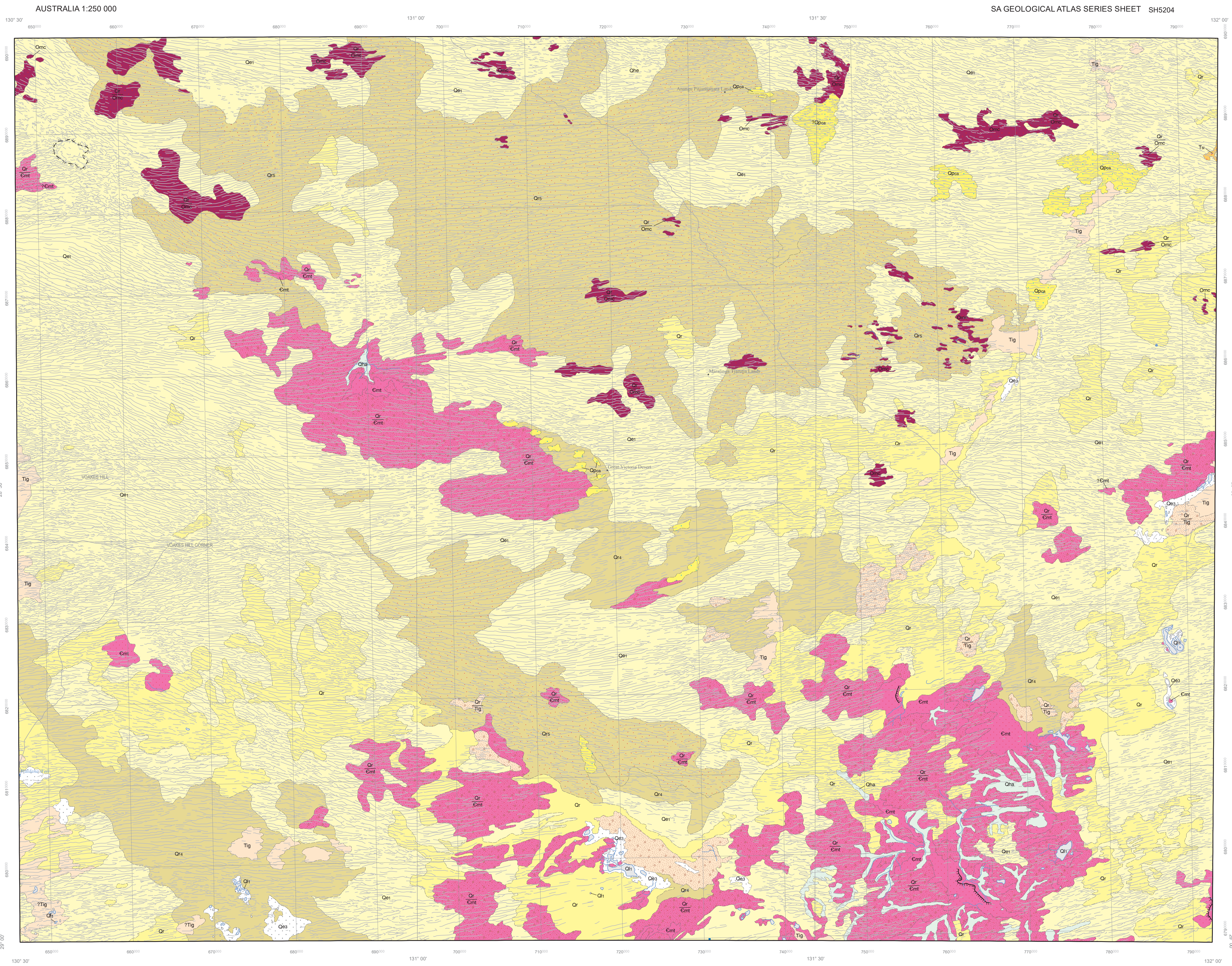


# WELLS

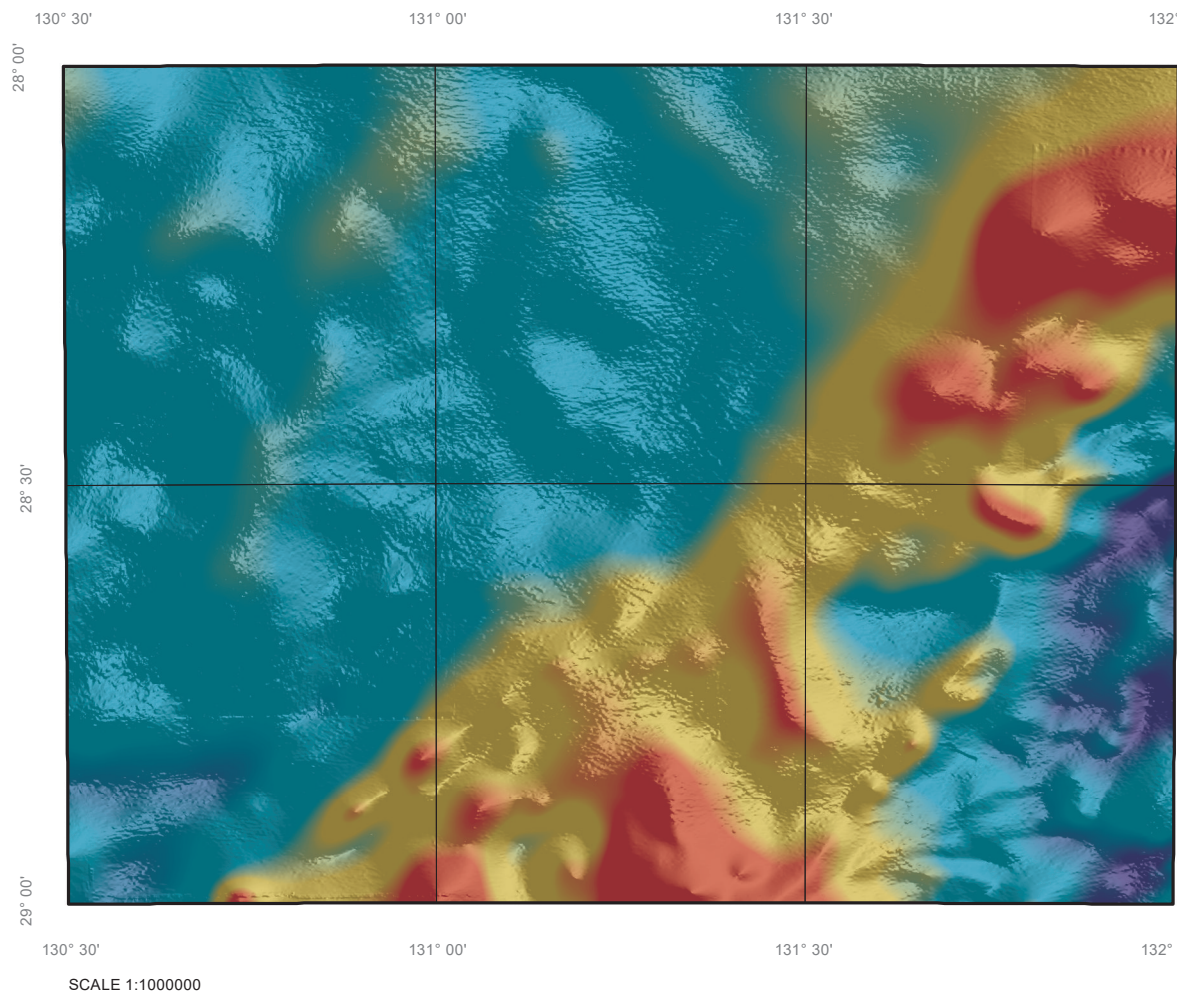
GEOLOGICAL SURVEY OF SOUTH AUSTRALIA  
DEPARTMENT FOR ENERGY AND MINING



## REFERENCE

HOLOCENE	
Qha	HOLOCENE ALLUVIAL/FLUVIAL SEDIMENTS: Undifferentiated Holocene alluvial/fluviol sediments.
PLEISTOCENE-HOLOCENE	
Qa1	QUATERNARY AEOLIAN UNIT 1: Quaternary dunefield sands.
Qa2	QUATERNARY AEOLIAN UNIT 2: Quaternary aeolian dune/cliff crests.
Qa3	QUATERNARY AEOLIAN UNIT 3: Quaternary aeolian dune/cliff crests.
Ql1	QUATERNARY LACUSTRINE/PLAYA UNIT 1: Quaternary playa sediments.
Qr	QUATERNARY REGOLITH/COLLUVIAL SEDIMENTS: Undifferentiated Quaternary colluvial/regolith sediments.
Qr4	QUATERNARY REGOLITH/COLLUVIAL UNIT 4: Quaternary calcareous sandy regolith. Interpreted from Landsat imagery. NOORINA, WELLS, WYOLA.
Qr5	QUATERNARY REGOLITH/COLLUVIAL UNIT 5: Quaternary hemiporous sandy regolith. Interpreted from Landsat imagery. NOORINA, WELLS, WYOLA.
PLEISTOCENE	
Qpca	PLEISTOCENE CALCRETE: Undifferentiated Pleistocene calcrete.
EOCENE-PLEISTOCENE	
Tg	GARFORD FORMATION: Mudstone, carbonate, stromatolite, oncoid, and oolite, gypsiferous, minor sandstone and gill tubercles. Upward change from argillaceous to carbonate mudstone. Lacustrine to flood plain.
TERTIARY	
Tsl	TERTIARY SILCRETE: Undifferentiated Tertiary silcrete.
ORDOVICIAN-SILURIAN	
Cmt	MOUNT CHANDLER SANDSTONE: Quartz sandstone, well rounded, fine to medium-grained, white, cross-bedded with heavy mineral laminae. Sandstone, silty-sandstone, silty-siltstone, orange to reddish, minor layers of dolomite, quartz pebbles.
CAMBRIAN	
Ent	TRANOR HILL SANDSTONE: Sandstone, well-sorted, kaolinitic, silty-sandstone, calcareous, white, grey, red-brown, silty-sandstone, calcareous, well-sorted, silty-sandstone.

TOTAL MAGNETIC INTENSITY IMAGE



The Total Magnetic Intensity image has been compiled using aeromagnetic data from the Department for Energy and Mining, South Australia. Aeromagnetic data have been merged, gridded and image generated by the Geological Survey of South Australia.

