

AMDEX MINING LIMITED

TRIAKO MINES N.L., BUKA MINERALS N.L.,

GIPPSLAND MINERALS N.L., KIBUKA MINES PTY. LTD.

169 MILLER STREET, NORTH SYDNEY, AUSTRALIA 2060

TECHNICAL REPORT

E.L. 28/76 Derby, Tasmania.

Report for the six monthly
period from the 21st December
1980 to the 22nd June 1981.

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				Registrar
Received	28 JUL 1981			E & IL
Answered				
DEPT. OF MINES				
6332/81				

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DATE: 21st July 1981

DISTRIBUTION: Department of Mines, Hobart, Tasmania.
Amdex Mining Limited, North Sydney, New South Wales.
Kibuka Mines Pty. Limited, Pioneer, Tasmania.
G. L. Morris, Hobart, Tasmania.
Australian Anglo American Limited, Melbourne, Victoria.
Australian Anglo American Limited, Launceston, Tasmania.

PROJECT:

1 : 250,000 SHEET INDEX NO.:

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1. North-Eastern Tasmania Tenement Location Map Scale 1:250,000

1.

1. INTRODUCTION

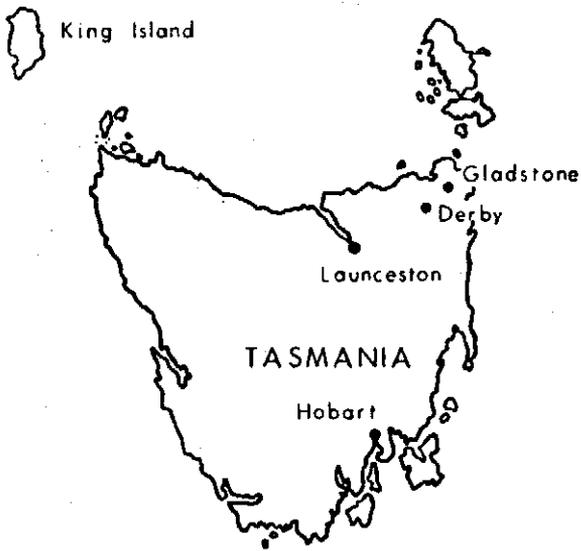
This report details exploration activity on E.L. 28/76 during the six monthly period from the 21st December 1980 to 22nd June 1981.

Discussions between Australian Anglo American Limited (A.A.A.) and the Aquitaine-Buka-Triako group of companies have resulted in a Joint Venture agreement to explore the Ringarooma valley and Great Northern Plain tin placers. Moruka Mines Pty. Limited and Kibuka Mines Pty. Limited are subsidiary companies of the Aquitaine-Buka-Triako group of companies. The tenements involved in the Joint Venture are :-

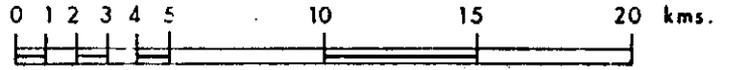
Tenement	Company
E.L. 28/76	Moruka Mines Pty. Limited
E.L. 2/77	Kibuka Mines Pty. Limited
E.L. 6/78	Kibuka Mines Pty. Limited
E.L. 5/81	Australian Anglo American Prospecting Pty. Limited
A.P. 1/80	Kibuka Mines Pty. Limited
A.P. 4/80	Kibuka Mines Pty. Limited

The location of these tenements is shown on the attached Figure 1.

