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AMDEX MINING LIMITED
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GIPPSLAND MINERALS N.L., KIBUKA MINES PTY. LTD.
169 MILLER STREET, NORTH SYDNEY. AUSTRALIA 2060

TECHNICAL REPORT

MICROFILMED

SCOTIA LEAD, TASMANIA
A.P. 1/80

REPORT FOR THE SIX MONTH PERIOD
ENDING 26 JULY, 1980.

DESG

OPEN FILE

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INVESTIGATIONS CONDUCTED BY: KIBUKA MINES PTY. LIMITED

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SUMMARY

During the period, 13 percussion holes were drilled to test the grade and extent of cassiterite mineralisation within 2 lesser studied portions of the Scotia Lead Placer System.

The task of evaluating and correlating the large amount of data from earlier drilling programmes carried out by various companies and the government has been hampered by a number of factors including suspected surveying errors, the lack of uniform scale base maps, and the necessity to convert earlier data to metric form. Future drilling by Amdex will largely depend on the resolution of these problems.

INTRODUCTION

This report summarises the results of investigations of Scotia Lead for the six month period ending 26 July, 1980.

Permission to explore reserves SR166/67 and SR1975 No. 198^{1976?} was granted to Kibuka Mines Pty. Limited as from 23 July, 1976. Renewal of this Authority to Prospect (now called AP1/80) has been granted for eight successive periods since that date. The location of this 10 square kilometre area is shown on Figure 1.

CURRENT ACTIVITYDrilling

During the period, two lesser drilled sections of the Scotia Lead system were selected for investigation. Thirteen percussion holes totalling 485 metres of drilling, were completed by a hired Mines Department rig.

Exploration was centred on the two areas (shown in blue on Figure 2) for the following reasons:-

1. The location and width of the lead is not adequately defined in these lesser investigated sections.
2. There is a necessity for further payable sections of the lead system to be proven, especially between the known orebodies.
3. Despite the magnitude of earlier drilling carried out by other companies and the government, much of the data cannot at present be effectively utilized by Amdex for the purpose of supplementary drilling.

Only 20 percent of the earlier drill holes have been located in the field to date. This precludes supplementary drilling in many areas.

AREA 1 (Detailed in Figure 3)

Five holes were drilled, consisting of a line of four holes (AS4 to AS7) and a single hole AS8, on a B.M.I. line. Data on this drilling is summarized on Table 1. Drilling was sited here to further test the lead between Mines Department Reserve Blocks 2 and 3. This drilling has aided in locating the slightly meandering centre of the Scotia paleo-channel. The results reinforce the concept of a narrow, moderately steep sided channel entrenched in Mathinna Beds between wider sections of the lead represented by ore reserve 2 and 3. The mineralized sub-economic section of the lead shown in Figure 3 appears to average 100 to 200g SnO₂/m³ over a maximum width of 15 metres. This grade and width could not support a mining operation.

Five "cassiterite abundance-sediment type" associations have been tentatively identified from this current drilling.

1. A shallow surface horizon, usually limited to less than the first two metre sample interval. Ferruginous sands, clays and rarer rounded quartz wash lie below a skeletal soil.

Thickness: Less than 2 metres
Average Grade: 30g SnO₂/m³

2. The dominant middle horizon of horizontally bedded sands, silts, fine angular quartz gravels and grits, humic rich silts and clay, small angular wash and white clay bands. A higher secondary pyrite component is found at lower depths. Fine cassiterite is associated with similar sized grains of monazite and ilmenite. All heavy minerals are only present in trace amounts.

Thickness: 28-42 metres
Average Grade: 5g SnO₂/m³

3. Rare horizons of mineralized wash, sands and humic clays accompanied by a coarse grade of cassiterite. This is an infrequent sub-unit of 2.

Thickness: Less than 2 metres
Typical Grade Range: 50-300g SnO₂/m³

4. Poorly mineralized pyritized sands, grits, wash and humic clays. Typical basal wash sequence for holes on the flanks of the paleo-channel. Not always differentiable in bore holes from 2.

Thickness: 0-6 metres
Typical Grade: 60g SnO₂/m³

5. Mineralized, basally situated sands, small to large wash, grits and humic clays. Generally represented in the central region of the gutter. For this area only recorded in LP8, which contained significant basal mineralization including one perfectly formed cassiterite crystal of 4 - 5mm; greatest dimension.

Thickness: 0-4 metres
Typical Grade: 500g SnO₂/m³+

AREA 2 (Detailed in Figure 4)

In this area, a section of the Scoloch Lead has been more accurately defined. The sinuosity of this part of the channel was not appreciated at the start of investigations. The onset of seasonal wet weather terminated drilling in the central part of this section before the position of the lead could be fully resolved.

This section of the Scoloch Lead was found to be similar in character to the part of the Scotia Lead tested in Area 1. The economic to sub-economic width of the paleo-channel may be slightly wider, corresponding with gentler channel slopes. Grades in the centre of the paleo-channel range 100-250g SnO₂/m³ over an average width of 35 metres for the length of the lead plotted in Figure 4. The actual width varies from 60 metres at the Southern End through several constrictions down to 20 metres. Results indicate that a downlead extension to the Mines Department Ore Block 6 is improbable.

The five units and sub-units used to categorise sections of bore holes AS4 to AS8 can also be applied to Holes AS9 - AS18. Comments pertaining to each unit are listed below:-

1. Surface unit: Thinner, less consistently developed, diminished cassiterite enrichment.
2. Main middle unit: Similar in sediment type, perhaps a high small wash content. Several metres thinner, higher average grade of 9g SnO₂/m³.
3. Rare, mineralized middle sub-unit: Identified as stringers of mineralized wash in AS9, 12 and 14. Average grade 100g SnO₂/m³.

4. Lower, poorly mineralized wash unit: Present in all holes.
5. Mineralized, basal channel wash unit: Present in AS9, 10 and 14.

WORK OUTSIDE THE SCOTIA RESERVE

Drilling outside the Scotia Reserve has been conducted on an integral part of this placer system-the middle and upper end of the Locharber Lead. Exploration is being undertaken under a six month option agreement which expires in August.

Due to juxtaposition of these areas held under mineral lease with the Scotia Lead the results of this exploration are of considerable consequence. If mining and grade reserves are sufficient to establish a viable mining operation, a valuable insight into mining conditions and aspects of geological assessment will be provided. The Scotia Lead and the Locharber Lead appear very similar in regard to topography, drainage conditions, geology and water supply needs.

The Locharber option exploration results will be presented in a separate report once assessment is completed. The area under consideration is coloured brown on Figure 2.

The approximate position of the lead is sketched in green. The underlying basement contours on this plan are often outdated or incorrect.

Comments On Past Investigations - Scotia Lead System

Geological data in its existing state and form on the Scotia Lead system is moderately amenable to such review exercises as superficial overviews or broad scale reserve calculations. However, for additions of fresh data as that gathered during the recent drilling, the deficiencies of previous investigations are readily apparent. These shortcomings are most serious in regard to working base maps, reliability of the information already recorded, and ease of using this existing data since metrification.

The enormous task of rectifying the above problems can be appreciated with the aid of Table 2: over twelve hundred drill holes have been bored on a thousand hectare area. It is thus difficult to rectify such difficulties without a large manpower and/or monetary input. For example, a quotation for vertically and horizontally controlled orthophoto maps covering the area at 1:2,000 (1 metre contour) was almost \$24,000. Plotting of the existing drilling information on such detailed maps would also be a large task.

At present Amdex uses maps produced by B.M.I. Mining. This procedure is unsatisfactory since true to scale transparencies of a quality suitable for reproduction are unobtainable. Amdex have obtained poor Rank Xerox half reduction transparencies of all maps in J.C. Standard's July 1971 (Q24/12) and July 1972 (Q24/13) reports. Figure 2 in this report is the best obtainable dyeline copy of one of these transparencies. This figure is approximately 1:8,000 scale, while its original (as in Standard's reports) is close to 1:4,000. It and all other maps are non-metric with arbitrary height and grid datums and only sketchy geographical features. The map mentioned above is a revamped copy from Utah Development Company report No. 130 (1964) Plate 6.

Fig 2 (this report) is a reduction of original Henderson/Blake work.
M.D. Plan
360

For greater detail, B.M.I. have produced maps at approximate 1:750 scale using data from maps produced by Blake (1955). During the period under review, Amdex has studied several of these 16 maps. The Government drilling (1935 - 1944) depicted on them is generally not locatable in the field. The accuracy of its surveyed position therefore cannot readily be verified. Moreover, the B.M.I. Mining data on these charts is unreliable. Holes are frequently incorrectly located. Although less than 10% of B.M.I. hole collar elevations have been survey checked by Amdex, numerous mistakes have already been found.

