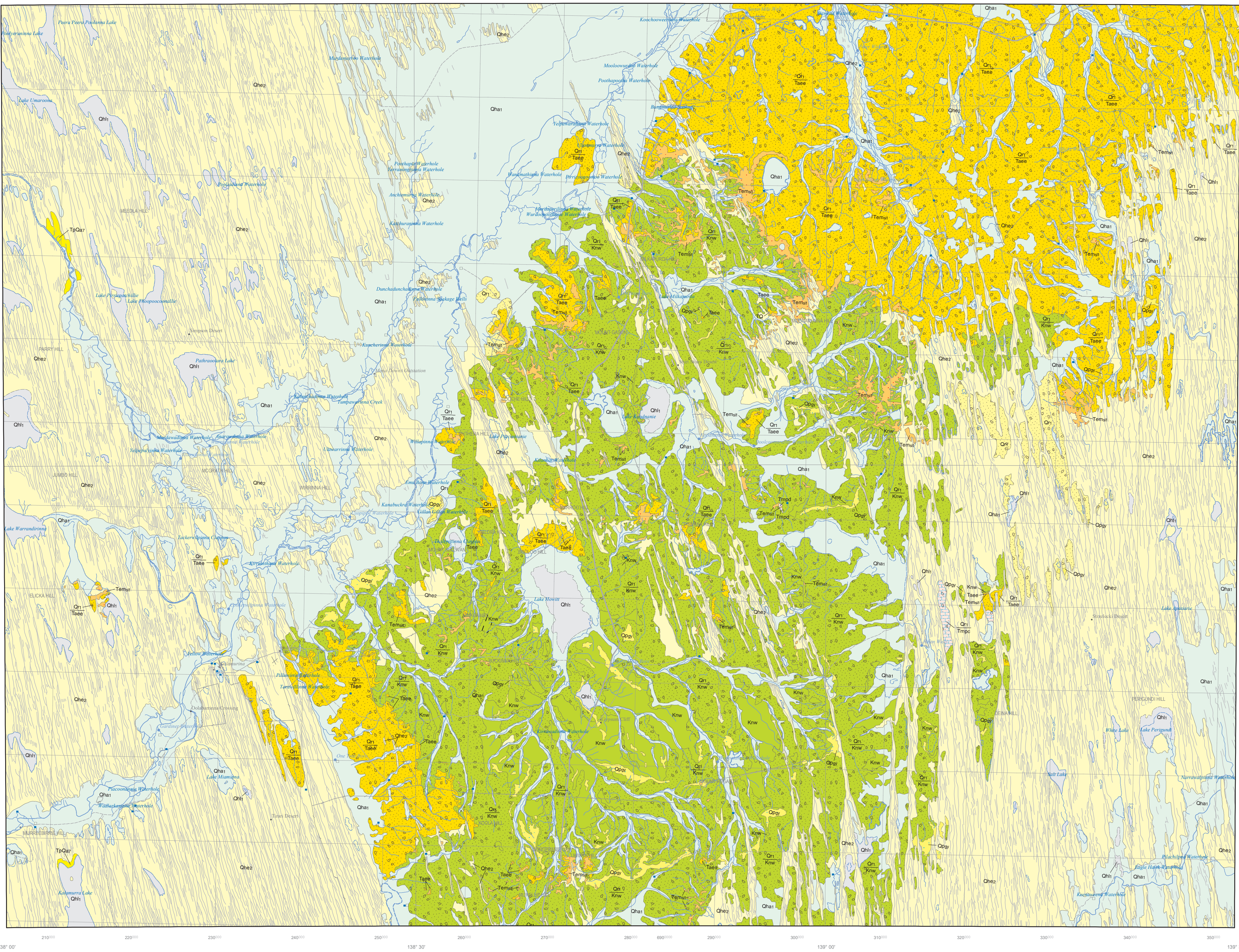


GASON

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA
DEPARTMENT FOR ENERGY AND MINING

