

The OreFull Mineral Texture Atlases Volume 41-1 : Stratigraphic Column through massive altered Mineralized Sequence.

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GENERALIZED "ORE ZONE" STRATIGRAPHY - SOUTHERN STKW. ZONE, BOORARA

LITHOLOGY

BLACK FLAG SEDIMENTS

MIXED SEDIMENT - FINE DOLERITE -
VERY FINE DOLERITE - SPOTTED
ARGILLITE COMPLEX UNIT 1

FINE DOLERITE TO BASALT
COMPLEX UNIT 2

LAYERED TO MIXED MEDIUM
TO COARSE DOLERITE - FINE GABBRO
(Abundant leucoxene)
Erratic quartz phenocrysts.

UNIT 3

FINE TO MEDIUM DOLERITE
(transitional to basaltic)
AND FELSIC SPOTTED DOLERITE

UNIT 4

FINE TO VERY FINE DOLERITE
TO COARSE BASALT.

UNIT 5

(Usually massively "bleached")
and microfractured.
Homogeneous, fine, equant, leucoxene

MASSIVELY BLEACHED, COARSELY
LEUCOXENATED BASIC - ULTRA
BASIC?

UNIT 6

HEAVILY CARBONATED
KOMATIITIC ULTRAMAFIC

UNIT 7

SHEARED AND MORE DEFORMED -
ALTERED ULTRAMAFIC

DISTINGUISHING FEATURES

Argillaceous and tuffaceous sediment, Black shale - chert (Agglomerates etc)
Carbonated up to 20m from contact, fuschite ± quartz veins up to 10m from contact
Quartz bearing (10-15% md) 10-25mm feld. md or fine grained dolerite - usually foliated

Spotted to sl. carbonaceous argillite.
Contorted, carbonated black shale/chert - pyritic
Basaltic mafic - up to 1% visible leucoxene.

Fine Dolerite; v.f. cent. spots & units, 10-15% x 1/2 to 1mm TI-nug., feldspar 2-3mm, but skeletal patches up
to 4 to 12mm (8 to 18:1 elongation ratios),
Fine Mafic - exsolved magnetite networks.
Basalt
Fine Dolerite - 8 to 20% equant f. leuc.

M-C carbonate-pyroxene 5 to 15mm (5 to 8:1).
60-80% feldspar - up to 10mm (twinned, zoned, stubby to skeletal - wste. grm. saussuritized)
M-F 1-3mm x 10% qtz., 2-3 (6mm) exsolved sk. leucox.

M
M-C 6-7cm bands of 20% md leucox.
C-grained
Up to or more than, 5 bands of upward fining cumulate(?) leucocratic ed.

M-F
M 2-3mm x 10% qtz., 1-2mm equant x 15% leuc., 2-4mm feldspar

M to C
4-6mm (10mm) x 5-8% sk. leucox, patches up to 12mm } 0.3 to 1m thick.
C-grained 20% x 1-5mm quartz, 27x 4mm carbonate/pyroxene
often sharp contact

f-m. - 10-20% leucox. x 1-3mm
- 5% qtz.
x.f.f. 1-2mm leucox.
Felsic spotted (spots up to 4-6mm).

Massive bleached or chloritized mafic with - 5 to 20% x 1mm, equant leucoxene, and TI-nug.
- homogeneous and foliated where unbleached
- no quartz phenocrysts
- opagves commonly bl. stretched (oriented to 2-3mm)
- 2mm chl. spots near opagves in some bands

Subzone
- S1-S2 foliation?
- weak to incipient fuschitic chlorite developing
- sulphides (mainly pyrite) increasing to 7-15% in
flecks and black hairline fractures.
- two carbonates developing - 1-2mm brown dis. silicate
wite-grey non-reactive matrix
- quartz veins generally thin and sporadic and disproportionate
to attention and sulphide

Very Fine Dolerite
Black chlorite or ss fuschitic chl. shears.

contact sharp, chilled or sheared.
Apparently as above but with distinctive 6 to 10mm skeletal leucoxenes (often grey).

- stretched leucoxene in places.
- black pyrite ±/or chlorite flecks, whisps, and
dendrites in regular chaotic pattern?
- weak to 40% foliation
- green to 2mm chl. spots in some zones
- prominent and common fuschitic chlorite alteration
- incipient and common fuschitic chlorite alteration
- tight thin silic. veins ± sporadic.

Subzone softer, more microsheared (serp, talc. - fuschite fracturing) equant.
Argillite, with 1-2mm carbonate-pyrite cored spots.

Very heavily carbonated chlorite-talc-ultramafic.
- 40% 3 to 5mm brown dis. carbonate
- 1-2% S2 stretched sparse leucoxene
Carbonate-quartz veins.
- distinct decrease in bleaching and increase in chlorite
quartz veins and shearing.
- 20-30% 1-2m dis. carbonate

Intensely sheared ultramafic - hmg B.

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