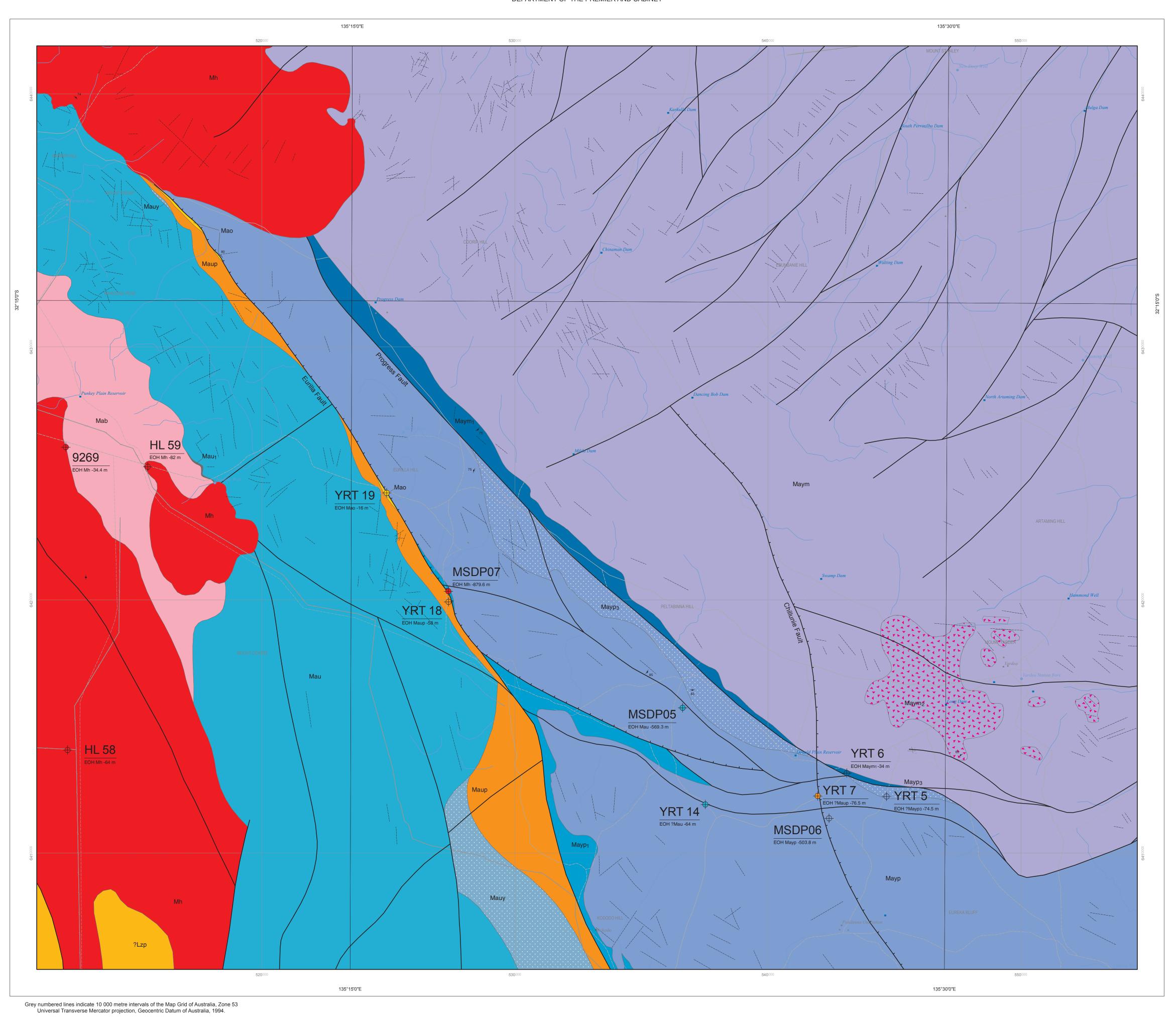
INTERPRETED PROTEROZOIC GEOLOGY OF PELTABINNA - MINERAL SYSTEMS DRILLING PROGRAM SPECIAL MAP SERIES

GEOLOGICAL SURVEY OF SOUTH AUSTRALIA DEPARTMENT OF THE PREMIER AND CABINET





REFERENCE

HILTABA SUITE: Granite to granodiorite; coarse-grained K-feldspar megacrystic to fine-grained porphyritic or equigranular high-level intrusives. Age c. 1590–1575 Ma (U-Pb). MOONAREE DACITE MEMBER: Dacite, massive, red, commonly columnar jointed; porphyritic with phenocrysts of feldspar, pyroxene and local quartz in a fine- to medium-grained spherulitic to granophyric groundmass. Dacite, massive, red, porphyritic; with scattered granitoid and lithic clasts. Dacite, massive, black, grey or brown, sometimes flow-banded and Dacite red; vesicular top of flow, often flow-banded. PONDANNA DACITE MEMBER: Dacite, massive, red, commonly columnar jointed; porphyritic with phenocrysts of feldspar and pyroxene in a fine-grained spherulitic to granophyric groundmass. Dacite, massive, black, grey or brown, sometimes flow-banded and MOUNT FRIDAY FORMATION: Volcaniclastic breccia, conglomerate, diamictite, sandstone and siltstone.