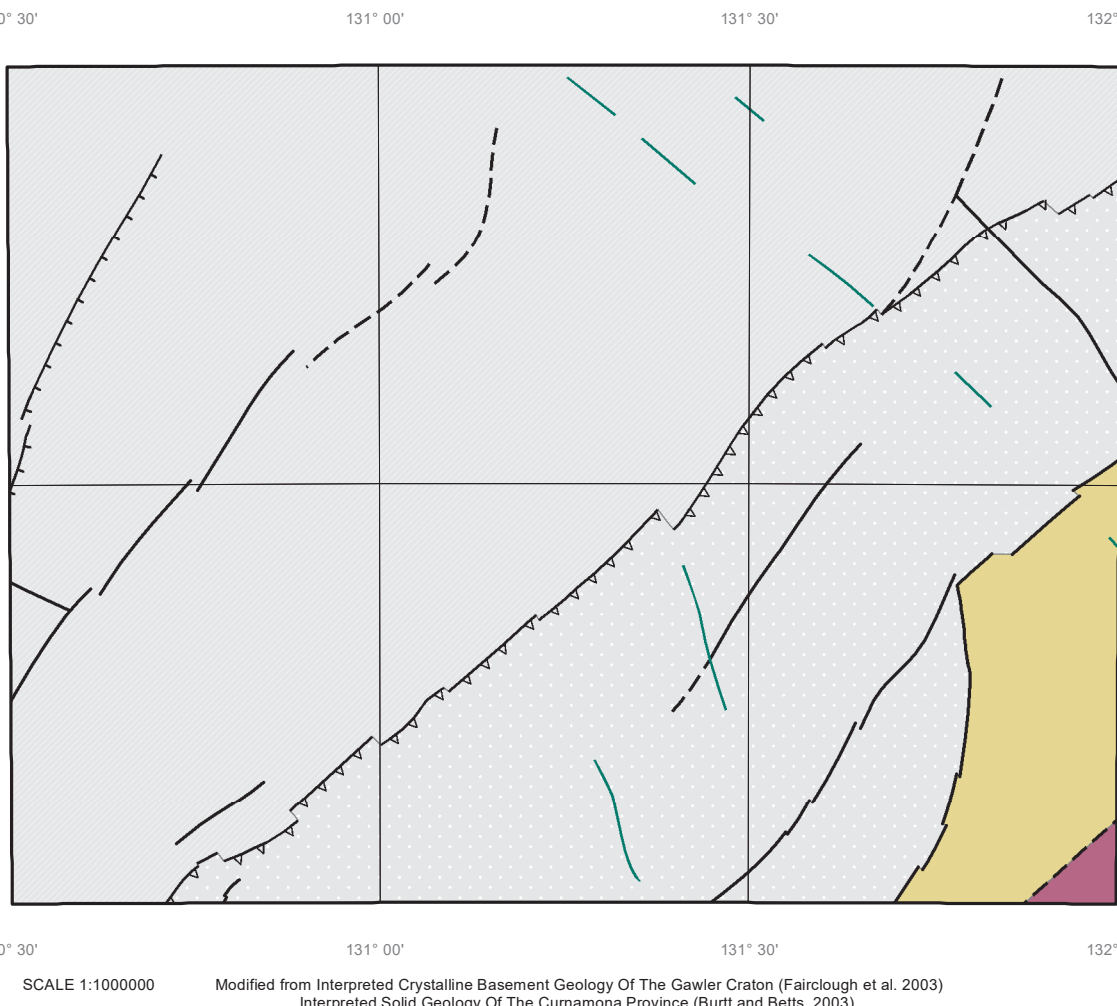
SCALE 1:100000

nT

-275.071 -134.284 139.957 648.618

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

SOLID GEOLOGY INTERPRETATION



Modified from Interpretive Baseline Geology Of The Gawler Craton (Faulstich et al. 2003). Interpreted Rock Geology Of The Gawler Craton (Burt and Bell, 2003). Mangrove Block, Centre Australia regional geology from interpretation of aeromagnetic data (Burt and Bell, 2003). Solid Geology South Australia (Coomes, 2006).

### Solid Geology

LM9	Palaeo-proterozoic-Mesoproterozoic unit 9
LM10	Palaeo-proterozoic-Mesoproterozoic unit 10
L40	Palaeo-proterozoic unit 40
AM1	Archaean-Mesoproterozoic unit 1
Ng	Gardiner Dolomite

### Solid Geology - Linear Structure

Fault position accurate	---
Fault position approximate	---
Fault normal to younger rocks	---
Fault reverse approximate triangles upthrown side	---
Fault reverse triangles upthrown side	---

SCALE 1:250,000



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2020

Topographic detail based on TOPO-250K GEODATA (source scale 1:250,000) supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and DEM data is not guaranteed.

Computer generated from SA GEOLOGY database (Digital data available upon request). Current version 2018 Digital.

Product of Spatial Information Services. Published by, and with the authority of, the Department for Energy and Mining SA.

