intensity Image has been compiled using
aeromagnetic data from the
Department for Energy and Mining, South Australia.
Aeromagnetic data is derived from the GEM3000 image
processed by the Geological Survey of South Australia.

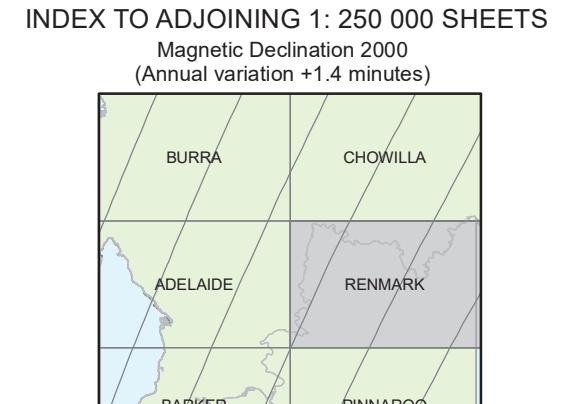
A two standard deviation contrast stretch has been applied to the raster image above.

nTesla
-879.877 -46.754 1510.264
232.421 138.913

INDEX TO 1:100 000 SHEETS

Morgan 6829	Moorook 6929	Renmark 7029
Swan Reach 6828	Mantung 6928	Paruna 7028

INDEX TO ADJOINING 1: 250 000 SHEETS



PRINCIPAL ROAD
SECONDARY ROAD
MINOR ROADS
VEHICULAR TRACKS
FERRY ROUTE
OPERATIONAL RAILWAY
FENCE
GAS, OIL PIPELINE
WATER PIPELINE
IDENTIFIED POINT
BUILDING
LANDING GROUND
TOWN OR LOCALITY

OCURRENCE
PROSPECT
DEPOSIT - NO MINING
MINE - METALS AND INDUSTRIAL MINERALS
QUARRY - CONSTRUCTION MATERIALS (HARD ROCK)

MINING
COMMODITIES

LINEAR FEATURES

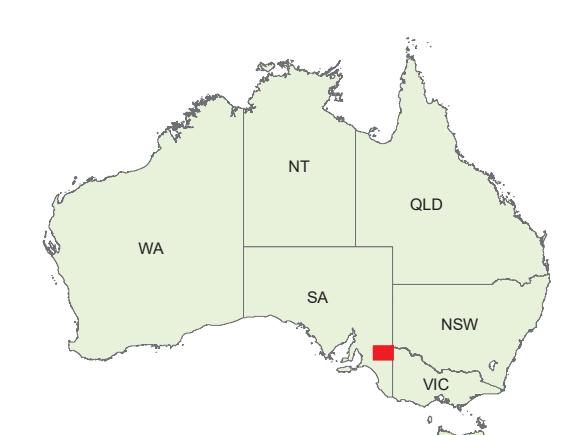
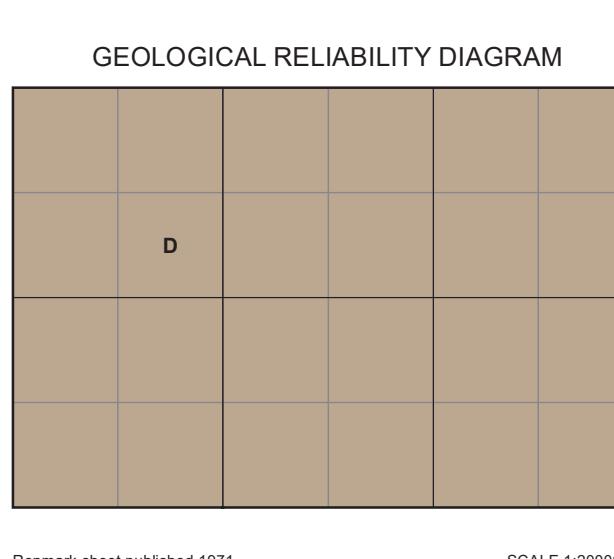
GEOPOLITICAL BOUNDARY
GEOGRAPHICAL BOUNDARY POSITION ACCURATE

HYDROGRAPHIC AND GEOMORPHIC FEATURES

LINEAR STRUCTURES

ESCARPMENT
FAULT POSITION APPROXIMATE
KARST FORMATIONS
LINEAMENT

LAKE
INTERMITTENT LAKE
MAJOR WATERCOURSE
MINOR WATERCOURSE
FLOODPLAIN
SWAMP
BORE
WATER TANK
SAND RIDGE



DIGITAL EDITION
SUBJECT TO AMENDMENT
See published printed map for further information