

13 MAY 1982

DESD

779001

**MICROFILMED**

QAC

|                      |      |      |      |             |
|----------------------|------|------|------|-------------|
| J of M               | A.O. | C.G. | E.O. | D.S.M.E     |
| Received<br>Answered |      |      |      | 13 MAY 1982 |
| DEPT. OF MINES       |      |      |      | Registrar   |
| REP. No. 3583/82     |      |      |      | E & IL      |

PROJECT NAME: AUSTRALIAN ANGLO AMERICAN PROSPECTING PTY LTD

TRIAKO MINES N L

TITLE: RINGAROOMA JOINT VENTURE

A P 1/80

REPORT FOR THE PERIOD  
27TH JULY, 1981 TO 7TH MARCH, 1982

**OPEN FILE**

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES: SK55-4 Launceston  
5 84 000m E  
54 70 000m N

COMMODITY/IES: Tin

TEXT PAGES NO: 7

PLAN NOS: TAS-10-20 (Sheet 7182)  
TAS-10-21 (Sheet 7183)

TABLE NOS: 4

APPENDICES: 1

AUTHOR/S: R A A Munro

DATE: 20.4.82

82-1757

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

CONTENTS

1. INTRODUCTION
  - 1.1 Tenement Details
  - 1.2 Scope of Report
  
2. WORK DONE
  - 2.1 Compilation Map Work
    - 2.1.1 Map Sheets 6683/6684
    - 2.1.2 Map Sheets 7182/7183
  - 2.2 Current Active Exploration
    - 2.2.1 Rationale for the drilling programme
    - 2.2.2 Drilling method and apparatus
    - 2.2.3 Drilling results and discussion
  
3. CONCLUSIONS AND FUTURE RECOMMENDATIONS

TABLES

1. AP 1/80 Scoloch Remapping - Progress Summary Table
2. Summary Sheet of Scotia Revers Circulation Drilling
3. Information and Specifications of Drilling System
4. Sample Shed Treatment Flow Sheet

FIGURES

1. AP 1/80 Location Map
2. Scoloch Lead - Map Sheet 7182 1:1,500
3. Scoloch Lead - Map Sheet 7183 1:1,500

APPENDIX

Scotia Reverse Circulation Drill Logs

AUSTRALIAN ANGLO AMERICAN PROSPECTING PROPRIETARY LIMITEDTRIAKO MINES N LRINGAROOMA JOINT VENTUREA P 1/80REPORT FOR THE PERIOD  
27TH JULY, 1981 TO 7TH MARCH, 19821. INTRODUCTION1.1 Tenement Details

The Triako Mines N L Group and Australian Anglo American Prospecting Pty Ltd are joint venture partners over exploration licences containing cassiterite bearing placers in far north eastern Tasmania. The three major licence tenements are held by companies from the Triako Mines Group and now have a synchronized licence renewal date on 7th March, 1982. Results from exploration on these areas up to this date are being individually reported in March and April of 1982.

A summary list of the three reports is given below:

| <u>Tenement</u> | <u>Location</u>                      | <u>Area</u>        | <u>Company</u>             | <u>Reporting Period</u>  |
|-----------------|--------------------------------------|--------------------|----------------------------|--------------------------|
| EL 28/76        | Southern Portion<br>Ringarooma Basin | 33km <sup>2</sup>  | Moruka<br>Tin Pty<br>Ltd   | 22.12.81<br>to<br>7.3.82 |
| AP 1/80         | Scotia Lead<br>System Gladstone      | 10km <sup>2</sup>  | Kibuka<br>Mines<br>Pty Ltd | 27.7.81<br>to<br>7.3.82  |
| EL 2/77         | Ringarooma-<br>Boobyalla Basins      | 240km <sup>2</sup> | Kibuka<br>Mines<br>Pty Ltd | 8.9.81<br>to<br>7.3.82   |

AP 1/80, subject of this report is shown on the tenement location plan - Figure 1.

Amdex Mining Limited, a company referred to within, is Triako's operating company based at Pioneer, Tasmania.

EL 5/81, held by Australian Anglo American Prospecting Pty Ltd, is also being prospected as part of the Joint Venture.

2.

## 1.2 Scope of Report

Exploration over this eight month period has involved:-

- (a) A continuation of the review of past drilling (initiated almost two years ago).
- (b) Active exploration drilling on a lesser tested northern section of the tenement.

Neither of these two projects is finalised and further work proposals are outlined in Section 3.

## 2. WORK DONE

### 2.1 Compilation Map Work

The problems associated with an inadequate, sometimes inaccurate, dated and incomplete data base for the heavily investigated Scotia lead system were fully recognized by early 1980 following the drilling of fifteen percussion holes by Amdex Mining Limited. Relating this drilling to previous campaigns was difficult. An outline of the tasks necessary to rectify these problems was included in the six monthly report for the period ending 26th July 1980. Planning, preliminary drawing and base survey work were carried out during the following reporting period. Maps of four of the most intensively drilled central southern portion were produced in the autumn and winter of 1981 and included in the last report for this area.

Drafting of sheets has been at a diminished rate during this period. Survey problems and work commitments in other areas, particularly associated with the spring drilling programme are the main reasons for this drop in output. An outline of progress to date and future work planned is listed in Table 1.

#### 2.1.1 Map Sheets 6683/6684

These two sheets collectively embrace the old Scotia Mine workings, and extend to the Ringarooma River. An extension of the B J Walkem and Co Pty Ltd (December, 1980) survey was undertaken in August 1981. Its aim was to extend stations to the old mine face and tie in old drill holes on these sheets. Stations have now been established from the south east corner of the Mt Cameron Water Race on the Dredge Road, south to the mine face. Only five holes could be resurveyed in this area, because thick vegetation prevented hole relocation.

## 3.

Work and surveying on these two sheets have not been finalised due to a major unresolved discrepancy between Mines Department maps and written logs. Because of the variance between these data sources, for the 320m of lead between the end of the workings and the first line (Hole 40 to Hole 76Z, Sheet 6784) on the first intensely drilled area, 95% of the drilling is inadequately located. Bore series affected are the twenty eight Pioneer Mining Company bores and thirteen Government bores. Work on these sheets has now been suspended.

#### 2.1.2 Map Sheets 7182/7183

To support the recent drilling (section 2.1.2), it has been necessary to produce the maps for the northern end of Scotia Reserve before the intervening central sheets. Maps 7182 and 7183 accompany this report as Figures 2 and 3 respectively.

These two maps are considered to have a lower standard of accuracy than previous sheets. This is despite the input of considerable time and effort. Problems encountered in this map production are:

- (a) The major problem is the irreconcilable positioning of the 1935-44 Mines Department drill hole locations. This conclusion is made after many hours of hole searching (with moderate success), surveying, check surveying and map plotting for best fit.
- (b) Resurveying of many holes on lines containing "D" and "F" series bores was undertaken. Holes critical in re-establishing the numbering sequence could not be definitely located. These bore lines also diverge at a greater angle than shown on the original charts.
- (c) Written information for many of the Mines Department "B" series bores in this area is ambiguous or incorrect.
- (d) The present position of the most "down-lead" drill line on the prospect - Line E - cannot be verified as most holes plot on freehold land belonging to the North East Pastoral Co. This land has been sown to pasture.

A statement that confident relocation, both horizontally and in plan, is not possible for this area, has been added to Figures 2 and 3.

## 2.2 Current Active Exploration

Seven holes were drilled in early November on Scoloch Lead sheet 7182 (Figure 2) along a single line. Summary results data about this programme is listed in Table 2. Full results are on the drill logs attached as an appendix.

### 2.2.1 Rationale for the drilling programme

Drilling in the extreme northern end of the Scoloch Lead was to be commensurate with an exploration programme over an area called AP 4/80 held by Kibuka Mines Pty Ltd last year. Exploration was designed to examine similarities in sediment type, basement type and placer level between these two properties. Previous exploration and geological mapping is favourable for a continuous placer system linking the known areas of cassiterite mineralisation.

