AUSTRALIA 1:250 000 GEOLOGICAL SPECIAL

Queensland Government
Natural Resources and Mines

YARRAMAN SPECIAL GEOLOGY
QUEENSLAND

INDEX TO MINES AND PROSPECTS

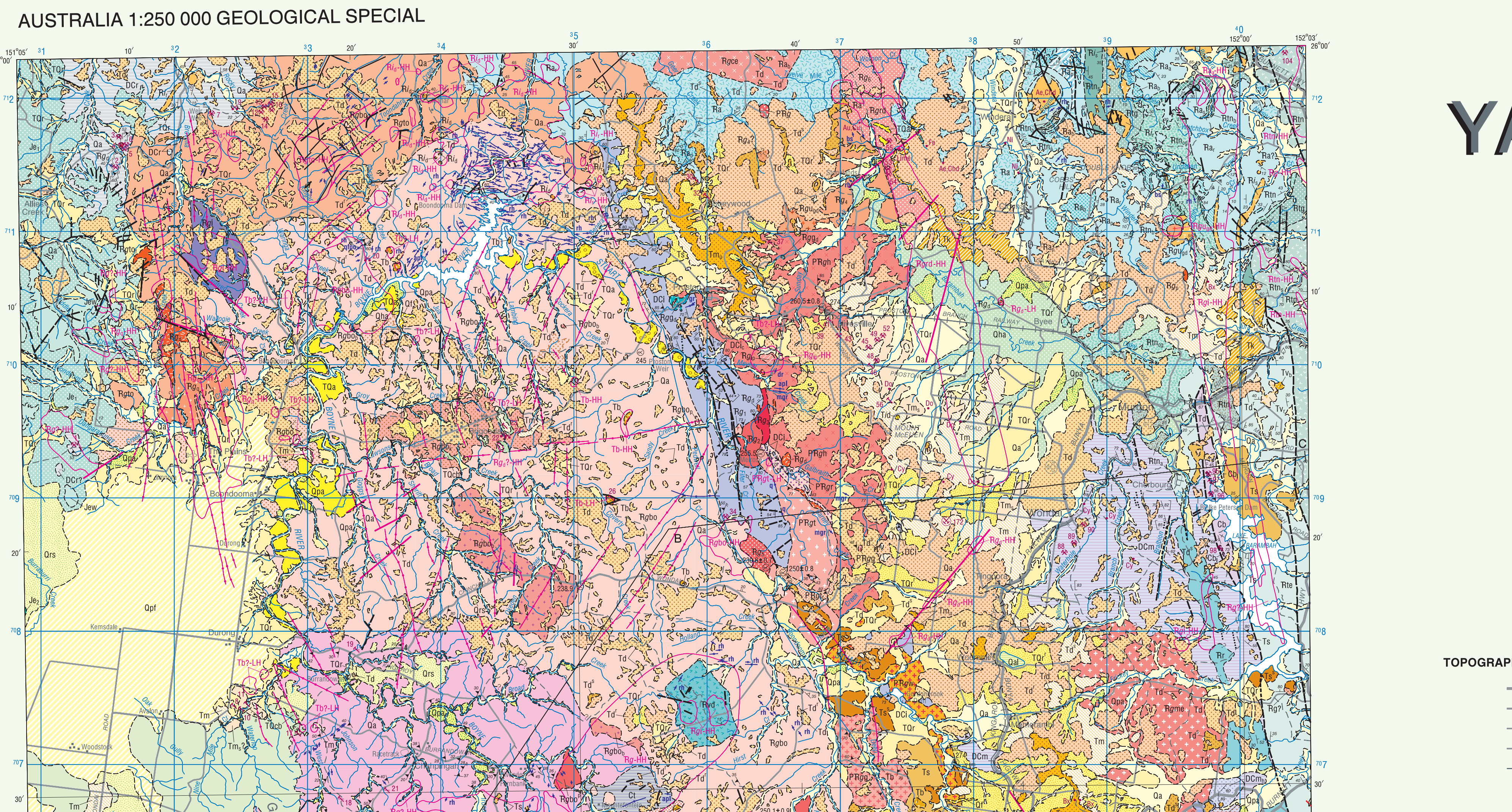
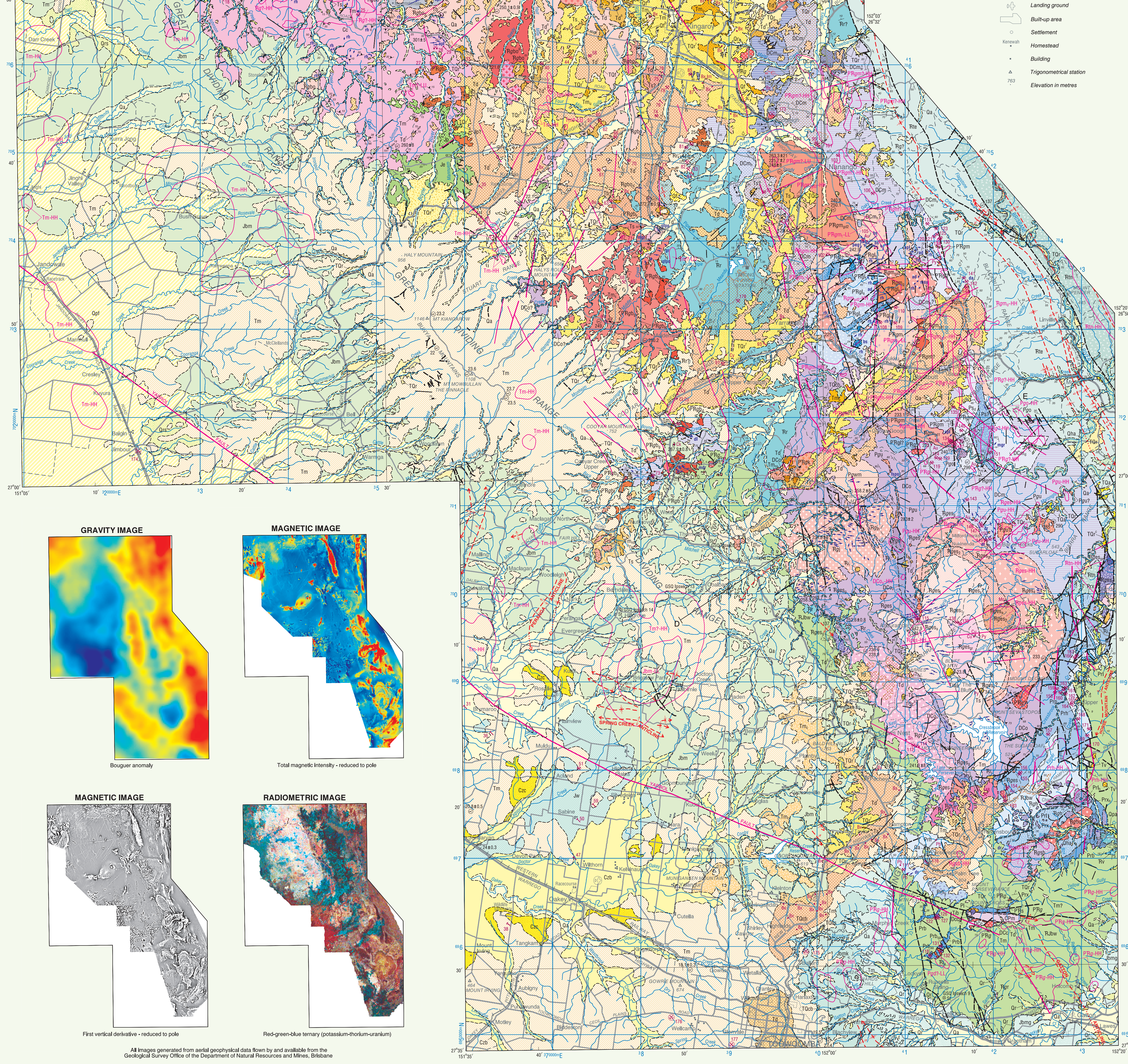
No.	Name	Commodity	Grid reference
1	Dangarabungy	Au	3124 70939
2	Golden Whiptail	Au,Ag,Cu	3153 71148
3	Unnamed	Au	3158 71170
4	Stumers Shaft	Au,Ag,Cu	3159 71164
5	Welcome	Au	3162 71161
6	Unnamed	Au	3163 71164
7	Susanne	Sn	3227 71188
8	Sunray	Ck	3244 70743
9	Rocky Creek Alluvials, Gorge Waterhole	Sn	3245 71193
10	Glory	Ck	3250 70741
11	Binelong	Ck	3254 70745
12	Unnamed	Sn	3265 71189
13	Burnett Claim	Sn	3267 71193
14	Burnett	Sn	3268 71183
15	Boondooma	Sn	3272 71195
16	Unnamed	Sn	3273 71191
17	Blackjack	R,Ck	3293 70723
18	Unnamed	Fs	3325 70674
19	Spring Creek	Au	3337 70786
20	Kingar Creek	Sn,Im	3345 71080
21	Chapingh No.1	Fs	3359 70680
22	Leurajoy	Gn,Zr	3447 70948
23	Brigooda	Di,Gn	3448 70954
24	Garnet Gully	Gn,Zr	3450 70947
25	Fernbank Copper Mine	Cu	3479 70656
26	Ballogie Gem Deposit	Gn	3528 70900
27	Jumma Creek Rutile	R,Im	3551 70596
28	Mannuem Creek Rutile	R,Im,Fs	3567 70620
29	Kingaroy Rutile	R,Im,Fs	3576 70620
30	Proston No.1b	Cy	3591 71138
31	Box Ridge	C	3597 69869
32	Proston No.1a Occurrence	Cy	3599 71126
33	Boyne River Sapphire Occurrence	Cn	3604 70603
34	Ronald John	Ag,Au	3613 70885
35	Kumbia Bauxite Deposits	Bx	3615 70464
36	Tarko	C	3630 69841
37	Unnamed	Cy	3647 71091
38	Oakey	C	3650 69625
39	Hivesville No.1 Occurrence	Cy	3683 71031
40	Wattle Grove	Ck	3687 70601
41	Hivesville	Ck	3693 71038
42	Kumbia Bauxite Deposit	Bx	3698 70570
43	Whitebank	Do	3698 71021
44	Wattle Grove 184	Ck	3720 70607
45	Blue Gums	Do	3721 71013
46	Unnamed	Do	3722 70999
47	Sabine South	C	3725 69700
48	Blue Rocks	Do	3727 71003
49	Blue Moon	Do	3727 71018
50	Sabine	C	3729 69743
51	Acland	C	3729 69801
52	Whitehill	Do	3731 71021
53	Bar 23 Gold Mine	Au	3735 71146
54	Red Rock	Au,Ag,Cu	3736 71143
55	Golden Spur	Au	3736 71167
56	Robinsons	Do	3737 70973
57	Kumbia Bauxite Deposits	Bx	3741 70532
58	Wattle Grove 139	Ck	3742 70609
59	Turkey Hill	C	3747 69760
60	Morrisseys	Ck	3751 70540
61	Rebecca	Ck	3752 70480
62	Winter No.1	Ck	3754 70535
63	Kumbia Bauxite Deposits	Bx	3756 70441
64	ML 203156	Au	3759 70307
65	Huber South	Ck	3765 70445
66	Taabinga No.1	Ck	3770 70517
67	Brooklands Clay	Ck	3781 70409
68	Maidenwell	Dt	3782 70352
69	Portion 29	Dt	3786 70346
70	Huber West	Ck	3786 70491
71	Luck Deep	Fs	3787 70398
72	Brooklands Feldspar Deposit No.1	Fs	3800 70387
73	Unnamed	Au	3813 70134
74	Huber North	Ck	3817 70542
75	Links No.1	Ck	3822 70586
76	Taabinga South Kaolin Prospect	Ck	3823 70558
77	Huber East	Ck	3823 70482
78	Links No.2	Ck	3825 70590
79	Boonenne	Ck	3830 70574
80	Cooyar Kaolin Prospect	Ck	3842 70192
81	Nanango Clay Pit	Ck	3851 70506
82	Nyora Kingaroy Kaolin	Ck	3852 70489
83	Goodger 1	Ck	3853 70481
84	Maryvale	Ck	3855 70476
85	Taabinga Kaolin Prospect	Ck	3856 70589
86	ML5675	Ck	3857 70509
87	Ushers Hill Prospect	Ck	3863 70573
88	Boisens No.2	Au	3868 70858
