MINERAL RESOURCES TASMANIA
DIGITAL GEOLOGICAL ATLAS 1:25 000 SERIES
CETHANA, SHEET 4240

CETHANA

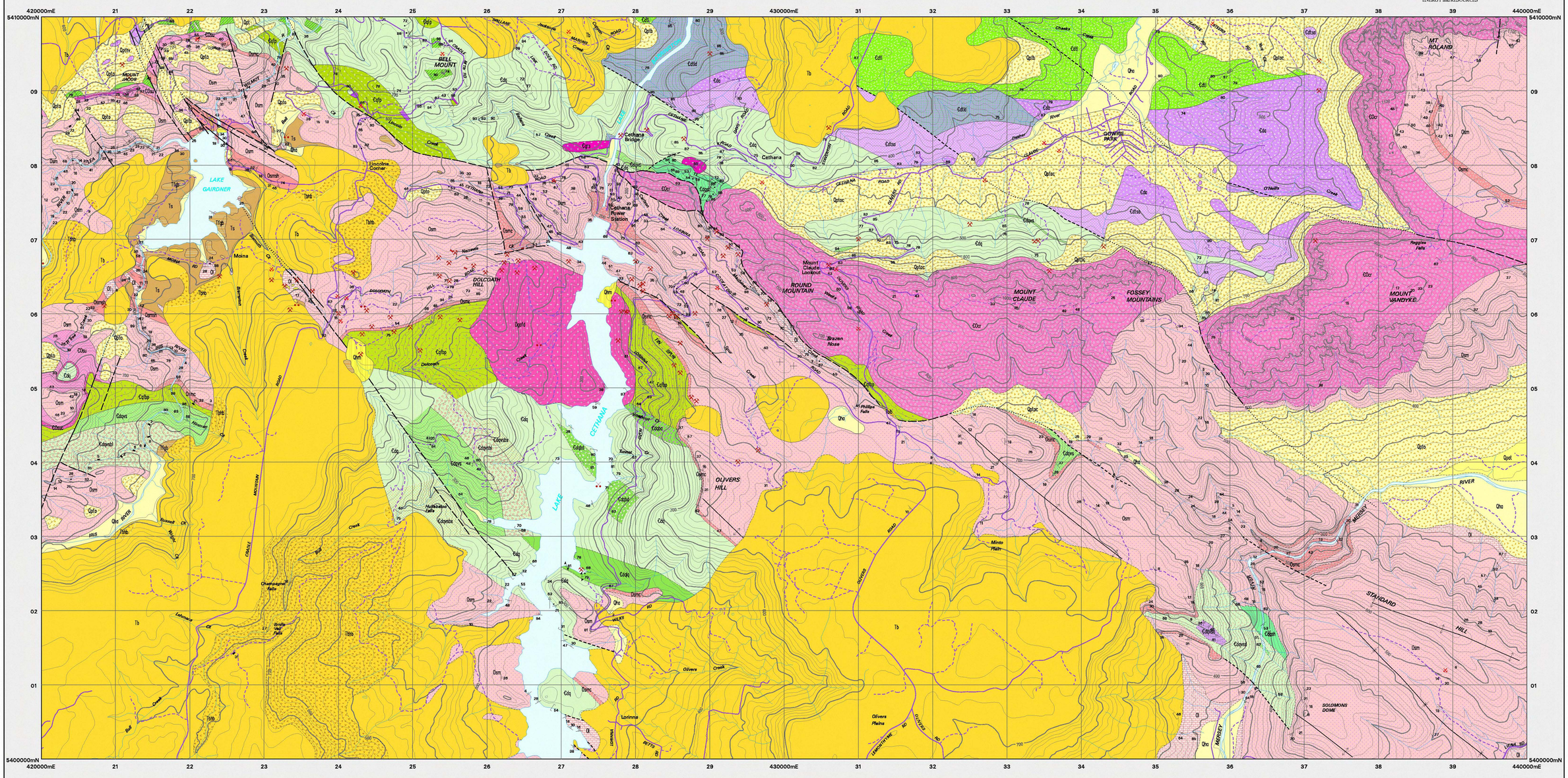
Scale: 1:25 000

0 500 1000 1500 2000 2500m

MINERAL RESOURCES TASMANIA

Tasmania

DEPARTMENT of INFRASTRUCTURE ENERGY and RESOURCES



CAINOZOIC

QUATERNARY

Symbol	Description
Qhm	Mine tailings and man disturbed ground (Qhm).
Qha	Stream alluvium, swamp and marsh deposits (Qha).
Qpt	Talus (Qpt). Quartzite and conglomerate talus (Qpto). Cambrian volcanics talus (Qptv). Basalt talus (Qptb). Talus derived from Ordovician conglomerate (Qptoc).
Qpat	Till, talus and alluvial gravels (Qpat).

TERTIARY

Symbol	Description
Tb	Basalt (Tb). Hyaloclastic basaltic breccia (Tbhb).
Tbtb	Strongly altered basic to intermediate lava breccia (Tbtb).
Tfgb	Grey-billy and silcrete (Tfgb).
Ts	Dominantly non-marine sequences of gravel, sand, silt, clay and regolith (Ts).

Unconformity

PALAEOZOIC

ORDOVICIAN

Symbol	Description
Ol	Limestone sequence with siltstone in some areas. Correlate of Gordon Limestone (Ol).
Osmsh	Calcareous siltstone and sandstone. Transitional unit from Moina Sandstone to Gordon Limestone (Osmsh).
Osm	Pale grey to pink commonly cross-bedded quartz sandstone, coarse and pebbly toward base and with tubicolar trace fossils in horizons of upper sequences (correlate of Moina Sandstone) (Osm).
Osmc	Dominantly pebble-cobble siliceous conglomerate with interbedded coarse-grained pale pink to grey sandstone, rarley bioturbated (Osmc).

LATE CAMBRIAN

Symbol	Description
€Osu	Grey to pink quartz sandstone and granule-pebble conglomerate with detrital chert clasts. Basal angular unconformity in places (€Osu).
€Ob	Basalt, typically hematite-altered, fine-grained, purple weathering. Massive to brecciated, generally well cleaved, vesicular, rare pillow structure (€Ob).
€Osuc	Pink pebble to pebble-cobble conglomerate with minor lenses of coarse sandstone (€Osuc).
