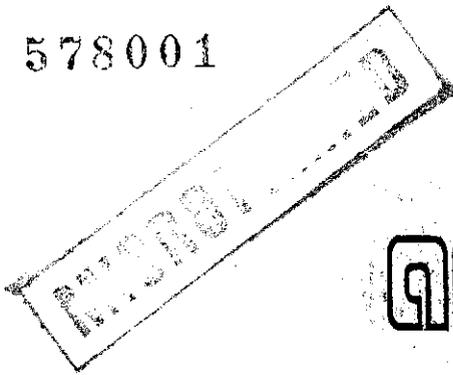


578001

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83-1972

D of M	A.O.	C.G.	E.O.	D.S.M.E.
				Registrar
Received Answered				2 - MAY 1983
				E & IL
DEPT. OF MINES				
REF. NO: 3525/83				

PROJECT NAME: AUSTRALIAN ANGLO AMERICAN PROSPECTING PTY LTD

AMDEX MINING LIMITED

TITLE: RINGARCCMA JOINT VENTURE

A.P. 1/80 - SCOTIA - TASMANIA

~~ANNUAL~~ REPORT TO THE
DEPARTMENT OF MINES, TASMANIA
FOR THE PERIOD - 12 months to 7/3/83.

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

COMMODITY/IES: Tin

TEXT PAGES NO: 4

PLAN NOS: 5

TABLE NOS: 3

APPENDICES: 1

AUTHOR/S: R A A Munro

DATE: 21.3.83

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

83-1972

83-1972

002

CONTENTS

578002

1. INTRODUCTION
 - 1.1. Tenement Details
 - 1.2. Scope of the Report

2. WORK DONE
 - 2.1. Drilling - Northern Part of Scoloch Lead - Sheets 7182 and 7183.
 - 2.1.1. Background
 - 2.1.2. Objectives
 - 2.1.3. Results.
 - 2.1.4. Mineralization
 - 2.1.5. Basement Structure
 - 2.2. Preliminary Engineering Study.
 - 2.3. Map Compilation Programme.

3. FUTURE PROGRAMME.

TABLES

1. AP 1/80 - Scoloch Lead Remapping - Progress Summary Table.
2. Summary Sheet - Percussion Drilling - 1983.
3. Summary Sheets - Mines Department Drilling - 1940.

FIGURES

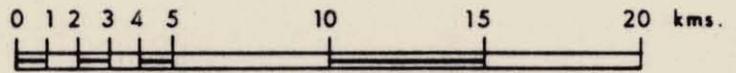
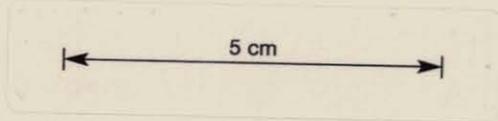
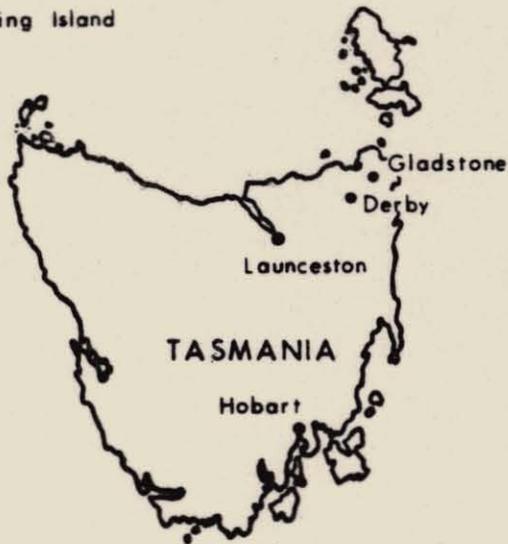
1. AP 1/80 Location Map.
2. Scoloch Lead - Map Sheet 7182. 1:1,500.
3. Scoloch Lead - Map Sheet 7183. 1:1,500.
4. Scoloch Lead - Basement Interpretation - Sheets 7182 - 7183. 1:1,500.
5. Scoloch Lead - Northern End - Long Section.
6. Scoloch Lead - Northern End - Basement Profiles - Block Diagram Form.

APPENDIX

Scotia Percussion Drill Logs.

003

King Island



Scale 1 : 250 000

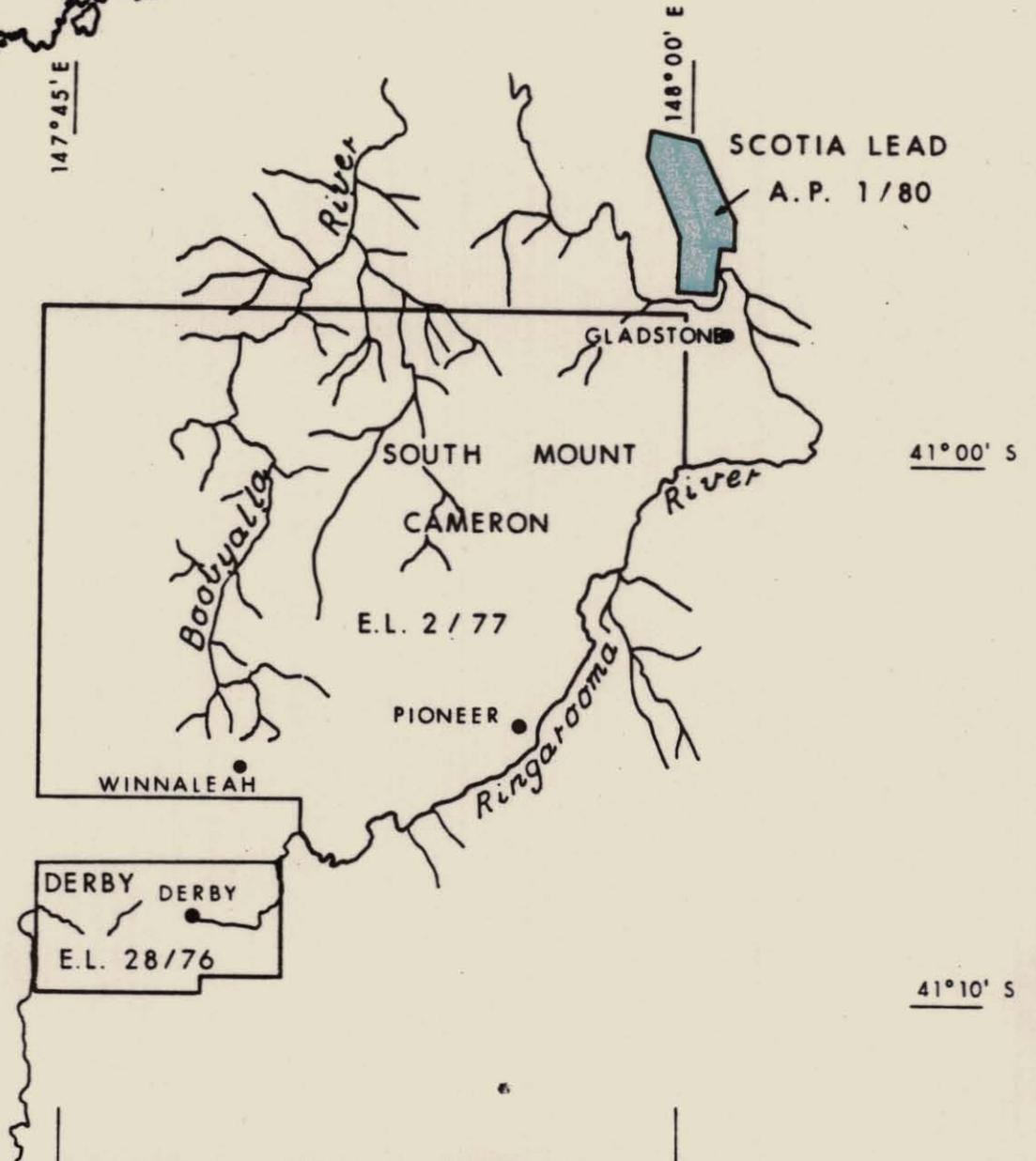
TASMANIA

147°45' E

148°00' E

SCOTIA LEAD

A.P. 1/80



Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

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

AUSTRALIAN ANGLIC AMERICAN LTD.A.P. 1/80Annual Report to the Department of Mines
for 12 months from 8/3/82 to 7/3/83.1. INTRODUCTION

1.1 Tenement Details.

Australian Anglo American Prospecting Pty. Ltd. and the Triako group of companies are currently exploring the Ringarooma Valley and part of the Great Northern Plain for alluvial tin deposits under a Joint Venture agreement. The exploration tenements involved in the Joint Venture are A.P. 1/80, E.L. 2/77 and E.L. 28/76. The location of these tenements is shown on figure 1.

