

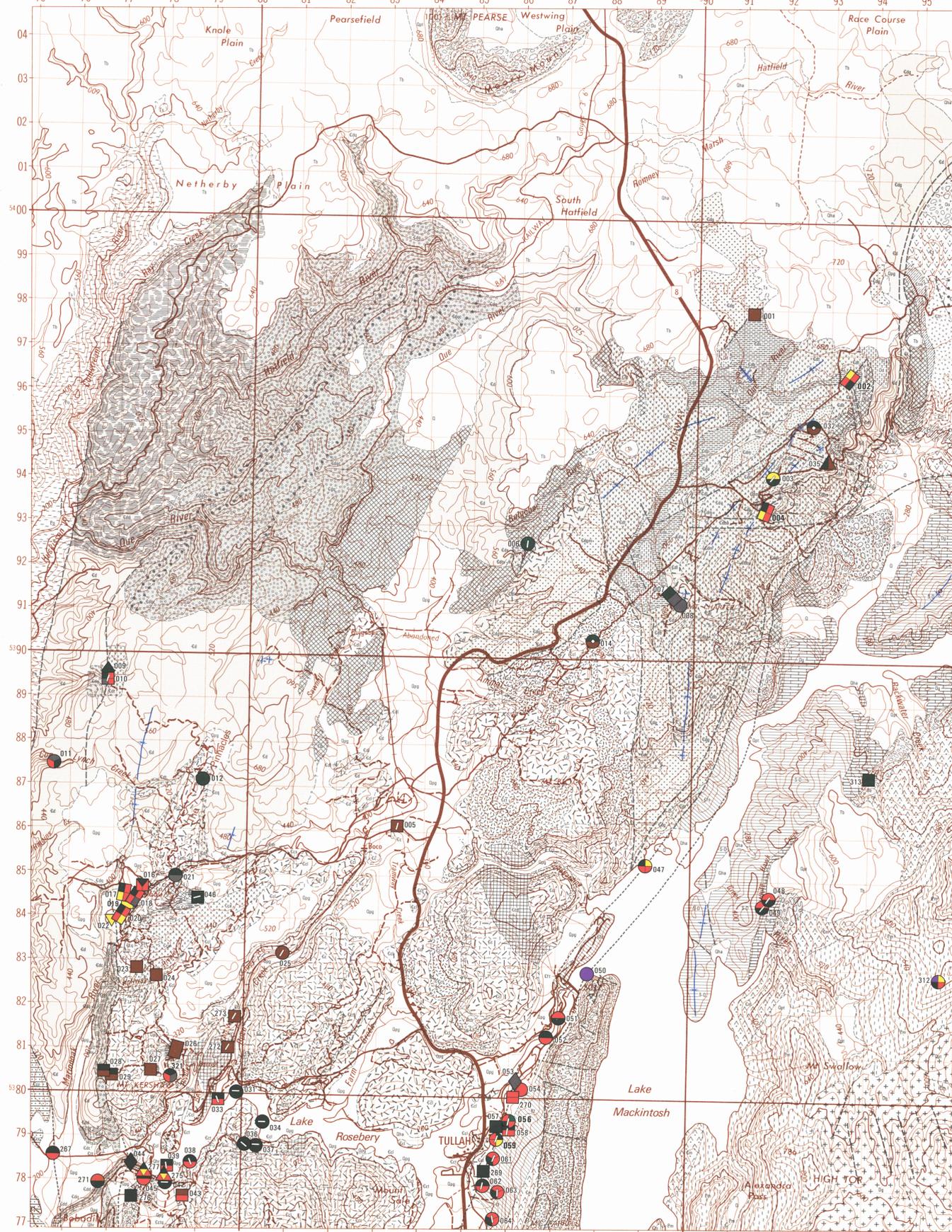


TULLAH



1:50 000 THE MOUNT READ VOLCANICS PROJECT
GEOLOGICAL SURVEY OF TASMANIA - DEPARTMENT OF MINES - HOBART

METALLIC MINERAL DEPOSITS MAP SERIES SHEET 8014-IV



INDEX OF DEPOSITS

| NAME | COMMODITIES |
|------|-----------------------------|
| 001 | goshite |
| 002 | Zn, Pb, Cu, Ag, Au |
| 003 | Gold Hill |
| 004 | Duer River |
| 005 | Stock Creek |
| 006 | Pb, Zn, Cu, Ag |
| 007 | Pb, Zn, Cu |
| 008 | Mt Charter |
| 009 | Pb, Zn, Cu |
| 010 | Star Falls |
| 011 | Pb, Zn, Cu, Ag, Au |
| 012 | Lynch Creek Prospect |
| 013 | Pb, Zn, Cu, Ag |
| 014 | Boundary |
| 015 | North Phoenix |
| 016 | Costean 18 |
| 017 | Zn, Pb, Cu, Ag, Au, Ba |
| 018 | Central Thomas Workings |
| 019 | McGuinness' Shaft |
| 020 | Pb, Zn, Cu, Ag, Au, Ba |
| 021 | Burn's Peak (Luo's Fnd) |
| 022 | Pb, Zn, Cu, Ag, Au, Ba |
| 023 | Stonage Creek Gold Diggings |
| 024 | Pb, Zn, Cu, Ag, Au, Ba |
| 025 | Section 1893 93M |
| 026 | Pb, Zn, Cu, Ag, Au, Ba |
| 027 | Section 1894 93M |
| 028 | Pb, Zn, Cu, Ag, Au, Ba |
| 029 | Section 3711, 3712 |
| 030 | Pb, Zn, Cu, Ag, Au, Ba |
| 031 | Home Rule |
| 032 | Zone D |
| 033 | Section 1726 |
| 034 | Section 1845 |
| 035 | Section 1846 |
| 036 | Section 1847 |
| 037 | Section 1848 |
| 038 | Section 1849 |
| 039 | Section 1850 |
| 040 | Section 1851 |
| 041 | Section 1852 |
| 042 | Section 1853 |
| 043 | Section 1854 |
| 044 | Section 1855 |
| 045 | Section 1856 |
| 046 | Section 1857 |
| 047 | Section 1858 |
| 048 | Section 1859 |
| 049 | Section 1860 |
| 050 | Section 1861 |
| 051 | Section 1862 |
| 052 | Section 1863 |
| 053 | Section 1864 |
| 054 | Section 1865 |
| 055 | Section 1866 |
| 056 | Section 1867 |
| 057 | Section 1868 |
| 058 | Section 1869 |