89	Boisens No.1	Au	3875 70866
90	Wondai Clay Pit	Cy	3882 70879
91	Cedars Mine	Ci,Ck	3893 70260
92	Nancy Mine	Mn	3939 70455
93	ML 203250	Cy	3941 70284
94	Kingaroy Kaolin	Ck	3961 70422
95	Barambah Quarry	Ls	3976 70918
96	Barkers Creek Limestone Deposit	Ls	3978 70903
97	Barambah Limestone Deposit	Ls	3978 70911
98	Cherbourg Limestone Deposit	Ls	3985 70862
99	Hilary Clay	Ck	3999 70511
100	Sunshine Brickworks	Ck	4001 70507
101	Nanango Bricks	Ck	4002 70508
102	Resurrection Mine	Au	4012 70384
103	One Mile Diggings	Au	4023 70497
104	South Burnett Mine	Au	4033 71234
105	Bismuth Prospect	Au,Ag,Bi	4052 70401
106	Mount Franey	Au,Ag	4063 70454
107	Yarraman Creek	Au	4067 70393
108	Ashington Copper-Gold Mine	Au,Ag,Cu,Zn	4071 70307
109	Golden Bird Camp	Au,Ag,Co	4088 70307
110	Taromeo Copper Mine	Au,Ag,Cu	4089 70324
111	Silver Crown	Cu,Ag,Au,Pb,Zn	4098 69687
112	Hogarths Holes	Sn,W	4109 69828
113	Unnamed	Mo	4113 69971
114	Three Mile Creek	Sn	4114 69828
115	Anduramba Prospect	Mo,W	4114 69971
116	Kynoch Road Prospect	Au	4124 69695
117	Nellie Grant	Au,Ag,Pb,Zn	4125 70419
118	Unnamed	Au	4128 69589
119	Grehans A1 Prospect	Au	4130 70148
120	Pickles Workings	Au,Ag,Pb	4132 70405
121	Neilsens Adit	Au,Ag,Pb	4132 70405
122	Unnamed	Au	4134 69632
123	Kingsleys "Racecourse"	Ag,Pb	4135 70414
124	Nukinenda	Au,Ag,Pb,As	4135 70154
125	McNamara and Powers Shaft	Au,Ag,Pb,Hg	4136 70407
126	Paradise Creek	Cu,Ag,Au	4136 69635
127	Unnamed	Cu	4137 69632
128	Murrells Shaft	Ag,Pb	4139 70402
129	Marcasite Prospect	Au	4139 70153
130	The Sunshine	Ag,Pb	4140 70403
131	Unnamed	Au	4140 69600
132	Alice Creek Gold Mine	Au	4140 69594
133	Mount Langan	Au,Ag,Pb,Zn,Bi	4151 70172
134	Yellow Ore	Au,Ag,Pb	4152 70173
135	Lucky Friday	Fe	4154 70211
136	Emu Creek Silver-Lead	Au,Ag,Pb	4155 70170
137	General Jim	Au,Ag,Pb,Zn	4156 70169
138	Eskdale Antimony	Sb,Au	4158 69967
139	Eskdale	Sb	4162 69966
140	Opossum Creek	Au,Ag	4163 70185
141	Nethercotes Mine	Au	4166 70358
142	Red Queen Mine	Au,Ag,Cu	4167 70354
143	Nukinenda Dyke	Au	4167 70105
144	Black Diamond Gold Mine	Au,Cu	4169 70347
145	Unnamed	Au	4179 70083
146	Unnamed	Au	4182 70079
147	Unnamed	Au	4183 70076
148	Ravensbourne	Sd,Cy	4190 69772
149	Unnamed	Au	4191 70060
150	Milford Rocks	Au	4194 70062
151	Unnamed	Au	4195 70160
152	Unnamed	Au	4212 69769
153	Unnamed	Au	4212 69764
154	Unnamed	Au	4216 69780
155	Sylvesters Mine	Au,Cu	4229 69795
156	Unnamed	Au	4230 69797
157	Unnamed	Cu?	4262 69840
158	Unnamed	Cu	4269 69887
159	Unnamed	Cy	4271 69891
160	Unnamed	Cu,Au	4275 69887
161	Unnamed	Cu	4279 69890
162	Saxon	Au	4281 69886
163	Saxon	Cu	4282 69893
164	Kipper Creek Prospect	Au	4288 69873
165	Blue Hills No.2	Cu	4289 69875
166	North Star	Cu	4292 69927
167	Galena Lode	Pb	4294 69929
168	Kipper?	Au	4296 69857
169	Blue Hills	Cu	4306 69839
170	Blue Hills No.3	Cu	4308 69827
171	Unnamed	Cu?	4308 69846
172	Cushnie	Agg	3780 70883
173	Hodgleigh (Nanango Quarry)	Rm	3949 70544
174	Jimbour	Agg	3230 70162
175	Harlaxton	Rm	3987 69595
176	Wellcamp Downs	Rc	3835 69520
177	Glenvale	Rm	3903 69489
178	Meandu	C	3917 70336