1.2 Scope of the Report.

Activities reported here in and undertaken during the twelve months under review may be summarized as.

- (a) Follow-up drilling with related mapping and analysis of the northern end of the tenement.
- (b) An internal preliminary mining and economic evaluation of the deposit by Australian Anglo American Prospecting Pty. Ltd.

2. WORK DONE

2.1 Drilling - Northern Part of the Scoloch Lead - Sheets 7182 and 7183.

2.1.1 Background: As part of an ongoing review of the total lead system that commenced in 1980, the northern explored end of the Scoloch Lead was researched and subsequently drilled late in 1981. The apparent discontinuity of basement depths and rock type recorded between that programme and previous drilling suggested that the area has been influenced by distrophism.

2.1.2 Objectives: The objectives for the drilling were:-

- (a) To complete the testing across the width of the gutter partly defined and tested by the six Reverse Circulation (R.C.) holes SRC 1 to SRC 6, drilled in November 1981.

- (b) To help elucidate the basement structure and to test for possible enhanced mineralization associated with the apparent rise in the R.L. of the basement down the gradient of the lead.

2.1.3. Results: Four percussion holes were drilled, totalling 116 metres of drilling. Essential data is given on the attached summary sheet. Detailed logs of the holes are appended. Location on the holes are shown on plans TAS - 10 - 20 (Sheet 7182) and TAS - 10 - 21 (Sheet 7183). Both these plans have been recently revised and topographic information has been added.

Drilling on these sheets now consists of six lines of drilling.

1. Line "E": Mines Dept. (19 bores - 1940) 4½" Calyx. None of these holes have been located on the ground. Holes to the north of the AP 1/80 boundary have been obliterated by ploughing.
2. "SRC" Line - Australian Anglo American (6 bores - Nov. 1981) - 60mm Reverse Circulation and a single percussion hole (AS 20) drilled in February, 1983.
3. Line of "A" series holes - BMI Mining Ltd. (6 bores, 1973) plus one check percussion hole (AS 19) drilled in January, 1983.
4. Line of "AS" series holes - Australian Anglo American (2 bores February, 1983) - AS 21 and AS 22.
5. Line "F" - Mines Dept. (18 Bores, 1940) 4½" Calyx plus three Amdex Mining Ltd. (1978) percussion hole - AS 3 not complete. Some of the "F" series holes have been located, the numbering of the holes is by a "best fit" method.
6. Line "D" - Mines Dept. (22 bores, 1940) 4½" Calyx. Again only some of the holes have been relocated on the ground. The numbering sequence is determined by "best fit".

2.1.4. mineralisation: Consistant with previous bore grades of holes situated over the channel the four bores drilled in 1983 have only recovered cassiterite in sub-economic amounts. AS 20 was located to the east of the channel and was thus recorded a low grade.

Over the broad extent of the Scoloch channel on Sheets 7182 and 7183 a cassiterite placer up to 4 m thick lies on the basement

006

rock. It is similar in character on both sides of the fault (see next section). The grade of tin amidst coarse sub-rounded quartz wash is greatest of line "O" where values as high as $3400 \text{ g SnO}_2/\text{m}^3$ have been recorded for the lowest horizon. However a more general range for all sample lines for the bottom wash is $150 - 250 \text{ g SnO}_2/\text{m}^3$ giving surface to basement values between $70 - 150 \text{ g SnO}_2/\text{m}^3$. See tables 1 and 2.

In surface and underlying 12 - 16 m cassiterite is absent. The middle portion of the alluvial sequence can be identified with the first intersection of wash (mostly small) containing patchy fine tin.

2.1.5. Basement Structure: The drilling results and mapped basement structure (figure 4) shows this portion of the Scoloch Lead to be considerably wider than the upstream section. Through lines "D" and "F" the channel is 125 to 200 m. wide. It is incised about 20 metres into basement; the R.L. of the deepest incision being -22 m.

Between the "F" line and the line AS 21-22, there is an abrupt rise of 15 to 17 m in the R.L. of the base of the lead. The channel broadens north west from this dislocation through other drill lines where the lead is between 250 and 450 m. wide. The gradient of the gutter (may be an "apparent gradient") is steeper for this section, falling from -5 R.L. on line AS 21-22 to about -10 R.L. on line E. The long section (figure 5) demonstrates this.

Corresponding with the N.E. - S.W. translation plane direction of a proposed fault, (figure 4 and 6) essentially normal to the lead, differing basement rock types have been recorded. All Scotia drilling south of Line D has terminated in basement rocks belonging to the Mathinna Beds. A variety of different substrates that do not include recognizable Mathinna Beds are found to the north of the fault. These basement types which show no discernable spatial relationship are:

- (a) Pure, well consolidated, massive, medium grey silts (decomposed Permian?) that sometimes grade to black or dark green fine grained meta - sandstone.
- (b) Dolerite breccia - weathered.
- (c) In situ weathered dolerite.

These rocks are typical of some Great Northern Plains - Fosters Marshes basement types within the Boobyalla Graben.

The fault, depicted in figures 4 and 6 is correlated with north - west trending faults of Cretaceous and early Tertiary age involved in the development of the Bass Basin. The initial movement on this fault was down throw of the northern block. Since the formation and sedimentation of the Scoloch Lead during the middle Tertiary subsequent movement by one or both blocks has re-activated the fault. The drilling suggests a 16 m. uplift of the northern block and translationed movement of some 150 m.

- 2.2 Preliminary Engineering Study: A preliminary engineering study on the technical and economic feasibility of mining the Scotia Lead was made. This suggested that mining was technically feasible by pre-stripping, overburden followed by either dredging with either continuous bucket line or underwater bucket wheel. The economic evaluation suggests that mining the Scotia Lead by itself is not viable at the price existing at the time and projected for several years in the future.
- 2.3 Map Compilation Programme: Very little work was done on the continuation of the Compilation of the 1:1500 series of sheets covering the Scoloch Lead system. The status of the project is summarised on the attached tables. Surveying is now in progress in preparation for the production of plans 6983 and 6984.

3. FUTURE PROGRAMME

The proposed work programme for the tenement includes:-

1. Continuation of the production of all outstanding 1:1500 map sheets.
2. As part of an overall assesment of the Ringarooma project, another engineering and economics study of mining the Scoloch Lead system will be made towards the end of 1983.

R A A MURRO

RAA Murro

Approved by

J. P. Wilding

J. P. WILDING

Chief Geologist Australia

008
 I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 PARTRIDGE CRESCENT, FRANKSTON in the State of Victoria, Chief Accountant, DO SOLEMNLY AND SINCERELY DECLARE as follows:

That in the eleven months ended 28 February 1983 we have expended \$43 030 on Authority to Prospect 1/80 analysed as follows -

	\$
(a) Operational staff costs	17 742
(b) General operational expenses	1 771
(c) Transport and travel	2 134
(d) Assays	361
(e) Tenement costs	120
(f) Contractors	100
(g) Specialist services	10 230
(h) Drilling and treatment	4 289
(i) Capital expenditure	-
(j) Administration costs	6 283
	<u>43 030</u>

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT *Melbourne*)
)
 in the State of Victoria)
)
 this *21st* day of)
)
April 1983)

O. Fonseca

Before me:

[Signature]

TABLE 1

A.P. 1/80 Scoloch Lead - REMAPPING PROGRESS SUMMARY TABLE 7.3.83.