| 059 | Section 1870 |
| 060 | Section 1871 |
| 061 | Section 1872 |
| 062 | Section 1873 |
| 063 | Section 1874 |
| 064 | Section 1875 |
| 065 | Section 1876 |
| 066 | Section 1877 |
| 067 | Section 1878 |
| 068 | Section 1879 |
| 069 | Section 1880 |
| 070 | Section 1881 |
| 071 | Section 1882 |
| 072 | Section 1883 |
| 073 | Section 1884 |
| 074 | Section 1885 |
| 075 | Section 1886 |
| 076 | Section 1887 |
| 077 | Section 1888 |
| 078 | Section 1889 |
| 079 | Section 1890 |
| 080 | Section 1891 |
| 081 | Section 1892 |
| 082 | Section 1893 |
| 083 | Section 1894 |
| 084 | Section 1895 |
| 085 | Section 1896 |
| 086 | Section 1897 |
| 087 | Section 1898 |
| 088 | Section 1899 |
| 089 | Section 1900 |
| 090 | Section 1901 |
| 091 | Section 1902 |
| 092 | Section 1903 |
| 093 | Section 1904 |
| 094 | Section 1905 |
| 095 | Section 1906 |
| 096 | Section 1907 |
| 097 | Section 1908 |
| 098 | Section 1909 |
| 099 | Section 1910 |
| 100 | Section 1911 |

MINERALIZATION

| COLOUR | SYMBOL | MINERALS/COMMODITIES |
|--------|--------|----------------------------------------------------------|
| Black | Pb, Zn | Galena, sphalerite, other lead, zinc minerals. Lead Zinc |
| Red | Ag | Silver in sulphides, native silver. Silver |
| Yellow | Au | Native gold, gold in sulphides, tellurides. Gold |
| Red | Cu | Chalcopyrite, other copper minerals. Copper |
| White | Sn | Cassiterite, stannite. Tin |
| White | W | Scheelite, wolframite. Tungsten |
| Purple | As | Arsenopyrite, Arsenic |
| Green | Sb | Antimony minerals. Antimony |
| White | Bi | Bismuthinite, bismuth, others. Bismuth |
| Black | | Non-metallic gangue minerals, chiefly barite. |
| Brown | Fe | Pyrite, magnetite, hematite. Goethite |
| White | | Unknown |

