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E.L. 19/77 GREAT NORTHERN PLAIN
AND
CONSOLIDATED LEASE 42M/76
QUARTERLY EXPLORATION PROGRESS REPORT
FOR PERIOD ENDING 11 JULY, 1982
HELLYER MINING & EXPLORATION PTY. LTD.
August, 1982

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724003

TABLE I
CHURN DRILL HOLE GRADES

Hole No.	Total Depth (m)	Overburden		Payzone		Total Internal	
		Depth (m)	Grade (g/m ³ Sn)	Depth (m)	Grade (g/m ³ Sn)	Depth (m)	Grade (g/m ³ Sn)
GNP 123	19.0	14.5	3.7	2.0	37.3	16.5	7.8
BL 7-00	23.5	12.0	2.9	9.0	138.7	21.0	61.1
-02	21.0	16.0	2.3	4.0	233.9	20.0	48.6
-04	21.0	17.0	5.0	3.0	251.0	20.0	41.9
-06	21.0	14.0	2.2	6.0	69.0	20.0	22.2
BL 8-02	18.0	11.0	4.8	3.5	174.7	14.5	45.8
-04	20.0	11.0	4.2	8.5	72.0	19.5	33.8
-06	19.0	12.0	2.2	6.0	11.3	18.0	5.2
BL 9-03	16.0	14.0	2.3	2.0	96.7	16.0	14.1
-05	18.0	14.0	4.6	4.0	251.5	18.0	59.5
-07	17.5	12.0	2.6	5.5	198.1	17.5	64.1
BL10-00	18.5	8.0	7.9	8.5	139.8	16.5	75.8
-02	19.0	13.5	6.6	4.0	182.5	17.5	46.8
-04	18.0	12.0	3.5	4.5	201.7	16.5	57.5
-06	18.0	14.0	3.5	3.5	184.5	17.5	39.7
-08	19.0	15.0	3.8	3.0	245.9	18.0	44.2
-10	19.5	12.0	4.2	6.0	281.2	18.0	96.5
-12	20.0	12.0	3.8	6.5	236.4	18.5	85.5
-16	20.0	15.0	1.9	4.5	189.4	19.5	45.2
BL11-02	17.0	10.0	2.8	5.5	138.0	15.5	50.8
-04	17.0	12.0	4.2	5.0	268.7	17.0	82.0
-06	21.0	14.0	2.8	5.5	162.1	19.5	47.7
-08	20.5	14.0	11.9	5.5	324.0	19.5	99.9
-10	19.0	14.0	2.6	5.0	103.7	19.0	29.2
-12	16.5	14.0	2.1	2.0	14.3	16.0	3.6
-13	18.0	14.0	1.4	3.0	697.1	17.0	124.2
-14	20.5	12.0	1.8	8.0	522.0	20.0	209.9
-16	21.5	14.0	5.4	6.5	189.8	20.5	63.8
-18	17.0	12.0	1.9	3.5	77.5	15.5	19.0
BL12-02	19.5	14.0	15.5	5.5	273.9	19.5	88.3
-04	21.0	11.0	8.0	8.0	125.0	19.0	57.4
-05	20.0	10.5	7.5	7.5	201.9	18.0	89.1
-06	18.5	14.0	3.5	3.5	193.6	17.5	42.4
-07	16.0	10.0	4.0	4.0	256.7	14.0	77.6
-08	16.0	12.5	2.0	2.0	171.0	14.5	25.3
-13	21.0	13.0	7.9	7.0	137.7	20.0	53.3
-15	16.0	11.0	11.9	4.0	173.1	15.0	54.9
-17	17.0	8.0	4.1	7.5	140.7	15.5	70.2
BL13-00	17.0	14.0	5.1	3.0	11.9	17.0	6.3
-02	22.0	15.0	5.2	5.0	113.4	20.0	32.3
-04	24.5	14.0	6.4	8.5	231.4	22.5	91.4
-06	15.0	6.0	2.5	7.5	29.4	13.5	17.4
-08	15.0	4.0	1.3	9.0	70.6	13.0	49.2
BL14-10	14.5	4.0	4.2	9.0	13.8	13.0	10.9
-12	18.0	6.0	23.8	12.0	56.7	18.0	45.8
-14	18.0	6.0	10.3	10.5	58.6	16.5	41.0
-16	22.0	14.0	9.2	7.5	261.1	21.5	97.1
-18	16.5	6.0	3.4	10.0	70.5	16.0	45.3
-20	17.5	10.0	3.9	6.5	117.6	16.5	48.7
SB -01	30.5	12.0	1.7	16.5	161.6	28.5	94.3
-02	27.5	18.0	3.1	7.5	166.5	25.5	51.2
-03	33.0	22.0	3.2	9.0	145.5	31.0	44.5
-04	28.0	20.0	2.7	8.0	6.9	28.0	3.9

1. INTRODUCTION

Hellyer and its parent company, SANTOS Ltd, have continued exploration on the Great Northern Plain area throughout the three months ending 11-07-82 in order to take advantage of access available prior to winter flooding.

SANTOS submitted application for Ringarooma River E.L.A. 17/82 in May, 1982. This licence lies within the boundary of E.L. 19/77 and the Company believed that exploration in the area was possible under authority to prospect 4/80 pending action by the Australian Heritage Commission to place a part of the area in the Register of the National Estate (see Figure 1.).

Exploration drilling was conducted outside the Heritage Commission's prescribed zone but within the area formerly known as A to P 4/80, but has now been halted until an objection to the granting of the exploration licence has been annulled.

This report includes reference to all drilling carried out on the Great Northern Plain for the period 12-04-82 to 11-07-82 in order to provide a timely and progressive record of exploration in the area, although strictly speaking, not all holes are located within E.L. 19/77.

The current term of E.L.19/77 expires on 10 October,1982.

2. WORK COMPLETED

2.1 Churn Drilling

Churn drilling has utilized up to four rigs and 53 holes totalling 1038.0 metres were completed during the reporting period. Drill hole locations are shown on Figure 2., together with summary assay results.

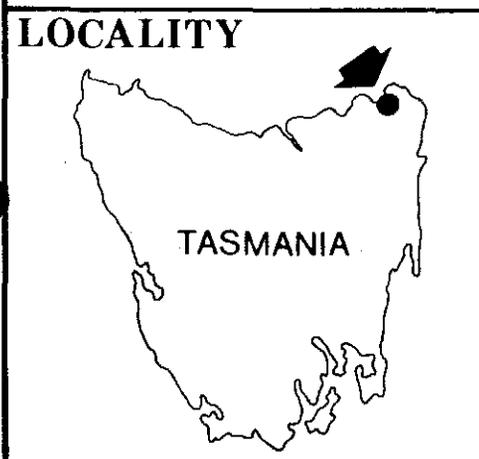
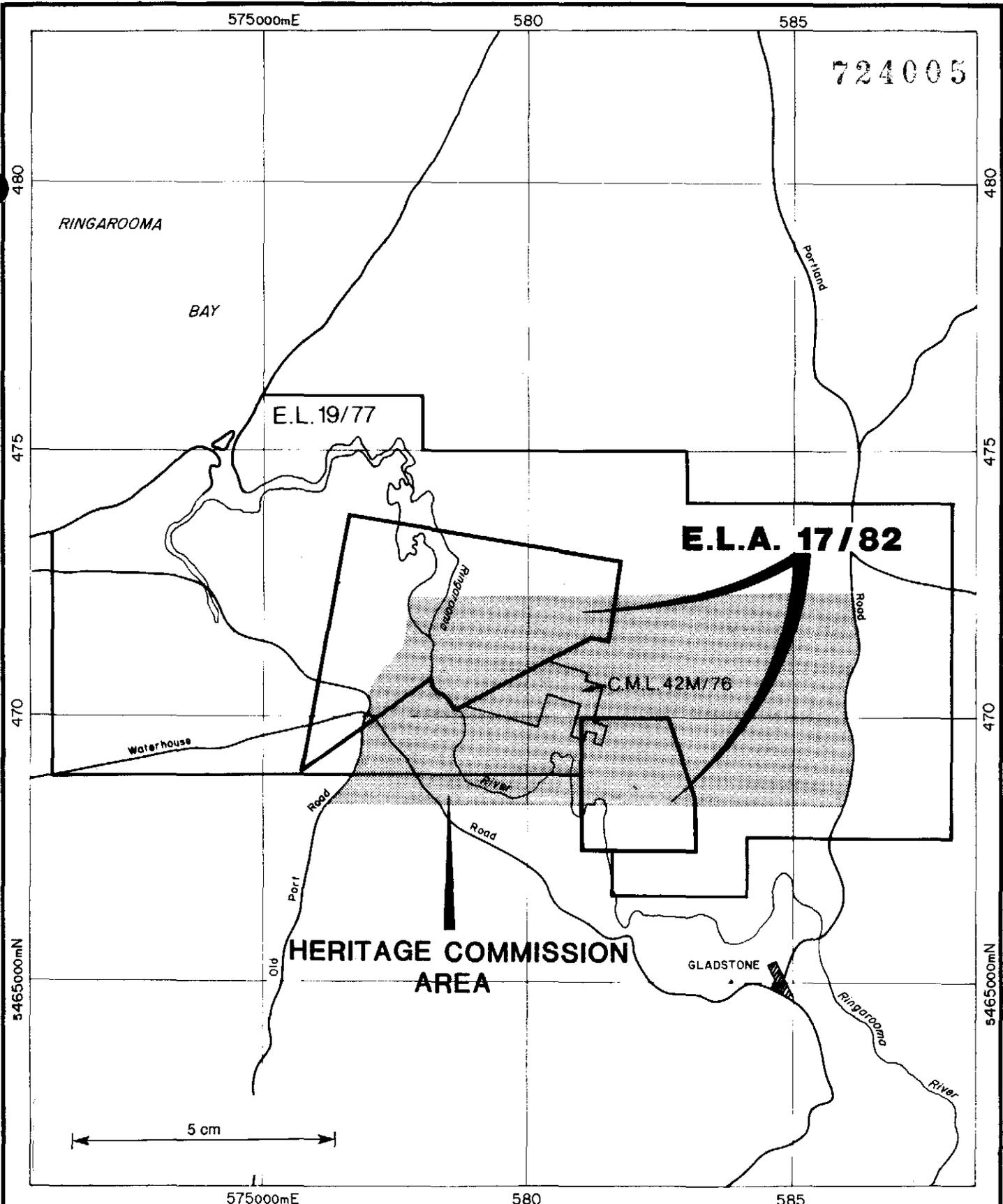
Details of overburden depth and grade, pay zone depth and grade and total depth and grade (to base of pay zone) are listed in Table I opposite.

Complete assay data are contained in Appendix I.

The drilling results to date indicate that tin grades are generally patchy with no clearly discernible zones of higher grade mineralization.

However, a curvilinear zone which includes holes 78, 15A, 16 & 17 on BL 3, holes 115-120 on line BL 6, holes 13, 14 & 16 on BL 11 and holes 16, 18 & 20 on BL 14 can be tentatively outlined, in which the indicated grade is approximately 145 g/m^3 70% SnO_2 over the total interval to the base of the pay zone. The drill hole distribution is too wide to make accurate assessments of volume and grade at present.

$$600 \text{ gm/m}^3 \approx 1 \text{ lb/yd}^3$$



SANTOS LIMITED

NORTH EAST TASMANIA

TENEMENT LOCATION MAP

SCALE 1:100000

0 2 4 6
KILOMETRES

FIG 1

TABLE II
BULK SAMPLE DRILL HOLE GRADES

Hole No.	Overburden		Payzone		Total	Comments	
	m	g/m ³ Sn	m	g/m ³ Sn			m
CNP1	0-6	0.0	6-13.8	212.6	0-13.8	120.2	Very unreliable drilling (first hole).
GNP16	0-6	4.7	6-14	711.9	0-14	408.8	Low recovery.
CDH2	0-14.1	0.5	14.1 - 20.54	80.2	0-20.54	25.5	Sampling may be unreliable. Low recovery.
GNP13	0-10	2.6	10-26	183.0	0-26	113.6	
CDH4	0-7.5	5.5	7.5 - 16.7	130.1	0-16.7	74.2	Low recovery.
GNP25	0-8	5.7	8-16	44.7	0-16	25.2	
CDH5	0-11.5	0.8	11.5 - 17.9	148.1	0-17.9	53.5	Not properly bottomed.
GNP33	0-12	1.2	12-19	201.1	0-19	74.9	
CDH6	-		-		0-8.6	29.2	Just bottomed. Very low recovery.
MG-2	-		-		0-9.0	53.5	
CDH7	0-7	17.7	7-8	167.0	0-8	36.4	
GNP86	0-6	13.3	6-9.5	152.1	0-9.5	64.4	
CDH8	0-15.5	6.4	15.5 - 18.5	456.5	0-18.5	79.4	Dept. Mines Drilling. Hole location not known accurately.
L17-20	0-7.6	5.4	7.6 - 16.8	300.9	0-16.8	167.2	
CDH9	0-12	1.0	12-19	173.3	0-19	64.5	Just bottomed. Low recovery.
GNP95	0-13	6.4	13-19	81.9	0-19	30.2	

2.2 Calweld Bulk Sample Drilling

Assay data are contained in Appendix II. Summary details of overburden depth and grade, pay zone depth and grade and total interval depth and grade are listed in Table II opposite.

Table II also lists comparable data for the churn drill hole located adjacent to the corresponding bulk sample hole. The comparison indicates wide variations between the churn and bulk sample results which cannot be attributed to any singular or simple cause. Several factors, including poor sampling technique and poor volume recovery in either the churn or bulk sample hole and the intrinsic variability of distribution of alluvial mineralization, can be cited as explanation for much of the variation. It should be noted that the exact location of churn hole L17-20 is unknown and that the grade in CDH8 therefore would not necessarily be expected to equate with the grade obtained in L17-20.

Another contributing factor is the reliability (or otherwise) of the tin assays. Split concentrates from holes CDH2, CDH4, CDH5 and CDH6 were assayed at both Amdex (where all churn drill hole samples are also assayed) and at other commercial assay laboratories (see Appendix II). A comparison of the data shows that the splits assayed at Amdex returned values from 6% to 50% lower than the value for the corresponding splits assayed at the commercial laboratory.

2.3 Metallurgical Studies

Treatment of the bulk sample hole pay zone material indicates that oversize (+ 8mm) comprises approximately 18% of the total sample volume.

The results of mineralogical and size analysis of samples from holes CDH2, CDH4, CDH5 and CDH6 are contained in Appendix II.

The mineralogical work confirms that the minerals previously known or expected to occur with the cassiterite are present, including pyrite, topaz, ilmenite, zircon, rutile, tourmaline and garnet.

The results of the tin size analyses are summarized in Table III below:

TABLE III
TIN SIZE DISTRIBUTION (%)

Size (um)	Readings		Amdel	
	CDH2	CDH6	CDH4	CDH5
+1000	0.6	1.5		
+ 500	1.5	3.6	1.5	2.8
+ 250	18.7	20.2	10.1	29.8
+ 150	69.6	55.9	60.2	50.2
- 150	9.6	18.8		
+ 75			28.0	17.1
- 75			0.1	0.1

Approximately 60% of the cassiterite falls within the range 150-250 um while the bulk of the remainder is contained in the intervals 315- 250 um and 75-150 um. This distribution is similar to size distributions obtained from other sampling in the area (e.g. Mines Department, Dorset Tin, Preussag) and presents no obvious recovery problems.

2.4 Hydrological Investigations

The first attempt to determine the stability of the water table in the Fosters Marsh - Bowlers Lagoon area was unsuccessful as the pumping site yielded insufficient water inflow.

A second attempt was made to pump from drill hole number BL11-13, using a submersible pump and measuring the water table in holes along the drill-line. The capacity of the pump (approximately 2000 g.p.h.) was insufficient to alter the water table and the test was eventually abandoned when the pump failed.

Water table elevations measured at the end of May showed that the water table was located between 0.0 and 3.0 metres below the surface over much of the marsh area. The water table generally rises close to the surface adjacent to the Ringarooma River and towards the eastern margin of the marsh area.

2.5 Environmental Studies

Preliminary environmental studies have been completed, covering investigation of current and historical land use, vegetation, heritage value, potential socio-economic impact of development and Government requirements for future assessment. Complete details are contained in Appendix III.

Advice concerning expected rehabilitation requirements and procedure has been obtained from consultant Mr. H. Bulter and this advice is summarized in telex form in Appendix III.

2.6 Land Titles Search

Land titles search over the main area of interest has been conducted by Messrs Piggott, Wood and Baker of Hobart and their findings are included in Appendix IV.

All the ground is privately held and all mineral rights are vested with the Crown, except for two large lots in the central part of the area where the rights to all minerals other than gold and silver are held by the land owner (Cascade Brewery Co. Ltd.).

2.7 Preliminary Feasibility Study

Assessment of all geological, metallurgical, engineering, legal and environmental data is continuing. This assessment together with formulation of preliminary mine plans and cash flow studies are being compiled to form a preliminary feasibility study.

The present drill hole distribution does not permit definition of better than possible and potential category resource estimates and so the study is of a preliminary nature.

3. PROPOSED WORK

3.1 Churn Drilling

Churn drilling will continue as tenement status and access conditions permit. Future drilling will utilize sand suction pumps (rather than bailers) in an effort to improve sample recoveries and grade determination accuracy.

3.2 Check Assay Work

Selected drill sample concentrates will be split and assayed at Amdex and by commercial laboratories and/or A.M.D.E.L. in order to further assess the accuracy of Amdex assay techniques.

3.3 Environmental Investigations

Further environmental studies will be undertaken. The principal aspects will be vegetation, hydrological and faunal surveys.

3.4 Preliminary Feasibility Studies

Investigation and assessment of available development options and economic assessment of the project will continue.

4. EXPENDITURE

Expenditure during the 3 months ending 30 June, 1982 has been as follows:

	\$
Salaries - Adelaide	55
Contract Personnel	9321
On Costs	17
Australian Travel and Accomodation	9014
Other Employee Benefits	1073
Professional Services	3528
Labour and Material within Licence	10076
Transportation - Materials	301
Direct Purchase	29
Motor Vehicles - Rental	212
Rented Equipment	372
Surveying	3120
Geological/Geochemical Services	18244
Access and Site Preparation	9240
Drilling Services	52634
Laboratory Services	10482
Utilities	28
	<hr/>
<u>TOTAL</u>	\$ 127746
	<hr/>

APPENDIX I

CHURN DRILL HOLE ASSAY DATA

AMDEX MINING LIMITED

Laboratory *grades transferred to Ellwood tin log.*
SHEET No 0919

GENERAL SAMPLE DESCRIPTION

State *TAS* Project Name *G-N PLAINS* Project No. Sampled by *S. MOORE* Date *15/4/82*

SAMPLE NUMBER	LOCATION/DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn
	<i>G.N.P. 123</i>	<i>To ilmenite</i>	<i>0</i>	<i>1</i>	<i>195.4</i>	<i>0.01</i>
		<i>ilmenite.</i>	<i>1</i>	<i>2</i>	<i>125.6</i>	<i>0.01</i>
		"	<i>2</i>	<i>3</i>	<i>117.7</i>	<i>0.01</i>
		"	<i>3</i>	<i>4</i>	<i>271.0</i>	<i>0.01</i>
		"	<i>4</i>	<i>5</i>	<i>121.9</i>	<i>0.02</i>
		"	<i>5</i>	<i>6</i>	<i>157.0</i>	<i>0.02</i>
		"	<i>6</i>	<i>6.50</i>	<i>137.2</i>	<i>0.03</i>
		"	<i>6.50</i>	<i>7</i>	<i>112.2</i>	<i>0.03</i>
		"	<i>7</i>	<i>7.50</i>	<i>171.4</i>	<i>0.03</i>
		"	<i>7.50</i>	<i>8</i>	<i>130.6</i>	<i>0.02</i>
		"	<i>8</i>	<i>8.50</i>	<i>216.4</i>	<i>0.01</i>
		"	<i>8.50</i>	<i>9</i>	<i>123.2</i>	<i>0.02</i>
		"	<i>9</i>	<i>9.50</i>	<i>130.4</i>	<i>0.01</i>
		"	<i>9.50</i>	<i>10</i>	<i>318.7</i>	<i>0.01</i>
		"	<i>10</i>	<i>10.50</i>	<i>116.8</i>	<i>BLD</i>
		"	<i>10.50</i>	<i>11</i>	<i>105.0</i>	<i>0.01</i>
		"	<i>11</i>	<i>11.50</i>	<i>175.6</i>	<i>BLD</i>
		"	<i>11.50</i>	<i>12</i>	<i>108.6</i>	<i>BLD</i>
		"	<i>12</i>	<i>12.50</i>	<i>107.3</i>	<i>0.01</i>
		"	<i>12.50</i>	<i>13</i>	<i>120.7</i>	<i>0.01</i>
		<i>very fine to tin ilmenite</i>	<i>13</i>	<i>13.50</i>	<i>137.7</i>	<i>0.06</i>
		<i>to tin ilmenite pyrite.</i>	<i>13.50</i>	<i>14</i>	<i>113.8</i>	<i>0.13</i>
		<i>very fine to tin pyrite</i>	<i>14</i>	<i>14.50</i>	<i>147.7</i>	<i>0.03</i>
		"	<i>14.50</i>	<i>15</i>	<i>185.1</i>	<i>0.10</i>
		<i>to tin pyrite</i>	<i>15</i>	<i>15.50</i>	<i>140.1</i>	<i>0.20</i>

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:
Attention:

Remarks

Detection limits
Place analysed Date analysed
Analyst

7224012

GENERAL SAMPLE DESCRIPTION

State TAS Project Name C. N. PLAINS Project No. _____ Sampled by S. MOORE Date 27/4/82

SAMPLE NUMBER	LOCATION / DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	weight g.	% Sn			
	B.L. - 7/00	To ilmenite.	0	2	98.4	0.01			
		ilmenite.	2	4	95.0	0.06			
		"	4	6	126.3	0.04			
		"	6	8	90.0	0.05			
		"	8	10	97.2	0.03			
		"	10	12	90.0	0.05			
		Small amount tin, ilmenite, Blackjack	12	14	90.0	2.41			
		" " " " " "	14	14.50	105.4	1.61			
		Small amount tin, ilmenite	14.50	15	97.4	1.02			
		" " " " " "	15	15.50	105.7	1.59			
		" " " " " "	15.50	16	102.6	1.09			
		To tin, ilmenite, Blackjack	16	16.50	101.5	0.34			
		" " " " " "	16.50	17	113.7	0.18			
		very fine to tin, ilmenite	17	17.50	109.9	0.18			
		Small amount tin, ilmenite, Blackjack	17.50	18	115.5	1.46			
		" " " " " "	18	18.50	113.5	2.01			
		Tin, ilmenite, Blackjack	18.50	19	108.2	2.14			
		" " " " " "	19	19.50	88.1	1.82			
		Small amount tin, ilmenite, Blackjack	19.50	20	97.5	1.12			
	" " " " " "	20	20.50	99.7	0.78				
	very fine trace of tin, pyrite	20.50	21	132.7	0.17				
	" " " " " "	21	21.50	110.6	0.10				
	pyrite	21.50	22	113.3	0.04				
	" " " " " "	22	22.50	116.9	0.03				
	" " " " " "	22.50	23.5	111.5	BLD				

Invoice and 2 copies of results to Amdex Mining Ltd. P.O. Box 147, North Sydney N.S.W. 2060

One copy of results to: _____

Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

724014

grams alluvial tin log.

