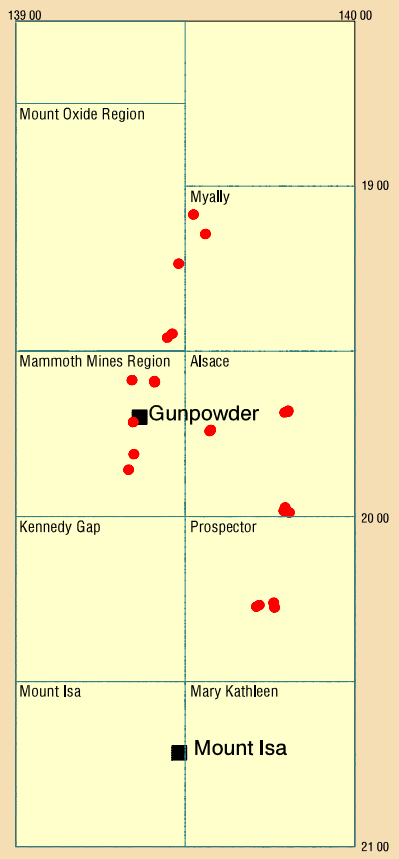


AMIRA P552 PROJECT

PS/00/02

Scale: 1:1000

EASTING: 326177

NORTHING: 7802562

DATA TYPE: Measured Section

MAP SHEET: Mammoth Mines

LOCATION: 20km South of Mine

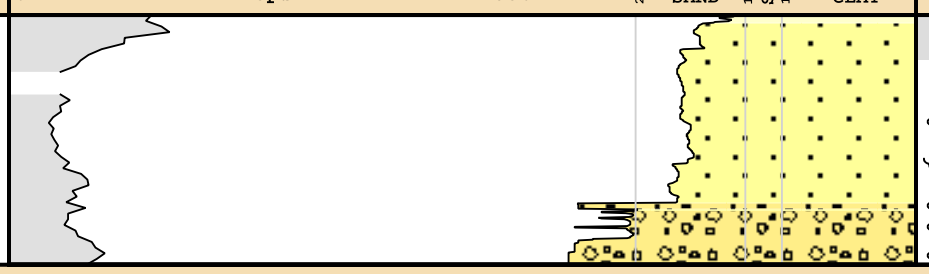
GEOLOGY: MJ Jackson and PN Southgate

GEOLOG COMPILATION: KW Barnett

AUSTRALIA

GEOSCIENCE AUSTRALIA

Queensland Government Natural Resources and Mines

Thickness metres	Formation on 1:100K published map	Member on 1:100K published map	Total Gamma (0 cps 850)	Lithology and Grainsize (2mm, SAND, 1/16, SILT, 1/56, CLAY)	Stuctures/ Bedding	PC direction	Outcrop description and other notes	Thickness metres
30 20 10	Torpedo Creek Quartzite						8 to 33m: Fining–up succession of medium–coarse grained (base) to fine grained (top), well sorted quartz arenite. Thin pebble bed at base, scattered small pebbles in middle. Bedding mostly 10 to 50 cms, but parrallel laminated at top; 10–20 cm trough cross beds common. Micaceous siltstone at top. 0 to 8m: Interbedded clast–supported pebble conglomerate and pebbly medium to very coarse grained sandstone. Massive to crudely flat bedded. Clasts dominated by quartzite and red silicified sandstones. Basal erosion surface not exposed.	30 20 10

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).

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