For illustrative purposes, several examples are described below:-

EXAMPLE I

Upon comparison of the surveys used to produce Figure 3 in this report with plans from the B.M.I. Mining Limited contract surveyor (Q24/12, Figure 41) and plans by Standard (Q24/12, Figure 16 and Q24/13, Figure 15) none were found to agree. The following mistakes are suspected:-

- (A) B.M.I. hole A61 was misplaced at least 10 metres to the south in a survey on 15/1/71.
- (B) In the process of transcribing results from the 15/1/71 survey to Standard's plan holes A57, A58 and A59 have been displaced by up to 5 metres.
- (C) B.M.I. holes drilled at a later date (A399, A400, A403 and A404) have been drawn on Standard's maps without being surveyed. A later survey by a company surveyor, G. I. Fisher, found these holes to have been incorrectly located. It has been determined from his letter dated 12/1/73 that the average error in collar elevation for these four holes is one metre.

It is suspected that 50% of the B.M.I. auger hole locations have been estimated in this manner, and therefore that the plotted locations and surface elevations of holes 1S to 21S and A399 to A465, which appear in Standard's open file report, may be inaccurate. In Standard's last report (Q24/14) surface elevation corrections were made.

EXAMPLE 2

Auger holes A405, A406 and A410 near the Locharber Mine were both plotted by Standard (Q24/13, Q24/14) and later surveyed by G.I. Fisher in positions up to 85 metres from the true positions of these holes, as determined by labelled stakes bearing these hole numbers.

Evidence suggests that Fisher could not locate these holes in the field due to the erroneous plan produced by Standard (Q24/13, Figure 16), and that, consequently, spot heights were taken of their suspected, rather than actual, locations.

EXAMPLE 3

After surveying all the drill holes shown on Figure 4 of this report, Amdex has discovered that the height datum for the first set of holes (15/1/71 survey) does not coincide with the reduced height datum of the later series (14S - 18S) surveyed in 1973. The discrepancy is in the order of half a metre.

FUTURE ACTIVITIES

From the previous discussion it is readily apparent that much checking in the field and amongst records at the Mines Department and at South Mount Cameron, together with recalculations and drafting work, is necessary.

The task of evaluating and correlating the existing data would be carried out for each area as the need arose and in the following sequence:-

1. Accurately photo reduce or photo enlarge the B.M.I. 1:750 charts to a suitable small scale - 1:1000 and/or 1:2000.
2. Completely check the 15/1/71 G.I. Fisher survey (some dumpy pegs have already been located).
3. Tie some of these survey points into the State Grid.
4. A hole location map could then be drafted and amended as all locatable holes are surveyed. A.H.D. and A.M.G. control for all maps is desirable.

Amdex believes that the Scotia Lead would be most amenable to hydraulic mining methods incorporating a gravel pump system, and future reassessment and appraisal work will be carried out with that technique in mind.

A recent brief review has indicated that future drilling would be most usefully located close to the old Scotia Mine workings and in the centre of north east flowing tributary defined by Utah - B.M.I. in the vicinity of the Dredge Road.

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TABLE 1

AMDEX MINING LIMITED - NORTH EAST TASMANIA - DRILLING SUMMARY

AREA: SCOTIA

YEAR: 1978-80

DRILLING METHOD: 6" PERCUSSION

| Hole No. | Sheet No. | Surface R.L. | Basement R.L. | Depth Drilled (m) | Depth to Basement (m) | Area of influence (m ²) | Volume (m ³) | Total rec volume to basement (m ³) | Total rec SnO ₂ (g) | Grade * (gSnO ₂ /m ³) | Contained SnO ₂ (kg) | Grade + (gSnO ₂ /m ³) | Contained SnO ₂ (kg) | Grade [■] (gSnO ₂ /m ³) | | | | |
|----------|-----------|--------------|---------------|-------------------|-----------------------|-------------------------------------|--------------------------|--|--------------------------------|--|---------------------------------|--|---------------------------------|---|--|--|--|--|
| S1 | N3 W2 | ≈ 47.5 | 2.4 | 45.7 | 45.1 | | | | | | | 28 | | | | | | |
| S2 | N3 W2 | ≈ 48.2 | 3.7 | 44.8 | 44.5 | | | | | | | 54 | | | | | | |
| S3 | N3 W2 | ≈ 47.2 | 18.2 | 30.5 | 29.0 | | | | | | | 6 | | | | | | |
| AS4 | S1 E1 | 87.12 | 50.12 | 40 | 37.0 | | | | | | | 29 | | | | | | |
| AS5 | S1 E1 | 84.43 | 37.43 | 48 | 47.0 | | | | | | | 29 | | | | | | |
| AS6 | S1 E1 | 84.02 | 44.52 | 41 | 39.5 | | | | | | | 8 | | 13 | | | | |
| AS7 | S1 E1 | 82.90 | 46.40 | 38 | 36.5 | | | | | | | 7 | | 10 | | | | |
| AS8 | S1 E1 | 79.56 | 38.56 | 48 | 41.0 | | | 532.5 | 26.94 | | | 41 | | 51 | | | | |
| AS9 | N2 W1 | 54.16 | 16.16 | 39 | 38.0 | | | 428.4 | 111.35 | | | 182 | | 260 | | | | |
| AS10 | N2 W1 | 54.73 | 14.43 | 41 | 40.3 | | | 486.0 | 62.46 | | | 96 | | 129 | | | | |
| AS11 | N2 W1 | 54.67 | 23.27 | 33 | 31.4 | | | 291.7 | 5.79 | | | 11 | | 20 | | | | |
| AS12 | N2 W1 | 53.69 | 19.89 | 35 | 33.8 | | | 432.5 | 28.63 | | | 53 | | 66 | | | | |
| AS13 | N2 W1 | 52.36 | 18.96 | 35 | 33.4 | | | 393.7 | 25.73 | | | 48 | | 65 | | | | |
| AS14 | N2 W1 | 52.72 | 13.92 | 40 | 38.8 | | | 530.0 | 146.18 | | | 250 | | 276 | | | | |
| AS15 | N2 W1 | 53.24 | 18.84 | 35 | 34.4 | | | 421.7 | 13.89 | | | 25 | | 33 | | | | |
| AS16 | N2 W1 | 52.60 | 21.20 | 33 | 31.4 | | | 394.7 | 13.59 | | | 27 | | 34 | | | | |
| AS17 | N2 W1 | 51.54 | 17.04 | 36 | 34.5 | | | 431.5 | 9.53 | | | 17 | | 22 | | | | |
| AS18 | N2 W1 | 51.10 | 22.10 | 31 | 29.0 | | | 374.0 | 8.99 | | | 19 | | 24 | | | | |
| TOTALS | | | | 595 | $\bar{x}=36.9$ | | | | | | | \bar{x} | 52 | | | | | |

* Grade calculated by relating recorded volume to recovered tin

Author: R. Munro.

+ Grade calculated by relating basements recorded volume to recovered tin (Ass. Rec. = 30%)

Date: May 1980

■ Grade calculated by relating recovered tin to recovered volume surface to basement

| NAME OF DRILLING CONCERN | DATE | NUMBER OF HOLES | TOTAL DRILLING (metres) | AVERAGE DEPTH TO BASEMENT (metres) | AVERAGE GRADE g SnO ₂ /m ³ | COMMENTS |
|------------------------------------|------------|-----------------|-------------------------|------------------------------------|--|-------------------------------------|
| Government | 1902 | 32 | * | * | * | Griffins Bores |
| " | 1916 | 5 | 88.4 | 17.0 | Tr | Roaches Bores - Mallinsons Lease |
| " | 1916 | 13 | 142.2 | 10.0 | Tr | Roaches Bores - Galloways Lease |
| Pioneer Tin Mining Co. | circa 1916 | 28 | 485.4 | 17.3 | * | Ryans Bores - Scotia Mine |
| Government | 1935-44 | 855 | 23,821.0 | 27.9 | * | The main boring campaign |
| Rio Tinto Aust. Exp. Pty. Ltd., | 1958 | 12 | 298.1 | 26.3 | 38 | 3 scout holes, 9 check holes |
| Storeys Creek Tin Mining Co. | 1964-65 | 19 | 702.6 | 36.9 | 193 | Check boring campaign |
| Utah Development Co. | 1965-66 | 45 | 431.9 | 9.6 | N/A | Peripheral - Auger scout lines |
| B.M.I. Mining Pty. Ltd. | 1970-74 | 173 | 3962.4 | * | N/A | Auger hole- non sample |
| | | 23 | * | * | * | Sample holes |
| Andex Mining Ltd., | 1978-79 | 5 | 209 | 40.5 | 29 | |
| Andex Mining Ltd., | 1980 | 13 | 485 | 35.5 | 60 | Current Drilling |
| TOTALS | | 1223 | 30,626+ | | | |

* Not yet computed or information incomplete.

