

QUATERNARY

- Qa Clay, silt, sand, floodplain alluvium
Qd1 Silt, clay, silt, (heavy) deposits in alluvial plain
Qm Sand, silt, clay, coral plain, meander-belt deposits
Qol Old alluvium
Qn1 Sand, silt, clay, gravel, many active stream channel deposits
Qn2 Sand, silt, clay, gravel, sand, red mud and colluvial deposits
Qc Clay, silt, sand, gravel, soil, water residual and colluvial deposits

LATE TERTIARY - QUATERNARY

- TQ Clay, silt, sand, gravel, soil, water residual and colluvial deposits

JURASSIC

- Jm Fine to medium-grained, lithologically stable and substable sandstones, siltstones, shales, minor coal, coarser-grained and pebbly sandstone

EARLY TRIASSIC

- Tp1 Low grey, fine-grained, highly porphyritic (blende-kriste) hornblende diorite, with numerous phenocrysts of plagioclase (> 1.5 cm) and brown hornblende (< 0.5 mm)
Tg1 Pale pink to pale brownish grey, very fine-grained groundmass, highly porphyritic (blende-kriste) to megacrystic hornblende monzonite, with well-developed coarse-grained monzonite cores
Tg2 Pale pink to pink, or reddish brown, medium-grained, even-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; minor highly porphyritic, megacrystic biotite hornblende monzonite; moderate magmatic response
Tg3 Medium to dark grey, medium-grained, even-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Tg4 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg5 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg6 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg7 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg8 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg9 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts
Tg10 Pale pink to pink, or reddish brown, medium to fine-grained, moderately porphyritic (blende-kriste) biotite monzonite, with well-developed (up to 1 cm) coarse-grained monzonite cores; quartz, biotite, and leucite (locally) phenocrysts

LATE PERMAN - EARLY TRIASSIC

- Pt1 Grey, medium-grained, uneven-grained (blende-kriste) biotite monzonite to quartz diorite with numerous inclusions of megacryst and schist as well as rare granite
Pt2 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt3 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt4 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt5 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt6 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt7 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt8 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt9 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response
Pt10 Dark grey to black, medium-grained, uneven-grained to slightly porphyritic, leucocratic biotite monzonite to syenogranite; moderate magmatic response

EARLY PERMAN

- P1 Lithic pebbly arenite; minor conglomerate; locally fossiliferous
P2 Grey, foliated, fine-grained granitic meta-siltstone to rhyolite (metasedimented lava flows and gneissic sheets)
P3 Dark grey to black, indurated mudstone, siltstone, mudstone; locally fossiliferous; extensively recrystallised (hornblende) in places
P4 Lithic arenite, mudstone, siltstone; rare silt and conglomerate; locally fossiliferous
P5 Conglomerate, locally pebbly sandstone, and siltstone; rhyolite to locally diolite, breccia, tuff and lava; minor calcareous arenite and limestone; locally fossiliferous
P6 Lithic (locally pebbly) arenite, conglomerate, and mudstone; rare silt and clay
P7 Lithic, locally pebbly arenite, clay to matrix supported sandy to muddy conglomerate, locally pebbly mudstone; limestone; rare siltstone and basalt
P8 Limestone

CARBONIFEROUS

- C1 Thin to thick bedded, volcanoclastic arenite, siltstone, mudstone, and shale; local phyllite, sporadic lenses of Jasper, limestone and mafic volcanic, lava conglomerate; low to moderate magmatic response
C2 Thin to thick bedded, volcanoclastic arenite, siltstone, mudstone, and shale; local phyllite, sporadic lenses of Jasper, limestone and mafic volcanic, lava conglomerate; low to moderate magmatic response
C3 Thin to thick bedded, volcanoclastic arenite, siltstone, mudstone, and shale; local phyllite, sporadic lenses of Jasper, limestone and mafic volcanic, lava conglomerate; low to moderate magmatic response
C4 Thin to thick bedded, volcanoclastic arenite, siltstone, mudstone, and shale; local phyllite, sporadic lenses of Jasper, limestone and mafic volcanic, lava conglomerate; low to moderate magmatic response
C5 Thin to thick bedded, volcanoclastic arenite, siltstone, mudstone, and shale; local phyllite, sporadic lenses of Jasper, limestone and mafic volcanic, lava conglomerate; low to moderate magmatic response