SA GEOLOGICAL ATLAS SERIES SHEET SG5413

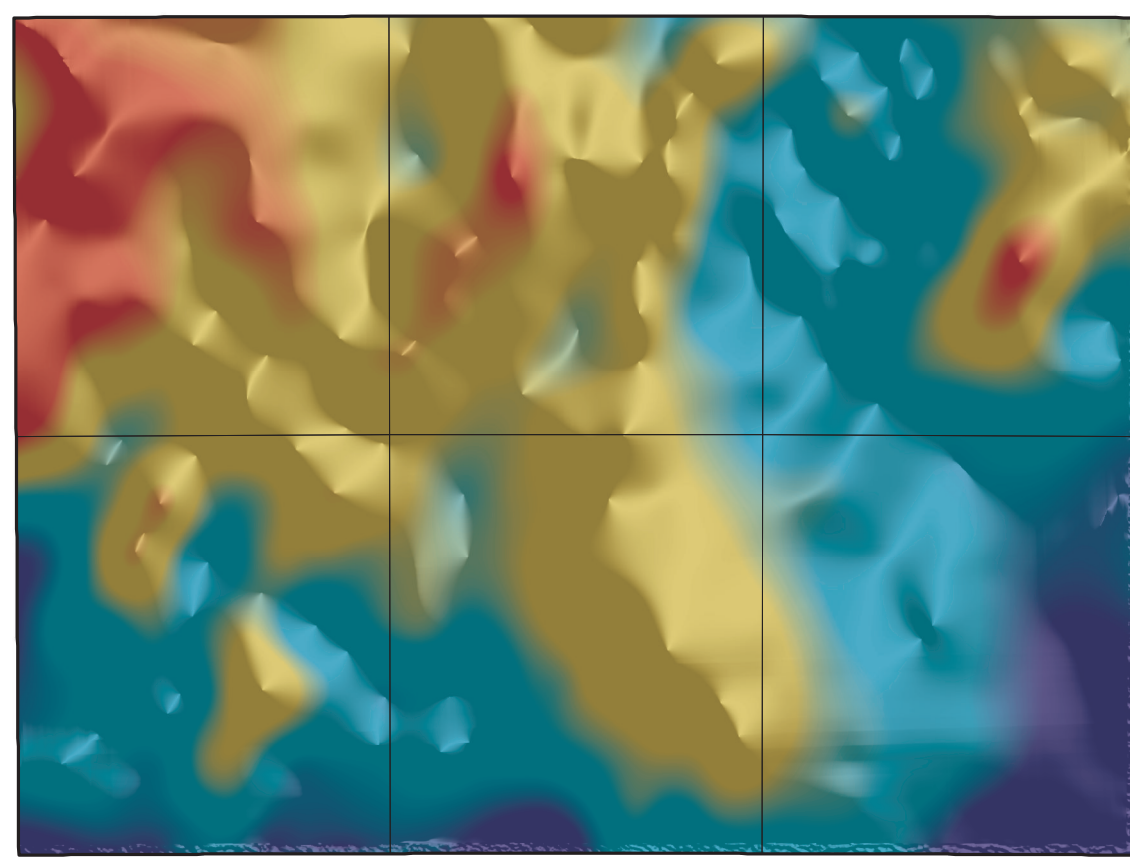
AUSTRALIA 1:250 000



REFERENCE

HOLOCENE	
Qh ₁	HOLOCENE ALLUVIAL/FLUVIAL UNIT 1: Present day Holocene alluvium, current bedrock
Qh ₂	HOLOCENE AECIAN UNIT 2: Holocene sand capping dunes in lowlands
Qh ₃	HOLOCENE LACUSTRINE/PLAYA UNIT 1: Holocene playa sediments
PLEISTOCENE-HOLOCENE	
Qh ₁ Qh ₂ Qh ₃	QUATERNARY REGOLITH/COLLUVIAL UNIT 1: Quaternary glacial-marine colluvium. Based on Q or MURLOCCOPPE
PLEISTOCENE	
Qp ₁	PLEISTOCENE GYPHRETE: Unfossiliferated Pleistocene gypsiferous
PLIOCENE-PLEISTOCENE	
TrQ ₁	PLIOCENE-PLEISTOCENE ALLUVIAL/FLUVIAL UNIT 1: Sand, clay, sub-coloured, cross-bedded, in channels, some white-silt remains, purple in places. Clay, coarse sand, green west of Lake Eyre. Fluvial and fluvio-lacustrine. Pleistocene to Quaternary
MIOCENE-PLIOCENE	
Trm ₁	CADELGA LIMESTONE: Limestone, pale, cherty, dolomitic, lacustrine
Trm ₂	DOONABA FORMATION: Sand, brick-red, plastic and homogeneous, fine to medium-grained, coarse to pebbly at base. Fluvial-lacustrine
EOCENE-MIOCENE	
Trm ₃	EOCENE-MIOCENE SLORETE UNIT 1: Regionally older siltstone, argillaceous Eocene-Miocene
TERTIARY-PLEISTOCENE	
TrQ ₂	TERTIARY-PLEISTOCENE ROCKS: Unfossiliferated Tertiary to Pleistocene rocks
PALEOCENE-EOCENE	
Trm ₄	TRIPLE FORMATION: Pyritic, carbonaceous sand, green-grey, ranges from silty to small oolites, with beds of lighter and clay. Clays are micaceous, variable and fine, broad streams
CRETACEOUS	
Km ₁	MOUNT HOWE SANDSTONE MEMBER: Sandstone, medium to coarse-grained, cross-bedded
Km ₂	WINTON FORMATION: Shale, siltstone, sandstone. Non-marine, minor coal horizons

