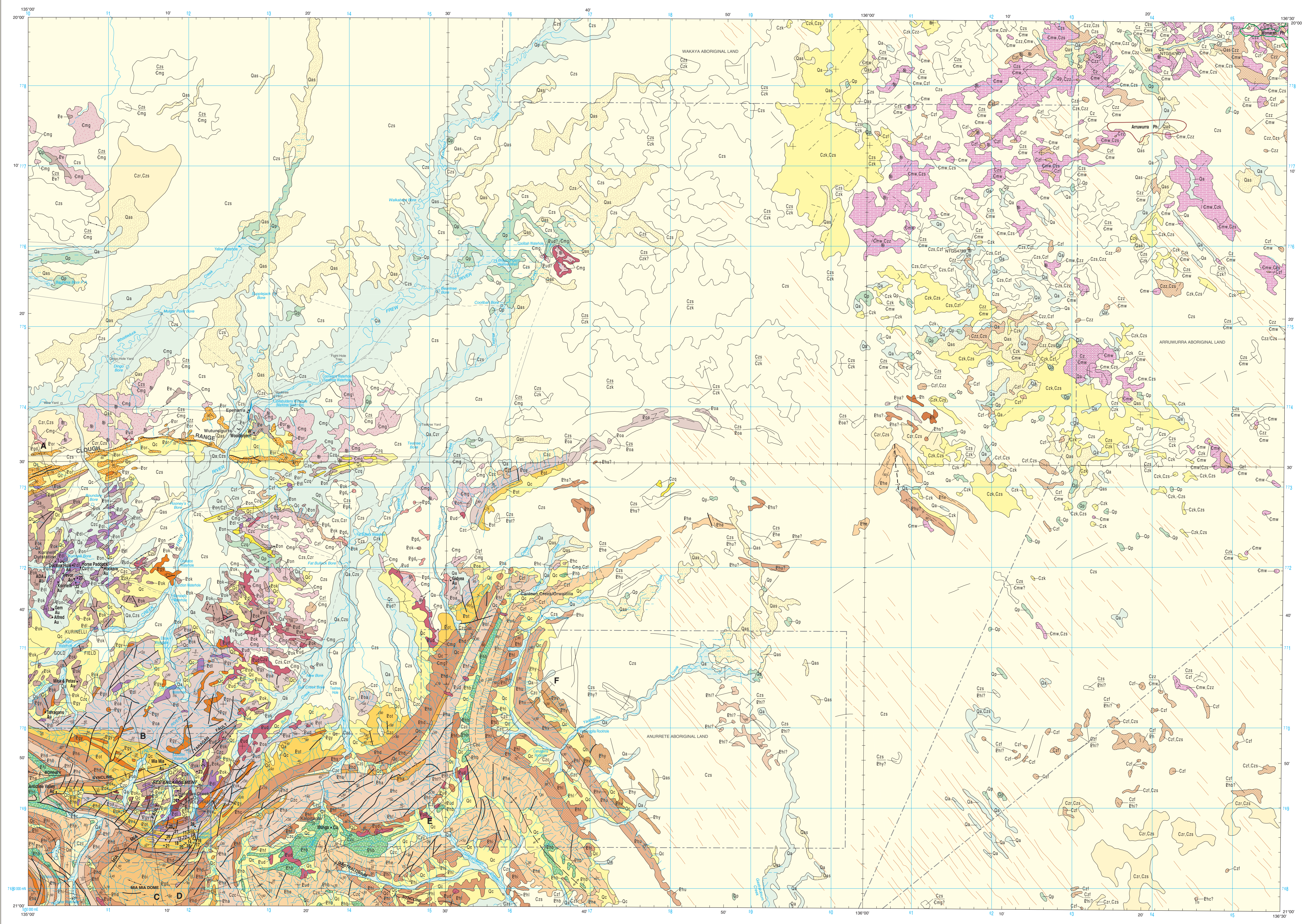
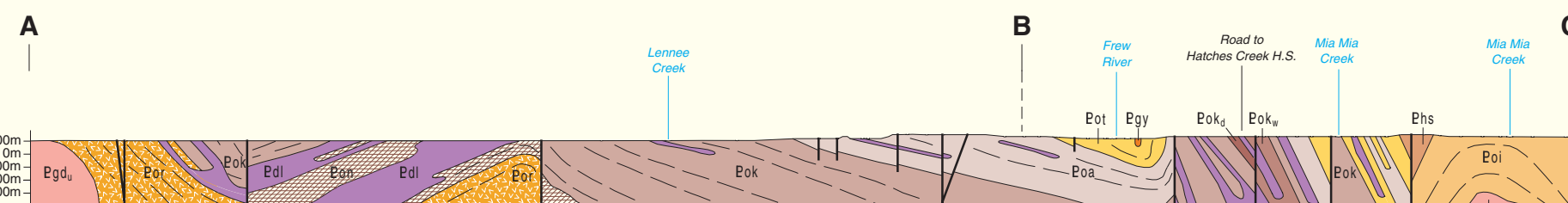
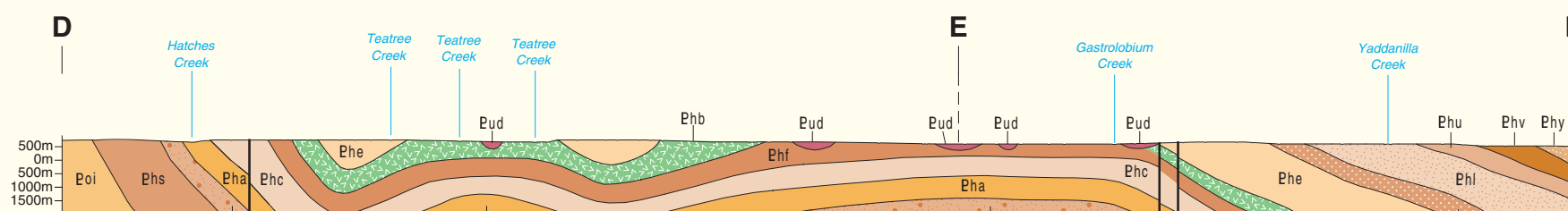
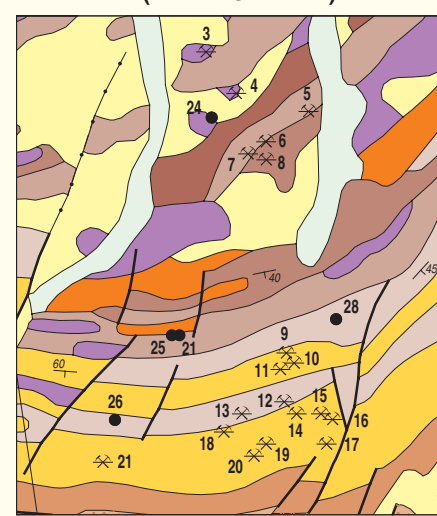