The grid reference is a nine figure abbreviated AMG coordinate to the nearest 100 metres

MINING SYMBOLS

- ⚒ Mine
- ⚒ Mine, abandoned
- ⊗ Major open cut or quarry
- ✕ Alluvial workings
- ✕ Alluvial workings, abandoned
- ⛏ Prospect
- ⛏ Prospect, abandoned
- • Bx Mineral occurrence

Agg - aggregate other than crushed rock, Ae - agate, Ag - silver, As - arsenic, Au - gold, Bi - bismuth, Bx - bauxite, C - coal, Chd - chalcedony, Ci - bentonite, Ck - kaolin, Cn - corundum, Co - cobalt, Cu - copper, Cy - clay, Di - diamond, Do - dolomite, Dt - diatomite, Fe - iron, Fs - feldspar, Gn - garnet, Hg - mercury, Im - ilmenite, Lime - earthy lime, Ls - limestone, Ml - mica, Mn - manganese, Mo - molybdenum, Ni - nickel, Pb - lead, Py - pyrite, R - rutile, Rc - crushed-rock, Rm - road material, Sb - antimony, Sd - sand, Sn - tin, W - tungsten, Zn - zinc, Zr - zirconium

GRAVITY IMAGE

Bouguer anomaly

MAGNETIC IMAGE

Total magnetic intensity - reduced to pole

MAGNETIC IMAGE

First vertical derivative - reduced to pole

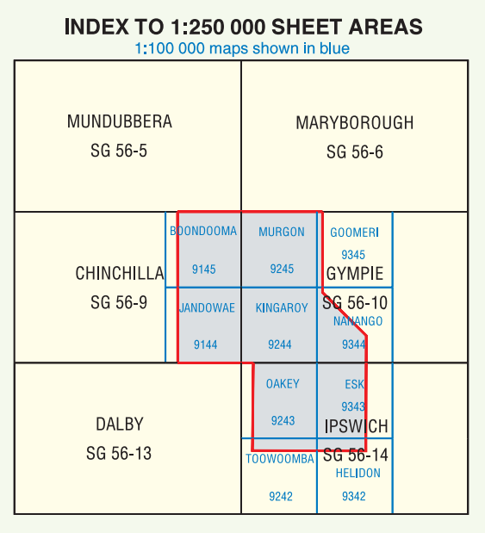
RADIOMETRIC IMAGE

Red-green-blue ternary (potassium-thorium-uranium)

All images generated from aerial geophysical data flown by and available from the Geological Survey Office of the Department of Natural Resources and Mines, Brisbane

INDEX TO 1:250 000 SHEET AREAS

1:100 000 maps shown in blue



TOPOGRAPHICAL AND CULTURAL FEATURES

- Highway
- Secondary road
- Minor road
- Vehicle track
- Railway with station
- Airport
- Landing ground
- Built-up area
- Settlement
- Kenewah ▪ Homestead
- ▪ Building
- △ Trigonometrical station
- 763 Elevation in metres

