



AMDEX MINING LIMITED

PIONEER, TASMANIA. 7254

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TECHNICAL REPORT

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E.L. 2/77, SOUTH MOUNT CAMERON

REPORT FOR THE SIX MONTHS

ENDING 7TH SEPTEMBER 1981

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1.

INTRODUCTION

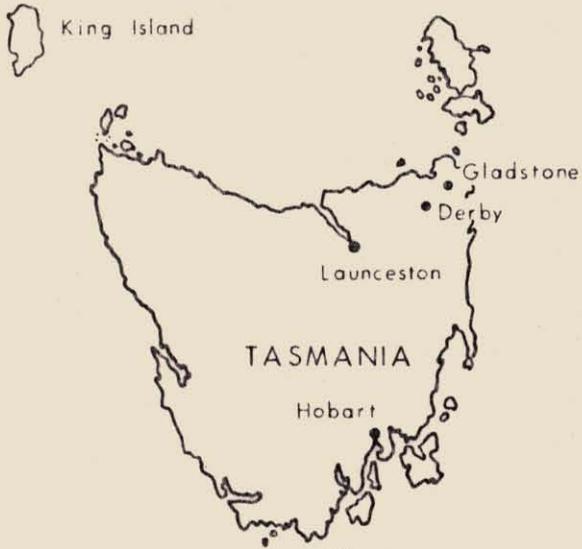
This report documents exploration conducted within E.L. 2/77 between the 8th March 1981 and the 7th September 1981. Within the gazetted area of 187 square kilometres, numerous mineral leases are held. Much of the exploration activity has crossed boundaries of leases held by this company.

Two percussion rigs were active on the licence for the period up to the June quarterly report. From that date, excessive seasonal rain and manpower shortage contributed to the standown of one unit.

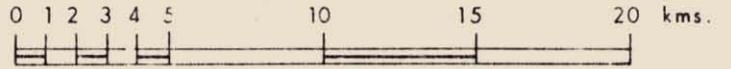
Following a successful drilling programme adjoining the Amdex "Clifton 1980" Mine, other sediment accumulation with a Mount Cameron source have been investigated. Results to date have been less encouraging though similar sediment sequences have been identified.

Drilling of the verges of the Pioneer deposit recommenced early in the period and is still proceeding.

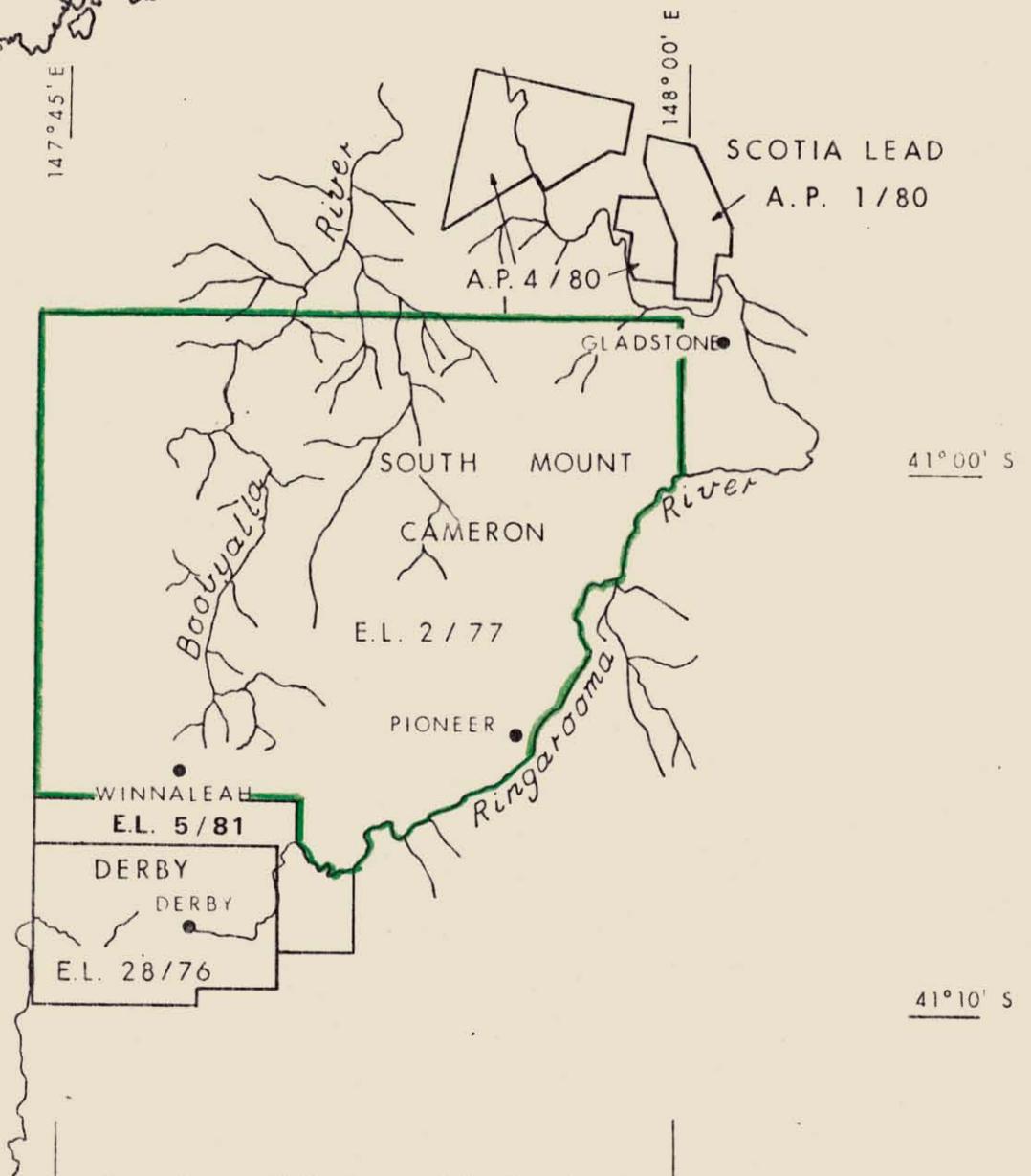
In addition to drilling, map work on a Monarch area compilation was completed to a draft stage (wholly within a mineral lease - not documented in this report), areas were geologically mapped and prospecting for lode cassiterite occurrences was undertaken.



5 cm



Scale 1 : 250 000



Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

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

Fig 1

CURRENT ACTIVITIES

PIONEER

For most of the reporting period, a company percussion rig has been employed north west and south west of the present Pioneer open cut mine. Seven holes totalling 340 metres have been completed. The drilling rate has been slower than on previous occasions. Summary figures of this drilling appear on Table 1 and collar locations are shown on Figure 4 highlighted in pink.

Two aspects of the placer geology of Pioneer have been investigated by this recent, ongoing drilling.

a) Three percussion holes to the north west of the Pioneer deposit have enabled the basin boundary to be further defined in the northern and north western sectors.

Basal sediments recovered by the two deepest holes (K136, K137) consisted of near barren Mathinna Group cobbles. These appear less rounded than those in the tin bearing sequence of the Pioneer Mine and without the well rounded high sphericity pebbles of vein quartz (birds eye wash) commonly associated with higher tin grades. Minor basal cassiterite enrichment was only detected from the hole (K136) closest to the proven reserves. K138 demonstrated that the basement on the northern margin of the Pioneer gutter rises steeply from an undulating floor just as it does in the south east sector.

b) Infill drilling of the 100m grid south of the proven deposit commences with K139. Drill holes are being sited using a centre-fill method which reduces the drill hole area of influence from 10,000 square metres to 500 square metres.

The first infill line is almost complete. It is positioned along an elongated portion of the deep lead which was previously regarded as sub-economic. Further drilling has confirmed this belief. Geological reasons for this bar of low grades bisecting higher grade portions of the basin have not yet been explained. Basal sediment type is similar in character to present pit exposure. However, it is probable that both thickness and clast density of Mathinna cobble units are reduced.

BONSER CREEK

Nine percussion holes were bored in a single line across two button grass flats and an intervening low gravel ridge. This widest part of the Bonser Creek drainage network was chosen as a target for a Clifton-type buried gutter. The potential for a placer deposit was suggested by air photo interpretation and field work.

Details of the drilling are tabulated on Table 2. Figure 2 is a drill hole location map whilst Figure 3 represents an east west cross section incorporating several older drill holes.

The area drilled consists of a thin veneer of Quaternary alluvial silt and peat generally overlying Tertiary sediments. These are predominately fine quartz gravels, sands, organic grey silts and pebble-cobble horizons of clasts with a Mathinna bed provenance. The sediments lie on a decomposed granitic basement.

Several shallow old exploration pits and workings are located where Quaternary cover is absent. Panned samples of these prospects revealed only minor amounts of heavy minerals.