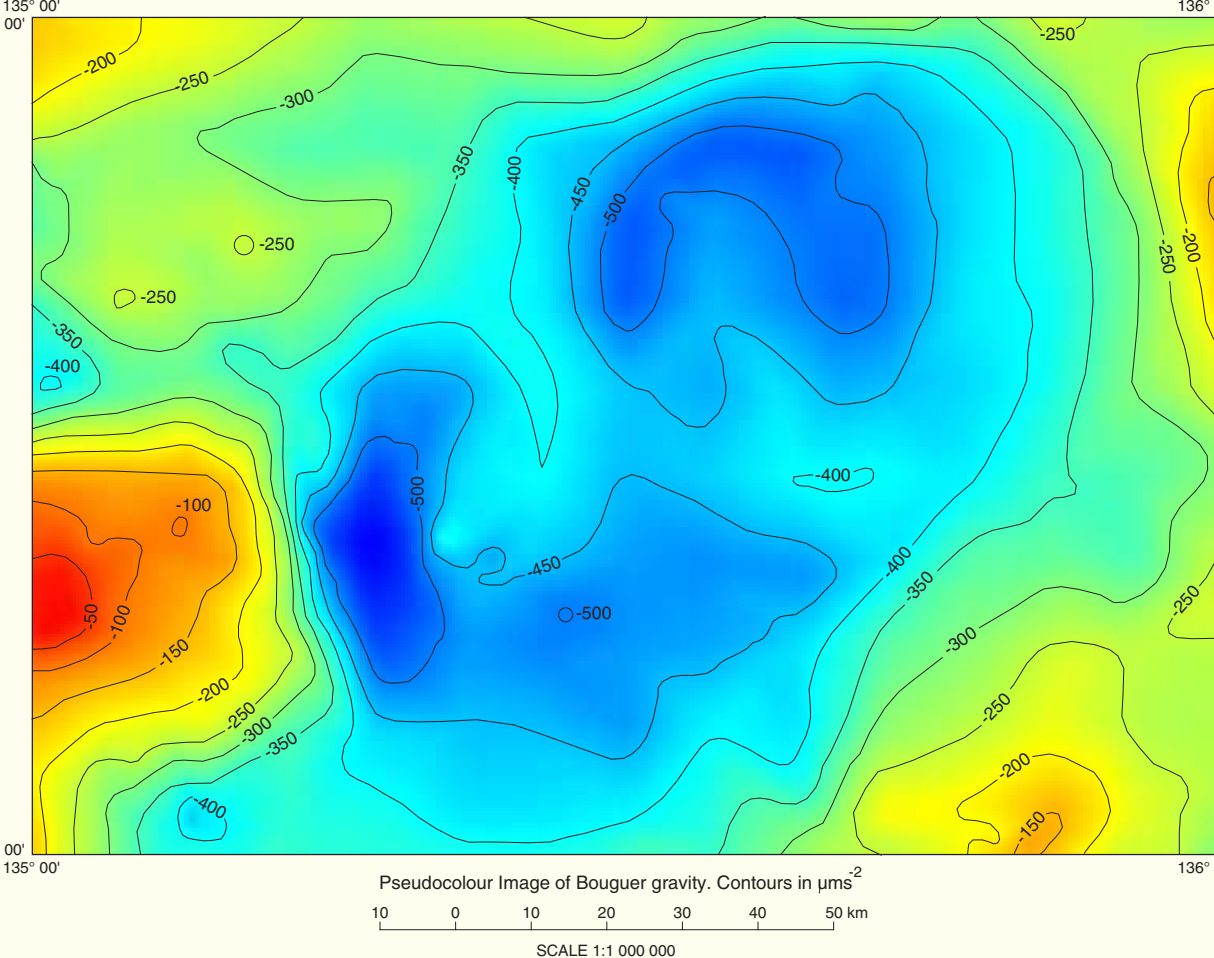


SCALE 1:250 000

Projection: Universal Transverse Mercator, Zone 53
Grid Coordinates: Map Grid of Australia 1984 (MGA84)
Horizontal Datum: Geocentric Datum of Australia 1984 (GDA84)SCHEMATIC SECTION ABC
Scale: V/H = 1SCHEMATIC SECTION DEF
Scale: V/H = 1HATCHES CREEK TUNGSTEN FIELD
(ENLARGEMENT)