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No: A.S.6 Collar Co-ordinates: mN mE Drilling Method Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.03 cm Theoretical Volume: 40.3 litres

Date: 31.1.80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: B. Shean Geologist: R. Munro

| Section | | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|----|--------|------------|----------------------|---------------------|------------------|------------------------------------|---|---|--|
| From | To | | | | | | | | | |
| 0 | 2 | | 7494 | 14.5 | 154.5 | 0.30 | 0.66 | 45.6 | 20.6 | Fine brown silty sand, topsoil, small wash, trace of tin, ilminite. |
| 2 | 4 | | 7495 | 37.9 | | | | 6.3 | 4.0 | Fine sand, brown coarse sand, Trace of ilminite. |
| 4 | 6 | | 7496 | 25.0 | | | | 6.3 | 4.0 | As above. |
| 6 | 8 | | 7497 | 30.2 | | | | 6.3 | 4.0 | Sand, yellow sandy clay. Trace ilminite. |
| 8 | 10 | | 7498 | 12.5 | | | | 6.3 | 4.0 | Sand, Trace pyrite, monozite & ilminite. |
| 10 | 12 | | 7499 | 25.0 | | | | 6.3 | 4.0 | Sand, white clay, Trace of ilminite, pyrite. |
| 12 | 14 | | 7500 | 21.0 | | | | 6.3 | 4.0 | sand, large drift, small wash. trace ilminite, monozite. |
| 14 | 16 | | 9201 | 13.3 | 15 grouped samples. | | | 6.3 | 4.0 | sand, large drift, white clay, Trace monozite. |
| 16 | 18 | | 9202 | 17.3 | 125.4 | 1.09 | 1.95 | 6.3 | 4.0 | Fine sand, coarse sand & drift. Trace monozite. |
| 18 | 20 | | 9203 | 19.7 | | | | 6.3 | 4.0 | Sand, brown clay. Trace of monozite. |
| 20 | 22 | | 9205 | 18.1 | | | | 6.3 | 4.0 | sand, large drift. Trace of monozite. |
| 22 | 24 | | 9205 | 18.1 | | | | 6.3 | 4.0 | sand, organic silt, large drift. small trace tin, pyrite & monozite. |
| 24 | 26 | | 9206 | 11.7 | | | | 6.3 | 4.0 | Sand, large drift, small wash, brown clay. trace fine tin, pyrite, monozite. |
| 26 | 28 | | 9207 | 19.7 | | | | 6.3 | 4.0 | sand, large drift, organic silt, trace fine tin pyrite. |
| 28 | 30 | | 9208 | 16.1 | | | | 6.3 | 4.0 | sand, grey clay. Trace fine tin, pyrite, ilminite. |

* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Raaford factored theoretical volume to recovered tin Raaf.F = 80%
 Drillers reported basement at 39.5 m. Grade from surface to inferred basement at m g SnO₂ / m³ +
 Total recovered volume, surface to basement 412 l at 39.5 m 8.3 g SnO₂ / m³ +
 Total recovered tin g SnO₂ at 39.5 m 12.9 g SnO₂ / m³ +

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No.: A-S-7 Collar Co-ordinates: mN mE Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.03 cm Theoretical Volume: 40.3 litres

Date: 7/2/80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|--------|------------|----------------------|--------------------|-------------------|------------------------------------|---|---|---|
| From | To | | | | | | | | |
| 0 | 2 | 9215 | 30.2 | 127.8 | 0.38 | 0.69 | 22.9 | 21.5 | Black topsoil, C&F sand, small wash, brown cement. small amount of tin, ilminite. |
| 2 | 4 | 9216 | 35.9 | | | | 4.9 | 3.8 | C&F. sand, heavy drift, grey & yellow clay. Trace of monozite & ilminite. |
| 4 | 6 | 9217 | 28.6 | | | | 4.9 | 3.8 | C&F. sand, heavy drift. Trace of monozite & ilminite. |
| 6 | 8 | 9218 | 17.7* | | | | 4.9 | 3.8 | C&F. sand, heavy drift, yellow clay. Trace of ilminite & monozite. |
| 8 | 10 | 9219 | 22.2* | | | | 4.9 | 3.8 | C&F. sand, heavy drift, Pyrite, monozite & ilminite. |
| 10 | 12 | 9220 | 35.9 | | | | 4.9 | 3.8 | C&F. sand, heavy drift. Ilminite & monozite. |
| 12 | 14 | 9221 | 20.2 | | | | 4.9 | 3.8 | C&F. sand, white clay. Monozite & ilminite. |
| 14 | 16 | 9222 | 18.1 | 15 grouped samples | | | 4.9 | 3.8 | C&F. sand, brown clay. Monozite & ilminite. |
| 16 | 18 | 9223 | 24.9 | 126.2 | 1.01 | 1.82 | 4.9 | 3.8 | C&F. sand, heavy drift, white clay. Monozite & ilminite. |
| 18 | 20 | 9224 | 24.9 | | | | 4.9 | 3.8 | C&F. sand, brown cement. Trace of monozite & ilminite. |
| 20 | 22 | 9225 | 9.7 | | | | 4.9 | 3.8 | C&F. sand, organic silt. Trace of monozite & pyrite. |
| 22 | 24 | 9226 | 28.6 | | | | 4.9 | 3.8 | C&F. sand, heavy drift, small wash, Trace of tin, monozite & pyrite. |
| 24 | 26 | 9227 | 14.5 | | | | 4.9 | 3.8 | C&F. sand, heavy drift, brown clay, small wash. Monozite & Pyrite. |
| 26 | 28 | 9228 | 23.4 | | | | 4.9 | 3.8 | C&F. sand, heavy drift, small wash, brown clay, Trace of fine tin, monozite & pyrite. |
| 28 | 30 | 9229 | 19.3 | | | | 4.9 | 3.8 | C&F. sand, heavy drift, small wash. Trace of fine tin, monozite, ilminite & 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 36.5 m. Grade from surface to inferred basement at m g SnO₂/m³ *
 Total recovered volume, surface to basement 433 l. at 36.5 m 7.3 g SnO₂/m³ +
 Total recovered tin 4.31 gSnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

On sheet s1 B1

Area: Scotia Hole No.: A.S.8 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 cm Theoretical Volume: 40.3 litres

Date: 14-2-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|----|------------|----------------------|--------------------|-------------------|------------------------------------|---|--|-----------------------|
| From | To | | | | | | | | |
| 0 | 2 | 9235 | 23.4 | 77.05 Sample | 0.21 lost | 0.23 assume | 30.0 7.1 | Black topsoil, c&f sand, small wash, yellow & white clay, brown cement. Tin & ilminite. | |
| 2 | 4 | 9236 | 30.2 | | | | 5.0 5.5 | C&F sand, small wash. Trace of tin, ilminite. | |
| 4 | 6 | 9237 | 29.8 | | | | 5.8 5.5 | C&F sand, heavy drift. Monozite & ilminite. | |
| 6 | 8 | 9238 | 29.0 | | | | 5.8 5.5 | C&F sand, heavy drift, ilminite & monozite. | |
| 8 | 10 | 9239 | 28.2 | | | | 5.8 5.5 | As above. | |
| 10 | 12 | 9240 | 27.4 | | | | 5.8 5.5 | As above. | |
| 12 | 14 | 9241 | 15.7 | | | | 5.8 5.5 | As above. | |
| 14 | 16 | 9242 | 27.4 | | | | 5.8 5.5 | As above. | |
| 16 | 18 | 9243 | 25.4 | 17 grouped samples | | | 5.8 5.5 | As above. | |
| 18 | 20 | 9244 | 19.3 | 154.7 | 1.45 1.37 | 3.10 3.02 | 5.8 5.5 | C&F sand, heavy drift white clay. Monozite. | |
| 20 | 22 | 9245 | 18.1 | | | | 5.8 5.5 | C&F sand, brown clay, trace of ilminite & monozite. | |
| 22 | 24 | 9246 | 19.3 | | | | 5.8 5.5 | C&F sand, Monozite & ilminite. | |
| 24 | 26 | 9247 | 27.4 | | | | 5.8 5.5 | C&F sand, heavy drift. ilminite, monozite & pyrite. | |
| 26 | 28 | 9248 | 28.6 | | | | 5.8 5.5 | C&F sand, heavy drift, small wash, brown clay. Very fine trace of tin & pyrite. | |
| 28 | 30 | 9249 | 27.0 | | | | 5.8 5.5 | C&F sand, heavy drift, small wash, brown silt, pyrite lumps, trace fine tin, pyrite & monozite. | |

* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Radford factored theoretical volume to recovered tin RadF=80%
 Drillers reported basement at about 41 m. Grade from surface to inferred basement at m g SnO₂ / m³ *
 Total recovered volume, surface to basement l. at m g SnO₂ / m³ +
 Total recovered tin gSnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No.: A.S.8 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 cm Theoretical Volume: 40.3 litres

