

Q64 16/11

58-225

SUMMARY REPORT ON
EXAMINATION ON TERTIARY
SEDIMENTS OF MACQUARIE HBR.

Copy 1 of 2

REPORT
ON EXAMINATION ON TERTIARY
SEDIMENTS OF
MACQUARIE HARBOUR

Rep on Tertiary Sediments of
Macquarie Harbour.

3 COPIES

LEE

30/4/58.

414E

LYELL - E.Z. - EXPLORATIONS

414002

Q57, Q64, Q65
- Q79

To: Mr. G.F. Hudspeth.

30th April, 1958

REPORT ON EXAMINATION ON TERTIARY SEDIMENTS OF

MACQUARIE HARBOUR

Dates of Examination: 11th April to 15th April, 1958.
Personnel Employed: B. Scott, H. Neilson.
Man Days: 10.
Location of Camp: Launch "Noname", hut at Pillinger, Kelly Basin.

General Topography

The Tertiary sediments are exposed in cliff sections on the NE shore of Macquarie Harbour, from Pine Cove to Kelly Basin. The sections vary from 20 to 150 feet in vertical height.

Introductory Remarks

The Tertiary sediments are being investigated because they overlie the Dundas and Owen Conglomerate in the area south of Macquarie Harbour. Their thickness and nature can have considerable bearing on the usefulness of the airborne geophysics (Canso) flown over the Greater Osmund area.

Geological Findings

The sediments consisted of a series of unconsolidated orthoquartzites, pebble and cobble conglomerates, shales and lignitic/coal horizons. The series are not folded and have a regional dip of 5-10° to the north. Normal faulting was noted in one location. The sediments show strong evidence of deposition in shallow water with current bedding, torrential bedding and gulleying.

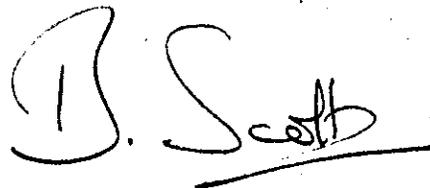
Individual bands of conglomerate, shale, coal, etc. do not persist and cannot be used for correlation. However, it is considered that correlation can be made on a facies basis as follows:

Sandy Facies: Unconsolidated orthoquartzite sands, pebble and cobble conglomerates. It is interesting to note that the conglomerates contain fragments of Dundas rocks, and granite.

Shaley Facies: Brown shales and mudstones, lignitic shales, coal.

The coal occurs as lenses primarily in the shaley facies and is never above 18" thick. It is a low grade product and has no economic significance.

This work is to be correlated with that already completed on the Tertiary sediments at Birch Inlet, Upper Spero River, Moore's Valley and general helicopter reconnaissance work over their entire extent. A full report will be issued in due course.



Geologist-in-Charge.