Results from the drilling suggest sediments derived from two sources were encountered. Alluvials from a comparatively distant south westerly source appear to account for most of the sequence of the six western holes on Figure 3. The heavy mineral concentration process is generally only measurable at the commencement of sedimentation. A later more economically significant deposition cycle is evident from the holes in closer proximity to Mount Cameron. It is suggested that the partly perched placer identified in holes B.C.3 to B.C.7 originates from erosion of the Mount Cameron monolith. More holes on lines adjacent to B.C.5 have been recommended to further test this part of the valley.

HASTIES - CLARENCE AREA

A mapping project to test the distribution of granite outcrop in Walpole Creek - Little Boobyalla River has almost been completed.

This area is relevant to any outlet for the Tertiary Ringarooma Basin drainage system and any post-depositional basement uplift. To date the granites in the Hasties area have been mapped and the outcrop distribution corresponds well to the Mines Department mapping, which infers a closed Ringarooma Basin. Some granite areas with the suffix "o" on the published sheet to the north of the Hasties mine are thought to have sufficient Tertiary cover to justify their reclassification. In an attempt to resolve this difference all drilling has been included in the 1:10000 Amdex map of the area (not completed for this report).

Basal sediments in the Hasties Mine host a heavy mineral assemblage clearly different from those in either the Endurance or Pioneer Leads. In addition, the fabric and composition of these sediments does not resemble the known deep lead sediments, which in the event of tectonic uplift in the Hasties area, would have been elevated relative to their site of deposition.

A thick sequence of organic material from Hasties Mine has been sampled for palaeobotanical study at the University of Tasmania. The material is chiefly, numerous woody stem and trunk fragments unbedded in organic silts and fine sands. The preserved leaf population was inferior to other north east Tasmanian collection sites such as the Pioneer pit, however several impressions were observed in the field.

The granite outcrop mapping has confirmed the lack of an outlet to any proto-Ringarooma River, assuming no post-depositional uplift. Several areas worthy of drilling with an aim of discovering small deposits have been delineated.

MOUNT CAMERON

The potential for hard rock mineralization has been reviewed in the field and in the literature. A series of sampling traverses across the mountain was undertaken. These are perpendicular to the main north west-south east trend of known mineralized veins. A minor occurrence of primary mineralization has been found in regolith on the western side of the mountain.

EASTERN LEADS

Prospecting on the eastern side of the source area failed to locate deep lead type sediments. The Packett-Crosswell mine consisted wholly of Ringarooma River terrace type alluvials. Water-worn Mathinna Group pebbles (six in all) were found at different localities in granite/adamellite country near the upper reaches of Swains Creek at elevations up to 140 metres R.L. These could be lag remnants of granite unroofing. The contact metamorphic Mathinna beds located at 583700mE, 5455000mN could not be found.

WESTERN ENDURANCE

Partly as a result of seasonal rain the Amdex percussion rig was relocated from Bonsers Creek to the northern flank of the Endurance Lead in early June 1981. Seven holes were drilled before further wet weather and insufficient labour forced postponement of the project. The drill holes are located on both mineral lease and exploration licence, their relative positions to other drilling is shown on Figure 4.

The first two holes were sited to extend the major drill line 7.5E. E.P.48 was positioned along an unmarked hole calculated to be A353 - B.M.I. Mining auger hole 1971. As expected from Mono Pumps auger drilling on the Endurance Lead, depth was overestimated.

6.

The latter five holes were drilled close to the Pioneer-Clifton power line. All were sited to intersect shallow placers from the Mount Cameron source. Results to date are disappointing (see Table 3). There is scope for a continuation of drilling as larger gullies to the west remain untested.

FUTURE ACTIVITY

An increased level of exploration activity will be forthcoming during the next period following the ratification of a joint exploration venture with Australian Anglo American Limited.

An intensive drilling programme utilizing a mainland reverse circulation rig is scheduled for October and November. This programme is based on the recommendation of a report titled "A Preliminary Review of the Alluvial Tin Potential of the Ringarooma Valley including an Assessment of the Mineral Tenements held by Amdex Mining Limited by J Newton-Smith 27th February 1981", and further detailed in correspondence dated 10th July 1981.

The first target described in the letter as worthy of investigation lies within E.L. 2/77. It is a previously untested "window" in the Winnaleah basalt plateau, formed by the down cutting of Davids Creek to its present stream profile. A minimum of eighteen deep holes as a single line over three kilometres is scheduled for this target.

AMDEX MINING LIMITED - NORTH EAST TASMANIA - DRILLING SUMMARY

AREA: ENDURANCE (north flank) YEAR: 1981

DRILLING METHOD: 6" PERCUSSION

TABLE 3

Hole No.	Collar Coordinates mN mE	Surface R.L.	Basement R.L.	Depth Drilled (m)	Depth to Basement	Area of influence (m ²)	Volume (m ³)	Total rec. volume to basement ^(*)	Total rec. SnO ₂ (g)	Grade * (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	Grade + (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	Tenement	Date
E.P. 48	5459376 mN														
	577987mE	72.24	49.9	26	22.3			344.8	8.56			22		58M/73	6/81
E.P. 49	5459402mN														
	577989mE	72.51	60.1	15	12.4			138.2	1.28			6		58M/73	6/81
E.P. 50	5459410mN														
	577930mE	73.65	61.4	15	12.3			177.7	5.4			27		58M/73	6/81
E.P. 51	5459398mN														
	577881mE	71.88	67.9	12	4			45	2.32			36		58M/73	6/81
E.P. 52	5459384mN														
	577861mE	72.94	67.4	9	5.5			81.8	2.46			28		E.L. 2/77	7/81
E.P. 53	5459371mN														
	577816mE	72.42	68.4	7	4			46	5.08			79		E.L. 2/77	7/81
E.P. 54	5459347mN														
	577750mE			8	5			62.5	0.97			12		E.L. 2/77	7/81
TOTALS															

*Grade calculated by relating recorded volume to recovered tin

+Grade calculated by relating Radford factored volume to recovered tin (Rad. Fac. = 80%)

Author: R. Munro.

Date: September 1981

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: STH.MT. CAMERON - BONSER CREEK Hole No. B.C.6 Collar Co-ordinates: mN mE Drilling Method: Percussion

Surface R.L.: 50.6 m Basement R.L.: 32.4 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres.

Date: 14/9/81 Driller: G. Selby Assistant: B. Blake 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	5485	23LTRS	93.7	0.08	0.11	4.6	3.3	Black mud, c & f sand, heavy drift, yellow clay. Ilmenite, pyrite.
2	4	5486	22 "	129.4	0.06	0.11	5.0	3.4	Black mud, c & f sand, heavy drift. Ilmenite, pyrite.
4	6	5487	25 "	120.0	0.76	1.30	52.1	40.4	c & f sand, med. & lge. wash, grey silty clay. Tr. of tin, pyrite.
6	8	5488	25½"	102.9	0.14	0.21	8.1	6.4	c & f sand, grey silt. Tr. of tin, pyrite.
8	10	5489	27 "	138.0	0.08	0.16	5.8	4.9	c & f sand, organic silt. Pyrite.
10	12	5490	35 "	100.8	0.08	0.12	3.3	3.6	c & f sand, organic silt, sm. wash, wood, pyrite lumps. Pyrite.
12	14	5491	23 "	194.8	B.L.D. 0.02	0	0	0	c & f sand, organic silt, wood, pyrite lumps. Pyrite.
14	16	5492	20 "	169.4	B.L.D. 0.01	0	0	0	c & f sand, organic silt, wood, pyrite lumps. Pyrite.
16	18	5493	21½"	161.9	B.L.D. 0.01	0	0	0	Organic silt, wood. Pyrite.
18	19	5494	14 "	198.5	B.L.D. 0.01	0	0	0	c & f sand, decomposed granite (1 piece of wash). Pyrite.
19	20	5495	13 "	681.4	B.L.D.	0	0	0	Decomposed granite. Lge. amount pyrite.
20	21	5496	11 "	811.7	B.L.D.	0	0	0	Decomposed granite. Lge. amount pyrite.
									648018

* 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 18.30 m. Grade from surface to inferred basement at m g SnO₂ / m³ *
 Total recovered volume, surface to basement l. at 18.3 m g SnO₂ / m³ †

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: STH.MT.CAMERON- Hole No.: B.C.7 Collar Co-ordinates: mN mE Drilling Method: Percussion
BONSER CREEK

Surface R.L.: 50.7 m Basement R.L.: 29.2 m Cutting Shoe / Bit diameter: 16.02 Theoretical Volume: 40.3 litres.