Date: 19-2-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (g SnO ₂) | Grade * (g SnO ₂ /m ³) | Grade + (g SnO ₂ /m ³) | Description of Sample |
|---------|--------|------------|----------------------|-----------------|-------------------|-------------------------------------|---|---|---|
| From | To | | | | | | | | |
| 30 | 32 | 9250 | 18.1 | | | | | 5.8 5.5 | Coarse & fine sand, small wash heavy drift, brown silt. Trace of tin & pyrite. |
| 32 | 34 | 9251 | 21.0 | | | | | 5.8 5.5 | C&F sand, small wash, heavy drift. Trace of fine tin & pyrite. |
| 34 | 36 | 9252 | 31.0 | | | | | 5.8 5.5 | C&F sand, small wash, heavy drift, Trace of tin & pyrite. |
| 36 | 38 | 9253 | 25.0 | 109.1 | 0.26 0.11 | 0.41 0.17 | | 12.6 7.4 | C&F sand, grey clay brown silt. Trace of tin, pyrite. |
| 38 | 40 | 9254 | 21.0 | 123.6* | 1.00 1.42 | 1.77 2.51 | | 54.8 77.7 | C&F sand, medium quartz wash, grey clay. Tin & pyrite. |
| 40 | 41 | 9255 | 12.5 | 166.5* | 7.48 8.55 | 17.49 20.34 | | 1105.7 1261.6 | C&F sand, grey clay, medium quartz wash, Trace of tin & pyrite. |
| 41 | 42 | 9256 | 14.1 | 147.0 | 0.37 0.43 | 0.78 0.90 | | 48.4 56.0 | Fine silt. silty clay, few bits angular quartz. very small trace of tin, pyrite, |
| 42 | 43 | 9257 | 4.0 | 115.9 | 0.18 0.083 | 0.30 0.14 | | 18.4 8.5 | C&F sand, bits of angular quartz. Pyrite. |
| 43 | 44 | 9258 | 9.3 | 117.0 | 0.22 0.062 | 0.37 0.10 | | 22.8 6.4 | Fragments of angular quartz. Pyrite. |
| 44 | 45 | 9259 | 16.5 | 91.7 | 0.13 0.018 | 0.17 0.02 | | 10.6 1.4 | C&F sand, broken angular quartz = pyrite. |
| 45 | 46 | 9260 | 16.5 | 106.7 | 0.14 0.0085 | 0.21 0.01 | | 12.9 0.8 | As above. |
| 46 | 47 | 9261 | 12.9 | 112.8 85.5 | 0.14 0.0025 | 0.23 0.00 | | 14.0 0.2 | C&F sand, broken quartz & slate. -pyrite. |
| 47 | 48 | 9262 | 12.5 | | 0.15 0.0020 | 0.16 | | 10.2 0.2 | As above. |

*split samples last six samples disregarded in grade calculations.

Note: Top figure in columns = Amdex Assay Bottom figure = A.L.S. assay- also A.L.S. results in brackets.

* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Rodford factored theoretical volume to recovered tin Rod F = 80%
 Drillers reported basement at about 41 m. Grade from surface to inferred basement at 41 m 38 (41) g SnO₂ / m³ *
 Total recovered volume, surface to basement 532.5 l. at 41 m 38 (41) g SnO₂ / m³ *
 Total recovered tin 24.91 g SnO₂ (26.94) at 41 m 47 (51) g SnO₂ / m³ *

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

On sheet N2

Area: Scotia Hole No.: A.S.9 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 cm Theoretical Volume 40.3 litres

Date: 26-2-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|--------|------------|----------------------|-----------------|-------------------|------------------------------------|---|---|--|
| From | To | | | | | | | | |
| 0 | 2 | 9263 | 18.5 | 112.2 | 0.25 0.11 | 0.40 0.18 | | 12.4 5.5 | Black topsoil, fine sand white & yellow clay Trace of tin, monozite & blackjack. |
| 2 | 4 | 9264 | 21.0 | 228.0 | 0.20 0.052 | 0.65 0.17 | | 20.2 5.2 | Coarse & fine sand, white & yellow clay. v/f. trace tin, monozite. |
| 4 | 6 | 9265 | 19.3 | 81.4 | 0.36 0.14 | 0.42 0.16 | | 12.9 5.0 | Fine silty sand, heavy drift, white sandy clay. monozite & ilminite. |
| 6 | 8 | 9266 | 13.3 | 183.7 | 0.19 0.037 | 0.49 0.10 | | 15.5 3.0 | C&F sand, heavy drift, small wash, Monozite & ilminite. |
| 8 | 10 | 9267 | 14.5 | 81.0 | 0.86 0.65 | 0.99 0.75 | | 31.8 23.3 | Fine silty sand, heavy drift. Fine tin & ilminite & monozite. |
| 10 | 12 | 9268 | 14.5 | 209.9 | 1.49 1338 | 4.47 4.14 | | 138.6 128.4 | C&F sand, heavy drift, small wash. Fine tin & ilminite & monozite. |
| 12 | 14 | 9269 | 19.3 | 102.5 | 0.78 0.54 | 1.14 0.79 | | 35.4 24.5 | C&F sand, heavy drift small wash, Fine tin, ilminite & monozite. |
| 14 | 16 | 9270 | 20.2 | 248.2 | 0.22 0.082 | 0.78 0.29 | | 24.2 8.0 | C&F sand, heavy drift. Trace of fine tin, ilminite & monozite. |
| 16 | 18 | 9271 | 23.8 | 113.6 | 0.21 0.38 | 0.34 0.38 | | 10.6 18.1 | C&F sand, small trace of fine tin & monozite. very |
| 18 | 20 | 9272 | 26.2 | 174.2 | 0.11 0.15 | 0.27 0.37 | | 8.5 11.6 | C&F sand, small wash, heavy drift, brown clay. Trace of very fine tin, monozite & pyrite. |
| 20 | 22 | 9273 | 24.6 | 76.3 | 0.24 0.14 | 0.26 0.15 | | 8.1 4.7 | C&F sand, heavy drift. Pyrite & monozite. |
| 22 | 24 | 9274 | 23.4 | 185.6 | 0.28 0.14 | 0.74 0.37 | | 23.0 11.5 | C&F sand, small wash, heavy drift. Pyrite, trace of ilminite. |
| 24 | 26 | 9275 | 26.6 | 58.7 | 2.53 2.96 | 2.12 2.48 | | 65.8 76.9 | C&F sand, small & med. wash heavy drift, white clay Fine tin, ilminite & monozite pyrite. |
| 26 | 28 | 9276 | 26.2 | 171.0 | 1.08 1.54 | 2.64 3.76 | | 81.8 116.7 | C&F sand, small & med. wash, heavy drift, pyrite lumps. Fine tin, pyrite & monozite. |
| 28 | 30 | 9277 | 25.0 | 98.3 | 14.05 13.3 | 19.70 18.68 | | 611.1 579.3 | C&F sand, med. wash heavy drift. Tin, pyrite & ilminite. |

* 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 38 m. Grade from surface to inferred basement at 38 m
 Total recovered volume, surface to basement 428.4 l. at 38 m 185.5 (181.8) g SnO₂ / m³ *
 Total recovered tin 113.58 g SnO₂ (111.35) at 38 m 265 (260)

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

No W1

Area: Scotia Hole No.: A.S.10 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 cm Theoretical Volume: 40.3 litres

Date: 7-3-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (g SnO ₂) | Grade * (g SnO ₂ /m ³) | Grade + (g SnO ₂ /m ³) | Description of Sample |
|---------|--------|------------|----------------------|---------------------|-------------------|-------------------------------------|---|---|---|
| From | To | | | | | | | | |
| 0 | 2 | 9283 | 26.6 | | | | | 2.5 3.2 | Black topsoil, c&F sand, small wash, yellow clay, brown cement. Trace of very fine tin Monozite. |
| 2 | 4 | 9284 | 34.6 | | | | | 2.5 3.2 | C&F sand, heavy drift, small wash & white sandy, clay. trace of very fine tin & monozite. |
| 4 | 6 | 9285 | 15.7 | | | | | 2.5 3.2 | C&F sand, heavy drift & white clay. Trace of ilminite & monozite. |
| 6 | 8 | 9286 | 22.2 | | | | | 2.5 3.2 | C&F sand, heavy drift & yellow clay. Ilminite & monozite. |
| 8 | 10 | 9287 | 12.9 | | | | | 2.5 3.2 | C&F sand, heavy drift. Monozite & pyrite. |
| 10 | 12 | 9288 | 16.9 | | | | | 2.5 3.2 | C&F sand, heavy drift. ilminite, pyrite & monozite. |
| 12 | 14 | 9289 | 18.1 | 14 grouped samples. | | | | 2.5 3.2 | C&F sand, heavy drift. pyrite & ilminite. |
| 14 | 16 | 9290 | 16.5 | 196.5 | 0.41 0.52 | 1.14 1.46 | | 2.5 3.2 | C&F sand, heavy drift, brown clay, pyrite. |
| 16 | 18 | 9291 | 15.7 | | | | | 2.5 3.2 | C&F sand, heavy drift, small wash, pyrite. |
| 18 | 20 | 9292 | 33.0 | | | | | 2.5 3.2 | C&F sand, small wash, heavy drift. pyrite & ilminite. |
| 20 | 22 | 9293 | 29.0 | | | | | 2.5 3.2 | As above. |
| 22 | 24 | 9294 | 26.6 | | | | | 2.5 3.2 | C&F sand, heavy drift, small wash pyrite, ilminite. |
| 24 | 26 | 9295 | 45.1 | | | | | 2.5 3.2 | As above with white clay & no ilminite. |
| 26 | 28 | 9296 | 8.5 | | | | | 2.5 3.2 | C&F sand, white clay. Pyrite. |
| 28 | 30 | 9297 | 23.8 | 114.2 | 2.42 2.99 | 2.92 4.75 | | 122 147 | C&F sand, small & med. wash, heavy drift, small amount of tin & 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 40.30 m. Grade from surface to inferred basement at 40.3 m 89 (96) g SnO₂ / m³ *
 Total recovered volume, surface to basement 486 l. at 40.3 m 119 (129) g SnO₂ / m³ +
 Total recovered tin 27.86 g SnO₂ (62.46)