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.

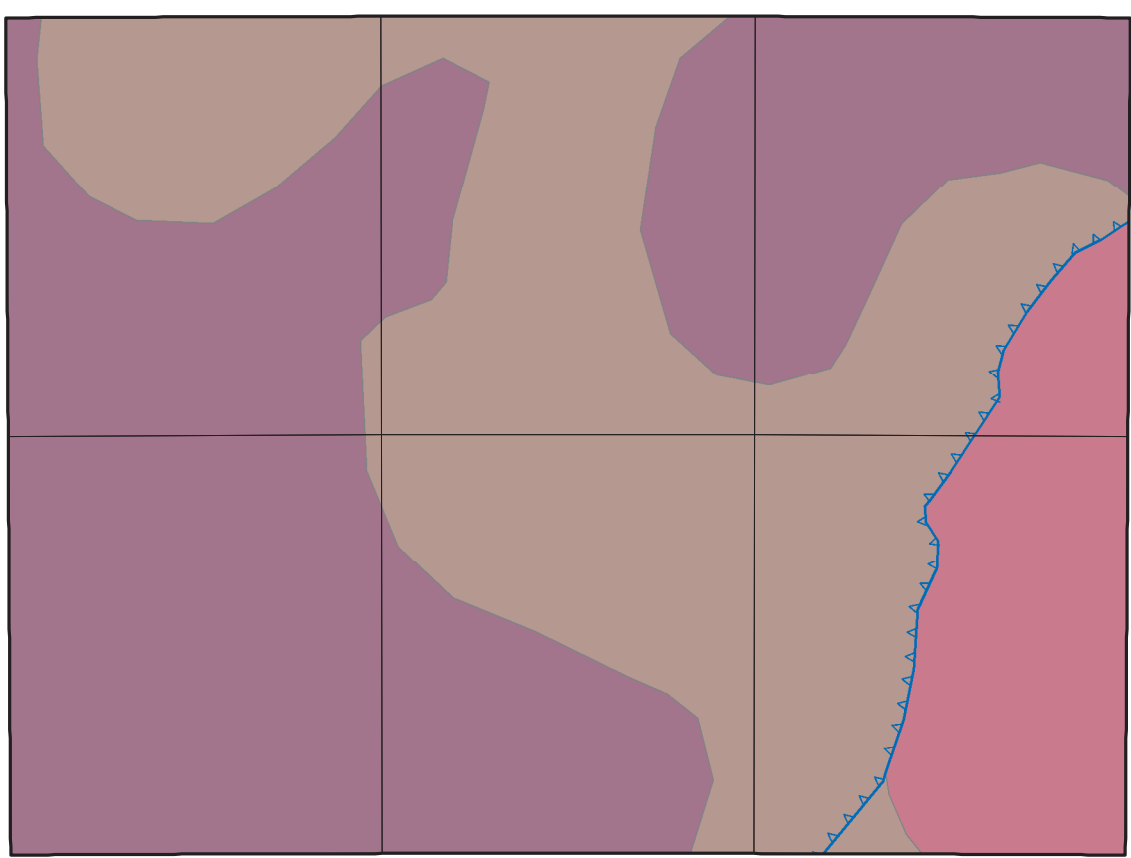
SCALE 1:1000000

nTesla

-143.331 -136.485 0 1 21.144 83.583

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

SOLID GEOLOGY INTERPRETATION



Modified from Interpreted Crystalline Basement Geology Of The Gawler Craton (Faulstich et al. 2003)
Interpreted Solid Geology Of The Gammon Promise (Burt and Bell, 2003)
Mangrove Block, Central Australia, regional geology from interpretation of aeromagnetic data (Burt and Bell, 2003). Solid Geology (South Australia) (Corney, 2006).

