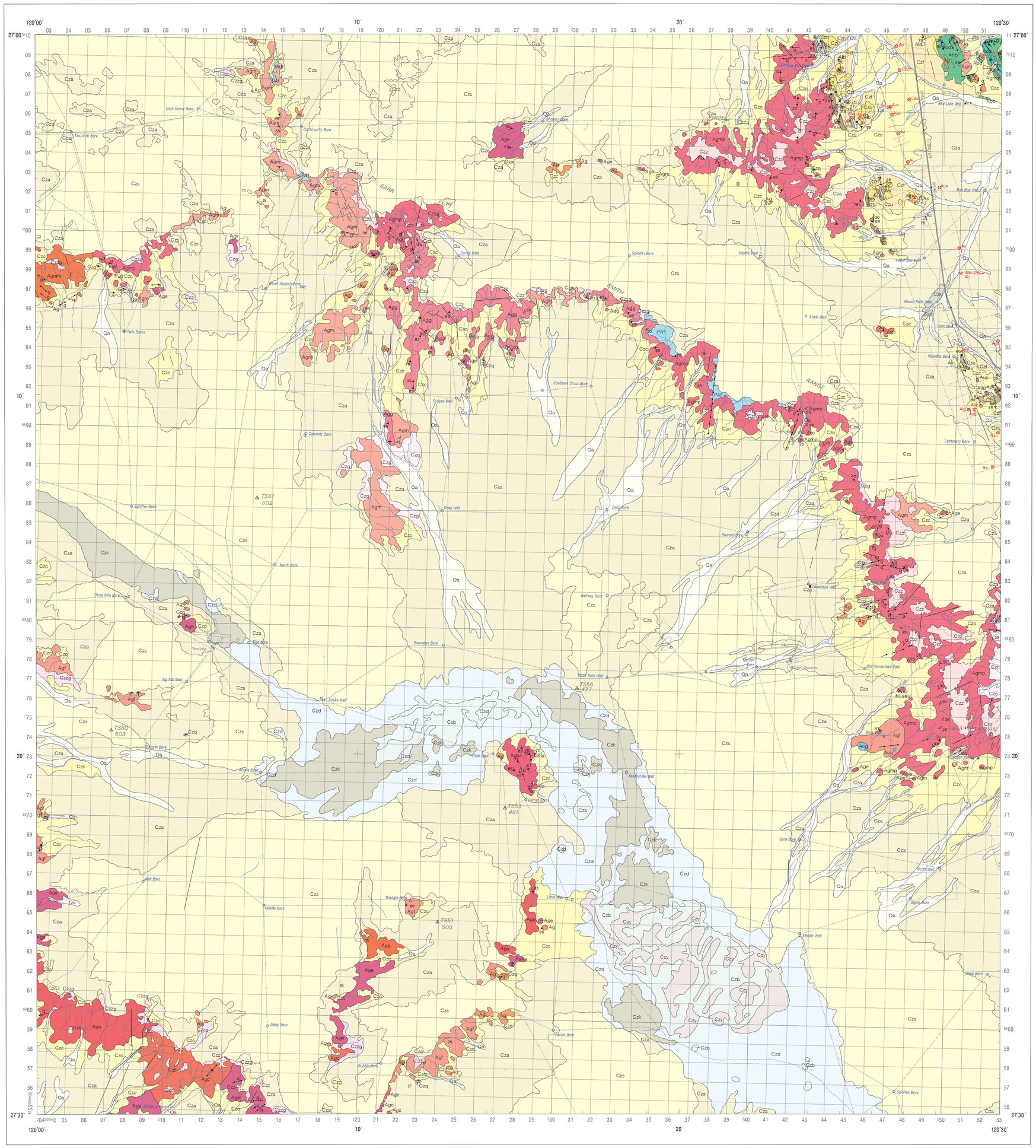
# YEELIRRIE

AUSTRALIA 1:100 000 GEOLOGICAL SERIES | WESTERN AUSTRALIA | SHEET 2943




## CAINOZOIC

**Qa**

Qa — *Clay, silt, sand and gravel in and near active stream channels; alluvial*

**Cza | Czb | Czc | Czd | Czf | Czg | Czk | Czl | Czq | Czs**

**Czu | Czy | Czz | Czzg**

Cza — *Clay, silt and sand; pebbly in places; colluvial, distal*
Czb — *Clay and dune sand, adjacent to playas (clay dominant)*
Czc — *Gravel, talus, sand; colluvial, proximal*
Czd — *Quartz and gypsum dunes with minor silt and clay adjacent to playas (dunes dominant)*
Czf — *Pebbly colluvium and alluvium derived from laterite*
Czg — *Colluvial sand and gravel derived from quartzofeldspathic rock*
Czk — *Calcrete*
Czl — *Lateritic duricrust, massive and rubbly*
Czq — *Talus and quartz-rich detritus derived from quartz veins*
Czs — *Sand plain*
Czu — *Silcrete on or derived from ultramafic rock*
Czy — *Kopi - lithified gypsum and clay in mounds and dunes*
Czz — *Silcrete over granitoid*
Czzg — *Silcrete and/or kaolinised granite*

## PERMIAN

**PAf**

PAf — *Paterson Formation: sandstone, pebbly to bouldery siltstone, conglomerate; fluviatile*

## ARCHAEAN

**g | q**

g — *Granite*
q — *Quartz, quartzolite*

**Ag | Agc | Age | Agf | Agg | Agl | Agm | Agmm | Agmp | Agp**

**Agu | Agux**

Ag — *Granitoid, unassigned*
Agc — *Coarse-grained granitoid, undivided*
Age — *Medium-grained granitoid, undivided*
Agf — *Fine-grained granitoid, undivided*
Agg — *Granodiorite*
Agl — *Leucogranite and microgranite*
Agm — *Biotite monzogranite*
Agmm — *Biotite monzogranite, medium-grained*
Agmp — *Porphyritic monzogranite*
Agp — *Porphyritic granitoid*
Agu — *Mixed coarse to fine-grained granitoid*
Agux — *Mixed coarse to fine-grained granitoid, porphyritic granitoid, minor amphibolite and gabbro*

**Ac | As | Ass**

Ac — *Chert*