Date: 17/9/81 Driller: G. Selby Assistant: B. Blake 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		5701	28½LTRS	103.4	0.14	0.21	7.2	6.4	Black mud, c & f sand, heavy drift. Ilmenite, pyrite.
2	4		5702	24 "	155.6	0.19	0.42	17.6	13.1	C & f sand, sm. & med. wash, grey clay. Tr. of tin, ilmenite, pyrite.
4	6		5703	25 "	103.6	2.22	3.29	131.4	101.9	C & f sand, med. wash, white & brown clay. Sm. amount tin, ilmenite, pyrite.
6	8		5704	26 "	91.9	0.16	0.21	8.1	6.5	C & f sand, grey clay. Tr. of tin, pyrite.
8	10		5705	29 "	116.0	0.15	0.25	8.5	7.7	C & f sand, grey & brown clay. Pyrite, tr. of ilmenite.
10	12		5706	32½"	103.9	0.06	0.09	2.7	2.7	C & f sand, organic silt, pyrite lumps, wood. Pyrite.
12	14		5707	27½"	169.6	B.L.D. 0.01	0	0	0	C & f sand, organic silt, wood. Pyrite.
14	16		5708	29½"	131.9	B.L.D. 0.01	0	0	0	C & f sand, organic silt, wood, pyrite lumps. Pyrite.
16	18		5709	35 "	120.1	B.L.D. 0.01	0	0	0	C & f sand, organic silt, wood. Pyrite.
18	20		5710	25 "	261.8	B.L.D.	0	0	0	C & f sand, organic silt. Pyrite.
20	22		5711	24 "	569.1	0.26	2.11	88.0	65.6	C & f sand, sm, med. & lge. wash, organic silt, decomposed granite. Lge. amount pyrite.
22	23		5712	11 "	143.0	0.05	0.10	9.3	6.3	Decomposed granite. Pyrite.
23	24		5713	21½"	433.2	B.L.D. 0.01	0	0	0	Decomposed granite. Pyrite.
										648019

* 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 21.50 m. Grade from surface to inferred basement at m
 Total recovered volume, surface to basement l. at 21.5 m 19 g SnO₂ / m³ *

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: STH.M.T CAMERON - BONSER CREEK Hole No.: B.C.8 Collar Co-ordinates: mN mE Drilling Method: Percussion

Surface R.L.: 53.8 m Basement R.L.: m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres.

Date: 18/9/81 Driller: G. Selby Assistant: B. Blake 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	5714	29½LTRS	95.7	0.18	0.25	8.3	7.6	Yellow & grey clay, c & f sand, V. f. tr. of tin, ilmenite.
2	4	5715	23½ "	127.7	0.07	0.12	5.4	3.7	C & f sand, yellow & white clay, heavy drift. Tr. of tin, ilmenite.
4	6	5716	16 "**	116.7	BLD 0.02	0	0	0	C & f sand, white & yellow clay. Pyrite.
6	8	5717	18 "**	151.7	BLD 0.01	0	0	0	C & f sand, white clay. Pyrite.
8	10	5718	33 "**	92.7	0.20	0.26	8.0	8.2	C & f sand, sm. wash, white & brown clay. Pyrite.
10	12	5719	25 "**	89.0	0.10	0.13	5.0	3.9	C & f sand, white clay. Pyrite.
12	14	5720	15 "**	98.6	0.04	0.06	3.7	1.7	White silty clay, c & f sand. Pyrite.
14	16	5721	27 "**	319.4	BLD	0	0	0	C & f sand, sm. & med. wash, grey clay. Pyrite.
16	18	5722	27 "**	247.2	0.03	0.11	3.9	3.2	C & f sand, sm. & med. wash. Pyrite.
18	19	5723	15 "**	165.7	0.19	0.45	30.0	27.9	C & f sand, sm. & med. wash, decomposed granite. Pyrite.
19	20	5724	10 "**	90.0	0.06	0.07	7.7	4.8	Decomposed granite. Pyrite.
20	21	5725	26 "**	249.6	0.05	0.18	6.8	6.8	Decomposed granite, med. wash. Pyrite.
									648020

* 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 18.20 Grade from surface to inferred basement at m g SnO₂ / m³ *
 Total recovered volume, surface to basement l at 18.2 m 5 g SnO₂ / m³ *

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: **STH.M.T. CAMERON** Hole No.: **B.C.9** Collar Co-ordinates: mN mE Drilling Method: **Percussion**
BONSER CREEK

Surface R.L.: **45.4** m Basement R.L.: **27.4** m Cutting Shoe / Bit diameter: **16.02cm.** Theoretical Volume: **40.3** litres

Date: **21/9/81** Driller: **G. Selby** Assistant: **B. Blake** 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		5726	10½LTRS*	153.0	0.08	0.17	16.7	5.4	Black mud, c & f sand, heavy drift. Ilmenite.
2	4		5727	20½"	95.6	0.16	0.22	10.7	6.8	C & f sand, organic silt, (3 pieces of sm. wash). Pyrite.
4	6		5728	14 "	115.2	0.03	0.05	3.5	1.5	C & f sand, organic silt, wood. Pyrite.
6	8		5729	19 "	84.5	0.05	0.06	3.2	1.9	C & f sand, sm. & med. wash, organic silt, white clay. Pyrite.
8	10		5730	20 "	190.2	0.07	0.19	9.5	5.9	C & f sand, med & lge. wash, heavy drift. Pyrite.
10	12		5731	19 "	94.2	0.27	0.36	19.1	11.3	C & f sand, sm. & med. wash, grey & white clay, heavy drift. Tr. of tin, pyrite.
12	14		5732	23 "	89.3	0.10	0.13	5.5	3.9	C & f sand, white clay, sm, med. & lge. wash. V. f. tr. of tin, pyrite.
14	16		5733	27½"	194.6	BLD 0.02	0	0	0	C & f sand, med. wash, white clay, decomposed granite. Pyrite.
16	17		5734	12½"	111.5	0.09	0.14	11.5	8.9	Decomposed granite, med. wash. Pyrite.
17	18		5735	18 "	92.5	0.74	0.98	54.3	60.7	Decomposed granite, sm. & med. wash. Pyrite.
18	19		5736	15½"	96.8	0.29	0.40	25.8	24.9	Decomposed granite. Pyrite.
										648021

* 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 **16** m Grade from surface to inferred basement at m g SnO₂ / m³ †
 Total recovered volume, surface to basement l or **18** m g SnO₂ / m³ †

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

Area: 5TH. MT. CAMERON Hole No.: B.C. 10 Collar Co-ordinates: mN mE Drilling Method: Percussion
BONSER CREEK

Surface R.L.: 44.7 m Basement R.L.: 28.2 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres.

Date: 23/9/81 Driller: G. Selby Assistant: B. Blake 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		5737	20½LTRS	86.0	BLD 0.01	0	0	0	Black mud, c & f sand. Ilmenite.
2	4		5738	23 "	96.3	2.12	2.92	126.8	90.5	C & f sand, sm. & med. wash, organic silt, wood. Tin, pyrite.
4	6		5739	24½"	97.2	0.08	0.11	4.5	3.4	C & f sand, organic silt, wood. Pyrite.
6	8		5740	25 "	93.0	0.23	0.31	12.2	9.4	C & f sand, organic silt, wood, sm. & med. wash. Pyrite.
8	10		5741	28 "	290.7	0.66	2.74	97.9	85.0	C & f sand, sm, med. & lge. wash, white clay. V.f. tr. of tin, pyrite.
10	12		5742	15½"	93.7	0.18	0.24	15.5	7.4	C & f sand, sm. & med. wash, grey & white sandy clay. Pyrite.
12	14		5743	18 ""	94.8	0.07	0.09	5.2	2.8	C & f sand, sm. & med. wash, grey sandy clay. Pyrite.
14	16		5744	23 ""	91.5	0.11	0.14	6.2	4.4	C & f sand, med. wash, grey clay. Pyrite.
16	17		5745	11½""	154.5	BLD 0.02	0	0	0	C & f sand, sm. & med. wash, grey clay, granite. Pyrite.
17	18		5746	11 ""	107.2	0.05	0.07	6.9	4.7	C & f sand, sm. & med. wash, granite. Pyrite.
18	19		5747	11½""	94.6	0.04	0.05	4.8	3.3	C & f sand, med. wash, decomposed granite. Pyrite.
										648022

* 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 16.50 m. Grade from surface to inferred basement at m g SnO₂ / m³ +
 Total recovered volume, surface to basement l. at 16.5 m 25 g SnO₂ / m³ +
 Total recovered tin gSnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

A

Area: PIONEER Hole No: K136 Collar Co-ordinates: 452900 mN 76700 mE Drilling Method: Percussion

Surface R.L.: 89.82 m Basement R.L.: 46.32 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres

Date: 30th April 1981 Driller: T. King Assistant: J. Petrie Sample Washer: S. Moore Geologist: K. Morrison

