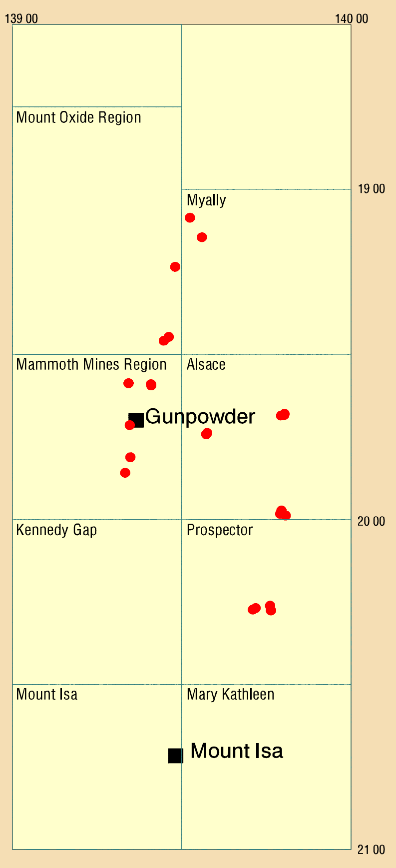


AMIRA P552 PROJECT

Lake Julius Composite

(LJ/00/01, LJ/00/02)
Scale: 1:2500

EASTING: 366073

NORTHING: 7757074

DATA TYPE: Measured Section

MAP SHEET: Prospector

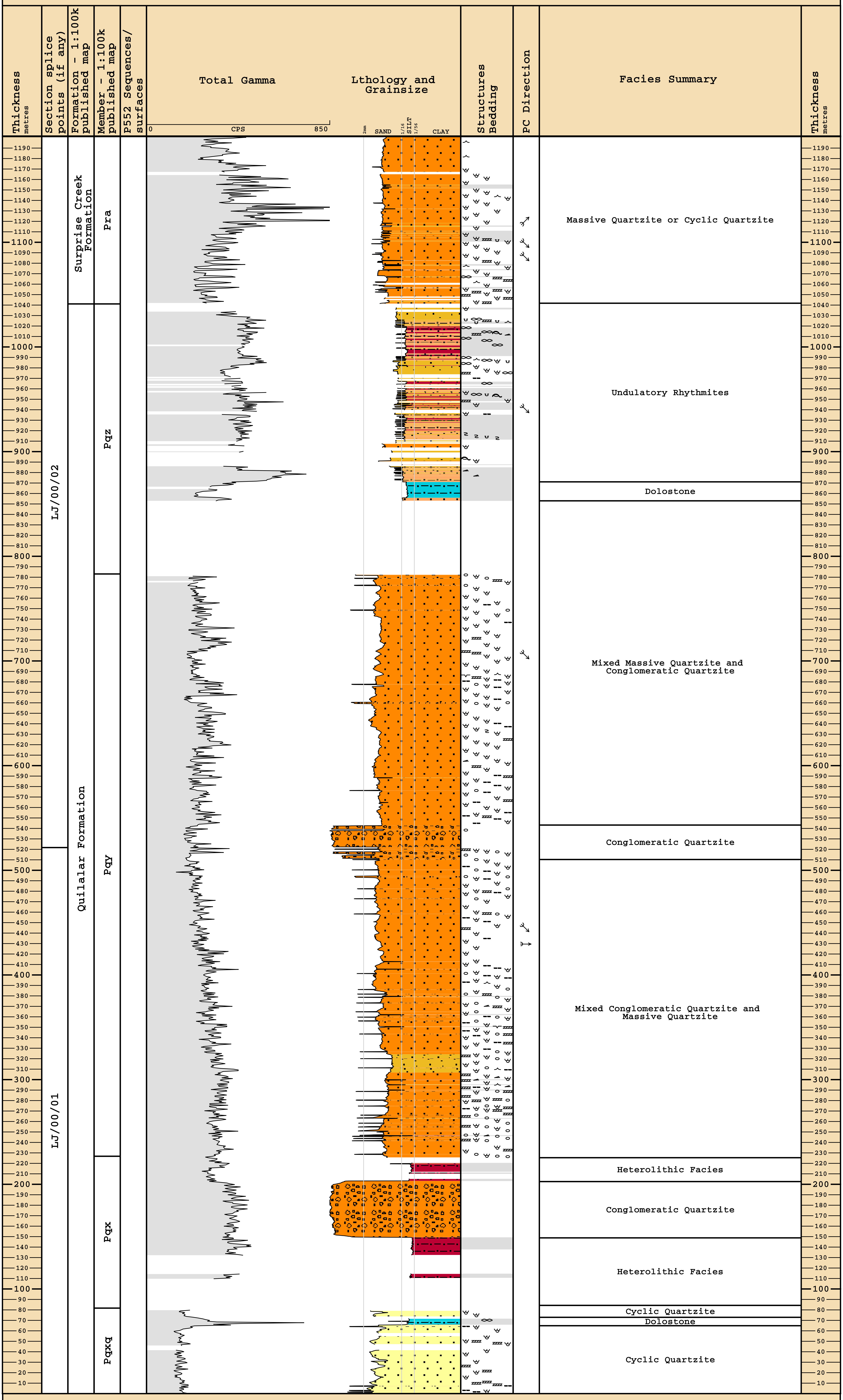
GEOLOGY: P Blake and J Domagala

GEOLOG COMPILATION: KW Barnett

AUSTRALIA

GEOSCIENCE AUSTRALIA

Queensland Government
Natural Resources and Mines



Sedimentary Structures and Bedding

BEDDING

▨	Laminated (<1cm)
▨	Thin bedded (1–10cm)
☐	Medium bedded (10–30cm)
☐	Thick bedded (>30cm)

SEDIMENTARY STRUCTURES

Planar X–stratification
Large scale trough X–stratification
Small scale trough X–stratification
Hummocky cross–stratification
Pinch & swell/wavy bedding
Flaser/lenticular bedding
Wispy lamination
Large asymmetrical ripple
Small asymmetrical ripple

Symmetrical ripple
Normally graded bed
Inversely graded bed
Fining–upward trend
Coarsening–upward trend
Scour and fill
Sole marking
Slumping

Contorted bedding
Flute cast
Gutter cast/microchannel
Load cast
Synaresis crack
Dewatering structure
Teepee
Desiccation crack
Sedimentary breccia

Sedimentary concretion
Palaeocurrent azimuth (east)
Palaeocurrent azimuth (north)
Palaeocurrent azimuth (south)
Palaeocurrent azimuth (west)
Palaeocurrent azimuth (NE)
Palaeocurrent azimuth (NW)
Palaeocurrent azimuth (SE)
Palaeocurrent azimuth (SW)

Palaeocurrent trend (north–south)
Palaeocurrent trend (east–west)