Map Sheet	Approx. No. of Drill Holes on Map Sheet	% completion of base map	% completion of associated surveying	% treatment of basic hole data	% completion of location/grade/B.R.L. map	% completion basement contour map	% completion geological reserves map + calculations
6683	5	90	0	50	0	0	0
6684	30	90	40	60	25	0	0
6783	45	100	100	100	100	30	0
6784	450	100	100	100	100	0	0
6785	5	90	60	100	0	0	0
6883	170	100	100	100	100	0	0
6884	60	100	100	100	100	0	0
6983	290	90	70	30	5	0	0
6984	20	90	80	30	5	0	0
7082	20	90	20	10	0	0	0
7083	70	90	20	10	0	0	0
7084	15	90	80	15	0	0	0
7182	65	100	100	100	100	80	0
7183	35	100	100	100	100	80	0

Estimated man hours

Report for period:

27.1.81 to 26.7.81	175	75	125	100	4	0
26.7.81 to 7.3.82	30	45	35	25	0	0
8.3.82 to 8.3.83	10	15	5	0	10	0

009

578009

AUSTRALIAN ANGLO-AMERICAN - NORTH EAST TASMANIA - DRILLING SUMMARY

AREA: SCOTIA LEAD YEAR: 1940
DRILLING METHOD: 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 ^o (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	Grade + (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	% of interval sampled	AMG Sheet No	Casing Diameter cm	Date Drilled
1 D	N3 W2	25.32	11.6	15.2	13.7					Tr					7183	12.7	5/40
2 D		25.46	4.3	21.6	21.2					Tr				20.1- 21.6	"	"	5/40
3 D		26.29	- 4.5	31.4	30.8					Tr					"	"	5/40
4 D		25.80	-13.8	41.5	39.6					27					"	"	5/40
5 D		25.67	-19.1	45.7	44.8					26				34.5 45.7	7182	"	5/40
6 D		25.52	-22.0	48.2	47.5					24				35.7- 48.2	"	"	5/40
7 D		25.26	-22.9	48.8	48.2					214				33.5- 48.8	"	"	5/40
8 D		24.89	-20.8	46.3	45.7					172				27.7- 46.3	"	"	5/40
9 D		24.96	-18.1	44.8	43.1					44				41.5- 44.8	"	"	6/40
10 D		25.28	-21.0	46.9	46.3					111				31.3- 46.9	"	"	6/40
11 D		25.26	-14.9	41.1	40.2					Tr					"	"	6/40
12 D		25.34	-11.3	37.2	36.6					Tr					"	"	7/40
13 D		25.45	- 7.7	33.8	33.2					Tr					"	"	7/40
14 D		24.98	- 2.7	28.3	27.7					Tr					"	"	7/40
15 D		28.8	18.7	11.3	10.1					Tr					7183	"	7/40
16 D		25.5	6.9	29.0	18.6					Tr					"	"	12/40
17 D		25.62	21.9	13.1	3.7					Tr					"	"	12/40
18 D		26.00	15.6	11.0	10.4					Tr					"	"	12/40

* Grade calculated by relating recorded volume to recovered tin

Author: R. MUNRO

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

Date:

278011

AUSTRALIAN ANGLO AMERICAN - NORTH EAST TASMANIA - DRILLING SUMMARY

AREA: SCOTIA LEAD YEAR: 1940

DRILLING METHOD: SURGE / CAYLX.

Hole No.	Collar Coordinates mN mE	Surface R.L.	Basement R.L.	Depth Drilled (m)	Depth to Basement (m)	Area of influence (m ²)	Volume (m ³)	Total rec. volume to basement (%)	Total rec. SnO ₂ (g)	Grade * (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	Grade + (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	% or interval sampled	AMG Sheet No	Casing Diameter cm	Date Drilled
1 E	N3 W3	20.7	6.7	41.76	14.02					-				=	7182		8/40
2 E		21.0	- 8.7	30.48	29.72					56				26.8- 29.7	"	12.7	8/40
3 E		21.2	- 8.6	30.48	29.87					96				26.8- 29.8	"	"	8/40
4 E		20.6	- 7.6	28.11	28.20					89				24.1- 28.2	"	10.2	8/40
5 E		20.8	- 9.3	32.0	30.1					19				22.3- 30.1	"	12.7	8/40
6 E		19.7	- 9.8	31.09	29.57					59				22.3- 29.6	"	"	8/40
7 E		20.8	- 7.2	28.96	28.04					33				17.3- 28.0	"	10.2	8/40
8 E		18.7	- 9.2	31.09	28.04					70				24.6- 28.0	"	12.7	8/40
9 E	N3 W2	18.4	-10.1	29.26	28.53					82				17.9- 28.5	"	"	9/40
10 E		17.0	-10.1	28.04	27.13					121				17.3 27.1	"	10.2	9/40
11 E		16.8	-10.6	28.96	27.43					89				22.3- 27.4	"	12.7	9/40
12 E	N4 W2	≈16.7	-12.3	30.48	29.05					52				20.7- 29.1	"	10.2	9/40
13 E		≈16.6	-10.7	28.65	27.26					53				20.1 27.3	"	12.7	9/40
14 E		≈16.6	- 7.8	25.30	24.38					Tr				-	"		9/40
15 E		≈16.6	-10.0	28.96	26.59					58				17.9 26.6	"	12.7	9/40
16 E	N3 W3	21.9	17.1	15.24	4.88					-					"		9/40
17 E	N4 W2	≈16.7	- 5.8	23.16	22.56					Tr					7183		9/40
18 E	N3 W3	23.3	11.7	12.19	11.58					-					7182		9/40
TOTALS																	

* Grade calculated by relating recorded volume to recovered tin

Author: R. MUNRO

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

Date:

578013

AUSTRALIAN ANGLIO AMERICAN - NORTH EAST TASMANIA - DRILLING SUMMARY

AREA: **SCOTIA LEAD** YEAR: 1940

DRILLING METHOD: SURGE / GAYLX.

578014

Hole No.	Collar Coordinates mN mE		Surface R.L.	Basement R.L.	Depth Drilled (m)	Depth to Basement (m)	Area of influence (m ²)	Volume (m ³)	Total rec. volume to basement (%)	Total rec. SnO ₂ (g)	Grade * (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	Grade + (gSnO ₂ /m ³)	Contained SnO ₂ (kg)	% or interval sampled	AMG Sheet No.	Casing Diameter cm	Date Drilled
19 E	N3	W3	22.1	13.0	11.58	9.14				-						7182	cm	9/40
1 F			24.85	-21.3	46.9	46.1				137				17.9- 46.1	"	12.7	9/40	
2 F			24.7	-20.7	46.3	45.4				182				38.6- 45.4	"	10.2	10/40	
3 F			24.64	- 5.9	30.6	30.6				108				26.8- 30.6	"	12.7	10/40	
4 F			25.3	-19.2	45.1	44.5				Tr					"		10/40	
5 F		↓	24.62	-21.1	46.9	45.7				Tr					"		10/40	
6 F	N3	W3	25.1	-15.6	41.5	40.8				Tr					"		10.40	
7 F	N3	W2	24.6	-21.6	48.5	46.3				Tr					"		10/40	
8 F	N3	W3	24.5	- 1.7	27.1	26.2				Tr					"		10/40	
9 F			24.5	-22.4	47.5	46.9				Tr					"		10/40	
10 F			24.6	-18.4	45.7	43.0				Tr					"		11/40	
11 F			24.6	-17.5	44.5	42.1				Tr					"		11/40	
12 F		↓	24.4	-14.0	39.0	38.4				Tr					"		11/40	
13 F	N3	W3	24.6	-12.8	39.6	37.5				Tr					"		11/40	
14 F	N3	W2	24.53	- 9.3	36.6	33.8				Tr					"	7183	11/40	
15 F			24.71	- 3.3	29.3	28.0				Tr					"		12/40	
16 F			25.6	2.7	24.7	22.9				Tr					"		12/40	
17 F		↓	25.1	10.2	18.0	14.9				-					"		12/40	
TOTALS																		