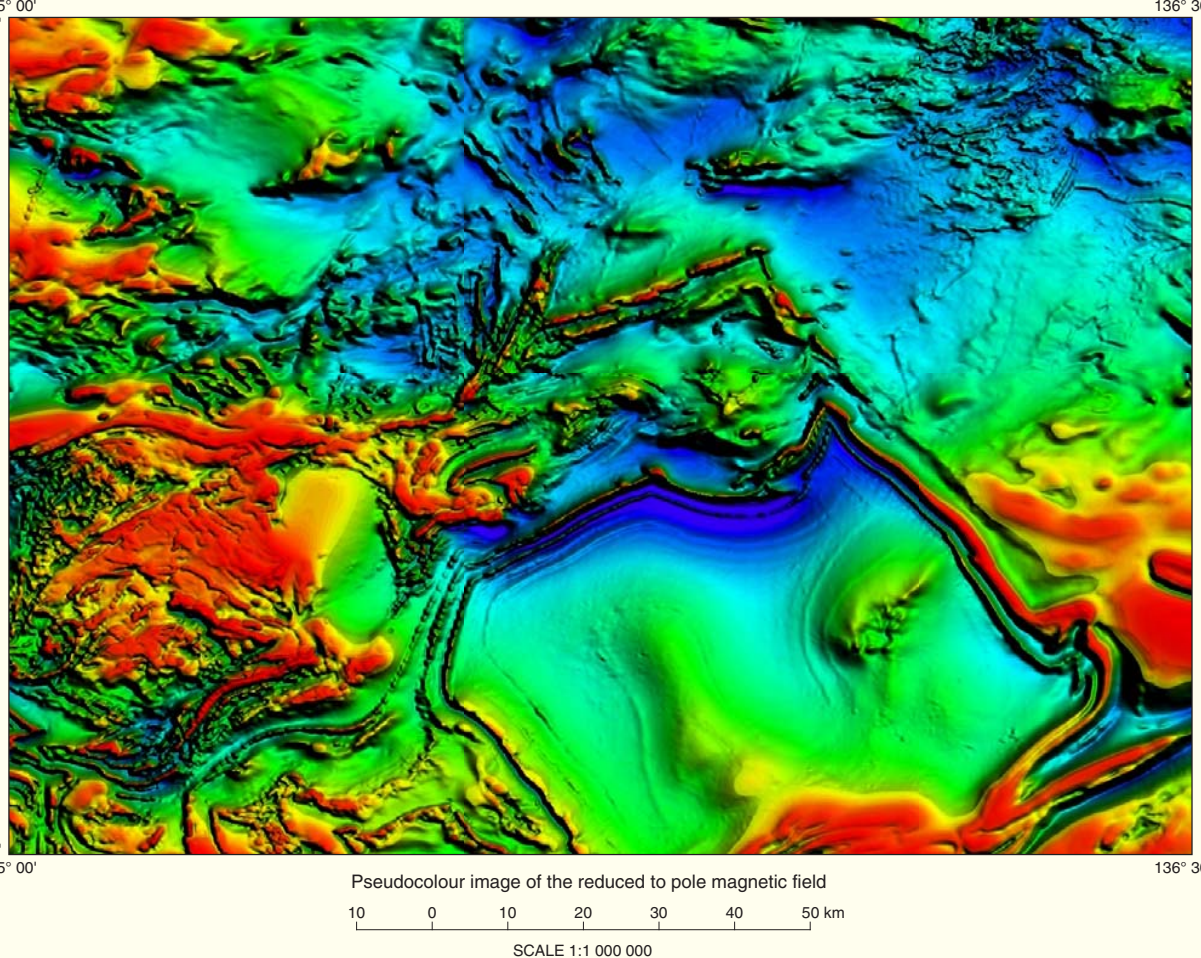
SCALE 1:125 000

GRAVITY IMAGE



