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DESG

E.L. 2/77
South Mt. Cameron
Tasmania
Report for Period
8.3.78 to 7.9.78

MICROFILMED

Kibuka Mines Pty. Limited
Project D 137

A.W. Fleming
13th September, 1978

Adrian Fleming

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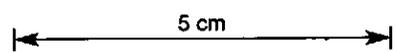
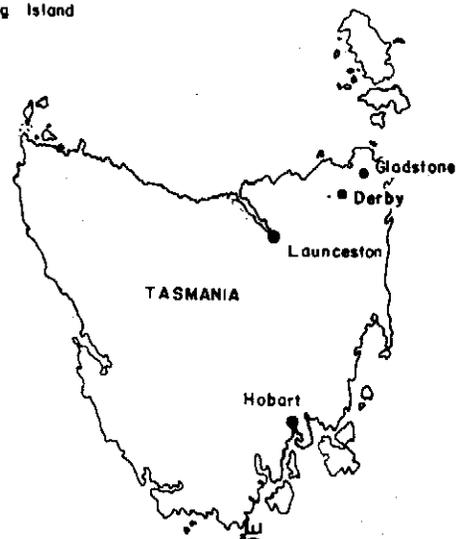
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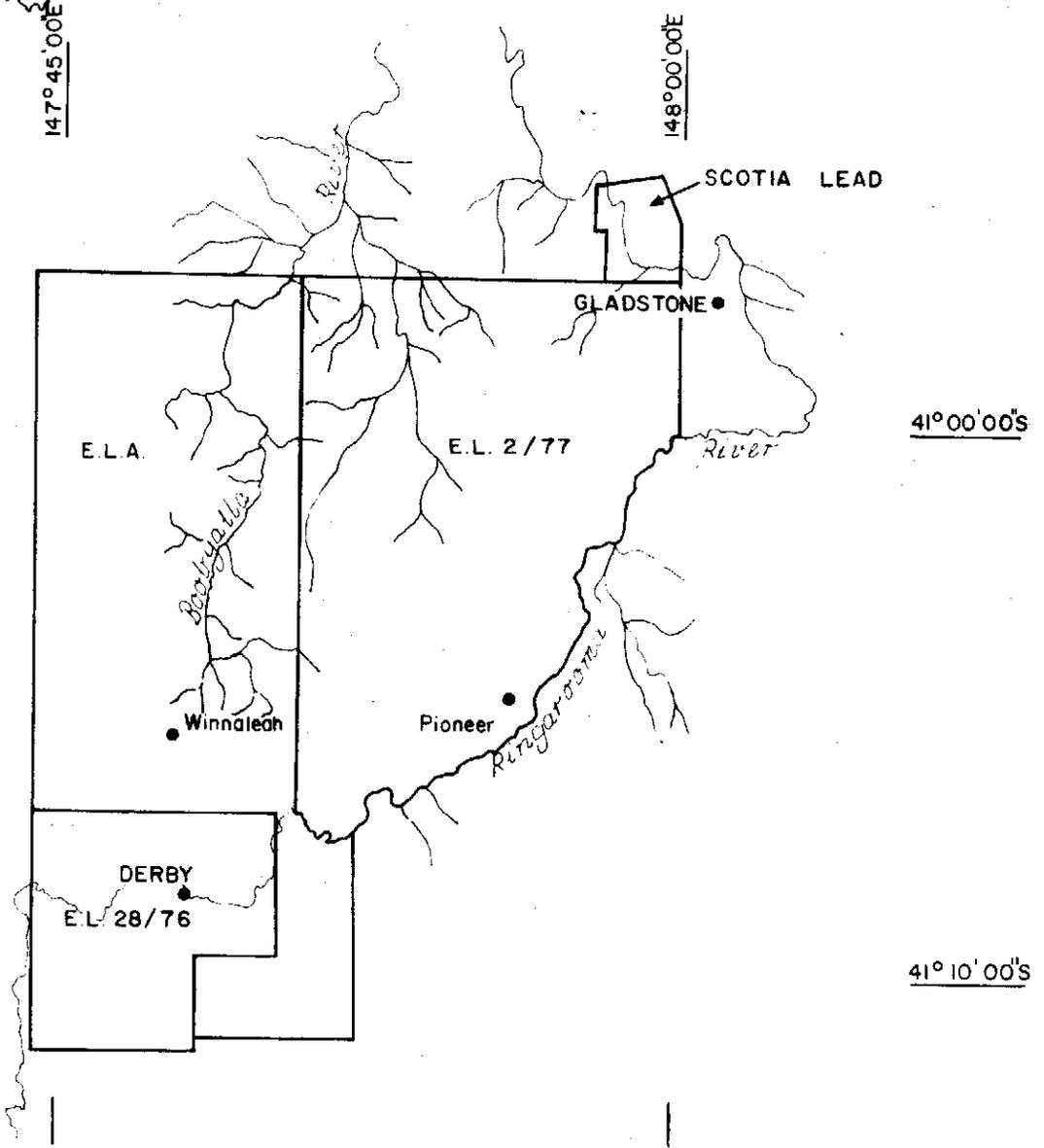
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147° 45' 00"E

148° 00' 00"E



NORTH - EASTERN TASMANIA LOCATION MAP
 SHOWING CURRENT E.L.'S

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INTRODUCTION

During the period of tenure covered by this report, several types of geological activity have been carried out within the Exploration Licence.

A start has been made on the establishment of a viable conceptual model which will satisfactorily explain the depositional history of Tertiary alluvial material in the North-East of Tasmania. We consider that to effectively carry out exploration for tin in this area, an understanding of the geology of the area is a first prerequisite. Examination of outcrop at our mining operation at Pioneer and examination of Tertiary gravels and other material retrieved during drilling has been undertaken. A review of all data pertaining to exploration and exploitation of tin in this region has been carried out at the Mines Department Library in Hobart. Procedures have been put in train to acquire satisfactory base maps and aerial photography which will facilitate further mapping of the geology in the area to complement the mapping carried out by the Tasmanian Department of Mines and also earlier Company geological mapping.

The Company's two Cable Tool Percussion Drill Rigs were active during the period of the report. Drilling was carried out at Clarence and at the Pioneer Mine.

A start was made on the collection of electrical geophysical information which may be useful in the future to facilitate surface geophysical exploration for tin mineralisation. Although a number of attempts were made to collect downhole electrical geophysical data, this was successful at one hole only, located at Clarence.

DRILLING

During the six month period, drilling was carried out by the Company's Cable Tool Percussion Rigs at two locations.

At Clarence (the area has also been called Hasties), on the western margin of Mt. Cameron, seventeen holes were completed. Drilling began on 17th February, and the last hole was completed in the middle of June. During this period 968.5 feet of drilling was completed. The location of these drill holes is shown on Drawing No. 136/21. All holes were drilled to granite basement.

The objective of the drilling at Clarence was to check grades indicated on an old undated plan of unknown origin, which was found among the records of B.M.I. at South Mt. Cameron.

Tin grades, expressed as pounds of SnO_2 per cubic yard are shown on the enclosed drill logs (Appendix I). It is evident from the drill logs that interesting concentrations of tin are located in the upper parts of some of the holes. No interesting tin values were found on the granite basement. The tin recovered during drilling was found to be fine grained. No screening of the tin concentrates was carried out, however.

The locations of the holes on Drawing No. 136/21 is only shown approximately as are the lines of drilling transferred from the old map found among B.M.I. records. The locations of the holes have not been accurately surveyed in, so no sections are included with this report. In due course the holes will be surveyed and located with respect to the state grid. At that time sections and a more detailed location plan will be forwarded.

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GEOLOGY

General

The Tertiary, tin bearing alluvial sediments of N.E. Tasmania were formed as extensive fill deposits in topographically low areas between granitic source rocks. Much of this alluvial material lies beneath the present Ringarooma and Boobyalla drainage systems and is covered by Kibuka/Amdex Mining exploration licences. The primary lode tin formed in greissen cappings or in pegmatitic veins through the Devonian granite, granodiorite and ademellite plutonic masses. The cassiterite grains resist chemical attack and are concentrated, owing to their high specific gravity in placer deposits known as deep leads, which coincide with the ancient drainage courses. Surface run off, estuarine and coastal processes have also contributed to the distribution of the tin bearing sediments. From the character of the sediments tidal-estuarine processes have had a much larger influence on the distribution of both the tin and the Tertiary sediments than has been recognised previously.

Tertiary Sediments

The Tertiary sediments of North-East Tasmania comprise coarse quartzose grits and gravels, fine and coarse sands, pebble, cobble and boulder grade conglomerates, with beds of silty clay, clay and occasional peat. The coarser sediments almost always have a matrix of finer, usually clay, e.g. material. These sediments are poorly consolidated and are disaggregated fairly easily by the high pressure jet from a monitor pump, however they are firm and compact enough for the features of cross bedding and layering to be plainly recognised.

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The alluvial sediments fill a Tertiary Basin with granitic highlands surrounding most of the basin margins, as depicted by Jennings (1976). Coarse conglomerates and similar high energy sediments are commonly located towards the base of the Tertiary section. This indicates that high capacity traction currents scoured the base of the section and must, at one time, have flowed downhill out of the basin, implying that the depositional system is not an enclosed internal drainage area as supposed by Brown (1978).

It is suggested that the expanse of sediments infilling the basin has resulted from the infilling of slowly rising estuarine conditions which have drowned the ancient valley system. The reasons for this proposal are as follows:

- The sediments are moderately widespread and in many cases cover the interfluvial areas of the ancient valley margins which is difficult to accomplish in an entirely fluvial situation.
- There are moderately high energy traction current sediments throughout the section that can be explained by estuarine conditions, while there are no laminated fine grained sediments towards the base of the Tertiary section which should, if deposited in an internal drainage lake system, show an overall upward coarsening sequence.
- Estuarine black muds are recognised in the Tertiary section towards the lower reaches of the Boobyalla River but there is not a great height difference between this area of established estuarine influence and those further inland.
- Large scale cross bedding observed toward the basal sections of the face at the Pioneer Mine dips in opposite directions, a situation more readily explained by estuarine-tidal action rather than unidirectional fluvial currents.

- Relatively thick beds of silty clay, which must have been deposited from suspension in a standing water body, are more readily explained in an estuarine fill situation.
- Peat, common in the sequence, would readily be deposited in quiet sections of an estuarine fill but not in an alluvial valley fill situation.
- The occurrences of rich winnowed tin layers towards the base of the section are attributed to tidal agitation of the original alluvial valley fill sediments.

A model summarising these aspects of Tertiary sediment deposition is shown as Drawing No. 136/24.

Tin Occurrence

The alluvial cassiterite of North-East Tasmania has been eroded from surrounding source rocks and concentrated mechanically by traction currents sporadically throughout the Tertiary sediments. Small amounts of eluvial tin have been won from surface concentrations immediately overlying granite bedrock, but by far the richest concentrations of tin have been won from the 'deep leads' which enter the Tertiary basin.

The leads were first located by prospectors where shallow rich cassiterite deposits occurred in the alluvial valley fill. The leads were mined down slope beneath increasing thicknesses of overburden, and appear to continue as roughly linear entities, for at least some distance into the Tertiary basin. It is common to see fairly pure cassiterite grains concentrated into 3 mm bands. Some cassiterite grains also occur disseminated throughout coarser sediments.

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Apart from some irregular surface concentrations, the tin is concentrated almost exclusively at the base of the section. This is attributed to tidal agitation of the alluvial valley fill material and winnowing of the cassiterite into the thin rich basal layers. Thus the sediment laden streams carrying the cassiterite are envisaged as entering the encroaching estuary; heavy cassiterite and coarse fractions are winnowed out and the lighter and finer sediment fractions are transported further. This model, depicted in Drawing No. 136/24, explains the basal tin concentrations, the size distributions of sediment and the relatively barren middle sections of the Tertiary. Truly fluvial alluvial concentrations unmodified by estuarine conditions should show moderate tin values sporadically throughout the entire vertical section. Those of Malaysia apparently fall into this entirely fluvial category.

Drilling carried out at Clarence confirms to some extent grades indicated by earlier drilling of an unknown date, however the grades are not considered sufficiently attractive to warrant further exploration by drilling at the present time.

At Pioneer, drilling began on the 4th April, 1978. The location of drill holes in the vicinity of the present Pioneer Mine Workings is shown as Drawing No. 136/22. Detailed drill logs for holes K 27 to K 37 are attached in Appendix 2. These holes represent a total of 1164.5 feet of drilling. All holes were drilled to granite basement and sampled at 5 feet intervals. Samples were washed on site and panned concentrates forwarded to Fox Laboratory in Sydney for assay. Details of recovered volume, weight of concentrate and concentrate assay are shown on the drill logs. Two preliminary cross-sections are also attached as Drawings No. 136/20 and 136/20a.

Drilling at Pioneer will continue.

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GEOPHYSICS

Down hole electrical logging was attempted in several Cable Tool Percussion drill holes at both Clarence and Pioneer.

Considerable difficulty was encountered in this exercise, as caving occurred in the holes very soon after casing was removed. An attempt was made to introduce polythene pipe into the holes before removing the casing so that down hole logging could be completed by dropping the electrode down the polythene pipe. The action of removing the steel casing often resulted in fracturing the polythene pipe, so this method has been discontinued.

At Clarence, hole C 17 was successfully logged. The down hole electrical data is attached as Drawing No. 136/23.