In the event of the loss of prospecting rights to AP 4/80 in November 1981, testing of this theory has not been possible. However, the drilling planned for the Scoloch Lead was deemed to be of sufficient merit in its own right. The drilling was expected to clarify the following questions about the portion of the lead least understood.

- (a) Does the Scoloch Lead divide about the position of drill holes 2F-10F as depicted on BMI basement maps?
- (b) What are the implications of an apparent change in gutter dip direction centred on hole 7D?
- (c) Is there scope for a large, low-grade tonnage of cassiterite at a moderate depth in this area as the lead appears to widen?
- (d) Does the change in basement type between the Mathinna Group basement (up to line F) and the Jurassic Dolerite-Cretaceous? black muds-impure sands and conglomerate imply a structural event related to the Boobyalla Basin?

### 2.2.2 Drilling Apparatus and Technique

Drilling equipment employed and its specifications is listed in Table 3.

Samples were collected at the surface in large plastic bags. A 2 metre sample interval from the surface was standard practice. Sediment type was continuously monitored by a geologist. All changes were noted and appear in the drill logs, appended herein. Each day, samples were conveyed to the Amdex Mining Limited sample treatment shed at Pioneer where they were treated according to the accompanying flow sheet (Table 4).

### 2.2.3 Drilling Results and Discussion

The Scotia Reverse Circulation bore line (SRC bores) bisect part of the Scoloch Lead defined by two lines of former sample drilling. It is closer to a line of six more recent auger holes which are parallel, 80 metres to the south east.

Six holes totalling 189.8 metres were satisfactorily completed. Of the six, four needed more than a single pass to reach basement. Hole SRC1 was less than satisfactory, requiring at least six rig moves before the lower portion was sampled. By this time SRC1a was 23 metres south west of the original commencement hole.

Drilling defined a gutter which is still open to the north east. The width of the almost flat bottomed trough is in excess of 170 metres. Within this trough, reasonably constant levels of basal, five metre thick cassiterite mineralisation has been recorded, over four holes. Surface to basement grades<sub>3</sub> for these four holes ranged from 74-122g SnO<sub>2</sub>/m<sup>3</sup>.

At this juncture, it is perhaps applicable to cite results from two test holes at Pioneer which suggest that Jetstream 100 grades using the same 80% Radford Factor as 160cm surge drilling may undervalue the drilling by up to a factor of two.

Sediment type for the Tertiary sediments in the trough show similarities in character between holes. Clay lenses are most common in the upper section of the sequence. Woody and humic materials have been recovered in moderate quantities from the 12-24 metre levels. Sub-rounded to sub-angular quartz gravel and pebbles (wash) is present below 14-20 metres in each hole.

6.

Clays and impure silts predominate in the alluvial sequence above the two holes with shallow basement. Two types of basement rock were encountered on the SRC line. Dolerite was reported for the two shallow holes, SRC2 and SRC3. This material was mostly weathered to a mottled green-grey-white clay with remnant nodules of less decomposed rock. A rock consisting of mainly small random prismatic crystals of fresh labradorite and ophitic, poikilitic crystals of Ti-augite incipiently serpentised. Accessory minerals are magnetite and apatite needles. The fabric is verging on gabbroic, with random orientation. The rock is a Jurassic dolerite.

The remaining four holes terminated in the typical "marine bottom" basement, common under sediments to the north in the Fosters Marsh area. The material recovered was highly variable and for most holes ranged from dark brown to grey medium tenacity clays, sometimes with organic fragments to impure and often darkly coloured soft siltstone and sandstone, occasionally veined with authigenic minerals.

The SRC drill line is in a transition zone of the Scoloch Lead system. Its character is changing from a narrow sinuous entrenched channel upstream to a broad flattish sheet further north into the Fosters Marshes area.

The change to the basement geology in this area may be related to the south west faulted margin of the Cretaceous? Boobyalla Basin which is a graben type structure with an apex tapering towards this test region. Between the SRC and "F" lines of holes, the basement levels of the lead rise about 15 metres in the opposite direction to the general gradient of the Scoloch Lead. This may be caused by post-graben formation and post-placer deposition tectonics for a compensating nature.

### 3. CONCLUSIONS AND FUTURE RECOMMENDATIONS

This drilling was undertaken to help answer the four questions stated in section 2.2.1. The drilling and associated mapping has clarified several points including the first question. The basement anomaly has been confirmed though the shape, mechanism and geological implications are not fully understood. Further drilling may improve the indicated grade and extent of mineralisation because of doubts as to the precision of the Jetstream 100 sampling and because existing drilling has not closed off the mineralisation to the northeast.

Drilling proposals, probably timed as a 1982 winter surge drilling programme are:

- (a) A re-drill of SRC1 to check the indicated grade.
- (b) A continuation of the drill line east of SRC6.
- (c) Holes normal to the SRC Line to the south to determine the continuity of mineralisation and to further elucidate basement structure.

  
R A A Munro

Approved by

  
R J Kernick  
Exploration Manager

RAAM/pmck

779010

TABLE 1

A.P. 1/80

Scoloch

REMAPPING PROGRESS SUMMARY TABLE

7.3.82

| Map sheet | Approx. No. of Drill Holes on Map Sheet | % completion of base map | % completion of associated surveying | % treatment of basic hole data | % completion of location/grade/B.R.L. map | % completion basement contour map | % completion geological reserves map + calculations |
|-----------|---|--------------------------|--------------------------------------|--------------------------------|---|-----------------------------------|---|
| 6683      | 5                                       | 90                       | 0                                    | 50                             | 0   | 0                                 | 0   |
| 6684      | 30                                      | 90                       | 40                                   | 60                             | 25  | 0                                 | 0   |
| 6783      | 45                                      | 100                      | 100                                  | 100                            | 100                                       | 30                                | 0   |
| 6784      | 450                                     | 100                      | 100                                  | 100                            | 100                                       | 0                                 | 0   |
| 6785      | 5                                       | 90                       | 60                                   | 100                            | 0   | 0                                 | 0   |
| 6883      | 170                                     | 100                      | 100                                  | 100                            | 100                                       | 0                                 | 0   |
| 6884      | 60                                      | 100                      | 100                                  | 100                            | 100                                       | 0                                 | 0   |
| 6983      | 200                                     | 90                       | 60                                   | 20                             | 5   | 0                                 | 0   |
| 6984      | 20                                      | 90                       | 80                                   | 25                             | 5   | 0                                 | 0   |
| 7082      | 20                                      | 90                       | 20                                   | 10                             | 0   | 0                                 | 0   |
| 7083      | 70                                      | 90                       | 20                                   | 10                             | 0   | 0                                 | 0   |
| 7084      | 15                                      | 90                       | 80                                   | 15                             | 0   | 0                                 | 0   |
| 7182      | 65                                      | 100                      | 100                                  | 100                            | 100                                       | 0                                 | 0   |
| 7183      | 35                                      | 100                      | 100                                  | 100                            | 100                                       | 0                                 | 0   |