* Grade calculated by relating recorded volume to recovered tin

Author: R. MUNRO

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

Date:

578014

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA Scotia COLLAR CO-ORDINATES 582892 mE 5471492 mN DRILLING METHOD Percussion HOLE No. A.S. 19
 SURFACE R.L. 23.7 m BASEMENT R.L. - 4.1 m CUTTING SHOE/ BIT DIAMETER 16.03 c.m. THEORETICAL VOLUME 40.7 litres PAGE 1 of 3
 DRILLER G. Selby SAMPLE WASHER S. Moore ASSAY METHOD XRF GEOLOGIST R. Munro DATE 6-17/1/83

Section From m	To m	Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
0	2	20.5	106.3	0.05	0.08	3.7	2.3	0-1 Fine sand.
2	4	16	95.0	0.06	0.08	5.1	2.4	1-2 Fine sand and silt.
4	6	9.5	105.3	0.06	0.09	9.5	2.7	2-3 Fine sand, white silt.
6	8	20.5	83.0	0.07	0.08	4.0	2.5	3-4 Fine sand, white silt.
8	10	12.5	91.8	0.04	0.05	4.1	1.6	4-5 Fine sand, white silt.
10	12	10.5	97.6	0.08	0.11	10.6	3.4	5-6 Fine sand, white silt.
12	14	24	88.6	0.35	0.44	18.4	13.6	6-7 Fine sand, white silt.
14	16	35.5	98.3	2.57	3.60	101.7	110.5	7-8 Fine and coarse sand, white-brown silt.
16	18	37	81.4	1.33	1.55	41.8	47.5	8-9 Fine and coarse sand, white-brown silt.
18	20	22	81.7	0.22	0.26	11.7	7.9	9-10 Fine and coarse sand, white-brown silt.
20	22	20.5	80.6	0.94	1.08	35.5	33.2	10-11 Fine and coarse sand, white-brown silt.
22	24	44	89.2	50.3	6.41	145.7	145.7	11-12 Fine and coarse sand, heavy drift, white and brown silty clay.
24	26	36	90.9	4.55	5.91	164.1	181.4	12-13 Fine and coarse sand, heavy drift, white and brown silty clay.
26	28	22	87.3	3.29	4.10	186.5	125.9	13-14 Fine and coarse sand, heavy drift, small and medium quartz angular wash.
28	29	17	113.7	0.23	0.37	21.9	22.9	14-15 Fine and coarse sand, heavy drift, small and medium quartz angular wash.
29	30	13	302.4	0.04	0.17	13.3	10.6	15-16 Fine and coarse sand, heavy drift, small and medium quartz angular wash.
								16-17 Fine and coarse sand, heavy drift, small and medium quartz angular wash.
								17-18 Fine and coarse sand, heavy drift, small and medium quartz angular wash.
								18-19 Coarse and fine sand, heavy drift, small quartz angular wash.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 27.8 m

Grade from surface to inferred basement

Total recovered volume, surface to basement litres

Grade 1 at m g SnO2/m³

Total recovered tin 24.4 g SnO2

Grade 2 at 27.8 m 53.2 g SnO2/m³

015

APPENDIX

578015

018

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA...Scotia..... COLLAR CO-ORDINATES...583061.....ME...5471598.....mN DRILLING METHOD...Percussion... HOLE No...A.S. 20...
 SURFACE R.L. 24.7.....m BASEMENT R.L. - 1.6.....m CUTTING SHOE/ BIT DIAMETER...16.03... THEORETICAL VOLUME...40.7.....litres PAGE...1...of...2...
 DRILLER...G. Selby..... SAMPLE WASHER...S. Moore... ASSAY METHOD...XRF... GEOLOGIST...R. Munro... DATE...17-26/1/83...

Section		Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
From m	To m							
0	2	20	89.9	0.11	0.14	7.1	4.3	0-1 Fine sand.
2	4	20	90.9	0.09	0.12	5.8	3.5	1-2 Fine sand, brown cement.
4	6	14.5	90.3	0.08	0.10	7.1	3.2	2-3 Fine sand.
6	8	19	92.9	0.14	0.19	9.8	5.7	3-4 Coarse and fine sand, heavy drift, small quartz angular wash.
8	10	17	88.0	0.69	0.87	51.0	26.7	
10	12	20.5	99.2	0.27	0.38	18.7	11.7	4-6 Coarse and fine sand, white silty clay.
12	14	27	96.5	0.09	0.12	4.6	3.8	6-8 Coarse and fine sand.
14	16	32	86.7	0.20	0.25	7.7	7.6	8-11 Coarse and fine sand, heavy drift, small quartz angular wash.
16	18	24.5	89.2	0.03	0.04	1.5	1.2	
18	20	19	109.9	0.06	0.09	5.0	2.9	11-12 Coarse and fine sand, heavy drift, small quartz angular wash, brown silty clay, wood.
20	22	57	81.7	0.27	0.32	5.5	5.5	
22	24	59.5	82.8	1.54	1.82	30.6	30.6	
24	26	25	98.5	5.50	7.73	309.6	237.6	12-14 Coarse and fine sand, heavy drift.
26	27	8	137.6	0.84	1.65	206.4	103.0	14-15 Coarse and fine sand, heavy drift, small quartz angular wash.
27	28	6	101.3	0.11	0.16	26.5	9.8	15-18 Coarse and fine sand, heavy drift, small quartz angular wash, brown silty clay.
								18-19 Coarse and fine sand, white and brown silt clay.
								19-20 Coarse and fine sand.
								20-22 Coarse and fine sand, heavy drift, small quartz angular wash.
								22-24 Coarse and fine sand, heavy drift, small and medium quartz angular wash.
								24-26 Coarse and fine sand, heavy drift, small and medium quartz angular wash, brown silt clay.

Grade 1 calculated by relating recovered volume to recovered tin. Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F= 80%
 Drillers reported basement at...26.3.....m Grade from surface to inferred basement
 Total recovered volume, surface to basement.....litres Grade 1 atm g SnO2/m³
 Total recovered tin...13.98.....g SnO2 Grade 2 at...26.3.....m...30.5.....g SnO2/m³

578018

022

AUSTRALIAN ANGLO AMERICAN LTD. DRILL LOG

AREA Scottie COLLAR CO-ORDINATES 582809 mE 5471395 mN DRILLING METHOD Percussion HOLE No. A.S. 22
 SURFACE R.L. 24.1 m BASEMENT R.L. 1.3 m CUTTING SHOE/ BIT DIAMETER 16.03 THEORETICAL VOLUME 40.7 litres PAGE 1 of 2
 DRILLER G. Selby SAMPLE WASHER S. Moore ASSAY METHOD XRF GEOLOGIST R. Munro DATE 3-11/2/83

Section		Recovered Volume (litres)	Weight Conc. (g)	Conc. Assay % Sn	Recovered Tin gSnO2	Grade 1 gSnO2/m ³	Grade 2 g SnO2/m ³	Description of Sample
From m	To m							
0	2	15	99.1	0.07	0.10	6.6	3.0	0-1 Fine sand.
2	4	22.5	115.5	0.14	0.23	10.3	7.1	1-2 Coarse and fine sand, heavy drift, yellow and brown clay.
4	6	27.5	110.6	0.11	0.17	6.4	5.3	2-4 Coarse and fine sand, heavy drift, small quartz angular wash.
6	8	30	111.4	0.13	0.21	6.8	6.4	
8	10	19	107.1	0.24	0.37	19.3	11.3	4-5 Coarse and fine sand, heavy drift, white clay.
10	12	23.5	100.4	1.62	2.32	98.9	71.3	
12	14	35.5	see sizing results		7.06	198.9	216.7	5-10 Coarse and fine sand, heavy drift,
14	16	28	"	"	3.97	141.9	122.1	
16	18	36.5	87.0	0.93	1.15	31.7	35.5	10-17 Coarse and fine sand, heavy drift, small quartz angular wash.
18	20	49	94.6	0.73	0.98	20.1	20.1	
20	22	62	83.7	1.68	2.01	32.4	32.4	17-18 Coarse and fine sand, heavy drift, brown and white silty clay.
22	24	33	89.3	1.60	2.04	61.8	62.7	
24	26	29.5	99.6	4.67	6.64	225.2	204.0	18-19 Coarse and fine sand, heavy drift, small quartz angular wash.
26	27	6	84.7	0.17	0.21	34.3	12.7	
27	28	8	82.3	0.08	0.09	11.8	5.7	19-20 Coarse and fine sand, heavy drift, small angular wash, brown silty clay.
								20-25 Coarse and fine sand, heavy drift, small and medium quartz angular wash.
								25-26 Coarse and fine sand, heavy drift, small and medium quartz angular wash, dolerite.
								26-28 Dolerite.
<u>Sample Washer's Heavy Mineral Descriptions:</u>								
								0-10 Ilmenite, monazite.
								10-12 Small amount tin, ilmenite, monazite.
								12-16 Tin, ilmenite, monazite.
								16-18 Trace tin, ilmenite, pyrite.

