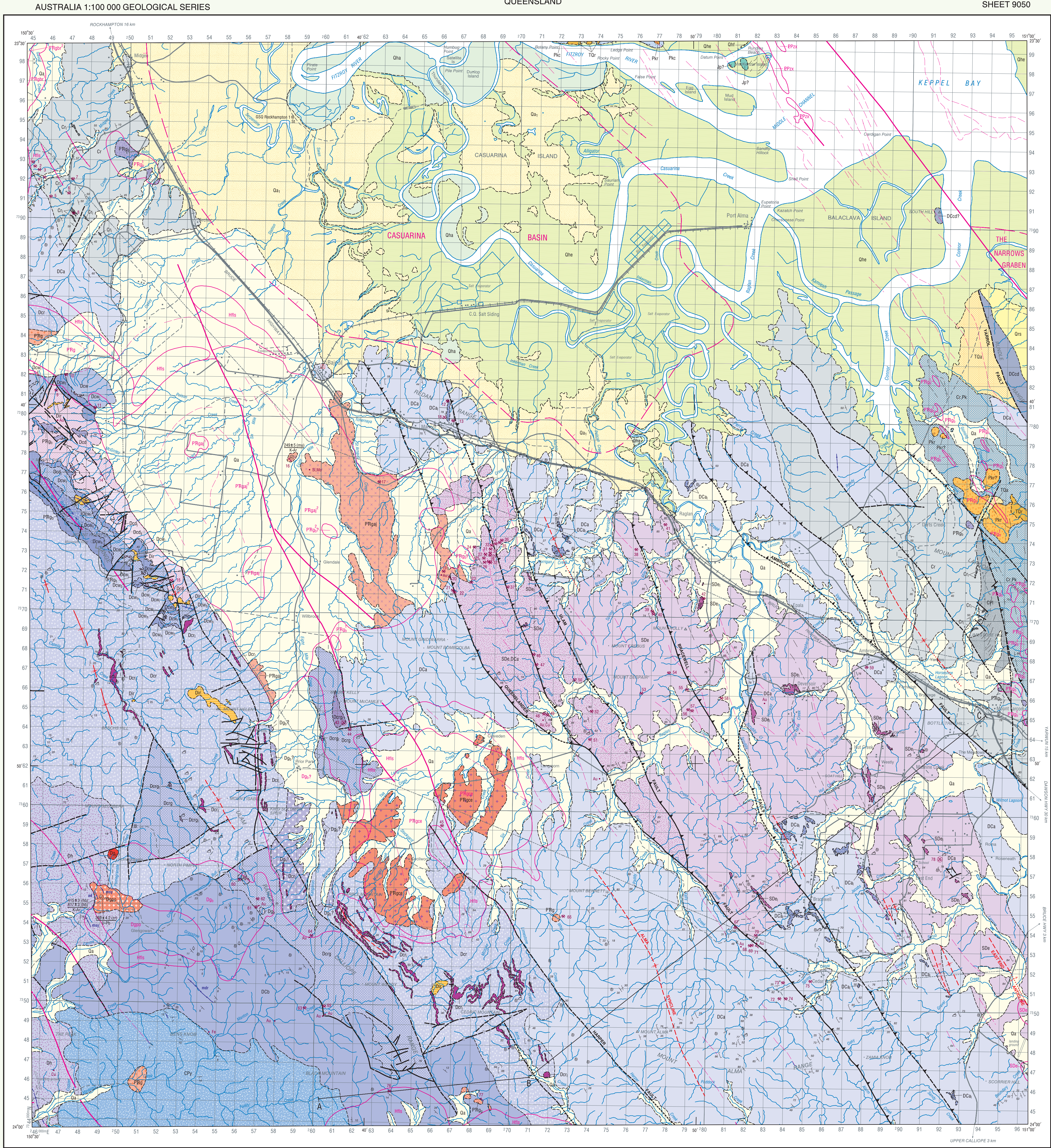


BAJOOL
QUEENSLAND

SHEET 9050



QUATERNARY

- Qta Clay, silt, sand active stream channel and low terraces
- Qhe Mud, sandy mud, muddy sand and minor gravel; estuarine channels and banks, supratidal flats and coastal grasslands
- Qh Forelune sand
- Qa Clay, silt, sand, gravel; intermediate terraces of Fitzroy River flood plain alluvium
- Qs Clay, silt, sand, gravel; flood plain alluvium
- Qrs Sand, silt, mud, gravel; residual soil

