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A PHOTOGEOLOGICAL STUDY OF THE MOUNT READ VOLCANICS

[redacted] NORTH + SOUTH OF ROSEBERY [redacted] SMANIA.

Undertaken on behalf of
THE ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA Ltd.
by
R.F. Loxton, Hunting and Associates, Canberra.

Scale 1:40,000

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- Definite geological contact
- Probable geological contact
- Inferred geological contact
- Unconformity
- Superficial boundary
- Trace of bedding
- Joint
- Fracture
- Probable fault
- Fault (with dip)
- Inferred fault
- Shear
- Dyke filled fracture
- Plunging anticline
- Plunging syncline
- Plunging overturned syncline
- Dip of bedding <10°
- Dip of bedding 10°-30°
- Dip of bedding 30°-60°
- Dip of bedding >60°
- Dip of bedding vertical to subvertical
- Dip of bedding overturned
- Vertical cleavage
- Lake
- River and creeks
- Buildings
- Road
- Track
- Railway
- Transmission Line
- Mine
- Quarry; open cut mine
- Dump, tailings dam
- Scarp, steep slope
- Cirque
- Glacial moraine dam
- Photo centre ROSEBERY AREA photographs
- Photo centre CONICAL ROCKS photographs
- Aerial survey marker
- Trignometrical marker
- Field check route

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03_4917
Tyndall, Lyell, Beatrice, Comstock, 1972-76
Placer Dome Asia Pacific*
Green, D.

5 cm

QUARTERNARY — Alluvium

PLEISTOCENE — Undifferentiated glacial deposits [fluvioglacial deposits; moraine deposits.]

TERTIARY — Basalt; Scree; Gravels below Tb

JUR[redacted] — Dolerite; Scree

SILURIAN — Undifferentiated [Quartzite ≡ Keel Quartzite; Fossiliferous shale ≡ Amber Slate; Quartzite ≡ Crotty Quartzite.]

ORDIVICIAN — Junee Group [Gordon Limestone; Moina Quartzite; Owen conglomerate/Zeehan conglomerate including Newton Creek Member]; scree

NORTH

CAMBRIAN — DUNDAS GROUP*
- Mudstone, quartzite, greywacke
- Conglomerate
- Greywacke, mudstone (Hatfield River Sequence)
- Greywacke conglomerate – sandstone, mudstone sequence

Que River slates
Farrell Group EAST ≡ ? } MT. READ VOLCANICS ?
Rosebery Group WEST

SOUTH

- Brewery Junction Fm
- Razorback conglomerate
- Dundas Group – unassigned
- Undifferentiated
- Crimson Creek Formation.

MOUNT READ VOLCANICS

NORTH OF HENTY FAULT

- Tyndall Group [Jukes Breccia; Comstock volcanics (Tuffs)]
- Bulgobac Volcanics (dacitic tuff + lavas)
- Mount Black Volcanics (quartz Keratophyres, keratophyres) also south of Henty Fault.
- Mackintosh Volcanics (tuff, lavas, agglomerate) possible passage beds between Eqr + Emb
- Burns Creek Rhyolite member
- Primrose Pyroclastics (rhyolite and minor dacitic ash flows, tuffs, (minor flows)
- Que River Volcanics rhyodacite, dacite and andesite flows, minor pyroclastics

SOUTH OF HENTY FAULT

- Murchison Volcanics quartz porphyry and quartz feldspar porphyry extrusives + diamond rhyolites
- Lake Salina Pyroclastics – probable lateral equivalent of Ep
- Undifferentiated volcanics and sediments (proposed name Anthony Creek Volcanics)
- Queenstown Pyroclastics

PRE-CAMBRIAN — PROTEROZOIC
- Donah Quartzite
- Concert Schist
- ~~Slight Quartzite~~ (≡ Tyerman Metaquartzite)

INTRUSIVES

DEVONIAN — Granite [Meredith Granite; High Tor Granite]

CAMBRIAN —
- Intrusive quartz and quartz-feldspar porphyry ≡ Murchison Granite (intrusive phase of Ep)
- Quartz – feldspar porphyry
- Serpentinite, Pyroxenite
- Gabbro – dolerite, norite

This map was prepared from the photogeological interpretation of 123 1:40,000 scale panchromatic aerial photographs. The photogeological study totalled 34 days with related field work taking 7 days.

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PHOTOGEOLOGICAL INTERPRETATION PENDING FIELD INVESTIGATION BY THE PHOTOGEOLOGIST.

R. F. Loxton, Hunting and Associates
P.O. BOX 20, BARTON CENTRE, CANBERRA A.C.T. 2600
Telephone 95 3500

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