Grade 1 calculated by relating recovered volume to recovered tin.

Grade 2 calculated by relating Radford factored theoretical volume to recovered tin Rad. F = 80%

Drillers reported basement at 25.4 m

Grade from surface to inferred basement

Total recovered volume, surface to basement 27.55 litres

Grade 1 at 25.4 m 63.6 g SnO2/m³

Total recovered tin 27.55 g SnO2

Grade 2 at 25.4 m 63.6 g SnO2/m³

578022

024

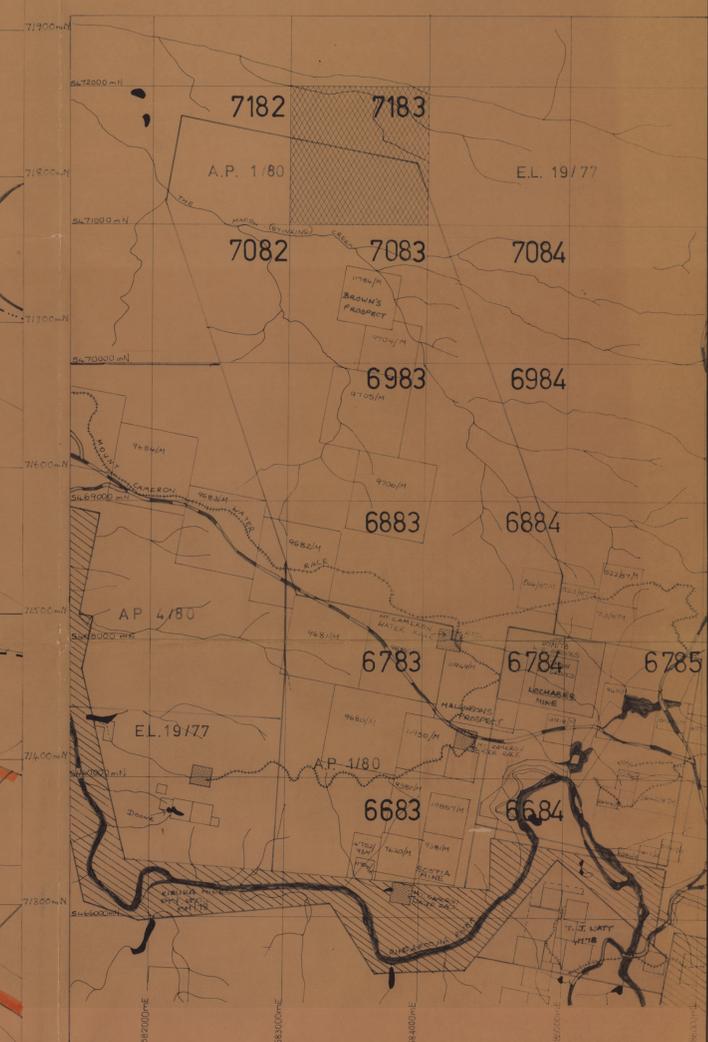
AUSTRALIAN ANGLO AMERICAN LTD.

Cassiterite Sizing Results

Hole A.S. 22

	NOMINAL MESH NOS.	APERTURE mm	% OF SnO ₂ ASSAYED	PERCENTAGE SnO ₂ (FRACTION)	CUMM. PERCENTAGE SnO ₂
Sample Interval 12 - 14					
	plus 22	.71	0.029	0.4	0.4
SAMPLE VOLUME 35.5 l	plus 30	.5	0.038	0.5	0.9
GRADE 216.7 g/m ³	plus 60	.25	0.049	0.7	1.6
TOTAL GRAMS OF SnO₂ 7.06	plus 120	.125	5.4	76.5	78.1
	minus 120		1.54	21.8	100.0
Sample Interval 14 - 16					
	plus 22	.71	0.043	1.1	1.1
SAMPLE VOLUME 28.0 l	plus 30	.5	0.039	1.0	2.1
GRADE 122.1 g/m ³	plus 60	.25	0.039	1.0	3.1
TOTAL GRAMS OF SnO₂ 3.97	plus 120	.125	2.552	64.3	67.4
	minus 120		1.30	32.7	100.0
Sample Interval					
	plus 22	.71			
SAMPLE VOLUME	plus 30	.5			
GRADE	plus 60	.25			
TOTAL GRAMS OF SnO₂	plus 120	.125			
	minus 120				