GENERAL SAMPLE DESCRIPTION

SHEET No 09

0936

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 29/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT g	% Sn			
	<u>BL-7/02</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>87.2</u>	<u>0.01</u>			
		<u>ilmenite</u>	<u>2</u>	<u>4</u>	<u>88.9</u>	<u>0.03</u>			
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>104.1</u>	<u>0.05</u>			
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>100.0</u>	<u>0.06</u>			
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>90.3</u>	<u>0.05</u>			
		<u>ilmenite</u>	<u>10</u>	<u>12</u>	<u>116.4</u>	<u>0.03</u>			
		<u>" "</u>	<u>12</u>	<u>14</u>	<u>119.6</u>	<u>0.02</u>			
		<u>" "</u>	<u>14</u>	<u>16</u>	<u>115.1</u>	<u>0.03</u>	<u>0.15</u>	<u>0.03</u>	
		<u>very fine to tin ilmenite</u>	<u>16</u>	<u>17</u>	<u>116.9</u>	<u>0.03</u>	<u>0.15</u>		
		<u>Small amount tin ilmenite</u>	<u>17</u>	<u>17.50</u>	<u>106.6</u>	<u>0.15</u>	<u>1.15</u>		
		<u>tin, gold, ilmenite, Blackjack</u>	<u>17.50</u>	<u>18</u>	<u>74.3</u>	<u>4.15</u>	<u>3.92</u>		
		<u>" " " " "</u>	<u>18</u>	<u>18.50</u>	<u>85.3</u>	<u>3.92</u>	<u>2.34</u>		
		<u>" " " " "</u>	<u>18.50</u>	<u>19</u>	<u>84.5</u>	<u>2.30</u>			
		<u>tin ilmenite Blackjack</u>	<u>19</u>	<u>19.50</u>	<u>111.5</u>	<u>4.89</u>			
		<u>very fine to tin Pyrite</u>	<u>19.50</u>	<u>20</u>	<u>210.0</u>	<u>0.65</u>			
		<u>Large amount Pyrite</u>	<u>20</u>	<u>21</u>	<u>194.7</u>	<u>0.15</u>			

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 Amdex Mining Ltd.
 P.O. Box 147,
 North Sydney N.S.W. 2060

One copy of results to:

Attention: _____

Remarks

Detection limits

Place analysed

Date analysed

Analyst

724015

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. DELAINS Project No _____ Sampled by S. MOURE Date 1-5-82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	% Sn			
	<u>BL-7/04</u>	<u>Ilmenite.</u>	<u>0</u>	<u>2</u>	<u>59.7</u>	<u>0.02</u>			
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>64.6</u>	<u>0.05</u>			
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>86.1</u>	<u>0.03</u>			
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>93.3</u>	<u>0.05</u>			
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>108.1</u>	<u>0.05</u>			
		<u>" "</u>	<u>10</u>	<u>12</u>	<u>96.2</u>	<u>0.03</u>			
		<u>Ilmenite.</u>	<u>12</u>	<u>14</u>	<u>133.8</u>	<u>0.06</u>			
		<u>" "</u>	<u>14</u>	<u>16</u>	<u>114.0</u>	<u>0.18</u>			
		<u>To Tin ilmenite.</u>	<u>16</u>	<u>17</u>	<u>100.7</u>	<u>0.22</u>			
		<u>Small amount Tin ilmenite.</u>	<u>17</u>	<u>17.50</u>	<u>95.3</u>	<u>0.64</u>			
		<u>Tin, ilmenite, black pych.</u>	<u>17.50</u>	<u>18</u>	<u>98.5</u>	<u>3.04</u>			
		<u>Tin, Gold, ilmenite, Black pych.</u>	<u>18</u>	<u>18.50</u>	<u>75.4</u>	<u>1.90</u>			
		<u>" " " "</u>	<u>18.50</u>	<u>19</u>	<u>106.4</u>	<u>4.86</u>			
		<u>To Tin ilmenite.</u>	<u>19</u>	<u>20</u>	<u>112.5</u>	<u>1.02</u>			
		<u>very fine to Tin ilmenite.</u>	<u>20</u>	<u>21</u>	<u>67.1</u>	<u>0.33</u>			

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One copy of results to: _____
 Attention _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
 Analyst _____

724016

GENERAL SAMPLE DESCRIPTION

SHEET No 0971

State TAS Project Name C-N.P.L.P.W.S. Project No. _____ Sampled by S. MOORE Date 4/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g	% Sn	
	BL-7/06	ilmenite	0	2	95.9	0.02	
		ilmenite	2	4	101.1	0.03	
		"	4	6	93.2	0.05	
		"	6	8	87.1	0.04	
		"	8	10	82.4	0.04	
		"	10	12	114.0	0.11	3.92
		very fine Tr Tin, ilmenite	12	14	95.1	0.16	4.48
		" " " " "	14	14.50	90.0	0.14	25.2
		" " " " "	14.50	15	82.3	0.14	
		" " " " "	15	15.50	91.5	0.15	
	Tr Tin, ilmenite	15.50	16.50	105.5	0.82		
	" " "	16.50	17.50	80.8	0.91		
	Small amount Tin ilmenite, Blackish	17.50	18.50	95.2	1.42		
	Tin ilmenite, Blackish	18.50	19	84.8	2.73		
	Small amount Tin, Blackish, Pyrite	19	19.50	67.3	1.84		
	Tr Tin, pyrite	19.50	20	91.3	0.83	84.2	
	very fine Tr Tin, Pyrite	20	21	78.8	0.29	14.2	

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North Sydney N.S.W. 2060

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Attention: _____

Remarks

Detection limits _____
Place analysed _____ Date analysed _____
Analyst _____

724017

GENERAL SAMPLE DESCRIPTION

SHEET No 0939

State TAS Project Name GN PLAINS Project No. _____ Sampled by S. MOORE Date 3/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g.	% Sn	% Zn
	B6-8/02	Fe ilmenite	0	2	100.0	0.07	0.04
	"	"	2	4	126.1	0.04	0.03
		ilmenite	4	6	129.2	0.07	0.04
		"	6	8	135.7	0.05	0.07
		"	8	10	139.9	0.04	0.09
		ilmenite	10	10.50	107.6	0.64	0.18
		Tin, ilmenite	10.50	11	71.9		0.21
		Small amount tin, ilmenite	11	11.50	96.9		1.09
		"	11.50	12	104.1		1.25
		Tin, ilmenite	12	12.50	112.3		2.42
		Tin, ilmenite, black jack	12.50	13	112.3	112.3	2.76
		Tin, ilmenite, black jack	13	13.50	94.2		1.63
		Small amount tin, ilmenite	13.50	14	105.4		0.68
		Tin, ilmenite	14	14.50	113.5		0.15
		very fine tin, ilmenite	14.50	15	97.0		0.10
		ilmenite, pyrite	15	15.50	97.4		0.05
		"	15.50	16	86.3		0.03
		"	16	16.50	125.1		0.03
		"	16.50	17	111.1		0.01
		Pyrite?	17	17.50	145.0		BLD
		"	17.50	18	141.9		"

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North Sydney N.S.W. 2060

One copy of results to:

Attention

Remarks

Detection limits

Place analysed

Date analysed

Analyst

7224018

Grades transferred to alluvial field log

GENERAL SAMPLE DESCRIPTION

SHEET No 0944

State TAS Project Name CAN PLAINS Project No. _____ Sampled by S MOORE Date 6/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn
	BL-8/04	To aluminite	0	2	126.7	0.03
		" "	2	4	116.6	0.05
		" "	4	6	127.1	0.05
		" "	6	8	104.0	0.04
		aluminite	8	10	103.0	0.07
		To Tin aluminite	10	11	79.0	0.32
		Tin aluminite Blackish	11	12	116.6	1.60
		Small amount of tin with Blackish	12	12.50	124.5	1.63
		Small amount Tin aluminite Blackish	12.50	13	96.5	0.89
		Small amount Tin aluminite Blackish	13	13.50	123.4	1.13
		" " " "	13.50	14	117.0	0.93
		" " " "	14	14.50	106.6	0.77
		" " " "	14.50	15	127.6	0.97
		" " " "	15	15.50	96.4	0.33
		To Tin aluminite	15.50	16	116.2	0.18
		" " "	16	16.50	106.6	0.17
		" " "	16.50	17	76.1	0.13
		very fine to Tin aluminite	17	17.50	105.3	0.12
		pyrite	17.50	18	121.5	0.05
		"	18	18.50	121.1	0.04
	"	18.50	19	104.5	0.05	
	To coarse Tin Pyrite	19	19.50	76.6	1.30	
	Tin To coarse Tin Pyrite	19.50	20	106.6	0.25	

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Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724019

GENERAL SAMPLE DESCRIPTION

SHEET No 0947

State TRJ Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 11/5/82 0947

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g.	% Sn
	BL-8/06	Fin ilmenite	0	2	143.6	0.03
		" "	2	4	104.3	BLD
		ilmenite	4	6	100.0	0.03
		" "	6	8	95.2	0.04
		" "	8	10	125.8	0.04
		" "	10	12	110.0	0.09
		very fine tin ilmenite	12	14	115.4	0.15
		tin ilmenite	14	16	106.1	0.33
		Small amount tin ilmenite	16	17	85.6	0.67
		tin ilmenite Black sand	17	17.50	94.0	0.30
	very fine tin pyrite	17.50	18	125.0	0.11	
	pyrite	18	19	131.5	0.04	

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Amdex Mining Ltd.
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North Sydney N.S.W. 2060

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Attention

Remarks

Detection limits

Place analysed

Date analysed

Analyst

724020

to alluvial run
Field log.

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0955

State TAS Project Name G.A. PLAINS Project No. _____ Sampled by S. MOORE Date 17/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	WEIGHT G.	% S/N	
	Bl- 9/05	ilmenite	0	2	109.5	0.08	
		"	2	4	110.6	0.03	
		ilmenite	4	6	114.7	0.04	
		"	6	8	135.7	0.04	
		ilmenite	8	10	98.6	0.07	
		"	10	12	103.9	0.13	
		Tr. Tin, ilmenite	12	14	100.0	0.19	
		Small amount Tin ilmenite	14	14.50	93.7	1.75	
		Large amount Tin ilmenite Black Jack	14.50	15	123.3	11.42	
		Tin ilmenite Black Jack	15	15.50	117.3	38.43	3.43
	Large amount Tin ilmenite Black Jack	15.50	16	106.4	9.95		
	Small amount Tin "	16	16.50	91.5	1.48		
	Large amount Tin "	16.50	17	91.7	4.95		
	Tin ilmenite Black Jack	17	17.50	93.7	2.16		
	Small amount Tin ilmenite Black Jack	17.50	18	92.6	2.01		

Invoice and 2 copies of results to Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to: _____
Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

724022

GENERAL SAMPLE DESCRIPTION

State TRJ Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 10/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g.	% S.N.
	BL-9/07	<i>Fr ilmenite</i>	0	2	90.0	0.06
		<i>ilmenite</i>	2	4	90.7	0.05
		<i>"</i>	4	6	102.6	0.04
		<i>"</i>	6	8	100.0	0.06
		<i>"</i>	8	10	107.1	0.04
		<i>"</i>	10	12	81.1	0.06
		<i>very fine tin, ilmenite</i>	12	13	85.7	0.25 10.71
		<i>" " " "</i>	13	13.50	86.3	0.14 15.1
		<i>Small amount tin, Gold, ilmenite Blackjack</i>	13.50	14	82.7	1.43
		<i>tin, Gold, ilmenite Blackjack</i>	14	14.50	91.3	2.69
		<i>" " " "</i>	14.50	15	105.8	1.96
		<i>Small amount tin, ilmenite Blackjack</i>	15	15.50	98.7	1.66
		<i>tin, ilmenite Blackjack</i>	15.50	16	81.3	4.75
		<i>Small amount tin, ilmenite, Blackjack</i>	16	16.50	95.1	1.91
		<i>tin, ilmenite, Blackjack</i>	16.50	17	109.3	3.06
		<i>Small amount tin, pyrite</i>	17	17.50	101.7	4.13 350.02

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Attention:

Remarks

Detection limits

Place analysed

Date analysed

Analyst

724023

AMDEX MINING LIMITED

grades transferred to Laboratory
alluvial tin log.

GENERAL SAMPLE DESCRIPTION

SHEET No 0923

State TAS Project Name G N PLAINS Project No. _____ Sampled by S. MOORE Date 20/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn
	<u>BL 10/00</u>	<u>Ilmenite</u>	<u>0</u>	<u>1</u>	<u>94.0</u>	<u>0.04</u>
		<u>" "</u>	<u>1</u>	<u>2</u>	<u>106.5</u>	<u>0.01</u>
		<u>" "</u>	<u>2</u>	<u>3</u>	<u>101.1</u>	<u>0.01</u>
		<u>" "</u>	<u>3</u>	<u>4</u>	<u>104.1</u>	<u>0.03</u>
		<u>" "</u>	<u>4</u>	<u>5</u>	<u>83.2</u>	<u>0.07</u>
		<u>" "</u>	<u>5</u>	<u>6</u>	<u>84.6</u>	<u>0.05</u>
		<u>" "</u>	<u>6</u>	<u>6.50</u>	<u>85.4</u>	<u>0.05</u>
		<u>" "</u>	<u>6.50</u>	<u>7</u>	<u>92.5</u>	<u>0.05</u>
		<u>Very fine black tin ilmenite</u>	<u>7</u>	<u>7.50</u>	<u>103.6</u>	<u>0.18</u>
		<u>Trace of tin</u>	<u>7.50</u>	<u>8</u>	<u>91.0</u>	<u>0.33</u>
		<u>Small amount tin ilmenite</u>	<u>8</u>	<u>8.50</u>	<u>98.7</u>	<u>0.73</u>
		<u>Small amount tin ilmenite</u>	<u>8.50</u>	<u>9</u>	<u>109.5</u>	<u>1.11</u>
		<u>" " " "</u>	<u>9</u>	<u>9.50</u>	<u>109.9</u>	<u>1.62</u>
		<u>" " " "</u>	<u>9.50</u>	<u>10</u>	<u>114.1</u>	<u>1.68</u>
		<u>Tin ilmenite</u>	<u>10</u>	<u>10.50</u>	<u>113.3</u>	<u>3.07</u>
		<u>" "</u>	<u>10.50</u>	<u>11</u>	<u>104.0</u>	<u>2.96</u>
		<u>" "</u>	<u>11</u>	<u>11.50</u>	<u>122.0</u>	<u>2.47</u>
		<u>Small amount tin ilmenite</u>	<u>11.50</u>	<u>12</u>	<u>128.8</u>	<u>0.71</u>
		<u>To tin ilmenite</u>	<u>12</u>	<u>12.50</u>	<u>132.1</u>	<u>0.16</u>
		<u>" " " "</u>	<u>12.50</u>	<u>13</u>	<u>110.0</u>	<u>0.18</u>
		<u>" " " "</u>	<u>13</u>	<u>13.50</u>	<u>97.9</u>	<u>0.15</u>
		<u>" " " "</u>	<u>13.50</u>	<u>14</u>	<u>171.8</u>	<u>0.10</u>
		<u>" " " "</u>	<u>14</u>	<u>14.50</u>	<u>149.0</u>	<u>0.12</u>
		<u>Small amount tin ilmenite Blackish</u>	<u>14.50</u>	<u>15</u>	<u>103.8</u>	<u>1.05</u>
		<u>Small amount tin ilmenite Blackish</u>	<u>15</u>	<u>15.50</u>	<u>148.7</u>	<u>0.33</u>

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Attention: _____

Remarks: _____

Detection limits: _____
Place analysed: _____ Date analysed: _____
Analyst: _____

724024

grades found in Field
to about 100 ppm

GENERAL SAMPLE DESCRIPTION

SHEET No 0924

State TAS Project Name G N PLAINS Project No. _____ Sampled by S. MOORE Date 20/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	WEIGHT g	% Au
	<u>BH-10/00</u>	<u>To Lim, Gold, ilmenite Blackjack</u>	<u>15.50</u>	<u>16</u>	<u>144.0</u>	<u>0.27</u>
		<u>To Lim, ilmenite Blackjack</u>	<u>16</u>	<u>16.50</u>	<u>120.4</u>	<u>0.31</u>
		<u>To Lim pyrite, Blackjack</u>	<u>16.50</u>	<u>17</u>	<u>124.5</u>	<u>0.32</u>
		<u>Pyrite</u>	<u>17</u>	<u>17.50</u>	<u>137.5</u>	<u>0.07</u>
		<u>"</u>	<u>17.50</u>	<u>18</u>	<u>77.3</u>	<u>0.12</u>
		<u>"</u>	<u>18</u>	<u>18.50</u>	<u>90.7</u>	<u>0.14</u>

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Amdex Mining Ltd.
P.O. Box 147,
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One copy of results to: _____
Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724025

AMDEX MINING LIMITED

Grades transferred to alluvial tin log. Laboratory

GENERAL SAMPLE DESCRIPTION

SHEET No 0924

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 21/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g.	% Sn	
	<u>BL-10/02</u>	<u>ilmenite</u>	<u>0</u>	<u>1</u>	<u>112.4</u>	<u>0.02</u>	
	" "	" "	<u>1</u>	<u>2</u>	<u>119.9</u>	<u>BlD</u>	
	" "	" "	<u>2</u>	<u>3</u>	<u>96.9</u>	<u>0.02</u>	
	" "	" "	<u>3</u>	<u>4</u>	<u>98.7</u>	<u>0.04</u>	
	" "	<u>Thin grain Tin</u>	<u>4</u>	<u>5</u>	<u>106.2</u>	<u>0.10</u>	
	" "	<u>Trace of Tin, ilmenite</u>	<u>5</u>	<u>6</u>	<u>120.0</u>	<u>0.10</u>	
	" "	<u>Ilmenite</u>	<u>6</u>	<u>6.50</u>	<u>87.8</u>	<u>0.05</u>	
	" "	" "	<u>6.50</u>	<u>7</u>	<u>113.0</u>	<u>0.06</u>	
	" "	" "	<u>7</u>	<u>7.50</u>	<u>120.5</u>	<u>0.05</u>	
	" "	" "	<u>7.50</u>	<u>8</u>	<u>94.1</u>	<u>0.04</u>	
	" "	<u>ilmenite</u>	<u>8</u>	<u>8.50</u>	<u>119.1</u>	<u>0.03</u>	
	" "	" "	<u>8.50</u>	<u>9</u>	<u>125.8</u>	<u>0.03</u>	
	" "	" "	<u>9</u>	<u>9.50</u>	<u>100.5</u>	<u>0.04</u>	
	" "	" "	<u>9.50</u>	<u>10</u>	<u>120.5</u>	<u>0.03</u>	
	" "	" "	<u>10</u>	<u>10.50</u>	<u>126.3</u>	<u>0.03</u>	
	" "	" "	<u>10.50</u>	<u>11</u>	<u>132.2</u>	<u>0.02</u>	
	" "	" "	<u>11</u>	<u>11.50</u>	<u>196.4</u>	<u>0.02</u>	
	" "	" "	<u>11.50</u>	<u>12</u>	<u>104.2</u>	<u>0.03</u>	
	" "	" "	<u>12</u>	<u>12.50</u>	<u>112.3</u>	<u>0.04</u>	
	" "	" "	<u>12.50</u>	<u>13</u>	<u>130.5</u>	<u>0.02</u>	
	" "	" "	<u>13</u>	<u>13.50</u>	<u>107.8</u>	<u>0.04</u>	
	" "	<u>Small amount Tin, ilmenite</u>	<u>13.50</u>	<u>14</u>	<u>137.9</u>	<u>1.12</u>	<u>1.54</u>
	" "	<u>Small amount Tin, ilmenite, Blachyid</u>	<u>14</u>	<u>14.50</u>	<u>101.0</u>	<u>2.17</u>	<u>2.19</u>
	" "	<u>Small amount Tin, Gold, ilmenite, Blachyid</u>	<u>14.50</u>	<u>15</u>	<u>98.9</u>	<u>1.90</u>	<u>1.88</u>
	" "	" " " " " "	<u>15</u>	<u>15.50</u>	<u>90.6</u>	<u>2.02</u>	<u>1.83</u>

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Attention:

Remarks

Detection limits

Place analysed

Analyst

Date analysed

1224000

GENERAL SAMPLE DESCRIPTION

SHEET No 0928

State TA Project Name G-N PLAINS Project No. _____ Sampled by S. MOORE Date 23/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	% Sn			
	<u>BL-10/04</u>	<u>no trace of mineral</u>	<u>0</u>	<u>2</u>	<u>68.1</u>	<u>0.02</u>			
		<u>fine trace ilmenite</u>	<u>2</u>	<u>4</u>	<u>71.7</u>	<u>0.02</u>			
		<u>ilmenite</u>	<u>4</u>	<u>6</u>	<u>100.5</u>	<u>0.06</u>			
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>123.0</u>	<u>0.04</u>			
		<u>" "</u> , <u>Trace Pyrite</u>	<u>8</u>	<u>10</u>	<u>110.0</u>	<u>0.02</u>			
		<u>very fine to fine ilmenite</u>	<u>10</u>	<u>12</u>	<u>105.0</u>	<u>0.13</u>			
		<u>small amount fine ilmenite & ^{trace} pyrite</u>	<u>12</u>	<u>13</u>	<u>115.5</u>	<u>1.81</u>			
		<u>small amount fine, gold, ilmenite, blackish</u>	<u>13</u>	<u>13.50</u>	<u>101.5</u>	<u>1.67</u>			
		<u>" " " " " "</u>	<u>13.50</u>	<u>14</u>	<u>109.2</u>	<u>2.83</u>			
		<u>" " " " " "</u>	<u>14</u>	<u>14.50</u>	<u>114.0</u>	<u>2.68</u>			
		<u>Small amount fine, ilmenite, blackish</u>	<u>14.50</u>	<u>15</u>	<u>177.5</u>	<u>2.06</u>			
		<u>" " " " " "</u>	<u>15</u>	<u>15.50</u>	<u>117.7</u>	<u>1.27</u>			
		<u>fine to fine, pyrite</u>	<u>15.50</u>	<u>16</u>	<u>99.7</u>	<u>0.65</u>			
		<u>very fine to fine, pyrite</u>	<u>16</u>	<u>16.50</u>	<u>107.7</u>	<u>0.12</u>			
		<u>pyrite</u>	<u>16.50</u>	<u>17</u>	<u>135.4</u>	<u>0.04</u>			
		<u>" "</u>	<u>17</u>	<u>17.50</u>	<u>154.0</u>	<u>0.01</u>			
		<u>"</u>	<u>17.50</u>	<u>18</u>	<u>126.5</u>	<u>0.01</u>			

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P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:
.....
Attention.....

Remarks

Detection limits

Place analysed..... Date analysed.....

Analyst.....

724028

GENERAL SAMPLE DESCRIPTION

SHEET No 0930

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 26/4/81

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT g.	% Sn			
	<u>BL-10/06</u>	<u>massive ilmenite</u>	<u>0</u>	<u>2</u>	<u>779</u>	<u>0.03</u>			
		<u>"</u>	<u>2</u>	<u>4</u>	<u>877</u>	<u>0.03</u>			
		<u>ilmenite</u>	<u>4</u>	<u>6</u>	<u>780</u>	<u>0.07</u>			
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>923</u>	<u>0.06</u>			
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>849</u>	<u>0.05</u>			
			<u>10</u>	<u>12</u>	<u>743</u>	<u>0.04</u>			
		<u>ilmenite</u>	<u>12</u>	<u>14</u>	<u>1152</u>	<u>0.02</u>			
		<u>"</u>	<u>14</u>	<u>14.50</u>	<u>1157</u>	<u>0.04</u>			
		<u>Small amount Tin, Bld, ilmenite</u>	<u>14.50</u>	<u>15</u>	<u>1167</u>	<u>1.40</u>			
		<u>Tin, Bld, ilmenite, Blackish</u>	<u>15</u>	<u>15.50</u>	<u>991</u>	<u>2.96</u>			
		<u>" " "</u>	<u>15.50</u>	<u>16</u>	<u>1116</u>	<u>2.49</u>			
		<u>Small amount Tin, Bld, ilmenite, Blackish</u>	<u>16</u>	<u>16.50</u>	<u>1113</u>	<u>1.09</u>			
		<u>To Tin, pyrite</u>	<u>16.50</u>	<u>17</u>	<u>777</u>	<u>0.71</u>			
		<u>very fine mass. Tin, Pyrite</u>	<u>17</u>	<u>17.50</u>	<u>860</u>	<u>0.68</u>			
		<u>Pyrite</u>	<u>17.50</u>	<u>18</u>	<u>1000</u>	<u>0.04</u>			

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Remarks

Detection limits

Place analysed: _____ Date analysed: _____
 Analyst: _____

724029

GENERAL SAMPLE DESCRIPTION

SHEET No 0934

State TNS Project Name Encl. Pelotas Project No. _____ Sampled by S. J. Moore Date 29-4-82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	WEIGHT g.	% Sn.	
	<u>B1-10/08</u>	<u>Trace Ilmenite</u>	<u>0</u>	<u>2</u>	<u>104.4</u>	<u>0.01</u>	
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>80.4</u>	<u>0.03</u>	
		<u>Ilmenite</u>	<u>4</u>	<u>6</u>	<u>107.3</u>	<u>0.03</u>	
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>99.1</u>	<u>0.03</u>	
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>95.5</u>	<u>0.04</u>	
		<u>Ilmenite</u>	<u>10</u>	<u>12</u>	<u>111.4</u>	<u>0.05</u>	
		<u>" "</u>	<u>12</u>	<u>14</u>	<u>119.0</u>	<u>0.03</u>	
		<u>" "</u>	<u>14</u>	<u>15</u>	<u>97.2</u>	<u>0.04</u>	<u>0.04</u>
		<u>Very fine trace tin, Ilmenite</u>	<u>15</u>	<u>15.50</u>	<u>112.3</u>	<u>0.07</u>	<u>0.08</u>
		<u>Small amount tin, Ilmenite Blackjack</u>	<u>15.50</u>	<u>16</u>	<u>101.2</u>	<u>1.31</u>	<u>1.33</u>
		<u>Tin, Gold, Ilmenite, Blackjack</u>	<u>16</u>	<u>16.50</u>	<u>73.4</u>	<u>4.85</u>	<u>3.58</u>
		<u>Tin, Ilmenite, Blackjack</u>	<u>16.50</u>	<u>17</u>	<u>102.0</u>	<u>3.99</u>	<u>4.07</u>
		<u>Small amount of tin, Pyrite, Blackjack</u>	<u>17</u>	<u>17.50</u>	<u>93.3</u>	<u>1.75</u>	<u>1.63</u>
		<u>Very fine trace tin, Pyrite</u>	<u>17.50</u>	<u>18</u>	<u>117.3</u>	<u>0.07</u>	<u>0.32</u>
		<u>" " " "</u>	<u>18</u>	<u>18.50</u>	<u>107.7</u>	<u>0.14</u>	<u>0.15</u>
		<u>Pyrite</u>	<u>18.50</u>	<u>19</u>	<u>96.4</u>	<u>0.03</u>	

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Attention _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724030

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0538

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 3/5/82 0938

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g	% St.
	<u>BH-10/10</u>	<u>To ilmenite</u>	<u>0</u>	<u>2</u>	<u>94.4</u>	<u>0.06</u>
		<u>ilmenite</u>	<u>2</u>	<u>4</u>	<u>93.0</u>	<u>0.03</u>
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>90.0</u>	<u>0.06</u>
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>86.2</u>	<u>0.04</u>
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>126.7</u>	<u>0.04</u>
		<u>ilmenite</u>	<u>10</u>	<u>12</u>	<u>98.3</u>	<u>0.03</u>
		<u>" "</u>	<u>12</u>	<u>13</u>	<u>86.5</u>	<u>0.03</u>
		<u>To Tin ilmenite</u>	<u>13</u>	<u>14</u>	<u>92.8</u>	<u>0.87</u>
		<u>Small amount Tin, ilmenite, black pyrite,</u>	<u>14</u>	<u>14.50</u>	<u>102.3</u>	<u>1.42</u>
		<u>Tin, ilmenite, Black pyrite</u>	<u>14.50</u>	<u>15</u>	<u>95.5</u>	<u>3.35</u>
		<u>" "</u>	<u>15</u>	<u>15.50</u>	<u>104.7</u>	<u>5.45</u>
		<u>" "</u>	<u>15.50</u>	<u>16</u>	<u>111.0</u>	<u>2.93</u>
		<u>Large amount Tin, ilmenite, Black pyrite</u>	<u>16</u>	<u>16.50</u>	<u>104.0</u>	<u>7.56</u>
		<u>Tin, ilmenite, Black pyrite</u>	<u>16.50</u>	<u>17</u>	<u>99.4</u>	<u>3.20</u>
		<u>Tin, Gold, ilmenite, Black pyrite</u>	<u>17</u>	<u>17.50</u>	<u>99.5</u>	<u>2.35</u>
		<u>very fine to tin, pyrite</u>	<u>17.50</u>	<u>18</u>	<u>113.5</u>	<u>0.66</u>
		<u>pyrite</u>	<u>18</u>	<u>18.50</u>	<u>114.8</u>	<u>0.05</u>
		<u>" "</u>	<u>18.50</u>	<u>19</u>	<u>110.1</u>	<u>0.02</u>
		<u>" "</u>	<u>19</u>	<u>19.50</u>	<u>105.6</u>	<u>0.03</u>

