

129.00

148.00

19.00

20.00

21.00

Mount Oxide Region

Wyalyk

Mammoth Mines Region

Alsace

Gunpowder

Kennedy Gap

Prospector

Mount Isa

Mary Kathleen

Mount Isa

AMIRA

P552 PROJECT

Crystal Creek

96/CY/01, 96/CY/02, 96/CY/03, 96/CY/04

Scale: 1:2500

EASTING: 347133

NORTHING: 7788466

DATA TYPE: Measured Section

MAP SHEET: Alsace

GEOLOGY: J Domagala & P Southgate

GEOLOG COMPILATION: K Barnett, J Domagala, I Zeillinger



AUSTRALIA



GEOSCIENCE AUSTRALIA



Queensland Government



Natural Resources and Mines

Thickness metres	Section splice points (if any)	Formation - 1:100k published map	Member - 1:100k published map	P552 Sequences / surfaces	Total Gamma	Lithology and Grainsize	Structures Bedding	PC Direction	Facies Summary	Thickness metres
1830	96/CY/04	Native Bee siltstone							Dolomitic Flat Rhythmites	1830
1820										1820
1810										1810
1800										1800
1790										1790
1780										1780
1770										1770
1760										1760
1750										1750
1740										1740
1730	96/CY/03	Breakaway Shale							Predominantly Flat Rhythmites	1730
1720										1720
1710										1710
1700										1700
1690										1690
1680										1680
1670										1670
1660										1660
1650										1650
1640										1640
1630	96/CY/02	Moondarra siltstone							Flat to Undulatory Rhythmites	1630
1620										1620
1610										1610
1600										1600
1590										1590
1580										1580
1570										1570
1560										1560
1550										1550
1540										1540
1530	96/CY/01	Warrina Park Quartzite							Massive Quartzite (Conglomeratic Quartzite at base)	1530
1520										1520
1510										1510
1500										1500
1490										1490
1480										1480
1470										1470
1460										1460
1450										1450
1440										1440
1430		Surprise Creek Formation							Flat to Undulatory Rhythmites	1430
1420										1420
1410										1410
1400										1400
1390										1390
1380										1380
1370										1370
1360										1360
1350										1350
1340										1340
1330									Flat to Undulatory Rhythmites	1330
1320										1320
1310										1310
1300										1300
1290										1290
1280										1280
1270										1270
1260										1260
1250										1250
1240										1240
1230									Flat to Undulatory Rhythmites	1230
1220										1220
1210										1210
1200										1200
1190										1190
1180										1180
1170										1170
1160										1160
1150										1150
1140										1140
1130									Flat to Undulatory Rhythmites	1130
1120										1120
1110										1110
1100										1100
1090										1090
1080										1080
1070										1070
1060										1060
1050										1050
1040										1040
1030									Flat to Undulatory Rhythmites	1030
1020										1020
1010										1010
1000										1000
990										990
980										980
970										970
960										960
950										950
940										940
930									Flat to Undulatory Rhythmites	930
920										920
910										910
900										900
890										890
880										880
870										870
860										860
850										850
840										840
830									Flat to Undulatory Rhythmites	830
820										820
810										810
800										800
790										790
780										780
770										770
760										760
750										750
740										740
730									Flat to Undulatory Rhythmites	730
720										720
710										710
700										700
690										690
680										680
670										670
660										660
650										650
640										640
630									Flat to Undulatory Rhythmites	630
620										620
610										610
600										600
590										590
580										580
570										570
560										560
550										550
540										540
530									Flat to Undulatory Rhythmites	530
520										520
510										510
500										500
490										490
480										480
470										470
460										460
450										450
440										440
430									Flat to Undulatory Rhythmites	430
420										420
410										410
400										400
390										390
380										380
370										370
360										360
350										350
340										340
330									Flat to Undulatory Rhythmites	330
320										320
310										310
300										300
290										290
280										280
270										270
260										260
250										250
240										240
230									Flat to Undulatory Rhythmites	230
220										220
210										210
200										200
190										190
180										180
170										170
160										160
150										150
140										140
130									Flat to Undulatory Rhythmites	130
120										120
110										110
100										100
90										90
80										80
70										70
60										60
50										50
40										40
30									Flat to Undulatory Rhythmites	30
20										20
10										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

Flase/lenticular bedding

Wavy 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

Tepee

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

Imbricated clasts

Rosette

Oolite/colicite

Peloid/peloidal

Small domal stromatolite

Large domal stromatolite

'Organ-pipe' stromatolite

Small columnar stromatolite

Large columnar stromatolite

Conical stromatolite

Stratiform stromatolite

Fenestrae

Fault

Pyrite

Chalcocypite

Glaucconite

Phosphate

Pyrite

Sphalerite

Galeria

Lithology Legend

Siliciclastics

Quartz-feldspathic

Sandstone medium to very coarse

Sandstone very fine to fine

Sandy siltstone

Siltstone mineralogy undifferentiated

Shale mineralogy undifferentiated

Tuff

Siliciclastics

Lithic

Sandstone medium to very coarse

Sandstone very fine to fine

Sandy siltstone

Siltstone mineralogy undifferentiated

Shale mineralogy undifferentiated

Chert

Siliciclastics

Tuffaceous

Sandstone medium to very coarse

Sandstone very fine to fine

Sandy siltstone

Siltstone mineralogy undifferentiated

Shale mineralogy undifferentiated

Crystalline carbonates

Siliciclastics

Carbonaceous (variably dolomitic)

Sandstone medium to very coarse

Sandstone very fine to fine

Sandy siltstone

Siltstone mineralogy undifferentiated

Shale mineralogy undifferentiated

Breccia

Dolomitic siliciclastics

Sandstone medium to very coarse

Sandstone very fine to fine

Sandy siltstone

Siltstone mineralogy undifferentiated

Shale mineralogy undifferentiated

Igneous

Carbonates

Dolomite granule to boulder

Dolomite medium to very coarse

Dolomite very fine to fine

Silty dolomite

Dolostone

Dolomite

Metamorphic

Sequence Hierarchy

F*

S*

Approximate location of significant flooding or deepening.

Approximate location of significant erosion surface (?sequence boundary).

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