FORM OF DEPOSIT

| | |
|---|-------------------------------------------------|
| ◇ | MASSIVE STRATIFORM |
| ◇ | direction of symbol indicates strike of deposit |
| ◇ | DISSIMINATED |
| ◇ | strike indicated |
| ○ | VEIN |
| ○ | strike indicated |
| ○ | MULTIPLE VEIN OR STOCKWORK |
| ○ | strike indicated |
| ▽ | ALLUVIAL/RESIDUAL |
| ▽ | Quaternary |
| △ | ALLUVIAL/RESIDUAL |
| △ | older than Quaternary |
| ◇ | UNKNOWN |

VALUE OF DEPOSIT*

| | |
|---------------------------------------|-----|
| < \$10 ⁶ | 006 |
| \$10 ⁶ - \$10 ⁷ | 061 |
| \$10 ⁷ - \$10 ⁸ | 056 |
| > \$10 ⁸ | 002 |

* Based on published production plus reserves and the metal prices published in B.M.R. Monthly Bulletin for 30/4/86

GEOLOGICAL LEGEND

QUATERNARY

- Qm Tailings and mine waste.
- Qh Alluvium, marsh and swamp deposits.
- Qp Scree, talus.
- Qm Undifferentiated glaciogenic deposits.

TERTIARY

- Tb Basalt.
- Ts Non-marine sediments.

JURASSIC

- Jd Dolerite.

PERMIAN

- Pf Glacio-marine and non-marine sequences.

DEVONIAN

- Dd Dolerite.
- Dg Gabbro.
- Dv Andesite (DA) and basaltic (DB) volcanics.
- Dm Interbedded lithic tuff, mudstone and siltstone with minor conglomerate and tuff. Mafic dykes form a major component of sequence in some places.
- Df Felsic tuff.

SILURO-DEVONIAN

- Sd Shallow water marine siliciclastic sandstone, mudstone and minor limestone. Eldon Group and correlatives.

ORDOVICIAN

- Od Limestone, dolomite and mudstone. Gordon Limestone and correlatives.

LATE CAMBRIAN-EARLY ORDOVICIAN

- Os Siliciclastic conglomerate, sandstone and minor mudstone.
- Ov Locally volcanoclastic conglomerate at base. Owen Conglomerate and correlatives.

CAMBRIAN DUNDAS GROUP AND CORRELATES

- Cq Quartz-feldspar porphyry, mainly intrusive.
- Ck Polymict conglomerate.
- Cd Dolomitic sandstone, siltstone, minor conglomerate.
- Cs Siliciclastic lithic tuff, quartz tuff, mudstone, conglomerate horizons indicated (EAgc).
- Cv Felsic volcanic tuff, siltstone (EAv), felsic tuff (EAv) of White Spur Formation.
- Cs Shale and siltstone.
- Cd Lithic tuff-siltstone. Micaeous lithic tuff (Edg) and tuffaceous lithic tuff (Edg) indicated.
- Cv Felsic lava. Quartz-feldspar-phryic (EAv) and feldspar-phryic (EAv) lavas indicated.
- Cv Felsic tuff. Dominantly vitric tuff (EAv).
- Cd Basalt (Ed) and andesite (Ed) of Mount Read Volcanics.
- Cm Epilastic breccia and sandstone with clasts of basalt, andesite, felsic lava and massive sulphide. Interbedded of andesite and basaltic volcanics. felsic lava and massive sulphide.

TYNDALL GROUP

- Cv Volcanoclastic conglomerate, sandstone and mudstone. Minor tuff.
- Cv Quartz-feldspar phryic tuff and agglomerate. Minor lava.
- Cv Mudstone and volcanoclastic sandstone.
- Cv Interbedded quartz-rich sandstone, conglomerate and mudstone (Middle to Late Cambrian Shale Range Beds).

CENTRAL ASSOCIATION OF MOUNT READ VOLCANICS

- Cv State and volcanoclastic sandstone (EAv), tuffaceous units (EAv) of Farnell State.
- Cv Quartz-feldspar-phryic tuff (EAv) and lava (EAv), volcanoclastic conglomerate (EAv), mudstone (EAv). Possible correlatives of Tyndall Group.
- Cv Granite.