TERTIARY - QUATERNARY

- TQs Sand, mud and gravel; high-level alluvium and colluvium
- Tdr Clay, silt, sand, gravel and silt colluvial and residual deposits

JURASSIC

- Jps Thick-bedded, cross-bedded fine to coarse-grained, pebbly quartzose sandstone and minor thin subarkose sandstone, siltstone and mudstone

PERMIAN - TRIASSIC

- Prs Granite, granodiorite and diorite; low to moderate magnetic domain
- Prp Granite and granodiorite
- Prb Gabbro
- Prq Gabbro; Prq₁ - high magnetic domain; Prq₂ - very low magnetic domain (reversely magnetised)
- Prd Homblende quartz diorite; Prd₁ - high magnetic domain; Prd₂ - moderate magnetic domain
- Prf Grey, medium to coarse-grained foliated quartz-hornblende-biotite-hypersthene-apatite gabbro; Prf₁ - moderate to high magnetic domain; Prf₂ - very low magnetic domain (reversely magnetised)
- Prh Homblende quartz diorite; low to moderate magnetic domain

PERMIAN

- Per Intrusive porphyritic rhyolite and dacite; possibly locally extrusive lava and breccia
- Pk Siltstone, fine to coarse (inter)clastic sandstone, intermediate to felsic intrusive and extrusive dikes and volcanic breccia with lesser conglomerate, tuffaceous sandstone and siltstone
- Pl Siltstone, rhyolite sandstone, rhyolite to andesitic volcaniclastic breccia, rhyolite and dacite tuff and volcaniclastic sandstone

EARLY CARBONIFEROUS - EARLY PERMIAN

- Ec Mudstone, siltstone, felsic volcaniclastic sandstone, calc-bearing sandstone and conglomerate with mudstone rip-up clasts; minor limestone and felsic granitoid; siltstone, sandstone, intrusive and extrusive rhyolite and dacite dikes, volcanic breccia

LATE CARBONIFEROUS - EARLY PERMIAN

- Lc Green to brown, polymictic conglomerate; blue-grey to grey-green, quartzitic, volcaniclastic and felsic sandstone; tuffaceous to carbonaceous mudstone and siltstone; minor coal; dacite to rhyolite granitoid, dacite and lava

EARLY CARBONIFEROUS

- Ec Dark grey mudstone and siltstone, felsic volcaniclastic sandstone, calc-bearing sandstone, calc-bearing conglomerate with grey mudstone rip-up clasts; calcareous polymictic conglomerate, calcareous limestone
- Ca Dolomite limestone and calcareous sandstone

LATE DEVONIAN - EARLY CARBONIFEROUS

- Dcd Chert, jasper, mudstone, lithic tuffaceous graywacke, tuff, limestone, altered basalt
- Dca Rhyolitic volcaniclastic sandstone and conglomerate, minor ignimbrite, rare rhyolite lava, siltstone and calcareous limestone
- SDa, Dca Ullam Fault Zone - complex fault zone comprised of numerous blocks of Eribus beds and Mount Alma Formation
- Dca Thinly interbedded, fine-grained sandstone and siltstone, thick beds of volcaniclastic (andesitic to dacitic) conglomerate with rip-up clasts
- Dca Allochthonous limestone blocks, fossiliferous or recrystallised to marble

DEVONIAN

- Dgr Hornblende-biotite tonalite; moderate magnetic domain
- Dh Green grey to purple, granule to boulder andesitic/basaltic breccia/conglomerate; green grey to purple grey, fine to very coarse lithic to lithoplastic sandstone; dark grey, moderately porphyritic andesite, red brown to dark grey mudstone, minor tuff and trysticlastic
- Dg Granodiorite, tonalite
- Dg₁ Gabbro; high magnetic domain
- Dtr Intrusive porphyritic rhyolite and dacite

DEVONIAN

- Dca Dacite to rhyolitic volcaniclastic sandstone and conglomerate, rare fossiliferous limestone and porphyry
- Dca Fossiliferous limestone and marble
- Dtr Predominantly basaltic to andesitic, (rarely dacitic and rhyolitic) volcaniclastic sandstone and conglomerate, minor siltstone and fossiliferous limestone, rare andesite lava
- Dca Fossiliferous limestone
- Dca Predominantly rhyolitic volcaniclastic sandstone and conglomerate, limestone, rhyolite lava and jasper
- Dca Jasper
- Dca Rhyolitic volcaniclastic sandstone and conglomerate
- Dca Bedded jasper and rhyolitic volcaniclastic sandstone
- Dca Siltstone with subordinate rhyolitic volcaniclastic sandstone
- Dca Siltstone with subordinate rhyolitic volcaniclastic sandstone
- Dca Jasper
- Dca Andesitic to dacitic lava

