



**THE STRUCTURE AND METAMORPHISM
OF THE PEWSEY VALE AREA
NORTH-EAST OF WILLIAMSTOWN, S. A.**

BY

ROBIN OFFLER

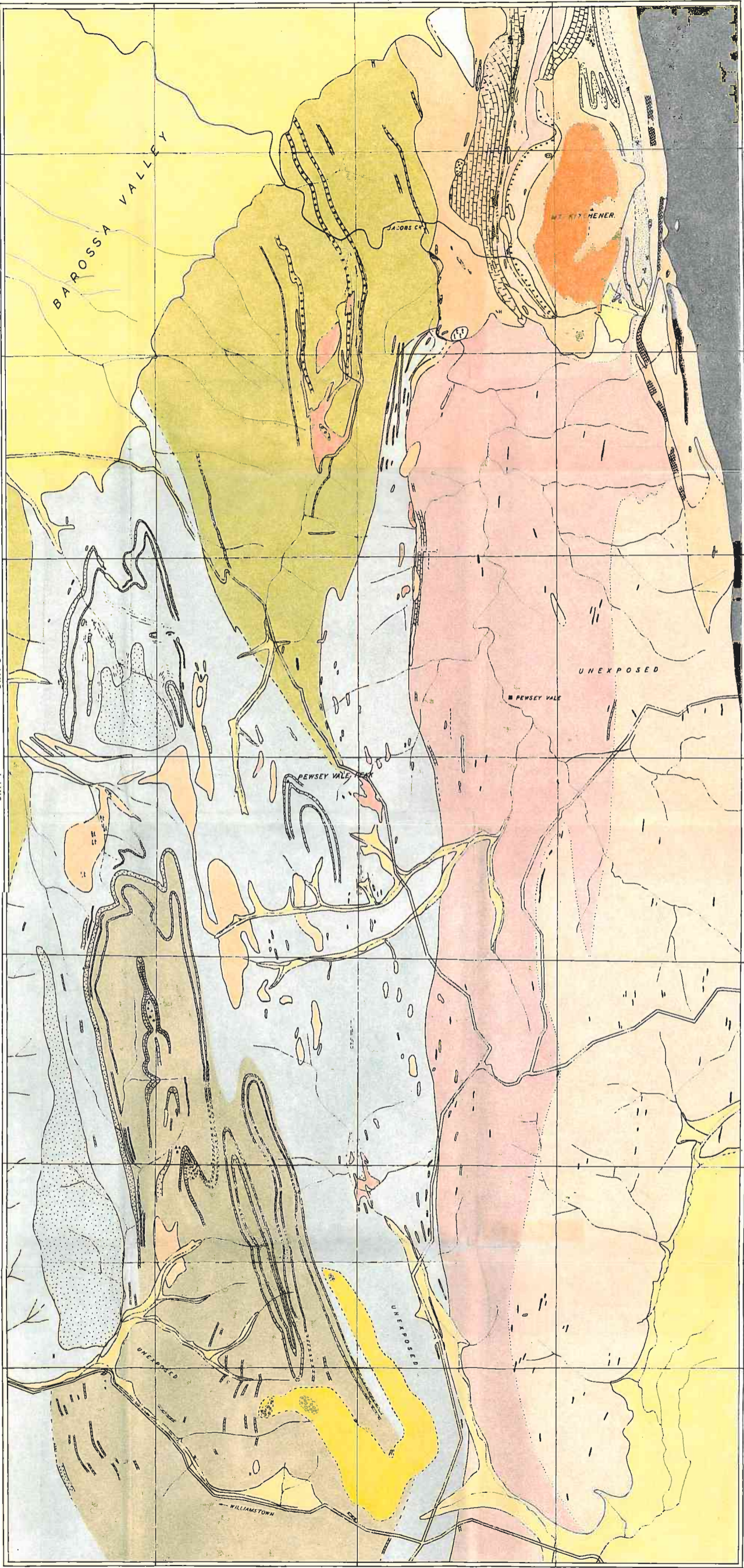
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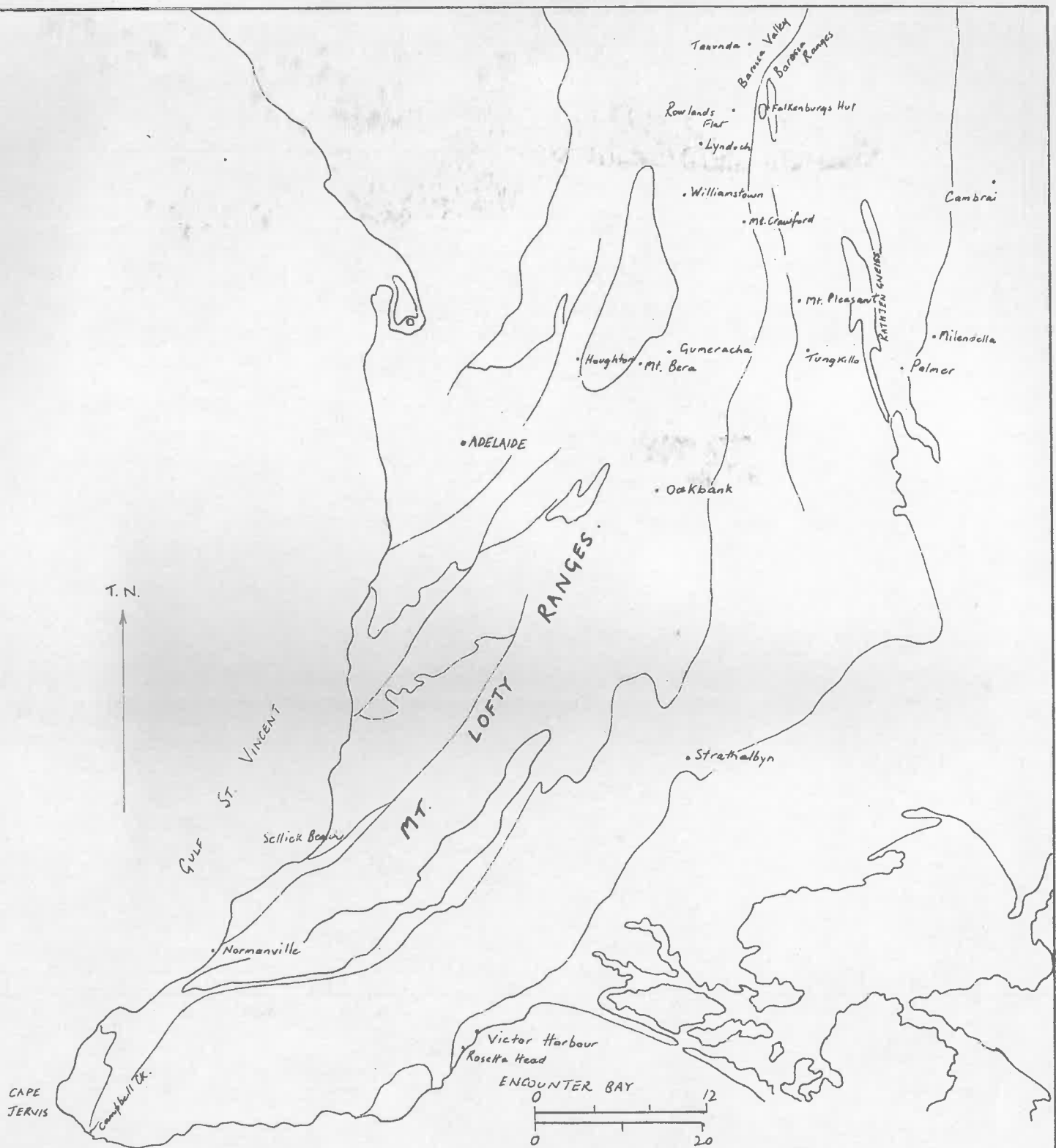
The University of Adelaide.