No interpretation has been made of this data to date. It is hoped that further down hole electrical logs will be made in future and when several have been completed in different localities, a meaningful interpretation of the data will be completed.

012

REFERENCES

Brown, A.V.; 1978, Tertiary lead and basin - Winnaleah Map Sheet. Unpublished Report 1978/7. Department of Mines, Tasmania.

Jennings, D.J., 1976, Alluvial tin deposits of Tasmania. Economic Geology of Australia and Papua New Guinea, 1 Metals, pp. 1053-1054, A.I.M.M., 1976.

APPENDIX 1

Drill Logs, Clarence

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225019

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AREA: Clarence HOLE NO.: C5 COLLAR COORDINATES: SURFACE RL: BASEMENT RL:

Date: 21/2/78 Driller: J. Assistant: H. Sample Washer: R. Geologist: A. Cutting shoe diameter: 6.31"
 Bartels Gregson Titley Fleming Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn%)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
From	To								
0	8	C1021	1.1	1.73	1.1	1.4	3.1	0.003	Soil, humus.
8	13	22	0.75	1.08	0.75	1.6	9.3	0.017	Wash, white tin pebbles
13	18	23	0.7		0.7	3.5	10.5	0.172	Wash Tin seen in cradle
18	23	24	1.1		1.08	7.7	17.4	0.106	Wash.
23	28	25	0.9		0.9	1.8	19.8	0.034	"
28	33	26	1.1		1.08	3.1	3.0	0.195	" trace tin in cradle
33	38	27	1.2		1.08	1.6	6.6	0.008	" "
38	42	C1028	1.1	0.86	0.98	2.9	3.5	0.009	Weathered granite.

Drillers reported basement at 42 ft.
 Interval of tin bearing wash ft.
 Overall value from surface to ft. lb SnO₂ / yard (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225021

EA: Clarence

HOLE NO.: C7

COLLAR COORDINATES:

SURFACE RL:

BASEMENT RL: 0^{0.30}

24/2/77

Driller: Watson Assistant: Gregson Sample Washer: Hitley Geologist: Fleming

Cutting shoe diameter: 6.31"

Casing diameter: 5"

Interval Feet	Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval		Description of Sample
							Sn ₂ O ₃ lbs/cuyd		
0 - 5	C1034	1.0	1.28	1.98	3.8	6.9	7.704		Clay muds.
5 - 10	35	3.8		1.0	8.8	3.9	1.333		finer clay fine sand.
10 - 15	36	1.9		1.9	13.1	41.5	3.515		sh., mainly quartz.
15 - 20	37	1.88		1.88	2.4	28.0	3.133		
20 - 25	38	3.5		3.5	2.5	28.4	3.124		
25 - 30	39	1.55		1.55	7.8	11.6	3.125		
30 - 35	40	1.85		1.85	1.8	17.9	3.327		trace tin in matrix
35 - 40	41	3.71		1.77	8.3	3.5	3.223		"
40 - 45	42	1.65		1.65	2.5	3.7	3.228		"
45 - 50	43	1.85		1.85	11.16	2.53	3.226		coarse grain wash.
50 - 55	44	1.75		1.75	5.22	2.56	3.194		"
55 - 60	45	3.85		1.85	6.46	1.21	3.228		"
60 - 65	46	1.75		1.75	73.30	1.18	3.215		coarse grain wash, pyrite
65 - 70	47	1.65		1.65	174.85	1.13	3.216		"
70 - 75	48	1.3	1.78	1.3	27.58	1.94	3.022		"
75 - 76	C1049	1.25	1.22	1.22					Decomposed granite, pyrite.

Drillers reported basement at 70-37 ft.

Interval of tin bearing wash 70-37 ft. 1.21 16 SnO₂ / yd.

(Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225022

REA: Clarence HOLE NO.: CB COLLAR COORDINATES: SURFACE RL.: BASEMENT RL. 20

Driller: A. Watson Assistant: T. Gregson Sample Washer: R. Titley Geologist: A. Fleming Cutting shoe diameter: 6.31"
 4-3-78 Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn)	Value over Interval (SnO ₂ lbs/cuyd)	Description of Sample
0	5	C1050	0.5	1.08	0.5	5.7	1.18	0.011	Clay, Humus.
5	10	51	1.0		1.0	23.65	1.12	0.023	Silt, fine sand.
10	15	52	0.85		0.85	57.70	14.41	0.832	Med sized wash, tin in cradle.
15	20	53	0.55		0.55	67.00	17.57	1.821	" " " " "
20	25	54	0.65		0.65	14.3	16.13	0.302	Grift, coarse sand, traces, small wash.
25	30	55	0.65		0.65	13.05	4.07	0.070	Coarse wash, sand, trace tin.
30	35	56	0.65		0.65	7.5	5.35	0.053	Coarse Sand.
35	40	57	0.65		0.65	1.40	13.52	0.025	"
40	45	58	0.75		0.75	5.05	0.77	0.004	Wash, coarse sand, pyrite.
45	50	59	1.0		1.0	21.50	0.18	0.003	Wash, coarse sand, py.
50	55	60	0.65	√	0.65	92.40	0.18	0.022	Wash, coarse sand, py.
55	57	C1061	0.20	0.43	0.2	28.50	0.16	0.019	Decomposed granite, abundant detrital py, no py in granite pebbles however.

Drillers reported basement at 53 ft.
 Interval of tin bearing wash 10-25 ft. @ 0.99 lb SnO₂/yd³
 Overall value from surface to 57 ft. 0.27 lb SnO₂ /yard (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225023

REA: clarence

HOLE NO.: C 9

COLLAR COORDINATES:

SURFACE RL:

BASEMENT RL: 0230

Date: 6-3-78 Driller: A. Watson Assistant: T. Greegan Sample Washer: R. Titley Geologist: A. Fleming Cutting shoe diameter: 6.31"
 Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn % Sn)	Value over Interval		Description of Sample
From	To							Sn ₂ O ₃ lbs/cuyd		
0	5	C1062	0.4	1.08	0.4	3.31	0.75	0.004		Soil, humus, fine sandy clay.
5	10	63	0.6		0.6	1.59	2.36	0.005		Black silt, fine sand.
10	15	64	Sample would not settle		1.08	3.43	12.46	0.033		Wash, coarse sand, schist, py
15	20	65	0.7		0.7	41.70	17.65	0.895		Coarse wash & sand, tin seen.
20	25	66	0.7		0.7	6.43	14.35	0.112		" " trace tin & py.
25	30	67	0.6		0.6	1.25	1.68	0.003		" "
30	35	68	0.55		0.55	5.46	1.76	0.015		" "
35	40	69	0.5		0.5	0.63	1.58	0.002		" " pyrite.
40	45	70	0.65		0.65	4.63	0.91	0.006		" " trace py.
45	50	71	0.5		0.5	20.80	0.18	0.006		" " abundant py.
50	55	72	1.0	∇	1.0	17.49	0.51	0.008		Wash, decomposed granite, py

Drillers reported basement at 53.5 - ft.

Interval of tin bearing wash 15-25 - ft. @ 0.50 lb SnO₂/yard.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

REA: clarence HOLE NO.: c 10 COLLAR COORDINATES:

SURFACE RL:

225024 ⁰²⁰
BASEMENT RL:

Date: 9-3-78 Driller: A. Watson Assistant: H. Gregson Sample Washer: R. Titley Geologist: A. Fleming Cutting shoe diameter: 6.31"
Gasing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn % Sn)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
0	5	C1073	0.7	1.08	0.7	2.78	0.46	0.002	Silt, humus, coarse & fine sand.
5	10	74	0.9		0.9	5.80	22.36	0.123	Coarse & fine sand, py.
10	15	75	0.75		0.75	2.62	4.14	0.012	" " " "
15	20	76	0.7		0.7	3.54	8.63	0.037	Coarse, wash, py.
20	25	77	0.6		0.6	2.74	3.82	0.015	" " " " No tin observed.
25	30	78	0.4		0.4	2.16	1.55	0.007	" " " "
30	35	79	1.1		1.08	8.02	0.40	0.003	Coarse sand, wash, py, ^{no. 11} obs.
35	40	80	0.9		0.9	7.33	0.27	0.002	"
40	45	81	0.8		0.8	16.72	0.37	0.007	Wash, coarse sand, ab, py, n.t.o.
45	50	82	0.55	✓	0.55	36.77	0.14	0.008	"
50	55	83	0.75	1.08	0.75	21.17	0.14	0.003	Wash, coarse sand, decomp, granite, abundant py in panned concentrate.

Drillers reported basement at 55 ft.

Interval of tin bearing wash ft.

Overall value from surface to ft. lb SnO₂ / yard (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225025

AREA: Clarence HOLE NO.: C 11 COLLAR COORDINATES:

SURFACE R.L.: BASEMENT R.L. ^{0.2}

Date: 11-3-78

Driller: Watson

Assistant: H. Gregson

Sample Washer: R. Titley

Geologist: A. Fleming

Cutting shoe diameter: 6 5/16"

Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (SnO ₂)	Value over Interval SnO ₂ lbs/cuyd	Description of Sample
From	To								
3	5	C1994	.73	1.38	0.7	6.994	7.18	7.772	Clay, humus, coarse, fine
5	10	85	.75		7.75	13.8	5.30	7.761	fine sand no tin in conc.
10	15	86	.55		7.55	7.33	11.7	3.144	fine sand med, wash trace tin
15	20	87	.63		7.63	5.761	8.12	3.766	sand & wash trace tin.
20	25	88	.59		0.59	11.71	1.04	3.319	no tin in conc.
25	30	89	.63		7.63	4.24	4.55	0.027	red wash trace tin fine p
30	35	90	.43		7.43	8.17	1.65	3.029	" " fine py
35	40	91	.70		3.70	2.19	1.65	7.374	" " trace py no tin.
40	45	92	.53		7.53	7.62	7.22	3.703	" " " " "
45	50	93	.65		7.65	5.79	3.24	3.312	" " " " "
50	55	94	1.10		1.10	16.94	3.22	3.703	" abundant py.
55	57	C1995	1.43	1.28	3.43	61.6	3.16	7.323	

Drillers reported basement at 57 ft.

Interval of tin bearing wash --- ft.

Overall value from surface to --- ft. lb SnO₂ /yard (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225026
BASEMENT R.L.: 025

REA: Clarence HOLE NO.: C-12 COLLAR COORDINATES: SURFACE R.L.:

Date: 16/3/78 Driller: Watson Assistant: Gregson Sample Washer: R. Titley Geologist: Fleming Cutting shoe diameter: 6.3" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn %)	Value over Interval (SnO ₂ lbs/cuyd)	Description of Sample
0	5	C1396	0.53	1.08	0.5	5.32	2.75	0.019	Clay, humus fine sand fine pyrite.
5	10	97	0.50		0.8	4.5	3.16	1.015	Clay, humus, trace tin? chert pyrite.
10	15	98	0.75		0.75	6.1	0.29	0.002	Clay medium sand, fine sand trace tin pyrite.
15	20	99	0.55		0.55	4.1	1.99	0.002	Medium wash, coarse sand, trace tin? pyrite.
20	25	C1100	0.53		0.5	5.72	1.13	0.011	Medium wash, coarse sand, minor pyrite, trace tin?
25	30	C1201	0.40		0.4	6.75	0.30	0.004	Medium wash, coarse wash, minor pyrite.
30	35	02	0.45		0.45	3.75	1.93	0.005	Large wash up to 2" diameter coarse sand, trace pyrite.
35	40	03	0.40		0.4	6.3	1.85	0.002	Large wash, coarse sand, Pyrite present.
40	45	04	0.73		0.7	3.51	0.85	0.004	Medium wash, coarse sand, trace Tin???
45	50	C1205	0.83	1.78	0.8	19.56	0.36	0.007	Large wash, decomposed granite, coarse sand, abundant Pyrite.

Drillers reported basement at ----- ft.

Interval of tin bearing wash ----- ft.