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

N2 (sheet)

Area: Scotia Hole No: A.S.11 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 Theoretical Volume: 40.3 litres

Date: 17-3-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO2) | Grade * gSnO2/m ³ | Grade + gSnO2/m ³ | Description of Sample |
|---------|----|------------|----------------------|--------------------|-------------------|-----------------------|------------------------------|---|-----------------------|
| From | To | | | | | | | | |
| 0 | 2 | 9504 | 24.9 | | | | 3.0 | Black topsoil, C&F sand, grey & yellow clay, brown cement, small wash. Trace Tin, Ilminite & monoz. | |
| 2 | 4 | 9505 | 32.2 | | | | 3.0 | C&F sand, heavy drift, small wash. Trace of fine tin, ilminite & monozite. | |
| 4 | 6 | 9506 | 37.9 | | | | 3.0 | C&F sand, Heavy drift, small wash Ilminite & monozite. | |
| 6 | 8 | 9507 | 26.2 | | | | 3.0 | C&F sand, heavy drift. Ilminite & monozite. | |
| 8 | 10 | 9508 | 18.5 | | | | 3.0 | C&F sand, brown silty clay. Pyrite & ilminite. | |
| 10 | 12 | 9509 | 19.7 | | | | 3.0 | C&F sand, heavy drift, small wash, wood. Pyrite. | |
| 12 | 14 | 9510 | 30.2 | 129.3 | 0.67 | 1.24 | 3.0 | C&F sand, heavy drift, small wash. Pyrite & ilminite. | |
| 14 | 16 | 9511 | 15.3 | 13 grouped samples | | | 3.0 | C&F sand, brown & white clay. Pyrite & monozite. | |
| 16 | 18 | 9512 | 8.5* | | | | 3.0 | C&F sand, white clay, Pyrite & monozite. | |
| 18 | 20 | 9513 | 3.6* | | | | 3.0 | white clay, silt, Trace of monozite. | |
| 20 | 22 | 9514 | 5.2* | | | | 3.0 | Brown clay, c&f sand, silt. Pyrite. | |
| 22 | 24 | 9515 | 18.9 | | | | 3.0 | C&F sand, heavy drift, small wash & white clay. Monozite & pyrite. | |
| 24 | 26 | 9516 | 12.5 | | | | 3.0 | C&F sand, small wash & brown clay. Pyrite. | |
| 26 | 28 | 9517 | 12.9 | 129.6 | 0.21 | 0.39 | 12.0 | C&F sand, small wash, & pyrite lumps. Trace of tin & pyrite. | |
| 28 | 30 | 9518 | 12.5 | 100.4 | 0.50 | 0.72 | 22.2 | C&F sand, small wash, Trace of Tin & 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 31.40 m. Grade from surface to inferred basement at m g SnO2 / m³ *
 Total recovered volume, surface to basement 294.7 g SnO2 / m³ +
 Total recovered tin 5.79 g SnO2 at 31.40 m 20 g SnO2 / m³ *

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

On sheet N2

Area: Scotia Hole No: A.S.12 Collar Co-ordinates: Drilling Method: Percussion

Surface R.L.: m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02 Theoretical Volume: 40.3 litres

Date: 21-3-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | | Sample No. | Recovered Volume (l) | Weight Conc. (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|----|------------|----------------------|-------------------|-------------------|------------------------------------|---|--|-----------------------|
| From | To | | | | | | | | |
| 0 | 2 | 9521 | 24.2 | | | | 8.3 | Black topsoil, c&f sand, yellow clay, small wash. Trace of fine tin, monozite. | |
| 2 | 4 | 9522 | 25.8 | 4 grouped samples | | | 8.3 | C&F sand, grey clay, silt, ilminite & monozite. | |
| 4 | 6 | 9523 | 29.4* | 111.9 | 0.67 | 1.07 | 8.3 | C&F sand, small wash, silt, white clay. Ilminite & monozite. | |
| 6 | 8 | 9524 | 17.3 | | | | 8.3 | C&F sand, small wash, Trace of tin, ilminite & monozite. | |
| 8 | 10 | 9525 | 32.2 | 105.1 | 0.57 | 0.86 | 26.5 | C&F sand, heavy drift, small wash. small amount of tin, ilminite & monozite. | |
| 10 | 12 | 9526 | 29.0 | 163.6 | 0.73 | 1.71 | 52.9 | C&F sand, heavy drift small wash, Trace of tin, ilminite & monozite. | |
| 12 | 14 | 9527 | 28.6 | 101.6 | 5.60 | 8.13 | 252.1 | C&F sand, heavy drift, medium wash, Tin, ilminite, monozite. | |
| 14 | 16 | 9528 | 22.6 | 98.8 | 1.07 | 1.51 | 46.8 | C&F sand, heavy drift, white sandy clay. Small amount of tin & ilminite. | |
| 16 | 18 | 9529 | 27.4 | | | | 22.7 | C&F sand, heavy drift, small wash. Trace of tin, monozite, pyrite. | |
| 18 | 20 | 9530 | 22.8 | | | | 22.7 | C&F sand, white & brown clay. Trace of fine tin, pyrite, monozite. | |
| 20 | 22 | 9531 | 12.9 | 7 grouped samples | | | 22.7 | C&F sand, brown clay. monozite & pyrite. | |
| 22 | 24 | 9532 | 27.0 | 95.5 | 3.75 | 5.12 | 22.7 | C&F sand, small wash, heavy drift monozite & pyrite. | |
| 24 | 26 | 9533 | 29.8 | | | | 22.7 | C&F sand, small wash, heavy drift, Monozite, ilminite & pyrite. | |
| 26 | 28 | 9534 | 29.4 | | | | 22.7 | C&F sand, small wash, heavy drift. Trace of fine tin, ilminite, pyrite. | |
| 28 | 30 | 9535 | 23.4 | | | | 22.7 | C&F sand, small & med. wash, heavy drift. Trace of tin, ilminite, 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 33.80 m. Grade from surface to inferred basement at m
 Total recovered volume, surface to basement 432.5 l. at 33.8 m g SnO₂/m³ *
 Total recovered tin 28.92 gSnO₂ at 33.8 m g SnO₂/m³ +

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No: A-s-13 Collar Co-ordinates: On sheet N2 W1 Drilling Method: Percussion
 Surface R.L.: 52.36 m Basement R.L.: 13.96 m Cutting Shoe / Bit diameter: 6.02 cm Theoretical Volume: 40.3 litres
 Date: 1-4-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (% Sn) | Recovered Tin (g SnO ₂) | Grade ° g SnO ₂ /m ³ | Grade ° g SnO ₂ /m ³ | Description of Sample |
|---------|--------|------------|----------------------|---------------------|--------------------|-------------------------------------|--|---|-----------------------|
| 0 | 2 | 9539 | 27 Ltrs. | | | | 8.8 | Black topsoil, coarse & fine sand, yellow & white clay, brown cement, small wash. Trace of fine tin & monozite. | |
| 2 | 4 | 9540 | 18 " | | | | 8.8 | C&F sand, white & yellow clay. Ilminite & monozite. | |
| 4 | 6 | 9541 | 15 " | | | | 8.8 | C&F sand, heavy drift, small wash, white clay. Ilminite & monozite. | |
| 6 | 8 | 9542 | 28 " | | | | 8.8 | C&F sand, heavy drift, small wash. Trace of fine tin, ilminite & monozite. | |
| 8 | 10 | 9543 | 21 " | | | | 8.8 | C&F sand, heavy drift. Monozite & ilminite. | |
| 10 | 12 | 9544 | 16 " | 13 grouped samples. | | | 8.8 | C&F sand, heavy drift. Ilminite & monozite. | |
| 12 | 14 | 9545 | 18 " | 96.0 | 2.70 | 3.70 | 8.8 | C&F sand, heavy drift, yellow & white clay. Ilminite & monozite. | |
| 14 | 16 | 9546 | 21 " | | | | 8.8 | C&F sand, heavy drift. Monozite & pyrite. | |
| 16 | 18 | 9547 | 35 " | | | | 8.8 | C&F sand, heavy drift, small wash. Trace of fine tin & monozite & pyrite. | |
| 18 | 20 | 9548 | 26 " | | | | 8.8 | C&F sand, heavy drift, small wash. Brown silty clay. Monozite & pyrite. | |
| 20 | 22 | 9549 | 27 " | | | | 8.8 | C&F sand, heavy drift, small wash, brown silty clay. Monozite & pyrite. | |
| 22 | 24 | 9550 | 25 1/2 " | | | | 8.8 | C&F sand, small wash, heavy drift. Monozite & pyrite. | |
| 24 | 26 | 9551 | 23 " | | | | 8.8 | C&F sand, small wash, heavy drift. Very fine trace of tin, monozite & pyrite. | |
| 26 | 28 | 9552 | 32 " | 98.0 | 4.76 | 2.46 | 76.4 | C&F sand, small & med. wash, heavy drift. Small amount of tin & pyrite. | |
| 28 | 30 | 9553 | 25 " | 96.8 | 4.88 | 6.75 | 209.3 | C&F sand, small & med. wash, heavy drift. Small amount of tin, pyrite & ilminite. | |

