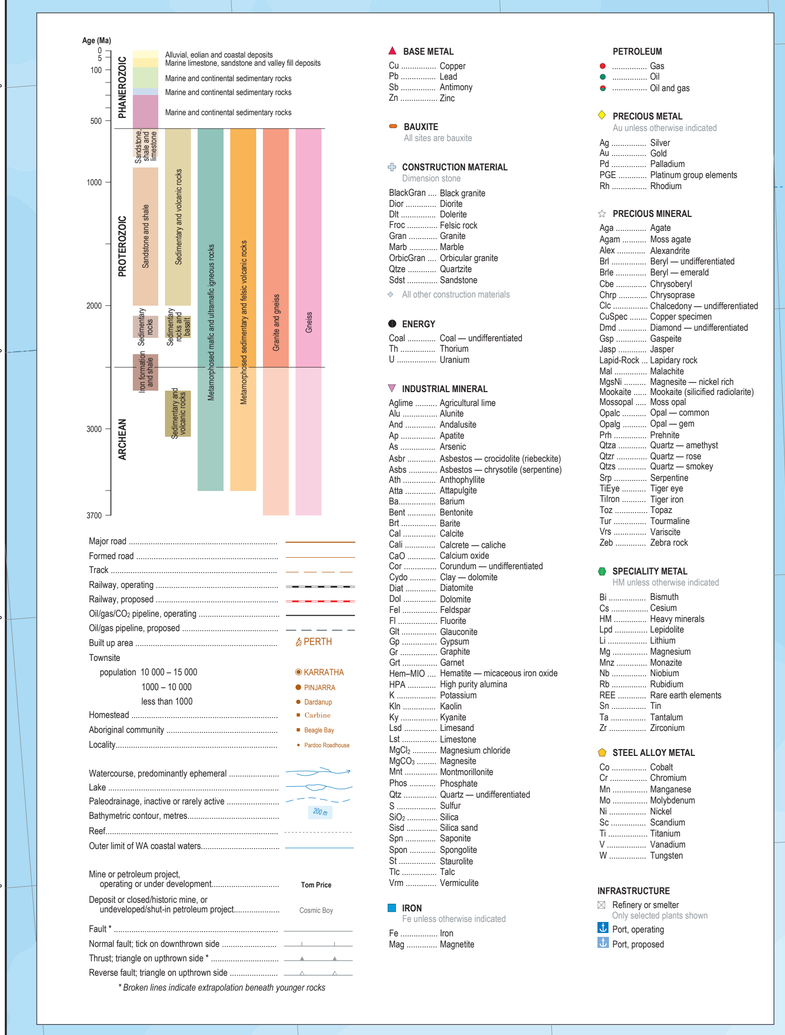
MINERAL DEPOSITS AND MAJOR PETROLEUM PROJECTS
Western Australia — 2021



Major road
Formed road
Track
Railway, operating
Railway, proposed
Oil/gas/CO_2 pipeline, operating
Oil/gas pipeline, proposed
Built up area — PERTH
Townsite
population 10 000 – 15 000 — KARRATHA
1000 – 10 000 — PINJARRA
less than 1000 — Dardanup
Homestead — Carbine
Aboriginal community — Beagle Bay
Locality — Pardoo Roadhouse

Watercourse, predominantly ephemeral
Lake
Paleodrainage, inactive or rarely active
Bathymetric contour, metres — 200 m
Reef
Outer limit of WA coastal waters

Mine or petroleum project, operating or under development — Tom Price
Deposit or closed/historic mine, or undeveloped/shut-in petroleum project — Cosmic Boy

Fault *
Normal fault; tick on downthrown side
Thrust; triangle on upthrown side *
Reverse fault; triangle on upthrown side