578024



BASEMENT INTERPRETATION MAP

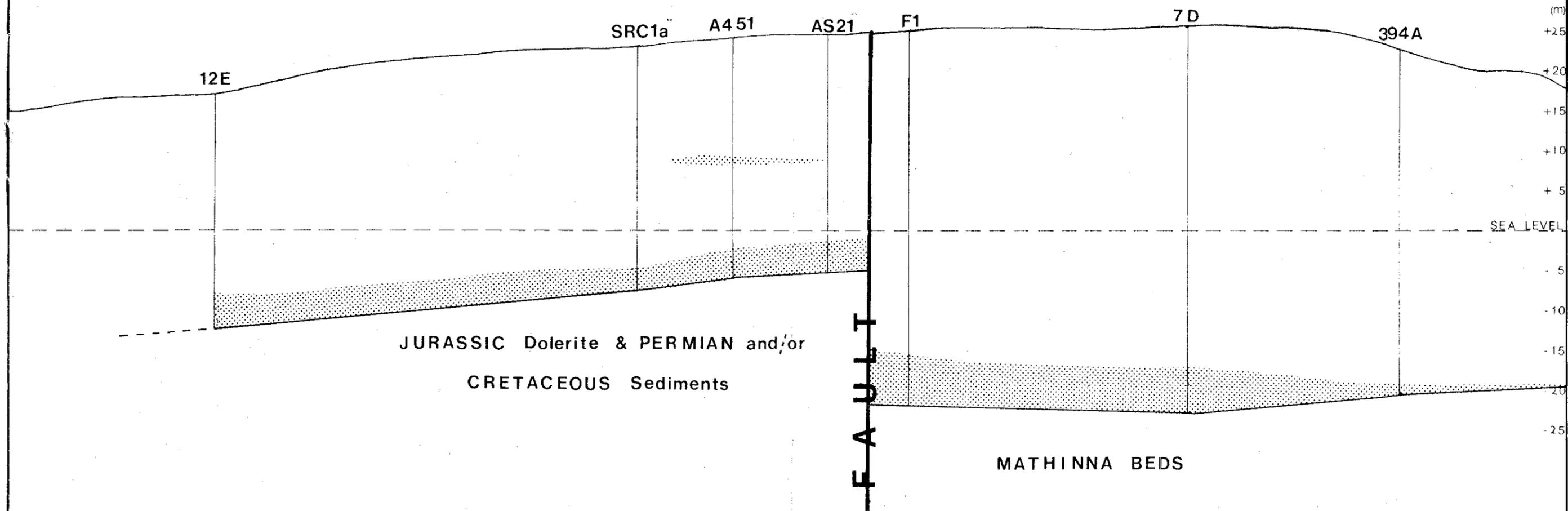
— CREEKS
 — 60 — CONTOURS
 - - - TRACKS

5m Basement Contours

PARMEENER SUPER GROUP. Float & Limited Outcrop

AMDEX MINING LTD. - SCOLOCH LEAD		578026	REVISION
SHEET - 7183		REVISION	57
DRILL HOLE LEGEND		LOCATION - NE TASMANIA	
●	See notes	2006	Drilling/Assay
○	See notes	1978	Assay
○	See notes	1971	Assay
○	See notes	1971-72	Assay
○	See notes	1970-73	Assay
○	See notes	1965-69	Assay
○	See notes	1964-65	Assay
○	See notes	1963	Assay
○	See notes	1962	Assay
○	See notes	1961	Assay
○	See notes	1960	Assay
○	See notes	1959	Assay
○	See notes	1958	Assay
○	See notes	1957	Assay
○	See notes	1956	Assay
○	See notes	1955	Assay
○	See notes	1954	Assay
○	See notes	1953	Assay
○	See notes	1952	Assay
○	See notes	1951	Assay
○	See notes	1950	Assay
○	See notes	1949	Assay
○	See notes	1948	Assay
○	See notes	1947	Assay
○	See notes	1946	Assay
○	See notes	1945	Assay
○	See notes	1944	Assay
○	See notes	1943	Assay
○	See notes	1942	Assay
○	See notes	1941	Assay
○	See notes	1940	Assay
○	See notes	1939	Assay
○	See notes	1938	Assay
○	See notes	1937	Assay
○	See notes	1936	Assay
○	See notes	1935	Assay
○	See notes	1934	Assay
○	See notes	1933	Assay
○	See notes	1932	Assay
○	See notes	1931	Assay
○	See notes	1930	Assay
○	See notes	1929	Assay
○	See notes	1928	Assay
○	See notes	1927	Assay
○	See notes	1926	Assay
○	See notes	1925	Assay
○	See notes	1924	Assay
○	See notes	1923	Assay
○	See notes	1922	Assay
○	See notes	1921	Assay
○	See notes	1920	Assay
○	See notes	1919	Assay
○	See notes	1918	Assay
○	See notes	1917	Assay
○	See notes	1916	Assay
○	See notes	1915	Assay
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○	See notes	1911	Assay
○	See notes	1910	Assay
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○	See notes	1901	Assay
○	See notes	1900	Assay
○	See notes	1899	Assay
○	See notes	1898	Assay
○	See notes	1897	Assay
○	See notes	1896	Assay
○	See notes	1895	Assay
○	See notes	1894	Assay
○	See notes	1893	Assay
○	See notes	1892	Assay
○	See notes	1891	Assay
○	See notes	1890	Assay
○	See notes	1889	Assay
○	See notes	1888	Assay
○	See notes	1887	Assay
○	See notes	1886	Assay
○	See notes	1885	Assay
○	See notes	1884	Assay
○	See notes	1883	Assay

6543



JURASSIC Dolerite & PERMIAN and/or
CRETACEOUS Sediments

MATHINNA BEDS

FAULT

 CASSITERITE MINERALISATION

•• Hole Offset

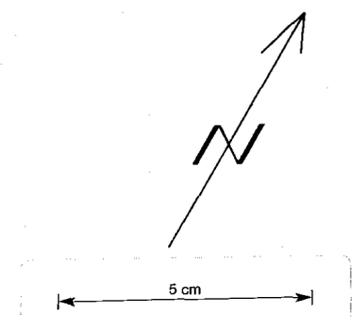
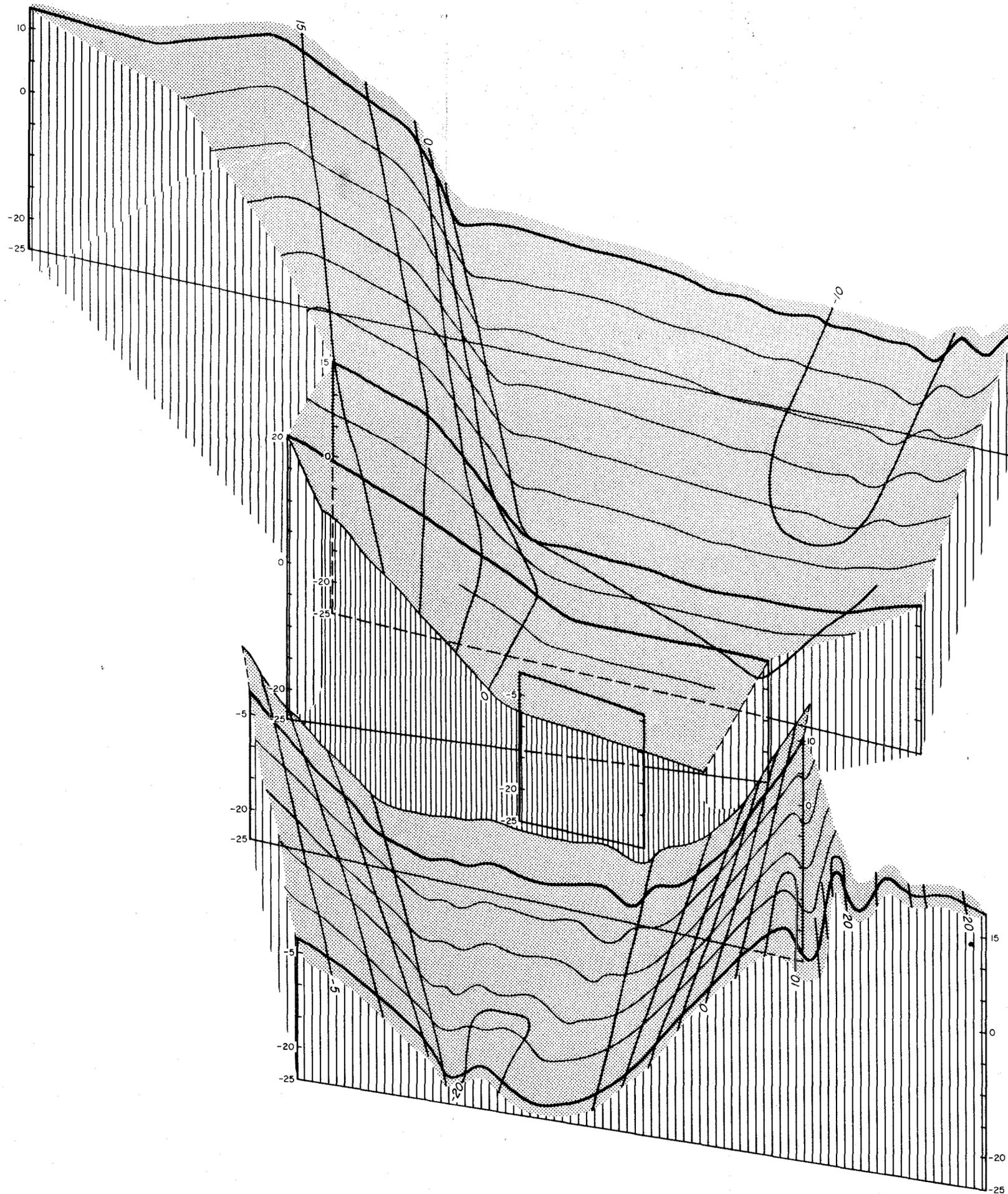
578027

AUSTRALIAN ANGLO AMERICAN LIMITED			
DOWN-LEAD LONG-SECTION :			
NORTHERN SCOLOCH LEAD			
N. E. TASMANIA		APR 1 / 80	
83-1972		6344	
COMPILED R. Munro	DRAWN R. Munro	SCALE V: 1:2500	H: 1:50