Overall value from surface to ----- ft. ----- lb SnO₂ /yard (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225027

AREA: Clarence HOLE NO.: C-13 COLLAR COORDINATES: SURFACE RL: BASEMENT RL: 028

Driller: Watson Assistant: G. Summers Sample Washer: R. Titley Geologist: M. Martin Fleming: A. Summers Cutting shoe diameter: _____ Casing diameter: _____

Interval Feet		Sample No.	Recovered Volume (ft³)	Theoretical Volume (ft³)	Corrected Volume (ft³)	Weight Concentration (gms)	Concentration Assay (Sn % Sn)	Value over Interval (SnO₂ lbs/cuyd)	Description of Sample
0	5	1206	.40	1.08	0.4	0.705	1.36	0.002	Clay humus sand, pyrite.
5	10	1207	.80		0.8	1.732	4.95	0.009	Clay sand trace pyrite, trace tin.
10	15	1208	.55		0.55	2.986	24.20	0.112	Med. wash fine sand fug, trace tin, pyrite.
15	20	1209	1.0		1.0	5.47	8.95	0.042	Med wash coarse sand, tin present, pyrite.
20	25	1210	.75		0.75	3.725	4.87	0.021	" "
25	30	1211	.55		0.55	5.87	3.24	0.029	Large wash, coarse sand, pyrite, trace tin?
30	35	1212	.70		0.70	3.075	5.91	0.022	" "
35	40	1213	.50		0.50	3.5	2.56	0.015	" "
40	45	1214	.40		0.40	4.96	1.14	0.012	" "
45	50	1215	.55		0.55	1.77	6.44	0.011	Coarse-fine sand pyrite, med wash trace V.F. Tin.
50	55	1216	.45		0.45	1.0	10.21	0.019	Coarse sand, med wash, pyrite
55	60	1217	.50		0.50	7.76	7.78	0.010	Large to med wash, coarse sand all pyrite.
60	65	1218	.55		0.55	15.79	3.30	0.037	White clay med wash, pyrite in abundance.
65	70	1219	.70	1.08	0.70	13.73	0.40	0.006	Clay, large wash, decomposed granite with wash contained pyrite.
70	75	1220	.55	1.086	0.55	19.63	0.23	0.007	Med wash decomposed granite no tin all pyrite

Drillers reported basement at 85 ft.
 Interval of tin bearing wash ft.
 Overall value from surface to ft. lb SnO₂ /yard (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

AREA: Clarence HOLE NO.: C-14 COLLAR COORDINATES:

SURFACE R.L.:

225029
BASEMENT R.L.: 8

Date: _____ Driller: A. Watson Assistant: G. Summers Sample Washer: I. Summers Geologist: N.G.P. Cutting shoe diameter: 6.31" Casing diameter: _____

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval		Description of Sample
From	To							SnO ₂ lbs/cuyd		
0	5	1223	.55	1.086	0.55	0.445	1.76	0.001	Mud, humus sand trace pyrite, no tin.	
5	10	24	.35		0.35	0.48	2.06	0.302	Mud, humus sand, pyrite trace tin.	
10	15	25	.55		0.55	9.67	28.84	0.432	Coarse sand-wash tin, trace pyrite.	
15	20	26	.60		0.60	13.55	33.21	0.497	Coarse sand-wash tin-trace pyrite.	
20	25	27	.90		0.90	3.255	32.38	0.099	Coarse sand very little wash, tin-trace pyrite.	
25	30	28	.85		0.85	1.02	19.18	0.020	Coarse sand, trace tin, pyrite.	
30	35	29	.90		0.90	1.53	18.12	0.026	Coarse sand-clay-wash trace tin - pyrite.	
35	40	30	.25		0.25	0.47	11.86	0.019	Coarse wash, sand clay, trace tin, pyrite.	
40	45	31	.20		0.20	0.66	8.40	0.024	Coarse wash-sand clay, py.	
45	50	32	.20		0.20	1.48	4.33	0.027	Coarse wash-clay-pyrite.	
50	55	33	.50		0.50	6.39	1.34	0.015	Heavy wash-clay, pyrite.	
55	60	34	.20		0.20	8.58	0.71	0.026	Heavy wash-sand-clay-pyrite.	
60	65	35	.50		0.50	7.51	1.24	0.016	Heavy wash-sand-pyrite.	
65	70	36	.50		0.50	62.99	0.27	0.029	Heavy wash-sand, bands of sandy clay, pyrite.	
70	75	37	.80	V	0.80	71.07	0.27	0.020	Medium Wash - Sandy Clay, Pyrite.	

Drillers reported basement at 86'6" ft.

Interval of tin bearing wash ft.

Overall value from surface to ft.

lb SnO₂ /yard (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG 225031⁰³⁰

AREA: Clarence HOLE NO.: C-15 COLLAR COORDINATES: SURFACE R.L.: BASEMENT R.L.:

Date: Driller: Assistant: Sample Washer: Geologist: Cutting shoe diameter: Casing diameter:

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn)	Value over Interval (Sn ₂ lbs/cu yd)	Description of Sample
0	5	1241	.30	1.086	0.30	0.70	6.86	0.013	Black mud, humus clay trace tin, pyrite.
5	10	42	.50		0.50	2.54	1.57	0.007	Silty Clay - Sand, pyrite.
10	15	43	.20		0.20	9.29	27.36	1.081	Wash-silty clay, tin trace pyrite.
15	20	44	1.00		1.00	23.06	34.39	0.675	Coarse wash-sand tin, pyrite
20	25	1245	.70		0.70	3.64	20.89	0.092	Coarse wash, sand, trace tin pyrite.
25	30	46	.80		0.80	6.23	9.18	0.061	Wash, coarse sand & clay trace tin, pyrite.
30	35	47	.70		0.70	4.69	4.34	0.025	Heavy Wash-clay-sand, pyrite
35	40	48	.30		0.30	2.00	13.93	0.079	Abundant wash, clay, sand, Trace Tin, Pyrite.
40	45	49	.30		0.30	4.59	3.94	0.051	Clay - Wash, trace VF tin, py
45	50	1250	.60		0.60	18.61	0.41	0.011	Coarse wash, silty clay, abundant pyrite.
50	55	51	.50		0.50	20.87	0.34	0.012	Coarse wash-silty clay like decomposed granite, Abund py.
55	60	52				6.75	0.28		Wash, gluey clay, pyrite.
60	65	53	.70		0.70	19.33	0.16	0.004	Clay Wash, Pyrite.
65	70	54	.60		0.60	173.22	0.10	0.025	Coarse sand-wash abundant pyrite.
70	75	1255	.60		0.60	150.58	0.16	0.034	Sand, decomposed granite, py

Drillers reported basement at 78 ft.

Interval of tin bearing wash ft.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225033

032

AREA: Clarence HOLE NO.: C 16 COLLAR COORDINATES: SURFACE R.L.: BASEMENT R.L.:

Date: 9-5-78 Driller: Watson Assistant: Nichols Sample Washer: Summers Geologist: N.G.P. Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn %)	Value over Interval (SnO ₂ lbs/cu yd)	Description of Sample
From	To								
0	5	1257	.40	1.086	0.40	2.052	3.9	0.017	Mud, Humus sand, trace fine tin, & ilmenite.
5	10	58	.50		0.50	2.727	1.8	0.008	Sandy clay mud, trace fine tin, ilmenite.
10	15	59	.30		0.30	3.506	4.1	0.041	Sand, silty clay, trace fine tin, Pyrite.
15	20	1260	.50		0.50	7.130	18.5	0.225	Wash Sand, fine tin, Pyrite.
20	25	61	.60		0.60	6.065	10.1	0.087	Wash - sand fine tin, pyrite.
25	30	62	.40		0.40	3.982	18.7	0.158	Wash-clay fine tin, py, ilm.
30	35	63	.80		0.80	2.000	11.4	0.024	Wash-clay, trace fine tin, py ilm.
35	40	64	.50		0.50	19.207	0.4	0.013	Wash-clay, pyrite.
40	45	1265	1.00		1.00	62.354	0.3	0.013	Wash-clay, pyrite.
45	50	66	.45		0.45	46.440	0.16	0.014	Clay-wash, pyrite.
50	55	67	.70		0.70	89.382	0.12	0.013	Silty - clay - wash, pyrite.
55	60	68	.80		0.80	76.748	0.09	0.007	Wash coarse sand, pyrite.
60	65	69	.70		0.70	36.574	0.12	0.005	Wash decomposed granite, py
65	70	1270	.10	✓	0.10	4.552	0.92	0.036	Decomposed granite, pyrite.

66 - - ft.
 15-30 ft. ● 0.157 lb SnO₂/cu yd.
 0.747 lb SnO₂ (ward (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225034

033

AREA: Clarence HOLE NO.: C 17 COLLAR COORDINATES: SURFACE R.L.: BASEMENT R.L.:

Date: 29-5-78 Driller: Watson Assistant: Nicholls Sample Washer: Summers Geologist: N.G.P. Cutting shoe diameter: 6 5/16" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
0	5	C1283	.70	1.08	0.70	1.305	8.2	0.013	Fine sand, trace small wash Trace fine tin & ilmenite.
5	10	C1284	.40		0.40	2.290	10.2	0.050	Coarse red clayie sand, trace small wash, trace fine tin & ilm.
10	15	C1285	.70		0.70	1.940	4.5	0.011	Coarse & fine sand, trace of wash, trace fine tin & ilm & mox
15	20	C1286	.60		0.60	2.656	1.28	0.005	Coarse & fine sand trace wash No tin, Mox & Ilm.
20	25	C1287	.50		0.50	8.315	20.2	0.256	Coarse sand & white clay, fine tin & ilmenite.
25	30	C1288	.70		0.70	6.494	29.5	0.233	Wash & Coarse sand, tin & ilm.
30	35	C1289	.70		0.70	3.000	20.4	0.074	Coarse sand & small wash & clay, tr fine tin & ilm.
35	40	C1290	.80		0.80	2.272	16.8	0.041	Wash & coarse sand tr fine tin & ilm & py.
40	45	C1291	.90		0.90	4.047	11.3	0.043	Coarse sand & white clay small wash tr v.f.t. & ilm.
45	50	C1292	.60		0.60	1.986	15.0	0.042	Coarse sand & clay, tr very fine tin, & ilm.
50	55	C1293	.70		0.70	7.676	1.13	0.011	Coarse sand & yellow clay, py no tin visible.
55	60	C1294	.70		0.70	3.150	0.10	0.000	Grey Clay small amount sand, py.
60	65	C1295	.75		0.75	?	Lost		Grey cly & Dark brown cly no mineralization visible.
65	70	C1296	not Recorded		-	14.404	0.05	0.00?	Dark brown clay & wash, py/ py.
70	75	Missing C1298	1.14	1.08	1.08	13.203	0.15	0.002	Abundant wash coarse & fine sand, pyrite.

Drillers reported basement at 128 ft
 Interval of tin bearing wash 20-30 ft 60.260 lb SnO₂/cu yd.
 Small amount from surface 120-122 ft 60.245 lb SnO₂/cu yd. (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225035

034

REA: Clarence HOLE NO.: c 17 COLLAR COORDINATES:

SURFACE RL.:

BASEMENT RL.:

Driller: **Watson** Assistant: **Nicholls** Sample Washer: **Summers** Geologist: **S. Moore** Cutting shoe diameter: **6 5/16"**
 Date: **12-6-78** M.G.P. Casing diameter: **6"**

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Value over Interval		Description of Sample
From	To						Assay (Sn)	Sn ₂ lbs/cuyd	
75	80	C1299	1.15?	1.086	1.086	10.408	3.1	0.025	Abundant wash, coarse & fine sand, Pyrite & ilmenite.
80	85	C1300	.90	1.08	0.90	8.702	1.16	0.010	Abundant wash coarse & fine sand, pyrite.
85	90	0101	.70	1.08	0.70	8.890	0.14	0.002	Abundant wash coarse & fine sand, pyrite.
90	95	102	.65		0.65	11.167	1.20	0.018	Green silty clay like decomposed granite abundant wash - Pyrite.
95	100	103	.70		0.70	19.215	0.05	0.001	Green silty clay like decomposed granite, pyrite.
100	105	104	.80		0.80	33.162	0.04	0.001	
105	110	105	.60		0.60	8.618	0.85	0.009	
110	115	106	1.30?		1.086	36.999	0.35	0.010	
115	120	107	.75		0.753	27.340	0.33	0.009	
120	125	108	1.0		1.00	162.900	1.90	0.263	
125	128	109	.25	0.651	0.25	83.200	0.80	0.227	

Drillers reported - basement at 128 ft.
 Interval of tin bearing wash 120-128 ft. @0.245 lb SnO₂/cu yd
 Small value from surface to 128 ft. 0.058 lb SnO₂/cu yd (Cassiterite 70% S.)

035

APPENDIX 2

Drill Logs, Pioneer

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225037

036

AREA : Pioneer HOLE NO. : K -27 COLLAR COORDINATES: SURFACE R.L.: BASEMENT R.L.:

Date: 4/4/78 Driller: Selby Assistant: Sample Washer: Summers Geologist: present Cutting shoe diameter 6.31" Casing diameter 4" 101"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (SnO ₂)	Value over Interval Sn ₂ lbs/cu yd	Description of Sample
from 0	to 5		(.10 x 1.0225)				Sn		
5	10								
10	15	1301	.60	1.086	0.6	2.57	15.40	0.356	Trace tin, pyrite, monozite Clay Sand.
15	20	2	.50		0.5	1.82	21.21	0.366	Sand, trace tin, pyrite monozite.
20	25	3	.70		0.7	3.20	28.76	0.112	Sand, trace tin, pyrite monozite.
25	30	4	.55		0.55	4.77	33.89	0.213	Sand clay, trace tin pyrite, monozite.
30	35	5	.60		0.6	1.94	18.27	0.350	Sand clay, pyrite monozite Iron
35	40	6	.55		0.55	2.75	19.06	0.381	Sand, pyrite monozite, Iron
40	45	7	.85		0.85	10.53	16.61	0.275	Sand, trace tin, pyrite monozite
45	50	8	.65		0.65	8.435	17.44	0.193	trace tin, pyrite, monozite
50	55	9	.65		0.65	6.07	15.51	0.123	Sand clay, pyrite, monozite, iron.
55	60	1310	.50		0.50	5.18	26.87	0.373	Clay sand, pyrite, monozite Iron.
60	65	11	.90		0.9	1.32	20.23	0.035	Clay sand, trace tin pyrite, monozite.
65	70	12	.40		0.4	5.626	23.48	0.281	Some decomposed granite sand, trace tin, pyr, monozite
70	75	1313	.60		0.6	3.84	10.72	0.358	Decomposed granite.