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 Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
 Analyst _____

724031

GENERAL SAMPLE DESCRIPTION

SHEET No 0940

State TAS Project Name G.M. PLAINS Project No. _____ Sampled by S. PROKE Date 4/15/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT g.	% SN			
	BL-10/12	Amnrite	0	2	99.4	0.05			
		Amnrite	2	4	114.0	0.02			
		"	4	6	103.5	0.05			
		"	6	8	87.1	0.04			
		Amnrite	8	10	116.6	0.03			
		Amnrite	10	12	124.9	0.02			
		"	12	13	90.2	0.03			
		Tr. Fe, Amnrite, black quartz	13	14	132.4	0.30			
		" " " "	14	14.50	128.6	0.68			
		Tr. Fe, Amnrite, black-Fe	14.50	15	144.6	2.07			
		" " " "	15	15.50	154.4	1.74			
		" " " "	15.50	16	136.6	2.02			
		Small amount Fe, pyrite, Amnrite, black quartz	16	16.50	114.3	1.82			
		" " " " " "	16.50	17	109.0	2.35			
		" " " " " "	17	17.50	106.0	1.76			
		Tr. Fe, pyrite	17.50	18	145.8	0.81			
		" " " "	18	18.50	100.00	0.27			
		Pyrite	18.50	19	84.0	0.06			
		"	19	19.50	86.6	0.04			
	"	19.50	20	108.3	0.03				

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Attention _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

7224032

GENERAL SAMPLE DESCRIPTION

SHEET No 0972

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 8/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g	% Sn	
	<u>BL-10/16</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>94.8</u>	<u>0.23</u>	
		<u>"</u>	<u>2</u>	<u>4</u>	<u>94.5</u>	<u>0.23</u>	
		<u>"</u>	<u>4</u>	<u>6</u>	<u>75.4</u>	<u>0.25</u>	
		<u>"</u>	<u>6</u>	<u>8</u>	<u>83.2</u>	<u>0.23</u>	
		<u>"</u>	<u>8</u>	<u>10</u>	<u>76.8</u>	<u>0.23</u>	
		<u>"</u>	<u>10</u>	<u>12</u>	<u>83.3</u>	<u>0.23</u>	
		<u>"</u>	<u>12</u>	<u>14</u>	<u>90.6</u>	<u>0.21</u>	
		<u>"</u>	<u>14</u>	<u>15</u>	<u>87.1</u>	<u>0.22</u>	<u>1.10</u>
		<u>Thin gold ilmenite</u>	<u>15</u>	<u>16</u>	<u>112.1</u>	<u>1.03</u>	<u>60.77</u>
		<u>Thin ilmenite, Blackish</u>	<u>16</u>	<u>16.50</u>	<u>82.8</u>	<u>0.96</u>	
		<u>" " "</u>	<u>16.50</u>	<u>17</u>	<u>112.9</u>	<u>0.89</u>	
		<u>Small amount Thin Gold ilmenite Blackish</u>	<u>17</u>	<u>17.50</u>	<u>91.4</u>	<u>1.54</u>	
		<u>Large amount Thin ilmenite Blackish</u>	<u>17.50</u>	<u>18</u>	<u>105.5</u>	<u>7.59</u>	
		<u>Thin Gold Blackish Pyrite</u>	<u>18</u>	<u>18.50</u>	<u>127.8</u>	<u>3.25</u>	<u>346.1</u>
		<u>Large amount Pyrite</u>	<u>18.50</u>	<u>19</u>	<u>278.0</u>	<u>7.20</u>	<u>126</u>
		<u>" " "</u>	<u>19</u>	<u>19.50</u>	<u>209.4</u>	<u>0.22</u>	<u>92.14</u>
		<u>" " "</u>	<u>19.50</u>	<u>20</u>	<u>190.0</u>	<u>0.10</u>	<u>27</u>

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Attention _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724033

grades transferred to
alluvial tin log
Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0939

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 4/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	weight g.	% Sn			
	<u>BK-11/02</u>	<u>Tin ilmenite</u>	<u>0</u>	<u>2</u>	<u>143.2</u>	<u>0.02</u>			
		<u>"</u>	<u>2</u>	<u>4</u>	<u>142.5</u>	<u>0.02</u>			
		<u>"</u>	<u>4</u>	<u>6</u>	<u>140.3</u>	<u>0.03</u>			
		<u>ilmenite</u>	<u>6</u>	<u>8</u>	<u>100.0</u>	<u>0.09</u>			
		<u>"</u>	<u>8</u>	<u>10</u>	<u>130.6</u>	<u>0.11</u>			
		<u>Tin Gold ilmenite</u>	<u>10</u>	<u>12</u>	<u>116.9</u>	<u>1.19</u>			
		<u>Small amount Tin ilmenite Black jack</u>	<u>12</u>	<u>12.50</u>	<u>98.6</u>	<u>0.70</u>			
		<u>Tin ilmenite Black jack</u>	<u>12.50</u>	<u>13</u>	<u>106.2</u>	<u>0.75</u>			
		<u>Small amount Tin ilmenite Black jack</u>	<u>13</u>	<u>13.50</u>	<u>118.1</u>	<u>1.38</u>			
		<u>Tin ilmenite Black jack</u>	<u>13.50</u>	<u>14</u>	<u>95.0</u>	<u>2.77</u>			
		<u>"</u>	<u>14</u>	<u>14.50</u>	<u>121.6</u>	<u>1.94</u>			
		<u>Tin Gold ilmenite Black jack</u>	<u>14.50</u>	<u>15</u>	<u>79.3</u>	<u>2.57</u>			
		<u>very fine Tin Pyrite</u>	<u>15</u>	<u>15.50</u>	<u>118.7</u>	<u>0.19</u>			
		<u>Pyrite</u>	<u>15.50</u>	<u>16.50</u>	<u>154.3</u>	<u>0.16</u>			
		<u>"</u>	<u>16.50</u>	<u>17</u>	<u>115.8</u>	<u>0.14</u>			

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Attention _____

Remarks _____

Detection limits _____

Place analysed _____ Date analysed _____

Analyst _____

15-03-82

grades transferred
to alluvial tin log.
Laboratory

GENERAL SAMPLE DESCRIPTION

SHEET No 0943

State TAS Project Name G.N. PLAINS Project No. Sampled by S. MOORE Date 6/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	% Sn.			
	<u>BL-11/04</u>	<u>Ilmenite</u>	<u>0</u>	<u>2</u>	<u>104.0</u>	<u>0.04</u>			
		<u>"</u>	<u>2</u>	<u>4</u>	<u>98.6</u>	<u>0.06</u>			
		<u>"</u>	<u>4</u>	<u>6</u>	<u>106.7</u>	<u>0.07</u>			
		<u>"</u>	<u>6</u>	<u>8</u>	<u>117.5</u>	<u>0.06</u>			
		<u>"</u>	<u>8</u>	<u>10</u>	<u>99.3</u>	<u>0.05</u>			
		<u>Ilmenite</u>	<u>10</u>	<u>12</u>	<u>90.0</u>	<u>0.06</u>			
		<u>Ilmenite, Small amount Tin</u>	<u>12</u>	<u>14</u>	<u>111.5</u>	<u>1.03</u>			
		<u>Tin, Ilmenite Blackjack</u>	<u>14</u>	<u>14.50</u>	<u>104.8</u>	<u>2.67</u>			
		<u>Tin, Gold, Ilmenite, Blackjack</u>	<u>14.50</u>	<u>15</u>	<u>100.0</u>	<u>5.59</u>			
		<u>" " " " "</u>	<u>15</u>	<u>15.50</u>	<u>103.5</u>	<u>5.20</u>			
		<u>" " " " "</u>	<u>15.50</u>	<u>16</u>	<u>91.0</u>	<u>3.04</u>			
		<u>In Tin, Pyrite</u>	<u>16</u>	<u>17</u>	<u>99.0</u>	<u>0.29</u>			

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			Place analysed.....	Date analysed.....	Analyst.....	

to allow tin
Field

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0947

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by SMOORE Date 10/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	WEIGHT G.	% Sn
	BL-11/06	Fe ilmenite	0	2	99.0	0.02
		" "	2	4	115.5	0.03
		" "	4	6	105.2	0.04
		" "	6	8	87.9	0.04
		" "	8	10	135.3	0.03
		ilmenite	10	12	117.1	0.04
		" "	12	14	117.0	0.05
		Fe Tin, ilmenite	14	15	109.9	0.13
		" " "	15	15.50	114.0	0.11
		Tin, Fe ilmenite, Blackjack	15.50	16	95.0	4.43
		" " "	16	16.50	112.5 121.6	0.88
		Small amount Tin, Fe ilmenite, Blackjack	16.50	17	112.5 121.2	2.04
		" " "	17	17.50	112.5	1.23
		Fe Tin, ilmenite, Blackjack	17.50	18	67.9	0.88
		Small amount Tin, ilmenite, Blackjack	18	18.50	102.5	1.19
		Fe Tin, Pyrite	18.50	19	104.2	0.98
		" " "	19	19.50	92.4	0.97
		Pyrite	19.50	20	100.6	0.12
		" "	20	21	164.7	0.05

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One copy of results to: _____

Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

7224036

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 12/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	% Zn.			
	<u>BL-11/08</u>	<u>Aluminite</u>	<u>0</u>	<u>2</u>	<u>147.3</u>	<u>0.03</u>			
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>154.0</u>	<u>0.03</u>			
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>116.0</u>	<u>0.09</u>			
		<u>Aluminite</u>	<u>6</u>	<u>8</u>	<u>127.2</u>	<u>0.07</u>			
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>113.9</u>	<u>0.07</u>			
		<u>" "</u>	<u>10</u>	<u>12</u>	<u>136.5</u>	<u>0.06</u>			
		<u>Zn Zn, aluminite</u>	<u>12</u>	<u>14</u>	<u>119.9</u>	<u>1.07</u>			
		<u>" "</u>	<u>14</u>	<u>15</u>	<u>112.1</u>	<u>0.95</u>			
		<u>Zn aluminite Blackjack</u>	<u>15</u>	<u>15.50</u>	<u>103.4</u>	<u>3.59</u>			
		<u>Zn Sulf aluminite Blackjack</u>	<u>15.50</u>	<u>16</u>	<u>109.2</u>	<u>3.37</u>			
		<u>Small amount Zn Sulf aluminite Blackjack</u>	<u>16</u>	<u>16.50</u>	<u>116.7</u>	<u>1.61</u>			
		<u>Large amount Zn Sulf aluminite Blackjack</u>	<u>16.50</u>	<u>17</u>	<u>113.0</u>	<u>7.97</u>			
		<u>" "</u>	<u>17</u>	<u>17.50</u>	<u>130.0</u>	<u>5.55</u>			
		<u>small amount Zn Sulf aluminite Blackjack</u>	<u>17.50</u>	<u>18</u>	<u>135.0</u>	<u>2.40</u>			
		<u>Small amount Zn Sulf aluminite Blackjack</u>	<u>18</u>	<u>18.50</u>	<u>98.2</u>	<u>2.41</u>			
		<u>" "</u>	<u>18.50</u>	<u>19</u>	<u>105.9</u>	<u>1.94</u>			
		<u>Zn Zn, pyrite</u>	<u>19</u>	<u>19.50</u>	<u>111.3</u>	<u>0.68</u>			
		<u>Pyrite</u>	<u>19.50</u>	<u>20</u>	<u>131.7</u>	<u>0.03</u>			
		<u>" "</u>	<u>20</u>	<u>20.50</u>	<u>116.3</u>	<u>0.01</u>			

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Remarks

Detection limits

Place analysed..... Date analysed.....
Analyst.....

724037

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 14/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g	% Sn
	BL-11/10	Fe silicite	0	2	105.9	0.02
		"	2	4	116.8	0.02
		silicite	4	6	100.9	0.03
		"	6	8	116.1	0.03
		silicite	8	10	105.2	0.06
		"	10	12	104.0	0.06
		very fine to tin silicite	12	14	100.1	0.11
		tin, silicite	14	16	105.2	2.23
		" "	16	16.50	100.1	1.79
		Small amount tin silicite	16.50	17	111.0	1.16
	Small amount tin silicite	17	17.50	117.5	1.40	
	" " " "	17.50	18	114.6	2.21	
	Fe tin, pyrite	18	18.50	126.1	0.50	
	" " "	18.50	19	111.6	0.99	

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Attention: _____

Remarks _____

Detection limits _____

Place analysed _____ Date analysed _____

Analyst _____

724038

GENERAL SAMPLE DESCRIPTION

SHEET No 0956

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 18/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	weight g	% Sn			
	<u>B.L. - 11/12</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>82.8</u>	<u>0.04</u>			
		<u>ilmenite</u>	<u>2</u>	<u>4</u>	<u>80.0</u>	<u>0.04</u>			
		<u>"</u>	<u>4</u>	<u>6</u>	<u>93.2</u>	<u>0.03</u>			
		<u>"</u>	<u>6</u>	<u>8</u>	<u>102.4</u>	<u>0.03</u>			
		<u>"</u>	<u>8</u>	<u>10</u>	<u>92.8</u>	<u>0.12</u>			
		<u>"</u>	<u>10</u>	<u>12</u>	<u>91.8</u>	<u>0.07</u>			
		<u>"</u>	<u>12</u>	<u>14</u>	<u>93.9</u>	<u>0.05</u>			
		<u>Fr. Zn, ilmenite</u>	<u>14</u>	<u>14.50</u>	<u>78.4</u>	<u>0.15</u>			
		<u>" " "</u>	<u>14.50</u>	<u>15</u>	<u>97.5</u>	<u>0.14</u>			
		<u>" " "</u>	<u>15</u>	<u>15.50</u>	<u>100.0</u>	<u>0.12</u>			
		<u>Pyrite</u>	<u>15.50</u>	<u>16</u>	<u>98.2</u>	<u>0.09</u>			
		<u>Fr Zn, Pyrite</u>	<u>16</u>	<u>16.50</u>	<u>90.2</u>	<u>0.20</u>			

Invoice and 2 copies of results to
Amdex Mining Ltd.
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North Sydney N.S.W. 2060

One copy of results to: _____
Attention: _____

Remarks _____

Detection limits _____

Place analysed _____ Date analysed _____

Analyst _____

424039

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G. N. PLAINS Project No. _____ Sampled by S. MOORE Date 20/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g	% S.N.	
	BL-11/13	ilmenite	0	2	37.2	0.12	
		ilmenite	2	4	107.3	0.03	
		"	4	6	109.5	0.03	
		"	6	8	92.8	0.04	
		"	8	10	95.7	0.05	
		"	"	10	12	75.8	0.04
		"	"	12	14	72.3	0.02
		"	Tin, ilmenite, Blackpack	14	15	110.0	2.00
		"	" " " "	15	15.50	100.7	2.51
		"	Large amount Tin, ilmenite, Blackpack	15.50	16	119.2	25.81
	"	" " " "	16	16.50	115.6	14.84	
	"	Small amount Tin, ilmenite, pyrite	16.50	17	113.7	6.70	
	"	Large amount Pyrite	17	18	171.2	0.16	

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 Amdex Mining Ltd.
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One copy of results to:

 Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

721010

GENERAL SAMPLE DESCRIPTION

State TAS. Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 26/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn
	<u>B6-11/14</u>	<u>Fr ilmenite,</u>	<u>0</u>	<u>2</u>	<u>119.3</u>	<u>0.03</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>93.2</u>	<u>0.02</u>
		<u>ilmenite</u>	<u>4</u>	<u>6</u>	<u>106.6</u>	<u>0.05</u>
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>80.0</u>	<u>0.05</u>
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>106.5</u>	<u>0.04</u>
		<u>" "</u>	<u>10</u>	<u>12</u>	<u>86.0</u>	<u>0.07</u>
		<u>Fin ilmenite, Black Jack</u>	<u>12</u>	<u>14</u>	<u>94.4</u>	<u>3.84</u>
		<u>Fin Gold, ilmenite, Black Jack</u>	<u>14</u>	<u>14.50</u>	<u>91.7</u>	<u>3.70</u>
		<u>Large amount Fin Gold, ilmenite, Black Jack</u>	<u>14.50</u>	<u>15</u>	<u>91.2</u>	<u>6.45</u>
		<u>Small amount Fin Gold, ilmenite, Black Jack</u>	<u>15</u>	<u>15.50</u>	<u>87.4</u>	<u>1.71</u>
		<u>Fr Fin ilmenite</u>	<u>15.50</u>	<u>16</u>	<u>87.7</u>	<u>1.22</u>
		<u>" " "</u>	<u>16</u>	<u>16.50</u>	<u>114.5</u>	<u>0.78</u>
		<u>Large amount Fin ilmenite, pyrite</u>	<u>16.50</u>	<u>17</u>	<u>96.3</u>	<u>6.24</u>
		<u>" " " "</u>	<u>17</u>	<u>17.50</u>	<u>92.4</u>	<u>4.34</u>
		<u>" " " "</u>	<u>17.50</u>	<u>18</u>	<u>86.7</u>	<u>4.47</u>
		<u>Large amount Fin ilmenite, pyrite, Black Jack</u>	<u>18</u>	<u>18.50</u>	<u>119.6</u>	<u>4.07</u>
		<u>Small amount Fin " " " "</u>	<u>18.50</u>	<u>19</u>	<u>110.7</u>	<u>1.23</u>
		<u>" " " " " "</u>	<u>19</u>	<u>19.50</u>	<u>82.2</u>	<u>2.36</u>
		<u>" " " " " "</u>	<u>19.50</u>	<u>20</u>	<u>96.2</u>	<u>1.24</u>
		<u>" " " " " "</u>	<u>20</u>	<u>20.50</u>	<u>65.7</u>	<u>1.52</u>

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Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

7224041

GENERAL SAMPLE DESCRIPTION

State: TAS Project Name: G-N PLAINS Project No. Sampled by: S. MOORE Date: 31/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g	% S.N.
	<u>BL-11/16</u>	<u>Fr almonite</u>	<u>0</u>	<u>2</u>	<u>112.2</u>	<u>0.02</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>85.2</u>	<u>0.03</u>
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>90.5</u>	<u>0.03</u>
		<u>almonite</u>	<u>6</u>	<u>8</u>	<u>05.9</u>	<u>0.04</u>
		<u>" "</u>	<u>8</u>	<u>10</u>	<u>03.0</u>	<u>0.03</u>
		<u>" "</u>	<u>10</u>	<u>12</u>	<u>67.3</u>	<u>0.04</u>
		<u>Fr Tin almonite</u>	<u>12</u>	<u>14</u>	<u>101.5</u>	<u>0.71</u>
		<u>Large amount Tin almonite Blackjack</u>	<u>14</u>	<u>15</u>	<u>96.1</u>	<u>3.48</u>
		<u>Small amount Tin, almonite Blackjack</u>	<u>15</u>	<u>15.50</u>	<u>101.6</u>	<u>0.92</u>
		<u>Tin almonite Blackjack</u>	<u>15.50</u>	<u>16</u>	<u>01.9</u>	<u>2.50</u>
		<u>Small amount Tin almonite Blackjack</u>	<u>16</u>	<u>16.50</u>	<u>67.9</u>	<u>1.24</u>
		<u>" " " " " "</u>	<u>16.50</u>	<u>17</u>	<u>101.6</u>	<u>1.34</u>
		<u>" " " " " "</u>	<u>17</u>	<u>17.50</u>	<u>93.2</u>	<u>1.35</u>
		<u>Large amount Tin almonite B-jack</u>	<u>17.50</u>	<u>18</u>	<u>93.5</u>	<u>5.31</u>
		<u>Tin almonite Pyrite Blackjack</u>	<u>18</u>	<u>18.50</u>	<u>08.2</u>	<u>2.65</u>
		<u>Tin Pyrite Blackjack</u>	<u>18.50</u>	<u>19</u>	<u>103.1</u>	<u>3.28</u>
		<u>Tin Pyrite Blackjack</u>	<u>19</u>	<u>19.50</u>	<u>111.6</u>	<u>2.11</u>
		<u>Small amount Tin Pyrite</u>	<u>19.50</u>	<u>20</u>	<u>108.2</u>	<u>1.26</u>
		<u>Fr Tin Pyrite</u>	<u>20</u>	<u>20.50</u>	<u>110.0</u>	<u>0.89</u>
		<u>" " " "</u>	<u>20.50</u>	<u>21</u>	<u>104.4</u>	<u>0.79</u>

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	Attention:		Place analysed:	Date analysed:	Analyst:	Analyst:

722042

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0970

State: TAS Project Name: G.N. PLAINS Project No. _____ Sampled by: S. MOORE Date: 4/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g	% SN
	<u>BL-11/18</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>85.9</u>	<u>0.05</u>
		<u>ilmenite</u>	<u>2</u>	<u>4</u>	<u>86.6</u>	<u>0.03</u>
		<u>"</u>	<u>4</u>	<u>6</u>	<u>85.2</u>	<u>0.06</u>
		<u>"</u>	<u>6</u>	<u>8</u>	<u>89.7</u>	<u>0.10</u>
		<u>"</u>	<u>8</u>	<u>10</u>	<u>93.5</u>	<u>0.07</u>
		<u>"</u>	<u>10</u>	<u>12</u>	<u>92.7</u>	<u>0.04</u>
		<u>very fine Ti, ilmenite</u>	<u>12</u>	<u>13</u>	<u>107.9</u>	<u>0.12 8.63</u>
		<u>Ti, ilmenite</u>	<u>13</u>	<u>13.50</u>	<u>93.3</u>	<u>0.23 53.15</u>
		<u>"</u>	<u>13.50</u>	<u>14</u>	<u>94.6</u>	<u>0.19</u>
		<u>"</u>	<u>14</u>	<u>14.50</u>	<u>96.6</u>	<u>1.01</u>
		<u>Ti, ilmenite, Blackish</u>	<u>14.50</u>	<u>15</u>	<u>102.7</u>	<u>2.49</u>
		<u>Small amount Ti, ilmenite, Blackish</u>	<u>15</u>	<u>15.50</u>	<u>111.3</u>	<u>1.41 156.9</u>
		<u>Pyrite</u>	<u>15.50</u>	<u>16</u>	<u>124.8</u>	<u>0.23 41</u>
		<u>"</u>	<u>16</u>	<u>17</u>	<u>131.9</u>	<u>0.10</u>

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One copy of results to:

 Attention: _____

Remarks _____

Detection limits _____

Place analysed _____ Date analysed _____

Analyst _____

724043

AMDEX MINING LIMITED

Grades transferred to alluvial tin log. Laboratory

GENERAL SAMPLE DESCRIPTION

SHEET No 0911

State TAS. Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 2/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g	%Sn Assay
	<u>BL 12/01</u>	<u>ilmenite</u>	<u>0</u>	<u>1</u>	<u>136.5</u>	<u>0.02</u>
		<u>"</u>	<u>1</u>	<u>2</u>	<u>145.8</u>	<u>0.03</u>
		<u>"</u>	<u>2</u>	<u>3</u>	<u>141.4</u>	<u>0.03</u>
		<u>"</u>	<u>3</u>	<u>4</u>	<u>119.0</u>	<u>0.04</u>
		<u>"</u>	<u>4</u>	<u>5</u>	<u>137.6</u>	<u>0.06</u>
		<u>"</u>	<u>5</u>	<u>6</u>	<u>133.2</u>	<u>0.05</u>
		<u>"</u>	<u>6</u>	<u>6.50</u>	<u>126.7</u>	<u>0.07</u>
		<u>"</u>	<u>6.50</u>	<u>7</u>	<u>135.5</u>	<u>0.07</u>
		<u>"</u>	<u>7</u>	<u>7.50</u>	<u>122.4</u>	<u>0.10</u>
		<u>"</u>	<u>7.50</u>	<u>8</u>	<u>107.3</u>	<u>0.06</u>
		<u>"</u>	<u>8</u>	<u>8.50</u>	<u>114.6</u>	<u>0.04</u>
		<u>"</u>	<u>8.50</u>	<u>9</u>	<u>106.1</u>	<u>0.06</u>
		<u>"</u>	<u>9</u>	<u>9.50</u>	<u>156.9</u>	<u>0.04</u>
		<u>"</u>	<u>9.50</u>	<u>10</u>	<u>136.3</u>	<u>0.06</u>
		<u>"</u>	<u>10</u>	<u>10.50</u>	<u>112.6</u>	<u>0.04</u>
		<u>"</u>	<u>10.50</u>	<u>11</u>	<u>129.9</u>	<u>0.09</u>
		<u>"</u>	<u>11</u>	<u>11.50</u>	<u>101.7</u>	<u>0.07</u>
		<u>"</u>	<u>11.50</u>	<u>12</u>	<u>107.5</u>	<u>0.04</u>
		<u>"</u>	<u>12</u>	<u>12.50</u>	<u>112.8</u>	<u>0.05</u>
		<u>"</u>	<u>12.50</u>	<u>13</u>	<u>113.1</u>	<u>0.03</u>
		<u>"</u>	<u>13</u>	<u>13.50</u>	<u>139.8</u>	<u>0.03</u>
		<u>"</u>	<u>13.50</u>	<u>14</u>	<u>134.8</u>	<u>0.03</u>
		<u>Top tin, ilmenite</u>	<u>14</u>	<u>14.50</u>	<u>100.0</u>	<u>0.07</u>
		<u>" " "</u>	<u>14.50</u>	<u>15</u>	<u>137.2</u>	<u>0.29</u>
		<u>Small amount tin ilmenite</u>	<u>15</u>	<u>15.50</u>	<u>44.0</u>	<u>3.12</u>

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One copy of results to:

Attention:

Remarks

Detection limits

Place analysed

Analyst

Date analysed

120114

Field
*9m 2m ...
 alluvial ...*

GENERAL SAMPLE DESCRIPTION

SHEET No 0912

State TAS Project Name G.M. PLAINS Project No. _____ Sampled by S. MOORE Date 5/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	weight g.	g/g Au			
	<u>BL 12/01</u>	<u>Small amount Tin, Gold, arsenite</u>	<u>15.50</u>	<u>16</u>	<u>144.9</u>	<u>1.93</u>			
		<u>Small amount Tin, Gold, arsenite, Black pitch</u>	<u>16</u>	<u>16.50</u>	<u>99.8</u>	<u>1.55</u>			
		<u>" " " " " "</u>	<u>16.50</u>	<u>17</u>	<u>130.0</u>	<u>0.87</u>			
		<u>" " " " " "</u>	<u>17</u>	<u>17.50</u>	<u>103.4</u>	<u>1.27</u>			
		<u>Tr. Tin, Gold, pyrite</u>	<u>17.50</u>	<u>18</u>	<u>132.3</u>	<u>0.82</u>			
		<u>" " "</u>	<u>18</u>	<u>18.50</u>	<u>170.9</u>	<u>0.70</u>			
		<u>" " "</u>	<u>18.50</u>	<u>19</u>	<u>135.9</u>	<u>0.77</u>			
		<u>Pyrite</u>	<u>19</u>	<u>19.50</u>	<u>157.6</u>	<u>0.51</u>			

Invoice and 2 copies of results to Amdex Mining Ltd. P.O. Box 147, North Sydney N.S.W. 2060	One copy of results to: _____ Attention: _____	Remarks _____ _____	Detection limits _____	
				Place analysed: _____ Analyst: _____

724045

AMDEX MINING LIMITED

Grades Transferred to Alluvial tin log. Laboratory

GENERAL SAMPLE DESCRIPTION

SHEET No 0921

State TAS

Project Name G.N PLAINS, Project No. _____

Sampled by S. MOORE

Date 16/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	WT. g.	Sn. %
	<u>BL 12/04</u>	Pyrite <u>ILMENITE</u>	<u>0</u>	<u>1</u>	<u>126.0</u>	<u>0.03</u>
		<u>ilmenite</u>	<u>1</u>	<u>2</u>	<u>138.6</u>	<u>0.05</u>
		<u>"</u>	<u>2</u>	<u>3</u>	<u>94.8</u>	<u>0.02</u>
		<u>"</u>	<u>3</u>	<u>4</u>	<u>133.1</u>	<u>0.02</u>
		<u>"</u>	<u>4</u>	<u>5</u>	<u>153.1</u>	<u>0.03</u>
		<u>"</u>	<u>5</u>	<u>6</u>	<u>107.6</u>	<u>0.05</u>
		<u>"</u>	<u>6</u>	<u>7</u>	<u>134.2</u>	<u>0.04</u>
		<u>"</u>	<u>7</u>	<u>8</u>	<u>142.6</u>	<u>0.14</u>
		<u>"</u>	<u>8</u>	<u>9</u>	<u>126.7</u>	<u>0.08</u>
		<u>"</u>	<u>9</u>	<u>9.50</u>	<u>136.1</u>	<u>0.06</u>
		<u>"</u>	<u>9.50</u>	<u>10</u>	<u>91.9</u>	<u>0.05</u>
		<u>"</u>	<u>10</u>	<u>10.50</u>	<u>90.8</u>	<u>0.04</u>
		<u>"</u>	<u>10.50</u>	<u>11</u>	90.8 → <u>105.5</u>	<u>0.04</u>
		<u>FINE TRACE TINE of ILMENITE</u>	<u>11</u>	<u>11.50</u>	<u>116.4</u>	<u>0.09</u>
		<u>In Tin, ilmenite</u>	<u>11.50</u>	<u>12</u>	<u>108.7</u>	<u>0.12</u>
		<u>"</u>	<u>12</u>	<u>12.50</u>	<u>110.8</u>	<u>0.12</u>
		<u>Small amount In, ilmenite</u>	<u>12.50</u>	<u>13</u>	<u>114.7</u>	<u>1.53</u>
		<u>"</u>	<u>13</u>	<u>13.50</u>	<u>111.4</u>	<u>0.94</u>
		<u>In Tin, ilmenite, black pack</u>	<u>13.50</u>	<u>14</u>	<u>120.0</u>	<u>0.17</u>
		<u>"</u>	<u>14</u>	<u>14.50</u>	<u>131.8</u>	<u>0.16</u>
		<u>"</u>	<u>14.50</u>	<u>15</u>	<u>129.5</u>	<u>0.18</u>
		<u>Small amount In, ilmenite, black pack</u>	<u>15</u>	<u>15.50</u>	<u>120.8</u>	<u>1.32</u>
		<u>"</u>	<u>15.50</u>	<u>16</u>	<u>120.8</u>	<u>2.33</u>
		<u>"</u>	<u>16</u>	<u>16.50</u>	<u>132.1</u>	<u>1.38</u>
		<u>"</u>	<u>16.50</u>	<u>17</u>	<u>137.5</u>	<u>1.15</u>

Invoice and 2 copies of results to Amdex Mining Ltd. P.O. Box 147, North Sydney N.S.W. 2060

One copy of results to:

Attention: _____

Remarks

Detection limits

Place analysed

Date analysed

Analyst

15.0.82

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N PLAINS Project No. _____ Sampled by S. MOORE Date 19/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	% % ₂			
	<u>BL 12/04</u>	<u>Small amount Limonite, Blackjack</u>	<u>17</u>	<u>17.50</u>	<u>131.0</u>	<u>1.48</u>			
		<u>" " " " " "</u>	<u>17.50</u>	<u>18</u>	<u>150.8</u>	<u>1.80</u>			
		<u>To Lim, ilmenite, Blackjack</u>	<u>18</u>	<u>18.50</u>	<u>156.9</u>	<u>0.79</u>			
		<u>To Lim, pyrite</u>	<u>18.50</u>	<u>19</u>	<u>145.3</u>	<u>0.20</u>			
		<u>pyrite to Lim, pyrite.</u>	<u>19</u>	<u>19.50</u>	<u>116.5</u>	<u>0.08</u>			
		<u>pyrite</u>	<u>19.50</u>	<u>20</u>	<u>145.2</u>	<u>0.02</u>			
		<u>"</u>	<u>20</u>	<u>21</u>	<u>126.1</u>	<u>BLD</u>			

Invoice and 2 copies of results to Amdex Mining Ltd.
 P.O. Box 147,
 North Sydney N.S.W. 2060

One copy of results to: _____
 Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

724047

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0922

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 19/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g	% Sn
	<u>B/L 12/05</u>	<u>ilmenite</u>	<u>0</u>	<u>1</u>	<u>99.8</u>	<u>0.01</u>
	" "	" "	<u>1</u>	<u>2</u>	<u>102.0</u>	<u>0.05</u>
	" "	" "	<u>2</u>	<u>3</u>	<u>71.0</u>	<u>0.06</u>
	" "	" "	<u>3</u>	<u>4</u>	<u>107.1</u>	<u>0.03</u>
	" "	" "	<u>4</u>	<u>5</u>	<u>114.2</u>	<u>0.06</u>
	" "	" "	<u>5</u>	<u>6</u>	<u>93.6</u>	<u>0.06</u>
	" "	" "	<u>6</u>	<u>7</u>	<u>107.3</u>	<u>0.05</u>
	" "	" "	<u>7</u>	<u>8</u>	<u>108.3</u>	<u>0.17</u>
	" "	<u>Very fine black iron & ilmenite</u>	<u>8</u>	<u>9</u>	<u>108.0</u>	<u>0.13</u>
	" "	" "	<u>9</u>	<u>10</u>	<u>107.4</u>	<u>0.13</u>
	" "	<u>Tr Tin, ilmenite</u>	<u>10</u>	<u>10.50</u>	<u>111.9</u>	<u>0.13</u>
	" "	<u>Tr Tin, ilmenite</u>	<u>10.50</u>	<u>11</u>	<u>114.1</u>	<u>0.25</u>
	" "	<u>Tr Tin, ilmenite</u>	<u>11</u>	<u>11.50</u>	<u>149.9</u>	<u>0.32</u>
	" "	" "	<u>11.50</u>	<u>12</u>	<u>130.0</u>	<u>0.21</u>
	" "	" "	<u>12</u>	<u>12.50</u>	<u>120.3</u>	<u>0.13</u>
	" "	<u>very fine Tr Tin, ilmenite</u>	<u>12.50</u>	<u>13</u>	<u>117.2</u>	<u>0.07</u>
	" "	" "	<u>13</u>	<u>13.50</u>	<u>140.0</u>	<u>0.06</u>
	" "	" "	<u>13.50</u>	<u>14</u>	<u>134.5</u>	<u>0.05</u>
	" "	" "	<u>14</u>	<u>14.50</u>	<u>150.0</u>	<u>0.08</u>
	" "	<u>Tr Tin, ilmenite</u>	<u>14.50</u>	<u>15</u>	<u>128.7</u>	<u>0.40</u>
	" "	<u>Small amount Tr Tin, ilmenite, Blackish</u>	<u>15</u>	<u>15.50</u>	<u>137.9</u>	<u>2.18</u>
	" "	" "	<u>15.50</u>	<u>16</u>	<u>142.0</u>	<u>1.66</u>
	" "	" "	<u>16</u>	<u>16.50</u>	<u>129.5</u>	<u>2.67</u>
	" "	" "	<u>16.50</u>	<u>17</u>	<u>108.0</u>	<u>2.47</u>
	" "	<u>Tin, Gold, ilmenite, Blackish</u>	<u>17</u>	<u>17.50</u>	<u>134.8</u>	<u>3.43</u>

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North Sydney N.S.W. 2060

One copy of results to:
Attention _____

Remarks _____

Detection limits _____

Place analysed _____ Date analysed _____

Analyst _____

521015

AMDEX MINING LIMITED

Grades transferred to
Alluvial Tin Log Laboratory

GENERAL SAMPLE DESCRIPTION

SHEET No 0925

State TAS Project Name G.N PLAINS Project No. _____ Sampled by S. MOORE Date 2/14/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	%Sn
	<u>BH-12/06</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>90.0</u>	<u>0.05</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>91.2</u>	<u>0.04</u>
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>122.5</u>	<u>0.04</u>
		<u>" "</u>	<u>6</u>	<u>8</u>	<u>120.0</u>	<u>0.04</u>
		<u>Very fine to tin, ilmenite</u>	<u>8</u>	<u>10</u>	<u>89.9</u>	<u>0.11</u>
		<u>" " " "</u>	<u>10</u>	<u>12</u>	<u>133.4</u>	<u>0.08</u>
		<u>very fine to tin, ilmenite</u>	<u>12</u>	<u>14</u>	<u>97.7</u>	<u>0.08</u>
		<u>Small amount tin, ilmenite, blacked</u>	<u>14</u>	<u>16</u>	<u>120.7</u>	<u>1.16</u>
		<u>tin, ilmenite, blacked</u>	<u>16</u>	<u>16.50</u>	<u>132.9</u>	<u>6.52</u>
		<u>" "</u>	<u>16.50</u>	<u>17</u>	<u>120.7</u>	<u>2.11</u>
		<u>To tin, pyrite</u>	<u>17</u>	<u>17.50</u>	<u>126.7</u>	<u>0.15</u>
		<u>pyrite</u>	<u>17.50</u>	<u>18.50</u>	<u>137.7</u>	<u>0.07</u>

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to: _____
Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

721050

Grades transferred
to Alluvial fan log,
Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0928

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 23/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn.
	<u>BL-12/07</u>	<u>Ilmenite</u>	<u>0</u>	<u>2</u>	<u>95.1</u>	<u>0.06</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>90.6</u>	<u>0.04</u>
		<u>" "</u>	<u>4</u>	<u>6</u>	<u>92.0</u>	<u>0.04</u>
		<u>very fine trace Zn, ilmenite</u>	<u>6</u>	<u>8</u>	<u>113.5</u>	<u>0.06</u>
		<u>" " " "</u>	<u>8</u>	<u>10</u>	<u>100.5</u>	<u>0.06</u>
		<u>Small amount Tin, ilmenite.</u>	<u>10</u>	<u>11</u>	<u>99.5</u>	<u>0.92</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>11</u>	<u>11.50</u>	<u>101.4</u>	<u>2.41</u>
		<u>" " " "</u>	<u>11.50</u>	<u>12</u>	<u>102.1</u>	<u>2.77</u>
		<u>Tin, ilmenite, Blackjack</u>	<u>12</u>	<u>12.50</u>	<u>115.3</u>	<u>7.52</u>
		<u>" " " "</u>	<u>12.50</u>	<u>13</u>	<u>110.8</u>	<u>3.78</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>13</u>	<u>13.50</u>	<u>98.1</u>	<u>1.18</u>
		<u>To Tin, ilmenite.</u>	<u>13.50</u>	<u>14</u>	<u>88.1</u>	<u>0.26</u>
		<u>very fine To Tin, pyrite</u>	<u>14</u>	<u>15</u>	<u>106.8</u>	<u>0.08</u>
		<u>pyrite</u>	<u>15</u>	<u>16</u>	<u>118.0</u>	<u>0.07</u>

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		Place analysed	Date analysed
		Analyst	

1220051

Gravel
Alluvial tin field log

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0929

State TAS Project Name G.M. PLAINS Project No. _____ Sampled by S. MOORE Date 23/4/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS			
			FROM	TO	weight g	FeCN		
	<u>BL-12/08</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>101.5</u>	<u>0.03</u>		
		<u>very fine sand ilmenite</u>	<u>2</u>	<u>4</u>	<u>100.1</u>	<u>0.03</u>		
		<u>ilmenite</u>	<u>4</u>	<u>6</u>	<u>92.2</u>	<u>0.04</u>		
		<u>Small amount Tin, ilmenite</u>	<u>6</u>	<u>8</u>	<u>90.4</u>	<u>0.31</u>	<u>0.31</u>	
		<u>very fine to Tin, ilmenite</u>	<u>8</u>	<u>10</u>	<u>117.9</u>	<u>0.10</u>		
		<u>" " " "</u>	<u>10</u>	<u>12</u>	<u>104.0</u>	<u>0.10</u>		
		<u>very fine to Tin, ilmenite</u>	<u>12</u>	<u>12.50</u>	<u>113.2</u>	<u>0.10</u>		
		<u>" " " "</u>	<u>12.50</u>	<u>13</u>	<u>123.0</u>	<u>0.12</u>		
		<u>To Tin ilmenite pyrite</u>	<u>13</u>	<u>13.50</u>	<u>116.6</u>	<u>0.17</u>		
		<u>Tin ilmenite, blackish pyrite</u>	<u>13.50</u>	<u>14</u>	<u>91.7</u>	<u>3.55</u>		
		<u>Small amount Tin ilmenite blackish pyrite</u>	<u>14</u>	<u>14.50</u>	<u>121.5</u>	<u>2.10</u>		
		<u>very fine to Tin, pyrite</u>	<u>14.50</u>	<u>15</u>	<u>115.7</u>	<u>0.64</u>		
		<u>pyrite</u>	<u>15</u>	<u>16</u>	<u>104.7</u>	<u>0.12</u>		

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:
.....
Attention.....

Remarks

Detection limits
.....
Place analysed..... Date analysed.....
Analyst.....

724052

to approval ^{new} tin log
Field

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0945

State TAS Project Name G-11 PLAINS Project No. _____ Sampled by S. MOORE Date 7/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	WEIGHT GRMS	% Sn			
	<u>BL-12/13</u>	<u>fine gr. ilmenite</u>	<u>0</u>	<u>2</u>	<u>175.0</u>	<u>0.02</u>			
		<u>fine gr. Tin ilmenite, pyrite</u>	<u>2</u>	<u>4</u>	<u>102.7</u>	<u>0.19</u>			
		<u>To Tin, ilmenite.</u>	<u>4</u>	<u>5</u>	<u>122.3</u>	<u>0.15</u>			
		<u>" " "</u>	<u>5</u>	<u>6</u>	<u>103.5</u>	<u>0.09</u>			
		<u>very fine to Tin, ilmenite.</u>	<u>6</u>	<u>6.50</u>	<u>130.9</u>	<u>0.07</u>			
		<u>ilmenite</u>	<u>6.50</u>	<u>7</u>	<u>140.3</u>	<u>0.03</u>			
		<u>"</u>	<u>7</u>	<u>7.50</u>	<u>143.6</u>	<u>0.03</u>			
		<u>"</u>	<u>7.50</u>	<u>8</u>	<u>130.9</u>	<u>0.03</u>			
		<u>"</u>	<u>8</u>	<u>10</u>	<u>122.5</u>	<u>0.04</u>			
		<u>ilmenite.</u>	<u>10</u>	<u>12</u>	<u>109.5</u>	<u>0.05</u>			
		<u>very fine to Tin ilmenite.</u>	<u>12</u>	<u>13</u>	<u>104.6</u>	<u>0.11</u>			
		<u>To Tin, ilmenite.</u>	<u>13</u>	<u>13.50</u>	<u>64.5</u>	<u>0.22</u>			
		<u>" " " pyrite</u>	<u>13.50</u>	<u>14</u>	<u>101.9</u>	<u>0.31</u>			
		<u>Small amount of Tin ilmenite pyrite</u>	<u>14</u>	<u>14.50</u>	<u>109.4</u>	<u>1.63</u>			
		<u>Tin ilmenite, Black Jack</u>	<u>14.50</u>	<u>15</u>	<u>95.9</u>	<u>2.39</u>			
		<u>" " " "</u>	<u>15</u>	<u>15.50</u>	<u>101.9</u>	<u>3.42</u>			
		<u>" " " "</u>	<u>15.50</u>	<u>16</u>	<u>101.6</u>	<u>2.70</u>			
		<u>Small amount of Tin ilmenite Black Jack</u>	<u>16</u>	<u>16.50</u>	<u>103.2</u>	<u>1.36</u>			
		<u>To Tin ilmenite.</u>	<u>16.50</u>	<u>17</u>	<u>135.5</u>	<u>0.29</u>			
		<u>very fine to Tin, ilmenite</u>	<u>17</u>	<u>17.50</u>	<u>117.7</u>	<u>0.26</u>			
		<u>" " " pyrite</u>	<u>17.50</u>	<u>18</u>	<u>129.6</u>	<u>0.06</u>			
		<u>To Tin, pyrite</u>	<u>18</u>	<u>19</u>	<u>116.0</u>	<u>0.97</u>			
		<u>" " "</u>	<u>19</u>	<u>20</u>	<u>125.0</u>	<u>0.84</u>			
		<u>pyrite</u>	<u>20</u>	<u>21</u>	<u>112.6</u>	<u>0.06</u>			

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One copy of results to: _____

Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

724053

gms/m³ Field

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0943

State TAS Project Name EN PLAINS Project No. _____ Sampled by S. MCCRE Date 6/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g	% Sn			
	BH-12/15	Fin ilmenite	0	2	10	100.0	0.03		
		" "	2	4		95.0	0.06		
		ilmenite	4	5		97.6	0.06		
		ilmenite	5	5.50		103.4	0.06		
		ilmenite	5.50	6		104.9	0.06		
		Tr Tin, ilmenite	6	6.50		120.1	0.68		
		" " "	6.50	7		105.5	0.27		
		very fine tin, ilmenite	7	9		143.7	0.11		
		" " " "	9	11		117.3	0.21		
		Small amount Tin, ilmenite	11	11.50		121.3	1.02		
		" " " "	11.50	12		109.4	1.28		
		" " " "	12	12.50		109.0	1.15		
		" " " "	12.50	13		109.7	1.30		
		Small amount Tin, ilmenite, black Jack	13	13.50		107.6	1.63	gm Sn	Vol. l
		Tr. ilmenite, black Jack	13.50	14		105.1	2.76		
		Tin pyrite, black Jack	14	14.50		114.4	2.20	2.52	9 280.0 g/m ³
	Tr Tin large amount pyrite	14.50	15		95.9	0.18	0.43	5.5 78.18 " "	
	Large amount pyrite	15	16		150.8	0.11			

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One copy of results to: _____
Attention: _____

Remarks

Detection limits
Place analysed _____ Date analysed _____
Analyst _____

724054

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 4/15/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g.	Assay	
	<u>BL-12/17</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>95.2</u>	<u>0.01</u>	
		<u>"</u>	<u>2</u>	<u>4</u>	<u>118.8</u>	<u>0.04</u>	
		<u>"</u>	<u>4</u>	<u>5</u>	<u>106.0</u>	<u>0.01</u>	
		<u>"</u>	<u>5</u>	<u>6</u>	<u>118.7</u>	<u>0.05</u>	
		<u>"</u>	<u>6</u>	<u>8</u>	<u>112.1</u>	<u>0.03</u>	
		<u>To Zn ilmenite</u>	<u>8</u>	<u>9</u>	<u>101.1</u>	<u>0.64</u>	<u>85.68</u>
		<u>Zn ilmenite Blackjack</u>	<u>9</u>	<u>10</u>	<u>120.0</u>	<u>1.17</u>	
		<u>Small amount Zn ilmenite Blackjack</u>	<u>10</u>	<u>10.50</u>	<u>98.4</u>	<u>0.10</u>	
		<u>To Zn ilmenite</u>	<u>10.50</u>	<u>11</u>	<u>99.0</u>	<u>1.06</u>	
		<u>very fine to Zn ilmenite</u>	<u>11</u>	<u>13</u>	<u>110.6</u>	<u>0.20</u>	
		<u>To Zn ilmenite</u>	<u>13</u>	<u>15</u>	<u>124.1</u>	<u>0.11</u>	
		<u>To Zn pyrite</u>	<u>15</u>	<u>15.50</u>	<u>152.7</u>	<u>0.66</u>	<u>167.97</u>
		<u>ilmenite pyrite</u>	<u>15.50</u>	<u>16</u>	<u>112.8</u>	<u>0.10</u>	<u>36.10</u>
		<u>pyrite</u>	<u>16</u>	<u>16.50</u>	<u>109.4</u>	<u>0.07</u>	

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Attention _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724055

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 15/6/82

SAMPLE NUMBER	LOCATION / DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS			
			FROM	TO	Weight g.	% SN		
	<u>BL-13/00</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>90.9</u>	<u>0.02</u>		
		<u>"</u>	<u>2</u>	<u>4</u>	<u>115.3</u>	<u>0.01</u>		
		<u>"</u>	<u>4</u>	<u>6</u>	<u>90.0</u>	<u>0.06</u>		
		<u>very fine to fine, ilmenite</u>	<u>6</u>	<u>8</u>	<u>100.3</u>	<u>0.10</u>	<u>5.9</u>	
		<u>"</u>	<u>8</u>	<u>10</u>	<u>83.9</u>	<u>0.21</u>	<u>8.8</u>	
		<u>ilmenite</u>	<u>10</u>	<u>12</u>	<u>89.6</u>	<u>0.12</u>		
		<u>"</u>	<u>12</u>	<u>14</u>	<u>81.3</u>	<u>0.04</u>		
		<u>to fine, ilmenite, Blackjack</u>	<u>14</u>	<u>16</u>	<u>94.3</u>	<u>0.15</u>	<u>7.1</u>	
		<u>very fine to fine, pyrite</u>	<u>16</u>	<u>16.50</u>	<u>83.6</u>	<u>0.15</u>	<u>15.7</u>	
		<u>"</u>	<u>16.50</u>	<u>17</u>	<u>97.3</u>	<u>0.15</u>	<u>20.5</u>	

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Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

7224056

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G-N PLAINS Project No. _____ Sampled by S. MOORE Date 17/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight	%	wt Sn.
	<u>BL-13/02</u>	<u>Ilmenite</u>	<u>0</u>	<u>2</u>	<u>103.3</u>	<u>0.09</u>	<u>0.09</u>
		<u>"</u>	<u>2</u>	<u>4</u>	<u>89.3</u>	<u>0.07</u>	<u>0.06</u>
		<u>To Tin ilmenite</u>	<u>4</u>	<u>6</u>	<u>102.3</u>	<u>0.65</u>	<u>0.66</u>
		<u>ilmenite</u>	<u>6</u>	<u>8</u>	<u>118.7</u>	<u>0.07</u>	<u>0.08</u>
		<u>"</u>	<u>8</u>	<u>10</u>	<u>115.0</u>	<u>0.07</u>	<u>0.10</u>
		<u>"</u>	<u>10</u>	<u>12</u>	<u>97.8</u>	<u>0.16</u>	<u>0.16</u>
		<u>"</u>	<u>12</u>	<u>14</u>	<u>105.0</u>	<u>0.13</u>	<u>0.14</u>
		<u>very fine To Tin ilmenite</u>	<u>14</u>	<u>15</u>	<u>99.6</u>	<u>0.19</u>	<u>0.19</u>
		<u>To Tin ilmenite</u>	<u>15</u>	<u>15.50</u>	<u>84.9</u>	<u>0.69</u>	<u>0.59</u>
		<u>Small amount Tin ilmenite Black pyrite</u>	<u>15.50</u>	<u>16</u>	<u>97.4</u>	<u>1.52</u>	<u>1.28</u>
		<u>Tin ilmenite Black pyrite</u>	<u>16</u>	<u>16.50</u>	<u>99.6</u>	<u>2.43</u>	<u>2.42</u>
		<u>"</u>	<u>16.50</u>	<u>17</u>	<u>92.3</u>	<u>3.01</u>	<u>2.78</u>
		<u>To Tin ilmenite</u>	<u>17</u>	<u>17.50</u>	<u>105.5</u>	<u>0.21</u>	<u>0.22</u>
		<u>To ilmenite</u>	<u>17.50</u>	<u>18</u>	<u>90.0</u>	<u>0.04</u>	<u>0.04</u>
		<u>very fine To Tin ilmenite</u>	<u>18</u>	<u>18.50</u>	<u>118.0</u>	<u>0.07</u>	<u>0.11</u>
		<u>To Tin pyrite</u>	<u>18.50</u>	<u>19</u>	<u>97.0</u>	<u>0.09</u>	<u>0.96</u>
		<u>Small amount Tin pyrite</u>	<u>19</u>	<u>19.50</u>	<u>92.1</u>	<u>0.90</u>	<u>0.83</u>
		<u>To Tin pyrite</u>	<u>19.50</u>	<u>20</u>	<u>96.2</u>	<u>0.17</u>	<u>0.16</u>
		<u>very fine To Tin pyrite</u>	<u>20</u>	<u>20.50</u>	<u>87.1</u>	<u>0.16</u>	<u>0.14</u>
		<u>" " " " "</u>	<u>20.50</u>	<u>21</u>	<u>96.8</u>	<u>0.20</u>	<u>0.19</u>
		<u>" " " " "</u>	<u>21</u>	<u>22</u>	<u>90.0</u>	<u>0.23</u>	<u>0.21</u>