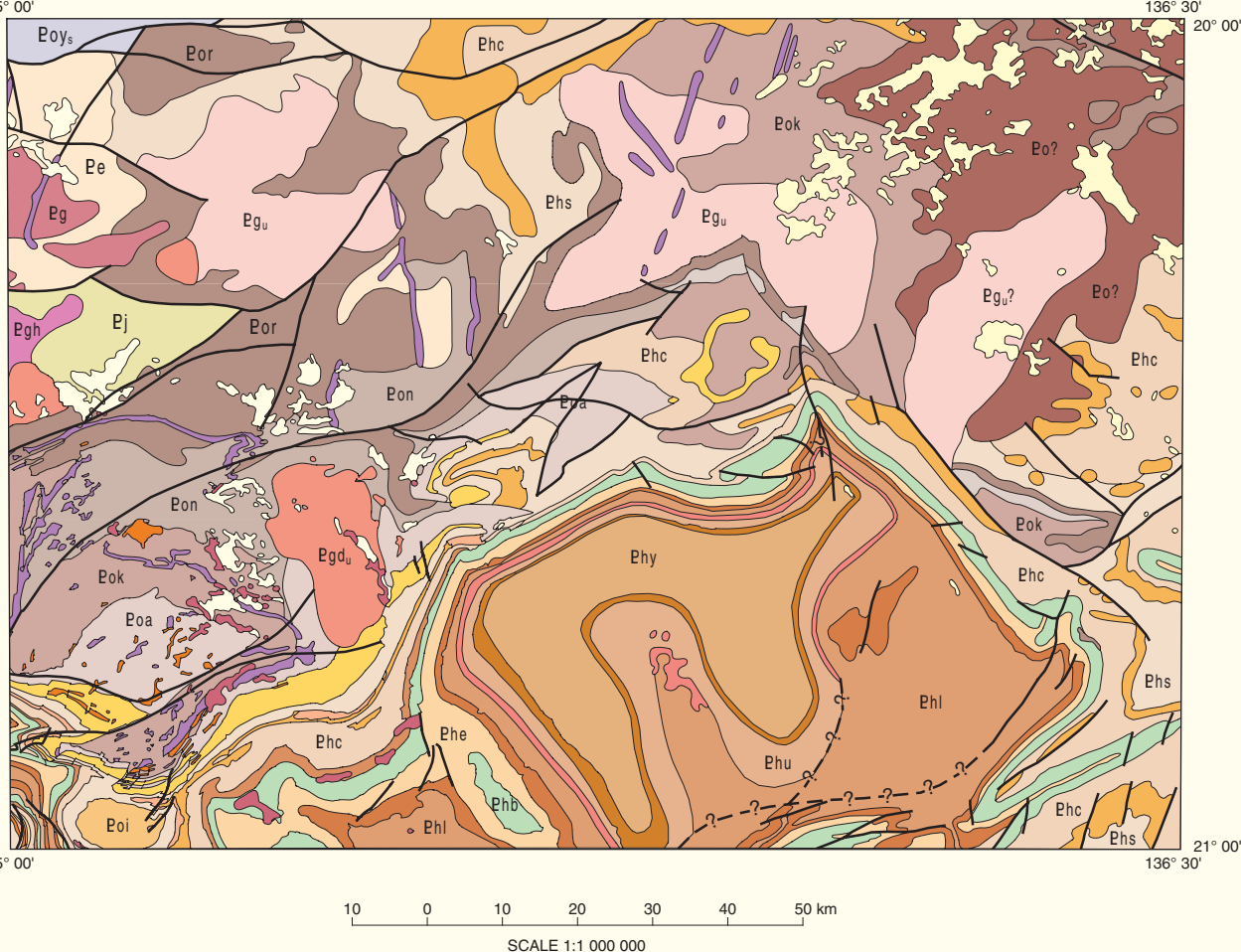
Pseudocolour image of Bouguer gravity. Contours in mgals

