

QUEENSTOWN AREA

EXPLORATION DEPARTMENT, MT. LYELL MINING CO. LTD.

LEGEND

SEDIMENTARY ROCKS

- QUATERNARY
 Q Talus, alluvium etc.
 Qp Moraine with varved clays.

- PERMIAN
 Pt Tillite of Mt. Sedgwick.

- DEVONIAN
 Db Bell Shale:- dark shale often alternating with sandstone bands.
 Dbs Muddy sandstones & sandy shales.

- ELDON GROUP
 Silurian
 Sf Florence Quartzite:- fine grained & grey-brown.
 Sk Keel:- sandy shale & shaly sandstone with locally a major quartzite & shaly limestone.
 Sa Amber Shales:- blue-grey shales with limestone lenses.
 Sc Cratty Quartzite:- grey, medium to coarse grained, locally split by shales.
 S Undifferentiated:- mainly quartzite & alternating quartzites & shales of the Dublin Barril area.

- JUNEE GROUP
 Ordovician
 Og Gordon Limestone, dark blue-grey, argillaceous.
 Occ Caroline Creek floggy sandstones & shales
 Oou Upper Owen Conglomerate.
 Oom Middle Owen Conglomerate.
 Ool Lower Owen Conglomerate.
 Qjc Jukes Conglomerate.

- DUNDAS GROUP
 Cambrian
 c Greywacke conglomerate, *agglomerate*.
 s Lynch siltstone, finely banded siltstones. Grey sandstone.
 v Battery Volcanics with lavas, tuffs & agglomerates
 qp Quartz felspar porphyry.
 fp felspar porphyry mainly in albitised area, west of Cape Horn.
 hb Horn blende felspar porphyry.
 py Pyroxene felspar porphyry.
 Undifferentiated:- variable sediments & volcanics.

- lam Lamprophyre dykes
 dl Dolerite of Mt. Sedgwick.

GEOLOGICAL BOUNDARIES

- OBSERVED
 APPROXIMATE
 DOUBTFUL

FAULTS

- OBSERVED
 APPROXIMATE
 DOUBTFUL

BEDDING

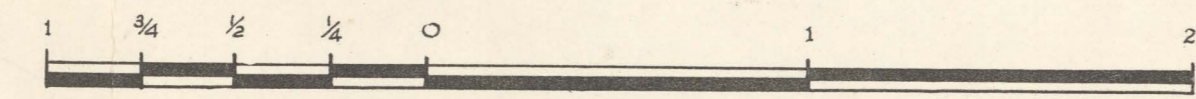
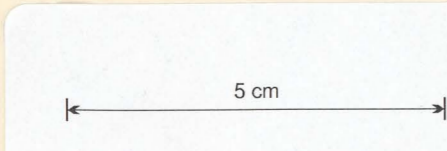
- STRIKE & DIP
 VERTICAL
 HORIZONTAL
 OVERTURNED
 PITCH
 SCHISTOSITY
 CLEAVAGE
 SYNCLINE
 ANTICLINE

- MAIN ROAD
 VEHICULAR TRACK
 FOOT TRACK
 TRIANGULATION STATION
 RAILWAY OR TRAMWAY
 RIVER OR CREEK
 QUARRY
 MINE FOR COPPER
 UNLESS MARKED - GOLD
 BARYTES
 GALENA
 ASBESTOS
 HEMATITE

Magnetic variation:- 10° E.
 Base maps by courtesy of the Hydro-Electric Commission, Tasmania. Origin of co-ordinates 400,000 yds. west & 1,800,000 yds. south of the true origin of zone 7.



Geology by M. Solomon B.Sc.
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Scale: 2" = 1 mile.

FIG. 3(a)

Traced by P.B. Nankivell.

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