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Attention

Remarks

Detection limits

Place analysed Date analysed
Analyst

7224057

GENERAL SAMPLE DESCRIPTION

State TAS Project Name C.N. PLAINS Project No. _____ Sampled by S. MOORE Date 23/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g.	TOTAL VOL	% SN.	gm Sn.	g/m ³ Sn
	<u>B2-13/04</u>	<u>ilmenite.</u>	<u>0</u>	<u>2</u>	<u>100.0</u>	<u>12</u>	<u>0.09</u>	<u>0.09</u>	
		<u>very fine tin, ilmenite</u>	<u>2</u>	<u>4</u>	<u>82.9</u>	<u>14</u>	<u>0.08</u>	<u>0.07</u>	
		<u>ilmenite.</u>	<u>4</u>	<u>6</u>	<u>101.7</u>	<u>10</u>	<u>0.03</u>	<u>0.03</u>	
		<u>very fine tin, ilmenite.</u>	<u>6</u>	<u>8</u>	<u>92.8</u>	<u>20</u>	<u>0.09</u>	<u>0.08</u>	
		<u>" " " "</u>	<u>8</u>	<u>10</u>	<u>52.2</u>	<u>27</u>	<u>0.15</u>	<u>0.12</u>	
		<u>" " " "</u>	<u>10</u>	<u>12</u>	<u>98.3</u>	<u>26</u>	<u>0.06</u>	<u>0.06</u>	
		<u>Small amount tin, ilmenite.</u>	<u>12</u>	<u>14</u>	<u>84.9</u>	<u>53</u>	<u>1.17</u>	<u>0.99</u>	<u>18</u>
		<u>ilmenite.</u>	<u>14</u>	<u>16</u>	<u>89.3</u>	<u>32</u>	<u>0.08</u>	<u>0.07</u>	
		<u>Large amount tin, ilmenite, Blackpitch.</u>	<u>16</u>	<u>17</u>	<u>104.2</u>	<u>20</u>	<u>18.75</u>	<u>19.52</u>	
		<u>" " " "</u>	<u>17</u>	<u>17.25</u>	<u>87.9</u>	<u>9</u>	<u>5.81</u>	<u>5.18</u>	
		<u>Tin, Gold, Blackpitch, pyrite.</u>	<u>17.25</u>	<u>18</u>	<u>106.2</u>	<u>16</u>	<u>2.60</u>	<u>2.76</u>	
		<u>Small amount tin, Gold, pyrite.</u>	<u>18</u>	<u>18.50</u>	<u>87.5</u>	<u>17</u>	<u>2.07</u>	<u>1.69</u>	
		<u>" " " "</u>	<u>18.50</u>	<u>19</u>	<u>96.1</u>	<u>17</u>	<u>6.19</u>	<u>5.95</u>	
		<u>" " " "</u>	<u>19</u>	<u>19.50</u>	<u>84.8</u>	<u>8</u>	<u>3.02</u>	<u>2.71</u>	
		<u>" " " "</u>	<u>19.50</u>	<u>20</u>	<u>98.1</u>	<u>17</u>	<u>0.76</u>	<u>2.71</u>	
		<u>Tr. Tin, Blackpitch, pyrite.</u>	<u>20</u>	<u>20.50</u>	<u>84.3</u>	<u>7</u>	<u>0.71</u>	<u>0.71</u>	
		<u>Tr. Tin, pyrite</u>	<u>20.50</u>	<u>21</u>	<u>106.2</u>	<u>12</u>	<u>0.33</u>	<u>0.34</u>	
		<u>" " "</u>	<u>21</u>	<u>21.50</u>	<u>86.7</u>	<u>7</u>	<u>0.33</u>	<u>0.30</u>	
		<u>Small amount tin, pyrite</u>	<u>21.50</u>	<u>22</u>	<u>95.6</u>	<u>10</u>	<u>1.84</u>	<u>1.76</u>	
		<u>Tr. Tin, pyrite</u>	<u>22</u>	<u>22.50</u>	<u>91.3</u>	<u>14</u>	<u>0.99</u>	<u>0.90</u>	
		<u>very fine tin, pyrite.</u>	<u>22.50</u>	<u>23</u>	<u>90.7</u>	<u>20</u>	<u>0.30</u>	<u>0.27</u>	<u>13.5</u>
		<u>pyrite</u>	<u>23</u>	<u>23.50</u>	<u>91.4</u>	<u>5</u>	<u>0.12</u>	<u>0.11</u>	
		<u>"</u>	<u>23.50</u>	<u>24</u>	<u>112.1</u>	<u>2</u>	<u>0.03</u>	<u>0.03</u>	
		<u>"</u>	<u>24</u>	<u>24.50</u>	<u>104.9</u>	<u>3</u>	<u>0.02</u>	<u>0.02</u>	

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One copy of results to:
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Attention:

Remarks

Detection limits

Place analysed Date analysed
Analyst

724058

GENERAL SAMPLE DESCRIPTION

State T.A.S. Project Name G-N PLAINS Project No. Sampled by S MOORE Date

Table with columns: SAMPLE NUMBER, LOCATION/DRILL HOLE NUMBER, SAMPLE DESCRIPTION, DRILLING METERAGE (FROM, TO), ANALYSIS (Weight g, % Sn, UASn). Rows contain sample data for BL-13/06 with various mineral descriptions like ilmenite and pyrite.

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One copy of results to: Attention:

Remarks

Detection limits, Place analysed, Date analysed, Analyst

724059

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 8/7/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	WEIGHT g	% SN.	WT Sn(g)
	<u>BL-13/08</u>	<u>To ilmenite</u>	<u>0</u>	<u>2</u>	<u>100.0</u>	<u>0.02</u>	<u>0.02</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>122.2</u>	<u>0.02</u>	<u>0.02</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>4</u>	<u>6</u>	<u>90.6</u>	<u>1.02</u>	<u>0.92</u>
		<u>Tin, ilmenite, Blackjack</u>	<u>6</u>	<u>8</u>	<u>107.2</u>	<u>2.77</u>	<u>2.97</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>8</u>	<u>9</u>	<u>89.0</u>	<u>1.08</u>	<u>0.96</u>
		<u>very fine to Tin, ilmenite, Blackjack</u>	<u>9</u>	<u>9.50</u>	<u>97.8</u>	<u>0.14</u>	<u>0.14</u>
		<u>" " " " " "</u>	<u>9.50</u>	<u>10</u>	<u>100.0</u>	<u>0.12</u>	<u>0.12</u>
		<u>" " " " " "</u>	<u>10</u>	<u>10.50</u>	<u>100.6</u>	<u>0.13</u>	<u>0.13</u>
		<u>" " " " " "</u>	<u>10.50</u>	<u>11</u>	<u>112.1</u>	<u>0.12</u>	<u>0.13</u>
		<u>To Tin, Gold, ilmenite, Blackjack</u>	<u>11</u>	<u>11.50</u>	<u>87.9</u>	<u>0.65</u>	<u>0.57</u>
		<u>very fine to Tin, ilmenite, Blackjack</u>	<u>11.50</u>	<u>12</u>	<u>82.5</u>	<u>0.20</u>	<u>0.17</u>
		<u>" " " " " "</u>	<u>12</u>	<u>12.50</u>	<u>88.2</u>	<u>0.32</u>	<u>0.28</u>
		<u>very fine to Tin, Pyrite</u>	<u>12.50</u>	<u>13</u>	<u>98.9</u>	<u>0.82</u>	<u>0.81</u>
		<u>" " " " " "</u>	<u>13</u>	<u>13.50</u>	<u>93.3</u>	<u>0.23</u>	<u>0.21</u>
		<u>Pyrite</u>	<u>13.50</u>	<u>14</u>	<u>82.6</u>	<u>0.11</u>	<u>0.09</u>
		<u>" "</u>	<u>14</u>	<u>15</u>	<u>80.0</u>	<u>0.10</u>	<u>0.08</u>

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Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

724060

gross to allowed ton
Field *eg*

GENERAL SAMPLE DESCRIPTION

SHEET No 0961

State TAS Project Name GN PLAINS Project No. _____ Sampled by S. Moore Date 20/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g.	% SN
	<u>BK-14/10</u>	<u>Fr ilmenite</u>	<u>0</u>	<u>2</u>	<u>65.0</u>	<u>0.05</u>
		<u>" "</u>	<u>2</u>	<u>4</u>	<u>76.0</u>	<u>0.03</u>
		<u>very fine Fr tin, ilmenite</u>	<u>4</u>	<u>6</u>	<u>70.7</u>	<u>0.25</u>
		<u>Fr tin, ilmenite</u>	<u>6</u>	<u>8</u>	<u>75.0</u>	<u>0.30</u>
		<u>Fr tin, ilmenite, pyrite</u>	<u>8</u>	<u>10</u>	<u>115.7</u>	<u>0.16</u>
		<u>" " "</u>	<u>10</u>	<u>12</u>	<u>75.0</u>	<u>0.65</u>
		<u>" " "</u>	<u>12</u>	<u>13</u>	<u>91.7</u>	<u>0.26</u>
		<u>very fine Fr tin, pyrite</u>	<u>13</u>	<u>13.50</u>	<u>107.6</u>	<u>0.08</u>
		<u>pyrite</u>	<u>13.50</u>	<u>14</u>	<u>100.1</u>	<u>0.04</u>
		<u>" "</u>	<u>14</u>	<u>14.50</u>	<u>99.7</u>	<u>0.03</u>

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North Sydney N.S.W. 2060

One copy of results to:
.....
Attention.....

Remarks

Detection limits
Place analysed..... Date analysed.....
Analyst.....

724061

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 10-5-1982

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	WEIGHT G.	% SN
	BL-14/12	To ilmenite	0	2	101.4	0.92 - 0.62
		ilmenite.	2	4	85.2	0.73 - 0.62
		"	4	6	107.0	0.21 - 0.22
		Fe Fin ilmenite, B. Jack	6	7	120.5	1.51 - 1.92
		Fin ilmenite Blackish	7	7.50	116.5	2.32 - 2.70
		Small amount of ilmenite Blackish	7.50	8	71.7	1.63 - 1.60
		To Fin ilmenite, Blackish	8	8.50	101.1	0.70 - 0.75
		sample to Fin ilmenite, Blackish	8.50	10.50	101.4	0.19 - 0.20
		ilmenite	10.50	12.50	75.7	0.10 - 0.10
		"	12.50	14.50	101.2	0.05 - 0.05
	Fe Fin ilmenite	14.50	15.50	96.6	0.11 - 0.11	
	Pyrite	15.50	16	70.1	0.10 - 0.10	
	"	16	16.50	111.7	0.12 - 0.12	
	To Fin Pyrite	16.50	17	73.0	1.49 - 1.39	
	" " "	17	17.50	124.6	0.77 - 0.96	
	" " "	17.50	18	121.1	0.71 - 0.58	

Invoice and 2 copies of results to Amdex Mining Ltd. P.O. Box 147, North Sydney N.S.W. 2060	One copy of results to: _____	Remarks _____	Detection limits _____	
	Attention: _____		Place analysed: _____	Date analysed: _____

7224062

8 to approval form
Field

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0956

State TAS Project Name G.N. PLAINS Project No. Sampled by S. MOORE Date 17/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g	% SW			
	BL-14/14	Fe. chromite	0	2	112.7	0.04			
		chromite	2	4	112.5	0.09			
		Fe. chromite	4	6	111.5	0.09			
		Small amount Fe. chromite	6	7	114.5	0.91			
		" " "	7	8	110.6	1.33			
		" " "	8	8.50	130.0	1.16			
		" " "	8.50	9	101.7	1.23			
		Fe. chromite	9	9.50	97.0	0.31			
		" " "	9.50	10	75.0	0.23			
		scrap Fe. chromite	10	10.50	104.0	0.01			
		" " " pyrite	10.50	11	70.4	0.01			
		chromite, pyrite	11	11.50	87.6	0.05			
		" " "	11.50	12	87.1	0.03			
		" " "	12	12.50	101.0	0.03			
		pyrite	12.50	13	105.0	0.02			
		" "	13	13.50	61.0	0.01			
		" "	13.50	14.50	112.3	0.01			
		Fe. chromite	14.50	15.50	97.5	0.952 (0.92)			
		Fe. chromite, pyrite	15.50	16	99.5	0.79			
		Fe. chromite, pyrite	16	16.50	107.7	0.18			
		" " "	16.50	17	90.6	0.10			
		pyrite	17	17.50	70.5	0.11			
		" "	17.50	18	105.2	0.04			

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North Sydney N.S.W. 2060

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.....
Attention:

Remarks

Detection limits

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Place analysed Date analysed

Analyst

724063

7' to above Fin
Laboratory *log*

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0950

State *TAS* Project Name *G. N. PLAINS* Project No. Sampled by *S. Moore* Date *12/5/82*

SAMPLE NUMBER	LOCATION/DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g.	% Sn
	<i>B4-14/16</i>	<i>To ilmenite</i>	<i>0</i>	<i>2</i>	<i>96.2</i>	<i>0.05</i>
		<i>" "</i>	<i>2</i>	<i>4</i>	<i>111.5</i>	<i>0.04</i>
		<i>ilmenite</i>	<i>4</i>	<i>6</i>	<i>147.8</i>	<i>0.02</i>
		<i>" "</i>	<i>6</i>	<i>8</i>	<i>125.1</i>	<i>0.04</i>
		<i>" "</i>	<i>8</i>	<i>10</i>	<i>97.2</i>	<i>0.04</i>
		<i>" "</i>	<i>10</i>	<i>12</i>	<i>102.5</i>	<i>0.09</i>
		<i>Gr fin ilmenite</i>	<i>12</i>	<i>14</i>	<i>110.0</i>	<i>0.22</i>
		<i>To fin ilmenite</i>	<i>14</i>	<i>16</i>	<i>94.0</i>	<i>0.25</i>
		<i>Small amount fin ilmenite Blackjack</i>	<i>16</i>	<i>17</i>	<i>88.0</i>	<i>0.82</i>
		<i>fin ilmenite Blackjack</i>	<i>17</i>	<i>17.50</i>	<i>110.4</i>	<i>1.81</i>
		<i>" "</i>	<i>17.50</i>	<i>18</i>	<i>106.0</i>	<i>1.80</i>
		<i>Small amount fin ilmenite Blackjack</i>	<i>18</i>	<i>18.50</i>	<i>81.1</i>	<i>1.09</i>
		<i>To fin ilmenite Blackjack</i>	<i>18.50</i>	<i>19</i>	<i>133.9</i>	<i>0.34</i>
		<i>" " " " " "</i>	<i>19</i>	<i>19.50</i>	<i>110.3</i>	<i>0.98</i>
		<i>" " " " " "</i>	<i>19.50</i>	<i>20</i>	<i>101.6</i>	<i>0.71</i>
		<i>Large amount fin ilmenite Blackjack</i>	<i>20</i>	<i>20.50</i>	<i>97.8</i>	<i>8.94</i>
		<i>" " " " " "</i>	<i>20.50</i>	<i>21</i>	<i>103.9</i>	<i>5.77</i>
		<i>fin Blackjack pyrite</i>	<i>21</i>	<i>21.50</i>	<i>103.5</i>	<i>1.95</i>
		<i>Gr fin pyrite</i>	<i>21.50</i>	<i>22</i>	<i>90.8</i>	<i>0.26</i>

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One copy of results to: _____

Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

100001

to allow for tin log
Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0948

State TAS Project Name G-N PLAINS Project No. _____ Sampled by S. MOORE Date 11/5/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g	% Sn
	<u>BL-14/18</u>	<u>Ilmenite</u>	<u>0</u>	<u>2</u>	<u>102.2</u>	<u>0.06</u>
		<u>Il</u>	<u>2</u>	<u>4</u>	<u>108.6</u>	<u>0.04</u>
		<u>very fine Fe Tin ilmenite</u>	<u>4</u>	<u>6</u>	<u>108.9</u>	<u>0.11</u>
		<u>Fe Tin, pyrite ilmenite</u>	<u>6</u>	<u>7</u>	<u>129.6</u>	<u>0.78</u>
		<u>Fe Tin, pyrite</u>	<u>7</u>	<u>7.50</u>	<u>98.0</u>	<u>0.74</u>
		<u>Small amount, pyrite</u>	<u>7.50</u>	<u>8.50</u>	<u>99.2</u>	<u>0.72</u>
		<u>Fe Tin pyrite</u>	<u>8.50</u>	<u>9.50</u>	<u>98.7</u>	<u>0.77</u>
		<u>very fine Fe Tin, pyrite</u>	<u>9.50</u>	<u>10.50</u>	<u>110.0</u>	<u>0.24</u>
		<u>pyrite</u>	<u>10.50</u>	<u>11.50</u>	<u>88.6</u>	<u>0.15</u>
		<u>"</u>	<u>11.50</u>	<u>12.50</u>	<u>119.0</u>	<u>0.03</u>
		<u>ilmenite, pyrite</u>	<u>12.50</u>	<u>13.50</u>	<u>108.9</u>	<u>0.03</u>
		<u>Fe Tin, pyrite, ilmenite</u>	<u>13.50</u>	<u>14.50</u>	<u>112.0</u>	<u>0.71</u>
		<u>Tin, ilmenite, Blackjack</u>	<u>14.50</u>	<u>15</u>	<u>117.0</u>	<u>1.99</u>
		<u>Small amount Fe ilmenite, pyrite</u>	<u>15</u>	<u>15.50</u>	<u>84.7</u>	<u>1.58</u>
		<u>Fe Tin, pyrite</u>	<u>15.50</u>	<u>16</u>	<u>105.9</u>	<u>0.92</u>

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One copy of results to: _____

Attention: _____

Remarks: _____

Detection limits: _____

Place analysed: _____ Date analysed: _____

Analyst: _____

724065

0 to alluvial tin log.
Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0944

State TAS Project Name G.N PLAINS Project No. Sampled by S. MOORE Date 7/5/62

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g.	% Sn
	BL-14/20	<i>Zr ilmenite</i>	0	2	122.5	0.07
		<i>ilmenite</i>	2	4	120.5	0.04
		"	4	6	94.3	0.03
		"	6	8	90.3	0.07
		<i>very fine Zr Tin, ilmenite</i>	8	10	111.7	0.10
		<i>very fine Zr Tin, ilmenite</i>	10	11	94.0	0.33
		<i>Zr Tin ilmenite</i>	11	12	96.3	0.30
		<i>Zr Tin, ilmenite, Blackjack</i>	12	12.50	94.5	0.32
		" " "	12.50	13	97.6	0.24
		<i>Small amount Tin, ilmenite, Blackjack</i>	13	13.50	122.3	1.48
		" " "	13.50	14	89.2	1.16
		<i>(Coarse Tin) Zr Tin, ilmenite, Blackjack</i>	14	14.50	109.9	2.87
		<i>" Tin, Bk, Blackjack Pyrite</i>	14.50	15	120.6	3.09
		<i>" Small amount Tin Pyrite</i>	15	15.50	105.0	1.55
		<i>Zr Tin Pyrite</i>	15.50	16	130.0	0.31
		<i>very fine Zr Tin, pyrite</i>	16	16.50	110.0	0.25
		<i>pyrite</i>	16.50	17	102.7	0.20
	<i>Zr coarse Tin, pyrite</i>	17	17.50	144.9	0.30	

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Attention

Remarks

Detection limits

Place analysed Date analysed

Analyst

292030

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 17-5-82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	weight g	% SN.	wtSn.
	<u>S.B. 1</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>74.0</u>	<u>0.02</u>	<u>0.01</u>
		<u>"</u>	<u>2</u>	<u>4</u>	<u>96.3</u>	<u>0.02</u>	<u>0.02</u>
		<u>"</u>	<u>4</u>	<u>6</u>	<u>89.6</u>	<u>0.02</u>	<u>0.02</u>
		<u>"</u>	<u>6</u>	<u>8</u>	<u>76.3</u>	<u>0.04</u>	<u>0.03</u>
		<u>"</u>	<u>8</u>	<u>10</u>	<u>84.0</u>	<u>0.09</u>	<u>0.08</u>
		<u>ilmenite</u>	<u>10</u>	<u>12</u>	<u>98.6</u>	<u>0.05</u>	<u>0.05</u>
		<u>"</u>	<u>12</u>	<u>14</u>	<u>112.1</u>	<u>0.16</u>	<u>0.18</u>
		<u>ilmenite Blackjack</u>	<u>14</u>	<u>14.50</u>	<u>111.0</u>	<u>0.11</u>	<u>0.12</u>
		<u>"</u>	<u>14.50</u>	<u>15</u>	<u>89.9</u>	<u>0.14</u>	<u>0.13</u>
		<u>"</u>	<u>15</u>	<u>15.50</u>	<u>119.0</u>	<u>0.07</u>	<u>0.08</u>
		<u>"</u>	<u>15.50</u>	<u>16</u>	<u>123.2</u>	<u>0.07</u>	<u>0.09</u>
		<u>"</u>	<u>16</u>	<u>16.50</u>	<u>108.1</u>	<u>0.07</u>	<u>0.08</u>
		<u>"</u>	<u>16.50</u>	<u>17.50</u>	<u>141.5</u>	<u>0.07</u>	<u>0.10</u>
		<u>small amount tin ilmenite</u>	<u>17.50</u>	<u>18</u>	<u>103.3</u>	<u>2.49</u>	<u>2.57</u>
		<u>Tin Gold ilmenite Blackjack</u>	<u>18</u>	<u>18.50</u>	<u>83.1</u>	<u>4.84</u>	<u>4.02</u>
		<u>"</u>	<u>18.50</u>	<u>19</u>	<u>110.2</u>	<u>2.85</u>	<u>3.14</u>
		<u>large amount tin ilmenite Blackjack</u>	<u>19</u>	<u>19.50</u>	<u>95.4</u>	<u>7.75</u>	<u>7.39</u>
		<u>"</u>	<u>19.50</u>	<u>20</u>	<u>113.6</u>	<u>8.70</u>	<u>9.88</u>
		<u>Tin ilmenite Blackjack</u>	<u>20</u>	<u>20.50</u>	<u>104.0</u>	<u>3.13</u>	<u>3.26</u>
		<u>Small amount tin ilmenite Blackjack</u>	<u>20.50</u>	<u>21</u>	<u>102.0</u>	<u>1.34</u>	<u>1.38</u>
		<u>tin ilmenite</u>	<u>21</u>	<u>21.50</u>	<u>123.2</u>	<u>1.00</u>	<u>1.23</u>
		<u>"</u>	<u>21.50</u>	<u>22</u>	<u>99.7</u>	<u>0.66</u>	<u>0.66</u>
		<u>"</u>	<u>22</u>	<u>22.50</u>	<u>122.0</u>	<u>0.22</u>	<u>0.27</u>
		<u>"</u>	<u>22.50</u>	<u>23</u>	<u>109.6</u>	<u>0.25</u>	<u>0.27</u>
		<u>"</u>	<u>23</u>	<u>23.50</u>	<u>102.7</u>	<u>0.26</u>	<u>0.27</u>

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Attention: _____

Remarks

Detection limits

Place analysed

Date analysed

Analyst

GENERAL SAMPLE DESCRIPTION

SHEET No 0957

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 17-5-1982

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS			
			FROM	TO	WEIGHT G.	% S	% N	
	S-B-1	small amount fine, almost black	23.50	24	123.6	1.32	1.63	
		" " " " " "	24	24.50	107.3	2.10	2.15	
		" " " " " "	24.50	25	97.1	1.33	1.34	
		to fine, ilmenite	25	25.50	91.5	0.82	0.75	
		very fine to fine, ilmenite	25.50	26	115.3	0.17	0.20	
		" " " " " "	26	26.50	94.2	0.11	0.10	
		" " " " " "	26.50	27.50	116.9	0.10	0.11	
		to fine, pyrite	27.50	28	96.7	0.10	0.10	
		fine " " " "	28	28.50	91.3	0.68	0.62	
		pyrite	28.50	29.50	112.7	0.07		
			29.50	30.50	97.7	0.06		

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Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____

Analyst _____

724068

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 21-5-82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS		
			FROM	TO	Weight g	% Sn	
	S.B. 2	ilmenite	0	2	90.4	0.03	
		"	2	4	112.6	0.02	
		"	4	6	104.5	0.02	
		"	6	8	111.7	0.04	
		"	8	10	89.6	0.04	
		"	"	10	12	101.4	0.06
		"	"	12	14	88.8	0.05
		"	"	14	16	84.3	0.05
		"	very fine tin, ilmenite	16	18	111.1	0.26
		"	tin, ilmenite	18	18.50	102.0	0.70
	"	" " "	18.50	19	91.7	0.19	
	"	" " "	19	19.50	103.7	0.23	
	"	" " "	19.50	20	96.5	0.31	
	"	" " "	20	20.50	105.0	0.92	
	"	Small amount tin, ilmenite	20.50	21	110.3	1.16	
	"	Small amount tin, ilmenite, Blackjack	21	21.50	87.1	1.31	
	"	" " " " " "	21.50	22	104.2	0.83	
	"	" " " " " "	22	22.50	121.6	0.94	
	"	" " " " " "	22.50	23	82.8	1.23	
	"	tin, ilmenite, Blackjack	23	23.50	101.5	2.88	
	"	" " "	23.50	24	98.1	3.39	
	"	" " "	24	24.50	92.0	3.49	
	"	tin, pyrite, Black-jack	24.50	25	90.0	2.04	
	"	Small amount tin, Pyrite, Blackjack	25	25.50	96.2	0.95	

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Remarks

Detection limits _____
Place analysed _____ Date analysed _____
Analyst _____

7220030

GENERAL SAMPLE DESCRIPTION

State TAS. Project Name G.N PLAINS Project No. _____ Sampled by S. MOORE Date 26/5/82.