As — *Metasedimentary rock, undivided*
Ass — *Sandstone and/or siltstone, metamorphosed*

**Af | Afr**

Af — *Metamorphosed felsic extrusive rocks, fine grained*
Afr — *Metarhyolite*

**Aod | Aog**

Aod — *Dolerite +/- basalt +/- gabbro*
Aog — *Gabbro, massive, equigranular or porphyritic; undivided*

**Abb | Abg**

Abb — *Metabasalt +/- metadolerite*
Abg — *Mafic and subordinate felsic volcanic rocks intercalated with minor foliated granitoid rock; metamorphosed; gneissic banding locally developed*

**Ala | Alb | Alf**

Ala — *Amphibolite*
Alb — *Clay rock, massive to schistose, quartz absent or minor*
Alf — *Quartz-feldspar schist +/- muscovite, schistose to massive quartz-clay rock +/- muscovite*

**Aup**

Aup — *Peridotite*

**Aw**

Aw — *Weathered Archaean rock of uncertain origin*

*Geological boundary*
*Marker bed*
*Fault, position accurate*
*Dyke or vein*
*Minor fold showing plunge* (40)
*Strike and dip of strata* (25)
*Vertical strata*
*Trend-line*
*Strike and dip of joint* (50)
*Vertical joint*
*Strike and dip of foliation* (50)
*Vertical foliation*
*Strike and dip of cleavage* (60)
*Vertical cleavage*
*Plunge of crenulation* (35)
*Plunge of mineral elongation* (20)
*Strike and dip of platy alignment* (30)
*Vertical platy alignment*
*Lineament*
*Mine; may be abandoned*
*Mineral exploration drill hole data* (Abb)

Aod-*Dolerite*
Ala -*Amphibolite*
Alb -*Chlorite*
As -*Sediment*
Ash-*Shale*
Ass-*Sandstone*
Au -*Ultramafic rock*
Aup-*Serpentinised peridotite*
Aut-*Tremolite-talc-chlorite schist*
Aus-*Serpentine-talc rock*
Aut-*Magnetite-talc-chlorite schist*
Czu-*Silcrete over ultramafic rock*

*Highway*
*Minor road*
*Vehicle track*
*Traverse line*
*Fence*
*Landing ground*
*Building*
*Yard*
*River or creek*
*Waterhole* (WH)
*Bore*
*Well*
*Trigonometrical station*
*Elevation in metres, approximate* (310)