Grey numbered lines indicate the 10000 metre Map Grid Transverse Mercator Projection, Geocentric Datum 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. Not all structures are represented on this particular map.

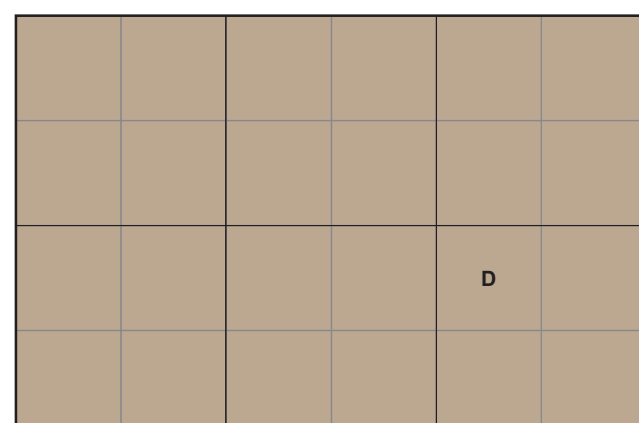
Mapping and Compilation by G. W. Krieger, B.Sc. (Hons), from LANDSAT imagery with limited ground control, with contributions from M. C. Benbow, B.Sc., and G.M. Pitt, B.Sc.

R.C. Coburn, Director, Geological Survey of South Australia.

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.

### GEOLOGICAL RELIABILITY DIAGRAM



Wells sheet preliminary published 1971

SCALE 1:250,000

A Detailed ground traverses  
B Image interpretation with limited ground traverses  
C Image interpretation with potentially some minor ground traverses  
D Image interpretation only

### INDEX TO 1:100 000 SHEETS

Narrie 5041	Pupilla 5141	Ungoolya 5241
Waldana 5040	Mena 5140	Leemurra 5240

### INDEX TO ADJOINING 1:250 000 SHEETS

BRISGATE	LINDSAY	EVERARD
NOORINA	WELLS	GLEES
WYOLA	MAURICE	TALLARANGA

### GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE	---
GEOLOGICAL BOUNDARY POSITION APPROXIMATE	---

### LINEAR STRUCTURES

ESCARPMENT	---
ESCARPMENT APPROXIMATE TOPOGRAPHIC	---
DEPRESSION	---
GYPSITE DUNES	---

### CULTURAL FEATURES

VEHICULAR TRACKS	---
IDENTIFIED POINT	---

### HYDROGRAPHIC AND GEOMORPHIC FEATURES

INTERMITTENT LAKE	---
MINOR WATERCOURSE	---
BORE	---
WATER TANK	---
SAND RIDGE	---