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	5041	5LTRS	243.3	1.44	5.00		8.62	Black top soil, c & f sand, white clay. Tr. of v.f. tin, ilmenite.
2	4	5042	32 ""					8.62	White clay. Tr. of monazite.
4	6	5043	33½""					8.62	White clay, c & f sand, Tr. of ilmenite, monazite.
6	8	5044	31 ""					8.62	C & f sand, white clay. Ilmenite, monazite.
8	10	5045	36 ""					8.62	C & f sand, white clay. Ilmenite, monazite.
10	12	5046	33½"					8.62	C & f sand, heavy drift, yellow clay. Ilmenite, pyrite.
12	14	5047	20½"					8.62	C & f sand, heavy drift, white clay. Ilmenite, monazite.
14	16	5048	23 ""					8.62	C & f sand, heavy drift, white clay. Ilmenite, monazite.
16	18	5049	32½""					8.62	C & f sand, heavy drift, white clay. Ilmenite, monazite.
18	20	5050	23 ""					8.62	C & f sand, white sandy clay. Ilmenite, monazite.
20	22	5051	66 ""					4.21	C & f sand, heavy drift, white & yellow clay, sm. & Med. wash. Tr. of tin, ilmenite, monazite.
22	24	5052	26 ""					8.62	C & f sand, heavy drift, sm. & med. wash, yellow & clay. Tr. of tin, ilmenite, monazite.
24	26	5053	24 ""					8.62	C & f sand, heavy drift, med. wash, white & yellow clay. Tr. of tin, ilmenite, monazite.
26	28	5054	29½""					8.62	C & f sand, sm, med & lge. wash, white sandy clay. F. tr. of tin, ilmenite, monazite.
28	30	5055	17½""					8.62	C & f sand, yellow clay. Ilmenite, monazite.

648123

Contd./

* 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 43.5 m Grade from surface to inferred basement at m
 Total recovered volume, surface to basement 572.5 l at 43.5 m m 12 g SnO₂/m³ *
 Total recovered tin 8.86 g SnO₂ at m m g SnO₂/m³ +

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

A

Area: **PIONEER** Hole No: **K137** Collar Co-ordinates: **453000** mN **76500** mE Drilling Method: **Percussion**

Surface R.L.: **99.15** m Basement R.L.: **41.55** m Cutting Shoe / Bit diameter: **16.02cm** Theoretical Volume: **40.3** litres

Date: **26/5/81** Driller: **T. King** Assistant: **J. Petrie** Sample Washer: **S. Moore** Geologist: **K. Morrison**

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 0	To 2	5066	36LTRS	203.0	1.99	5.77		7.2	Black top soil, c & f sand, white clay. Tr. of f. tin, ilmenite, monazite.
2	4	5067	32½"					7.2	C & f sand, white & brown clay. Ilmenite, monazite.
4	6	5068	28 "					7.2	C & f sand, white clay. Ilmenite, monazite.
6	8	5069	22 "					7.2	C & f sand, white clay. Ilmenite, monazite.
8	10	5070	28½"					7.2	White clay, c & f sand. Ilmenite, monazite.
10	12	5071	22 "					7.2	C & f sand, heavy drift, white sandy clay. Ilmenite, monazite.
12	14	5072	23 "					7.2	C & f sand, heavy drift. Ilmenite, monazite.
14	16	5073	32 "					7.2	C & f sand, white & yellow clay, heavy drift. Ilmenite, monazite.
16	18	5074	33 "					7.2	C & f sand, white clay, heavy drift. Ilmenite, monazite.
18	20	5075	32 "					7.2	C & f sand, white clay. Ilmenite, monazite.
20	22	5076	25 "					7.2	C & f sand, white clay, brown cement. Ilmenite, monazite.
22	24	5077	37 "					7.2	C & f sand, white clay, brown cement. Ilmenite, pyrite.
24	26	5078	31 "					7.2	C & f sand, heavy drift, organic silt, wood. Ilmenite, pyrite.
26	28	5079	43 "					5.4	C & f sand, heavy drift, white clay, sm. broken wash. Ilmenite, pyrite.
28	30	5080	28 "					7.2	C & f sand, white sandy clay, heavy drift. Ilmenite, pyrite.

648025

* 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 576. m
 Total recvd. volume surface to basement 972.2 l. Grade from surface to inferred basement at 57.6 m 7 g SnO₂/m³ *
 Total recvd. SnO₂ 7.46 g.

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

B

Area: **PIONEER** Hole No: **K137** Collar Co-ordinates: **453000** mN **76500** mE Drilling Method: **percussion**

Surface R.L.: **99.15** m Basement R.L.: **41.55** m Cutting Shoe / Bit diameter: **16.02cm** Theoretical Volume: **40.3** litres

Date **26/5/81** Driller: **T. King** Assistant: **J. Petrie** Sample Washer: **S. Moore** Geologist: **K. Morrison**

Section Metres		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								
30	32	5081	58LTRS*				4.0	C & f sand, sm & med. wash, white & yellow sandy clay. Ilmenite, pyrite.	
32	34	5082	43½"				5.3	C & f sand, sm. & med. wash. Ilmenite, pyrite.	
34	36	5083	35½"				7.2	C & f sand, sm. & med. wash, yellow clay. Ilmenite, pyrite, monazite.	
36	38	5084	28½"				4.9	C & f sand, sm. & med. wash, grey silty clay. Ilmenite, pyrite.	
38	40	5085	47 "				7.2	C & f sand, sm. & med. wash. Pyrite.	
40	42	5086	30 "				7.2	C & f sand, sm, med. & lge. wash. Pyrite.	
42	44	5087	26 "				7.2	C & f sand, sm. & med. wash, grey clay. Pyrite.	
44	46	5088	24½"				7.2	C & f sand, sm. & med. wash, grey clay. Pyrite.	
46	48	5089	23 "				7.2	C & f sand, sm, med. & lge. wash, grey clay. Pyrite.	
48	50	5090	27 "				7.2	C & f sand, grey clay, med. & lge. wash. Pyrite.	
50	52	5091	22 "	93.7	0.09	0.12	3.8	C & f sand, grey clay, sm, med. & lge. wash. Pyrite.	
52	54	5092	37 "	95.1	0.09	0.12	3.8	C & f sand, med. wash, grey clay. Pyrite.	
54	56	5093	37½"	94.3	0.08	0.11	3.3	C & f sand (Feldspa showing). Pyrite.	
56	57	5094	45½"	111.2	0.20	0.32	7.0	C & f sand, grey silty clay, med. wash. Pyrite.	
57	58	5095	57 "	92.1	0.21	0.28	4.8	C & f sand, sm. & med. wash, decomposed granite. V.f. tr. of tin, pyrite.	

648020

* Grade calculated by relating recovered volume to recovered tin + Grade calculated by relating Redford factored theoretical volume to recovered tin Rad F = 80%
 Drillers reported basement at 57.6 m Grade from surface to inferred basement at 57.6 m 7 g SnO2 / m³ *
 Total recvd. volume surface to basement 972.2 l.

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

A

Area: PIONEER Hole No.: K138 Collar Co-ordinates: 453300 mN 76700 mE Drilling Method: PERCUSSION

Surface R.L.: 104.53 m Basement R.L.: 71.03 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres.

Date: 10th June 1981 Driller: T. King Assistant: J. Petrie Sample Washer: S. Moore Geologist: K. Morrison

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 0	To 2	6201	35LTRS*	123.4	0.81	1.43		3.4	C & f sand, white & yellow sandy clay. V. f. tr. of tin, ilmenite.
2	4	6202	58LTRS*					1.9	Yellow & white clay, f. silty sand. Ilmenite, monazite.
4	6	6203	33"					3.4	Yellow & white clay, c & f sand, heavy drift. Ilmenite, monazite.
6	8	6204	50"					2.2	White clay, c & f sand. Tr. of monazite.
8	10	6205	37½"					3.4	White clay, yellow sandy clay, c & f sand. Ilmenite, monazite.
10	12	6206	61"					1.8	White & yellow clay, c & f sand. Ilmenite, monazite.
12	14	6207	30½"					3.4	C & f sand, brown & white clay. Ilmenite, monazite.
14	16	6208	52"					2.1	C & f sand, white sandy clay. Ilmenite, monazite.
16	18	6209	37"					3.4	C & f sand, white sandy clay. Ilmenite, monazite.
18	20	6210	57"					1.9	C & f sand, white & brown clay. Ilmenite, monazite.
20	22	6211	47"					2.3	C & f sand. Ilmenite, monazite.
22	24	6212	32"					3.4	C & f sand. Ilmenite, monazite.
24	26	6213	45"					2.4	C & f sand, heavy drift. Ilmenite, monazite.
26	28	6214	40½"	92.7	0.67	0.89		21.9	C & f sand, heavy drift, sm. wash, yellow & white sandy clay. Tr. of tin, ilmenite, monazite.
28	30	6215	26"	96.1	0.27	0.37		11.5	C & f sand, brown cement, heavy drift, sm. wash. Tr. of tin, ilmenite, monazite.