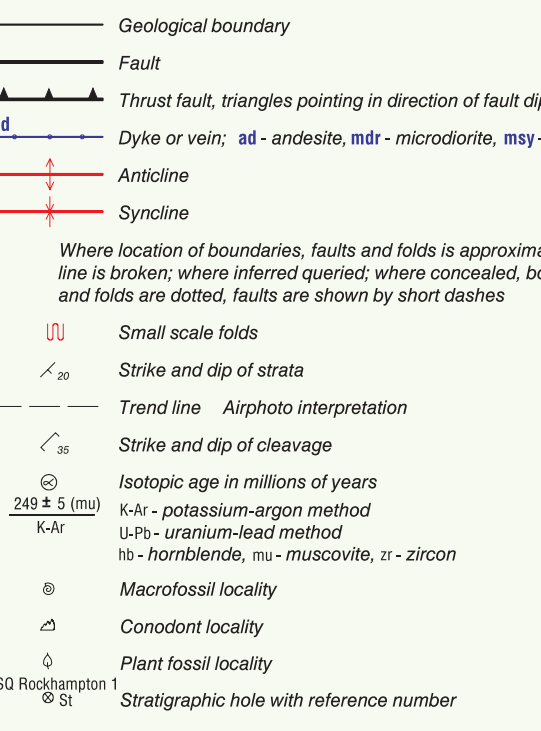
LATE SILURIAN - EARLY DEVONIAN

- SDa Dacite to rhyolitic volcaniclastic sandstone and conglomerate, minor andesite, fossiliferous limestone and marble; moderate magnetic domain
- SDa Fossiliferous limestone and marble

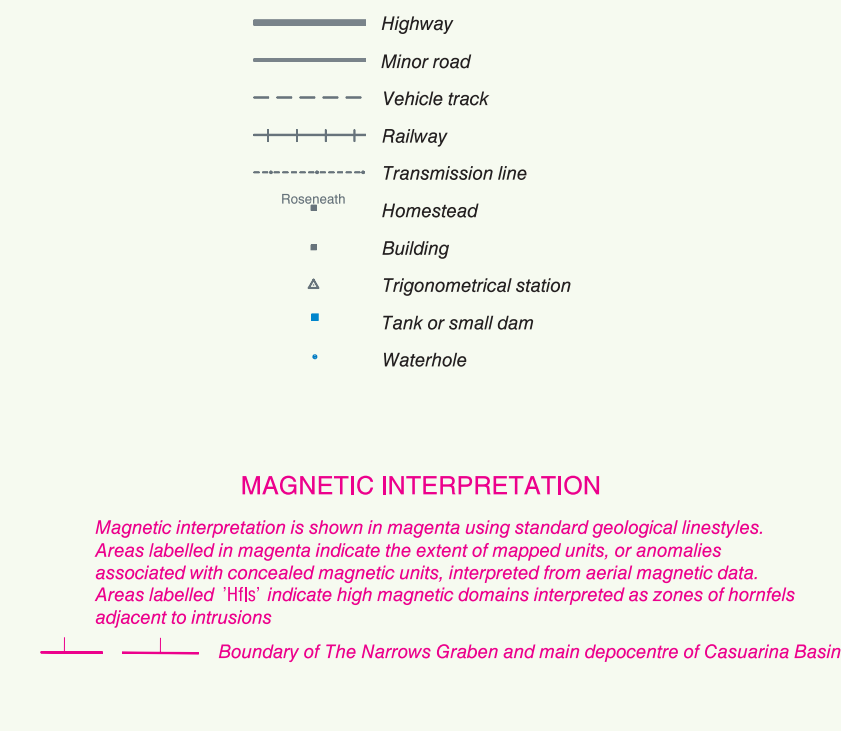
NEOPROTEROZOIC OR PALAEOZOIC

- EPx Serpentine, superheated tuffaceous, altered gabbro, minor pyroxenite (tectonically emplaced in Permian - Triassic); high magnetic domain