GEOLOGICAL SYMBOLS

- Geological boundary
- Deep weathering profile; mottled or leached rocks
- Fault
- Shear zone
- ad Dyke or vein

ad - andesite, **apl** - aplite, **bs** - basalt, **da** - dacite, **dl** - dolerite, **dr** - diorite, **fspo** - feldspar porphyry, **gr** - granite, **mdr** - microdiorite, **mgr** - microgranite, **msy** - microsyenite, **peg** - pegmatite, **q** - quartz, **qfpo** - quartz-feldspar porphyry, **rd** - rhyodacite, **rh** - rhyolite

- Anticline
- Syncline
- Anticline showing plunge
- Syncline showing plunge
- Anticline showing double plunge away from culmination
- Syncline showing double plunge away from culmination
- Overturned anticline
- Overturned syncline

Where location of boundaries, faults and folds is approximate, line is broken; where inferred queried; where concealed, boundaries and folds are dotted, faults are shown by short dashes

- 85 Minor syncline showing dip
- 36 Strike and dip of strata
- 54 Strike and dip of strata, younging unknown
- Vertical strata
- 83 Strike and dip of inverted strata
- Strike and dip of strata, dip 5°- 15°
- Strike and dip of strata, dip 15°- 45°
- Trend-line
- Lineament
- Joint pattern

(Strike and dip of strata, dip 5°- 15°; Strike and dip of strata, dip 15°- 45°; Trend-line; Lineament; Joint pattern: Airphoto interpretation)

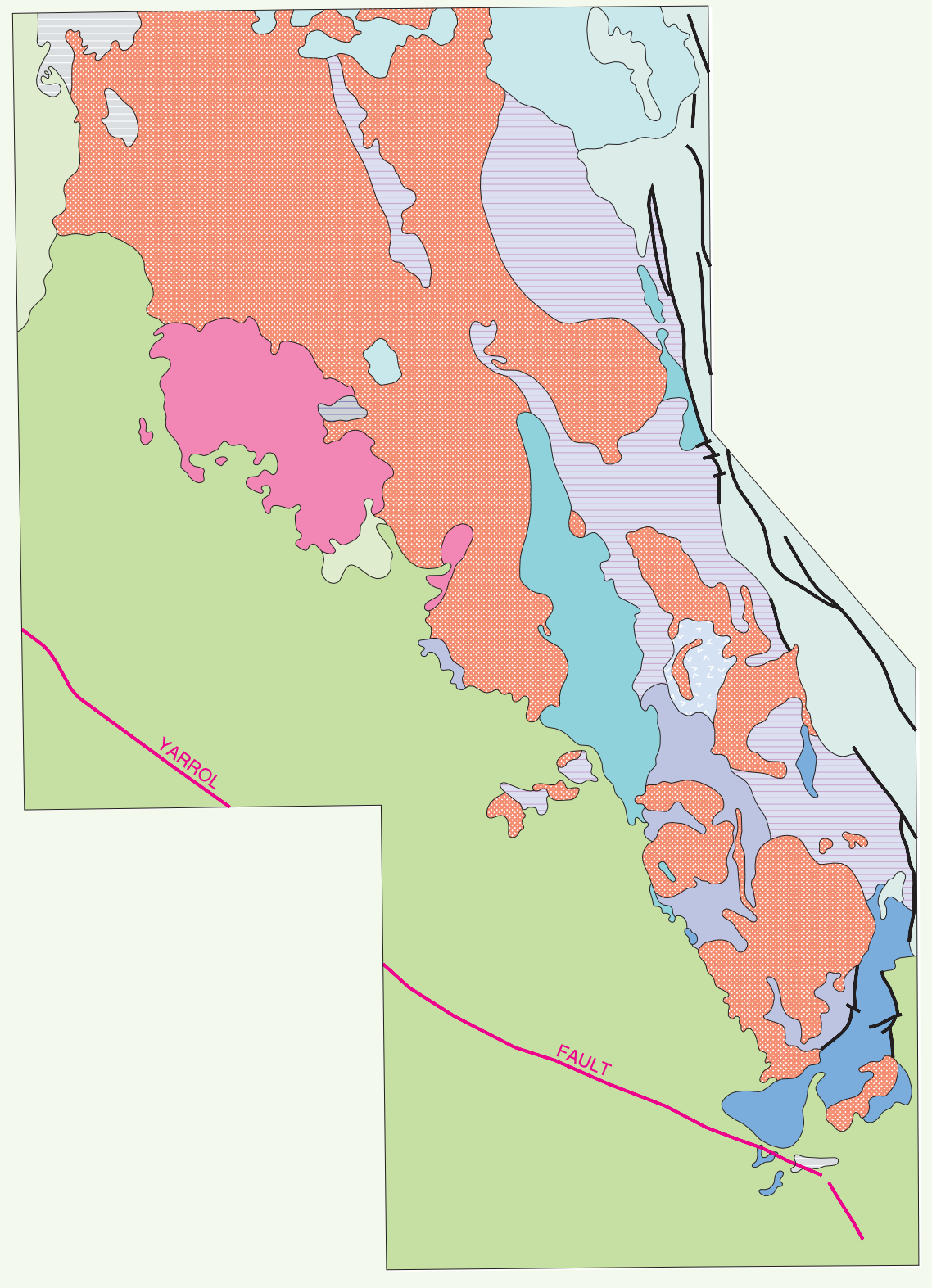
- 42 Strike and dip of joint
- 30 Strike and dip of foliation
- 5 75 Strike and dip of foliation and plunge of lineation
- 36 43 Strike and dip of foliation and plunge of mineral elongation
- 45 Strike and dip of foliation, second deformation episode
- 20 23 Strike and dip of foliation and plunge of bedding-cleavage intersection
- 70 70 Strike and dip of foliation and plunge of crenulation
- Vertical foliation
- 83 Strike and dip of cleavage
- Vertical cleavage
- 30 Strike and dip of platy alignment
- Plant fossil locality
- Fossil wood locality
- ◎ Macrofossil locality
- ⊗ 27.4 Isotopic age in millions of years
- GSQ Ipswich 14 St ⊗ Stratigraphic hole
- ⋯⋯⋯ Chert bed
- ○○○○○○○○○○ Conglomerate bed
- △▽△▽△▽△▽ Fault breccia

Geophysical linestyles are identical to geological linestyles except they are shown in magenta

PARTS OF SG 56-9, SG 56-10 AND SG 56-14
FIRST EDITION 2001

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

STRUCTURAL ELEMENTS



Surat Basin
- Latest Triassic to Jurassic sediments

Clarence-Moreton Basin
- Latest Triassic to Jurassic sediments

Tarong Basin
- Late Triassic sediments

Esk Trough and related deposits
- Early - Middle Triassic sediments, continental arc volcanics and volcaniclastics