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 33.40 m. Grade from surface to inferred basement at 33.4 m 48 g SnO₂/m³
 Total recovered volume surface to basement 393.7 l. at 33.4 m 65 g SnO₂/m³
 Total recovered tin 25.75 g SnO₂ at 33.4 m 65 g SnO₂/m³

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AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No: A-S-14 Collar Co-ordinates: On sheet N2 W1 Drilling Method: Percussion

Surface R.L.: 52.72 m Basement R.L.: 13.92 m Cutting Shoe / Bit diameter: 36.02 cm Theoretical Volume: 40.3 litres

Date: 16-4-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: B. Shean/S. Moore Geologist: R. Munro

| Section | | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (g SnO ₂) | Grade ° g SnO ₂ /m ³ | Grade ° g SnO ₂ /m ³ | Description of Sample |
|---------|----|------------|----------------------|--------------------|-------------------|-------------------------------------|--|--|--|
| From | To | | | | | | | | |
| 0 | 2 | 9557 | 37 | 78.6 | 1.02 | 1.15 | 30.9 | 35.5 | Top soil, C&F sand, brown clay, small wash, Trace of very fine tin & ilminite. |
| 2 | 4 | 9558 | 18 | 3 grouped samples. | | | 25.4 | 20.8 | C&F sand, heavy drift, small wash, Ilminite & monozite. |
| 4 | 6 | 9559 | 27 | 145.1 | 0.97 | 2.01 | 25.4 | 20.8 | C&F sand, heavy drift & small wash. Monozite & ilminite. |
| 6 | 8 | 9560 | 34 | | | | 25.4 | 20.8 | C&F sand, heavy drift, small wash, Trace of fine tin, ilminite & monozite. |
| 8 | 10 | 9561 | 25 | 74.0 | 2.73 | 2.89 | 115.4 | 89.5 | C&F sand, small & med. wash, heavy drift. tin, ilminite, monozite. |
| 10 | 12 | 9562 | 29 | 23.6 | 1.20 | 1.26 | 43.5 | 39.1 | C&F sand, heavy drift. small amount of tin, ilminite & monozite. |
| 12 | 14 | 9563 | 32½ | | | | 15.1 | 12.4 | C&F sand, heavy drift, small wash. Trace of tin & ilminite, Pyrite. |
| 14 | 16 | 9564 | 27 | | | | 15.1 | 12.4 | C&F sand, heavy drift, small wash, ilminite & pyrite. |
| 16 | 18 | 9565 | 29 | 7 grouped samples. | | | 15.1 | 12.4 | C&F sand, small wash, heavy drift. Trace of tin, ilminite & pyrite. |
| 18 | 20 | 9566 | 21 | 133.2 | 1.47 | 2.79 | 15.1 | 12.4 | C&F sand, heavy drift, small wash, brown clay. Trace of fine tin, ilminite & pyrite. |
| 20 | 22 | 9567 | 24 | | | | 15.1 | 12.4 | C&F sand, small wash, heavy drift, wood Trace of fine tin, ilminite & pyrite. |
| 22 | 24 | 9568 | 30½ | | | | 15.1 | 12.4 | C&F sand, small wash, heavy drift, brown clay, pyrite lumps. Trace of fine tin & pyrite. |
| 24 | 26 | 9569 | 20½ | | | | 15.1 | 12.4 | C&F sand, small wash, pyrite lumps. Trace of fine tin & pyrite. |
| 26 | 28 | 9570 | 23 | 121.6 | 2.12 | 3.68 | 160.0 | 114.2 | C&F sand, small wash, & med. wash heavy drift Tin, ilminite & pyrite. |
| 28 | 30 | 9571 | 23½ | 111.2 | 2.33 | 3.70 | 157.5 | 114.8 | C&F sand small & med. wash, heavy drift. Tin, pyrite & ilminite. |

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 38.80 m Grade from surface to inferred basement at 38.80 m g SnO₂/m³ °
 Total recovered volume, surface to basement 530 at 38.80 m 250 g SnO₂/m³ °
 Total recovered tin 146.18 g SnO₂ at 38.80 m 276 g SnO₂/m³ °

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AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: Scotia Hole No: A-5-15 Collar Co-ordinates: On sheet N241 Drilling Method: Percussion

Surface R.L.: 53.24 m Basement R.L.: 18.84 m Cutting Shoe / Bit diameter: 16.02 cm Theoretical Volume: 40.3 litres

Date: 21-4-80 Driller: M. Kerrison Assistant: J. Groves Sample Washer: S. Moore Geologist: R. Munro

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (g SnO ₂) | Grade * (g SnO ₂ /m ³) | Grade + (g SnO ₂ /m ³) | Description of Sample |
|---------|--------|------------|----------------------|--------------------|-------------------|-------------------------------------|---|---|--|
| From | To | | | | | | | | |
| 0 | 2 | 9578 | 27 Ltrs. | | | | 6.8 | 5.2 | Black topsoil, C&F sand, yellow clay. small wash. Very fine trace of tin & monozite. |
| 2 | 4 | 9579 | 28 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, white clay. Trace of monozite & ilminite. |
| 4 | 6 | 9580 | 28½ " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash, white clay. Ilminite & monozite. |
| 6 | 8 | 9581 | 16 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, Ilminite & monozite. |
| 8 | 10 | 9582 | 14 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, Ilminite & monozite. |
| 10 | 12 | 9583 | 23 " | | | | 6.8 | 5.2 | C&F sand, heavy drift. Ilminite & monozite. |
| 12 | 14 | 9584 | 26 " | 14 grouped samples | | | 6.8 | 5.2 | C&F sand, heavy drift, pyrite lumps. Pyrite. |
| 14 | 16 | 9585 | 29½ " | 164.5 | 0.99 | 2.33 | 6.8 | 5.2 | C&F sand, Pyrite. |
| 16 | 18 | 9586 | 22½ " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash, Pyrite. |
| 18 | 20 | 9587 | 23 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash, brown clay Pyrite. |
| 20 | 22 | 9588 | 25½ " | | | | 6.8 | 5.2 | C&F sand, heavy drift. Pyrite. |
| 22 | 24 | 9589 | 21 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash, brown silt. Pyrite. |
| 24 | 26 | 9590 | 25½ " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash, pyrite lumps. Pyrite. |
| 26 | 28 | 9591 | 35 " | | | | 6.8 | 5.2 | C&F sand, heavy drift, small wash. Pyrite. |
| 28 | 30 | 9592 | 21 " | 119.3 | 2.02 | 3.44 | 163.9 | 106.8 | C&F sand, heavy drift, small wash, small amount of tin & pyrite. |

Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Revised theoretical volume to recovered tin $R_{adj} F = 20$
 Drillers reported basement at 421.7 m Grade from surface to inferred basement at 34.4 m 25 g SnO₂/m³
 Total recovered volume surface to basement 15.89 m³ at 34.4 m 33 g SnO₂/m³
 Total recovered tin 15.89 g SnO₂ at 34.4 m 33

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: **Scotia** Hole No: **A-S-16** Collar Co-ordinates: **On sheet N2W1** Drilling Method: **Percussion**

Surface R.L. **52.60** m Basement R.L. **21.20** m Cutting Shoe / Bit diameter: **16.02 cm** Theoretical Volume: **40.3** litres

Date: **30-4-80** Driller: **M. Kerrison** Assistant: **J. Groves** Sample Washer: **S. Moore** Geologist: **R. Munro**

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade † gSnO ₂ /m ³ | Description of Sample |
|---------|--------|------------|----------------------|--------------------|------------------|------------------------------------|---|---|--|
| From 0 | To 2 | 9596 | 26 Ltrs. | | | | 9.7 | 7.5 | C&F sand, yellow & white clay, small wash, brown cement. Trace of tin, ilminite & monozit. |
| 2 | 4 | 9597 | 28 " | | | | 9.7 | 7.5 | white & yellow clay, C&F sand, Ilminite & monozite. |
| 4 | 6 | 9598 | 38 " | | | | 9.7 | 7.5 | C&F sand, small wash, heavy drift, white clay. Ilminite & monozite. |
| 6 | 8 | 9599 | 28 " | | | | 9.7 | 7.5 | C&F sand, heavy drift, small wash, Ilminite & monozite. |
| 8 | 10 | 9600 | 21 " | | | | 9.7 | 7.5 | C&F sand, heavy drift small wash, brown clay. Ilminite & monozite. |
| 10 | 12 | 8901 | 11 " | 12 grouped samples | | | 9.7 | 7.5 | C&F sand, heavy drift. trace of tin & pyrite. |
| 12 | 14 | 8902 | 21 " | 129.3 | 1.58 | 2.91 | 9.7 | 7.5 | C&F sand, heavy drift. Very fine trace of tin & pyrite. |
| 14 | 16 | 8903 | 26 " | | | | 9.7 | 7.5 | C&F sand, heavy drift, small wash, pyrite lumps. Pyrite. |
| 16 | 18 | 8904 | 18 " | | | | 9.7 | 7.5 | C&F sand, heavy drift, small wash, Pyrite. |
| 18 | 20 | 8905 | 30 " | | | | 9.7 | 7.5 | C&F sand, heavy drift, small wash, Pyrite. |
| 20 | 22 | 8906 | 26 " | | | | 9.7 | 7.5 | As above. |
| 22 | 24 | 8907 | 26 " | | | | 9.7 | 7.5 | C&F sand, heavy drift, small wash, Very fine trace of tin & Pyrite. |
| 24 | 26 | 8908 | 28 " | 95.6 | 3.15 | 4.30 | 153.6 | 133.4 | C&F sand, small wash, heavy drift. Small amount of tin & pyrite. |
| 26 | 28 | 8909 | 28 " | 69.8 | 2.23 | 2.22 | 78.0 | 68.9 | C&F sand, small wash, heavy drift. small amount of tin, & pyrite. |
| 28 | 30 | 8910 | 23 " | 86.2 | 1.83 | 2.25 | 98.0 | 69.9 | C&F sand, small & med. wash. heavy drift. Trace of tin & pyrite. |