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	Weight g	% Sn
	<u>S.B.3</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>81.1</u>	<u>0.03</u>
		<u>"</u>	<u>2</u>	<u>4</u>	<u>102.3</u>	<u>0.05</u>
		<u>"</u>	<u>4</u>	<u>6</u>	<u>97.4</u>	<u>0.02</u>
		<u>"</u>	<u>6</u>	<u>8</u>	<u>109.1</u>	<u>0.03</u>
		<u>"</u>	<u>8</u>	<u>10</u>	<u>94.1</u>	<u>0.02</u>
		<u>"</u>	<u>10</u>	<u>12</u>	<u>113.9</u>	<u>0.02</u>
		<u>"</u>	<u>12</u>	<u>14</u>	<u>77.3</u>	<u>0.04</u>
		<u>"</u>	<u>14</u>	<u>16</u>	<u>98.2</u>	<u>0.06</u>
		<u>"</u>	<u>16</u>	<u>18</u>	<u>78.2</u>	<u>0.06</u>
		<u>"</u>	<u>18</u>	<u>20</u>	<u>95.1</u>	<u>0.05</u>
		<u>Tr Tin, ilmenite</u>	<u>20</u>	<u>22</u>	<u>95.1</u>	<u>0.29</u>
		<u>small amount Tin, ilmenite</u>	<u>22</u>	<u>22.50</u>	<u>84.7</u>	<u>1.93</u>
		<u>" " "</u>	<u>22.50</u>	<u>23</u>	<u>112.3</u>	<u>1.61</u>
		<u>Tin, ilmenite, Black pack</u>	<u>23</u>	<u>23.50</u>	<u>87.5</u>	<u>1.75</u>
		<u>" " "</u>	<u>23.50</u>	<u>24</u>	<u>79.4</u>	<u>2.65</u>
		<u>" " "</u>	<u>24</u>	<u>24.50</u>	<u>102.5</u>	<u>1.56</u>
		<u>small amount Tin, ilmenite</u>	<u>24.50</u>	<u>25</u>	<u>76.4</u>	<u>1.77</u>
		<u>Tr Tin, ilmenite</u>	<u>25</u>	<u>25.50</u>	<u>119.6</u>	<u>0.69</u>
		<u>" " "</u>	<u>25.50</u>	<u>26</u>	<u>116.0</u>	<u>0.27</u>
		<u>Small amount Tin, ilmenite, Black pack</u>	<u>26</u>	<u>26.50</u>	<u>95.6</u>	<u>1.77</u>
		<u>" " "</u>	<u>26.50</u>	<u>27</u>	<u>96.7</u>	<u>1.42</u>
		<u>" " "</u>	<u>27</u>	<u>27.50</u>	<u>87.2</u>	<u>1.20</u>
		<u>Tr Tin, ilmenite</u>	<u>27.50</u>	<u>28</u>	<u>106.2</u>	<u>0.73</u>
		<u>" " "</u>	<u>28</u>	<u>28.50</u>	<u>92.6</u>	<u>0.27</u>
		<u>very fine Tr Tin, ilmenite</u>	<u>28.50</u>	<u>29</u>	<u>121.2</u>	<u>0.20</u>

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P.O. Box 147,
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Remarks

Detection limits
Place analysed _____ Date analysed _____
Analyst _____

724071

GENERAL SAMPLE DESCRIPTION

SHEET No 0970

State TAS Project Name G.N.P.M.I.N.S. Project No. _____ Sampled by S. MOORE Date 3/6/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS	
			FROM	TO	weight g	% SN.
	<u>S.B.4</u>	<u>ilmenite</u>	<u>0</u>	<u>2</u>	<u>107.8</u>	<u>0.03</u>
		<u>"</u>	<u>2</u>	<u>4</u>	<u>83.3</u>	<u>0.02</u>
		<u>"</u>	<u>4</u>	<u>6</u>	<u>93.2</u>	<u>0.02</u>
		<u>"</u>	<u>6</u>	<u>8</u>	<u>116.8</u>	<u>0.02</u>
		<u>"</u>	<u>8</u>	<u>10</u>	<u>80.3</u>	<u>0.07</u>
		<u>"</u>	<u>10</u>	<u>12</u>	<u>95.8</u>	<u>0.06</u>
		<u>"</u>	<u>12</u>	<u>14</u>	<u>117.8</u>	<u>0.05</u>
		<u>"</u>	<u>14</u>	<u>16</u>	<u>110.5</u>	<u>0.05</u>
		<u>very fine Tin, ilmenite</u>	<u>16</u>	<u>18</u>	<u>105.2</u>	<u>0.01</u>
		<u>very fine Tin, ilmenite</u>	<u>18</u>	<u>20</u>	<u>109.7</u>	<u>0.12</u>
		<u>" " "</u>	<u>20</u>	<u>20.50</u>	<u>103.5</u>	<u>0.04</u>
		<u>ilmenite</u>	<u>20.50</u>	<u>21</u>	<u>107.9</u>	<u>0.04</u>
		<u>"</u>	<u>21</u>	<u>22</u>	<u>90.0</u>	<u>0.04</u>
		<u>"</u>	<u>22</u>	<u>23</u>	<u>88.8</u>	<u>0.03</u>
		<u>"</u>	<u>23</u>	<u>24</u>	<u>98.3</u>	<u>0.02</u>
		<u>"</u>	<u>24</u>	<u>25</u>	<u>110.8</u>	<u>0.07</u>
		<u>"</u>	<u>25</u>	<u>26</u>	<u>114.6</u>	<u>0.06</u>
		<u>very fine Tin, pyrite</u>	<u>26</u>	<u>27</u>	<u>97.3</u>	<u>0.16</u>
		<u>pyrite</u>	<u>27</u>	<u>28</u>	<u>87.7</u>	<u>0.16</u>

Invoice and 2 copies of results to
Amdex Mining Ltd.
P.O. Box 147,
North Sydney N.S.W. 2060

One copy of results to:

Attention: _____

Remarks

Detection limits

Place analysed _____ Date analysed _____
Analyst _____

724073

APPENDIX II

BULK SAMPLE HOLE ASSAY METALLURGICAL DATA



The Australian
Mineral Development
Laboratories

Flemington Street, Frewville,
South Australia 5063
Phone Adelaide 79 1662
Telex AA 82520

Please address all
correspondence to
P.O. Box 114 Eastwood
SA 5063
In reply quote:

724075

amdel

22 June 1982

GS 3/520/0

Santos Limited, -
GPO Box 2319,
ADELAIDE, SA 5001.

Attention: Mr S. Lee

REPORT GS 6104/82

YOUR REFERENCE: Letter dated 18 May 1982
MATERIAL: Alluvial sands
IDENTIFICATION: CDH4, 5
DATE RECEIVED: 18 May 1982
WORK REQUIRED: Screening, Au and Sn assays

Investigation and Report by: Dr Alan Webb

Chief - Geological Services Section: Dr Keith J. Henley
Manager, Mineral and Materials Sciences Division: Dr William G. Spencer

Acting Chief
Geological Services Section
for Norton Jackson
Managing Director

Head Office:
Flemington Street, Frewville
South Australia 5063,
Telephone (08) 79 1662
Telex: Amdel AA82520
Pilot Plant:
Osman Place
Thebarton, S.A.
Telephone (08) 43 8053
Branch Laboratories:
Melbourne, Vic.
Telephone (03) 645 3093
Perth, W.A.
Telephone (09) 325 7311
Townsville
Queensland 4814
Telephone (077) 75 1377

jd/2

Au and Sn ASSAYS OF SCREENED COMPOSITES OF ALLUVIAL SANDS

1. INTRODUCTION

Seventeen samples of alluvial sand were received from Mr S. Lee, Santos Limited, with a request to screen the samples into five size ranges and to carry out assays for Au and Sn on these fractions. The samples represented intervals from two drill holes - CDH4 (11 samples) and CDH5 (6 samples). The samples from each drill hole were to be recombined to form two composite samples to produce sufficient material for the required work programme.

2. PROCEDURES

The samples from each hole were recombined, weighed and dry screened at 500, 250, 150 and 75 μm and the resulting size fractions weighed.

The screened samples $>75 \mu\text{m}$ were amalgamated by rolling in a bottle containing Hg for two to three hours and the Hg recovered from the residues by panning.

Chemical analyses were then made on the amalgams, residues and the $-75 \mu\text{m}$ fractions as follows:

- (1) The amalgams were assayed for Au.
- (2) The residues were pulverised and in the case of the larger samples, approximately 200 g of the pulverised material was riffled out and repulverised. The samples were then split and used for Au (fire assay) and Sn (XRF) determinations.
- (3) The $-75 \mu\text{m}$ fractions were pulverised and split for Au and Sn assay as for the preceding group of samples.

3. RESULTS

The grain size distribution of the two composite samples is given in Table 1.

TABLE 1: GRAIN SIZE DISTRIBUTION OF COMPOSITE ALLUVIAL SANDS

Drill Hole	Initial Wt. (g)	Wt. %				
		+500 μm	-500 +250 μm	-250 +150 μm	-150 +75 μm	-75 μm
CDH4	2331.9	11.55	31.16	45.31	11.81	0.17
CDH5	1204.6	17.44	29.24	40.42	12.59	0.31

Table 2 lists the results of the Au assays on the amalgams, residues and -75 μm material and the Sn analyses of the residues and -75 μm fractions.

TABLE 2: Au AND Sn ANALYSES ON AMALGAMS AND RESIDUES OF THE SCREENED SAMPLES

	Au (g/t)		Sn (%) ³ Residues	Sample Wt. %
	¹ Amalgams	² Residues		
<u>CDH4</u>				
+500 μm	2.55	0.140	1.06	11.55
-500+250 μm	0.709	0.130	2.61	31.16
-250+150 μm	0.769	0.165	10.7	45.31
-150+75 μm	4.03	0.260	19.1	11.81
-75 μm^*	-	74.8	5.53	0.17
<u>CDH5</u>				
+500 μm	0.409	0.105	3.01	17.44
-500+250 μm	2.81	0.210	18.8	29.24
-250+150 μm	1.98	0.220	22.9	40.42
-150+75 μm	6.34	0.110	25.0	12.59
-75 μm^*	-	48.0	5.03	0.31

* Not amalgamated.

1. A.A.S.

2. Fire Assay

3. XRF

READINGS OF LISMORE PTY. LTD.

RESEARCH AND DEVELOPMENT LABORATORIES

LISMORE, N.S.W. AUSTRALIA

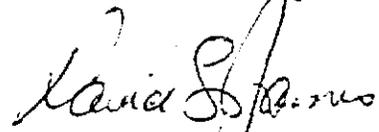
APPROVED RESEARCH ORGANISATION No. 412

REPORT No.: 2226

SUBJECT: PRELIMINARY ASSESSMENT OF TWENTY-THREE JIG
CONCENTRATE SAMPLES

CLIENT: SANTOS LTD.

Testwork & Report by:



D.G. JAMES
RESEARCH METALLURGIST

May, 1982.

ABSTRACT AND SUMMARY

Twenty-three jig concentrates were subject to a flowsheet involving sink-float separation and low intensity scalping. The resultant heavy mineral fractions were assayed for tin and gold and composited into two heavy mineral concentrates. Each of these was sized into six fractions which were assayed chemically and mineralogically.

The following metallurgical interpretations were made with respect to the heavy minerals:

- (a) there is a need to screen any wet plant concentrate into several sizes for treatment since there are variations in the mineral assemblages between sizes.
- (b) the gold and cassiterite are relatively fine, necessitating the use of wet gravity concentration techniques appropriate to their size.

A preliminary flowsheet is formulated, based upon these interpretations.

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2. TERMS OF REFERENCE	1.
3. SAMPLE TREATMENT	1.
4. METALLURGICAL INTERPRETATION OF ASSAYS	6.
4:1 Variation of Mineral Assemblage with Size	6.
4:2 Fineness of the Cassiterite and Gold	7.
5. PRELIMINARY DRY MILL FLOWSHEET	8.

APPENDIX I: SANTOS LTD. LETTER

APPENDIX II: ASSAY CERTIFICATES

APPENDIX III: COMPOSITING OF TWO HEAVY MINERAL CONCENTRATES

APPENDIX IV: CENTRAL MINERALOGICAL SERVICES REPORT.

1. INTRODUCTION

Twenty-three jig concentrates prepared by jig concentration were supplied by the client for evaluation.

The client is referred to the metallurgical flowsheet recommended for the treatment of such concentrates. This is found in lift-out form at the end of the body of the report.

2. TERMS OF REFERENCE

These were outlined in written communication from the client. A copy of the letter is enclosed in Appendix I.

Subsequent to receipt of the letter and following telephone discussion with the Senior Geologist of Santos it was decided to:

- (a) conduct tin and gold assays on the heavy mineral fraction of each sample, and
- (b) prepare two composite heavy mineral samples, one from each hole, for mineralogical analysis on a size basis.

3. SAMPLE TREATMENT

Each sample was sized at 1400 microns into two splits to enable* the efficient sink-float separation** of the bulk

*enable: *The presence of coarse granular material would otherwise block the holes in the stop cocks of the separating funnels. The oversize fractions were sink-floated in beakers.*

**separation: *bromoforn*

of the sample (undersize). Highly susceptibles - consisting of scrap iron, welding slag, tramp iron, magnetite etc., - were removed from each heavy mineral fraction, with oversize and undersize being combined back together to give one highly susceptible product, one quartz product, and one heavy mineral product for each sample.

Each heavy mineral product was split to give a 20 - 30 gram sample for chemical analysis, a fraction* for the hole composite (if sufficient), and a duplicate (if sufficient). The results** of the chemical assays of each heavy mineral product are outlined in Table 1.

Table 1.
Chemical Analysis of Heavy Mineral Products

HOLE	INTERVAL	ASSAY	
		Sn%	Au ppm
CDH2	14.1 - 15.1	2.29	4.1
	15.1 - 15.27	17.7	1.6
	15.27 - 16.27	22.8	3.4
	16.27 - 16.77	16.1	0.3
	16.77 - 16.87	18.6	< 0.1
	16.87 - 17.87	25.0	19.5
	17.87 - 18.87	16.2	10.0
	18.87 - 19.04	16.2	2.4
	19.04 - 20.54	21.1	< 0.1
	20.54 - 23.94	1.62	< 0.1

*fraction: Details of the weights used are outlined in Appendix III.

**results: Assay Certificate located in Appendix II.

CDH6	0 - 1.0	20.6	< 0.1
	1.0 - 2.0	19.6	< 0.1
	2.0 - 2.8	24.0	7.6
	2.8 - 3.5	13.4	< 0.1
	3.5 - 4.5	7.25	4.1
	4.5 - 5.5	3.89	< 0.1
	5.5 - 6.5	3.36	3.1
	6.5 - 7.25	6.12	< 0.1
	7.25 - 8.6	5.86	< 0.1
	8.6 - 10.0	2.99	3.8
	10.0 - 11.0	5.03	< 0.1
	11.0 - 12.2	11.4	9.3
	12.2 - 13.7	2.78	< 0.1

The analytical figures of Table 1, when related back to the head samples, give the cassiterite and gold assays of the respective jig concentrates which were supplied by the client. These assays, together with the quartz, highly-susceptible, and other heavy mineral assays are outlined in Table 2.

Table 2.
Mineralogical Assays of Size Fractions

HOLE	INTERVAL	QUARTZ %	H/S %	ASSAY SnO ₂ %	Au ppm	OTHER H/M %
CDH2	14.1 - 15.1	86.41	3.65	0.29	0.41	9.65
	15.1 - 15.27	63.14	2.39	7.82	0.55	26.65
	15.27 - 16.27	82.63	1.63	4.60	0.54	11.14
	16.27 - 16.77	81.75	3.92	2.96	0.04	11.37
	16.77 - 16.87	54.81	3.46	9.95	<0.04	31.78
	16.87 - 17.87	36.80	14.26	15.69	9.54	33.25
	17.87 - 18.87	62.49	4.86	6.78	3.27	25.87
	18.87 - 19.04	30.20	9.40	12.54	1.45	47.86
	19.04 - 20.54	18.38	6.58	20.30	<0.08	54.74
	20.54 - 23.94	1.09	2.43	2.00	<0.1	94.48
CDH6	0 - 1.0	80.22	4.40	4.06	<0.02	11.32
	1.0 - 2.0	73.68	2.62	5.80	<0.02	17.90
	2.0 - 2.8	73.02	1.02	7.99	1.97	17.97
	2.8 - 3.5	72.47	3.18	4.18	<0.02	20.17
	3.5 - 4.5	59.26	2.26	3.58	1.58	34.90
	4.5 - 5.5	62.02	3.31	1.73	<0.03	32.94
	5.5 - 6.5	70.56	3.88	1.10	0.79	24.46
	6.5 - 7.25	87.86	1.51	0.83	<0.01	9.80
	7.25 - 8.6	43.87	2.92	4.00	<0.05	49.21
	8.6 - 10.0	51.06	3.43	1.74	1.73	43.77
	10.0 - 11.0	85.76	1.28	0.84	<0.01	12.12
	11.0 - 12.2	75.62	2.95	3.13	1.99	18.30
	12.2 - 13.7	35.86	3.28	2.17	<0.06	58.69

Both composite heavy mineral hole samples were sized with the size fractions being assayed by Central Mineralogical Services, Adelaide. A copy of the CMS report is enclosed in Appendix IV. Table 3 summarizes the assays of each size fraction.

Table 3.
Mineralogical Assay of Size Fractions

HOLE	SIZE RANGE MICRONS	DOMINANT	MAJOR	ASSAY* MINOR	ACCESSORY
CDH2	+1000	-	{ Topaz Pyrite Slag	-	Cassiterite
	+500	Topaz	-	-	{ Pyrite Slag Zircon Cassiterite
	+250	-	{ Topaz Pyrite	Cassiterite	{ Siderite Slag
	+150	-	{ Pyrite Cassiterite	{ Topaz Siderite	{ Ilmenite Tourmaline
	-150	-	{ Ilmenite Pyrite	{ Zircon Cassiterite	{ Siderite Tourmaline Garnet Hornblende Dumortierite

*Assay: Nomenclature as per CMS Report.

CDH6	+1000	Pyrite	-	Slag	Topaz Siderite
	+500	Siderite	-	Pyrite	Topaz Slag Cassiterite
	+250	-	Siderite Topaz	Pyrite	Pyroxenes Slag Ilmenite Garnet Rutile Cassiterite
	+150	-	Ilmenite Siderite	Topaz Pyrite Amphiboles	Zircon Garnet Pyroxenes Tourmaline Cassiterite
	-150	-	Ilmenite Zircon	-	Rutile Topaz Cassiterite

The figures in Tables 1,2, and 3 indicate that there are large variations in the mineral assemblages between the coarser and finer fractions of the jig concentrates.

4. METALLURGICAL INTERPRETATION OF ASSAYS

4:1 Variation of Mineral Assemblage with Size

As pointed out above, there are large variations in the mineral assemblages between the size groups.

Such variations include:

- (a) concentration of pyrite in the coarser sizes
- (b) concentration of cassiterite and beach sand minerals in the finer sizes.
- (c) concentration of jig ragging in the coarser sizes.

Whilst this list is by no means complete it does show that any attempt to separate out a cassiterite product must, if an efficient separation is required, recognize and accommodate the differences in grain sizes of the various gangue minerals with respect to cassiterite and of course to one another.

4:2 Fineness of the Cassiterite and Gold

Table 4 below outlines the size distribution of tin and gold.

Table 4.

Size Distributions - Tin and Gold

SIZE	SOLIDS		GOLD		TIN	
	CDH2	CDH6	CDH2	CDH6	CDH2	CDH6
+1000	6.1	11.2	-	3.6	0.6	1.5
+500	4.5	7.7	-	7.5	1.5	3.6
+250	20.7	23.4	41.5	1.6	18.7	20.2
+150	53.1	42.2	38.5	13.7	69.6	55.9
-150	15.6	15.5	20.0	73.6	9.6	18.8

The figures in this table clearly demonstrate the relative fineness of the gold and tin and in addition to the comments made above in 4:1, the figures suggest that concentration and upgrading techniques should be selected to take advantage of such fineness. Based on this suggestion spirals have been recommended as the gravity concentration device for the upgrading of wet plant concentrates generated from the ore. The client is advised to consider the use of spirals - perhaps in conjunction with jigs - in the primary concentration.

5. PRELIMINARY DRY MILL FLOWSHEET

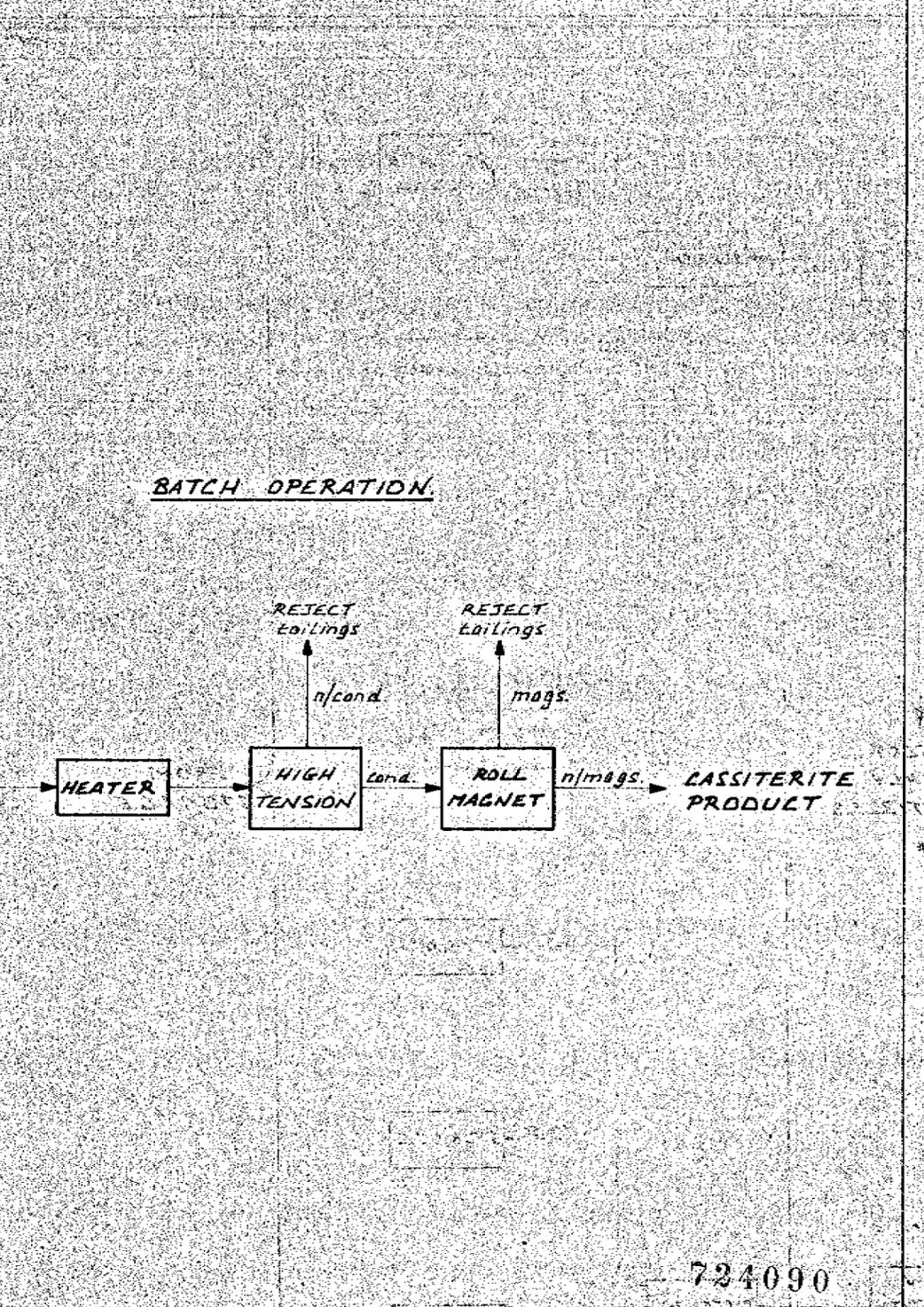
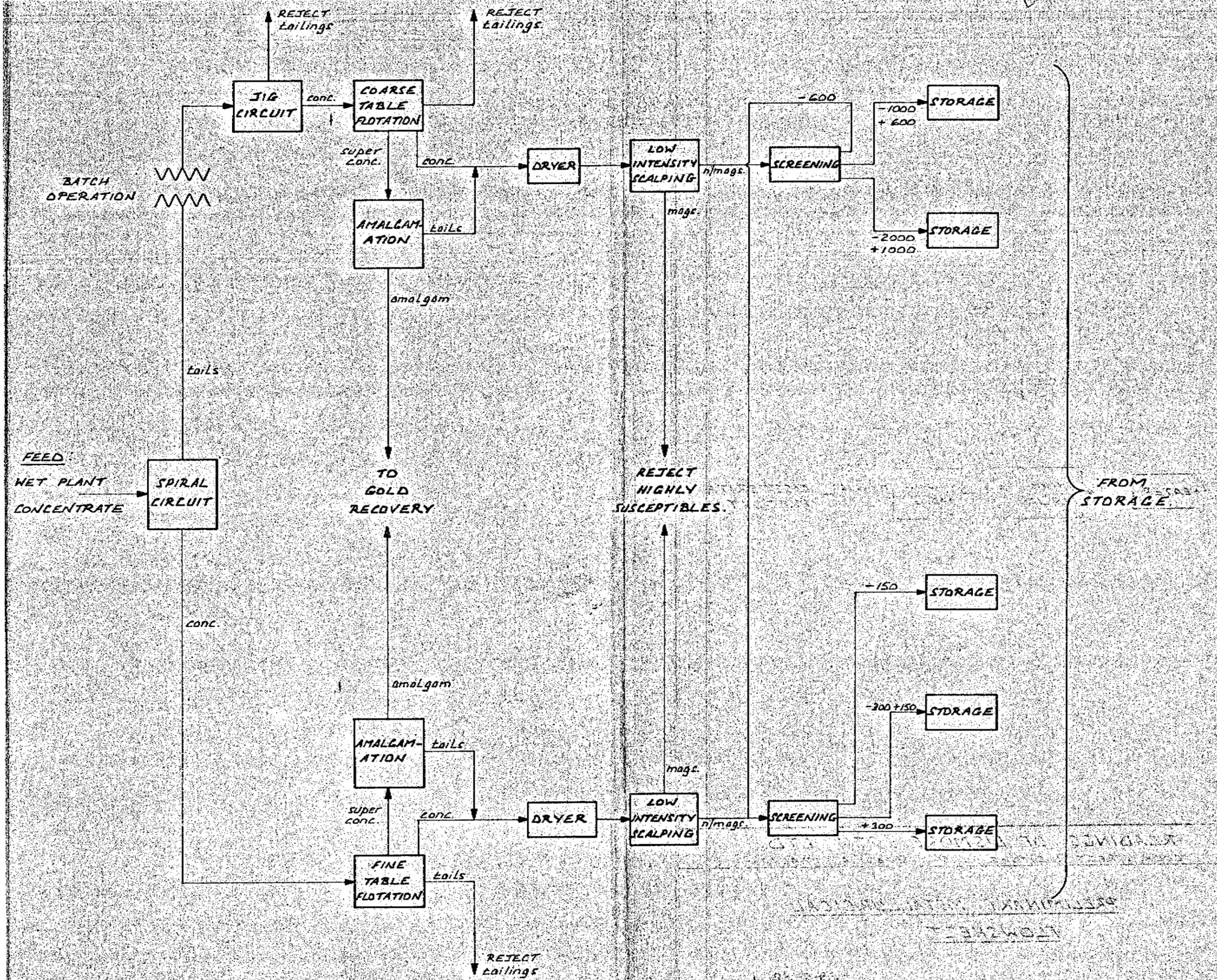
Figure 1 outlines a possible flowsheet for the upgrading of concentrates similar in composition to the jig concentrate samples supplied by the client. In the preparation of this flowsheet recognition has been given to:

- (a) the size range mineral analyses and distributions shown in Table 1,2,3 and 4,
- (b) the metallurgical interpretations expressed in Sections 4:1 and 4:2, and
- (c) the approach used by other alluvial tin producers i.e., separate treatment of particle size ranges.