648928

* 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 33.50 m. Grade from surface to inferred basement at m g SnO₂ / m³ *
 Total recovered volume, surface to basement 714 l. at 33.50 m 5 g SnO₂ / m³ +
 Total recovered tin 3.54 g SnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG A

Area: PIONEER Hole No: K139 Collar Co-ordinates: 452350 mN 76950 mE Drilling Method: PERCUSSION

Surface R.L.: 92.01 m Basement R.L.: 49.57 m Cutting Shoe / Bit diameter: 16.02cm Theoretical Volume: 40.3 litres

Date: 9th July 1981 Driller: G. Selby Assistant: B. Blake Sample Washer: S. Moore Geologist: K. Morrison

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		6221	22½LTRS	197.3	2.02	5.69		10.39	Black top soil, c & f sand, yellow clay, brown cement. Tr. of f. tin, ilmenite, monazite.
2	4		6222	21 "					10.39	C & f sand, white & yellow sandy clay, brown silty clay, heavy drift. Tr. of f. tin, ilmenite, monazite.
4	6		6223	28 "					10.39	C & f sand, white clay. Ilmenite, monazite.
6	8		6224	25½"					10.39	C & f sand, white clay. Ilmenite, monazite.
8	10		6225	28 "					10.39	white & brown clay, c & f sand. Ilmenite, monazite, pyrite.
10	12		6226	27 "					10.39	C & f sand, organic silt, heavy drift, wood, pyrite lumps, pyrite.
12	14		6227	31 "					10.39	C & f sand, heavy drift, white clay. Ilmenite, monazite.
14	16		6228	35 "					10.39	C & f sand, brown silty clay, pyrite lumps. Ilmenite, pyrite.
16	18		6229	45½"					7.36	C & f sand, organic silt, heavy drift. Ilmenite, pyrite.
18	20		6230	19½"					10.39	C & f sand, organic silt, heavy drift. Ilmenite, monazite.
20	22		6231	63 "					5.32	C & f sand, heavy drift, sm. wash, white clay. Sm. amount tin, ilmenite, monazite.
22	24		6232	39 "					10.39	C & f sand, heavy drift, organic silt.
24	26		6233	16½"					10.39	C & f sand, organic silt, wood. Ilmenite, monazite.
26	28		6234	53 "					6.32	C & f sand, organic silt, pyrite lumps. Ilmenite, pyrite, monazite.
28	30		6235	91 "					3.68	C & f sand, heavy drift, organic silt. Ilmenite, pyrite.

648000

* 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 42.50 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 _____ g SnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG B

Area: PIONEER Hole No.: K139 Collar Co-ordinates: 452 350 mN 76 950 mE Drilling Method: PERCUSSION

Surface R.L.: 92.01 m Basement R.L.: 49.51 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres

Date: 9/7/81 Driller: G. Selby Assistant: B. Blake Sample Washer: S. Moore Geologist: T. Morrison

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									
30	32		6236	63½LTRS					5.27	C & f sand, heavy drift. Ilmenite, pyrite.
32	34		6237	42 "					7.97	C & f sand, heavy drift, organic silt. Ilmenite, pyrite.
34	36		6238	18 "	114.8	0.73	1.20		37.13	C & f sand, med. wash, organic silt, wood. Tr. of tin, pyrite, ilmenite.
36	38		6239	20½"	86.2	1.35	1.66		51.56	C & f sand, birds eye, sm. & med. wash, grey sandy clay. Tr. of tin, pyrite.
38	40		6240	18½"	165.0	2.44	5.75		178.39	C & f sand, birds eye, med. & lge. wash, white & grey sandy clay. Sm. amount tin, pyrite.
40	41		6241	41 "	228.8	0.32	1.05		25.51	C & f sand, decomposed granite, birds eye wash. Tr. of tin, pyrite.
41	42		6242	115 ""	337.7	8.21	39.61		344.4	C & f sand, decomposed granite, birds eye wash, pyrite lumps. V. f. tr. of tin, pyrite.
42	43		6245	86 ""	226.6	5.72	18.52		81.7	C & f sand, heavy drift, decomposed granite. Sm. amount tin, pyrite.
43	44		6246	15 ""	91.7	0.79	1.03		64.20	Decomposed granite. Tr. of tin, pyrite.
44	45		6247	26 ""	95.1	0.16	0.22		8.36	Decomposed granite. Pyrite.
45	46.50		6248	20½""	93.2	0.10	0.13		6.49	Decomposed granite. Pyrite.
										648031

* 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 42.50 m. Grade from surface to inferred basement at _____ m g SnO₂ / m³ *
 Total recovered volume, surface to basement 907 at 40.5 m 70 g SnO₂ / m³ .
 Total recovered tin 74.86 gSnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG A

Area: **PIONEER** Hole No: **K140** Collar Co-ordinates: **452350** mN **77.050** mE Drilling Method: **Percussion**

Surface R.L.: **92.11** m Basement R.L.: **49.11** m Cutting Shoe / Bit diameter: **16.02cm.** Theoretical Volume: **40.3** litres

Date: **29/7/81** Driller: **G. Selby** Assistant: **B. Blake** Sample Washer: **S. Moore** Geologist: **K. Morrison**

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	6249	20 1/2 LTRS	118.6	0.76	1.29	39.94	Black top soil, c & f sand, heavy drift, sm. wash. Sm. amount f. tin, ilmenite, monazite.	
2	4	6250	32 1/2 "	922.0	0.08	1.05	1.92	C & f sand, white clay, heavy drift. Tr. of f. tin, ilmenite, monazite.	
4	6	6251	31 "				1.92	C & f sand, brown clay, heavy drift. Ilmenite, monazite.	
6	8	6252	28 "				1.92	C & f sand, white clay. Ilmenite, monazite.	
8	10	6253	27 1/2 "				1.92	C & f sand, white clay. Ilmenite, monazite.	
10	12	6254	28 "				1.92	C & f sand, heavy drift. Ilmenite, monazite.	
12	14	6255	24 1/2 "				1.92	C & f sand, white clay, heavy drift. Tr. of tin, ilmenite, monazite.	
14	16	6256	25 "				1.92	C & f sand, organic silt, white clay. Pyrite.	
16	18	6257	28 "				1.92	C & f sand, organic silt, wood, heavy drift. Pyrite.	
18	20	6258	31 1/2 "				1.92	C & f sand, organic silt, wood. Pyrite.	
20	22	6259	16 "				1.92	C & f sand, organic silt, wood. Pyrite.	
22	24	6260	48 "				1.29	C & f sand, organic silt, brown clay. Pyrite.	
24	26	6261	23 1/2 "				1.92	Brown clay, silt, wood, c & f sand. Pyrite.	
26	28	6262	26 1/2 "				1.92	Brown clay, silt. Pyrite.	
28	30	6263	50 1/2 "				1.23	C & f sand, brown clay. Pyrite.	

648032

* 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 **43** m. Grade from surface to inferred basement at **43.0** m. g SnO₂ / m³ *
 Total recovered volume, surface to basement **673** litres at **43.0** m. 110 g SnO₂ / m³
 Total recovered tin **108.1** g SnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

B

Area **PIONEER** Hole No: **K140** Collar Co-ordinates **452350** mN **77050** mE Drilling Method: **Percussion**

Surface R.L. **92.11** m Basement R.L. **49.11** m Cutting Shoe / Bit diameter: **16.02cm.** Theoretical Volume: **40.3** litres

Date **29/7/81** Driller: **G. Selby** Assistant: **B. Blake** Sample Washer: **S. Moore** Geologist: **K. Morrison**

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									
30	32		6264	31LTRS				1.92		C & f sand, brown clay, pyrite lumps. Pyrite.
32	34		6265	61 "				1.02		C & f sand, brown clay, heavy drift, pyrite.
34	36		6266	15½"				1.92		C & f sand, brown clay. Ilmenite, pyrite, monazite.
36	38		6267	19½"	102.0	0.33	0.48	14.91		C & f sand, yellow, white, brown clay. Tr. of tin, ilmenite.
38	40		6268	24 "	95.1	3.80	5.16	160.13		C & f sand, heavy drift, sm. & med. wash, yellow white clay. Sm. amount tin, ilmenite.
40	42		6269	65 "	134.2	27.86	53.41	821.72		C & f sand, heavy drift, sm. & med. wash, yellow white clay, brown cement. Sm. amount tin, ilmenite.
42	43		6270	16 "	159.3	5.32	12.11	751.04		C & f sand, birds eye wash, med. wash, decomposed granite. Sm. amount tin, pyrite, ilmenite.
43	44		6271	17½"	113.1	8.26	13.35	827.90		C & f sand, decomposed granite, few pieces of birds eye wash. Tin, ilmenite, pyrite.
44	45		6272	14 "	103.2	5.35	7.89	489.29		Decomposed granite. sm. amount tin, ilmenite, pyrite.
45	46		6273	24 "	100.6	6.87	9.87	411.38		Decomposed granite. Sm. amount tin, pyrite.
46	47		6274	25½"	120.6	2.01	3.46	135.80		Decomposed granite. Tr. of tin, pyrite.