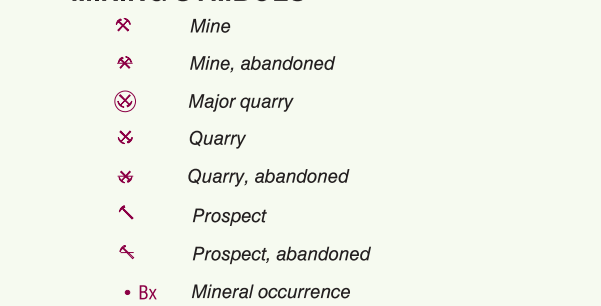
GEOLOGICAL SYMBOLS



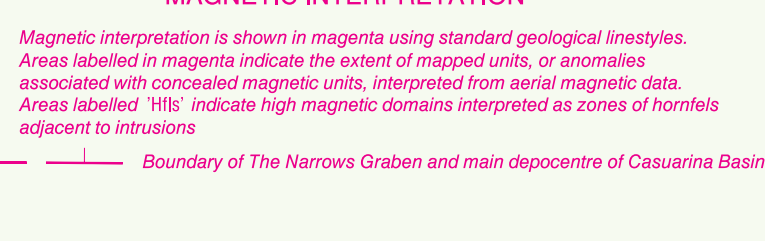
TOPOGRAPHICAL AND CULTURAL FEATURES



MINING SYMBOLS



MAGNETIC INTERPRETATION

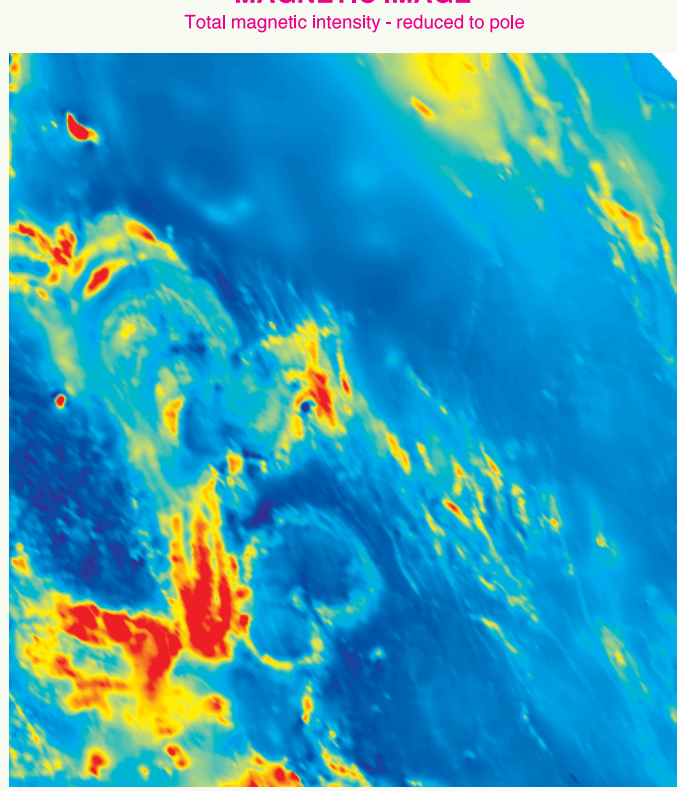


RADIOMETRIC IMAGE



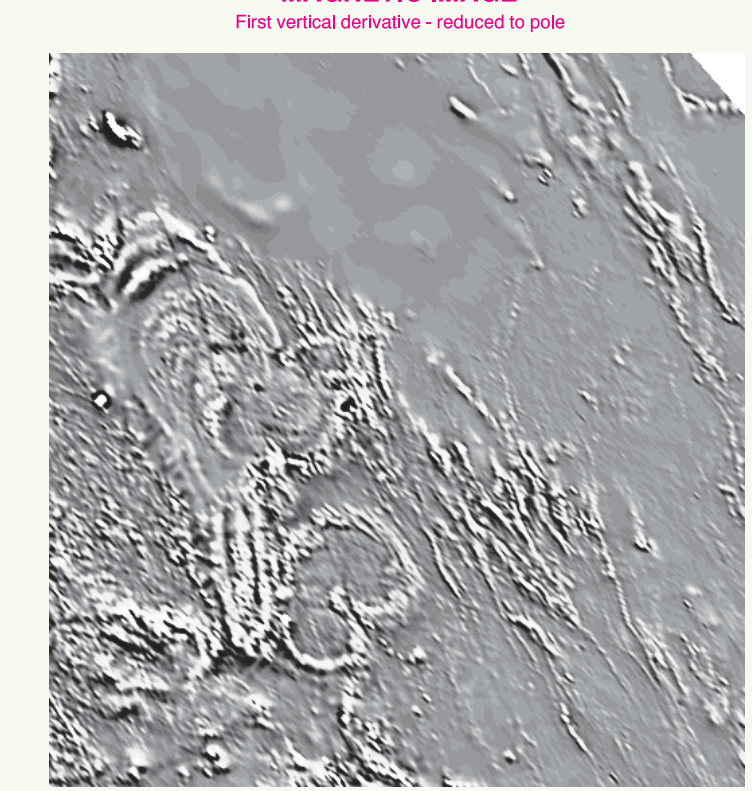
The radiometric image shows the relative concentrations of the radioactive elements potassium, thorium and uranium in the topmost 20-30 cm of the Earth's surface, as measured by an airborne detector that records gamma radiation. The data are displayed as a composite of three images, one for each element, and is displayed as a false-color image. Those with relatively high contents of all three elements appear white in the image; those with low contents (and water bodies) are dark.