CENTRAL ASSOCIATION OF MOUNT READ VOLCANICS

- Cv Quartz-feldspar porphyry, mainly intrusive.
- Cv Quartz-phryic lava.
- Cv Basaltic lava.
- Cv Andesite lava.
- Cv Felsic lava-feldspar-phryic or aphyric. Unit of hornblende-phryic lava and minor tuff (EAv) indicated.
- Cv Felsic tuff and agglomerate. Dominantly gneissite (EAv), dominantly agglomerate (EAv), crystal-tuff tuff and spargite tuff (EAv), vitric tuff (EAv).
- Cv Siltstone, shale, minor sandstone and tuff. Chert indicated (EAv).
- Cv Quartz-phryic tuff and agglomerate, minor siltstone-shale horizons.
- Cv Basalt, dolerite and gabbro intrusives.

South and East of Henty Fault

- Cv Felsic quartz-feldspar porphyry, mainly intrusive.
- Cv Siltstone, shale, mudstone, bedded tuff. Units of bedded tuff, in places graded, siltstone, mudstone and agglomerate indicated (EAv). Units of black mudstone, siltstone, fine-grained siliceous sandstone and coarse-grained volcanoclastic sandstone indicated (EAv). Chert indicated (EAv).
- Cv Andesitic, feldspar-pyroxene porphyry intrusives.
- Cv Andesitic, hornblende-bearing porphyry.
- Cv Grey-green intermediate or mafic agglomerate, tuff, lava and intrusives.
- Cv Dominantly green chlorite-rich feldspar porphyry lava of andesite to dacite composition with minor tuff and siltstone.
- Cv Intermediate to felsic graded, bedded agglomerate and crystal tuff interbedded with volcanoclastic sandstone, mudstone and mafic dykes (Whip Spur sequence).
- Cv Dominantly massive feldspar porphyry lava and intrusive rocks, in places flow-banded or coarsely fragmental. Some phenocryst-poor varieties.
- Cv Dominantly feldspar-phryic tuff and agglomerate, rare mudstone and sandstone.

ROCKS OF HENTY FAULT WEDGE

- Dv Ultramafic rocks, serpentinite.
- Dg Gabbro.
- Dv Andesite (DA) and basaltic (DB) volcanics.
- Dm Interbedded lithic tuff, mudstone and siltstone with minor conglomerate and tuff. Mafic dykes form a major component of sequence in some places.
- Df Felsic tuff.

WESTERN VOLCANO - SEDIMENTARY ASSOCIATION OF LANGDON RIVER - LYNCHFORD AREAS

- Cv Intrusive and extensive quartz-feldspar porphyry, extensive porphyry interbedded with derived sandstone, siltstone and mudstone indicated (EAv).
- Cv Felsic tuff, vitric tuff, crystal tuff with black mudstone, sandstone and agglomerate. Dominantly quartz-rich crystal tuff (EAv) and black mudstone (EAv) indicated.
- Cv Quartz-rich sandstone and minor mudstone (Murray Ridge Sandstone).
- Cv Micaeous lithic tuff and mudstone, units of feldspar-quartz crystal tuff (EAv) indicated.
- Cv Andesite and andesitic tuff, mainly hornblende-bearing.
- Cv Mafic to intermediate intrusives, lavas, tuff and agglomerate, feldspar-pyroxene porphyry.
- Cv Basalt and basaltic tuff, frequently with ophitic texture.

CRIMSON CREEK FORMATION

- Cv Unfossiliferous mudstone, mafic volcanoclastic lithic tuff, basalt.

PRECAMBRIAN

- Ps Mudstone, sandstone. Duah Formation correlatives.
- Pm Metamorphosed quartzite, phengitic phyllite and schist of Tyennon Region.

RESPONSIBILITY DIAGRAM

PUBLISHED

- Geological Atlas 1: 83-380 Series Mackintosh First Edition 1986. Tasmanian Department of Mines.
- Konyshev, P., 1986. Mount Read Volcanics Map 1. Geology of the Henty - Mt Charter area.
- Corbett, K.D., McNeill, A., 1986. Mt Read Volcanics Map 2. Geology of the Rosebery - Mt Block area.

UNPUBLISHED

- Konyshev, P. Personal Communications.



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COMPILED UNDER DIRECTION OF H. MURCHE B.Sc.
Director of Mines
UNDER THE AUTHORITY OF THE MINISTER FOR MINES
1st Edition 1986