Solid Geology

- EO4 Cambrian-Ordovician unit 4 + Claremont Bay Dolomite, Kallaberra Formation, Pandora Formation
- EO1 Outlying Group
- N Neoproterozoic rocks

Solid Geology - Linear Structure

Fault reverse triangles upthrown side

SCALE 1:250,000

KILOMETRES 0 5 10 15 20 25

Any person purchasing this map may reproduce it for their own use or that of their staff, but not for any other purpose except with the written permission of the Chief Executive, Department for Energy and Mining SA, GPO Box 320, Adelaide, South Australia, 5001.

CROWN COPYRIGHT RESERVED
Department for Energy and Mining SA, 2020

Topographic detail based on TOPIC250K GEOIDATA (source scale 1:250 000) supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and other data is not guaranteed. Computer generated from SA GEOIDATA database (Digital data available upon request) Current version 2018 Digital

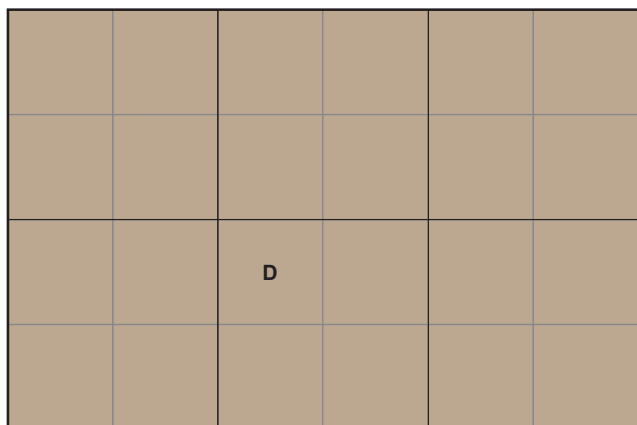
Product of Spatial Information Services. Published by and with the authority of the Department for Energy and Mining SA. Grey numbered lines indicate the 10000 metre Map Grid Transverse Mercator Projection, Geocentric Datum Australia, 2020. The lake boundaries displayed on this map may have been derived 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 A.F. Williams, B.Sc.(Hons)

R.C. Colborn, 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



Gason sheet published 1973

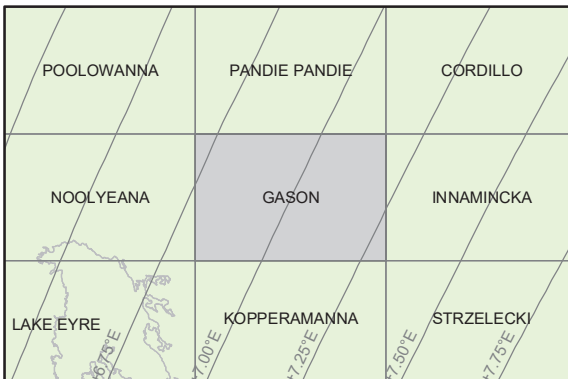
SCALE 1:250000

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

Pathraootara 6543	Gason 6643	Tatterania 6743
Cowarie 6542	Mira Mitta 6642	Perigundi 6742

INDEX TO ADJOINING 1:250 000 SHEETS
Magnetic Declination 2000
(Annual variation +1.4 minutes)



CULTURAL FEATURES

PRINCIPAL ROAD	—————
SECONDARY ROAD	—————
MINOR ROADS	—————
VEHICULAR TRACKS	—————
FENCE	—————
IDENTIFIED POINT	●
BUILDING	■
YARDS	□
LANDING GROUND	✕

HYDROGRAPHIC AND GEOMORPHIC FEATURES

LAKE	—————
INTERMITTENT LAKE	—————
MAJOR WATERCOURSE	—————
MINOR WATERCOURSE	—————
FLOODPLAIN	—————
SWAMP	—————
WATERHOLE	●
SCORE	●
WATER TANK	●
SAND RIDGE	—————

LINEAR STRUCTURES

FAULT POSITION ACCURATE	—————
-------------------------	-------

GEOLOGICAL BOUNDARY

GEOLOGICAL BOUNDARY POSITION ACCURATE	—————
GEOLOGICAL BOUNDARY POSITION APPROXIMATE	—————