MAGNETIC IMAGE



The total magnetic intensity image shows variations in the Earth's magnetic field caused by differences in the magnetic properties of rock units in the upper crust. The magnetic response of rocks is directly related to the content of magnetic minerals, and is depicted as a false-color image. Those with relatively high contents of all three elements appear white in the image; those with low contents (and water bodies) are dark.

MAGNETIC IMAGE



The first vertical derivative of the total magnetic intensity data enhances short-wavelength magnetic features relative to those with long wavelengths. The image emphasises the high gradients of the edges of magnetic bodies, and in particular highlights narrow linear magnetic features such as dikes. Variations in magnetic response are indicated by shades of grey, with the strongest magnetic units shown in white. Black areas are either reversely magnetised rock units, or a 'shadow' effect adjacent to highly magnetic features.

Images generated from airborne geophysical data available from the Department of Natural Resources, Mines and Water, Brisbane

INDEX TO MINES AND PROSPECTS

1	Stockholm	Au	40828	39	Two Mile Diggs	Au	770702
2	—	Au	41503	40	The Mile Creek	Au	770701
3	Long Gully	Au	45424	41	Duke of Brittany	Au	770747
4	Midge Creek	Au	45820	42	Milner Quarry	Au	780769
5	Deansboro Gully	Au	45910	43	Ullam Quarry	Li	613645
6	Saint Gifford	Au	46912	44	Austrelly	Cu, Pb	615641
7	Mines Dream	Au	47193	45	—	Au	664591
8	Diggers Creek	Au	47362	46	Werra Hill	Au	664591
9	Furness Ridge	Au	48403	47	Mount Helen	Au	710974
10	—	Au	48519	48	—	Au	710649
11	Welsham Spin	Au	48403	49	Gully Lease	Au	710649
12	Hill 60	Au	48519	50	Duke of York	Au	730635
13	Dispers	Au, Cu, Pb	50778	51	—	Au	730635
14	Dike Prospect	Au	50778	52	Duke of York	Au	730635
15	Aluk	Cu, Ag	52314	53	—	Au	750680
16	Lynette Hill	Li	50778	54	—	Au	750680
17	San Jose	Si	62956	55	Pandemonium Flats	Au	780683
18	Warr Quarry	Li	63051	56	Mount Holly	Au	780683
19	—	Li	63051	57	Diandra	Cu, Au, Ag	781652
20	Martins Prospect	W	66771	58	Belgar Flats	Li	880975
21	—	W	66771	59	Amberstone Quarry	Li	880975
22	—	Cu, Au	66771	60	King Solomon	Li	880975
23	—	—	66771	61	Quays of Sheba	Au	980449
24	Tree Blue	Au	67719	62	Tony Gully	Au	970933
25	—	Au	67719	63	—	Au	980449
26	Quarrendam	Au	68328	64	Diggers Mine	Au	980449
27	Recovery (Zigzag)	Au	68476	65	Barre Gully	Au, Cu	980449
28	The Perseverance	Au	68476	66	Mount Bennett	Au	730446
29	—	Au	68476	67	—	Au	730446
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36	—	Au	68476	74	—	Au	823332
37	—	Au	68476	75	—	Au	823332
38	—	Au	68476	76	—	Au	823332
39	Port Alma	Au	76134	77	—	Au	823332
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61	—	Au	76134	99	—	Au	823332
62	—	Au	76134	100	—	Au	823332

The grid reference is a six figure abbreviated MGA 54 coordinate to the nearest 100 metres

BAJOOL
SHEET 9050
FIRST EDITION 2001
REVISED MARCH 2006



Copies of this map may be obtained from the Department of Natural Resources, Mines and Water, Brisbane

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INDEX TO 1:100 000 MAPS

MAP NO.	NAME	SCALE	DATE	STATUS
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