Drillers reported basement at 71 ft. @ 0.16 lb SnO₂/cu yd
 Interval of tin bearing wash 47-60 ft. @ 0.24 lb SnO₂/cu yd.
 Overall value from surface to 75 ft. 147 lb SnO₂ /yard (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225038

037

REA: Pioneer HOLE NO.: K-2B COLLAR COORDINATES:

SURFACE RL.: 79.61 BASEMENT RL.: 53.77

Date: 24/4/78
 Driller: Selby Assistant: Nichols Sample Washer: I. Summers Geologist: N.C.C.
 Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval SnO ₂ lbs/cu.yd	Description of Sample
0	5	1314	.40	1.386	7.40	2.83	27.49	7.123	Sand, clay, monozite, iron
5	10	15	.55		7.55	1.76	15.19	7.744	Sand, clay, monozite, iron
10	15	16	.70		7.70	3.31	14.99	7.755	Sand, clay, monozite, iron
15	20	17	.80		7.80	5.39	16.75	7.791	Sand, clay, monozite, iron
20	25	18	.80		7.80	17.69	21.75	7.429	Sand, tin, monozite, iron.
25	30	19	.50		7.50	5.86	19.78	7.197	Sand, clay, monozite, tin, iron
30	35	1320	.30		7.30	1.63	26.29	7.121	Sand, clay, trace tin, monozite
35	40	21	.50		7.50	1.99	28.61	7.397	Coarse sand, monozite, iron.
40	45	22	.30		7.30	2.89	27.20	7.223	Sand, monozite, pyrite, iron.
45	50	23	.90		7.90	4.14	37.93	7.121	Coarse sand-clay, trace tin pyrite, iron.
50	55	24	.40		7.40	3.49	29.11	7.216	Coarse sand, clay, pyrite, iron
55	60	1325	.80		7.80	7.41	21.55	7.171	Coarse sand, trace tin, pyrite
60	65	26	.50		7.50	3.30	33.66	7.180	Coarse sand, trace tin, pyrite
65	70	27	.80		7.80	38.49	51.42	2.105	Wash, clay-sand, good tin sample.
70	75	28	.80		7.80	15.99	52.88	7.899	Wash, clay-sand-tin-pyrite.

Drillers reported basement at 84'6" - 75 - - ft. 0.12 lb SnO₂/cu.yd
 Interval of tin bearing wash 22-85 - - ft. 0.54 lb SnO₂/ cu.yd.
 Overall value from surface to 85 - - - - ft. 0.429 lb SnO₂ /yard³ (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225040
039

REA: Pioneer

HOLE NO.: K-33

COLLAR COORDINATES:

SURFACE R.L.: 52.34

BASEMENT R.L.: 53.76

Date: 24/4/78

Driller: Selby

Assistant: Nichols

Sample Washer: Summers

Geologist: H.C.P.

Cutting shoe diameter 6.31"

Casing diameter 5"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentrate Assay (Sn)	Value over Interval (SnO ₂ lbs/cu yd)	Description of Sample
0	5	331	.35	1.386	0.35	7.36	13.12	0.174	Sand - small wash Trace tin - pyrite.
5	10	32	.50		0.50	12.13	9.23	0.190	Sand-clay-ilmenite, trace tin pyrite.
10	15	33	.60		0.60	3.68	13.47	0.071	Sand clay, trace tin fine, pyri ilmenite
15	20	34	.60		0.60	3.90	18.16	0.110	Sand-clay, trace tin fine, pyri ilmenite.
20	25	335	.70		0.70	3.90	18.57	0.088	Sand, trace fine tin, pyrite ilmenite.
25	30	36	.50		0.50	2.91	14.43	0.071	Sand, trace fine tin, pyrite ilmenite.
30	35	37	.60		0.60	2.70	12.56	0.045	Coarse sand-clay, trace fine t Pyrite, ilmenite.
35	40	38	.60		0.60	2.53	23.24	0.086	Sand, clay, trace fine tin, pyrite, ilmenite
40	45	39	.60		0.60	3.38	14.4	0.069	Coarse sand, clay, pyrite, ilmenite
45	50	340	.70		0.70	5.55	23.22	0.157	Coarse sand-clay, trace fine t pyrite, ilmenite.
50	55	41	.20		0.20	4.02	15.5	0.265	Sand-clay, pyrite, ilmenite.
55	60	42	.50		0.50	3.09	14.8	0.078	Sand-clay, pyrite, ilmenite
60	65	43	.90		0.90	8.79	15.8	0.131	Fine tin, pyrite, ilmenite.
65	70	44	.70		0.70	4.69	18.7	0.107	Sand-clay, fine tin, pyrite ilmenite.
70	75	345	.50		0.50	8.62	21.7	0.318	Fine tin, pyrite ilmenite zircons

Drillers reported basement at 96 ft.

Interval of tin bearing wash 0-10 ft @ 0.18 lb SnO₂/cu. yd.

Overall value from surface to 07 ft. @ 0.499 lb SnO₂ / yard³ (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225042

REA : Pioneer

HOLE NO. K-31

COLLAR COORDINATES:

SURFACE RL: 86.97

BASEMENT RL: 51.31

041

Date: 4/5/78 Driller: Selby Assistant: Michols Sample Washer: Summers Geologist: N.G.P. Cutting shoe diameter: 6.31" Casing diameter: 5"

Interval Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn)	Value over Interval (SnO ₂ lbs/cu yd)	Description of Sample
0	5	1351	.60	1.086	0.60	5.48	16.2	0.126	Sand clay, trace tin, ilmenite pyrite.
5	10	1352	.55		0.55	5.91	10.0	0.091	Sand-clay, trace fine tin, pyrite, ilmenite.
10	15	53	.20		0.20	2.73	13.9	0.120	Sand-clay, trace fine tin, pyrite, ilmenite.
15	20	54	.55		0.55	5.77	14.4	0.195	Sand, trace fine tin, pyrite ilmenite.
20	25	1355	.55		0.55	7.10	13.0	0.202	Sand, trace fine tin, pyrite ilmenite, pyrite.
25	30	56	.60		0.60	4.644	17.4	0.105	Sand silty-clay, trace fine tin, pyrite, ilmenite.
30	35	57	.35		0.35	9.237	22.7	0.510	Sand silty-clay, trace fine tin, pyrite, ilmenite.
35	40	58	.90		0.90	5.365	34.1	0.173	Sand-clay, trace fine tin, pyrite, ilmenite.
40	45	59	.50		0.50	8.810	30.8	0.200	Fine to coarse sand, white clay, trace tin, ilmenite, monazite.
45	50	1360	.70		0.70	6.742	13.5	0.111	Fine to coarse sand, white to orange clay, trace tin, ilmenite, monazite.
50	55	61	.55		0.55	9.389	13.5	0.190	Fine to coarse sand, trace tin, ilmenite, monazite.
55	60	62	.70		0.70	6.595	11.6	0.093	Fine to coarse sand, trace tin, ilmenite, monazite.
60	65	63	.40		0.40	6.602	5.4	0.076	Fine to coarse sand, white clay, pyrite, monazite, trace tin.
65	70	64	.55		0.55	6.563	5.6	0.075	Fine to coarse sand, white clay, small wash, trace tin, ilmenite, monazite.

Drillers reported basement at 117 ft. @ 0.202 lb SnO₂/cu yd
 Interval of tin bearing wash 80-117 ft. @ 0.608 lb SnO₂/cu yd.
 All value from surface to 117 ft. 0.303 lb SnO₂ /yard³ (Cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL

10
222

AREA: Pioneer. HOLE NO.: K31 COLLAR COORDINATES: SURFACE R.L.: 86.97 BASEMENT R.L.: 51.31

Date: 4-5-78 Driller: G. Selby Assistant: Nichols Sample Washer: I. Summers Geologist: _____
 Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn)	Value over Interval	Description of Sample
70	75	1365	.60		0.60	3.3	18.41	7.79	Fine to coarse sand, white clay, trace tin, ilm, mon.
75	80	1366	.87	1.78	1.8	4.25	14.76	7.06	Fine to coarse sand, white clay, trace tin, ilm, mon.
80	85	1367	.30		0.30	3.16	14.31	7.13	Fine & coarse sand - white clay trace tin, ilm, mon-z.
85	90	1368	.63		0.63	6.61	19.94	7.19	Fine & coarse sand, trace tin, ilmenite, monazite, zircon.
90	95	1369	.60		0.60	9.23	23.37	7.31	Fine & coarse sand - silty clay trace tin, ilm, mon, zircon.
95	100	1370	.60		0.60	8.11	26.90	7.31	Fine & coarse sand - silty clay trace tin, ilm, mon, zircon.
100	105	1371	.50		0.50	4.69	29.72	7.24	Fine & coarse sand, trace tin, ilmenite, monazite, zircons
105	110	1372	.20		0.20	8.69	37.95	1.40	Wash, fine sandy clay, tin, ilm monazite zircon.
110	115	1373	.40		0.40	10.96	14.71	7.33	Coarse sand - wash - sandy clay trace tin, ilm, mon, zircon.
		1374	.20		0.20	13.65	33.55	1.95	{ Coarse sand - decomposed granite fine tin, ilmenite, pyrite.

117 - ft.

117 ft. @ 0.678 lb SnO₂/cu.yd.

0.303 lb SnO₂ / yard³ (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

043

AREA: Pioneer HOLE NO.: K-32 COLLAR COORDINATES: SURFACE R.L. 43.53 BASEMENT R.L. 7.9

Date: Driller Selby Assistant: Sample Washer: Summers Geologist: J. Foger Cutting shoe diameter 5.31" Casing diameter 6"

Section Feet	Sample No.	Recovered Volume (ft³)	Theoretical Volume (ft³)	Corrected Volume (ft³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval (SnO₂ lbs/cu yd)	Description of Sample
From 3 To 5	1375	.60	1.38	1.60	9.1	16.57	7.21	Fine black sand & silt, trace fine tin, ilmenite.
5 10	1376	.50		1.50	2.1	14.62	7.75	Black silty sand, trace fine tin, ilmenite.
10 15	1377	.50		1.50	2.76	1.95	7.94	Fine & coarse sand, trace fine tin, ilmen, monazite.
15 20	1378	.60		1.60	5.56	15.65	7.12	Fine & coarse sand, trace fine tin, ilmen, monazite.
20 25	1379	.30		1.30	3.40	12.72	7.12	Coarse sand & white clay, fine tin, ilmen, monaz, pyrite.
25 30	1380	.20		1.20	3.79	13.69	7.75	Coarse sand-white clay, trace tin, ilm, monaz, pyrite.
30 35	1381	.70		1.70	1.74	13.35	7.75	Coarse sand & white clay, No tin, ilm, monaz, pyrite.
35 40	1382	.60		1.60	7.83	21.99	10.25	Coarse sand & white-orange clay, tin, ilmenite.
40 45	1383	.50		1.50	10.39	17.78	7.14	Coarse sand, white-orange clay, trace tin, ilm, monaz, pyrite.
45 50	1384	.30		1.30	3.68	18.79	7.19	Coarse sand, white-orange clay, trace tin, ilm, mon, pyr.
50 55	1385	.30		1.30	4.46	12.17	7.15	Coarse sand, trace tin, ilm, monaz, pyrite.
55 60	1386	.50		1.50	5.87	19.1	7.19	Coarse sand, trace tin, ilm, monaz, pyrite.
60 65	1387	.10		0.10	5.82	27.15	7.34	Coarse sand, some white clay, trace tin, ilm, monaz, pyrite.
65 70	1388	.50		1.50	2.18	27.97	7.19	Coarse sand, trace tin, ilm, monaz, pyrite.
70 75	1389	.40		1.40	6.13	13.43	7.14	Coarse sand, fine tin, ilm, monaz, pyrite.

Drillers reported basement at 137 ft.
 Interval of tin bearing wash 3-5 ft. @ 3.21 lb SnO₂/cu yd.
 15-25 ft. @ 3.12 lb SnO₂/cu yd.
 35-110 ft. @ 2.57 lb SnO₂/cu yd.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225046
045

AREA: Pioneer HOLE NO.: K-33 COLLAR COORDINATES: SURFACE RL: 84.93 BASEMENT RL: 57.79

Date: 23/5/75 Driller: Selby Assistant: Sample Washer: I. Summers Geologist: J. Roger Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn %)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
0m	to								
0	5	001	.30	1.086	1.30	1.677	12.7	1.057	Silty sand, trace fine tin, monazite.
5	10	002	.30		0.30	15.3426	17.6	1.766	Fine sand, silty clay, unit fine tin, ilmenite, monazite.
10	15	003	.10		0.10	13.7845	17.2	2.318	Fine & coarse sand-silty clay quantity fine tin, ilmen, monaz
15	20	004	.40		0.40	2.0049	18.6	1.195	Fine & coarse sand, trace fine tin, ilmenite, monazite.
20	25	005	.65		0.65	3.6634	12.5	0.060	Fine & coarse sand, silty clay trace tin, ilmenite, monazite.
25	30	006	.60		0.60	2.2432	13.2	1.042	Fine & coarse sand, white clay trace tin, ilmenite, monazite.
30	35	007	.60		0.60	2.9375	16.6	0.369	Fine & coarse sand, white clay Trace fine tin, ilmen, monaz
35	40	008	.60		0.60	3.0685	14.8	1.075	Fine & coarse sand, white clay trace fine tin, ilmen, monaz
40	45	009	.30		0.30	1.4000	15.9	0.264	Fine & coarse sand, white clay, trace fine tin, ilmen, monaz
45	50	010	.50		0.50	1.3777	23.0	0.254	Coarse sand-white clay, ilmenite, monazite.
50	55	011	.55		0.55	2.9840	19.6	1.187	Coarse sand-white clay, ilmenite, monazite.
55	60	012	.70		0.70	6.3620	28.6	1.211	Fine & coarse sand, trace fine tin, ilmenite, monazite.
60	65	013	.90		0.90	7.1056	25.8	0.171	Coarse sand-white clay, fine tin, ilmenite, monazite.
65	70	014	.60		0.60	3.1160	21.3	1.194	Coarse sand-white & orange clay, trace fine tin, ilm, monaz
70	75	015	.30		0.30	4.6510	21.6	1.235	Coarse sand-white & orange clay, trace fine tin, ilmenite monazite