SILURIAN TO DEVONIAN

- S1 Medium to coarse-grained, massive to blocky, calcareous arenite, siltstone, mudstone, and shale; locally fossiliferous; moderate magmatic response
S2 Medium to coarse-grained, massive to blocky, calcareous arenite, siltstone, mudstone, and shale; locally fossiliferous; moderate magmatic response
S3 Medium to coarse-grained, massive to blocky, calcareous arenite, siltstone, mudstone, and shale; locally fossiliferous; moderate magmatic response
S4 Medium to coarse-grained, massive to blocky, calcareous arenite, siltstone, mudstone, and shale; locally fossiliferous; moderate magmatic response
S5 Medium to coarse-grained, massive to blocky, calcareous arenite, siltstone, mudstone, and shale; locally fossiliferous; moderate magmatic response

INDEX TO MINES AND PROSPECTS

Table listing various mines and prospects with their names, locations, and status. Includes entries like '1. Liddell Mine', '2. W. S. S. Mine', etc.

MINING SYMBOLS

- Mine, abandoned
Mine, active
Proposed, abandoned
Proposed, active
Alluvial workings, abandoned
Alluvial workings, active

FIELD OBSERVATION POINTS

- Observation point
Observation point, abandoned

GEOLOGICAL SYMBOLS

- Geological boundary
Fault
Fault showing relative displacement up, down
Strike and dip of unconformity
Strike and dip of unconformity, angular unconformity
Strike and dip of unconformity, non-angular unconformity
Strike and dip of unconformity, angular unconformity, non-angular unconformity
Strike and dip of unconformity, angular unconformity, non-angular unconformity, angular unconformity, non-angular unconformity

TOPOGRAPHICAL AND CULTURAL FEATURES

- Highway
Secondary road
Minor road
Vehicle track
Railway station
State border
Homestead
Building, small settlement
Topographic station

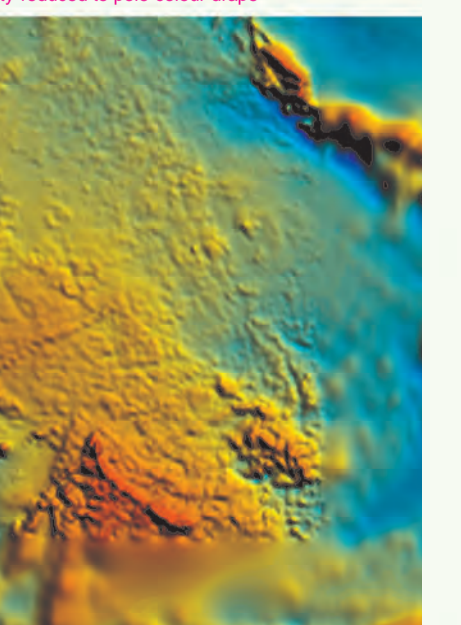
MAGNETIC INTERPRETATION

Magnetic interpretation to check magnetic response against geological features. Areas labelled in magenta indicate the extent of magnetic units, or anomalies associated with concealed magnetic units, interpreted from magnetic data.