Estimated man hours

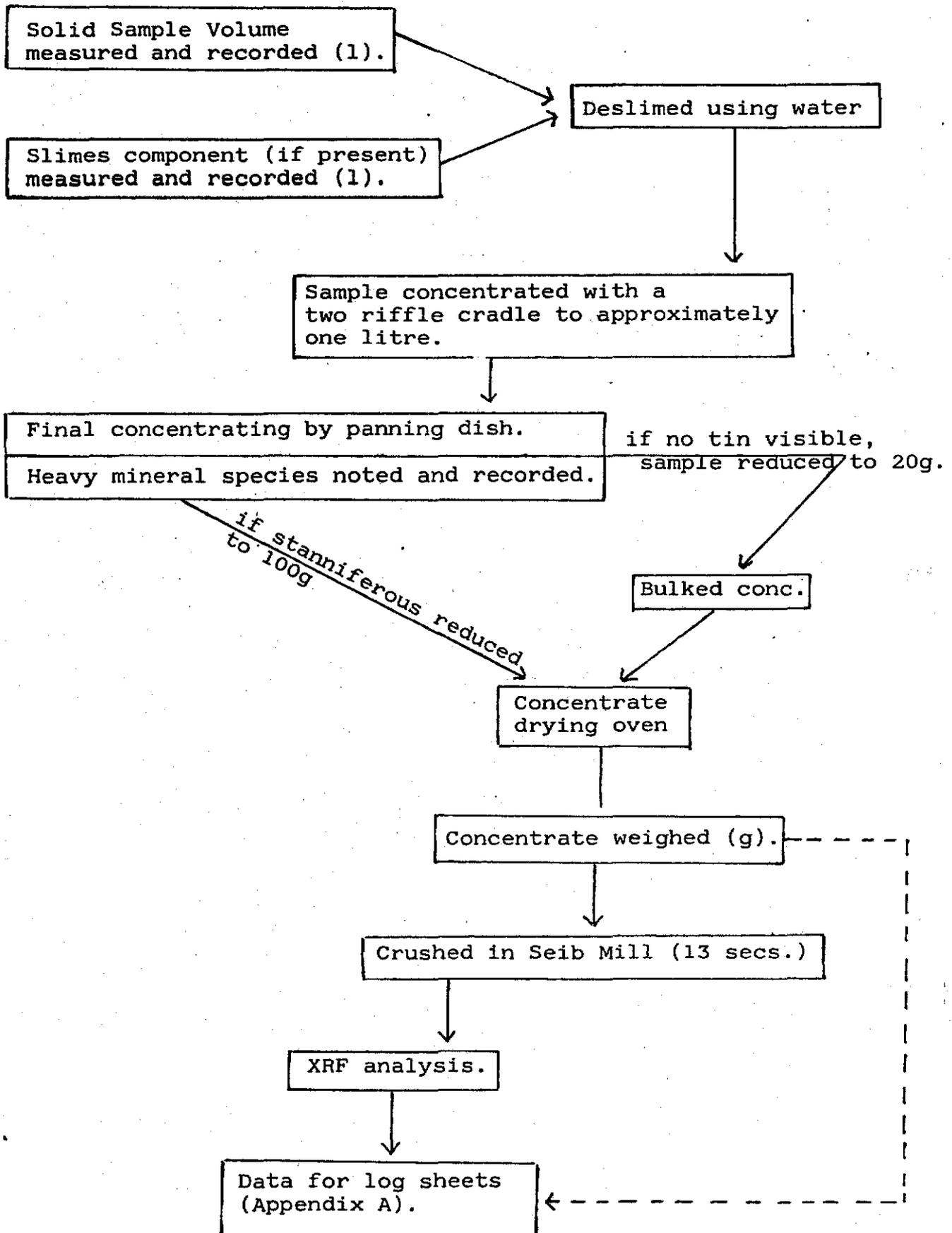
## Report for period:

|                    |     |    |     |     |   |   |
|--------------------|-----|----|-----|-----|---|---|
| 27.1.81 to 26.7.81 | 175 | 75 | 125 | 100 | 4 | 0 |
| 26.7.81 to 7.3.82  | 30  | 45 | 35  | 25  | 0 | 0 |



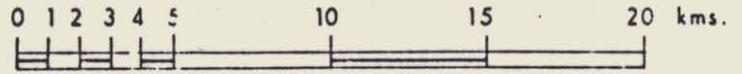
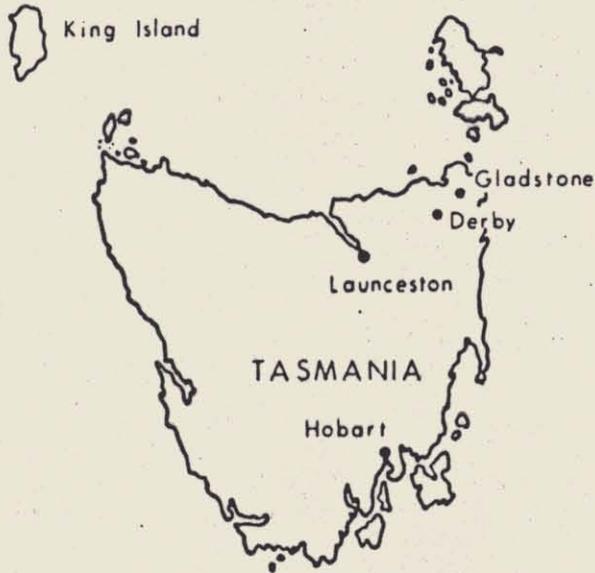
TABLE 3INFORMATION AND SPECIFICATIONS OF DRILLING SYSTEM

|   |   |
|---|---|
| DRILL TYPE                                    | Jetstream 100   |
| DRILL MANUFACTURER                            | Kitching Drilling Consultants and Supplies Pty Ltd  |
| DRILL CONTRACTOR                              | As above  |
| ADDRESS                                       | Salisbury, Brisbane, Queensland   |
| System Type                                   | Dual tube, air-water reverse circulation  |
| Rig Carrier                                   | Modified 4x4 Turbo Toyota Landcruiser   |
| Ancillary Equipt                              | Modified 4x4 Turbo Toyota Landcruiser water tanker and surplus rod carrier. Trailer with spares. Trailer mounted diesel compressor                                |
| Nominal Rod Diameter                          | 60mm (BQ)   |
| Inner Tube Coupling Method                    | Inner pipe rigidly attached to outer pipe   |
| ID of Inner tube                              | 35mm  |
| Types of bits available (sometimes hardfaced) | Clay Bit with three tungsten carbide inserts. Two types of general purpose bits with four tungsten carbide inserts. "Rock" bit with six tungsten carbide inserts. |
| Stroke of Drill                               | 3m  |
| Rotational Torque                             | 1202 J (900ft/lbs)  |
| Pull Out                                      | Approx. 3100kg  |
| Pull Down                                     | Approx. 3100kg  |
| Water Pump                                    | Capable of 11.5 gpm to 700 psi  |
| Compressor                                    | Rated 125 cfm but modified to 100 cfm @ 150 psi.  |

