MINERAL SITES

MINERALIZATION STYLE

- Kimberlite, lamproite, and carbonatite
- Porphyry, pegmatite, greisen, and skarn
- Orthomagmatic mafic and ultramafic
- Stratabound volcanic and sedimentary
- Stratabound sedimentary and/or sedimentary bonded iron formation
- Regolith hosted
- Undivided

COMMODITY GROUP

- Precious metal
- Steel alloy metal
- Specialty metal
- Base metal
- Iron
- Energy
- Industrial mineral
- Construction material

All precious metal sites are gold unless otherwise indicated

COMMODITY

Aggregate (undifferentiated)	Agg
Cobnite, cobrite	CoS
Clay, fireclay	CyFi
Chromium	Cr
Cobalt	Co
Copper	Cu
Gold	Au
Gravel	Gvl
Ilmenite	Ilm
Iron	Fe
Lead	Pb
Limestone	Lst
Magnesite	$MgCO_3$
Magnetite	Mag
Nickel	Ni
Palladium	Pd
Platinum	Pt
Platinum Group Elements	PGE
Pyrophyllite	Prl
Sand (undifferentiated)	Sd
Silver	Ag
Talc	Sm
Titanium	Ti
Tungsten	W
Uranium	U
Vanadium	V
Zinc	Zn

SITE NAME

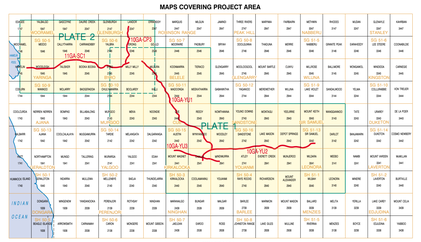
Mine, deposit, prospect, or occurrence ..... Mt Keith

Mineralization sites on this map have been extracted from GSWA's MINDEX database. Mineralization sites are shown as undifferentiated dots. The labels of site numbers, site locations, site status, mineralization, and commodities can be obtained from the MINDEX database, accessed at <www.dmp.wa.gov.au/minedex>.

SYMBOLS

- Fault or shear
  - exposed
  - Fold, exposed, interpreted from aeromagnetic data
- Fold axial trace, exposed
  - anticline, exposed
  - synciine, exposed
  - overturned anticline, exposed
  - overturned synciine, exposed
  - isoform, exposed
- Trend of bedding
- Trend of gneissic foliation
- Foliation, unspecified, trend of foliation
- Trend of foliation or gneissic bonding
- Aizlinite or aizlitnh fracture lineament
- Aeromagnetic lineament
  - unspecified
  - fracture pattern
- Meteorite impact structure
- Seismic line, with common depth point (CDP) symbol — 7000
- Highway with national route marker
- Major road
- Railway
- Airfield
- Townsite, less than 1000
- Homestead
- Aboriginal community — Leonora, Tarmoola, Pila Watjan Community
- Watercourse
- Lake

MAPS COVERING PROJECT AREA



1:100 000 maps shown in black
10GA map area shown in blue

Search for current GSWA map products online at <www.dmp.wa.gov.au/GSWApublications>

DATA DIRECTORY

Theme	Data Currency	Organization*
Geology *	2012	Geological Survey of Western Australia, Department of Mines and Petroleum
Mineral sites *	JAN 2013	Geological Survey of Western Australia, Department of Mines and Petroleum
Structural data	JAN 2013	Geological Survey of Western Australia, Department of Mines and Petroleum
Horizontal control	JAN 2013	Landgate
Topographic nomenclature	2012	Landgate
Topography	2012	Landgate

* DMP data can be viewed interactively via GeoVIEW.WA <www.dmp.wa.gov.au/geoview>, and related datasets can be downloaded from the GSWA Data and Software Centre <www.dmp.wa.gov.au/dasc>

† WA State Government unless otherwise indicated

Compiled by TJ Ivanic, I Zibra, MP Doublier, and S Wyche 2013

Geology by — refer to individual 1:100 000 and 1:250 000 map sheets

Cartography by P Taylor

Edited by SM White

Published by Geological Survey of Western Australia

This map is published in digital format (PDF) and is available online at <www.dmp.wa.gov.au/GSWApublications>.

Copies are available from:
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Phone: +61 8 9222 3459 Fax: +61 8 9222 3444
Website: www.dmp.wa.gov.au/gswa Email: geological.survey@dmp.wa.gov.au

The recommended reference for this map is:
Ivanic, TJ, Zibra, I, Doublier, MP, and Wyche, S, (compilers) 2013, Geological Interpretation of the northwest Yilgarn Craton, *in* Yilgarn and Southern Carnarvon seismic and magnetotelluric (MT) workshop compiled by S Wyche, TJ Ivanic and I Zibra: Geological Survey of Western Australia, Record 2013/6, Plate 1A.

ROYALTIES FOR REGIONS
EXPLORATION INCENTIVE SCHEME

Australian Government
Geoscience Australia

Government of Western Australia
Department of Mines and Petroleum

HON. BILL MARMION, MLA
MINISTER FOR MINES AND PETROLEUM

Geological Survey of Western Australia

RICK ROGERSON
EXECUTIVE DIRECTOR

SCALE 1:500 000

5000 Metres 0 10 20 30 40 50 Kilometres

UNIVERSAL TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994
VERTICAL DATUM: AUSTRALIAN HEIGHT DATUM

Grid lines indicate 20/30 metre interval of the Map Grid Australia Zones 50 and 51

The Map Grid Australia (MGA) is based on the Geocentric Datum of Australia 1994 (GDA94)
GDA94 positions are compatible within one metre of the datum WGS84 positions

GDA

GEOLOGICAL SURVEY OF WESTERN AUSTRALIA

RECORD 2013/6 PLATE 1A

GEOLOGICAL INTERPRETATION OF THE NORTHWEST YILGARN CRATON

November 2013

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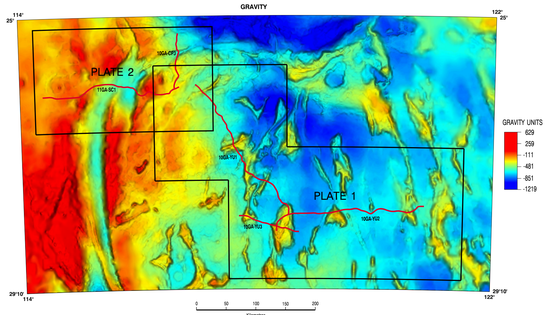
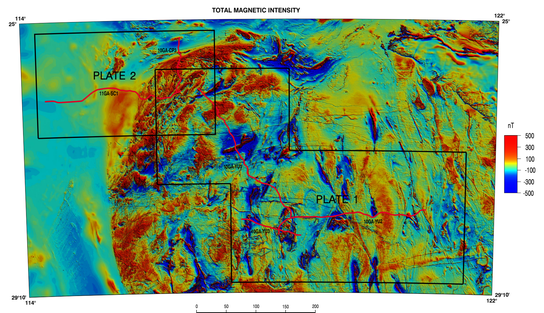
GRAVITY



TOTAL MAGNETIC INTENSITY