€Ocr	Pink pebble-cobble to cobble-boulder conglomerate, thick-bedded to massive, with minor sandstone lenses (Roland Conglomerate and correlates) (€Ocr).

GORDON GROUP; OWEN GROUP; WUNDWINNA SUPERGROUP

PALAEOZOIC — MIDDLE CAMBRIAN

TYNDALL GROUP CORRELATES

Symbol	Description
€dtsa	Mostly andesitic volcaniclastic sandstone and breccia with some felsic detritus in some areas, rare quartzite clasts (€dtsa).
€da	Andesitic lava and breccia (€da).
€dtl	Rhyolitic lava, typically quartz-feldspar-phyric to aphyric (€dtl).
€dtld	Dacitic lava, typically plagioclase +/- quartz-phyric (€dtld).

CORRELATE OF EASTERN GUARTZ-PHYRIC SEQUENCE

Symbol	Description
€dq	Mainly quartz-phyric volcaniclastic rocks with intercalated quartz-feldspar +/- biotite porphyries (€dq).
€dqsh	Dominantly siltstone sequence, typically grey, thinly bedded (€dqsh).
€dqsc	Lithic sandstone and minor pebble conglomerate, with clasts of felsic lava and quartzite (€dqsc).
€dqvs	Volcaniclastic sandstone, typically quartz-feldspar-rich, with minor siltstone (€dqvs).
€dqrl	Felsic feldspar-phyric lava, commonly spherulitic (€dqrl).
€dqlq	Felsic lava, typically quartz-feldspar-phyric, commonly flow-banded and autobrecciated (€dqlq).
€dqfh	Quartz-feldspar-hornblende porphyry-possible lava (€dqfh).
€dqvsbl	Volcaniclastic crystal-lithic sandstone with quartz, feldspar and biotite (€dqvsbl).
€dqvsbx	Volcaniclastic crystal-rich sandstone with quartz, feldspar and biotite (€dqvsbx).
€dqbd	Pyroclastic breccia and tuff with clasts of plagioclase-quartz +/- biotite-phyric dacite (€dqbd).
€dqba	Pyroclastic/autoclastic breccia with clasts of plagioclase +/- hornblende-phyric andesite (€dqba).
€dqvsd	Polymict volcaniclastic sandstone with clasts of plagioclase +/- biotite-phyric dacite and lesser andesite, quartzite and schist (€dqvsd).
€dqvsa	Polymict volcaniclastic sandstone with clasts of plagioclase +/- hornblende-phyric andesite, with lesser dacite and quartzite (€dqvsa).