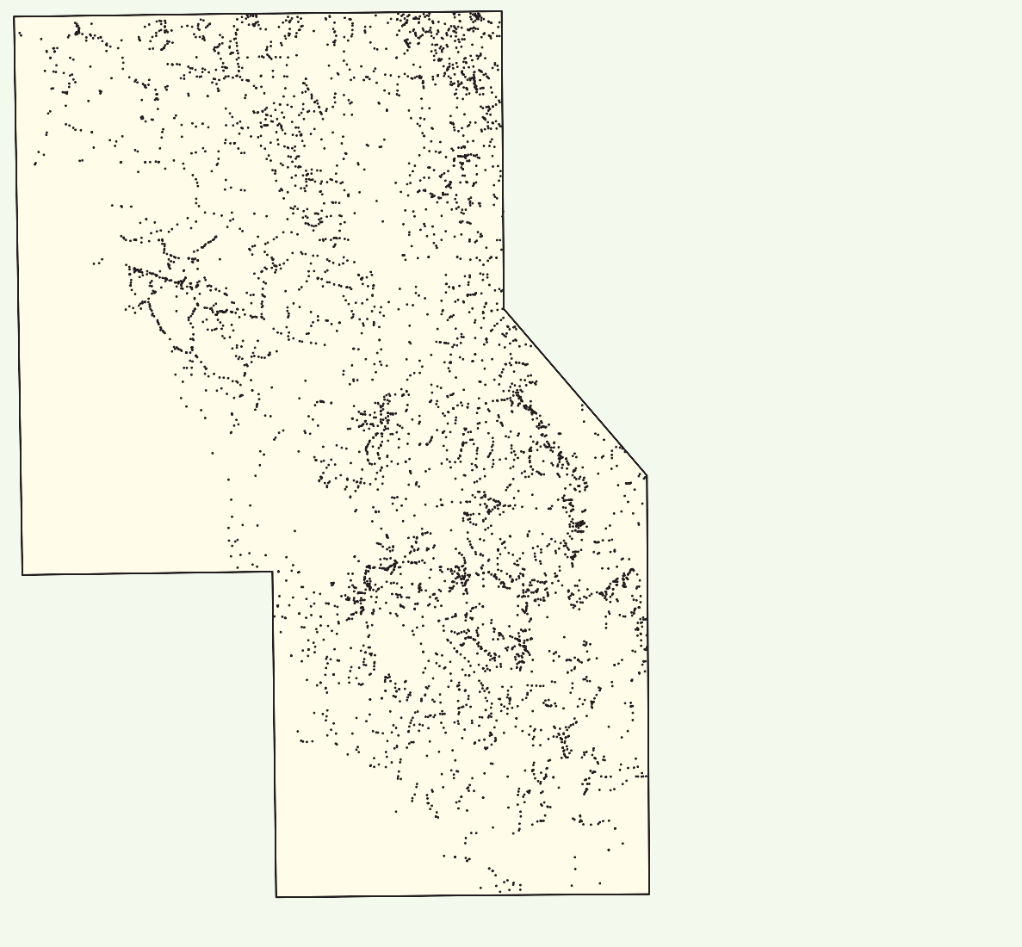
South-east Qld Volcanic and Plutonic Province
- Late Triassic post-orogenic volcanics and related deposits
- Permian - Triassic granitoids
- Late Permian - Triassic volcanics and sediments

Gympie Province (Cressbrook Subprovince)
- Permian marine basins

Wandilla Province (Yarraman Subprovince)
- Late Carboniferous syntectonic granitoids and metamorphics
- Late Carboniferous metamorphics associated with intrusions of syntectonic granitoids
- Devonian - Carboniferous weakly metamorphosed shallow to moderate level accretionary wedge rocks
- Devonian - Carboniferous moderate to strongly metamorphosed accretionary wedge rocks

Yarrol Province
- Weakly metamorphosed forearc basin rocks

FIELD OBSERVATION POINTS



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SCALE 1:250 000

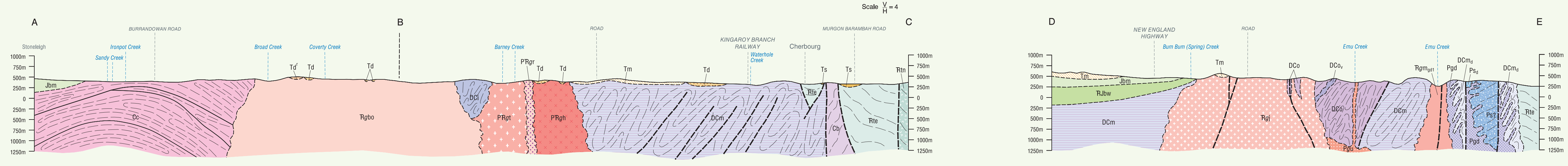
5 0 5 10 15 20 25 Kilometres

BLUE NUMBERED LINES ARE 10 000 METRE INTERVALS OF THE AUSTRALIAN MAP GRID, ZONE 55
TRANSVERSE MERCATOR PROJECTION

Geology
1997-1999 compiled and updated by L.C. Cranfield, P.J.T. Donchak, R. Randall and G.C. Crosby from first edition geological maps of the Chinchilla, Gympie and Ipswich 1:250 000 map sheet areas and from undergraduate and postgraduate theses (see references in report for details)
Mineral Occurrence Mapping
1997-1999 by R. Randall, L.C. Cranfield, P.J.T. Donchak, G.C. Crosby and J. Osborne
Cartography
Graphical Services Unit, Department of Natural Resources and Mines

SECTIONS

Quaternary units omitted
Folding and shearing schematic
Scale V/H = 4



QUATERNARY

Unit	Description
Czb	Gravel, sand, mud: mainly basalt detritus
Czc	Residual soil, colluvium: mainly basalt detritus
Qa	Flood plain alluvium: clay, silt, sand, gravel
Qhh	Man-made deposits associated with mining; tailings, dumps and rehabilitated areas
Qha	Active stream channel: gravel, clay, sand
Qpa	Stranded river terraces (above general flood plain); clay, silt, sand, gravel
Qpf	Sandy alluvium of Condamine River with vertebrate fossils
Qal	Lakes in alluvial plain: silt, clay
Qf	Clay, silt, scree
Qf^b	Black clay and silt (basalt derived)
Qr	Residual soil, colluvium: sand, soil, clay, rock debris
Qrs	Residual soil, colluvium: sand, silt

TERTIARY - QUATERNARY

Unit	Description
○○○	Regolith: weakly mottled rocks
⋯	Regolith: deep weathering profile-leached, kaolinised and mottled rocks, red soil, minor ferricrete
TQa	High-level alluvial deposits, generally dissected and related to present stream valleys; locally mottled, poorly consolidated sand, silt, clay, minor gravel
TQc	Colluvial deposit: clay, silt, scree
TQcb	Colluvium (basalt-derived soil, clay, cobbles and boulders)
TQcs	Colluvial deposit: clay, silt, pebbles and cobbles (mainly basalt derived)
TQf	Alluvial fan: silt, mud, clay
TQr	Pediment slope wash: clay, scree, soil
TQr^r	Red soil, pediment slope wash (eroded from Td^r)
TQr^c	Residual deposits and pediment slope wash: clay, scree, indurated
TQr^w	Residual, brown basalt-derived soil
TQr^b	Residual deposits and pediment slope wash: clay, scree, soil (developed from basalt)
TQr^s	Residual deposits and pediment slope wash: sand (developed from granite)