RADIOMETRIC IMAGE



MAGNETIC IMAGE

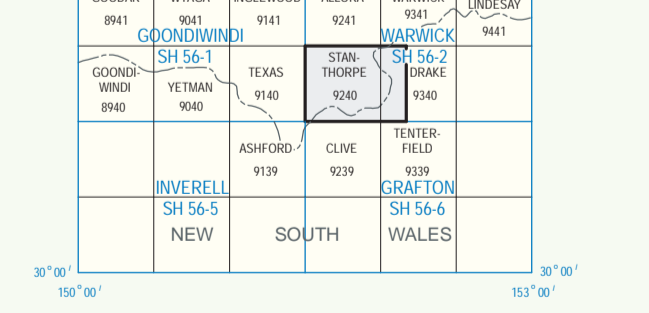


MAGNETIC IMAGE

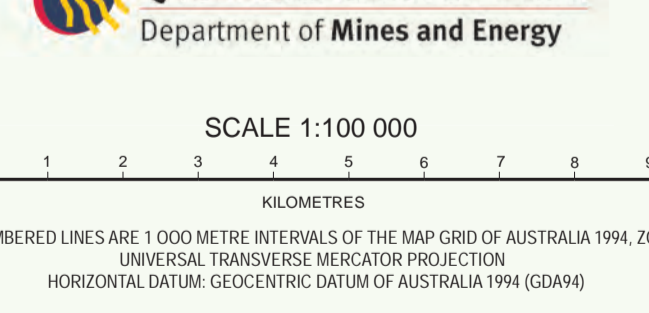


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INDEX TO 1:100 000 MAPS



Queensland Government Department of Mines and Energy

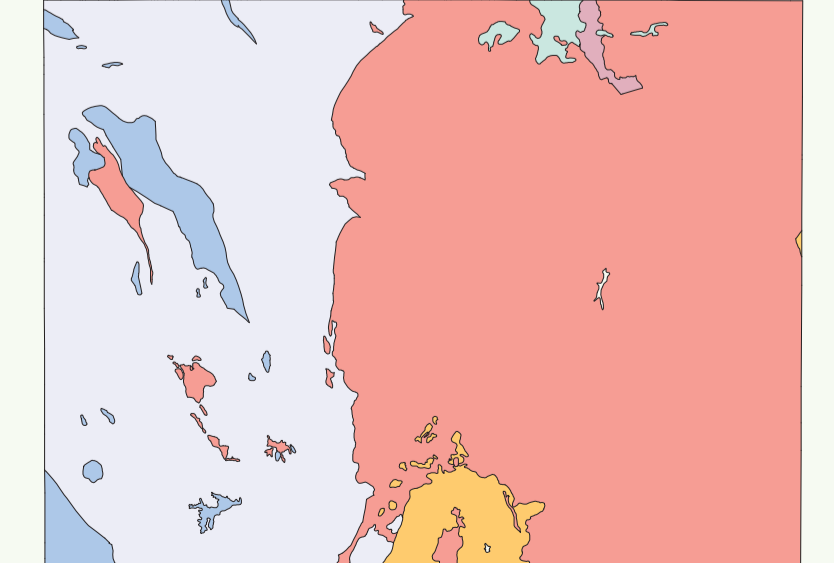


Geology 1997-99 by M. Parsons, B.Sc. (University of New England)...

Mineral composition mapping 1995 by T.J. Dennis and P.E. Barnes (QGS)...

Compiled by P.L. Dunne, R.L. Bullfinch, D.J. Purdy and G.B. Plance...

STRUCTURAL ELEMENTS



JURASSIC: Clarence-Monson Basin, Early Permian-Early Triassic, Handsworth Province, New England Batholith.