MOUNT HEAD VOLCANICS

INTRUSIVE ROCKS

PALAEOZOIC — DEVONIAN

Symbol	Description
Dgafd	Cream to pink medium- to coarse-grained equigranular to porphyritic alkali-feldspar granite with minor microgranite, aplite, pegmatite and greisen phases (Dgafd).
Dgaf	Quartz-feldspar porphyry with associated muscovite-rich greisen zones (Dgaf).

DOLCOATH GRANITE

CAMBRIAN

Symbol	Description
€dbc	Basaltic dykes, typically chlorite-carbonate altered (€dbc).
€qfp	Quartz-feldspar porphyry - dominantly intrusive (€qfp).
€qfbp	Quartz-feldspar-biotite +/- hornblende porphyry (€qfbp).
€grs	Granite with strongly sericitised feldspar and biotite altered to opaques, muscovite and chlorite (€grs).

MOUNT READ VOLCANICS

Geological boundary - position approximate.
Geological boundary - inferred.
(white line) Limit of mapping of sub-unit within undifferentiated rock unit.
Fault - position approximate.
Fault - inferred.
Fault - concealed.

Strike and dip of bedding - right way up; overturned; facing unknown.
Strike of vertical bedding, facing indicated by single tic; facing unknown.
Horizontal bedding.
Strike and dip of cleavage of unspecified type and relative age - dipping; vertical.
Strike and dip of cleavage, relative local age S2.
Trend and plunge of minor fold hinge line, unspecified type and relative age.
Trend and plunge of hinge line of unspecified relative age - minor antiform; minor synform.
Strike and dip of dominant joint set.
Trend and plunge of slickensides, movement sense unspecified.
Trend and plunge of mineral elongation lineation.
Strike and dip of kink band with sense of displacement viewed down plunge; dextral.
Strike and dip of foliation due to alignment of hornblende and/or biotite in granitic rock.
Strike and dip of igneous banding or platy alignment.
Strike and dip of dyke or vein, rock type or mineral specified by RCODE in Point Attribute Table.
Strike and dip of outcrop-scale fault, type unspecified.
Field station for adjacent readings on the map.
Mineral deposit location - hardrock
Mineral deposit location - alluvial
Construction materials location -
Data derived from Mineral Resources Tasmania DEPOSITS data base. Data point position has not been verified in every case.

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Compiled by M.P. McClenaghan and D.C. Green, 1999 from the following sources (see responsibility diagram):

A 1:25000 Mapping by M.P. McClenaghan, 1998.

B 1:25000 Mapping by D.C. Green, 1998.

C Airphoto Interpretation by M.P. McClenaghan and D.C. Green.

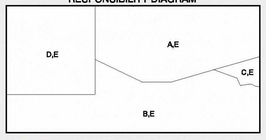
D Pemberton, J. and Vicary, M.J. 1988. Map 9 Geology of the Winterbrook - Moina area. Mount Read Volcanics Project. Geological Survey of Tasmania.

E Modified and updated by K.D. Corbett, 2004 as part of the Western Tasmanian Regional Minerals Program.

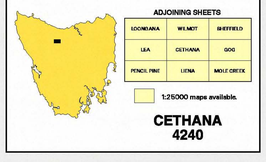
Digital base information from Information and Land Services Division, Department of Primary Industries, Water and Environment.

Map produced by the Data Management Branch of Mineral Resources Tasmania using G.I.S. software. AGD66 - AMG Zone 55. Contour Interval: 20 metres.

RESPONSIBILITY DIAGRAM



LOCATION DIAGRAM



Data correct & plotfile generated: 22-MAR-2005

WARNING: INKS ARE LIGHT SENSITIVE