TERTIARY - MIOCENE TO PLIOCENE

Formation	Unit	Description
	Td	Duricrusted old land surface: ferricrete, silcrete and indurated palaeosols at the top of a deep weathering profile
	Td^r	Laterite, extensive red soil development, minor ferricrete
	Td^s	Silcrete, silicified quartz sandstone
	Ts	Quartzose to sublabile sandstone, claystone, conglomerate, minor local olivine basalt
	Ts^s	Silicified locally pebbly quartzose sandstone
Main Range Volcanics	Tmu	Olivine basalt (upper bench-forming flows)
Main Range Volcanics: Cooby Trachyte Member	Tmc	Dark purplish-grey, very fine-grained trachyte
Main Range Volcanics	Tm	Olivine basalt
Main Range Volcanics: Nutgrove Rhyolite Member	Tmnb	Rhyolite breccia with perlite fragments, minor basalt and granite fragments
Main Range Volcanics: Nutgrove Rhyolite Member	Tmnr	Cream to light purple, flow-banded rhyolite intrusives and flows, spherulitic in part, rhyolite breccia, minor biotite, minor perlite
Main Range Volcanics	Tms	Sandstone, shale, siltstone, quartz pebble conglomerate, diatomite and tuffaceous sediments
Oakdale Sandstone	Tk	Sandstone, conglomerate, shale
	Tb	Olivine basalt
	T/b	Olivine basalt plug
	T/d	Dolerite, basalt (intrusive)
	Tvb	Mainly basalt flows
	Tvr	Rhyolite lava and pyroclastic deposits
	Tv	Mainly basalt flows, some plugs

LATEST TRIASSIC - JURASSIC

Formation	Unit	Description
Evergreen Formation	Je	Carbonaceous mudstone, siltstone, sandstone (Surat Basin)
Evergreen Formation	Je2	Siltstone, fine feldspathic to sublabile sandstone (Surat Basin)
Westgrove Ironstone Member	Jew	Fine lithic sandstone, siltstone, mudstone, concretionary ironstone, oolitic in part (Surat Basin)
Evergreen Formation	Je1	Arkose and feldspathic sandstone, some pebbly, some calcareous, siltstone, mudstone (Surat Basin)
Precipice Sandstone	Jp	Quartzose sandstone, siltstone, mudstone, conglomerate
Walloon Coal Measures	Jw	Shale, siltstone, lithic labile sandstone, coal, minor quartz sandstone (Clarence-Moreton Basin)
Bundamba Group: Marburg Subgroup	Jbm	Lithofeldspathic labile and sublabile sandstone, siltstone, shale, minor coal, ferruginous oolite marker (Clarence-Moreton Basin)
Koukandowie Formation	Jbmk	Lithofeldspathic labile and sublabile to quartzose sandstone, siltstone, shale, minor coal, ferruginous oolite marker (Clarence-Moreton Basin)
Gatton Sandstone	Jbmg	Lithic labile and feldspathic labile sandstone (Clarence-Moreton Basin)
Woogaroo Subgroup	ƦJbw	Quartzose sandstone, siltstone, shale, conglomerate, minor coal (Clarence-Moreton Basin)

LATE TRIASSIC

Formation	Unit	Description
Tarong beds	Ʀr	Sandstone, shale, coal, conglomerate
Tarong beds	Ʀrk	Deeply weathered (kaolinised pallid zone) sandstone, shale, conglomerate
	Ʀg4	Grey to cream, medium-grained, equigranular, biotite granite
	Ʀg6	Pink, medium-grained, equigranular, biotite granite
Farquharson Granite	Ʀgq	Pale pinkish-grey, medium-grained, equigranular to inequigranular, hornblende-biotite granite
Toondahra Granite	Ʀgto	Pink to cream, strongly altered, very fine-grained biotite leucogranite, minor rhyolite and dacite
Toondahra Granite	Ʀgtof	Finely feldspar-phyric, very fine-grained, locally flow-banded leucogranite
Wooroonden Granodiorite	Ʀgrd	Grey, fine to medium-grained hornblende-biotite granodiorite, diorite and quartz diorite; local tonalite and gabbro
Canoe Creek Granite	Ʀgce	Pink to grey or cream, fine to locally medium-grained, inequigranular, slightly porphyritic biotite-hornblende granite to granodiorite
	Ʀgp	Quartz-feldspar porphyry intrusive
	Ʀgugd	Pink, fine to medium-grained, hornblende granodiorite and diorite
	Ʀid	Dark grey, fine-grained, intrusive dacite
	Ʀir	Massive, cream to pale grey, aphyric to sparsely porphyritic intrusive rhyolite; locally columnar-jointed or brecciated, locally rhyolitic tuff
	Ʀis	Massive, cream to pale grey, aphyric to sparsely porphyritic rhyolite (occurs as sheeted sills)
Aranbanga Volcanic Group	Ʀa	Andesitic to rhyolitic flows and volcaniclastics (including crystal-intermediate lithic lapilli tuff, crystal-rich tuff, pyroxene andesite, vesicular porphyritic andesite), minor polymictic conglomerate, volcanic breccia
Aranbanga Volcanic Group	Ʀaa	Andesitic volcanics; minor felsic volcanics
Aranbanga Volcanic Group	Ʀab	Aphyric or sparsely phyric basalt lava
Aranbanga Volcanic Group	Ʀad	Aphyric or sparsely phyric dacite lava; minor rhyolite
Aranbanga Volcanic Group	Ʀap	Feldspar-phyric basalt lava
Aranbanga Volcanic Group	Ʀar	Aphyric to sparsely phyric rhyolitic pyroclastic deposits and rare lava flows; volcanogenic sediments; rare andesitic and basaltic extrusives
Aranbanga Volcanic Group	Ʀas	Volcanic siltstone and shale
Undivided volcanics	Ʀv	Andesite, dacite and rhyolite, volcaniclastic sediments
Dangore Volcanics	Ʀvd	Massive, cream, rhyolitic ignimbrite; minor siltstone, shale