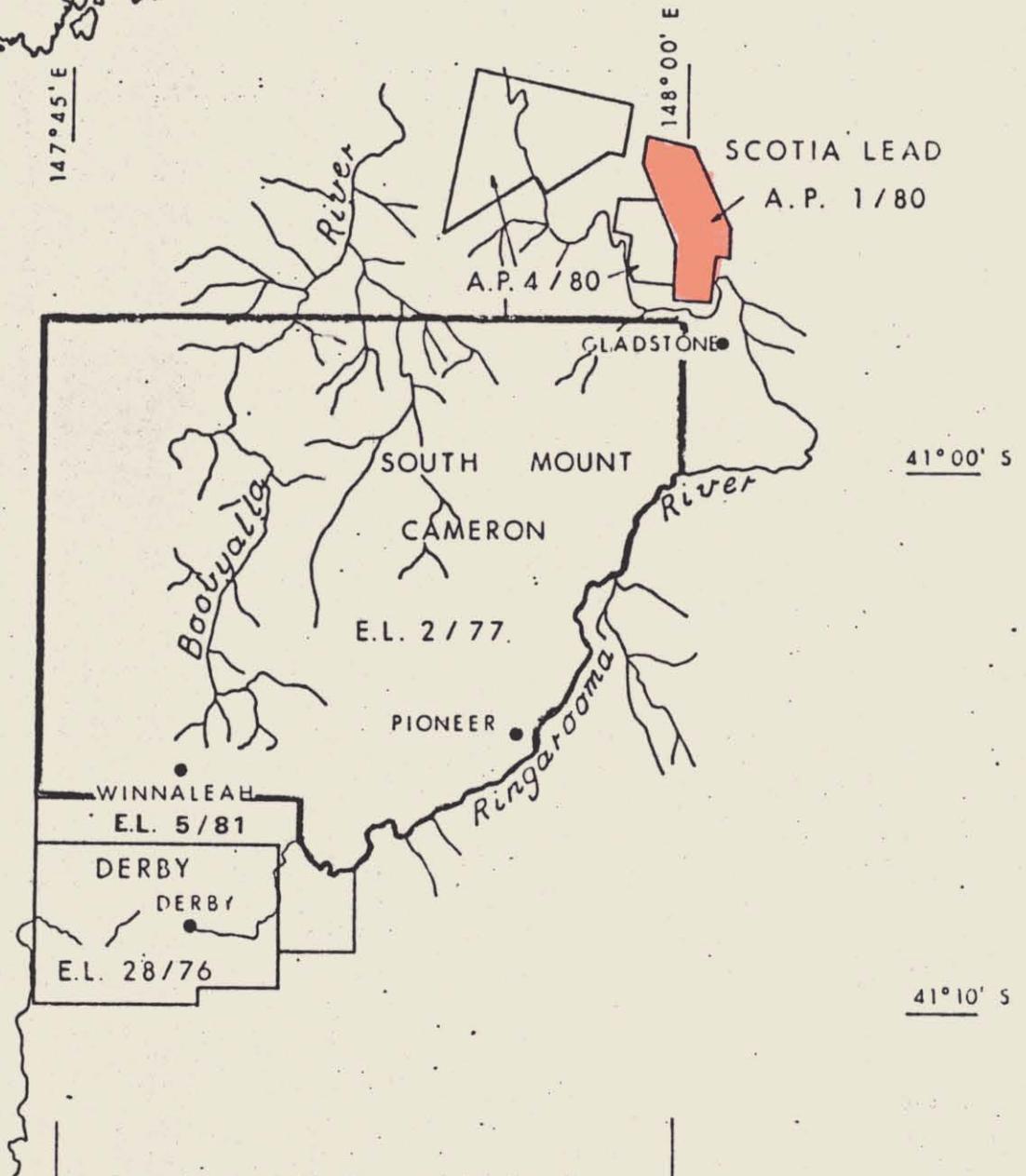
SAMPLE SHED TREATMENT FLOW SHEETTABLE ①

779014

5 cm



Scale 1 : 250000



### NORTH - EASTERN TASMANIA LOCATION MAP

|          |             |           |
|----------|-------------|-----------|
| Author   | Date        | Dwg. No.: |
| Drafting | Report No.: | Base Plan |

Fig 1

APPENDIX 1

# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA Hole No.: SRC1 Collar Co-ordinates: 5471557 mN, 582913 mE Drilling Method: Kitching Reverse Circulation

Surface R.L.: 22.72 m Basement R.L.: - m Cutting Shoe / Bit diameter: 61mm Theoretical Volume: 5.84 litres

Date: 4/11/81 Driller: G. Morgan Assistant: E. Hodgson Sample Washer: S. Moore Geologist: R. Munro

| Section Metres |    | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * gSnO <sub>2</sub> /m <sup>3</sup> | Grade + gSnO <sub>2</sub> /m <sup>3</sup>   | Description of Sample |
|----------------|----|------------|----------------------|------------------|-------------------|------------------------------------|---|---|-----------------------|
| From           | To |            |                      |                  |                   |                                    |   |   |                       |
| 0              | 2  |            | 2.50LTRS             | 84.6             | 2.04              |                                    | 39.2                                      | 0-4m f. sand, some humus, minor brown silt<br>4-6m " " brown silt, drift, minor c. sand<br>6-8.5m drift, f. sand, light brown silt, minor c. sand<br>8.5-9m grey tenacious clay |                       |
| 2              | 4  |            | 3.50                 |                  |                   |                                    | 39.2                                      | 8-10m grey silty clay & f. sand<br>10-12m brown silty clay of moderate tenacity, wood fragments   |                       |
| 4              | 6  |            | 5.00                 |                  |                   |                                    | 39.2                                      | 12-14m f. to med. sand, dark brown silts, drifts, sm. amount wood fragments<br>14-16m drift, brown silt, f. sand, quartz wash to 3cm, sm. amount wood fragments                 |                       |
| 6              | 8  |            | 2.50                 |                  |                   |                                    | 39.2                                      | 16-18m drift, brown silt, f. sand, quartz wash, minor wood fragments, minor grey gritty clay  |                       |
| 8              | 10 |            | 4.00                 |                  |                   |                                    | 39.2                                      | 18-22m f. sand, drift, light brown silt, sm. amount clay, sub-angular quartz wash<br>22-29m sand, drift, sub-angular quartz wash, brown silts                                   |                       |
| 10             | 12 |            | 2.75                 |                  |                   |                                    | 39.2                                      | Hole terminated at 29m after numerous attempts to extend below this depth   |                       |
| 12             | 14 |            | 5.00                 |                  |                   |                                    | 39.2                                      | <u>Mineralogical Description</u>  |                       |
| 14             | 16 |            | 4.75                 |                  |                   |                                    | 39.2                                      | 0-10 Tr. ilmenite<br>10-12 tr. pyrite   |                       |
| 16             | 18 |            | 4.75                 |                  |                   |                                    | 39.2                                      | 12-14 pyrite<br>14-16 ilmenite, pyrite  |                       |
| 18             | 20 |            | 5.00                 |                  |                   |                                    | 39.2                                      | 16-18 v.f. tr. tin, ilmenite, pyrite<br>18-20 tr. ilmenite, pyrite  |                       |
| 20             | 22 |            | 8.00                 |                  |                   |                                    | 39.2                                      | 20-22 tr. f. tin, ilmenite<br>22-24 tr. f. tin, pyrite  |                       |
| 22             | 24 |            | 7.25                 |                  |                   |                                    | 39.2                                      | 24-28 sm. amount tin, ilmenite<br>28-29 tin, ilmenite, pyrite   |                       |
| 24             | 26 |            | 6.75                 | 113.0            | 1.66              | 2.68                               | 397.0                                     |   |                       |
| 26             | 28 |            | 10.00                | 125.1            | 2.77              | see 1(a)                           |   |   |                       |
| 28             | 29 |            | 3.00                 | 108.6            | 4.95              | see 1(a)                           |   |   |                       |

\* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Radford factored theoretical volume to recovered tin Rad.F = 80%  
 Drillers reported basement at .....m. Grade from surface to inferred basement at .....m..... g SnO<sub>2</sub> / m<sup>3</sup> \*  
 Total recovered volume, surface to basement.....l. at.....m..... g SnO<sub>2</sub> / m<sup>3</sup> +  
 Total recovered tin..... 2.68 gSnO<sub>2</sub>

779016



# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA Hole No.: SRC2 Collar Co-ordinates: 5471465 mN 582602 mE Drilling Method: Kitching Reverse Circulation

Surface R.L.: 25.91 m Basement R.L.: 14.91 m Cutting Shoe / Bit diameter: 61mm Theoretical Volume: 5.84 litres.

Date: 4/11/81 Driller: G. Morgan Assistant: E. Hodgson Sample Washer: S. Moore Geologist: R. Munro

| Section |       | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * gSnO <sub>2</sub> /m <sup>3</sup> | Grade + gSnO <sub>2</sub> /m <sup>3</sup>  | Description of Sample |
|---------|-------|------------|----------------------|------------------|-------------------|------------------------------------|---|--|-----------------------|
| From    | To    |            |                      |                  |                   |                                    |   |  |                       |
| 0       | 2     |            | 2.50LTRS             | 115.9            | 0.02              | 0.03                               | 0.9                                       | 0-4m brown, slightly humic med. sand<br>0.5-1m gritty dark brown silts, rare pebble size particles of brown iron cemented silt<br>1-2m impure gritty silts of moderate tenacity<br>2-4m grey impure, moderately tenacious clay impurities include c. sand sized feldspar particles & f. sand (quartz sand) |                       |
| 2       | 4     |            | 3.50                 |                  |                   |                                    | 0.9                                       | 4-6m dark grey to black clays of high tenacity with minor yellow mottling  |                       |
| 4       | 6     |            | 5.50                 |                  |                   |                                    | 0.9                                       | 4-8m yellow to grey impure clays, impurities inc. ironoxide coated drilt, quartz sand & minor clay pellets   |                       |
| 6       | 8     |            | 2.25                 |                  |                   |                                    | 0.9                                       | 8-10m yellow & grey brown impure silty clays, soft iron cemented particles of granule in pebbles size & minor f. sand  |                       |
| 8       | 10    |            | 3.00                 |                  |                   |                                    | 0.9                                       | 10-12m green grey soft to moderately tenacious clay a few decomposed dolerite particles  |                       |
| 10      | 12    |            | 3.50                 |                  |                   |                                    | 0.9                                       | 12-14.8m mottled green to grey to white clay, decomposed dolerite chips & core.  |                       |
| 12      | 14    |            | 4.50                 |                  |                   |                                    | 0.9                                       | Dolerite basement at 11m   |                       |
| 14      | 14.80 |            | 2.00                 |                  |                   |                                    | 0.9                                       | Mineralogical Description  |                       |
|         |       |            |                      |                  |                   |                                    |   | 0-4 Tr. ilmenite   |                       |
|         |       |            |                      |                  |                   |                                    |   | 4-12 no tr. of mineral   |                       |
|         |       |            |                      |                  |                   |                                    |   | 12-14 Tr. ilmenite   |                       |
|         |       |            |                      |                  |                   |                                    |   | 14-14.80 Tr. ilmenite, pyrite  |                       |

\* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Radford factored theoretical volume to recovered tin Rad.F = 80%  
 Drillers reported basement at 11 m. Grade from surface to inferred basement at ..... m ..... g SnO<sub>2</sub> / m<sup>3</sup> \*  
 Total recovered volume, surface to basement ..... l. at ..... 11 ..... m ..... 1 ..... g SnO<sub>2</sub> / m<sup>3</sup> +  
 Total recovered tin ..... 0.03 ..... gSnO<sub>2</sub>

779018

# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA Hole No.: SRC3 Collar Co-ordinates: 5471486 mN 582680 mE Drilling Method: Kitching Reverse Circulation

Surface R.L.: 24.69 m Basement R.L.: 9.69 m Cutting Shoe / Bit diameter: 61mm Theoretical Volume: 5.84 litres.

Date: 5/11/81 Driller: G. Morgan Assistant: E. Hodgson Sample Washer: S. Moore Geologist: R. Munro

| Section                          |    | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * (gSnO <sub>2</sub> /m <sup>3</sup> ) | Grade † (gSnO <sub>2</sub> /m <sup>3</sup> ) | Description of Sample  |
|----------------------------------|----|------------|----------------------|------------------|-------------------|------------------------------------|--|--|--|
| From                             | To |            |                      |                  |                   |                                    |  |  |  |
| <u>Mineralogical Description</u> |    |            |                      |                  |                   |                                    |  |  |  |
| 0                                | 2  |            | 2.75LTRS             | 923.8            | 0.02              | 0.26                               |  | 3.7  | 0-12 Tr. ilmenite<br>12-14 Tr. tin, ilmenite, pyrite                         |
| 2                                | 4  |            | 7.00                 |                  |                   |                                    |  | 3.7  | 14-16 Tr. tin, pyrite<br>16-18 Lge amount pyrite                             |
| 4                                | 6  |            | 2.75                 |                  |                   |                                    |  | 3.7  | 18-22 " "<br>22-26 pyrite  |
| 6                                | 8  |            | 2.75                 |                  |                   |                                    |  | 3.7  |  |
| <u>Log of Sediments</u>          |    |            |                      |                  |                   |                                    |  |  |  |
| 8                                | 10 |            | 2.25                 |                  |                   |                                    |  | 3.7  | 0-2 grey and off white clay containing iron stained silts. F. drift          |
| 10                               | 12 |            | 3.00                 |                  |                   |                                    |  | 3.7  | 2-4 light grey tenacious clay mottled with yellow clay. F. sand, minor drift |
| 12                               | 14 |            | 14.50                |                  |                   |                                    |  | 3.7  | 4-6 f. sand, drift, light brown silt & clay                                  |
| 14                               | 16 |            | 6.00                 |                  |                   |                                    |  | 3.7  | 6-12 f. sand, drift, minor white silt<br>12-26 drill logs lost               |
| 16                               | 18 |            | 6.25                 |                  |                   |                                    |  | 3.7  | Dolorite basement  |
| 18                               | 20 |            | 5.25                 |                  |                   |                                    |  | 3.7  |  |
| 20                               | 22 |            | 4.75                 |                  |                   |                                    |  | 3.7  |  |
| 22                               | 24 |            | 3.25                 |                  |                   |                                    |  | 3.7  |  |
| 24                               | 26 |            | 4.00                 |                  |                   |                                    |  | 3.7  |  |

\* Grade calculated by relating recovered volume to recovered tin † Grade calculated by relating Radford factored theoretical volume to recovered tin Rad.F = 80%  
 Drillers reported basement at 15 m. Grade from surface to inferred basement at 15 m. g SnO<sub>2</sub> / m<sup>3</sup> \*  
 Total recovered volume, surface to basement = 1. at 15 m. 6 g SnO<sub>2</sub> / m<sup>3</sup> †  
 Total recovered tin 0.26 g SnO<sub>2</sub>

779019

# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA..... Hole No.: SRC4..... Collar Co-ordinates: 5471510..... mN 582752..... mE Drilling Method: Kitching Reverse Circulation

Surface R.L.: 21.48..... m Basement R.L.: -5.52..... m Cutting Shoe / Bit diameter: 61mm..... Theoretical Volume: 5.84..... litres.

Date: 5/11/81..... Driller: G. Morgan..... Assistant: B. Hodgson..... Sample Washer: S. Moore..... Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * gSnO <sub>2</sub> /m <sup>3</sup> | Grade + gSnO <sub>2</sub> /m <sup>3</sup> | Description of Sample   |
|---------|--------|------------|----------------------|------------------|-------------------|------------------------------------|---|---|---|
| From    | To     |            |                      |                  |                   |                                    |   |   |   |
| 0       | 2      |            | 3.25LTRS             | 133.4            | 0.67              | 1.28                               |   | 20.0                                      | 0-2m dark grey to brown gravel clasts sub-angular to angular granule size quartz minor feldspar(?)<br>2-4m as above light grey in colour<br>4-6m white & grey gravelly clay med. tenacity clasts as above |
| 2       | 4      |            | 4.00                 |                  |                   |                                    |   | 20.0                                      | 6-8m white & grey clay med. tenacity<br>8-10m brown f. sand grains sub-angular quartz with minor mica   |
| 4       | 6      |            | 3.75                 |                  |                   |                                    |   | 20.0                                      | 10-12m grey gravel clasts granule size sub-angular to angular quartz with minor feldspar(?) one rounded quartz pebble   |
| 6       | 8      |            | 5.00                 |                  |                   |                                    |   | 20.0                                      | 12-14m grey c. sand to gravel clasts up to granule size composition as above  |
| 8       | 10     |            | 3.25                 |                  |                   |                                    |   | 20.0                                      | 14-16m as above<br>16-18m light grey clay med. tenacity with minor dark carbonaceous fragments  |
| 10      | 12     |            | 5.00                 |                  |                   |                                    |   | 20.0                                      | 18-20m light grey clayey f. sand with quartz grains & minor carbonaceous fragments  |
| 12      | 14     |            | 5.25                 |                  |                   |                                    |   | 20.0                                      | 20-22m light brown & grey c. sand grains sub-angular to angular quartz minor sub-rounded lithics & mica with some carbonaceous fragments  |
| 14      | 16     |            | 6.00                 |                  |                   |                                    |   | 20.0                                      | 22-24m light brown gravel clasts sub-rounded to angular quartz with minor carbonaceous material and clay & mica   |
| 16      | 18     |            | 4.75                 |                  |                   |                                    |   | 20.0                                      | 24-26m as above becoming grey in colour<br>26-28m dark grey, green & white mottled gritty clay low tenacity   |
| 18      | 20     |            | 3.25                 |                  |                   |                                    |   | 20.0                                      | 28-30m hole finished at 29m due to inability to continue, redrilled twice both stopping 18m   |
| 20      | 22     |            | 9.00                 |                  |                   |                                    |   | 20.0                                      | <u>Mineralogical Description</u>  |
| 22      | 24     |            | 7.00                 |                  |                   |                                    |   | 20.0                                      | 0-6 Tr. ilmenite 6-8 Tr. of v.f. tin, pyrite<br>8-10 Tr. of v.f. tin, pyrite, ilmenite  |
| 24      | 26     |            | 9.50                 | 112.6            | 1.45              | 2.33                               |   | 245.5                                     | 10-12 ilmenite, pyrite 12-14 tr. of f tin, ilmenite, pyrite. 14-16 pyrite, ilmenite 16-22 ilmenite  |
| 26      | 28     |            | 7.50                 | 119.4            | 3.23              | 5.51                               |   | 734.6                                     | 22-24 pyrite, ilmenite 24-28 sm. amount tin, pyrite<br>28-29 lge amount pyrite  |
| 28      | 29     |            | 3.00                 | 327.1            | BLD               |                                    |   | 0   |   |

\* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Radford factored theoretical volume to recovered tin Rad.F = 80%  
 Driller's reported basement at 27.....m. Grade from surface to inferred basement at.....m..... g SnO<sub>2</sub> / m<sup>3</sup> \*  
 Total recovered volume, surface to basement.....l. at.....27.....m..... 90..... g SnO<sub>2</sub> / m<sup>3</sup> +  
 Total recovered tin.....9.12.....gSnO<sub>2</sub>

779020

# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA Hole No.: SRC5 Collar Co-ordinates: 5471529 mN 582836 mE Drilling Method: Kitching Reverse Circulation

Surface R.L.: 21.99 m Basement R.L.: -6.01 m Cutting Shoe / Bit diameter: 61mm Theoretical Volume: 5.84 litres

Date: 5/11/81 Driller: G. Morgan Assistant: E. Hodgson Sample Washer: S. Moore Geologist: R. Munro

| Section Metres |    | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * gSnO <sub>2</sub> /m <sup>3</sup> | Grade † gSnO <sub>2</sub> /m <sup>3</sup>   | Description of Sample |
|----------------|----|------------|----------------------|------------------|-------------------|------------------------------------|---|---|-----------------------|
| From           | To |            |                      |                  |                   |                                    |   |   |                       |
| 0              | 2  |            | 1.75LTRS             | 140.1            | 0.68              | 1.36                               | 24.2                                      | 0-2m brown med. to f. sand grains subrounded to angular quartz well sorted<br>2-4m brown clayey med. to c. sand grains angular quartz and minor sub-angular feldspar(?)                                       |                       |
| 2              | 4  |            | 3.25                 |                  |                   |                                    | 24.2                                      | 4-6m light grey clayey granular gravel clasts well sorted sub-angular to angular quartz<br>6-8m light grey clayey med. to f. sand with rare angular granule size clasts, grains sub-rounded to angular quartz |                       |
| 4              | 6  |            | 3.50                 |                  |                   |                                    | 24.2                                      | 8-10m brown well sorted c. sand to granular gravel clasts sub-angular to angular quartz, minor carbonaceous material & mica   |                       |
| 6              | 8  |            | 3.25                 |                  |                   |                                    | 24.2                                      | 10-12m as above   |                       |
| 8              | 10 |            | 3.00                 |                  |                   |                                    | 24.2                                      | 12-14m as above but with abundant carbonaceous (woody) material   |                       |
| 10             | 12 |            | 4.00                 |                  |                   |                                    | 24.2                                      | 14-16m brown med. sand to gravel with minor pebble fraction clast angular to sub-angular quartz, woody fragments & mica   |                       |
| 12             | 14 |            | 2.50                 |                  |                   |                                    | 24.2                                      | 16-18m grey med. sand to clay med. tenacity<br>18-20m brown c. sand to granular gravel clasts sub-rounded to angular quartz with minor woody & micaceous material   |                       |
| 14             | 16 |            | 2.75                 |                  |                   |                                    | 24.2                                      | 20-22m brown granule-pebble gravel clasts angular to sub-rounded quartz with minor sandstone(?)   |                       |
| 16             | 18 |            | 2.50                 |                  |                   |                                    | 24.2                                      | 22-24m as above<br>24-26m as above  |                       |
| 18             | 20 |            | 3.00                 |                  |                   |                                    | 24.2                                      | 26-28m as above<br>28-30m dark grey-chocolate clay med.-high tenacity   |                       |
| 20             | 22 |            | 3.25                 |                  |                   |                                    | 24.2                                      | 30-32m as above<br>32-34m as above<br>34-36m grey f. sandstone to siltstone   |                       |
| 22             | 24 |            | 2.00                 |                  |                   |                                    | 24.2                                      | contains pyrite<br>36-38m as above  |                       |
| 24             | 26 |            | 1.00                 | 141.8            | 0.33              | 0.69                               | 143.0                                     |   |                       |
| 26             | 28 |            | 4.25                 | 90.0             | 1.18              | 1.52                               | 324.4                                     |   |                       |
| 28             | 30 |            | 5.75                 | 86.3             | 1.08              | 1.33                               | 284.7                                     |   |                       |

\* Grade calculated by relating recovered volume to recovered tin † Grade calculated by relating Radford factored theoretical volume to recovered tin Rad.F=80%  
 Drillers reported basement at 28 m. Grade from surface to inferred basement at ..... m ..... g SnO<sub>2</sub> / m<sup>3</sup> \*  
 Total recovered volume, surface to basement ..... l. Contd./..Sheet 2 at ..... 28 ..... m ..... 74 ..... g SnO<sub>2</sub> / m<sup>3</sup> +  
 Total recovered tin ..... g SnO<sub>2</sub>

779021



# AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: SCOTIA Hole No.: SKC6 Collar Co-ordinates: ..... mN ..... mE Drilling Method: .....

Surface R.L.: ..... m Basement R.L.: ..... m Cutting Shoe / Bit diameter: ..... Theoretical Volume: ..... litres.

Date: 6/11/81 Driller: ..... Assistant: ..... Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO <sub>2</sub> ) | Grade * (gSnO <sub>2</sub> /m <sup>3</sup> ) | Grade + (gSnO <sub>2</sub> /m <sup>3</sup> ) | Description of Sample  |
|---------|--------|------------|----------------------|------------------|-------------------|------------------------------------|--|--|--|
| From    | To     |            |                      |                  |                   |                                    |  |  |  |
| 0       | 2      |            | 1.00LTRS             | 129.1            | 0.75              |                                    |  |  | 0-2m light brown-grey f.-c. sand, sub-rounded to sub-angular minor dark lithics & feldspar<br>2-4m white sandy clay of med. tenacity<br>4-6m as above  |
| 2       | 4      |            | 2.00                 |                  |                   |                                    |  |  | 6-8m light grey granular gravel well sorted class sub-angular to angular quartz with minor lithics   |
| 4       | 6      |            | 5.00                 |                  |                   |                                    |  |  | 8-10m light grey med.-c. sand, clasts as above<br>10-12m as above  |
| 6       | 8      |            | 2.75                 |                  |                   |                                    |  |  | 12-14m as above becoming brown in colour with wood fragments<br>14-16m brown c. sand to granular gravel, clasts sub-rounded to angular quartz with minor cassiterite (?) or carbonaceous fragments |
| 8       | 10     |            | 5.00                 |                  |                   |                                    |  |  | 16-18m as above  |
| 10      | 12     |            | 2.75                 |                  |                   |                                    |  |  | 18-20m light grey med. c. sand grains sub-rounded to sub-angular quartz & minor lithics  |
| 12      | 14     |            | 3.50                 |                  |                   |                                    |  |  | 20-22m brown granular-pebbly gravel sub-angular to angular quartz, woody fragments & some clay & sandstone   |
| 14      | 16     |            | 5.25                 |                  |                   |                                    |  |  | 22-24m as above<br>24-26m brown c. sand to granular gravel clasts as above   |
| 16      | 18     |            | 6.00                 |                  |                   |                                    |  |  | 26-28m as above grey colour<br>28-30m med. grey sandy clay, med. tenacity  |
| 18      | 20     |            | 3.50                 |                  |                   |                                    |  |  | 30-32m med. to dark grey sandy clay<br>32-34m dark grey med. tenacity clay   |
| 20      | 22     |            | 7.00                 |                  |                   |                                    |  |  | 34-36m as above<br>36-38m initially as above then dark black-green veined metasandstone  |
| 22      | 24     |            | 7.00                 |                  |                   |                                    |  |  | 38-39m metasandstone as above  |
| 24      | 26     |            | 4.75                 |                  |                   |                                    |  |  |  |
| 26      | 28     |            | 10.25                | 98.4             | 2.96              |                                    |  |  |  |
| 28      | 30     |            | 8.00                 | 118.2            | 2.74              |                                    |  |  |  |