Drillers reported basement at 112 ft. @ 0.963 lb SnO₂/cu yd
 Interval of tin bearing wash 55-112 ft. @ 0.323 lb SnO₂/cu yd.
 with SnO₂ bands (consistently 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG 22504

AREA : Pioneer HOLE NO. : K-33 COLLAR COORDINATES : SURFACE R.L. : 84.93 BASEMENT R.L. : 57

Date 31/5/78 Driller: Selby Assistant: Sample Washer: I. Summers Geologist: J. Roger Cutting shoe diameter : 6.31 Casing diameter : 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentrate Assay (Sn %)	Value over Interval (Sn ₂ O ₃ lbs/cu yd)	Description of Sample
From	To								
75	80	316	.75	1.756	0.75	8.5161	17.2	0.166	Coarse & fine sand, fine tin, ilmenite.
80	85	317	.85		0.85	7.7333	23.3	0.157	coarse and fine sand, fine tin, ilmenite, pyrite.
85	90	318	.30		0.30	5.1820	23.3	0.343	coarse and fine sand, fine tin, ilmenite, monazite
90	95	319	.60		0.60	12.5348	19.4	0.345	coarse & fine sand, a little of clay tin, ilmenite, monazite
95	100	320	.60		0.60	8.511	22.90	0.276	Coarse & fine sand-wash of orange & white clay, tin, ilm, mon, pyrite.
100	105	321	.45		0.45	6.711	29.32	0.333	Coarse sand-heavy wash & clay
105	110	322	.33		0.33	13.402	31.19	1.192	tin, ilmenite, pyrite. Heavy wash, clay, sand, tin, ilmenite, pyrite.
110	112	323	.20	0.404	0.20	7.179	35.8	1.796	Decomposed granite, fine tin, ilmenite.

Drillers reported basement at 112 ft.
 Interval of tin bearing wash 55-112ft @ 0.320 lb SnO₂/cu yd.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225048

REA: Pioneer HOLE NO.: K 34 COLLAR COORDINATES: SURFACE RL: 87.64 BASEMENT RL: 48.92

Date: 6-6-78 Driller: G. Selby Assistant: A. Stevens Sample Washer: S. Moore Geologist: J. Roger Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn%)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
0	5	0024	.60	1.386	0.60	11.492	3.42	0.056	Sand, silt & clay, trace fine tin, black iron.
5	10	025	.30		0.30	10.901	2.16	0.067	White clay & silt, trace fine tin, ilm, monazite.
10	15	026	.30		0.30	3.284	1.59	0.037	White clay & fine sand, trace tin.
15	20	027	.30		0.30	3.166	1.13	0.026	White clay & sand, trace tin.
20	25	028	.40		0.40	8.827	2.53	0.048	Clay, gravel & fine sand, ilm monazite.
25	30	029	.25		0.25	13.504	2.52	0.116	Coarse & fine sand, some clay, fine tin, ilm, monazite.
30	35	030	.70		0.70	12.251	4.26	0.063	Coarse & fine sand, some clay, fine tin, ilm, monazite.
35	40	031	.70		0.70	20.986	3.01	0.077	Coarse & fine sand, some clay, ilmenite, monazite.
40	45	032	.70		0.70	20.415	6.80	0.169	Coarse & fine sand, some clay, fine tin, ilm, monazite.
45	50	033	.45		0.45	22.469	2.53	0.108	Coarse & fine sand, fine tin, ilm, monazite, ilmenite.
50	55	034	.60		0.60	25.032	5.40	0.198	Coarse & fine sand, some clay, trace tin, ilm, monazite.
55	60	035	.30		0.30	7.717	2.30	0.050	Clay, some coarse sand, ilm, monazite, some clay.
60	65	036	.70		0.70	10.197	4.00	0.050	Coarse sand, some clay, monazite, & ilmenite.
65	70	037	.70		0.70	8.174	6.30	0.063	Coarse & fine sand, ilm, monazite.
70	75	038	.70		0.70	6.363	6.50	0.050	Coarse & fine sand, some clay, ilmenite, & monazite.

Drillers reported basement at 133 ft. 0.158 lb SnO₂/cu yd

Interval of tin bearing wash 47-55 ft.

Overall value from surface to 100-133 ft. 3.396 lb SnO₂/cu yd.

Overall value from surface to 100-133 ft. 1 lb SnO₂/yard³ (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225049
048

AREA: Pioneer HOLE NO.: K 34 COLLAR COORDINATES:

SURFACE RL.: 87.64 BASEMENT RL.: 48.72

6-5-78
 Date: 14-6-78
 Driller: G. Selby Assistant: N. Stevens Sample Washer: S. Moore Geologist: J. Roger
 Cutting shoe diameter: 6.31" Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn%)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
75	80	0039	.50	1.086	0.50	9.852	4.88	0.768	Coarse & fine sand, some clay, monazite, ilmenite.
80	85	040	.55		0.55	9.735	7.70	0.105	Fine & coarse sand, mon, ilm.
85	90	041	.50		0.50	8.818	5.00	0.775	Coarse & fine sand, mon, ilm.
90	95	042	.30		0.30	4.472	5.70	0.772	Clay & fine sand, some coarse sand, monaz, ilmenite.
95	100	043	.35		0.35	5.998	3.46	0.050	
100	105	044	.40		0.40	32.151	11.6	0.793	Coarse sand & small wash, ilmenite, monazite.
105	110	045	.60		0.60	27.411	31.2	1.213	
110	115	046	.40		0.40	14.627	21.9	0.837	Coarse sand, big wash, some clay, trace tin, monaz, ilm.
115	120	047	.50		0.50	121.100	14.8	3.750	
120	125	048	.30		0.30	119.910	22.5	12.120	Coarse sand, wash, clay, quantity of tin, monaz, ilmenite.
125	130	049	.40		0.40	38.546	28.8	2.362	

Drillers reported basement at 130 ft.
 Interval of tin bearing wash 100-130 ft. 3.396 lb SnO₂/cu yd.
 Overall value from surface to 130 ft. 0.843 lb SnO₂ /yard³ (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225050
049

AREA: Pioneer

HOLE NO.: K 35

COLLAR COORDINATES:

SURFACE RL: 71.75

BASEMENT RL: 47.62

Date: 23/6/78 Drillers:

Assistant: W.

Sample Washer: S.

Geologist: J. Roger

Cutting shoe diameter: 6.31"

29/1/78

Selby

Stevens

Moore

Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
0m	5	C0050	.50	1.396	1.50	4.72	14.36	1.115	Silty sand-iron frags & monazite.
5	10	C0051	.90		1.90	14.90	16.12	2.215	fine & coarse sand, clay, tin, mon, & iron py.
10	15	C0052	.50		1.50	4.37	4.42	1.032	fine & coarse sand, clay & d.
15	20	C0053	.30		1.30	2.41	3.29	0.322	Clay-fine to coarse sand mon & iron frags.
20	25	C0054	.40		0.40	1.86	1.38	0.005	Clay trace monazite.
25	30	C0055	.25		0.25	1.64	3.13	0.017	Clay trace Monazite.
30	35	C0056	.30		1.30	3.53	1.97	1.010	Coarse & fine sand, mon, & ilmenite.
35	40	C0057	.80		1.80	4.10	5.69	0.025	fine & coarse sand, clay, & ilmenite.
40	45	C0058	.20		0.20	2.99	4.77	0.761	Coarse to fine sand, mon & il.
45	50	C0059	.40		0.40	5.18	9.10	1.170	Coarse to fine sand, mon, il & spinel.
50	55	C0060	.40		0.40	3.65	5.78	0.047	Coarse & fine sand, clay, mon, ilm, & py.
55	60	C0061	.40		0.40	3.51	5.50	0.041	Coarse to fine sand, clay, mon & ilm.
60	65	C0062	.60		0.60	3.24	4.83	0.022	Clay, coarse & fine sand, mon, ilm.
65	70	C0063	.60		0.60	5.72	2.44	0.020	fine sand to clay, ilm, & mon.
70	75	C0064	.30		0.30	3.70	4.10	0.043	Coarse & fine sand, ilm, & mon

Drillers reported basement at

3-141' - 6' ft.

0.164 lb SnO₂/cu yd.

Interval of tin bearing wash

100-141' ft.

0.520 lb SnO₂/cu yd.

0-140'

0.192

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225051
05C

AREA: Pioneer HOLE NO.: K 35 COLLAR COORDINATES: SURFACE RL: 90.75 BASEMENT RL: 47.0

Date: 23/E/78 Driller: Selby Assistant: Stevens Sample Washer: Moore Geologists: Roger Cutting shoe diameter: 6.31"
29/6/78 Casing diameter: 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (Gms)	Concentrate Assay (Sn)	Value over Interval SnO ₂ lbs/cu yd	Description of Sample
From	To								
75	80	C0065	.60	1.786	1.57	3.07	5.88	0.721	Coarse to fine sand, mon, il.
80	85	C0066	.70		1.77	2.81	4.49	0.715	Coarse to fine sand, mon, sil.
85	90	C0067	.60		1.60	3.26	3.93	0.718	Coarse & fine sand, clay, il.
90	95	C0068	.30		1.37	2.52	5.66	0.318	Coarse & fine sand, ilmenite & monazite.
95	100	C0069	.60		0.80	2.97	8.19	0.326	Coarse to fine sand, il, mon.
100	105	C0070	.10		0.10	4.73	7.33	0.295	Coarse & fine sand, clay, il & mon.
105	110	C0071	.60		0.80	8.25	7.68	0.767	Coarse orange gravel, trace tin, il, & mon.
110	115	C0072	.30		0.30	14.48	12.07	0.186	Coarse gravel, small wash, clay, trace tin, mon & ilmenite.
115	120	C0073	.14		0.14	19.19	15.82	1.945	Gravel, clay, small wash, trace tin, il, & mon.
120	125	C0074	.12		0.12	6.77	19.94	0.525	Gravel, clay & big wash, trace tin, mon, & ilmenite.
125	130	C0075	.10		0.10	7.67	7.62	0.497	Coarse & fine sand, clay & wash trace tin, mon, il, py.
130	135	C0076	.90		0.90	17.78	5.3	0.086	As above No pyrite.
135	140	C0077	.60		0.60	28.46	15.9	0.642	Fine & Coarse sand, wash tin, ilmen, & monazite.
140	141'6"	C0078	.30	0.326	0.30	19.84	17.6	0.541	Decomposed granite, fine tin & ilmenite.

Drillers reported basement at 141'6" ft.
Interval of tin bearing wash 100-141 ft. @ 7.164 lb SnO₂/cu yd.
Total tin bearing wash 41' - 7.164 lb SnO₂/cu yd.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225052

051

AREA : Pioneer

HOLE NO. : k 36

COLLAR COORDINATES:

SURFACE RL.:

BASEMENT RL.:

Date: 19-7-78
20-7-78

Driller:

G. Selby

Assistant:

N. Steavens

Sample Washer:

S. Moore

Geologist:

N.G.P.

Cutting shoe diameter : 6.31"

Casing diameter : 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentration (gms)	Concentration Assay (Sn)	Value over Interval Sn ₂ lbs/yard	Description of Sample
From	To								
0	5	00079	.30	1.086	.30	18.585	0.65	0.034	Fine & Coarse sand, mon & ilmenite, trace fine tin.
5	10	00080	.65		.65	8.275	0.88	0.009	Ferricrete & Clay, mon & ilm
10	15	00081	.85		.85	14.513	1.70	0.024	Ferricrete cement & minor clay, mon & ilm.
15	20	00082	.40		.40	14.550	0.49	0.015	Coarse & Fine sand, some ferricrete cement, mon & ilm.
20	25	00083	.80		.80	21.200	1.00	0.022	Fine & coarse sand, mon & ilm
25	30	00084	.50		.50	8.277	2.19	0.031	As above.
30	35	00085	.90		.90	17.943	1.31	0.022	As Above.
35	40	00086	.30		.30	10.473	3.70	0.021	Coarse & fine sand-clay, mon & ilm.
40	45	00087	.90		.90	18.369	0.08	0.001	As Above.
45	50	00088	.55		.55	16.407	0.19	0.005	As Above.
50	55	00089	.60		.60	11.783	0.47	0.008	As Above.
55	60	00090	.65		.65	8.258	0.33	0.003	Coarse & fine sand, clay, pebbles to iron fragments.
60	65	00091	.80		.80	11.769	0.37	0.005	Coarse to fine sand, mon & ilmenite.
65	70	00092	.46		.46	13.156	0.59	0.014	As Above.
70	75	00093	.100		.10	14.711	0.24	0.030	Coarse & fine sand, clay, mon & ilm.

Drillers reported basement at 146 ft. some indication at 145 ft.

Interval of tin bearing wash 125-150 ft. @ 0.248 Lb SnO₂/yard³.

