WESTERN AUSTRALIA
MINERAL DEPOSITS AND PETROLEUM FIELDS
2007

REFERENCE

Age (Ma)

0							
5							
100	PHANEROZOIC	Alluvial, shoreline, and eolian deposits Marine limestone, sandstone, and valley-fill deposits					
500		Marine and continental sedimentary rocks					
1000	PROTEROZOIC	Marine and continental sedimentary and volcanic rocks	Sandstone	Metavolcanic rocks	Basic and ultrabasic intrusive rocks	Metasedimentary rocks	Granite and gneiss
2000			Sandstone and shale	Basalt	Metamorphosed basic and ultrabasic volcanic and intrusive rocks	Metasedimentary rocks	Granite and gneiss
3000	ARCHEAN		Iron formation and shale	Basalt, dacite, and sandstone	Metamorphosed basic and ultrabasic volcanic and intrusive rocks	Metamorphosed sedimentary and acid volcanic rocks	Granite and gneiss
3700							

Gneiss

Major road
Formed road
Track
Railway
Proposed railway
Gas pipeline
Proposed gas pipeline
Oil pipeline
City — BUNBURY
Townsite
population 10000–15000 — BUSSELTON
1000–10000 — PINJARRA
less than 1000 — Dardanup
Homestead — Curbine
Locality — Overlander Roadhouse
Watercourse, predominantly ephemeral
Paleodrainage, inactive or rarely active
Bathymetric contour, metres — 200

PRECIOUS MINERAL
Aga Agate
Brle Beryl, emerald
Clc Chalcedony
Chrt Chert
Chrp Chrysoprase
Dmd Diamond
Jasp Jasper
Mal Malachite
Opl Opal
Qtza Quartz, amethyst
Qtzr Quartz, rose
Teye Tiger eye
Tur Tourmaline
Vrs Variscite
Zeb Zebra rock

PRECIOUS METAL
Au unless otherwise indicated
Au Gold
Pd Palladium
Pt Platinum
PGE Platinum group elements
Rh Rhodium
Ag Silver

STEEL INDUSTRY METAL
Cr Chromium
Co Cobalt
Mn Manganese
Mo Molybdenum
Ni Nickel
Ti Titanium
W Tungsten
V Vanadium

SPECIALITY METAL
HM unless otherwise indicated
Bi Bismuth
HM Heavy mineral sands (Ti–Zr)
Fe Iron
Li Lithium
Nb Niobium
REO Rare earth oxides
Ta Tantalum
Sn Tin

BASE METALS
Sb Antimony
Cu Copper
Pb Lead
Zn Zinc

IRON
Fe unless otherwise indicated
Fe Iron
Mag Magnetite

ALUMINIUM
Bx unless otherwise indicated
Al Alumina
Bx Bauxite

ENERGY
Oil unless otherwise indicated
Cbl Coal
Cbr Coal, brown
U Uranium
Gas
Oil
Oil and gas

INDUSTRIAL MINERAL
Alu Alunite
And Andalusite
Asbr Asbestos, crocidolite
Atta Attapulgite
Brt Barite
Bent Bentonite
Chrt Chert
Cybk Clay, brick
Cy Clay, undivided
Diat Diatomite
Dlt Dolerite
Dol Dolomite
Fel Feldspar
Fl Fluorite
Grt Garnet
Glt Glauconite
Gran Granite
Gr Graphite
Gp Gypsum
Hem Hematite, pigment
Kln Kaolin
Lsd Limesand
Lst Limestone
Mgs Magnesite
Marb Marble
Mica Mica
Och Ochre
Osto Ornamental stone
Peat Peat
Phos Phosphate
Qtz Quartz, undivided
Qtze Quartzite
Salt Salt
Sdst Sandstone
Spn Saponite
Sh Shale
Slad Silica sand
Si Silicon
Spon Spongolite
St Staurolite
S Sulfur
Tlc Talc
Vrm Vermiculite

Mine operating or under development — Gunpowt, Jubilee, Gindalbie
Deposit or closed mine
Historic mine
Refinery or smelter

Fault *
Normal fault; tick on downthrown side *
Thrust; teeth on upthrown side *
Thrust reactivated as normal fault *
Horizontal relative displacement *

* Broken lines indicate extrapolation beneath younger rocks

SUMBA
TIMOR
EAST TIMOR
JOINT PETROLEUM DEVELOPMENT AREA
TERRITORY OF ASHMORE AND CARTIER ISLANDS
INDONESIA
AUSTRALIA
COMMONWEALTH ADJACENT AREAS BOUNDARY
TIMOR SEA
JOSEPH BONAPARTE GULF
INDIAN OCEAN
SHELF
NORTH WEST
BUCCANEER ARCHIPELAGO
BONAPARTE ARCHIPELAGO
KING SOUND
BROOME
PORT HEDLAND
DAMPIER
ONSLOW
EXMOUTH
NORTH WEST CAPE
CARNARVON
GERALDTON
GREAT SANDY DESERT
GIBSON DESERT
LITTLE SANDY DESERT
GREAT VICTORIA DESERT
NULLARBOR PLAIN
GREAT AUSTRALIAN BIGHT
SOUTHERN OCEAN
NORTHERN TERRITORY
SOUTH AUSTRALIA
Tropic of Capricorn
23°26'30"

DATA DIRECTORY

Theme	Data Source	Data Currency	Agency
Geology	GSWA	1998	Dept of Industry and Resources
Mines and deposits	MINEDEX*	AUG 2006	Dept of Industry and Resources
Petroleum fields, developed and undeveloped	WAPIMS*	AUG 2006	Dept of Industry and Resources
Topography	Landgate	2006	Landgate
Topographic nomenclature	GEONOMA	2007	Landgate

* GSWA and DoIR databases can be viewed online (www.doir.wa.gov.au/aboutus/geoview_launch.asp) or can be downloaded from the GSWA Data and Software Centre (www.doir.wa.gov.au/GSWA/downloadcentre)

Compiled by R. W. Cooper, P. B. Abeysinghe, and D. J. Flint 2007

Edited by G. Loan and N. Tetlow

Cartography by A. K. Jones, H. Welter, and B. Williams

Only selected mines and deposits are labelled. Construction material mines and deposits are not included. Refer to Western Australia atlas of mineral deposits and petroleum fields 2007 for more detail. For up-to-date information access MINEDEX, WAPIMS, and GeoVIEW.WA at www.doir.wa.gov.au/onlinedatabases

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Geological Survey of Western Australia

TIM GRIFFIN
EXECUTIVE DIRECTOR

SCALE 1:2 500 000

0 100 200 300 400
KILOMETRES

ALBERS EQUAL AREA PROJECTION WITH CENTRAL MERIDIAN 121°00' AND STANDARD PARALLELS 17°30' AND 31°30'
HORIZONTAL DATUM: GEOCENTRIC DATUM OF AUSTRALIA 1994 (GDA 94)

GDA

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

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