## MAP LOCALITY

## INDEX TO ADJOINING SHEETS

1:250 000 maps shown in blue

| | | | | |
|---|---|---|---|---|
| GLENGARRY 2546 | WOODLOOGOO 2746 | MOUNT WHITE 2846 | CUNYU 2946 | MILLROSE 3046 | BALLIMORE 3146 |
| GLENGARRY | | | WILUNA | |
| SG50-12 SARSAPARILLA 2644 | YANGANOO 2744 | BERKENHEIM 2844 | WILUNA 2944 | SG51-09 LAKE VIOLET 3044 | SANDALWOOD 3144 |
| NOKWANURA 2642 | YOUNG DOWNS 2742 | MONTARGO 2842 | KEELMANE 2942 | MOUNT KEITH 3042 | MANGAWANDI 3142 |
| SANDSTONE | | | SIR SAMUEL | |
| SG50-16 WOODLEY 2542 | SANDSTONE 2742 | LAKE MASON 2842 | DEPOT SPRINGS 2942 | SG51-13 MIRAMUL 3042 | DAIRLOT 3142 |

## UNIVERSAL GRID REFERENCE

GRID ZONE DESIGNATION 51J

100 000 METRE SQUARE IDENTIFICATION

IGNORE the SMALLER figures of any grid number; these are for finding the full co-ordinates. Use ONLY the LARGER figures of the grid number, for example:

204000

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METRES:

SAMPLE POINT: (Albion Downs)

1 Read letters identifying 100 000 metres square in which the point lies:
2 Locate first vertical grid line to LEFT of point and read LARGE figures labelling the line either in the top or bottom margin, or on the line itself:
3 Estimate tenths from grid line to point:
4 Locate first HORIZONTAL grid line BELOW point and read LARGE figures labelling the line in either the left or right margin, or on the line itself:
5 Estimate tenths from grid line to point:

SAMPLE REFERENCE: TK 417708

If reporting beyond 18° in any direction, prefix Grid Zone Designation, as: 51JTK417708

Grey numbered lines are 1000 metre intervals of the Australian Map Grid, Zone 51
Grid values are shown in full only at the south west corner of the map.

## RELIABILITY DIAGRAM

A

A - *Detailed reconnaissance; numerous traverses and airphoto interpretation*

GN
TN MN
Grid/Magnetic angle -0.46°
Average Grid Convergence -1.26°

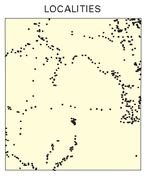
Magnetic north is correct for 1995 and moves easterly by 0.1° per year

SCALE 1:100 000

1 0 1 2 3 4 5 6 7 8 9 10
Kilometres

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
Latitude of Origin: 0° Longitude of Origin: 123°
Datum AGD66 AMG grid zone 51

## FIELD OBSERVATION LOCALITIES



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### DIGITAL DATA

Map data are stored digitally in both Intergraph design file format (IGDS) and topologically structured ARC/INFO Rev7.0 export format. These formats may be suitable for transfer to other digital systems. Detailed site data are stored in the Oracle NGMA Field Database. Map information can be purchased from AGSO as hardcopy plots and as digital datasets. Information on formats, release conditions, and costs are available from AGSO Sales Centre

WARNING: Colours are not waterproof and will also fade with prolonged exposure to light

Geology by D.CHAMPION, A.J.STEWART, 1995, AGSO.
Cartography by K.Ambrose, V.Ashby, AGSO.

Produced by Spatial Information and Mapping Services, AGSO, using ARC/INFO software
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Issued under the authority of the Minister for Primary Industries and Energy.

Destination information for 1995.0 supplied by Geomagnetism Section, AGSO.
Topographic information shown on this map has been derived from digital data supplied by the Geological Survey of Western Australia (GSWA), Perth, WA
Topographic base information ® AUSLIG 1995.

It is recommended that this map be referred to as:
Champion, D. and Stewart, A.J., 1997
Yeelirrie Preliminary Edition (1:100 000 scale geological map)
Australian Geological Survey Organisation, Canberra

Copies of this map may be obtained from:
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NGMA
PRODUCT OF THE NATIONAL GEOSCIENCE MAPPING ACCORD

# YEELIRRIE

GEOLOGY

SHEET 2943

PRELIMINARY EDITION
VERSION 1
SUBJECT TO REVISION

July 1998