MAGNETIC IMAGE



Pseudocolour image of the reduced to pole magnetic field

INTERPRETED GEOLOGY



BARADIDGEE GROUP
Unbedded sandstone
Treasure Volcanics
Tangan Sandstone
Kunell Sandstone
Roomeys Formation
Eggenra Volcanics
Woodgerie beds
Jurala Formation

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Unbedded sandstone
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DEVILS SUITE
Unbedded sandstone
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Tangan Sandstone
Kunell Sandstone
Roomeys Formation
Eggenra Volcanics
Woodgerie beds
Jurala Formation

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GEOLOGICAL LEGEND

- Geological boundary
Unconformity (legend only)
Unconformity (doubtful, legend only)
Geological cross-section
Quartz vein
Lineament
Joint (interpreted from aerial photography)
Trend line
Macrofossil locality; reference number
Limit of exploration activity; extent of prospect area
- Mineral Deposits**
Minor mineral occurrence (mine name and minerals)
Wanarah phosphate deposit: 23% P₂O₅ isograd
Anururna phosphate deposit: 23% P₂O₅ isograd
Abandoned mine, or mine not being worked
- Bedding**
Strike and dip of strata
Vertical strata
Horizontal strata
Strike and dip of strata, facing not known
Prevailing strike and dip of platy alignment
Vertical cleavage
Strike and dip of cleavage

TOPOGRAPHIC LEGEND

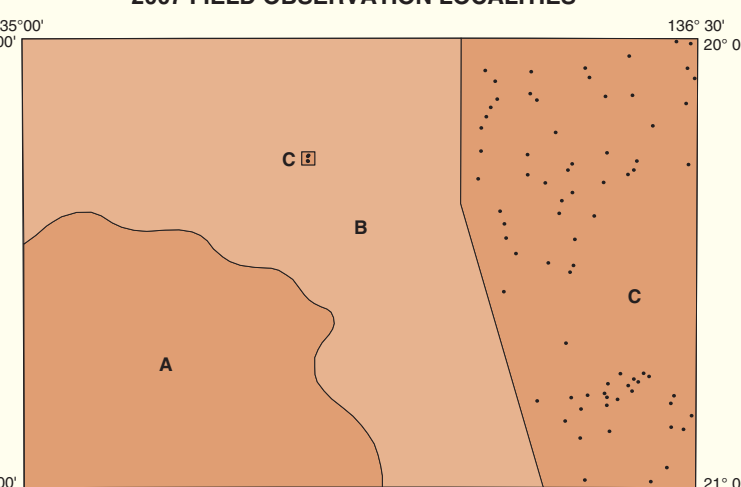
- Sand ridge
Secondary road, unsealed
Vehicular track
Landing ground
Homestead
Building
Yard
Fence
Mountain, hill
Bore
Water tank
River, creek
Waterhole, rockhole
Land subject to inundation
Aboriginal Land boundary