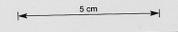
\* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Radford factored theoretical volume to recovered tin Rad F = 80%  
 Drillers reported basement at ..... m Grade from surface to inferred basement at ..... m  
 Total recovered volume, surface to basement ..... l at ..... m  
 Total recovered tin ..... gSnO<sub>2</sub> at ..... m

779023





NOTE: SURVEYING BY AMDEX HAS FAILED TO RESOLVE PREVIOUS MAPPED MISTAKES. MANY OLD HOLES HAVE BEEN RELOCATED. THE NUMBERING SEQUENCE FOR 'D' & 'F' BORES IS BY BEST FIT. 'E' LINE IS SCALED, i.e. POSITION VAGUE.



779025 81-1757

## AMDEX MINING LTD. - SCOLOCH LEAD.

### SHEET - 7182

| DRILL HOLE LEGEND |                                      | DATE          | Drilling Method          |
|-------------------|--------------------------------------|---------------|--------------------------|
| □                 | Amdex Mining Ltd.                    | 1978 onwards  | Perussion, special Auger |
| □                 | L. J. Groves (Mines Department)      | 1971          | Perussion                |
| □                 | B. M. I. Mining Ltd.                 | 1971-12, 1979 | Perussion                |
| □                 | B. M. I. Mining Ltd.                 | 1970-73       | Auger - non sample       |
| □                 | Utah Development Co.                 | 1965-66       | Auger                    |
| □                 | Storax Creek Tin Mining Co. N.L.     | 1961-65       | Perussion                |
| □                 | Rio Tinto Aus. Exploration Pty. Ltd. | 1958          | Perussion                |
| □                 | Mines Department - Roubidoux         | 1935-44       | Cable Sling, Handpick    |
| □                 | Pioneer Tin Mines Co. - Emma Esros   | 1916          | Handpick                 |
| □                 | Mines Department - Griffins Esros    | 1902          | Handpick                 |
| □                 | Australian Anglo American Ltd.       | 1981          | Reverse Circulation      |

|  |  |
|--|--|
| <p>□ Depth to Basement (m)</p> <p>□ Exploration Company Symbol</p> <p>□ Drill Hole Number</p> <p>□ Grade - Surface to Basement (g 702 Sn/m<sup>3</sup>)</p> <p>□ Basement A.L. (m)</p> | <p>DATE - 6 MARCH</p> <p>DATA - R. MUNRO</p> <p>DRAWN - BASE - C. MURHEAD</p> <p>HEIGHT - DATUM - A.H.D.</p> <p>GRID - A. M. G.</p> <p>AAA No. TAS-10-20</p> |
|--|--|