EARLY - MIDDLE TRIASSIC

Formation	Unit	Description
Toogoolawah Group: Neara Volcanics	Ʀtn	Volcaniclastic conglomerate; andesite, sandstone
Neara Volcanics	Ʀtncg	Andesitic to polymictic pebble to cobble conglomerate, andesitic lava and tuff, volcaniclastic arenite; subordinate siltstone and mudstone
Neara Volcanics	Ʀtna	Andesite lava, breccia, pyroclastic and epiclastic deposits; minor shale and siltstone
Neara Volcanics	Ʀtnb	Andesitic pebble to cobble conglomerate
Neara Volcanics	Ʀtns	Polymictic to rarely andesitic pebble to cobble conglomerate, volcaniclastic arenite, siltstone and shale
Esk Formation	Ʀte	Polymictic pebble to boulder conglomerate, feldspathic sandstone, shale, minor acid tuff
Gayndah Formation	Ʀtg	Polymictic pebble to cobble conglomerate; lithic labile, sublabile and quartzose sandstone, siltstone, shale
Buaraba granodiorite *	Ʀgbu	Granodiorite, leuco granodiorite, tonalite, quartz diorite
Champion Hills diorite *	Ʀgh	Diorite, gabbro
South Buaraba microdiorite *	Ʀgsb	Porphyritic very fine-grained microdiorite
Wilfred Creek Igneous Complex	Ʀgi	Mixed intrusions of dark grey, medium-grained, hornblende (biotite) diorite, quartz diorite, tonalite and rare gabbro; local monzogranite
Crows Nest Granite	Ʀgr	Biotite granite, adamellite
Crows Nest Granite	Ʀgrm	Microgranite
Eskdale Granodiorite	Ʀges	Granodiorite, diorite
Eskdale Granodiorite	Ʀges1	Altered coarse-grained chloritised hornblende-biotite granodiorite and granite, minor diorite and gabbro
Eskdale Granodiorite	Ʀges2	Coarse-grained hornblende-biotite granodiorite
Eskdale Granodiorite	Ʀges3	Fine to medium-grained granodiorite
Eskdale Granodiorite	Ʀges4	Hornblende-biotite granodiorite and diorite (pyroxene cores to hornblende crystals)
Eskdale Granodiorite	Ʀgesa	Aplitic intrusions (some with molybdenite mineralisation)
Eskdale Granodiorite	Ʀgesg	Diorite, gabbro
Eskdale Granodiorite	Ʀgesga	Altered diorite
Eskdale Granodiorite	Ʀgesgr	Pink granite
Eskdale Granodiorite	Ʀgesl	Leuco granodiorite

TRIASSIC

Formation	Unit	Description
	Ʀgn	Equigranular to porphyritic microdiorite; biotite-hornblende diorite
	Ʀgp	Porphyritic microgranite to granite
	Ʀg1	Altered, cream to pink aplitic granite
	Ʀg2	Cream to pale grey, fine to medium-grained, equigranular biotite-hornblende granite; rare mafic xenoliths
	Ʀg3	Grey, fine-grained, equigranular hornblende-biotite granodiorite
	Ʀg5	Dark grey, fine-grained, equigranular, biotite-rich granite with numerous biotite-rich, locally garnet-bearing mafic inclusions
	Ʀg	Acid intrusives (mainly granitoids)
Djuan Tonalite	Ʀgj	Grey to dark grey tonalite (common xenoliths)
Djuan Tonalite	Ʀgjh	Hornblendite
	Ʀia	Porphyritic andesite intrusions
	Ʀggd	Medium to coarse-grained gabbro, minor dolerite
Memerambi Granite	Ʀgme	Cream to grey, equigranular, hornblende-biotite granite

Note: Italicised letters (i,g) refer to intrusive units
* Informal name

PERMIAN - LATE TRIASSIC

Formation	Unit	Description
	▨	Hydrothermal alteration zone (age of alteration unknown)
Boondooma Igneous Complex	Ʀgbo	Cream to pale grey, fine to medium-grained, equigranular to coarsely porphyritic biotite-hornblende granite
Boondooma Igneous Complex	Ʀgbob	Fine to medium-grained, even-grained biotite granite
Boondooma Igneous Complex	Ʀgbok	Deeply weathered (kaolinised pallid zone) cream to pale grey, fine to medium-grained, equigranular to coarsely porphyritic biotite-hornblende granite
Boondooma Igneous Complex	Ʀgbo^m	Cream to pale grey, fresh, medium-grained, equigranular to coarsely porphyritic biotite-hornblende granite
Boondooma Igneous Complex	Ʀgbo^p	Pink, coarsely phyric (K-feldspar) biotite granite
Boondooma Igneous Complex	Ʀgbod	Dark grey medium to coarse-grained granodiorite, dark grey fine to medium-grained diorite
Boondooma Igneous Complex	Ʀgbop	Coarse-grained, quartz-feldspar pegmatite
Boondooma Igneous Complex	PƦgb	Granodiorite, adamellite, granite, tonalite, diorite, gabbro
Boondooma Igneous Complex	PƦgbk	Deeply weathered (kaolinised pallid zone), grey to pink granite
Boondooma Igneous Complex	PƦgbg	Grey to pink, medium to coarse, even-grained biotite-hornblende granite, minor quartz diorite
Boondooma Igneous Complex	PƦgbd	Dark grey, fine to coarse-grained equigranular tonalite to diorite, granodiorite, minor granite
Gilla Volcanics	PƦgl	Intermediate to acid volcanics
Gilla Volcanics	PƦgla	Dark grey aphyric to porphyritic andesite, minor rhyolite
Gilla Volcanics	PƦgld	Rhyodacite to dacite
Gilla Volcanics	PƦglr	Flow-banded rhyolite, rhyolitic breccia and conglomerate
Gilla Volcanics	PƦgls	Volcaniclastic sediments
Gilla Volcanics	PƦglt	Dacitic to rhyolitic tuff
Gilla Volcanics	PƦglp	Feldspar-phyric dacite
Wooroolin Granite	PƦgw	Pink, medium-grained biotite leucogranite (intruded by scattered aplite dykes)
Hivesville Granite	PƦgh	Pale grey to pink, medium to coarse-grained, equigranular to more commonly porphyritic (often with rapakivi textures), biotite (or more rarely biotite-hornblende) granite; locally intruded by or intermixed with numerous small microdiorite bodies
Melrose Igneous Complex	PƦgr	Grey, fine to medium (or locally coarse) grained, equigranular to porphyritic, biotite-(hornblende) granite and granodiorite; diorite and quartz microdiorite (scattered rafts of quartzite and laminated biotite gneiss)
Melrose Igneous Complex	PƦgg	Cream, fine to coarse-grained, banded gneissic leucogranite
Stuart River Granite	PƦgt	Cream to pink, fine to medium (or locally coarse) grained, even-grained biotite leucogranite (locally foliated and cut by mylonitic shear zones)
Stuart River Granite	PƦgtf	Intensely foliated fine to medium-grained pale grey to pink biotite leucogranite (locally with numerous rafts of mylonitised meta-sediment and amphibolite)
Kenewah Granodiorite	PƦgk	Light grey-pink and grey medium-grained granodiorite (porphyritic in part)
Taromeo Igneous Complex	Ʀgmd	Light to dark grey, fine to coarse quartz diorite, granodiorite, gabbro, diorite, tonalite? and microdiorite
Taromeo Igneous Complex	Ʀgmg	Pink-grey medium to coarse granite
Taromeo Igneous Complex	Ʀgmgd2	Light grey, grey-pink, medium-grained biotite-hornblende granodiorite, granite, quartz monzonite, tonalite and quartz diorite
Taromeo Igneous Complex	Ʀgmgd1	Light grey, medium-grained equigranular to sparsely porphyritic biotite hornblende granodiorite, minor tonalite
Taromeo Igneous Complex	PƦgm	Granodiorite, tonalite, diorite, gabbro, granite (locally weathered and decomposed)
Taromeo Igneous Complex	PƦgmgd2	Light grey, medium-grained biotite-hornblende granodiorite
Taromeo Igneous Complex	PƦgmgd1	Granodiorite (generally deeply weathered), minor tonalite
Taromeo Igneous Complex	PƦgmt	Grey, medium-grained tonalite, granodiorite and minor dark grey quartz diorite and diorite, rare quartz gabbro
	PƦg	Porphyritic biotite microgranite, granite, diorite, granodiorite, microgranite
	PƦs	Foliated serpentinite