* Grade calculated by relating recovered volume to recovered tin † Grade calculated by relating Radford factored theoretical volume to recovered tin Rad F = 2.2
 Drillers reported basement at **31.40** m **394.7** g SnO₂/m³ Grade from surface to inferred basement at **31.4** m **27** g SnO₂/m³ *
 Total recovered volume surface to basement **132.59** m³ at **31.4** m **34** g SnO₂/m³ +
 Total recovered tin **gSnO₂**

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: **Scotia** Hole No: **A-8-17** Collar Co-ordinates: **On sheet N2W1** Drilling Method: **Percussion**

Surface R.L.: **51.54** m Basement R.L.: **17.04** m Cutting Shoe / Bit diameter: **16.02 cm** Theoretical Volume: **40.3** litres

Date: **6-5-80** Driller: **H. Kerrison** Assistant: **J. Groves** Sample Washer: **S. Moore** Geologist: **R. Munro**

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (gSnO ₂) | Grade * gSnO ₂ /m ³ | Grade + gSnO ₂ /m ³ | Description of Sample |
|---------|--------|------------|----------------------|---------------------|-------------------|------------------------------------|---|---|---|
| rom | To | | | | | | | | |
| 0 | 2 | 8913 | 23 Ltrs. | | | | 8.5 | 6.4 | Black topsoil, c&f sand, yellow & white clay, brown cement, wash. Trace of fine tin, ilminite & Monozite. |
| 2 | 4 | 8914 | 24 " | | | | 8.5 | 6.4 | C&F sand, small & med. wash, heavy drift, small amount of fine tin, ilminite & monozite. |
| 4 | 6 | 8915 | 27½ " | | | | 8.5 | 6.4 | C&F sand, heavy drift, small & med. wash, white sandy clay, ilminite & monozite. |
| 6 | 8 | 8916 | 7 " | | | | 8.5 | 6.4 | C&F sand, white sandy clay, ilminite & monozite. |
| 8 | 10 | 8917 | 25½ " | | | | 8.5 | 6.4 | C&F sand, heavy drift, brown silt, ilminite & monozite. |
| 10 | 12 | 8918 | 26 " | | | | 8.5 | 6.4 | C&F sand, heavy drift, brown clay, Pyrite & monozite. |
| 12 | 14 | 8919 | 28 " | 13 grouped samples. | | | 8.5 | 6.4 | C&F sand, heavy drift, wood Pyrite. |
| 14 | 16 | 8920 | 26 " | 94.5 | 2.00 | 2.70 | 8.5 | 6.4 | C&F sand, heavy drift, small wash, Pyrite. |
| 16 | 18 | 8921 | 24½ " | | | | 8.5 | 6.4 | C&F sand, heavy rift, small wash, Trace of fine tin, ilminite & pyrite. |
| 18 | 20 | 8922 | 31 " | | | | 8.5 | 6.4 | C&F sand, heavy drift, small wash, Trace of fine tin, Pyrite. |
| 20 | 22 | 8923 | 30 " | | | | 8.5 | 6.4 | C&F sand, heavy drift, Pyrite. |
| 22 | 24 | 8924 | 29 " | | | | 8.5 | 6.4 | C&F sand, heavy drift, small wash, brown silt, Pyrite. |
| 24 | 26 | 8925 | 16 " | | | | 8.5 | 6.4 | C&F sand, Pyrite. |
| 26 | 28 | 8926 | 28 " | 109.8 | 0.92 | 1.70 | 60.1 | 52.9 | C&F sand, small & med. wash, small amount tin & pyrite. |
| 28 | 30 | 8927 | 24½ " | 117.7 | 1.26 | 2.12 | 86.5 | 65.7 | C&F sand, small & med. wash, brown silty clay, Small amount of tin & pyrite. |

* Grade calculated by relating **34.05** recovered volume to recovered tin + Grade calculated by relating Rodford factored theoretical volume to recovered tin Rod F = 20%

Drillers reported basement at **431.5** m Grade from surface to inferred basement at **34.5** m **17** g SnO₂ / m³ *

Total recovered vol. surface to basement **9.53** at **34.5** m **22** g SnO₂ / m³ *

Total recovered tin **gSnO₂**

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

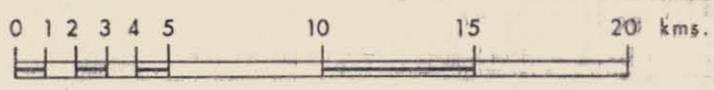
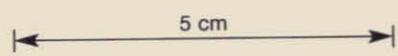
Area **Scotia** Hole No: **A-5-18** Collar Co-ordinates: **On sheet** **N2W1** Drilling Method: **Percussion**

Surface R.L.: **51.10** m Basement R.L.: **22.10** m Cutting Shoe / Bit diameter: **16.02 cm** Theoretical Volume: **40.3** litres

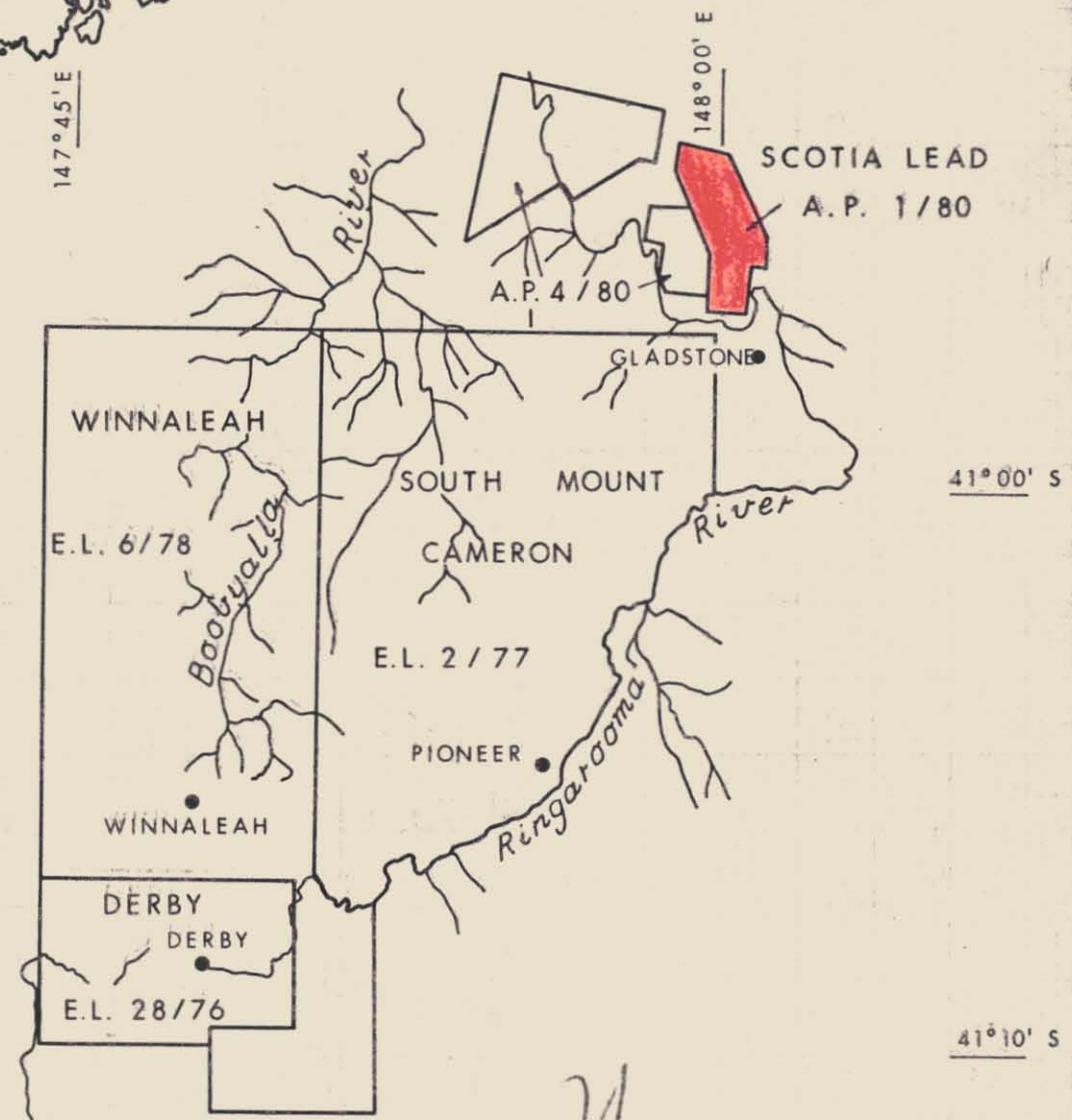
Date: **13-5-80** Driller: **M. Kerrison** Assistant: **J. Groves** Sample Washer: **S. Moore** Geologist: **R. Munro**