54 72000 m N

71900 m N

71800 m N

71700 m N

71600 m N

71500 m N

71400 m N

71300 m N

71200 m N

71100 m N

71000 m N

70900 m N

70800 m N

70700 m N

70600 m N

70500 m N

70400 m N

70300 m N

70200 m N

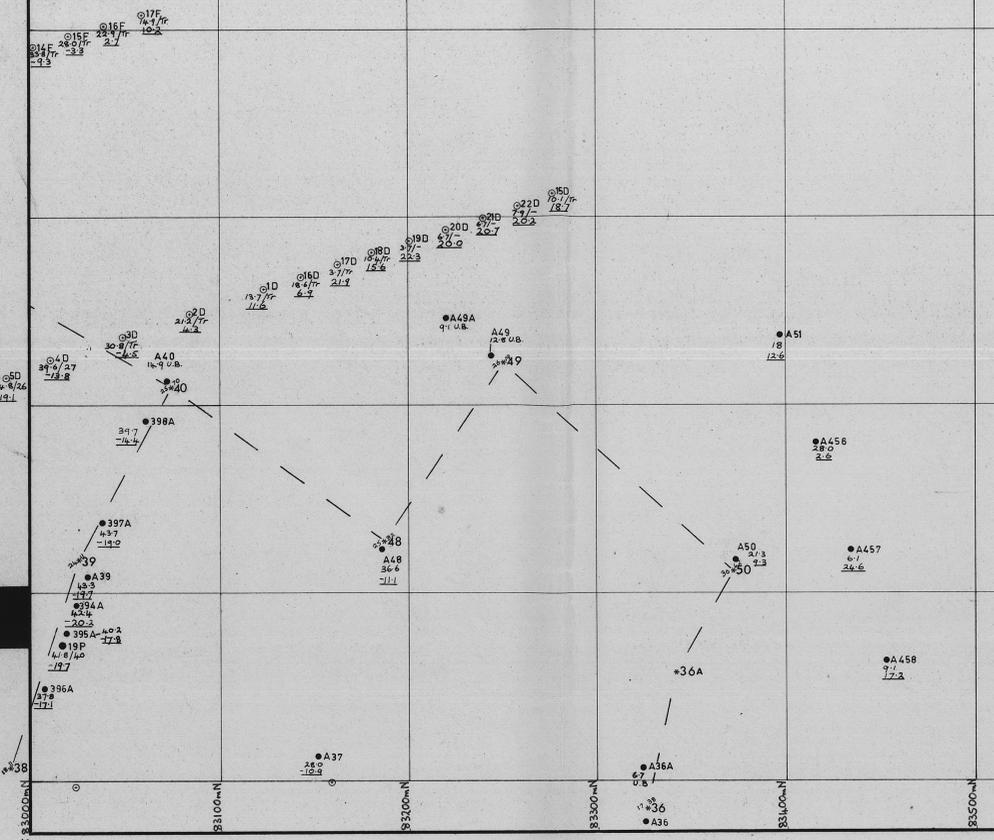
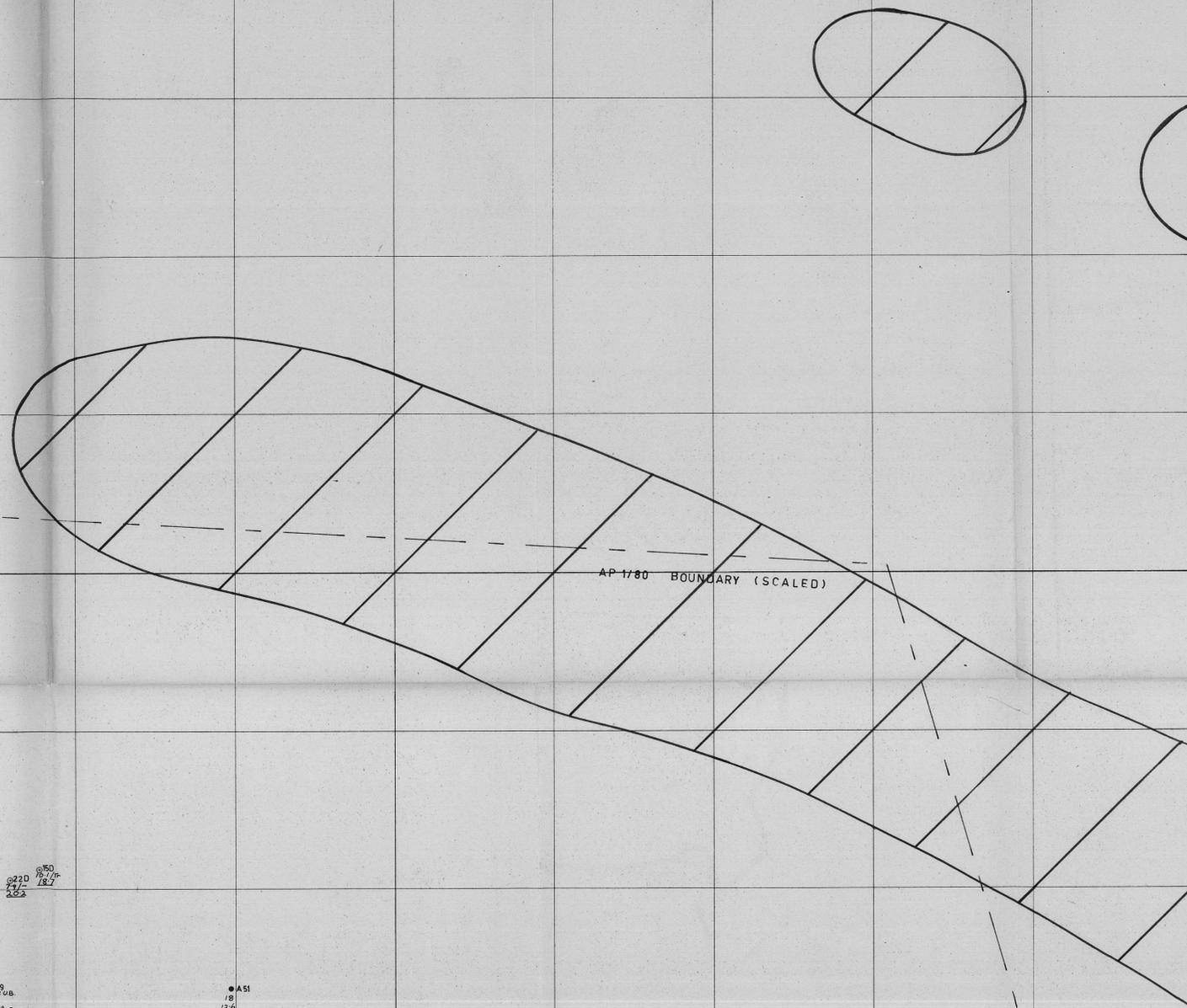
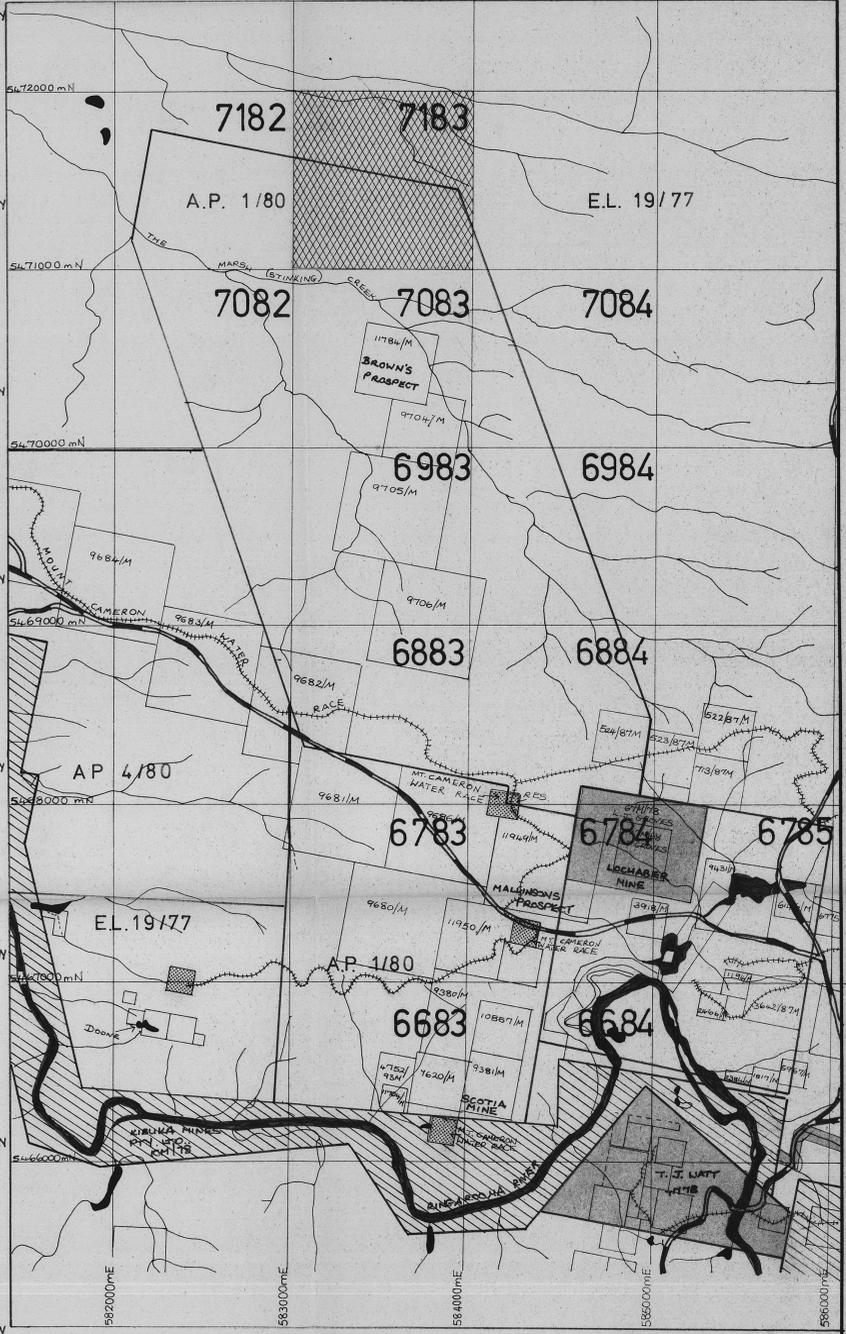
70100 m N

70000 m N

69900 m N

69800 m N

69700 m N



779026



PARMEENER SUPER GROUP. Float & Limited Outcrop.

# AMDEX MINING LTD. - SCOLOCH LEAD

DRILL HOLE LEGEND

| Symbol   | Company                              | Date          | Drilling Method         |
|----------|--------------------------------------|---------------|-------------------------|
| (Symbol) | Amdex Mining Ltd.                    | 1978 onwards  | Reverson, several types |
| (Symbol) | I. J. Gove (Mines Department)        | 1971          | Reverson                |
| (Symbol) | B.M.I. Mining Ltd.                   | 1971-72, 1974 | Reverson                |
| (Symbol) | Utah Development Co.                 | 1970-73       | Ruger - non sample      |
| (Symbol) | Stange's Creek Tin Mining Co. N.L.   | 1955-60       | Ruger                   |
| (Symbol) | Rio Tinto Pty. Exploration Pty. Ltd. | 1946-45       | Reverson                |
| (Symbol) | Mines Department - Bonmahon Bore     | 1958          | Reverson                |
| (Symbol) | Parker Tin Mining Co. - Ryans Bore   | 1935-44       | Cable, Surge, Handplant |
| (Symbol) | Mines Department - Griffins Bore     | 1910          | Handplant               |
| (Symbol) | Mines Department - Griffins Bore     | 1910          | Handplant               |
| (Symbol) | Mines Department - Griffins Bore     | 1902          | Handplant               |

SHEET - 7183

| Symbol   | Description                             |
|----------|---|
| (Symbol) | Depth to Basement (m)                   |
| (Symbol) | Exploration Company Symbol              |
| (Symbol) | Drill Hole Number                       |
| (Symbol) | Grade, Surface to Basement (g 10% Sn/m) |
| (Symbol) | Basement R.L. (m)                       |

48 SURVEY STATION WITH SPOT HEIGHT & SURVEY LINE.

NOTE ON SHEET 7182 APPLICABLE.

| LOCATION     | NE. TASMANIA      |
|--------------|-------------------|
| SCALE        | 1:1500            |
| DATE         | -11 MARCH 1982    |
| DATA         | -R. MUNRO         |
| DRAWN        | -BASE-C. MUIRHEAD |
| HEIGHT DATUM | -A. H. D.         |
| GRID         | -A. M. G.         |
| AAA No       | TAS-10-21         |