648033

* 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 43 m. Grade from surface to inferred basement at _____ m _____ g SnO₂ / m³ *
 Total recovered volume, surface to basement 673 l at 43.0 m 110 g SnO₂ / m³ +
 Total recovered tin 1081 g SnO₂

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

A

Area: PIONEER Hole No.: K141 Collar Co-ordinates: 52350 mN 77150 mE Drilling Method: Percussion

Surface R.L.: 90.85 m Basement R.L.: 49.35 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres

Date: 14.8.81 Driller: G. Selby Assistant: B. Blake 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	6275	24LTRS	155.0	1.79	3.96	7.9	6.8	Black top soil, c & f sand, brown cement. Tr. of f. tin, ilmenite, monazite.
2	4	6276	30 "				7.9	6.8	White & yellow clay, f. silty sand. Ilmenite, monazite.
4	6	6277	24 "				7.9	6.8	C & f sand, white clay. Ilmenite, monazite.
6	8	6278	19½"				7.9	6.8	C & f sand, white sandy clay. Ilmenite, monazite.
8	10	6279	25 "				7.9	6.8	C & f sand, heavy drift, white clay. Ilmenite, monazite.
10	12	6280	28 "				7.9	6.8	C & f sand, heavy drift, white clay. Ilmenite, monazite.
12	14	6281	24½"				7.9	6.8	C & f sand, white clay, heavy drift. Ilmenite, monazite.
14	16	6282	26 "				7.9	6.8	C & f sand, white & brown clay, pyrite lumps. Pyrite.
16	18	6283	25 "				7.9	6.8	C & f sand, heavy drift. Ilmenite, pyrite.
18	20	6284	40 "				7.9	6.8	C & f sand, heavy drift, organic silt. Ilmenite, pyrite.
20	22	6285	23 "				7.9	6.8	C & f sand, heavy drift, white clay. Ilmenite, monazite.
22	24	6286	24 "				7.9	6.8	C & f sand, white clay, heavy drift. Ilmenite, monazite.
24	26	6287	16½"				7.9	6.8	C & f sand, white clay. Ilmenite, monazite.
26	28	6288	24½"				7.9	6.8	C & f sand, white & brown clay. Ilmenite, monazite.
28	30	6289	33 "				7.9	6.8	C & f sand, white & brown clay, heavy drift. Ilmenite, monazite, pyrite.

648134

* 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 41.50 m. Grade from surface to inferred basement at _____ m _____ g SnO₂ / m³ *

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG B

Area: PIONEER Hole No: K141 Collar Co-ordinates: 52350 mN 77150 mE Drilling Method: Percussion

Surface R.L.: 90.85 m Basement R.L.: 49.35 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres.

Date: 14.8.81 Driller: G. Selby Assistant: Blake 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									
30	32		6290	40 1/2 LTRS*				7.9	6.8	C & f sandm white clay, heavy drift, brown cement. Pyrite, ilmenite.
32	34		6291	35 ""				7.9	6.8	C & f sand, yellow clay, heavy drift. Pyrite, ilmenite.
34	36		6292	41 ""				7.9	6.8	C & f sand, heavy drift, sm. wash. Tr. of tin, ilmenite, pyrite.
36	38		6293	30 1/2 ""	110.3	3.33	5.25	172.0	162.8	C & f sand, sm. & med. wash, yellow sandy clay, heavy drift. Sm. amount tin, ilmenite.
38	40		6294	42 1/2 ""	124.8	8.27	14.74	346.9	346.9	C & f sand, med. & sm. wash, yellow & white sandy clay. Tin, ilmenite, monazite.
40	42		6295	23 ""	117.4	7.86	13.18	573.1	408.9	C & f sand, med. wash, white clay, decomposed granite. Tin, ilmenite, monazite.
42	43		6296	21 ""	147.3	0.15	0.32	15.0	15.0	Decomposed granite. Pyrite.
43	44		6297	21 1/2 ""	130.4	0.04	0.07	3.5	3.5	Decomposed granite. Pyrite.
44	45		6298	8 1/2 ""	116.9	0.03	0.05	5.9	3.1	Decomposed granite. Pyrite.

648035

* 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 41.50 m. Grade from surface to inferred basement at m g SnO₂ / m³ *
 Total recovered volume, surface to basement 600 l. at 41.5 m 51 g SnO₂ / m³ +

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG A

Area: PIONEER Hole No: K142 Collar Co-ordinates: 45.2 350 mN 77250 mE Drilling Method: Percussion

Surface R.L.: 97.89 m Basement R.L.: 51.89 m Cutting Shoe / Bit diameter: 16.02cm. Theoretical Volume: 40.3 litres

Date: 31/8/81 Driller: G. Selby Assistant: B. Blake 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		4801	14LTRS	128.5	1.88	3.45	36.3	26.8	C & f sand, white clay (overburden). Tr. of f. tin, ilmenite, monazite.
2	4		4802	17 "				36.3	26.8	C & f sand, white & brown clay (overburden). Tr. of f. tin, ilmenite, monazite.
4	6		4803	23 "				36.3	26.8	C & f sand, white & yellow clay, heavy drift, (overburden). Tr. of f. tin, ilmenite, monazite.
6	8		4804	41 "				36.3	26.8	C & f sand, white sandy clay, heavy drift. (1m overburden)(1m maiden ground). Tr. of f. tin, ilmenite, monazite.
8	10		4805	46 "	143.7	1.61	3.31	7.4	6.4	C & f sand, white, yellow & brown clay. V. f. tr. of tin, ilmenite, monazite.
10	12		4806	22½"				7.4	6.4	C & f sand, white clay. Ilmenite, monazite.
12	14		4807	18 "				7.4	6.4	C & f sand, white & brown clay. Ilmenite, monazite.
14	16		4808	22½"				7.4	6.4	C & f sand, white clay. Ilmenite, monazite.
16	18		4809	26½"				7.4	6.4	C & f sand, heavy drift. Ilmenite, monazite.
18	20		4810	30 "				7.4	6.4	C & f sand, brown clay, heavy drift. Ilmenite, monazite.
20	22		4811	49 "				7.4	6.4	C & f sand, heavy drift, white clay. Tr. of tin, ilmenite, monazite.
22	24		4812	27 "				7.4	6.4	C & f sand, brown clay, organic silt. Ilmenite, monazite.
24	26		4813	28½"				7.4	6.4	C & f sand, white silty clay. Ilmenite, monazite.
26	28		4814	39½"				7.4	6.4	C & f sand, heavy drift. Ilmenite, monazite.
28	30		4815	13 "				7.4	6.4	C & f sand, white clay. Ilmenite, monazite.

648100

* 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 46 m. Grade from surface to inferred basement at 46 m. g SnO₂ / m³ *
 Total recovered volume, surface to basement m. g SnO₂ / m³ +
 Total recovered tin gSnO₂ Contd./ Calculated to sample 4829 * See Appendix 170

AMDEX MINING LIMITED - NORTH EAST TASMANIA DRILL LOG

B.

Area: PIONEER Hole No: K142 Collar Co-ordinates: 45 2 350 mN: 77250 mE Drilling Method: Percussion

Surface R.L.: 97.89 m Basement R.L.: 51.89 m Cutting Shoe / Bit diameter: 16.02cm Theoretical Volume: 40.3 litres

Date: 31/8/81 Driller: G. Selby Assistant: B. Blake 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		4816	15LTRS				7.4	6.4	C & f sand, white clay. Ilmenite, monazite.
32	34		4817	32 "				7.4	6.4	C & f sand, heavy drift. Ilmenite, monazite.
34	36		4818	27 1/2 "				7.4	6.4	C & f sand, heavy drift, white clay. Ilmenite, monazite.
36	38		4819	25 1/2 "				7.4	6.4	C & f sand, white clay. Ilmenite, monazite.
38	40		4820	21 "				7.4	6.4	C & f sand, white clay. Ilmenite, Monazite.
40	42		4821	39 "**	109.4	15.23	23.80	610.3	738.3	C & f sand, sm. & med. wash, white clay. Tin, ilmenite, monazite.
42	43		4822	16 1/2 "**	132.7	10.24	19.41	1176.5	1204.2	C & f sand, sm. & med. wash, grey clay. Tin, ilmenite, monazite.
43	44		4823	8 1/2 "**	125.9	1.92	3.45	406.2	214.2	C & f sand, sm. & med. wash, white & grey clay. Sm. amount tin, ilmenite.
44	45		4824	13 "**	107.8	8.11	12.49	960.7	774.8	C & f sand, birds eye & sm. wash, grey sandy clay. Tin, ilmenite.
45	46		4825	13 "**	214.0	14.10	43.11	3316.8	2674.1	C & f sand, birds eye & med. wash, grey sandy clay, decomposed granite. Lge amount tin, ilmenite.
46	47		4826	8 1/2 "**	118.5	3.68	6.53	768.7	405.4	C & f sand, decomposed granite. Ilmenite.
47	48		4827	21 "**	128.4	3.44	6.31	300.5	300.5	Decomposed granite. Ilmenite.
48	49		4828	26 "**	112.0	3.22	5.15	198.2	198.2	Decomposed granite. Sm. amount tin, ilmenite.
49	50		4829	16 "**	97.0	1.75	2.43	151.6	150.4	Decomposed granite. Sm. amount tin, ilmenite.
50	51		4830	56 "**	474.5	29.66	201.05	3590.2	3590.2	C & f sand, birds eye wash, decomposed granite. Lge. amount tin, ilmenite.