| Section | Metres | Sample No. | Recovered Volume (l) | Weight Conc (g) | Conc. Assay (%Sn) | Recovered Tin (g SnO ₂) | Grade * (g SnO ₂ /m ³) | Grade + (g SnO ₂ /m ³) | Description of Sample |
|---------|--------|------------|----------------------|---------------------|-------------------|-------------------------------------|---|---|---|
| m | To | | | | | | | | |
| 0 | 2 | 8932 | 20 Ltrs.* | | | | 9.4 | 7.1 | Black topsoil, C&F sand, brown cement, white clay small wash. Very fine trace of tin, monozite. |
| 2 | 4 | 8933 | 17½ " | | | | 9.4 | 7.1 | C&F sand, white & yellow clay, small wash. very fine trace of tin, ilminite & monozite. |
| 4 | 6 | 8934 | 28 " | | | | 9.4 | 7.1 | C&F sand, small & med. wash. Ilminite & Monozite. |
| 6 | 8 | 8935 | 27 " | | | | 9.4 | 7.1 | C&F sand, small & med. wash. Small amount of tin, ilminite & monozite. |
| 8 | 10 | 8936 | 27½ " | | | | 9.4 | 7.1 | C&F sand, heavy drift, brown clay, very fine trace of tin, monozite & pyrite. |
| 10 | 12 | 8937 | 15 " | 12 grouped samples. | | | 9.4 | 7.1 | C&F sand, heavy drift, wood. Pyrite, monozite. |
| 12 | 14 | 8938 | 17½ " | 97.9 | 1.96 | 2.74 | 9.4 | 7.1 | C&F sand, heavy drift, small wash. Trace of fine tin, monozite & pyrite. |
| 14 | 16 | 8939 | 35 " | | | | 9.4 | 7.1 | C&F sand, heavy drift, small wash. Trace of fine tin & pyrite. |
| 16 | 18 | 8940 | 26 " | | | | 9.4 | 7.1 | C&F sand, heavy drift, small wash. Pyrite. |
| 18 | 20 | 8941 | 27½ " | | | | 9.4 | 7.1 | As above. |
| 20 | 22 | 8942 | 23 " | | | | 9.4 | 7.1 | C&F sand, heavy drift, Pyrite, trace of monozite. |
| 22 | 24 | 8943 | 28½ " | | | | 9.4 | 7.1 | C&F sand, small wash, heavy drift. Trace of tin & pyrite. |
| 24 | 26 | 8944 | 34 " | 113.9 | 0.62 | 1.01 | 29.7 | 31.3 | C&F sand, small & med. wash, heavy drift. Trace of tin & pyrite. |
| 26 | 28 | 8945 | 36 " | 101.7 | 2.00 | 2.91 | 80.7 | 90.1 | C&F sand, small & med. wash, heavy drift. small amount of tin & pyrite. |
| 28 | 30 | 8946 | 23 " | 122.9 | 1.24 | 2.18 | 94.7 | 67.5 | C&F sand, white clay, small wash, soft slate. very fine trace of tin - Pyrite. |

Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Recovered theoretical volume to recovered tin $R_{30} F = 80\%$
 Drillers reported basement at **29** m. Grade from surface to inferred basement at m $\frac{g SnO_2}{m^3}$ *
 Total recovered volume surface to basement **374** l. at **29** m **19** $\frac{g SnO_2}{m^3}$ *
 Total recovered tin **8.99** g SnO₂ at **29** m **24** $\frac{g SnO_2}{m^3}$ *



Scale 1 : 250 000

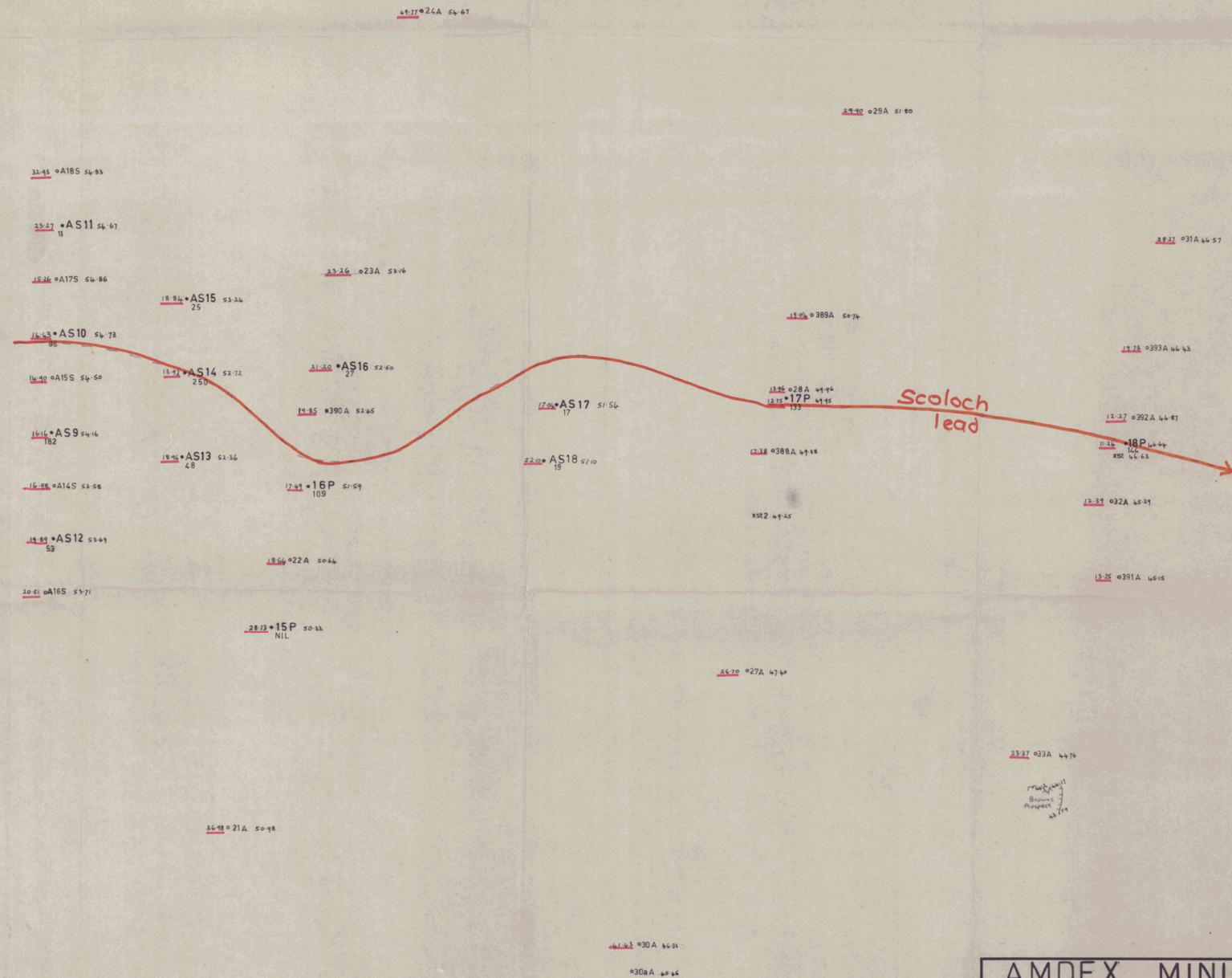


Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

80-1472

| | | | |
|-----------|-------------|------------|-----------|
| Author: | Date: | Dwg. No.: | Figure 1. |
| Drafting: | Report No.: | Base Plan: | |



AMDEX MINING LIMITED - SCOTIA LEAD.

LEGEND

| | |
|-----|------------------------|
| AS9 | Amdex Percussion hole |
| 15P | B.M.I. Percussion hole |
| 21A | B.M.I. Auger hole. |

XST - Survey Peg
44.2 - Spot Height (m)

DRILLING SECTION OF SCOTIA LEAD - PARTS OF SHEETS N2W1 and N2 - NORTH EAST TASMANIA.

| | |
|------------------|-----------------|
| SCALE 1:1,000. | DATA R. MUNRO. |
| DATE APRIL 1980. | DRAWN R. MUNRO. |

054048

Figure 4

SC-14-72