In this flowsheet the wet mill concentrate is further upgraded by spirals and jigs, producing two concentrates and a reject tailing. The bulk of the cassiterite and

gold reports as spiral concentrate which is subsequently table floated to remove pyrite. Gold is caught by passage of the super concentrate from the table over amalgam plates. At this stage the concentrate (less pyrite, gold, and quartz) is dried, scalped for scrap iron, magnetite etc., and screened into three separate size fractions. The coarser jig concentrate is given similar treatment to the spiral concentrate.

As depicted in Figure 1, the five size groups are batched over a flowsheet consisting of a heater, high tension unit (removing zircon, topaz, quartz, ferromagnesian), and finally a roll magnet (ilmenite). The small amounts of each size range, together with the requirement to minimize capital cost-at least in the early life of the plant - preclude the continuous treatment of each of the size ranges.



724090

READINGS OF LISMORE PTY. LTD.
 COOK STREET, LISMORE, N.S.W. 2480, AUSTRALIA

PRELIMINARY METALLURGICAL FLOWSHEET

28-5-82 JW

APPENDIX I

SANTOS LTD. LETTER

SANTOS LTD

SANTOS HOUSE, 39 GRENFELL STREET, ADELAIDE, SOUTH AUSTRALIA 5000

Postal Address:
G.P.O. BOX 2319, ADELAIDE, SOUTH AUSTRALIA 5001

Telephone: (08) 218 5111 Telex: AA 82716

SANTOSED 187/82 HM 2.01
6 May 1982

Mr. N. P. Dawson
The Manager
Readings of Lismore Pty. Ltd.
P.O. Box 161
LISMORE
N.S.W. 2480

Dear Mr. Dawson,

RE: ANALYSIS OF BULK SAMPLE CONCENTRATES

I have forwarded under separate cover the following concentrate samples:

<u>Hole Number</u>	<u>Interval (metres)</u>
CDH2 (10 samples)	14.1 - 15.1
	15.1 - 15.27
	15.27 - 16.27
	16.27 - 16.77
	16.77 - 16.87
	16.87 - 17.87
	17.87 - 18.87
	18.87 - 19.04
	19.04 - 20.54
	20.54 - 23.94
CDH6 (13 samples)	0 - 1.0
	1.0 - 2.0
	2.0 - 2.8
	2.8 - 3.5
	3.5 - 4.5
	4.5 - 5.5
	5.5 - 6.5
	6.5 - 7.25
	7.25 - 8.6
	8.6 - 10.0
10.0 - 11.0	
11.0 - 12.2	
12.2 - 13.7	

The samples were derived by trommel and jig treatment of material obtained from large-diameter(30") bore holes drilled on our alluvial tin prospect. The samples are smaller in size than I was previously led to believe, and in some cases (mostly in CDH2) there is more than one sample packet for each sample interval. Please combine the individual packets in these cases to make up samples corresponding to the above intervals.

Offices at: **WHYALLA** 7a Forsyth Street,
Whyalla,
South Australia 5600
Postal Address: P.O. Box 344, Whyalla, S.A. 5600

BRISBANE City Mutual Building, 13th Floor,
307 Queen Street, Brisbane,
Queensland 4000
Postal Address: P.O. Box 1026, Brisbane, Qld. 4001

As discussed on the telephone, please carry out the following work on each sample:

- (a) separate any gold using an amalgam plate or heavy liquid separation.
- (b) split into the five size fractions that you consider most appropriate, say + 500 μ m, -500 +250 μ m, -250 + 150 μ m, -150 + 75 μ m and -75 μ m.
- (c) weigh each size fraction.
- (d) carry out microscopic analysis of each fraction to determine the minerals present in each size fraction.

I would appreciate it if you could contact me on (08) 2185111 when you have received the samples so that we can finalize size ranges and analysis of the samples.

Thank you for your advice and assistance.

Yours faithfully,



S. D. Lee
Senior Geologist/Minerals

SDL:gj

APPENDIX II

ASSAY CERTIFICATES

APPENDIX III

COMPOSITING OF TWO HEAVY MINERAL CONCENTRATES

Introduction: In the body of the report reference has been made to the compositing of two heavy mineral concentrates.

The purposes of this Appendix are to record the weights of H/M from each interval used to make each composite and to state which intervals were omitted due to insufficiency of sample.

Discussion: In the splitting of each interval heavy mineral top priority was given to providing 20 - 30 grams for chemical assay in order to satisfy sampling requirements. In the event where material was left over, a further small split was taken for reference to the interval provided the residual exceeded 30 grams: otherwise the total residual was used to make up the respective composite.

Details of the weights used are outlined in Table 3:1

could be suitable for nature observation through the construction of designed nature trails to enable viewing of wildflowers, other flora and the 'abundant' fauna. The area is said to be suited for management as a nature reserve which would include the prevention of vehicular access and the reduction of fire frequency.

The Heritage Commission's intent clearly represents a potential land use conflict with both alluvial mining and grazing. It would be advisable for -SANTOS to liaise with both the Heritage Commission and the Tasmanian Mines Department to discuss the implications of the registration of this area on the proposed dredging activities.

History

Gladstone, some 20 km upstream from Boobyalla Bay, is the closest settlement to the proposed mining area and has served as a service centre for tin and gold mining undertakings for over a century. Tin and gold has been mined in the area since the mid-1800's with a recorded quantity of 1,500 tons of concentrates shipped from the port of Boobyalla in 1880.

Tin was originally won by ground sluicing and was then aided by water under pressure, supplied from small dams built in the nearby creeks.

Later, pumps driven by a water wheel raised water to the Empress Dam, some 300 feet above the Ringarooma River. Water was distributed by race to the various sites. This supply was operated by the Empress Company until the pumping plant and wheel were destroyed by floods.

The Mount Cameron Water Race was constructed and provided operators below the level of the race with water under pressure for sluicing. The race is still in operation today.

Tin-bearing areas on higher ground have been worked by the utilisation of mechanical means of pumping water. Steam power was tried at the turn of the century but was found to be uneconomic. The introduction of electric

power to the district enabled groups such as the Star Hill Syndicate to resume operations after the abandonment of steam. In later years, diesel power supplemented electricity as a power source for pumping and has enabled small mining operations to establish themselves a considerable distance from the Mount Cameron Water Race.

Over the past century, mining has been undertaken by a variety of companies and syndicates but the area has also attracted small operators working either solely or in groups of two or three. There has been little, if any, control over operations until the last decade or so, and consequently the area is dotted with gravel pits, disused tailing dams and abandoned open cut mines. Water in the Ringarooma River near Gladstone has a large amount of sand, silt and clay in suspension as a result of mining activities upstream.

Dredging on a large scale has been undertaken only once, just prior to and during the war years. The dredged area was known as the Dorset mine and is the current site of the abandoned Dorset dredge.

In recent years, large-scale mining has been largely confined to the Kibuka open cut mine at Pioneer, 27 km from Gladstone. This mine was originally operated by the BMI Group but more recently by AMDEX. AMDEX is currently scaling down its operation (processing approximately 150 tonnes of material per day) and will eventually close down completely. The company has been employing approximately 30 staff.

Proposed Development

If the current SANTOS exploration programme proves successful, dredging operations are likely to commence in the 1982/83 financial year. The envisaged scale of the proposed operations will entail the processing of some 1½ million cubic metres of sand and gravel annually. Dredging will be undertaken by either a single or possibly two dredges. The dredges may be either diesel powered or electric and will be floating units operating in shallow constructed lagoons. Ideally, each dredge would work in tandem with a following processing unit which would ultimately recover ore concen-

trate consisting of about 70% tin. It is envisaged that somewhere between 20 and 30 personnel would be required to staff the total operation. Approximately half of this number could be drawn from the Gladstone region.

The dredging operation would require the construction of at least two all-weather roads into the mining area. This will probably entail the construction of several small bridges, culverts and elevated levees. The Tasmanian Department of Environment has indicated that the Forestry Commission has considerable skills in the construction of such roads.

Regional Economy

The north-eastern corner of Tasmania is sparsely populated and, other than the coastal villages on the east coast, is considered to be "off the beaten tourist track". The economy of the region around Gladstone is dependent upon primary production in the form of beef-cattle, dairying, some sheep farming, fruit and timber. Timber is felled south of Gladstone and taken by road to Herrick, which is the closest rail terminus to Gladstone (approximately 24 km). Here the timber is loaded onto trains and then taken to Bell Bay for chipping and shipment overseas. A timber mill at Branxholm (employing 10 people) provides timber for local use.

[Rail shipment, probably in containers through a forwarding agency, may be a viable method of transporting tin ore.]

Discussions with the Council Clerk of the Ringarooma Shire Council and with the Department of Mines representative in Gladstone indicates that unemployment in the region is high but not extraordinarily so by State standards. Of the unemployed, a certain number are believed to represent a sector unlikely to seek or obtain employment, whilst a considerable number are recent school-leavers awaiting their first employment opportunities. At the time of these discussions, AMDEX had not announced their intended scaling down and imminent closure. This closure may result in an increase of unemployed within the region by up to 30 (see above).

The SANTOS activities are being looked upon with interest and optimism by the local community. If the proposed mining operation goes ahead, both direct and indirect economic benefits to both Gladstone and the region are envisaged. Gladstone's small population (less than 100) has a traditional association with the tin mining industry. Many of the farmers in the district have small mining interests of their own and would prefer to operate their farm properties on a part-time basis whilst seeking full employment in any mining operation.

Potential Impact of Development

Broadly speaking, the proposed mining operations will have a positive impact on the environment in social and economic terms and some negative impact (at least in the short term) on the natural environment. Some degree of land use conflict will be evident between mining and grazing. The Australian Heritage Commission's proposals for the Great Northern Plain are incompatible with both mining and grazing.

Mining will provide much-needed employment to at least some of the residents of the region whilst indirect benefits will result from road construction, transportation and the provision of goods and services for the operation. Extra accommodation, particularly for employees with families, may need to be provided to supplement existing levels of accommodation.

The impact on the physical environment will be determined by the degree of planning and environmental concern that will guide the project. Careful thought will have to be given to the design and siting of settling dams. Successful levels of rehabilitation may be achieved by the conservation of seed stock and careful profiling and contouring after the completion of dredging operations. Studies dealing with flora, fauna and hydrology should be undertaken at an early stage to determine potential impact and to enable preventative and ameliorative action to be planned.

State Government Requirements

The Tasmanian Government, via the Department of Mines and Department of the Environment, have certain requirements that must be observed by companies wishing to commence mining operations in the State.

The Department of Mines, in issuing its licence to SANTOS, requires the company to proceed to development within a period of 18 months or the relinquishment of title to the area. A certain expenditure per unit area plus the submission of quarterly reports are further requirements.

The Department of Environment will also require a licence (to operate a scheduled premises) and has set procedures for two stages of environmental assessment. The first stage of assessment is a Statement of Environmental Factors (see Appendix I). This is required by the Department in the immediate future and should be submitted in the form of a brief report which provides answers to a questionnaire containing some 30 questions. Much of the information is already available either in this report or within SANTOS. Some of the questions require certain decisions to be made in terms of the logistics of operation and require further research. To that end, faunal, vegetation and hydrological surveys should be commissioned at the earliest opportunity. This Department also sets standards for water quality under the Environmental Protection (Water Pollution) Regulations, 1974. A figure of 30 ppm (non-filterable) has been set as a standard for water entering inland rivers from settling dams, for example.

If dredging operations are to proceed, an Environmental Impact Statement will be necessary. The Statement would be based on guidelines agreed between SANTOS and the Department of the Environment. If the tin ore is to be exported, Federal requirements may also have to be met (see Environmental Protection (Impact of Proposals) Act, 1974-75 (Cth.)).

Recommendations

1. A title search should be carried out as a matter of urgency to determine the delineation of freehold, leasehold and Crown lands in the proposed development area. Legal advice should also be sought as to SANTOS' legal standing in any land-use conflict arising out of the operation.
2. SANTOS should liaise with the Australian Heritage Commission and the Tasmanian Departments of Mines and Environment to clarify the company's position if any portion of the proposed development is registered on the National Register.
3. SANTOS should write to the Department of the Environment briefly outlining its intentions, progress to date and indicating that a Statement of Environmental Factors is being prepared. [Liaison between the Departments of Mines and Environment appears to be imperfect.]
4. SANTOS should prepare a Statement of Environmental Factors of a good quality. The company is little known in Tasmania and consequently a well presented and researched document will
 - (a) be seen as an act of good faith by the company;
 - (b) gain kudos and respect for SANTOS;
 - (c) pave the way for co-operation and a good relationship between the Department and its officers;
 - (d) provide an early indication of issues to be canvassed in any subsequent Environmental Impact Statement.
5. SANTOS should commission zoological, botanical, soils and hydrological studies at the earliest opportunity.
6. The decision-making relating to the logistics of establishing a dredging operation (operations planning) should be commenced at an early stage.
7. The preparation of an E.I.S. should commence at the earliest indication that the project is likely to go ahead.

8. Government departments in Tasmania operate on a docket system. Consequently, dockets labelled both Helleyer and SANTOS have caused some confusion. Some degree of standardisation is advisable.
9. At a later stage, SANTOS should contact the Tasmanian Forestry Department re: road construction.
10. The Department of Industrial Development could provide some assistance to SANTOS in terms of liaison with other departments and other matters.
11. It would be advisable for SANTOS' legal department to check the appropriate legislation and regulations to ensure trouble-free progress of this project. Of importance are:
 - Mining Act, 1929 (20 Geo. V. No. 71) and Amendments 1930 to 1979;
 - North East Land Development Act, 1972;
 - Environment Protection (Water Pollution) Regs., 1974;
 - Environment Protection Act, 1973;
 - Australian Heritage Commission Act, 1975.

APPENDIX 1

STATEMENT OF ENVIRONMENTAL FACTORS

APPENDIX I

STATEMENT OF ENVIRONMENTAL FACTORS

Environmental Impact - Development Projects

Instructions for completion of form:

- (a) All questions should be answered.
- (b) Where a question does not apply to the project, the words "NOT APPLICABLE" should be inserted.
- (c) Where information is unavailable or incomplete this should be indicated in the answer.
- (d) Other relevant documents such as maps, plans, diagrams, photographs, etc., should be attached.
- (e) When completed the form should be forwarded to:
- (f) The completed form will be forwarded to the Director of Environmental Control by the decision-making authority.

PART A

DESCRIPTION OF PROJECT AND EXISTING ENVIRONMENT

1. Name and Address of Applicant.
2. Location and Boundaries of Project.

(Sufficient information must be given to clearly establish precise location of proposed development.)

3. Description of Project.
4. Communications.

(Indicate any additional road, rail, harbour, airfield, amphibian or telecommunication facilities likely to be required as a result of the project when completed.)

5. Power Transmission Systems.

(Indicate the type and location of transmission lines, switch stations, transformers, etc., associated with the project when completed.)

6. Water Supplies.

(Indicate the quantities and sources of water supplies required for the project when completed. The location of supply pipes, reservoirs, treatment facilities, etc., should be indicated.)

7. Waste Products.

(These should include waste, gases, dust and fume emissions, liquid effluents, sewage, refuse, scrap material, waste heat or radiation discharge by the project when completed.)

8. Date Scheduled for Completion of Project.

(Indicate dates for separate stages where applicable.)

9. Existing Land Use Classification (Crown, agricultural, industrial, residential, etc.)

10. Proposed Land Use Classification.

(Indicate any zoning changes involved.)

11. Description of Existing Site.

(This should include a general description of existing buildings, major topographical features and surface waters, and a brief summary of the type and extent of vegetation cover.)

12. Existing Wildlife Habitats.

(List species of animals including birds or fish known to exist on the site.)

13. Description of Region Surrounding the Site.

(Significant differences between the development site and the surrounding region should be noted.)

14. Buildings, Monuments or Features of Historic Interest on Existing Site.

15. Features of Scientific Interest on Existing Site.

16. Features of Scenic or Recreational Value on Existing Site.

17. Any Other Relevant Features.

PART B

EFFECTS OF PROJECT ON ENVIRONMENT

18. Disturbance to Present Occupiers.

(i) Temporary.

(ii) Permanent.

19. Physical Changes to Topography.

(Give brief details of any excavation, flooding, landfills, re-alignment, etc., involved.)

20. Changes to Existing Vegetation.

(This should include a summary of the extent of tree and shrub clearing involved, destruction of natural ground cover and the nature of any re-forestation, crop planting or animal stocking.)

21. Effects on Wildlife.

(List any changes, detrimental or beneficial, likely to affect wildlife habitat in the area.)

22. Effects on Water Quality.

(Briefly outline any physical or chemical changes in the quality of surface or underground waters likely to occur as a result of the project.)

23. Changes to Historic Features.

(List any destruction or major alteration to buildings, monuments or features of historic interest.)

24. Effects on Scientific Features.

(List any destruction or major alteration to features of scientific interest.)

25. Effects on Scenic or Recreational Aspects.

(Describe briefly any adverse effects or improvements to scenic features or recreational facilities.)

26. Visual Effect of Project.

(Drawings or photographs should be attached if possible. Details of such factors as overall building dimensions, colours and reflective surfaces should be included.)

27. Estimated Noise Levels at Boundary of Project when Completed.

28. Vibration Effects at Boundary Resulting from Blasting or Machinery Operation on Project Site.

29. Nature and Volume of Traffic Generated by Project.

(This should include an estimate of the numbers and types of vehicles likely when the project is completed.)

30. Improved Access to Surrounding Region.

(Indicate the extent of improvement in pedestrian or motorised transport access to surrounding areas as a result of the project.)

PART C

ENVIRONMENT PROTECTION MEASURES

Give below a brief summary of measures, proposed to be incorporated in the project, to protect the environment against any adverse effects listed in Part B. This should include details of emission controls, sewage treatment, refuse disposal, traffic distribution, landscaping, rehabilitation and flora and fauna protection where appropriate. Plans and diagrams should be attached if applicable.

Signed

Date

Position

Table 3:1
Compositing Information

HOLE	INTERVAL	WEIGHT USED IN COMPOSITE-GRAMS	REFERENCE SAMPLE
CDH2	14.1 - 15.1	3.2	NO
	15.1 - 15.27	86.4	YES
	15.27 - 16.27	4.5	NO
	16.27 - 16.77	7.4	NO
	16.77 - 16.87	17.3	YES
	16.87 - 17.87	72.3	YES
	17.87 - 18.87	28.0	YES
	18.87 - 19.04	64.3	YES
	19.04 - 20.54	65.8	YES
	20.54 - 23.94	70.8	YES
CDH6	0 - 1.0	-	NO
	1.0 - 2.0	-	NO
	2.0 - 2.8	6.8	NO
	2.8 - 3.5	7.2	NO
	3.5 - 4.5	12.4	YES
	4.5 - 5.5	10.3	YES
	5.5 - 6.5	7.8	NO
	6.5 - 7.25	-	NO
	7.25 - 8.6	78.5	NO
	8.6 - 10.0	12.6	NO
	10.0 - 11.0	-	NO
	11.0 - 12.2	-	NO
	12.2 - 13.7	43.8	YES

APPENDIX IV

CENTRAL MINERALOGICAL SERVICES REPORT

724112

Central Mineralogical Services



39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

Mr. D.G. James
Research Metallurgist
Readings of Lismore Pty. Ltd.
P.O. Box 161
LISMORE / N.S.W. 2480

27th May, 1982

REPORT CMS 82/5/37

YOUR REFERENCE: Order No. 657985
DATE RECEIVED: 26th May, 1982
SAMPLE NOS.: 10 Samples
SUBMITTED BY: D.G. James
WORK REQUESTED: Mineralogy

H.W. Fander

H.W. Fander, M. Sc.

REPORT CMS 82/5/37

Ten sized heavy mineral products (in two sets, Nos. 2 and 6) were received for mineralogical examination. They were examined under the stereobinocular microscope and as grain-mounts, and are described on a semi-quantitative basis in the attached table.

Comments

1. No gold was detected, because even the highest assay (sample 2, +250 μ) represents one gold grain in about 300,000 grains of heavies (using an average S.G. of 4). However, it is expected that the gold would be free.
2. All the cassiterite is free and clean, and should be amenable to normal concentration methods. Obviously, there must be appreciable cassiterite in the - 63 μ fractions of both samples.
3. Slag (ragging from the jigs) is abundant in coarser fractions.
4. Siderite and pyrite are plentiful; both minerals have formed within the deposit; the pyrite is prone to oxidation, and if concentrates are stockpiled before being processed, iron-staining of all minerals will result, which could be detrimental to further processing.

H.W. Fander, M. Sc.

724114

Sample No.	Cassiterite	Gold	Other Minerals	Comments
2/+1000 μ	Free grains 1.5 mm - 2.5 mm, pale to brown; fragments of larger crystals.	None detected.	Major pyrite (nodules). Major slag (ragging). Topaz.	Cassiterite should be available. All components free.
2/+ 500 μ	Free grains, fragments of crystals, pale amber to dark red-brown.	None detected.	Dominant topaz, accessory pyrite, slag, zircon. Trace garnet.	Good clean cassiterite. All minerals are free.
2/+ 250 μ	Well-defined free grains, red to dark brown; many are rounded.	None detected. (12 g/T = 1 grain in > 300,000 grains)	Major topaz, pyrite. Accessory siderite, slag; trace others.	Others include chromite, pyroxene, tourmaline, zircon, garnet.
2/+ 150 μ	Free grains, crystals and angular fragments.	None detected.	Major pyrite; minor topaz, siderite, accessory ilmenite, tourmaline.	Others include slag, welding globules, garnet, zircon.
2/+ 63 μ	Free grains, angular and rounded.	None detected.	Major ilmenite, pyrite; minor zircon. Accessory "others".	Others are siderite, tourmaline, garnet, hornblende, dumortierite.
6/+1000 μ	Free grains 1-2 mm, abraded fragments of larger crystals.	None detected.	Dominant nodular pyrite, minor slag.	Accessory topaz, siderite, trace garnet; all minerals free.
6/+ 500 μ	Free grains, abraded and rounded, cream-amber-clear brown.	None detected.	Dominant siderite, minor pyrite; accessory topaz, slag.	Siderite and pyrite both formed as small concretions within the alluvial deposit.
6/+ 250 μ	Free grains, abraded to rounded (contrast with sample 2).	None detected.	Major siderite, topaz; minor pyrite. Others.	Others include pyroxenes, slag, ilmenite, garnet, rutile.
6/+ 150 μ	Free grains, abraded and rounded, smoky to red brown.	None detected.	Major ilmenite, siderite, minor topaz, pyrite, amphiboles.	Others include zircon, garnet, pyroxenes, tourmaline.
6/+ 63 μ	Free grains, subangular to rounded.	None detected.	Major ilmenite, zircon, accessory rutile, topaz.	Others include pyroxenes, amphiboles, garnet, green spinel, pyrite.

Dominant = > 60 %; Major = 30-60 %; minor = 10-30 %; accessory = 1-10 %; trace = < 1 %.

APPENDIX III

ENVIRONMENTAL INVESTIGATIONS - STAGE I

& REHABILITATION REQUIREMENTS



SOCIAL AND ECOLOGICAL
ASSESSMENT PTY LTD

Cecil Mansions
118 Rundle Street
KENT TOWN SA 5067

Telephone: (08) 428836
(08) 428837
(08) 428838

20th April, 1982

Our ref: SEA:OM:550

Mr. A. Sann,
Government Technical Relations
and Environment Officer,
SANTOS Ltd.,
SANTOS House,
39 Grenfell Street,
ADELAIDE, S.A. 5000

Dear Alan,

The attached document represents the first stage of environmental assessment of the potential impacts of SANTOS' proposed alluvial tin mining project in the Ringarooma River/Gladstone area of north-east Tasmania.

The report covers a general geographical airphoto interpretation of the area, examines the historical and current land use in the region and provides a preliminary assessment of the economic conditions in the region. An indication of the likely social and economic effects, based on currently available information is also given.

Work that is yet to be undertaken includes:

- detailed zoological, botanical, soils and hydrological studies in areas selected for early development;
- the preparation of a Statement of Environmental Factors; and
- the preparation of an Environmental Impact Statement when the decision to proceed with the project has been made.

Please contact me if any clarification or further information is required.

Kind regards.

Yours sincerely,
SOCIAL AND ECOLOGICAL ASSESSMENT PTY. LTD.

Oleg Morozov
Associate Director

Encl.