Overall value from surface to 0-150 ft. @ 0.061 lb SnO₂ /yard (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225053

AREA : Pioneer

HOLE NO. : K 36

COLLAR COORDINATES :

SURFACE RL.:

BASEMENT R.L.:

052

Date: 10-7-78
20-7-78

Driller:

G. Selby

Assistant:

N. Steavens

Sample Washer:

S. Moore

Geologist:

Cutting shoe diameter : 6.31"
Casing diameter : 6"

Section Feet		Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn)	Value over Interval SnO ₂ lbs/cuyd	Description of Sample
From	To								
75	80	C0094	.90	1.086	.90	14.4986	0.04	0.001	Clay & Silt, monazite.
80	85	C0095	.70		.70	16.7076	0.14	0.003	Clay Silt, coarse to fine sand, mon, ilm.
85	90	C0096	.65		.65	12.945	0.22	0.004	Coarse sand, clay & silt, monazite.
90	95	C0097	.70		.70	18.510	0.13	0.003	Coarse to fine sand, clay, si monazite.
95	100	C0098	.60		.60	11.840	0.25	0.004	Coarse & fine sand, clay monazite.
100	105	C0099	.85		.85	16.552	0.15	0.002	As Above.
105	110	C0100	.10		.10	10.942	1.28	0.119	As Above with ilmenite.
110	115	C0201	1.2		1.085	14.113	9.90	0.109	Coarse to fine sand, clay, wash, ilmenite, & monazite.
115	120	C0202	1.2		1.085	8.224	4.74	0.029	Clay, wash, sand, silt, trace of tin, ilm, & mon.
120	125	C0203	.20		.20	17.018	5.20	0.067	Sand, clay, wash, ilm, & mon.
125	130	C0204	.10		.10	11.028	2.31	0.217	Sand, silt, clay, wash, trace of fine tin, ilm, & mon.
130	135	C0205	1.2		1.085	16.389	4.94	0.063	Coarse sand, white clay, & wash, trace of fine tin, ilm/
135	140	C0206	1.35		1.085	33.435	9.56	0.251	Coarse orange sand, white cl ^{mon} wash, trace of tin, ilm & mon
140	145	C0207	1.1	Y	1.085	24.669	19.6	0.379	As Above.
145	150	C0208	2.1	granite in	1.085	23.421	18.0	0.331	Coarse sand, silt, clay, decomposed granite, trace t

Drillers reported basement at 146 ft. some indication at 145 ft. ilm, py, mona.

Interval of tin bearing wash 125-150 ft. @ 0.248 Lb SnO₂/ yard.

Overall value from surface to 0-150 ft. @ 0.061 lb SnO₂ /yard (cassiterite 70% Sn)

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225054

REA: Pioneer HOLE NO.: K 37 COLLAR COORDINATES: SURFACE R.L.: BASEMENT R.L.: ⁰⁵³

Date: 1-6-78 Driller: G. Selby Assistant: N. Stevens Sample Washer: S. Moore Geologist: L. McDonald Cutting shoe diameter: 6.31" Casing diameter: 6"

Interval Feet	Sample No.	Recovered Volume (ft³)	Theoretical Volume (ft³)	Corrected Volume (ft³)	Weight Concentrate (gms)	Concentration Assay (Sn)	Value over Interval		Description of Sample
							SnO₂ lbs/cu yd		
75 - 80	CJ224	1.1	1.386	1.386	12.950	3.52	3.305		Coarse & fine sand, ilm, monazite.
80 - 85	CJ225	1.4		1.386	6.937	7.77	3.374		As above.
85 - 90	CJ226	1.2		1.386	12.407	1.97	1.339		Coarse & fine sand, ilm & mon.
90 - 95	CJ227	1.1		1.386	11.679	3.42	3.104		Clay, silt, fine sand, mon, ilm & ilmenite.
95 - 100	CJ228	1.1		1.386	9.502	3.15	3.301		Coarse & fine sand, clay, silt, monazite.
100 - 105	CJ229	1.3		1.386	9.325	1.76	3.713		Coarse & fine sand, clay, silt & ilmenite.
105 - 110	CJ230	.2		.2	6.943	3.45	3.713		Fine & coarse sand, clay mon & ilmenite.
110 - 115	CJ231	.5		.5	13.658	7.61	3.314		Fine sand, coarse yellow gravel, mon & ilmenite.
115 - 120	CJ232	.9		.9	19.655	8.74	3.149		Coarse & fine sand wash, ilm, mon.
120 - 125	CJ233	1.4		1.386	9.837	9.79	3.777		As above with 'big' wash.
125 - 130	CJ234	1.2		1.386	43.153	7.63	3.243		As above with pyrite.
130 - 135	CJ235	1.3		1.386	31.321	27.67	3.576		Coarse & fine sand, clay wash, ilm & mon.
135 - 140	CJ236	1.4		1.386	25.267	23.37	3.461		Coarse & fine sand, brown clay, ilm & mon, py.
140 - 145	CJ237	1.4		1.386	20.374	15.27	3.242		Coarse & fine sand, clay see noted granite, ilm, mon, py.
145 - 147	CJ238	.7	3.434	.434	4.929	8.23	(50.179)		Coarse & fine sand, decomposed granite, ilm, mon, py.

Drillers reported basement at 146 ft.
 Interval of tin bearing wash 125-145 ft. (7.362 lb Sn O2/y rds 3)
 Overall value from surface to 0-145 ft. (3.77 lb SnO₂ /yard (cassiterite 70% Sn) (omitting) CJ238.

AMDEX MINING LIMITED - PERCUSSION DRILL LOG

225055

EA: Pioneer

HOLE NO.: K 37 COLLAR COORDINATES:

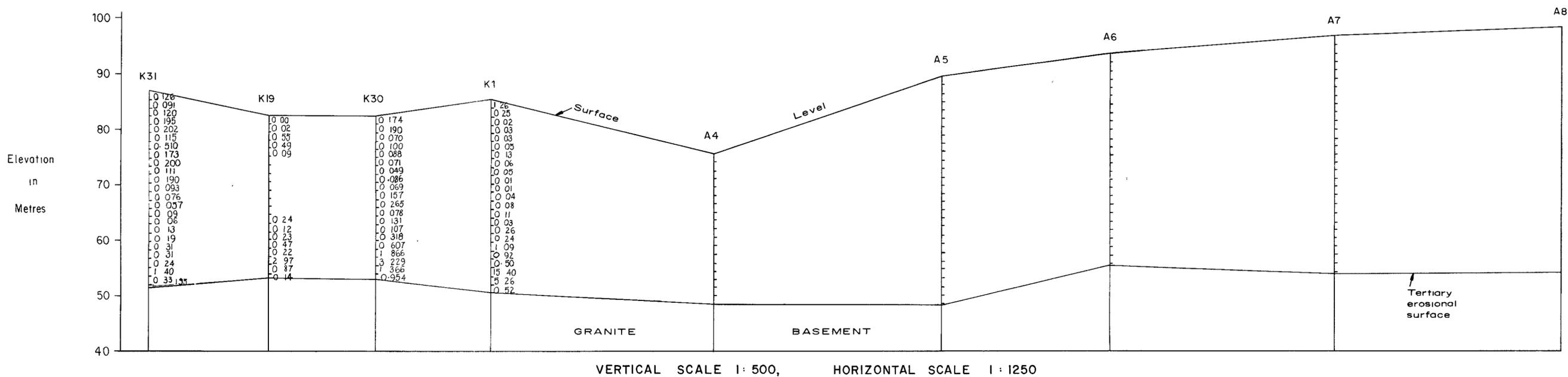
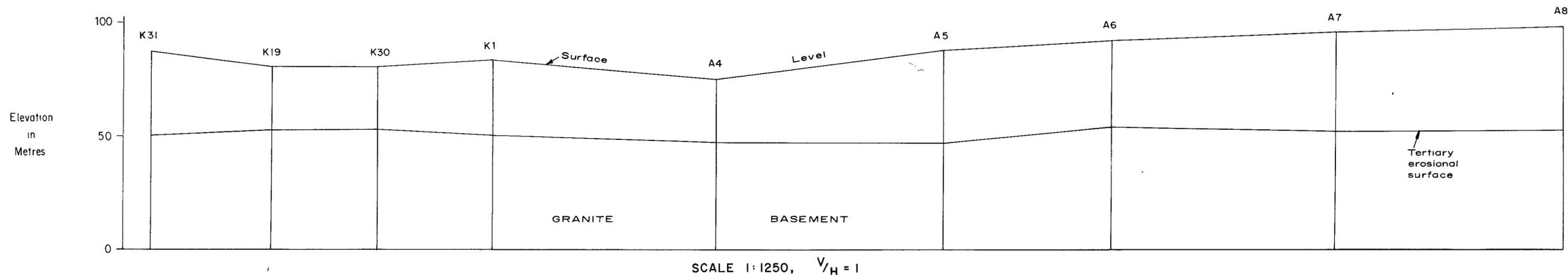
SURFACE R.L.:

BASEMENT R.L.: 054

Driller: G. Selby Assistant: N. Stevens Sample Washer: S. Moore Geologist: L. McDonald Cutting shoe diameter: 6.3" Casing diameter: 6"

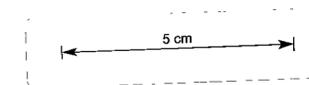
Interval Feet	Sample No.	Recovered Volume (ft ³)	Theoretical Volume (ft ³)	Corrected Volume (ft ³)	Weight Concentrate (gms)	Concentration Assay (Sn)	Value over Interval		Description of Sample
							SnO ₂ lbs/cuyd		
5 to 80	C0224	1.1	1.386	1.786	12.953	0.52	0.005		Coarse & fine sand, ilm, & monzite.
80 to 85	C0225	1.4		1.786	6.937	1.77	0.004		as above.
85 to 90	C0226	1.2		1.386	12.407	1.97	0.009		Coarse & fine sand, ilm & monzite.
90 to 95	C0227	1.1		1.386	11.679	0.42	0.004		Clay, silt, fine sand, monzite & ilmenite.
95 to 100	C0228	1.1		1.386	9.502	0.15	0.001		Coarse & fine sand, clay, silt, monzite.
100 to 105	C0229	1.3		1.386	9.321	1.76	0.013		Coarse & fine sand, clay, silt & ilmenite.
105 to 110	C0230	.2		.2	6.943	0.45	0.013		Fine & coarse sand, clay monzite & ilmenite.
110 to 115	C0231	.5		.5	15.658	7.61	0.014		Fine sand, coarse yellow gravel, monzite & ilmenite.
115 to 120	C0232	.9		.9	19.655	8.74	0.149		Coarse & fine sand wash, ilm & monzite.
120 to 125	C0233	1.4		1.386	9.837	9.19	0.077		as above with 'pig' wash.
125 to 130	C0234	1.2		1.386	43.153	7.63	0.243		as above with pyrite.
130 to 135	C0235	1.3		1.386	31.321	27.67	0.576		Coarse & fine sand, clay wash, ilm & monzite.
135 to 140	C0236	1.4		1.386	25.267	23.37	0.461		Coarse & fine sand, brown clay, ilm & monzite, py.
140 to 145	C0237	1.4		1.386	20.374	15.20	0.242		Coarse & fine sand, clay see noted granite, ilm, mon, py.
145 to 147	C0238	.7	0.434	.434	4.920	8.23	(50.77)		Coarse & fine sand, decomposed granite, ilm, mon, py.

Intervals reported basement at 146 ft. Interval of tin bearing wash 125-145 ft. Total value from surface to 145 ft. 0.362 lb Sn O₂/yard 0.77 lb SnO₂ /yard (cassiterite 70% Sn) (omitting) C0238.