* Broken lines indicate extrapolation beneath younger rocks

BASE METAL
Cu ..... Copper
Pb ..... Lead
Sb ..... Antimony
Zn ..... Zinc

BAUXITE
All sites are bauxite

CONSTRUCTION MATERIAL
Dimension stone
BlackGran .... Black granite
Dior ..... Diorite
Dlt ..... Dolerite
Froc ..... Felsic rock
Gran ..... Granite
Marb ..... Marble
OrbicGran .... Orbicular granite
Qtze ..... Quartzite
Sdst ..... Sandstone
All other construction materials

ENERGY
Coal ..... Coal — undifferentiated
Th ..... Thorium
U ..... Uranium

INDUSTRIAL MINERAL
Aglime ..... Agricultural lime
Alu ..... Alunite
And ..... Andalusite
Ap ..... Apatite
As ..... Arsenic
Asbr ..... Asbestos — crocidolite (riebeckite)
Asbs ..... Asbestos — chrysotile (serpentine)
Ath ..... Anthophyllite
Atta ..... Attapulgite
Ba ..... Barium
Bent ..... Bentonite
Brt ..... Barite
Cal ..... Calcite
Calr ..... Calcrete — caliche
CaO ..... Calcium oxide
Cor ..... Corundum — undifferentiated
Cydo ..... Clay — dolomite
Diat ..... Diatomite
Dol ..... Dolomite
Fel ..... Feldspar
Fl ..... Fluorite
Glt ..... Glauconite
Gp ..... Gypsum
Gr ..... Graphite
Grt ..... Garnet
Hem–MIO .... Hematite — micaceous iron oxide
HPA ..... High purity alumina
K ..... Potassium
Kln ..... Kaolin
Ky ..... Kyanite
Lsd ..... Limesand
Lst ..... Limestone
$MgCl_2$ ..... Magnesium chloride
$MgCO_3$ ..... Magnesite
Mnt ..... Montmorillonite
Phos ..... Phosphate
Qtz ..... Quartz — undifferentiated
S ..... Sulfur
SiO_2 ..... Silica
Sisd ..... Silica sand
Spn ..... Saponite
Spon ..... Spongolite
St ..... Staurolite
Tlc ..... Talc
Vrm ..... Vermiculite

IRON
Fe unless otherwise indicated
Fe ..... Iron
Mag ..... Magnetite

PETROLEUM
..... Gas
..... Oil
..... Oil and gas

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

PRECIOUS MINERAL
Aga ..... Agate
Agam ..... Moss agate
Alex ..... Alexandrite
Brl ..... Beryl — undifferentiated
Brle ..... Beryl — emerald
Cbe ..... Chrysoberyl
Chrp ..... Chrysoprase
Clc ..... Chalcedony — undifferentiated
CuSpec ..... Copper specimen
Dmd ..... Diamond — undifferentiated
Gsp ..... Gaspeite
Jasp ..... Jasper
Lapid-Rock ... Lapidary rock
Mal ..... Malachite
MgsNi ..... Magnesite — nickel rich
Mookaite ..... Mookaite (silicified radiolarite)
Mossopal ..... Moss opal
Opalc ..... Opal — common
Opalg ..... Opal — gem
Prh ..... Prehnite
Qtza ..... Quartz — amethyst
Qtzr ..... Quartz — rose
Qtzs ..... Quartz — smokey
Srp ..... Serpentine
TiEye ..... Tiger eye
Tilron ..... Tiger iron
Toz ..... Topaz
Tur ..... Tourmaline
Vrs ..... Variscite
Zeb ..... Zebra rock

SPECIALITY METAL
HM unless otherwise indicated
Bi ..... Bismuth
Cs ..... Cesium
HM ..... Heavy minerals
Lpd ..... Lepidolite
Li ..... Lithium
Mg ..... Magnesium
Mnz ..... Monazite
Nb ..... Niobium
Rb ..... Rubidium
REE ..... Rare earth elements
Sn ..... Tin
Ta ..... Tantalum
Zr ..... Zirconium