6487

* 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 46 m Grade from surface to inferred basement at 51 m
 Total recovered volume, surface to basement = 1 * See Appendix at +6 m 170 g SnO₂/m³ +
 Total recovered tin = g SnO₂

Appendix to Drill Hole K142

The results for the lower part of drill hole K142 cannot be satisfactorily explained. Further information and several hypotheses are listed below.

a) Drilling account:

- Decomposed granite definitely first recovered at 46m.
- One metre samples were dug using normal procedure reaching 50m mid Friday afternoon. The driller then attempted to jack. This manoeuvre failed. In the mean time the sample washer washed the last sample up unto this stage (4829). The tin content appeared higher than expected. A decision was then made to drill further the following Monday.
- First up Monday morning the hole was calculated to contain 4m. of run-in. This was partly in the form of exceedingly thick "floater" material. Large particles consisted of lumps of finely mottled white-grey-green clay, birds eye wash, clasts of hard and soft Mathinna beds and rare lumps of granite. The run-in was collected, washed and assayed - the results are:

Recovery - 79 litres Weight Conc. - 532.7g
 %Sn - 27.11 Grade - 2611 g/m³

Casing was then advanced to 49.5m. Large recoveries of very thick floater continued to the end of the hole. From 50-54.3m granite lumps and wash continued to be recovered. The interval from 54.3 - 55 was washed separately. No wash was recovered. Cassiterite content was minimal. This is not apparent from the drill logs.

b) Possible explanations.

- 1/ Salting of hole over weekend. - Improbable as drive pump blocked the hole.
- 2/ Run-in occurred from the 46m level over the weekend following "caving" of the uncased granite. The turbid nature of the material then made it virtually impossible to clean the hole out.
- 3/ The hole passed through a granite boulder at or about the 50m level back into wash. Again the high viscosity of the slurry would make it difficult to clean the hole out, especially if it was not cased.

Contd.. 2

Contd..

c) Grades.

For purposes of deriving a bore grade the second explanation has been accepted - i.e. all tin below 50m termed run-in.

i.e. Grade Surface to 46m = $170\text{g/m}^3\text{SnO}_2$.

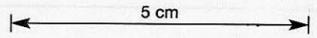
Other grades that can be computed are:

i) Grade deleting the transported overburden -

i.e. over 38.5m from original land surface to 46m = $198\text{g/m}^3\text{SnO}_2$

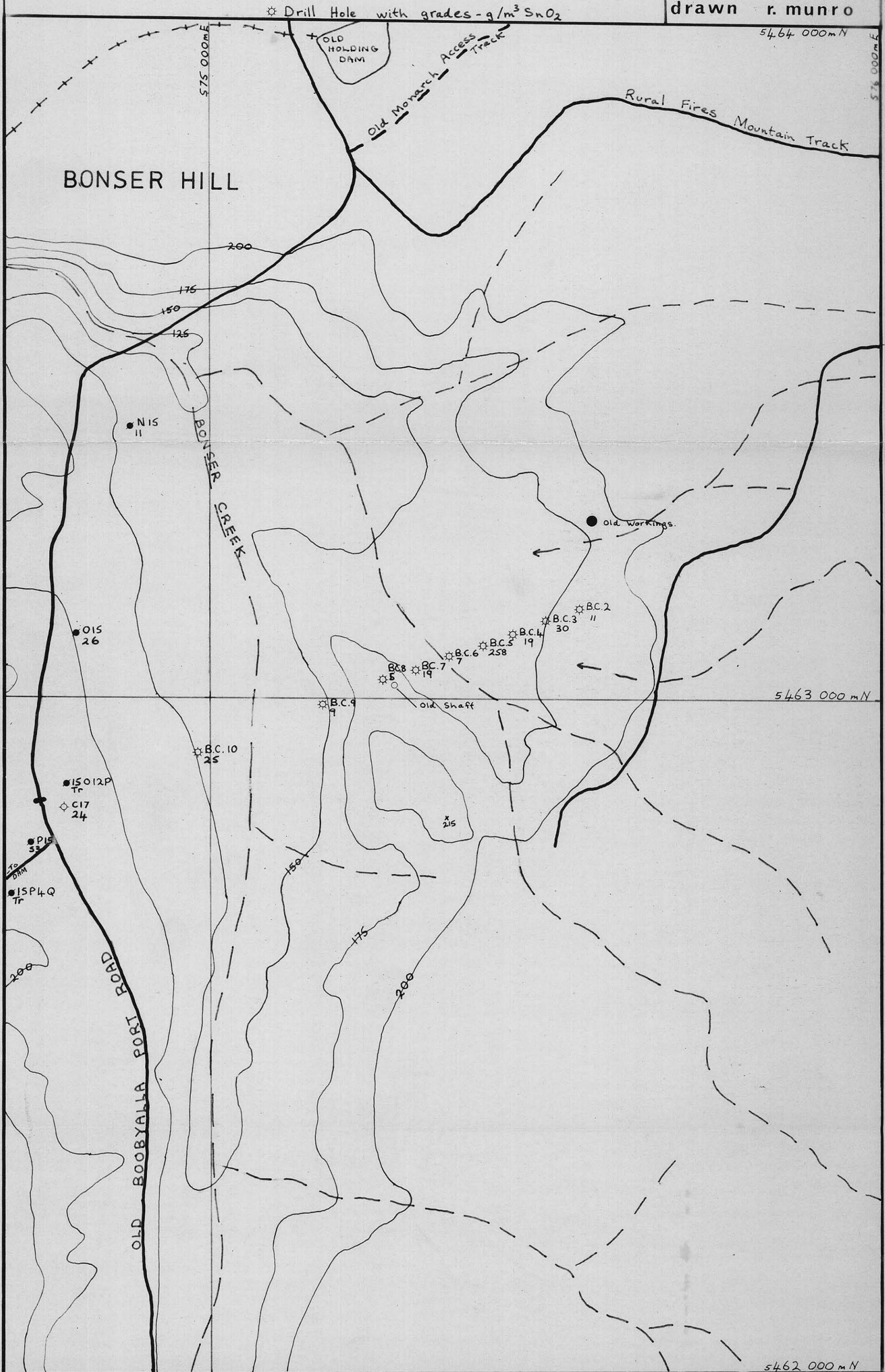
ii) Grade from present surface to 54.3m = $289\text{g/m}^3\text{SnO}_2$