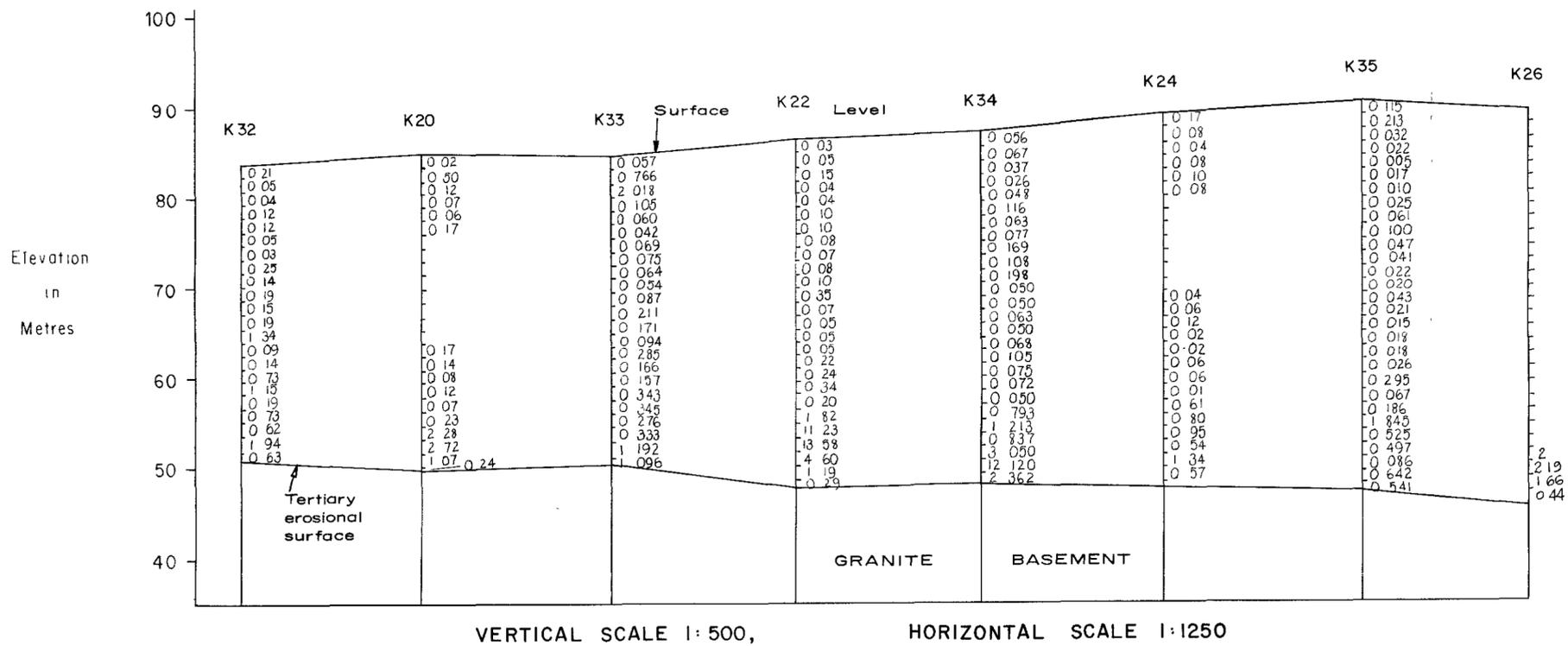
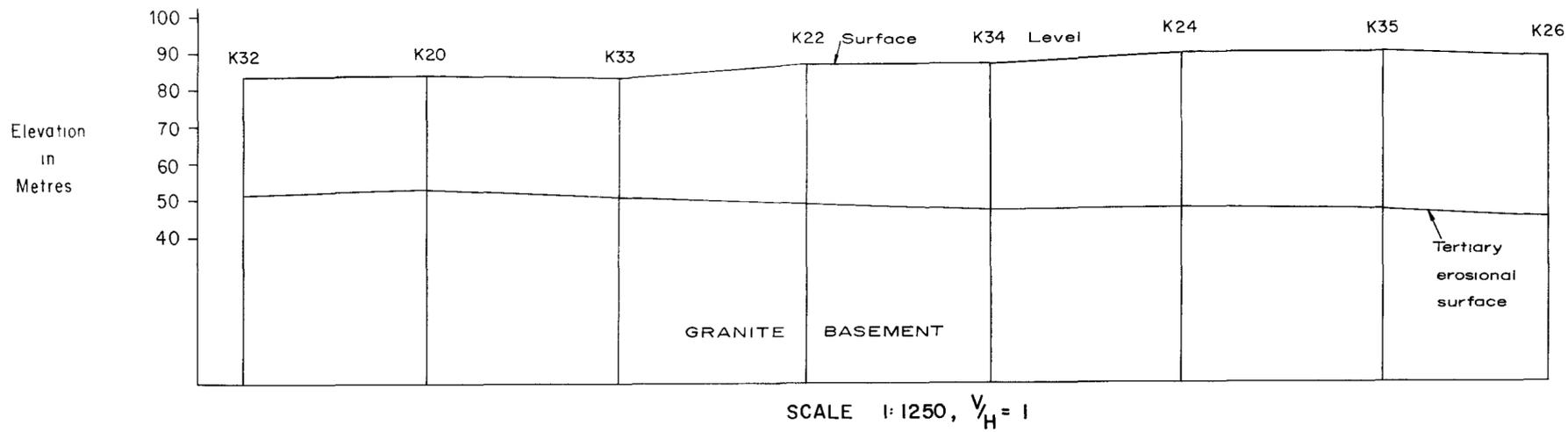


K Kibuka drilling
 A Austral Malay drilling

K 31
 0 115
 0 123
 0 31
 0 14
 Cable tool percussion drill
 hole 31, assay values in
 lbs SnO₂ / yd³
 (sample interval 5ft)



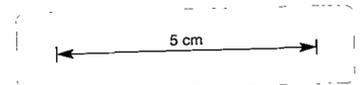
AMDEX MINING LIMITED	
PIONEER MINE, TAS.	
CROSS SECTION	
Data by L McDonald	Dwg No 136/20
Date August, 1978	Drawn by: B G



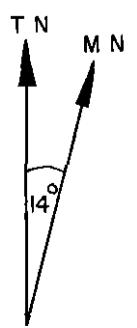
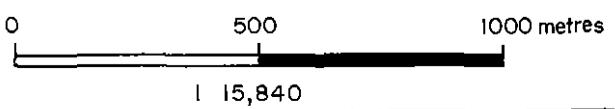
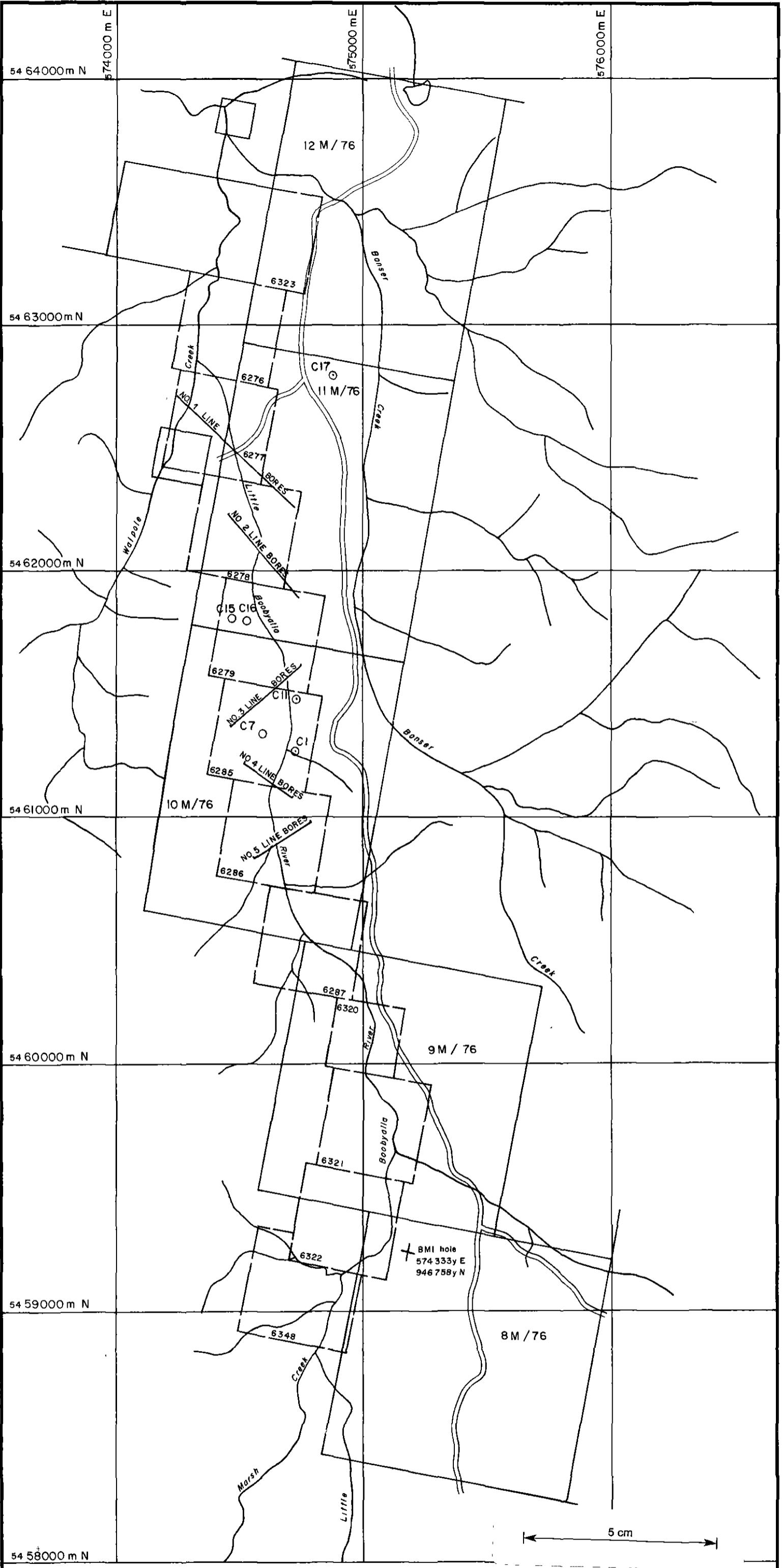
Note K35 has been projected to section line

K 32
 0 21
 0 05
 0 04
 0 12
 0 12
 0 05
 0 03
 0 25
 0 14
 0 19
 0 15
 0 19
 1 34
 0 09
 0 14
 0 73
 1 15
 0 19
 0 73
 0 62
 1 94
 0 63

Cable tool percussion drill hole 32, assay values in lbs SnO₂/yd³ (sample interval 5ft)



AMDEX MINING LIMITED	
PIONEER MINE, TAS.	
CROSS SECTION	
Data by: L. McDonald.	Dwg No 136/20a
Date: August, 1978	Drawn by: B.G.

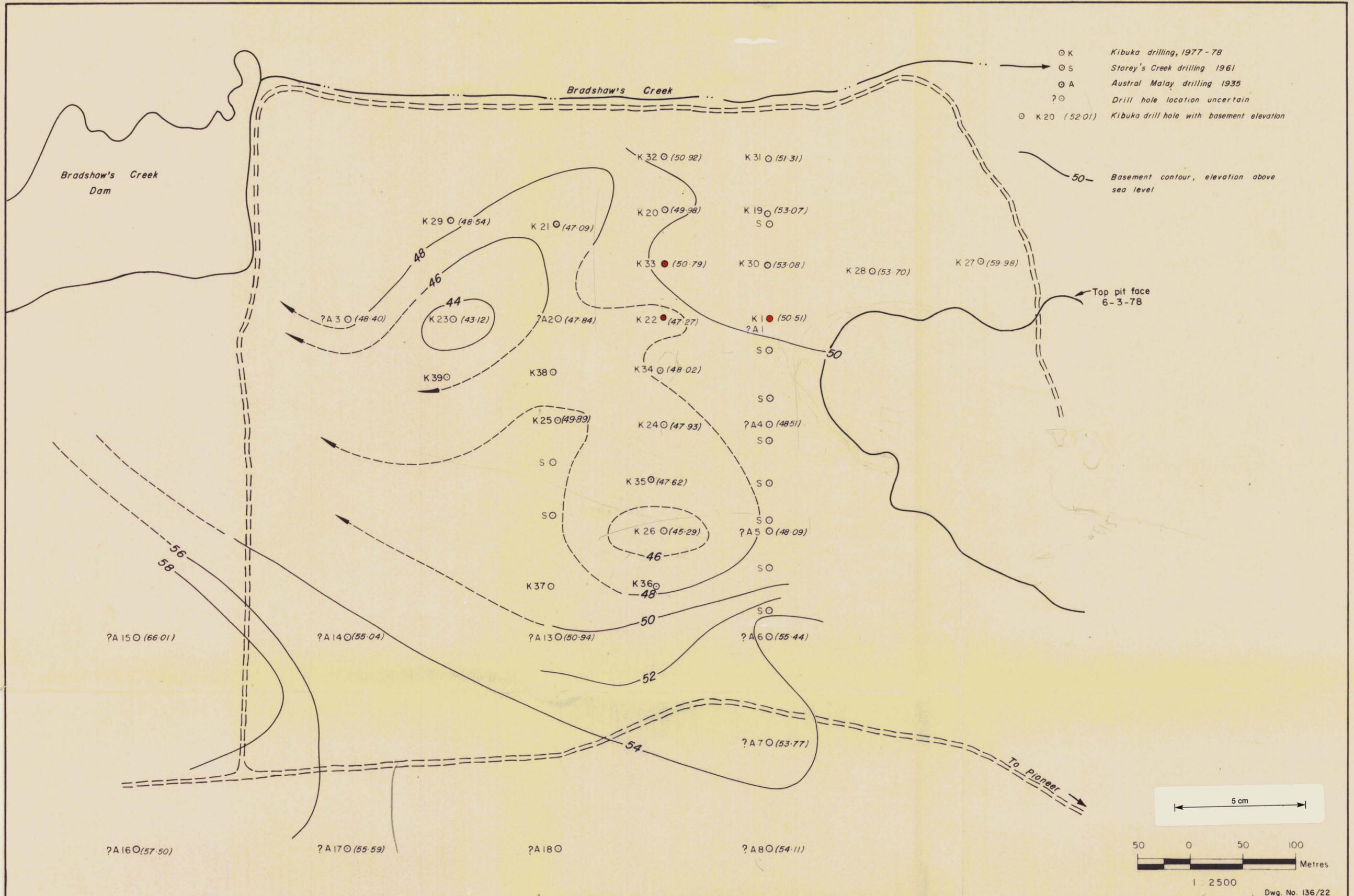


Dwg No 136/21

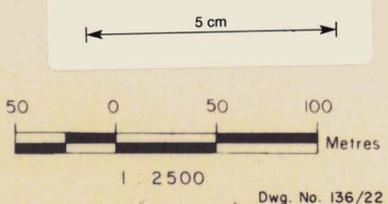
AMDEX MINING LIMITED
CLARENCE, TASMANIA
DRILL HOLE LOCATION
PLAN