STEEL ALLOY METAL
Co ..... Cobalt
Cr ..... Chromium
Mn ..... Manganese
Mo ..... Molybdenum
Ni ..... Nickel
Sc ..... Scandium
Ti ..... Titanium
V ..... Vanadium
W ..... Tungsten

INFRASTRUCTURE
Refinery or smelter
Only selected plants shown
Port, operating
Port, proposed

INDIAN OCEAN
TIMOR SEA
SOUTHERN OCEAN
GREAT SANDY DESERT
GIBSON DESERT
GREAT VICTORIA DESERT
GREAT AUSTRALIAN BIGHT
NULLARBOR PLAIN
NORTHERN TERRITORY
SOUTH AUSTRALIA
WEST AUSTRALIA
TERRITORY OF ASHMORE AND CARTIER ISLANDS
COMMONWEALTH 'ADJACENT AREAS' BOUNDARY
INDONESIA
AUSTRALIA
SHELF
BROWSE BASIN
CANNING BASIN
CARNARVON BASIN
OFFSHORE CANNING BASIN
OFFSHORE PERTH BASIN
PERTH BASIN
OFFSHORE OTWAY BASIN
OFFSHORE BONAPARTE BASIN
OFFSHORE ARAFURA BASIN
OFFSHORE MONTEBELLO BASIN
OFFSHORE EUCLA BASIN
OFFSHORE GIPPSLAND BASIN
OFFSHORE BASIN
Tropic of Capricorn
23°26'30"
SUMBA
WEST TIMOR
Ashmore Reef
West I
Middle I
East I
Concerto/Ichthys
Prelude
Ichthys
Sandy Isle
Scott Reef
Torosa
Brecknock
Calliance
Browse I
Gwydion
Holothuria Reef
Ombrina Shoal
Cape Londonderry
Cape Rulhieres
Blacktip
Cape Bougainville
Kalumburu
Ashmore Dmd
Bala Creek Dmd
Berkeley
Bickel Head
Mitchell Plateau
Mt Anderson
Mt Cockburn
Mt Nicholls
Pierpoint Dmd
Carson River
Mt Burns
Mt Morgons
Mt Johnstone
Nalahing
Wyndham
Durack Range
Home Valley
Koolan Island
Cockatoo Island
Derby
Kimberley Sandstone
Nillibubbacca
Broome
Ungani
Thunderbird
James Price Point
Waterbank
Roebuck Plains
Willare Roadhouse
Yakka-Munga
Udialla
Liveringa
Debesa
Gregory
Chanrith – India Bore
Nicolson
Blina
Fossil Downs
Frome Rocks
Dampier
Near Hill
Wallal Downs
Great Sandy
Great Northern
Port Hedland
Dorado
Chandon
Jansz-lo
Scarborough
Pyxis
Pluto
Xena
Brunello
Chrysaor/Dionysus
Julimar
West Tryal Rocks
Achilles
Satyr
Gorgon
John Brookes
Wonnich Deep
Spar
Halyard
Barrow Island
Reindeer
Stag
Wandoo
Athena
Hermes
Lambert
Angel
Cossack
Wanaea
Persephone
Perseus
Rankin
North Rankin
Goodwyn
Tidepole
Keast
Sculptor
Lady Nora
Wheatstone
Iago
Dockrell
Pemberton
Bambra
Linda
Jade
Boreas
Wonnich
Cape Lambert
Ankelell
Wickham
Roebourne
Karratha
Karratha Sandstone
Cape Preston
Cape Preston East
Lady Grey
Sino – George Palmer
Cape Preston
Maitland
Mermaid Sound
Legendre
Varanus Island
Onslow
Ashburton North
Ashburton Delta
Learmonth
Exmouth
EXMOUTH GULF
Coniston
Novara
Van Gogh
Ravensworth
Vincent
Enfield
Crosby
Macedon
Moondyne
Stickle
Mesa A
Mesa J
Deepdale
Ophthalmia
Kirkby
Brockman 4
Tom Price
Paraburdoo