TAS-10-152

Figure 5



-  Surface of basement
-  Face of fault
-  Sides of block diagram

Note: Datum = Australian Height Datum
Contour Interval = 5m



578028 Fig 6

AUSTRALIAN ANGLO AMERICAN LTD			
PROJECT	AMDEX JOINT VENTURE		
AREA	SCOTIA LEAD		
DATA	TASMANIAN DIVISION		
	BLOCK DIAGRAM OF BASEMENT		
	83-1972.	6345	
COMPILED	B.D.Mellor	SCALE	H=1:2500 V=1:500
DRAWN	March 1983	REF No	TAS-10-154
AMENDED			

027

MICROFILMED

QAC

U of M	A.O.	C.G.	E.O.	D.S.M.E.
Received Answered				10 MAR 1983
DEPT. OF MINES				Registrar E & IL
REF. No: 1856/83				

PROJECT NAME:

AUSTRALIAN ANGLO AMERICAN - TRIAKORINGAROOMA JOINT VENTURE

TITLE:

E.L.28/76Annual Report to the Department of Minesfor the twelve months from 8/3/82 to 7/3/83

AREA NAME/S, STATE 1: 250,000 SHEET NO/S & COORDINATES:

Derby, Tasmania
SK55-4 Launceston
E5 63 500 E54 44 000

COMMODITY/IES:

Tin

TEXT PAGES NO:

3

PLAN NOS:

Location
TAS-10-17

TABLE NOS:

-

APPENDICES:

-

AUTHOR/S:

Bruce D. Mellor

DATE:

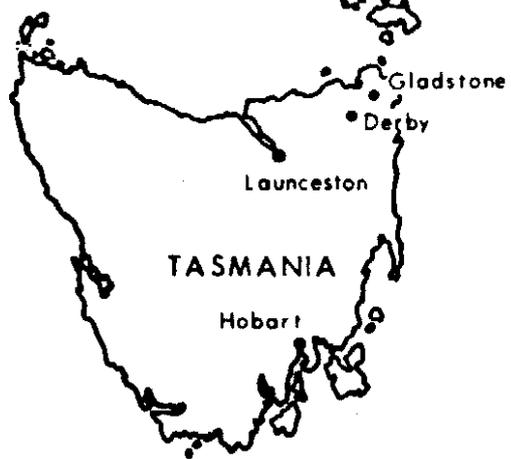
25/2/83

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

029

King Island



5 cm

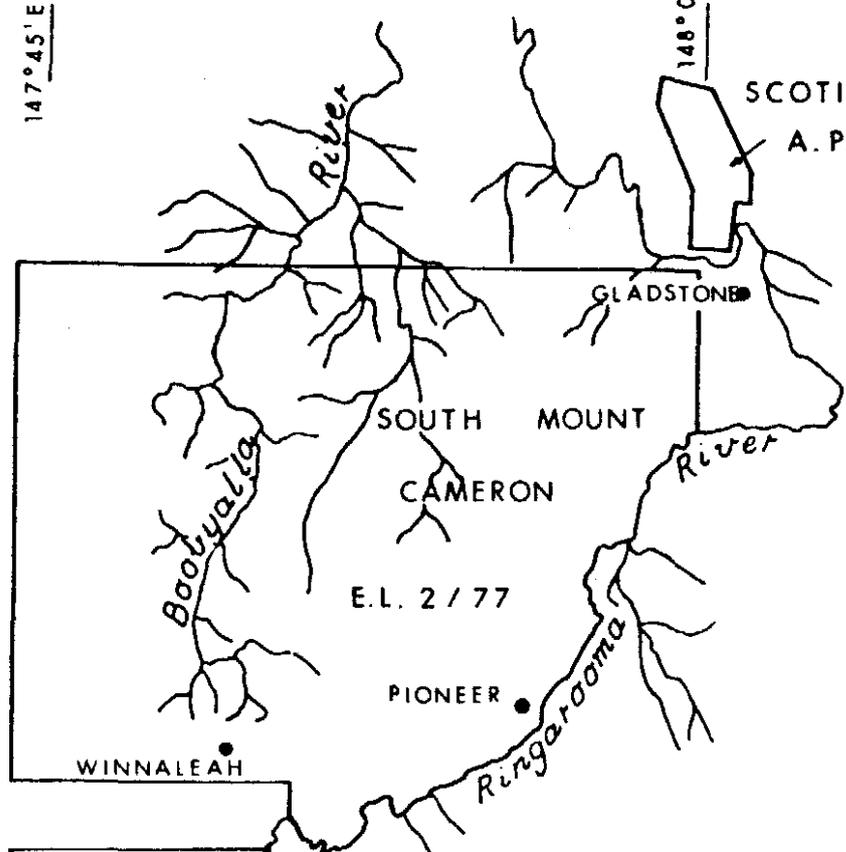


Scale 1 : 250 000

147°45' E

148°00' E

SCOTIA LEAD
A.P. 1/80



41°00' S

DERBY DERBY
E.L. 28/76

41°10' S

Amdex Mining Limited

NORTH - EASTERN TASMANIA LOCATION MAP

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

AUSTRALIAN ANGLO AMERICAN LTD.

E.L. 28/76

Annual Report to the Department of Mines
for 12 months from 8/3/82 to 7/3/83.

1. INTRODUCTION

Australian Anglo American Prospecting Pty. Ltd. and the Triako group of companies are exploring the Ringarooma Valley and the Scolock Lead under a Joint Venture agreement. The exploration tenements involved in the Joint Venture are E.L.28/76, E.L.2/77 and A.P.1/80. The location of these tenements is shown on the attached plan. It is intended to investigate these tenements as much as possible as one prospecting entity.

2. GEOMORPHOLOGICAL SURVEY

A geomorphological survey was conducted over most of north-east Tasmania to endeavour to obtain a better understanding of the Tertiary geological history and consequently, the history of sedimentation as it pertains to the formation of tin placers. The survey was based on Landsat imagery and, being regional in concept, had partial and indirect relevance to E.L.28/76. Details of the results of the survey are reported in six monthly report to the 12th May, 1982 to the Tasmanian Mines Department for E.L.5/81.

3. MUTUAL MINE AREA

A surface examination was made of the alluvials in the vicinity of the old Mutual Mine, to gauge the potential of the area for further prospecting. The examination showed:-

- (1) Most of the obvious Tertiary alluvials appear to have been worked, and are held as mining leases, so are excluded from E.L.28/76.
- (2) The Mutual Lead appears to extend towards the north west under the basalt capping north of the Ringarooma River. Prospecting by drilling may be warranted to test the alluvials for tin mineralisation before they disappear below the basalt cover. Prospecting may also be warranted below a shallow cover of basalt.

031
4. DRILLING

The percussion drilling in the Arba area was scheduled for the January- March period, using two rigs. The discovery of an extension to the Pioneer Lead (on E.L.2/77), led to an extension to the drilling programme there, and one rig has been retained for further drilling. Consequently, the overall drilling programme has been rescheduled, and the start-up of the Arba drilling, with only one rig, has been delayed.

Drilling at Arba commenced during the last week in February. Hole AAL (N43580 E63592) is redrilling the Mines Department 1937 No. 4 hole which did not reach basement but which contained tin in the lower levels of the hole. AAL was abandoned at 38m. because of casing failure down the hole. Another attempt to drill the hole is in progress.

The drilling programme at Arba is designed to further define the basement structures and to test for basal mineralisation, and to determine the grade and extent of the perched mineralisation in the shingle bed indicated by the Spring 1981 drilling.

The programme includes:-

- A. To further define and test the basement structure.
 - A-1 Redrill the Mines Department 1937 No. 4 hole. The hole AAL (Repeat) is drilling this hole at present.
 - A-2 Two holes (N43560 E62880 and N43400 E62880) are designed to close off the possibility of a north-westerly outlet to the Branxholm Creek Lead from under Arba Hill, and also to verify auger drilling by Utah Development Company to the north.
 - A-3 One hole (N43950 E63300) to test the deepest part of the system for mineralisation.
- B. To test the mineralised shingle layer, nine holes will be drilled at 50m. intervals on the line between the Roma (N43700 E63550) and Groper (N43750 E63000) mine ponds, each hole to a depth of about 12 metres. The central hole may be extended to basement.