DATA BY A Fleming	SCALE 1 15,840
DATE March, 1978	DRAWN BY C C

79-1301



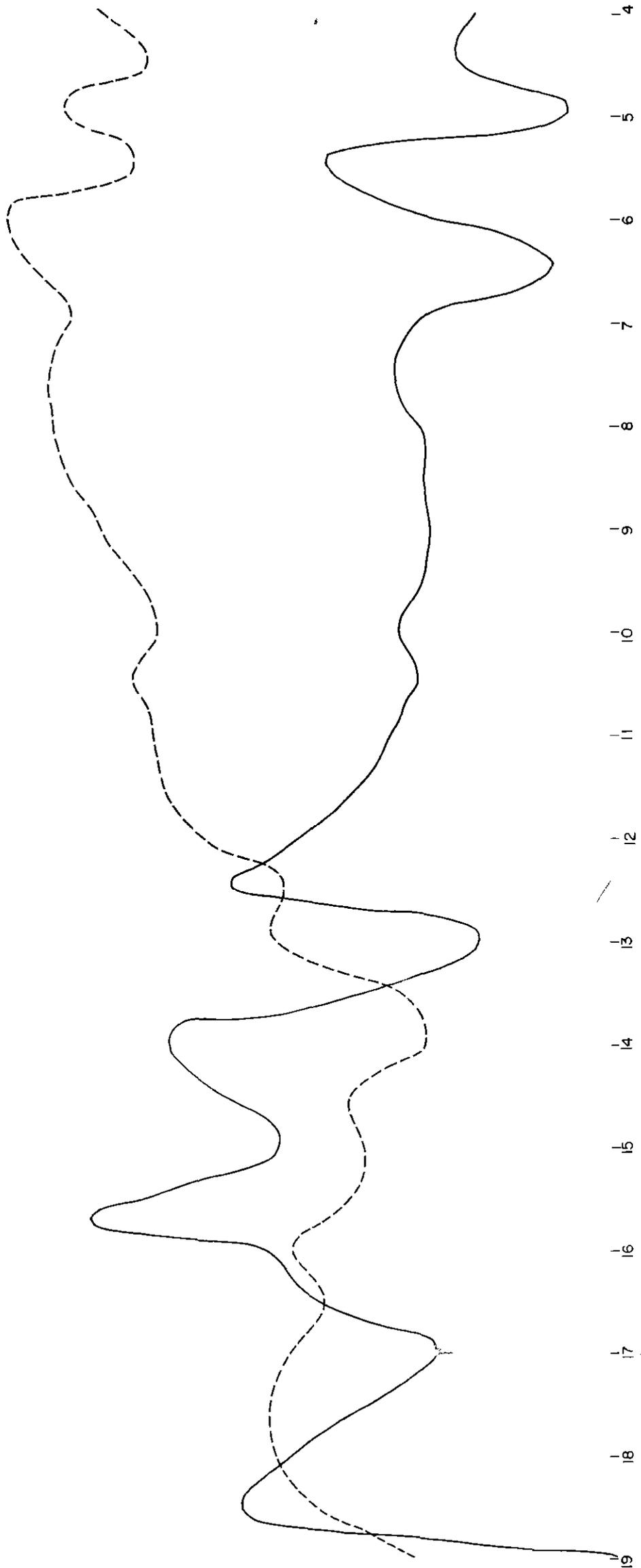
• Holes K1, K20, K33 used to orientate Auger Holes on subsequent plans of "Relative Positions" (136/25) and "Surface Tin" at Pioneer. J.



AMDEX MINING LIMITED	
PIONEER MINE, TASMANIA	
DRILL HOLE LOCATION	
DATA BY L. M ^c DONALD	DATE JULY, 1978
DRAWN BY C.C.	SCALE 1 : 2500

5 cm

Pole dipole survey
 $a = 0.5 \text{ m}$



DEPTH (metres)

AMDEX MINING LIMITED	
CLARENCE, TASMANIA	
DOWN HOLE ELECTRICAL	
LOGGING DH C16	
DATA BY SCINTREX	Dwg No 136/23
DATE May, 1978	DRAWN BY B G

1000 —
900 —
800 —
700 —
600 —
500 —
400 —
300 —
200 —
100 —
0 —

20 —
16 —
12 —
8 —
4 —
0 —

CHARGEABILITY (ms)

----- RESISTIVITY ($\Omega \text{ m}$)

186679-1301

225060

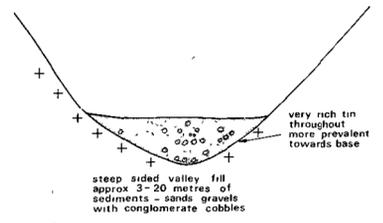
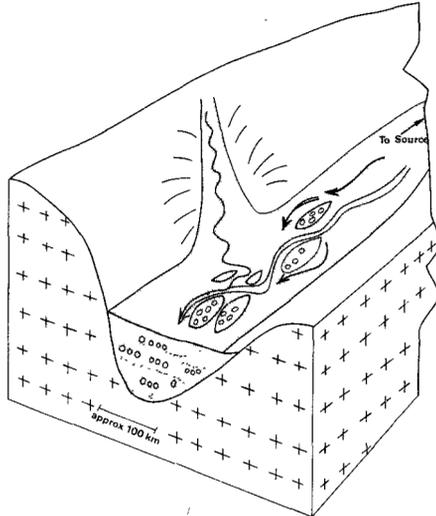
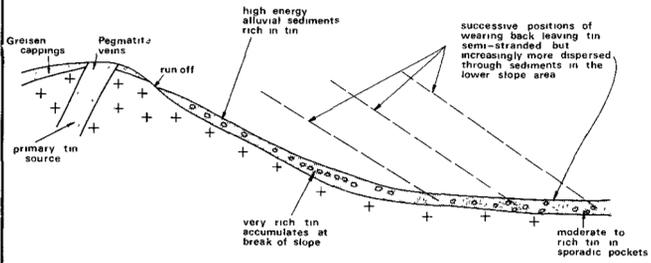
SUCCESSIVE STAGES OF SEDIMENT/TIN DISTRIBUTION IN TERTIARY OF NORTH - EAST TASMANIA - CONCEPTUAL MODEL

1. ALLUVIAL DISTRIBUTION

section parallel to flow

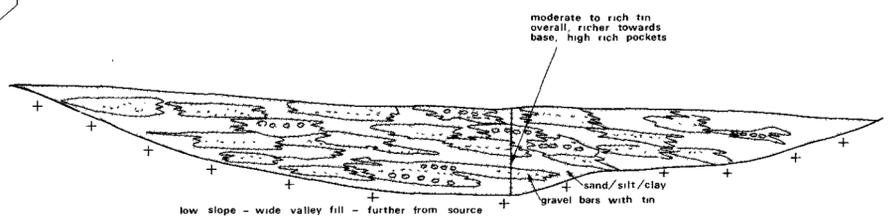
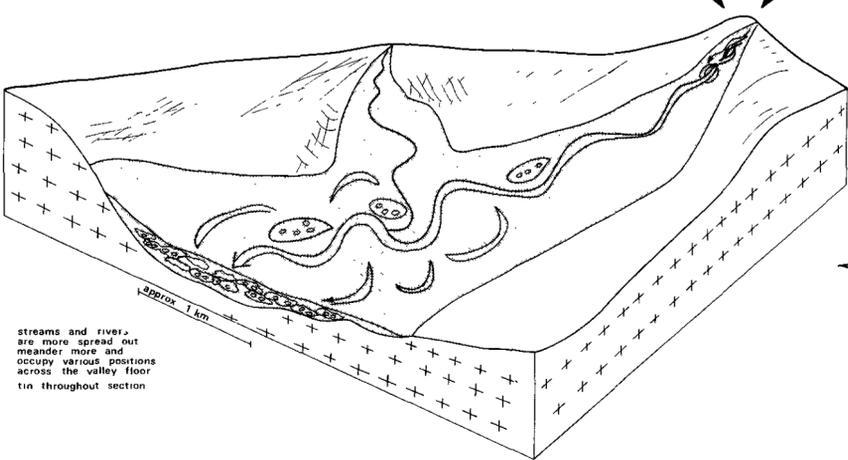
v-shaped valley view

section across flow



wide valley view

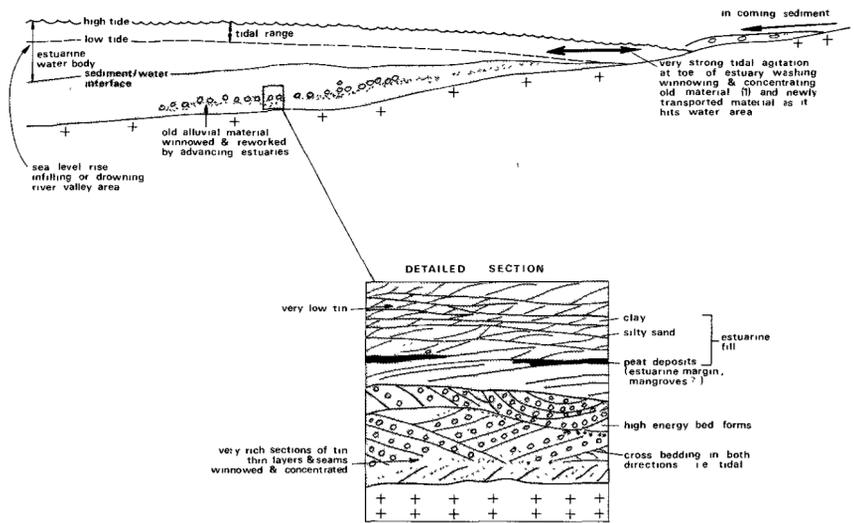
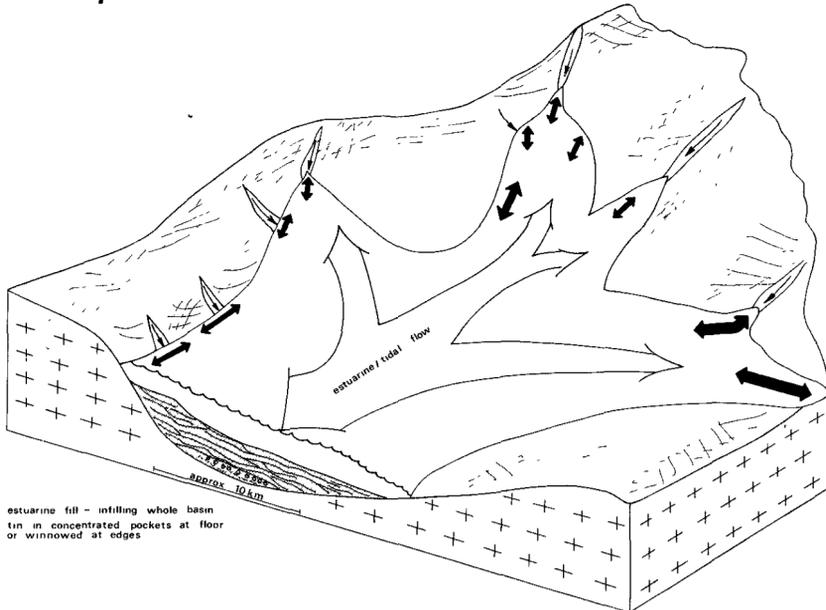
section across flow



2. RIVER VALLEYS DROWNED BY ESTUARINE CONDITIONS - ALLUVIAL/TIDAL ESTUARINE DISTRIBUTION

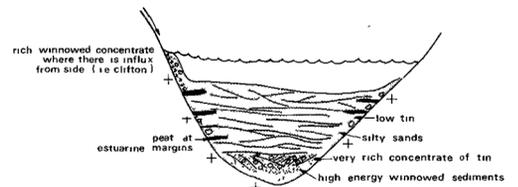
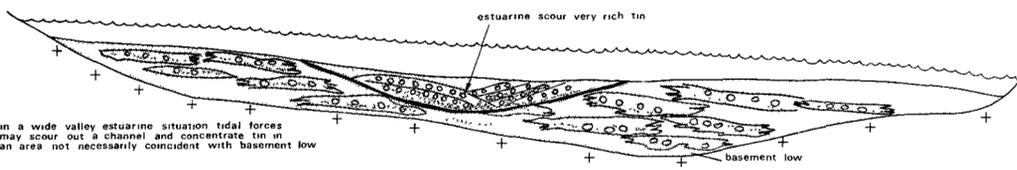
estuary view

parallel section

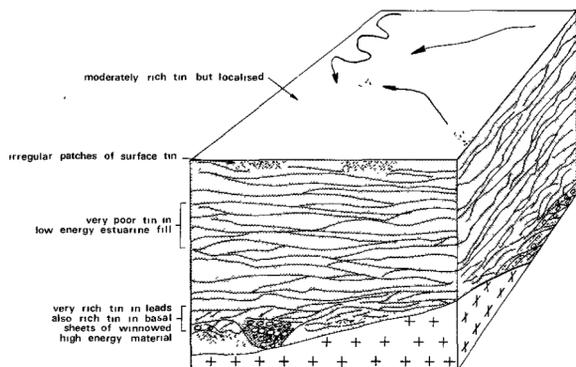


wide valley section

narrow valley (steep sided) section



3. SEA WITHDRAWS SOME SURFACE DRAINAGE CONCENTRATION



- LEGEND
- Tin
 - Cobbles
 - Granite, Grandiorite, Adamellites (Granite bedrock)
 - Sand silt/clay alluvium
 - Peat

AMDEX MINING LIMITED	
N.E. TASMANIA TIN EVALUATION	
DATA BY: L McDONALD	Dwg No 136/24
DATE September, 1978	DRAWN BY: CC