Paraburdoo 66 West
Paraburdoo 94 East
Eliwana
West End
Hammerhead
Western Turner Syncline
Wadrah Plateau
Winning Pool
Coral Bay
Cape Cuvier
Lake MacLeod
Mooka
Carnarvon
Gnaraloo
Cape Peron
Denham
Shark Bay
Useless Loop
Hamelin Pool
Steep Point
Dirk Hartog
Faure
Monkey Mia
Yaringa
Woodleigh
Edagee
Marron
Pumbee
Wahroonga
Meedo
Woorarra
Gilroyd
Glenburgh
Callaghan
Ella Vale
Valbalen
Windora
Towrana
Canny Downs
Mt Gould
Mt Sandiman
Mt Augustus
Bangemall
Gascoyne
Murchison
Yalgoo
Meekatharra
Wiluna
Mt Magnet
Cue
Nannine
Peak Hill
Mt Jackson
Mt Clarke
Mt Dimer
Mt Padbury
Mt Keith
Leinster
Agnew
Lawlers
Sir Samuel
Laverton
Windimurra
Mt Gibson
Mt Singleton
Mt Mulgine
Mt Vetters
Mt Venn
Mt Ida
Golden Vale
Ulysses West
Copperhead
Orient Well
Mt Remarkable
Sons of Gwalia
Murrin South
Murrin East
Mt Kilkenny
Landed At Last
Queen Of The May
Sunrise Dam
Red October
Success
Tin Dog
Red Dog
Kangaroo Bore
Kalgoorlie
Boulder
Coolgardie
Norseman
Esperance
Albany
Bremer Bay
Ravensthorpe
Hopetoun
Mason Bay
Bandalup
Quaillup Lake
Condingup
Cape Arid
Israelite Bay
Point Malcolm
Eyre
Nullarbor
Eucla
Madura
Cocklebiddy Roadhouse
Caiguna Roadhouse
Balladonia Roadhouse
Noondoonia
Wonarlha
Coondambo
Nanambinia
Boonanya
Belmont
Gruyere
Kanowna Belle
Mt Charlotte
Superpit
Golden Ridge
Geko
Kalpini nickel smelter
Boorara
Daisy–Milano
Cowarna Downs
Randalls
Maxwells
Cockeyed Bob
Lloyd George
Bakers Flat
Cave Rocks
Beta Hunt
Neptune
Invincible
Hamlet
Lanfranchi
The Mount
Lake Carey
Lake Darlot
Lake Raeside
Lake Yindarlgooda
Lake Deborah East
Koolyanobbing
Southern Cross
Yilgarn Star
Yarlarweelor
Hermes
Perch
Plutonic East
Monty
DeGrussa
Starlight–Fortnum
Abra
Beyondie
K2
Bulong
Three Rivers
Marymia
Lake Aerodrome
Lake Sunshine
Lake Annean
Lake Jones
Lake Breaden
Lake Cohen
Lake Cobb
Lake Ballard
Lake Marmion
Lake Rebecca
Lake Goongarrie
Lake Wells
Lake Johnston
Lake Hope
Lake Cowan
Lake Dundas
Lake Lefroy
Lake Barlee
Lake Wallaby
Lake Weelhamby
Lake Goorly
Lake Hillman
Lake Moore
Lake Gilles
Lake Disappointment
Lake Mackay
Lake Macdonald
Lake Amadeus
Lake Christopher
Lake Throssell
Lake Yeo
Lake Gidy
Lake Gregory
Lake Gutch
Lake Isdell
Lake Auld
Lake Blanche
Lake George
Lake Dora
Lake Mcinnes
Lake Jennings
Lake Woods
Lake Mackay
Lake Macleod
Lake Macleod East
Lake Macleod West
Lake Macleod Mid
Lake Quobba
Lake Mcleod
Lake Mcleod East
Lake Mcleod West
Lake Mcleod Mid
Lake Macdonald
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