032

3.

5. FUTURE PROGRAMME

- 5.1 Completion of the delayed drilling programme for the north of Arba Hill, followed by evaluation of the results of this drilling to determine what further exploration is warranted.
- 5.2 Critical evaluation of the prospectivity of the Ringarooma River Flats, paying particular attention to possible extensions to the Valley, Cascade and Mutual Leads, to determine what further exploration is warranted.

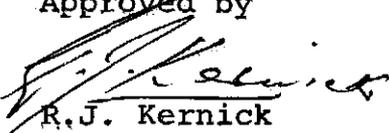
6. EXPENDITURE

A statutory declaration of the expenditure incurred is attached.



Bruce D. Mellor,
Divisional Geologist,
TASMANIA.

Approved by



R.J. Kernick

Exploration Manager.

033

I, OSVALDO TIBURCIO FILOMENO FONSECA of 56 PARTRIDGE CRESCENT FRANKSTON in the State of Victoria, Chief Accountant, DO SOLEMNLY AND SINCERELY DECLARE as follows:

That in the ten months ended 31 January 1983 we have expended \$15 953 on Exploration Licence 28/76, analysed as follows -

	\$
(a) Operational staff costs	1 999
(b) General operational expenses	200
(c) Transport and travel	199
(d) Assays	-
(e) Tenement costs	396
(f) Contractors	100
(g) Specialist services	10 230
(h) Drilling and treatment	-
(i) Capital expenditure	-
(j) Administration costs	2 829
	<u>15 953</u>

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

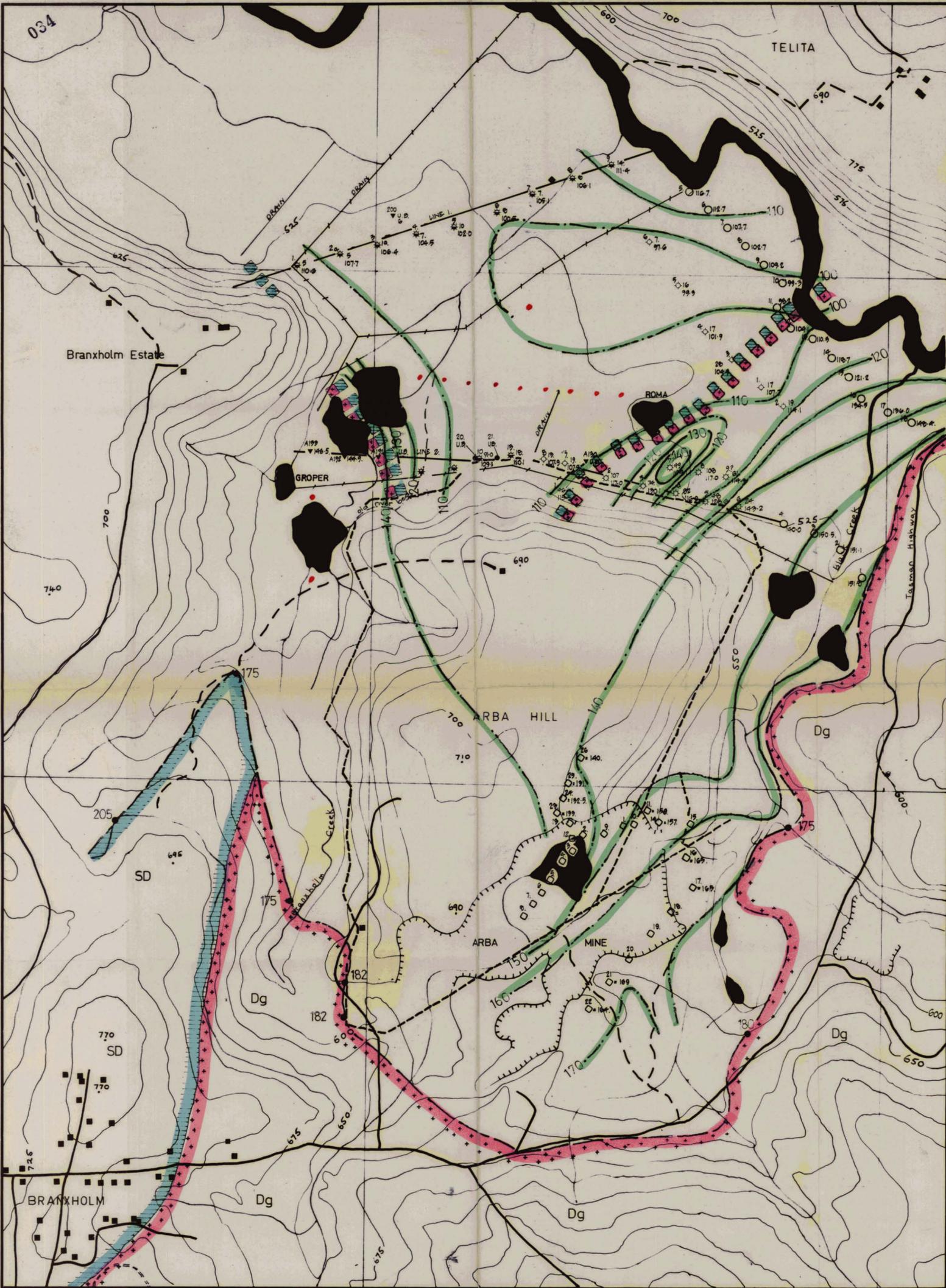
DECLARED AT Melbourne)
)
 in the State of Victoria)
)
 this Fourth day of)
)
 March 1983)

O. Fonseca

Before me:

[Signature]

A Commissioner for taking Declarations and Affidavits under the Evidence Act 1958.



TITLE : 578035 563000 mE **BASEMENT GEOLOGY AND CONTOUR INTERPRETATION** 564000 mE

BASEMENT GEOLOGY AND CONTOUR INTERPRETATION

- MATHINNA GROUP
- GRANITE ROCKS
- Basement Contours (10m intervals) (two levels of confidence)
- Limits of bedrock outcrop
- Spot heights (m)
- PROPOSED DRILL HOLES

AUSTRALIAN ANGLO AMERICAN LTD. - AMDEX MINING LTD. EXPLORATION.

DRILL HOLE LOCATION MAP - ALL DRILLING - ARBA AREA - BRANXHOLM N.E. TASMANIA.

Drill Hole Positions Showing : Company, Hole Number, Grade and Basement R.L.

Drilling Company Legend

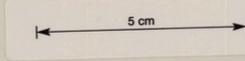
- ★ AUSTRALIAN ANGLO AMERICAN - 1961.
- TASMANIAN DEPARTMENT OF MINES - 1976-77.
- UTAH DEV. CO. ROTARY HOLES - 1969.
- ▼ UTAH DEV. CO. AUGER HOLES - 1969.
- ▽ UTAH DEV. CO. PERCUSSION HOLES - 1969.
- ◇ BRISBANE CONS. N.L. HAND PLANT - 1970.
- ☆ TASMANIAN DEPARTMENT OF MINES - 1997.
- ◆ TASMANIAN DEPARTMENT OF MINES - 1991.

Drill hole Legend

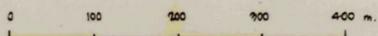
- 2. ——— DRILL HOLE NUMBER.
- 107 GRADE SURFACE TO BASEMENT. gS=0.2/m³
- 117.0 BASEMENT R.L. (m)

General Information

- CROSS SECTION (FIGURE 9). ORIENTATION.
- BOUNDARIES OF MINERAL LEASE 100 P/A - ARBA. TIN PTY. LTD.
- BUILDINGS.
- OLD MINE FACES.
- FENCE LINES (SURVEYED).
- GRID: APPROXIMATE. A.M.S.



CONTOUR INTERVALS : 25 FEET.
DATE : 17.12.01.
SCALE : 1 : 5,000.



DRAWN : d.j. DATA : R. MUNRO. 83-1972.

TAS-10-17
FIGURE 6.