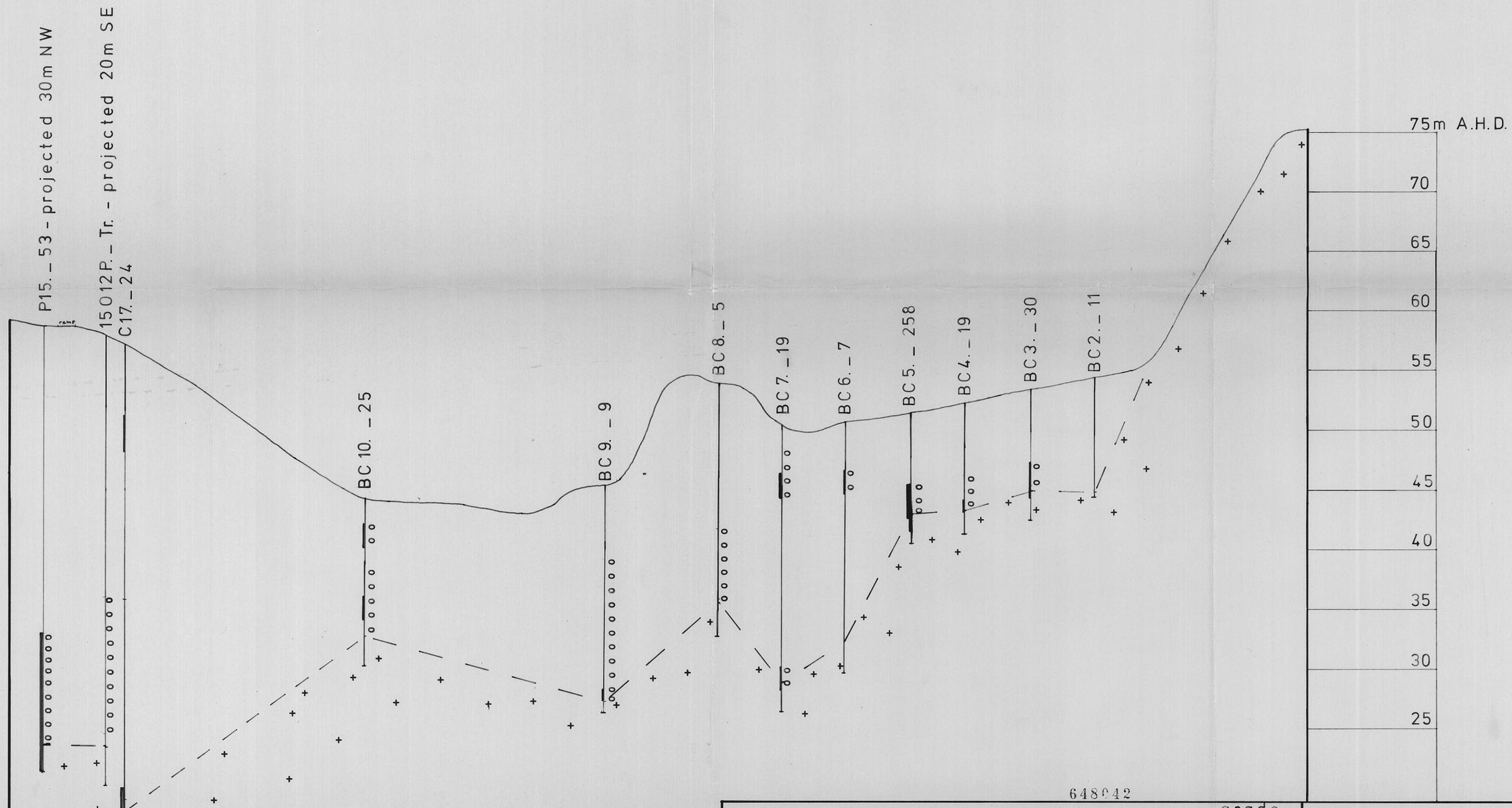
RM/CM



AMDEX MINING LTD. DRILLING — BONSER CREEK — EL 2/77 NORTH EAST TASMANIA

scale 1:5000
date 9. 9. 81.
figure 2
data r. munro
drawn r. munro





648942

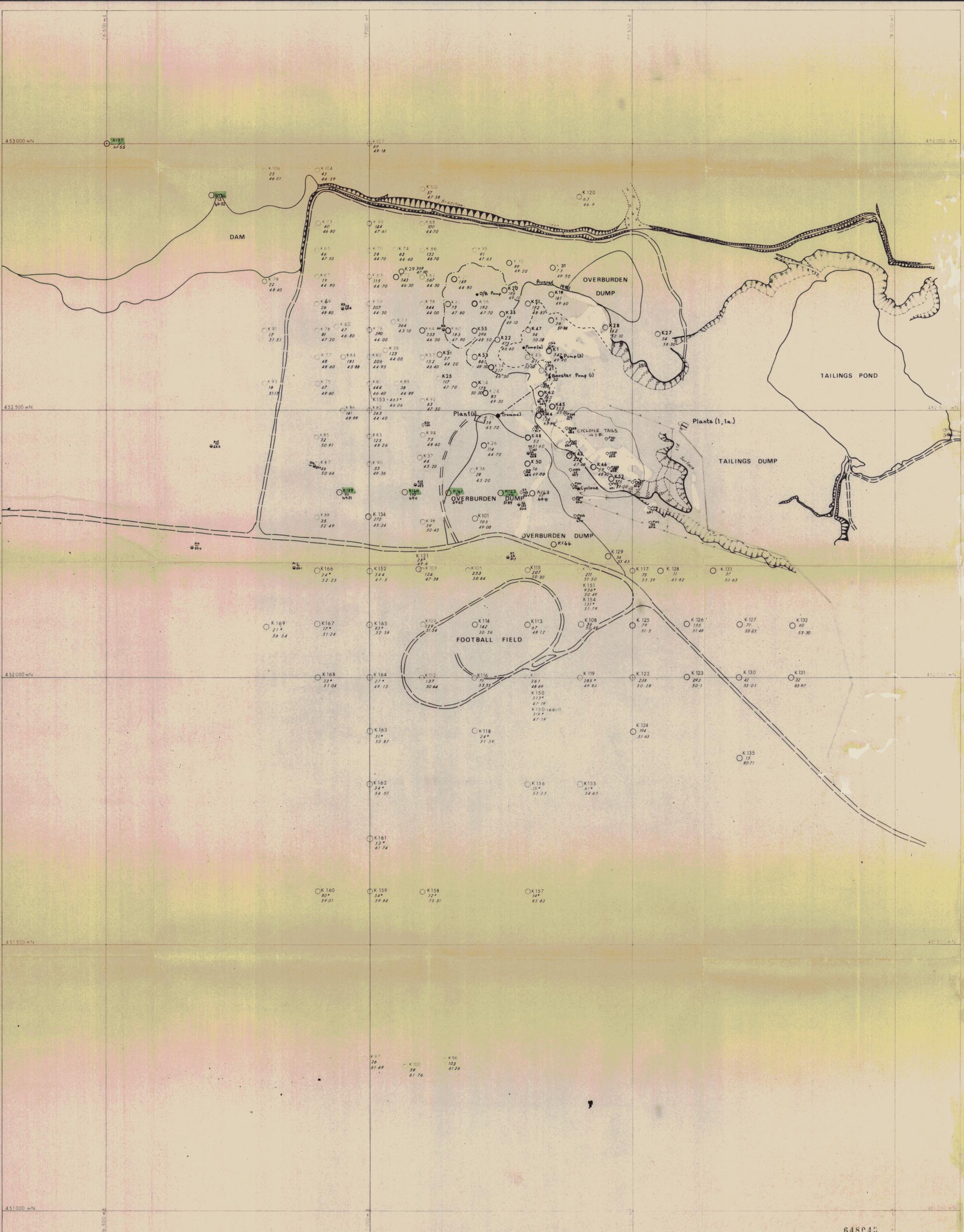
AMDEX MINING LTD.
GEOLOGICAL CROSS SECTIONS
BONSER CREEK - EL 2/77
N.E. TASMANIA



grade
 - below 50 g/m³
 - 51-99 g/m³
 - above 100 g/m³
 o - wash

hor. scale	1:2000
vert. scale	1:200
figure	3
date	24.9.81
drawn	R Munro

K138
5
7603

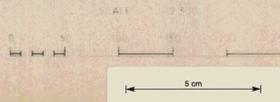


LEGEND

- Road
- Track
- Power line
- Swamp
- Embankment
- Pit face
- Water pipe

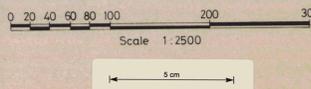
○ K100
56
61.76
Kibuka percussion drill hole
overall grade g SnO₂ / m³
Basement R.L.
* Grade calculated by relating Radford
factored volume to recovered tin
(Rad fact = 80%)

- Drilling - Pioneer Tin Mining Co.
- Drilling - Austrel Malay
- Drilling - Storeys Creek Tin Mining Co.



648P43

Amdex Mining Limited
N.E. TASMANIA
PIONEER TIN MINE
PIONEER DRILLING,
SEPTEMBER 1980



Scale 1:2500
 Date Oct. 1961
 Data R Munro
 Drawing No. P136/102
 Figure 4

**WESTERN ENDURANCE COMPILATION - STAGE 1
 LOCATION OF AMDEX ENDURANCE DRILLING**

CONTOUR INTERVAL ~ 7.62 m (25ft)

DRILL HOLE IDENTIFICATION LEGEND				
SYMBOL	LEASE HOLDER	DRILLING COMPANY	METHOD	YEAR
+GD, *P5, *Q52	Endurance Tin Mining Co.	Endurance Tin Mining Co.	Hand Plant Bores	pre 1953
•R15	Endurance Tin Mining Co.	Endurance Tin Mining Co.	Hand Plant - "R" Bores	1940's
-4	Endurance Tin Mining Co.	W.L. Sides and Co.	Percussion	1967
•16	Endurance Tin Mining Co.	Tasmanian Government	Percussion	1969
•P126	B.M.I. Mining	W.L. Sides and Co.	Percussion	1971-1972
+A146	B.M.I. Mining	H.J. Stackpole B.M.I. Mining	Auger-non sample	1971-1972
+ERC1	Amdex Mining Limited	W.L. Sides and Co. Mono Pumps	Reverse Circulation	1980
+EPS1, +EP31	Amdex Mining Limited	Wallis Geotechnical Drillers Amdex Mining Limited	Percussion	1979-1981