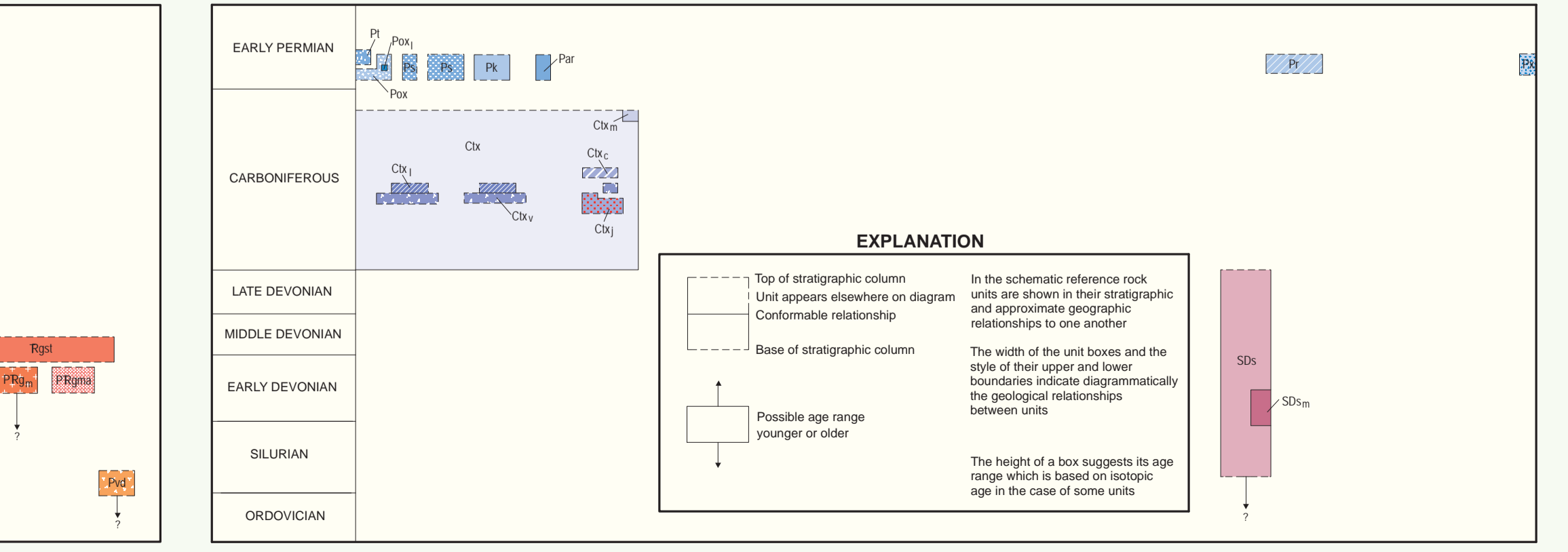
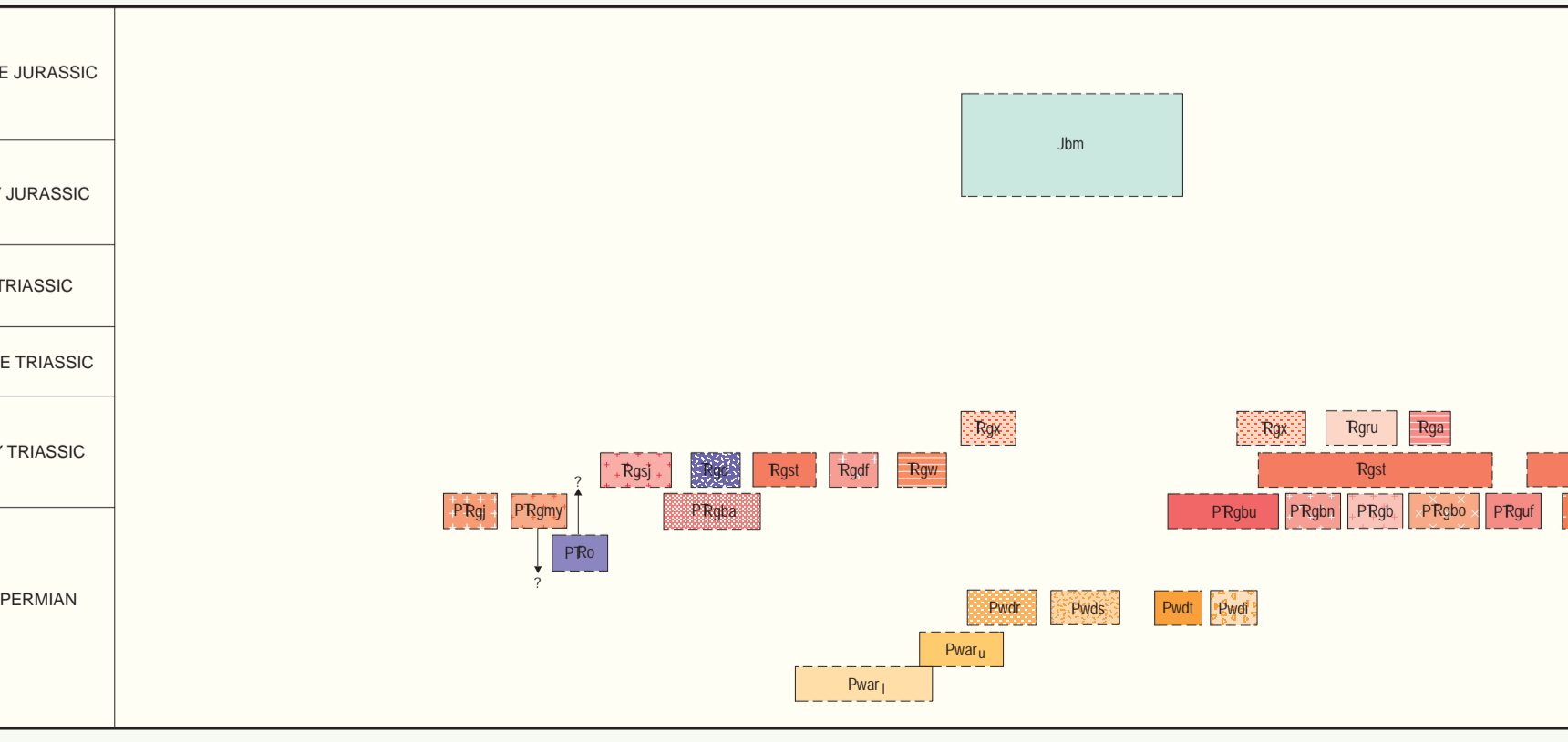
PERMAN: Star Spur Subprovince.

CARBONIFEROUS: Tazewell Subprovince, Silurian-Devonian, Devonian Province, Silurian-Devonian, Devonian Province.

ORDOVICIAN.

Explaining the symbols used in the structural elements map.

Explaining the symbols used in the structural elements map.



Explaining the symbols used in the geological column.

Explaining the symbols used in the geological column.

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STANTHORPE SPECIAL

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