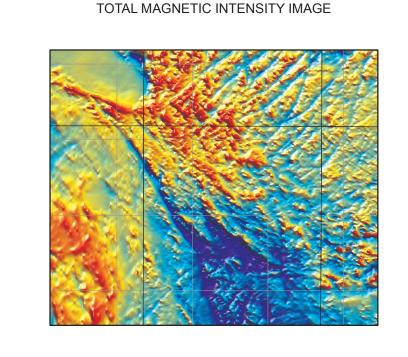
PANEY RHYOLITE MEMBER: Rhyolite, red, porphyritic with phenocrysts of quartz and feldspar, commonly flow-banded; locally mingled with Eucarro YANNABIE RHYOLITE MEMBER: Rhyolite, red, amygdaloidal and porphyritic with phenocrysts of feldspar and abundant free quartz; vesicular top of flow. EUCARRO RHYOLITE: Rhyolite, massive, red, columnar-jointed; porphyritic with phenocrysts of feldspar, pyroxene and homblende, and rare free quartz in a spherulitic to granophyric groundmass.

Dacite, massive, black, grey or brown, sometimes flow-banded and crystal poor; chilled base of flow.

BITTALI RHYOLITE: Rhyolitic to rhyodacitic aphyric to quartz and feldsparphyric lavas and ignimbrites and rhyolitic feeder dykes.

PINBONG SUITE: Grey, fine- to medium-grained, equigranular to porphyritic biotite granite; weakly deformed to migmatitic; fine- to medium-grained, equigranular dolerite and gabbro in the subsurface. Crystallisation age c. 1735–1700 Ma (U-Pb SHRIMP).

GEOPHYSICAL DATA



SCALE 1:500 000 The Total Magnetic Intensity Image has been compiled using aeromagnetic data from the Department of the Premier and Cabinet, South Australia. Aeromagnetic data has been merged, gridded and image processed by the Geological Survey of South Australia, DPC Resources and Energy Group.

-271.885 74.5 420.884

A two standard deviation contrast stretch has been applied to the raster image above.

BOUGUER GRAVITY ANOMALY MAP

SCALE 1:500 000

The Bouguer Gravity Anomaly Map has been compiled using gravity data from the Department of the Premier and Cabinet, South Australia. Gravity data has been merged, gridded and image processed by the Geological Survey of South Australia, DPC Resources and Energy Group.

-21.94528 -11.50428 -1.06327

A two standard deviation contrast stretch has been applied to the raster image above.



Government of South Australia



GEOLOGICAL BOUNDARY GEOLOGICAL BOUNDARY POSITION ACCURATE ...

JOINT PATTERN AIRPHOTO INTERPRETED

CULTURAL FEATURES VEHICULAR TRACKS MINOR ROADS ... LANDING GROUND

IDENTIFIED POINT ...

DRILLHOLE REFERENCE SELECTED DRILLHOLE RELIEF FEATURES END OF HOLE STRATIGRAPHY (DEPTH BELOW SURFACE IN METRES) EOH Mh -82m

GEOMORPHIC FEATURES MAJOR WATERCOURSE MINOR WATERCOURSE

Bibliographic reference: Pawley, M.J., Werner, M., McAvaney, S.O. and Krapf, C.B.E. (compilers) 2017. Interpreted Proterozoic solid geology of Peltabinna – Mineral Systems Drilling Program Special Map Series, 1:75 000 scale. Geological Survey of South Australia, Adelaide.

This map is produced on the Geocentric Datum of Australia (GDA94) The sheetedge of this map will not coincide with adjoining maps based on the superseded datum (AGD84)

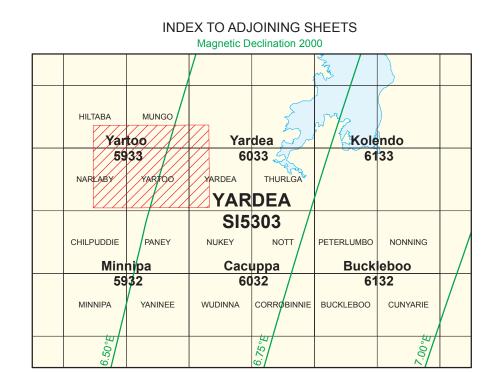
supplied by Geoscience Australia - National Mapping Division, ACT. The relationship between this data and PIRSA data is not guaranteed. Computer generated from SA_GEOLOGY database

STRUCTURE FEATURES

HORIZONTAL SEDIMENTARY BEDDING

For the surface geology of Peltabinna, please refer to Werner, M., Krapf, C.B.E., McAvaney, S.O. and Pawley, M. J. (compilers) 2017. Surface Geology of the Peltabinna – Mineral Systems Drilling Program Special Map Series, 1:75 000 scale. Geological Survey of South Australia, Adelaide. For detailed descriptions of stratigraphy, structural geology and geological history of the Peltabinna Map Sheet please refer to: Werner, M., McAvaney, S.O., Krapf, C.B.E., Pawley, M.J. and Fabris, A.J. 2017. Geology of the Peltabinna 1:75 000 Map Sheet, Mineral Systems Drilling Program Special Map Series. Report Book 2016/00025, Department of State Development, Adelaide.

LOCALITY



Any person purchasing this map may reproduce it for their own use or that of their staff, but not for any other purpose except with the written permission of the Chief Executive, Department of the Premier and Cabinet, GPO Box 320, Adelaide, South Australia, 5001 CROWN COPYRIGHT RESERVED Department of the Premier and Cabinet.

Geological mapping and compilation: Compiled by M.J. Pawley, Ph.D., M. Werner, Ph.D., S.O. McAvaney, B.Sc. (Hons). and C.B.E. Krapf, Ph.D. Drafting and cartography by J.A. Irvine B.Sc. S.M. Hill, Ph.D., Director, Geological Survey of South Australia. Topographic detail based on TOPO-250K GEODATA (source scale 1:250 000)

> (Digital data available upon request) Current version 2016.1 Product of DPC Geological Survey of South Australia. Published by, and with the authority of, the Department of the Premier and Cabinet.

July 2017