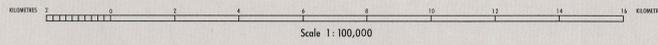


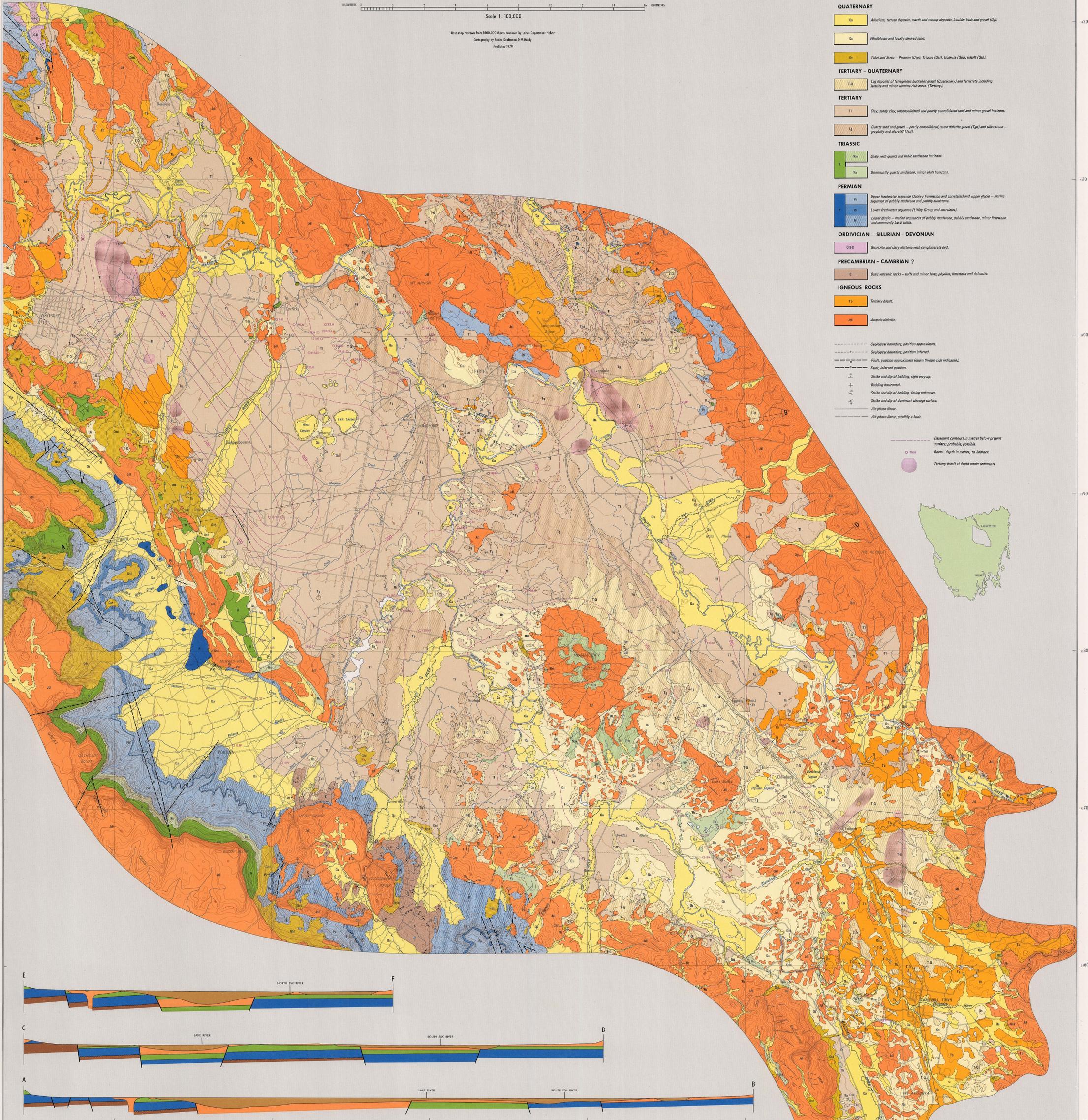
LONGFORD BASIN GEOLOGY

W. L. MATTHEWS B.Sc. 1974

This map is a compilation of existing published maps with some revisions.



Base map redrawn from 1:100,000 sheets produced by Lands Department Hobart.
Cartography by Senior Draftsman G. M. Hardy.
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QUATERNARY

- Qa Alluvium, terrace deposits, marsh and swamp deposits, boulder beds and gravel (Qg).
- Qb Windblown and locally derived sand.
- Qc Talus and scree - Permian (Qcp), Triassic (Qct), Devonian (Qdd), Basalt (Qdb).

TERTIARY - QUATERNARY

- T-Q Lay deposits of ferruginous buckshot gravel (Quaternary) and ferricrete including laterite and minor alumina rich areas (Tertiary).

TERTIARY

- Tt Clay, sandy clay, unconsolidated and poorly consolidated sand and minor gravel horizons.
- Ts Quartz sand and gravel - partly consolidated, some dolerite gravel (Tg) and silica stone - greywacke and siliceous (Tsf).

TRIASSIC

- Ts1 Shale with quartz and fibric sandstone horizons.
- Ts2 Dominantly quartz sandstone, minor shale horizons.

PERMIAN

- Pu Upper freshwater sequence (Lacey Formation and correlates) and upper glacio-marine sequence of pebbly mudstone and pebbly sandstone.
- Pm Lower freshwater sequence (Lifley Group and correlates).
- P Lower glacio-marine sequence of pebbly mudstone, pebbly sandstone, minor limestone and commonly basal tillite.

ORDOVICIAN - SILURIAN - DEVONIAN

- O-S-D Quartzite and siltstone with conglomerate bed.

PRECAMBRIAN - CAMBRIAN ?

- C Basic volcanic rocks - tuffs and minor lavas, phyllites, limestone and dolomite.

IGNEOUS ROCKS

- Tb Tertiary basalt.
- Jd Jurassic dolerite.

Geological boundary, position approximated.
Geological boundary, position inferred.
Fault, position approximated (down thrown side indicated).
Fault, inferred position.
Strike and dip of bedding, right may up.
Bedding horizontal.
Strike and dip of bedding, facing unknown.
Strike and dip of dominant cleavage surface.
Air photo linear.
Air photo linear, possibly a fault.

Basement contours in metres below present surface, probable, possible.
Bore, depth in metres, to bedrock.
Tertiary basalt at depth under sediments.