MAP LOCALITY

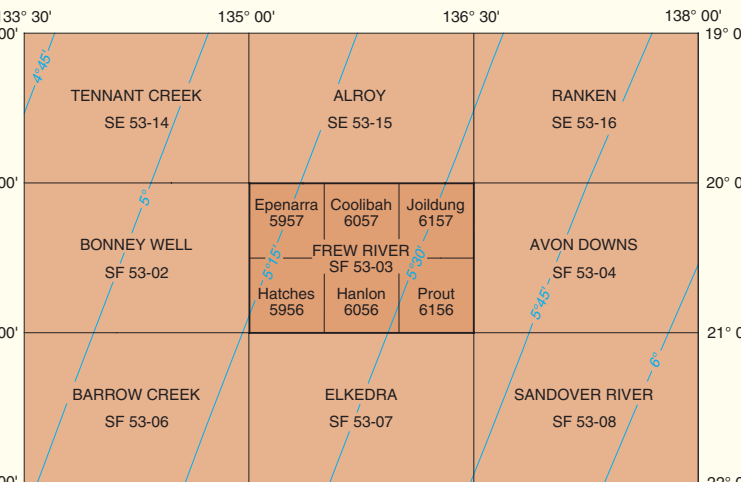


MINERAL OCCURRENCE INDEX

- 1 Denapay Choice
- 2 Crystal
- 3 Pioneer
- 4 Endurance
- 5 Rocky Kate
- 6 Black Diamond
- 7 Bonanza
- 8 Green Diamond group
- 9 Treasure
- 10 Hidden Treasure
- 11 Inlet Treasure
- 12 Inlet Treasure
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RELIABILITY DIAGRAM AND
2007 FIELD OBSERVATION LOCALITIESA: Detailed mapping and aliphatic interpretation (1981-1984)
B: Helicopter-supported outcrop mapping (1981-1984)
C: Helicopter-supported outcrop mapping (2007)

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MAGNETIC DECLINATION

Blue lines show magnetic declination for epoch 1985 derived from 1985
AGRF model. Annual change is 10.8° per year westerly at the centre of the
map. Information is current for 1987

Geology: 2007 PD Kruse, RC Maier, NTGS
Compiled: 2008 PD Kruse, NTGS
Geographical interpretation: 2008 N. Corneilissen, NTGS
Design: 2009 N.J. Saunders, NTGS
Digital cartography: 2009 N.J. Saunders, NTGS
First Edition mapping: 1985 DH Blake, IP Swain, BMR (now GA)
Second Edition mapping: 1984 N. Corneilissen, AAI Waikiki, NTGS

The Northern Territory Government does not warrant this map as definitive, nor free from error and does not accept liability for the loss caused by, or arising from, reliance upon information provided herein. The information presented on this map is current to 4 January 2010. Future modifications may be made as new information becomes available.

Produced by, and plot on demand created by the Northern Territory Geological Survey, Department of Resources, Darwin, Australia. Issued under the authority of the Minister for Resources, the Honorable Konstantinos Kori Vasilakis, M.L.A.

Base map compiled by NTGS from 1:250 000-scale topographic data and LANDSAT 7 satellite imagery supplied by Geoscience Australia, Department of Resources, Energy and Tourism. Pedestrian infrastructure data supplied by Rangelands Management Branch, Department of Natural Resources, Environment, The Arts and Sport (NTERAS), Northern Territory Government, Darwin.

This map is accompanied by a text publication: Kruse PD, Maier RC, Khan M and Dunster JN, 2010. *Wahlow-Brumette Downs-Alroy-Frew River, Northern Territory (Second Edition)*. 1:250 000 geological map series explanatory notes, SE 53-07, SE 53-11, SE 53-15, SF 53-03.

It is recommended that this map be referred to as: Kruse PD and Maier RC, 2010. *Frew River, Northern Territory (Second Edition revised)*. 1:250 000 geological map series, SF 53-03. Northern Territory Geological Survey, Darwin.

Northern Territory
Government

Department of Resources

NORTHERN TERRITORY GEOLOGICAL SURVEY

Ian Scrimgeour, Director

FREW RIVER

1:250 000 GEOLOGICAL SERIES

SHEET SF 53-03

SECOND EDITION REVISED 2010

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WARNING: Colours will fade with prolonged exposure to light