PERMIAN

Formation	Unit	Description
Unnamed intrusions	Pgd	Leuco diorite, gabbro, microdiorite intrusions
Unnamed intrusions	Pgo	Dark grey, fine to medium-grained hypersthene diorite to gabbro
Unnamed intrusions	Pgu	Diorite, grey granodiorite (pyrite bearing in places)
Unnamed intrusions	Pi	Rhyolite
	Ps	Mudstone, siltstone, tuff, tuffaceous sediments, pebble to cobble conglomerate
	Psd	Mudstone, siltstone, tuff, tuffaceous sediments, pebble to cobble conglomerate intruded by microdiorite and gabbro dykes
Cressbrook Creek Group: Buaraba Mudstone	Prb	Mudstone, arenite, conglomerate, andesite, basalt, tuffaceous sediments; locally bioturbated; rare marine fossils and plant fragments
Buaraba Mudstone	Prbaa	Mudstone, arenite, conglomerate, andesite, basalt, tuffaceous sediments; locally bioturbated; rare marine fossils and plant fragments - (argillic alteration)
Buaraba Mudstone	Prbsa	Mudstone, arenite, conglomerate, andesite, basalt, tuffaceous sediments; locally bioturbated; rare marine fossils and plant fragments - (silicic alteration)
Box Gully Formation	Prx	Conglomerate, arenite, shale, andesitic volcanics; rare plant fragments
Box Gully Formation	Prxh	Conglomerate, arenite, shale, andesitic volcanics; rare plant fragments - (hornfelsed)
Biarraville Formation	Prl	Arenite, siltstone, mudstone, rhyolite, limestone, volcanic conglomerate
Biarraville Formation	Prlh	Chert, arenite, siltstone, mudstone, rhyolite, limestone, volcanic conglomerate - (hornfelsed)
Hampton Road Rhyolite	Prh	Acid volcanics, chert, conglomerate
Hampton Road Rhyolite	Prhsa	Acid volcanics - (silicic alteration)
Hampton Road Rhyolite	Prhg	Acid volcanics, chert, conglomerate - (numerous gabbro and dolerite dykes and stocks)
Pinecliffe Formation	Prp	Chert, mudstone, arenite, conglomerate, andesite, basalt; rare marine fossils
Woolshed Mountain Granodiorite	Pgwm	Light grey, medium-grained granodiorite

CARBONIFEROUS - PERMIAN

Formation	Unit	Description
Mount Cross Igneous Complex	CPm	Gabbroic intrusions, volcaniclastics (gabbro-derived sediments)

DEVONIAN - CARBONIFEROUS

Formation	Unit	Description
Bjelke Petersen beds	Cb	Mudstone, shale and silicified siltstone (chert?) containing locally sheared basic meta-volcanic lenses and scattered limestone bodies
Bjelke Petersen beds	Cbl	Variably recrystallised, poorly fossiliferous limestone
Mountefontein Metamorphics	Ct	Thinly-interlayered biotite gneiss and fine schist, with scattered biotite leucogranite sills and migmatitic veins; thick horizons of haematitic meta-chert
Chahpingah Meta-Igneous Complex	Cc	Cream to grey, fine to medium-grained, strongly foliated, banded granitic to granodioritic biotite gneiss, locally with garnet and/or cordierite; numerous quartz veins, pegmatite (and locally granite) veins, sills and dykes; small areas of mica schist
Sugarloaf Metamorphics	DCo	Slate, spotted hornfelsed slate, phyllite, quartzite, schist, amphibolite
Sugarloaf Metamorphics	DCov	Basic meta-volcanics, amphibolite, meta-arenite, schist, phyllite, slate
Fifer Creek Metamorphics	DCi	Phyllite and meta-arenite with minor quartzite, gneiss and migmatite; local shale, siltstone, greywacke, chert
Fifer Creek Metamorphics	DCic	Grey, cream or red, variably recrystallised, thin-bedded chert and meta-chert, subordinate pelitic meta-sediments
Maronghi Creek beds	DCm	Mudstone, shale, arenite, chert, jasper, acid to basic metavolcanics
Maronghi Creek beds	DCmmc	Thinly-bedded mudstone and red chert
Maronghi Creek beds	DCmd	Mudstone, shale, arenite, chert, jasper, phyllitic sediments, volcanics, greenstone, minor andesite (in places intruded by numerous microdioritic dykes)
Maronghi Creek beds	DCmh	Hornfelsed mudstone, shale, arenite, chert, jasper, phyllitic sediments
Maronghi Creek beds	DCms	Epidote-chlorite schist
Maronghi Creek beds	DCmv	Altered spilitic volcanics, metabasalt, pillow basalt
Maronghi Creek beds	DCmw^s	Mottled weathered mudstone, shale, arenite, chert, jasper, phyllitic sediments (locally silicified)
Rockhampton Group	DCr	Thin to medium-bedded siltstone and mudstone, thick-bedded quartz, intermediate to lithic and volcanolithic arenite and minor conglomerate; andesitic tuff and rare rhyolitic tuff; rare sandy limestone (local shear zones with mylonite, phyllite and fine schist)
Alice Creek beds	DCc	Siltstone, arenite, conglomerate, rare plant fossils (locally sheared)
Alice Creek beds	DCcl	Poorly fossiliferous limestone

MAGNETIC INTERPRETATION

Unit	Description
-HH	Relatively high magnetic response - normally polarised strongly magnetic unit (eg Ʀgbo-HH)
-LL	Relatively low magnetic response - normally polarised magnetic unit (eg Jbm-LL)
-LH	Relatively low magnetic response - reversely polarised magnetic unit (eg PƦgt-LH)
-LU	Relatively low magnetic response - unknown magnetic properties (eg Tm?-LU)