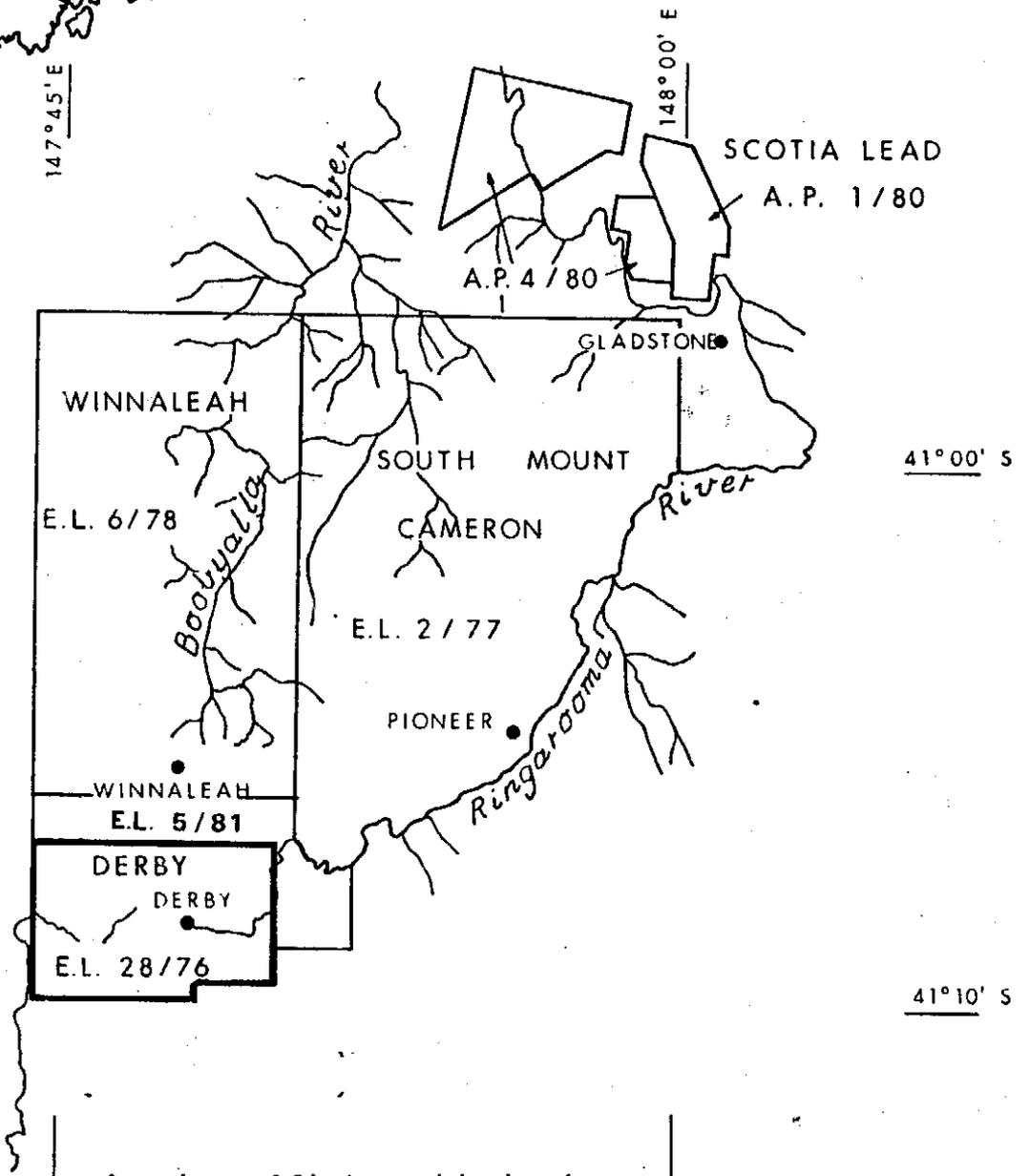
The correct approach to prospecting in the Ringarooma Valley - Great Northern Plains area appears to be to concentrate on the overall regional picture, rather than to consider discrete and separate individual mines and areas. Data from one individual tenement will have relevance to all tenements. Consequently, it is intended to investigate the group of tenements as one prospecting entity.



5 cm



Scale 1 : 250000



Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

Author:	Date:	Dwg. No.:	Fig 1
Drafting:	Report No.:	Base Plan:	

2.

2. CURRENT EXPLORATION

Australian Anglo American personnel have studied available data in records held by both the Department of Mines and Amdex Mining Limited. Accompanied by Amdex geologists, they have also made field inspections of features of geological interest including existing operations and abandoned mines at Arba, Valley and Briseis. Consequently, an hypothesis has been developed for the formation of placers in north eastern Tasmania controlled by Tertiary down warping and river capture. This hypothesis enhances the potential for deep lead tin deposits in the area. This hypothesis is described in a report by J. Newton-Smith, a copy of which has been sent to the Department.

3. PROPOSED EXPLORATION PROGRAMME

3.1 Details of Programme

Details of the proposed exploration programme are contained in a letter of the 10th July 1981 to the Director of Mines from Mr. B. McBride, of Australian Anglo American Limited.

3.2 Programme for E.L. 28/76

3.2.1 Objectives

The objective is to test either the Newton-Smith (1981) or the P.B. Nye (1924) Ringarooma Deep Lead hypothesis by exploration near the Arba Lead, Davids Creek (E.L. 2/77), and the Boobyalla Valley (E.L. 6/78).

3.2.2 Drilling

A contract has been given to Kitching Drilling Consultants for drilling with a light weight "Jetstream" reverse circulation rig. This rig should become available in October 1981.

3.

It is proposed to test for extensions of the Arba Lead by drilling in the Ringarooma valley north of Branhholm. Following compilation of all topographical, geological and drilling data, drill sites will be selected for testing by drilling. At this stage, the drilling is envisaged as a line of holes approximately 700 metres long with holes drilled to about 50 metres and spaced at 80 metre intervals.

A precise orientation for this drill line is yet to be determined. It will be located in the vicinity of Branhholm Creek (near 563300mE, 5444000mN). Drilling will be north of the pending Mineral Holdings Exploration Licence. The position of the proposed exploration is in part a compromise situation as determined by tenement boundaries. Ideally, drilling should initially be undertaken closer to Arba Hill (as recommended in the previous six monthly report). This would more clearly verify the continuance of the Branhholm Lead under Arba Hill.

3.2.2 Air Photo and Landsat Investigations

Landsat and photogeological interpretations will aim at establishing the relationship between the Ringarooma-Boobyalla valleys and the Great Northern Plains and will concentrate on geomorphic features and Tertiary to recent lineaments. This work will commence in September 1981 and will be done by an Australian Anglo American specialist photo-geologist.

3.2.4 Ongoing Research

(a) Heavy mineral data will be used to assist in determining the source of deep leads and the relationship between the Ringarooma-Boobyalla valleys.

(b) Pollen and megaf flora studies will be used to endeavour to determine the ages of the deep leads. Palaeomagnetic studies on ferruginous duricrust may also be of value.

(c) The value of further age determinations on basalts will be investigated.