Halite cast/mould
Crystal pseudomorph
Cauliflower chert
Intraclast
Pebbles
Imbricated clasts
Rosette

Oolite/oolitic
Peloid/peloidal
Small domal stromatolite
Large domal stromatolite
'Organ–pipe' stromatolite
Small columnar stromatolite
Large columnar stromatolite
Conical stromatolite
Stratiform stromatolite

▷	Fenestrae
F	Fault
■	Pyrite
Cpy	Chalcopyrite
Gl	Glauconite
Ph	Phosphate
Py	Pyrite
Sp	Sphalerite
Gn	Galena

Lithology Legend

	SILICICLASTICS QUARTZO–FELDSPATHIC	SILICICLASTICS LITHIC	SILICICLASTICS TUFFACEOUS	SILICICLASTICS CARBONACEOUS (VARIABLY DOLOMITIC)	DOLOMITIC SILICICLASTICS	CARBONATES	
Conglomerate granule to boulder	▨	▨	▨	▨	▨	▨	Dolorudite granule to boulder
Sandstone medium to very coarse	▨	▨	▨	▨	▨	▨	Dolarenite medium to very coarse
Sandstone very fine to fine	▨	▨	▨	▨	▨	▨	Dolarenite very fine to fine
Sandy siltstone	▨	▨	▨	▨	▨	▨	Silty dolarenite
Siltstone mineralogy undifferentiated	▨	▨	▨	▨	▨	▨	Dolosiltite
Shale mineralogy undifferentiated	▨	▨	▨	■	▨	▨	Dololutite

TUFF	CHERT	CRYSTALLINE CARBONATES	BRECCIA	IGNEOUS	METAMORPHIC
▨	▨	▨	▨	▨	▨

Sequence Hierarchy

F*	Approximate location of significant flooding or deepening.
S*	Approximate location of significant erosion surface (?Sequence Boundary).

Copies of this figure may be obtained as a CD ROM product, GA Record 2002/03 from:
Geoscience Australia Sales Centre
GPO Box 378, Canberra City, ACT 2601
Phone 02–62499519, Facsimile 02–62499982.