JULY, 1966.

- QUATERNARY
 Alluvium.
- TERTIARY
 Ferruginous quartz gravel, sands.
- CAMBRIAN-KANMANTOO GROUP
 Tanunda Creek Gneiss
 Migmatite
 Quartzo-feldspathic schist.
 Calc-silicate rock
 Sillimanite schist
 Quartzite
 O-Diathic schists Garnet, Sillimanite schists
 O-Diathic schists often \bar{e} muscovite porphyry
 Kaolinised graphitic schists
- U. PRECAMBRIAN-ADELAIDE SUPERGROUP
 Calc-silicate rock
 Garnet schist
 Siliceous calc-silicate rock
 Quartzite
 Pebble bed
 Mica schists, minor calc-schists
 Quartzite, siliceous calc-silicate rock
 Mica schists.
 Muscovite rich schists
- UNIT 3
 UNIT 2
 UNIT 1
- Calc-silicate rock
 Garnet schist
 Calc schists, mica schists.
- Albite coarsack and fine grained
 Albitized Granite and Granodiorite
 Calcite rock
 Talc
 Dolerite.
 Pegmatite
 Quartz vein.
 H Specular Hematite
 G Limonite Gossan.
 Fault
 Breccia- mainly calc-silicate type
 X Mine.



GEOLOGICAL MAP OF THE PEWSEY VALE AREA.



T. N.
↑

GULF ST. VINCENT

MT. LOFTY RANGES.

Barricade Valley
Barricade Ranges

Tarunda
Rowlands Flat
Lyndoch

Williamstown
Mt. Crawford

Cambrai

Mt. Pleasant
Tungkilla
Palmer
Milendalla

• ADELAIDE

• Oakbank

• Strathalbyn

• Normanville

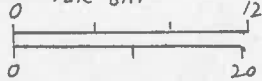
CAPE JERNIS

Campbell Cr.

Scillik Bay

Victor Harbour
Rosetta Head






ENCOUNTER BAY















LOCALITY NAMES MENTIONED IN TEXT.

STRUCTURAL GEOLOGY OF THE PEWSEY VALE AREA.

MARKER UNITS

-  Garnet schists.
-  Calc-silicate rock.
-  Quartzite.
-  Siliceous calc-silicate rock.
-  O-Biot. schists often c muscovite porphyroblasts.

-  Fault.
-  Bedding S.
-  Lithological layering S.
-  Lineation B₁.
-  Lineation B₂.
-  Major B₁ Structures.
-  Major B₂ Structures.
-  ① Barossa Range Syncline.
-  ② Trial Hill Anticline.
-  Trace of form surfaces.
-  B₂ Structures.
-  Facing.