Directors
David Cole LL.B
Nadia McLaren B.Sc (Hons Zool) M.Env Sr
Gary Prosser B.A (Soc) M.Env Sr
Associates
Michael Hodder B.Ec (Hons) M.Env Sr
Oleg Morozov B.A (Soc)
David Wiltshire B.Sc (Hons Ecol)

RINGAROOMA RIVER (TASMANIA) ALLUVIAL TIN PROJECT

ENVIRONMENTAL INVESTIGATIONS - STAGE 1

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SANTOS LIMITED: RINGAROOMA RIVER (TASMANIA) ALLUVIAL TIN PROJECT

ENVIRONMENTAL INVESTIGATIONS - STAGE 1

Background

SANTOS Ltd., operating in Tasmania under the name of Helleyer Mining Exploration Pty. Ltd., has successfully tendered for both exploration and mining licences for a tin prospect in the Gladstone/Ringarooma River area of north-east Tasmania (Fig. 1).

If investigations prove successful, the company intends to establish an alluvial mining development to dredge tin (and gold) from an ancient channel deposit outlined by SANTOS exploratory drilling.

Since early in 1981, the company has been using churn/percussion drills to drill and recover samples from depths averaging 15 to 25 metres. A bulk sample drill has also recently been used and has just completed a drilling programme.

Some offshore drilling has also taken place (during the 1960's), undertaken by Blaxland Seadredge Pty. Ltd. of Queensland. Offshore mining remains a future option.

Regional Topography and Climatology

The Ringarooma River, in the vicinity of the small township of Gladstone, is the dominant feature of a broad valley which runs in a north-west/south-easterly direction between Mount Cameron (551 m) in the south and the Ringarooma Tier in the north. The river at this point is in its 'mature' or meandering tract, flowing in a north-westerly direction and following a tortuous path until it flows into Ringarooma Bay at Boobyalla Inlet - a shallow, tidal body of water.

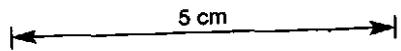
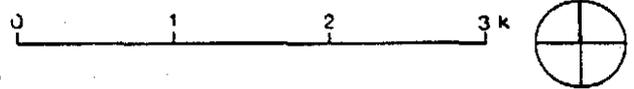
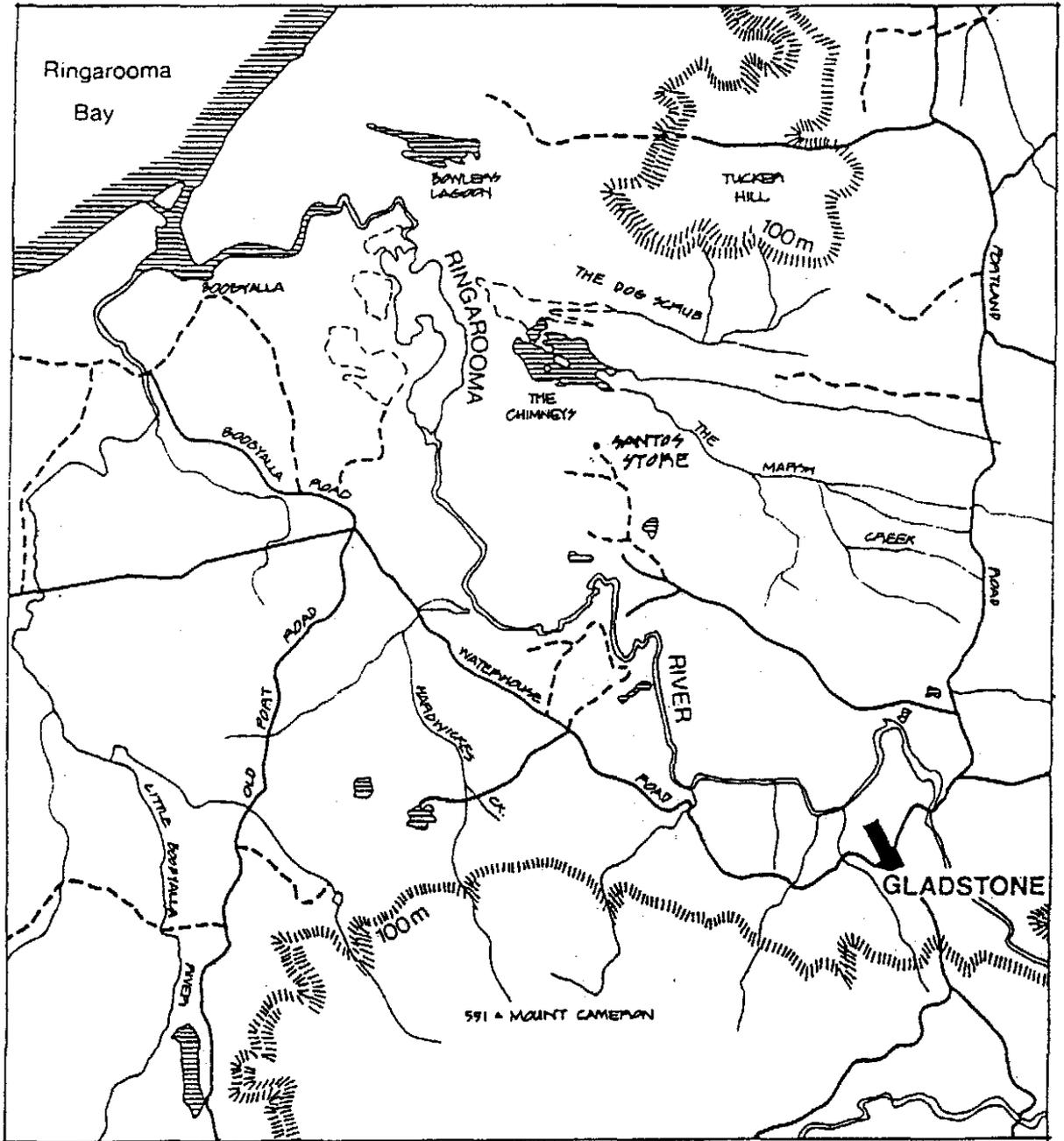
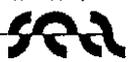


Fig. 1

**Santos Alluvial
Tin Project**
Ringarooma River/
Gladstone District
NORTH EAST TASMANIA



The valley on either side of the Ringarooma River is generally of low relief, forming a broad flood-plain and characterised by marshes, lagoons and swamps. Much of this area is inundated in the wet winter months and becomes impassable except by boat.

In climatic terms, the area could be described as being in a temperate zone. The hottest month is February with a mean temperature variation of 14°C - 23°C whilst the coldest month is July (3°C - 15°C).

Rainfall is seldom less than 40 mm in any month, reaching a peak in the winter months (June, July and August) with falls normally greater than 80 mm for the month. Prevailing winds throughout the year are westerlies.

The Proposed Development Site

SANTOS has concentrated its exploratory drilling programme largely on the eastern banks of the Ringarooma River in an area generally known as the Great Northern Plain.

The area showing the most encouraging results is several hundred metres wide and some 3½ kilometres long - stretching from Bowlers Lagoon in the north-west of the Great Northern Plain to MacGregor Lagoon and the old Dorset mine in the south-east (Fig.2).

This potential development zone is being evaluated as to its suitability for a dredging operation. In its northern reaches this area is characterised by high sand dunes and ridges rising some 15 to 20 metres above the river plain. Further south the area is mainly marsh and wet areas. Some of these are named and include Tent Marsh, Bluey's Lagoon, Foster's Marshes, Foulhouse Marsh and MacGregor Lagoon.

The southern boundary of this area is defined by gravel pits and the now inactive Dorset mine and its abandoned dredge.

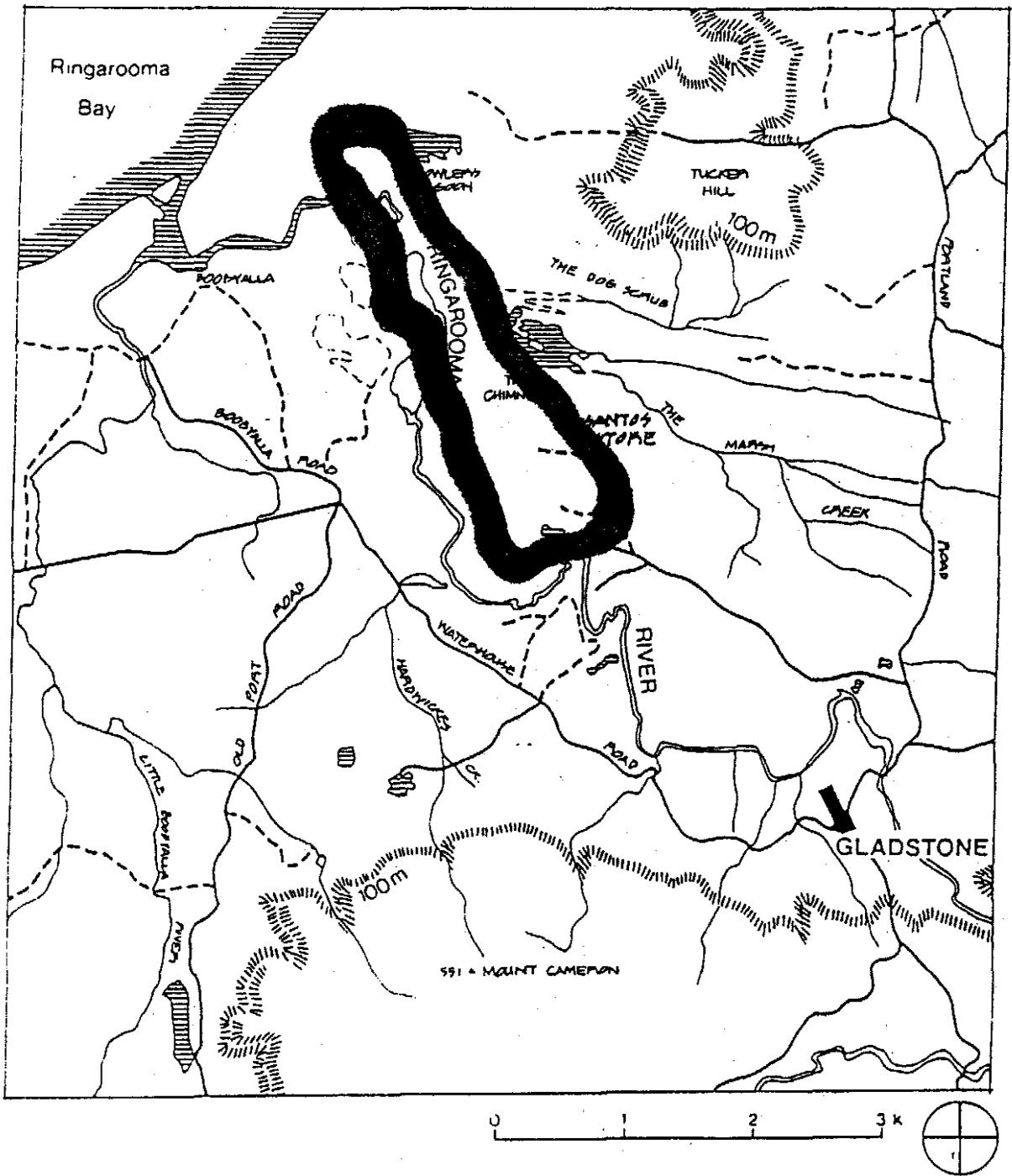


Fig. 2

 Potential Dredging Area

5 cm

Land Use and Status

Much of this area is Crown land and incorporates exploration and mining leases E.L. 19/77 and C.M.L. 42M/76. Areas to the north and east are dominated by two large grazing properties - "Red Hills" and "Rushy Lagoon". Cattle from these estates graze on the rich feed available on the flood-plain.

A coastal reserve extends inland from the low water mark along the beaches on Ringarooma Bay. This reserve extends over a kilometre inland around Boobyalla Inlet into which both the Ringarooma River and the Boobyalla River flow. The Boobyalla River has a river reserve extending for approximately 50 m from both banks.

An area of approximately 10 sq km surrounding Boobyalla Inlet was proclaimed as the Town of Boobyalla last century but, other than serving as a port for the export of tin ore, this area was never settled.

The delineation of freehold, leasehold and crown lands in this area and the legal status of mining operators is unclear. It is recommended that a title search be carried out in Hobart to determine the exact nature of land ownership, access and permissible land uses in this area.

Geology

The Ringarooma River north of Gladstone flows through an area of deep leached sands probably deposited in Tertiary times through deposition by the river and its tributaries and also by several marine inundations of the lower-lying areas. Over the ages the river has probably changed its course many times and so the tin ore-bearing gravels are spread in varying concentrations over a large area and at various depths below the ground surface.

The tin occurs as tin or stannous oxide (SnO_2) in tertiary sediments, and in recent gravels and wash, as well as impregnating mica trap rocks and quartz lodes. Some gold is also found in the quartzose matrices and alluvial gravels.



Vegetation

Vegetation in the area comprises a broad variety of species from wetland grasses and moss on the flood-plain to inland heath associations on the slightly higher ground.

A variety of *Eucalyptus*, *Acacia*, *Banksia*, *Hakea* and *Leptospermum* are also present.

The wet areas attract a variety of avifauna and are consequently popular with shooters during the hunting season.

A field survey of the vegetation in the area should be undertaken in the near future to enable a complete assessment of species present, their significance, and to determine whether any are at risk.

Heritage Value

The south-east corner of the proposed mining zone forms part of an area that has recently (30.3.82) been advertised by the Australian Heritage Commission, giving notice of its intention to "enter approximately 3,400 ha of the Great Northern Plain in the Register of the National Estate" (Fig. 3).

Of interest to the Commission is what is described as the last example of the inland heath plains of north-east Tasmania which contain the major part of the distribution of one unreserved heath community as well as areas of *Eucalyptus pauciflora* woodland. The area is known to be the habitat of Forester kangaroo. Parts of the heath have been burnt so frequently that they have devolved into *Lomandra longifolia* tussock herbland, but given time would probably return to a healthy state.

The viability of the heath in the long term is believed to be dependent on including surrounding areas of *Eucalyptus* open forest and woodland in the reserve. The Commission believes that the area has scenic value, that it



APPENDIX 2

AREAS COVERED BY SANTOS LEASES

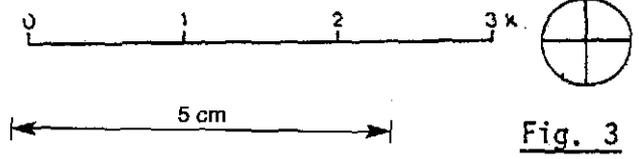
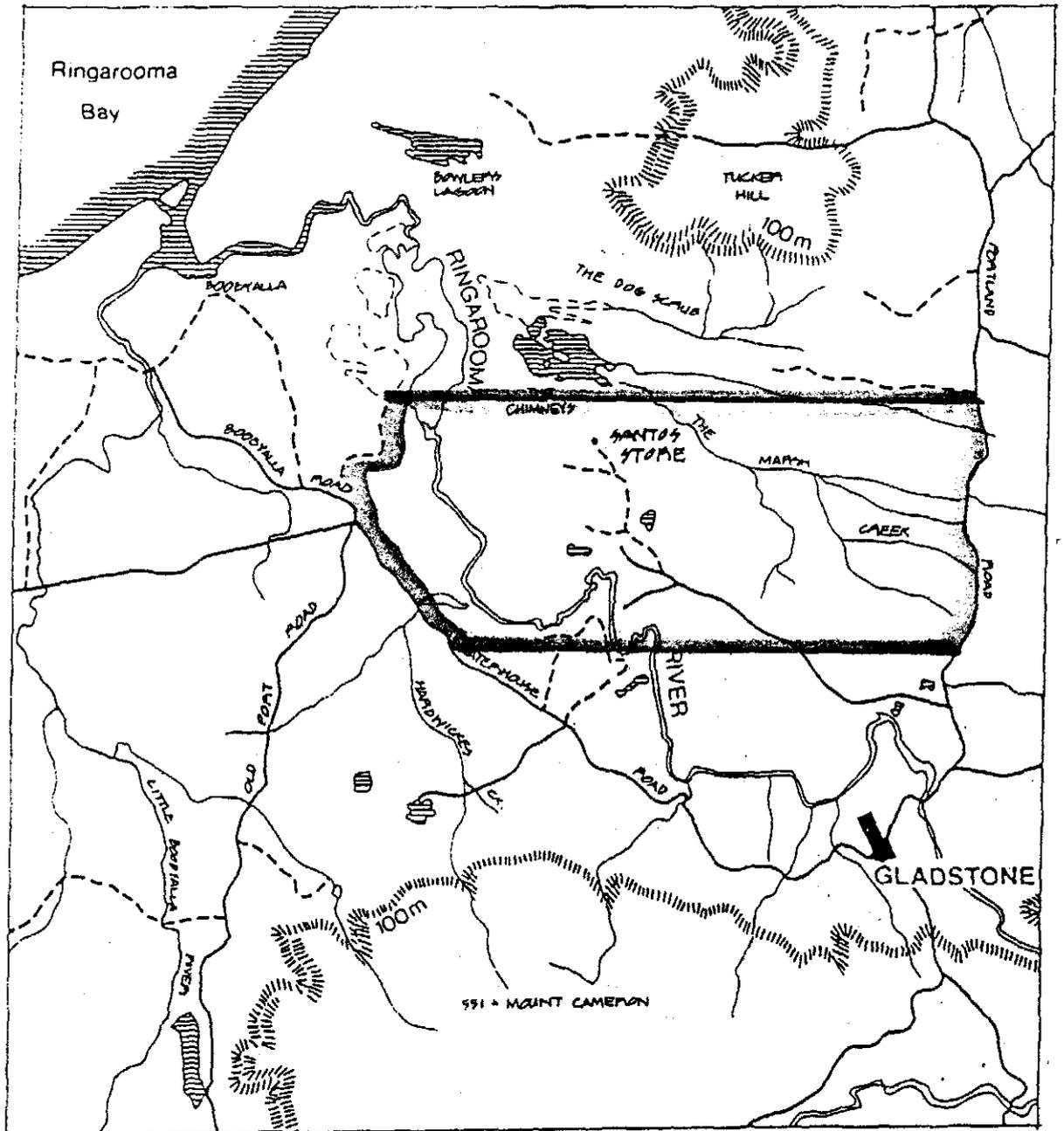
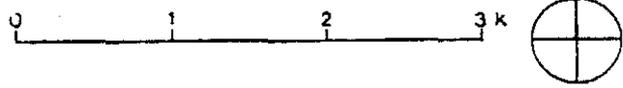
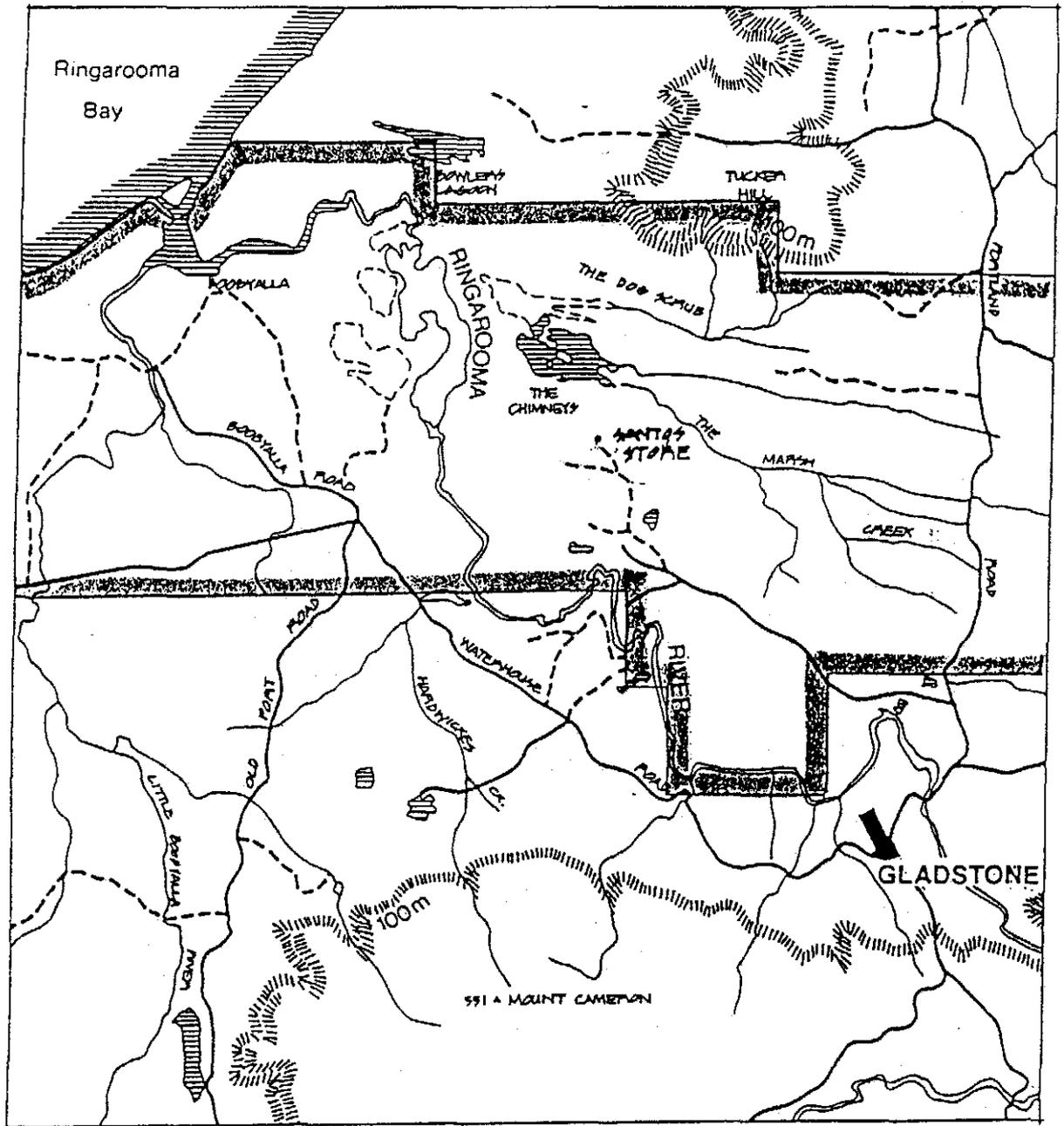


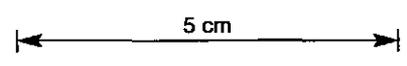
Fig. 3

 Area covered by the Australian Heritage Commission's Notice of Intention to Enter Places in the Register of the National Estate





 Areas covered by SANTOS leases E.L. 19/77 and C.M.L. 42M/76



Santos Alluvial Tin Project
 Ringarooma River/
 Gladstone District
 NORTH EAST TASMANIA



TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

SANTOS AAB2716
WAPET AA92008

724128

SL

JUNE 9, 1982

SANTOS - ADEL.
ATTN: S. D. LEE

9 JUN 82

RECEIVED GREAT NORTHERN PLAIN MATERIAL TUESDAY. COMMENTS AS FOLLOWS:

AREA DEVELOPMENT INCLUDING RESTORATION

1. ESTABLISH PHYSICAL PARAMETERS OF SURFACE AND SUBSURFACE WATER REGIME, SOIL PERMEABILITY, CONTOUR, SOIL ANALYSIS, CLIMATIC CONDITIONS.
HEATH PERSISTS BECAUSE OF PERCHED WATER TABLE, LACK OF NUTRIENT, WATER LOGGING.
2. SLASH VEGETATION TO GROUND LEVEL OR USE CUTTER ROLLER TO TRASH HEATH.
3. STRIP AND STOCKPILE 50CM TOPSOIL INCLUDING VEGETATION AS TREATED.
4. STRIP AND STOCKPILE OVERBURDEN TO ORE BODY LEVEL.
5. DREDGE ORE BODY DEVELOPING DREDGE SPOIL AREA AS WORKED.
6. CAP DREDGE SPOIL WITH OVERBURDEN TO ORIGINAL CONTOUR INCLUDING WATER CONTROL.
7. COMPACT OVERBURDEN TO EQUIVALENT OF ORIGINAL SUBSURFACE HARDNESS.
8. CAP OVERBURDEN WITH TOPSOIL AND VEGETATION. DO NOT COMPACT.
9. IF OPERATION IS CARRIED OUT ON A STRIP BASIS TOPSOIL AND OVERBURDEN CAN BE DIRECTLY TRANSPOSED TO SPOIL AREAS AFTER INITIAL CUT. THIS WOULD HAVE TO WORK OUT TO AGRICULTURAL AREAS TO ALLOW FINAL VOID TO BE AGRICULTURALLY RESTORED OUTSIDE HERITAGE AREA.

THIS TECHNIQUE WILL:

- A) RESTORE HEATH IN ORIGINAL MATERIAL
- B) REDUCE WEED INVASION
- C) REDUCE ONGOING IMPACT OF CLEARING AND OPERATION

IT MAY BE USED FOR ENTIRE PROJECT WHERE NATURAL REVEGETATION IS REQUIRED. PLEASE PHONE 325 0181 FOR ANY UNCLEAR COMMENT AFTER SUCH SHORT NOTICE.

W H BUTLER
PRINCIPAL CONSULTANT W H + M A BUTLER

*
SANTOS AAB2716
10.28AM

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

APPENDIX IV

LAND TITLES SEARCH

Piggott, Wood & Baker
Barristers and Solicitors

724130

J. B. PIGGOTT, C.B.E., LL.B., NOTARY PUBLIC
B. H. CRAWFORD, LL.B., LL.M.
W. C. R. SALE, LL.B.
J. T. TURNER, LL.B.
C. P. R. HILL, LL.B.
E. L. G. TYLER, M.A. (OXON)

ASSOCIATES
S. F. MOLLARD, LL.B., B. JURIS.
R. C. WILLEE, LL.B.
M. G. FOSTER, LL.B.
D. E. KENCH, LL.B.

IN REPLY
PLEASE QUOTE
BHC:VC

BOX 408 D. D.P.O.,
178 MACQUARIE STREET,
HOBART, TASMANIA 7001

CABLE ADDRESS "PIWEN" HOBART
TELEPHONE 84 8211 (14 Lines)
TELEX AA 87073 (PIWEN)
AUS. DOC. — DX 117

YOUR REF: HN 2.01 ED:14
82 SDL:cjw

10 May 1982

S D Lee Esq
Senior Geologist/Minerals
Santos Ltd
Santos House
39 Grenfell Street
ADELAIDE SA 5000

Dear Sir

re: Land Titles Search - North Eastern Tasmania

We refer to your letter dated 15 April. Please find enclosed:

Plan of the relevant area with each lot numbered.
Index to the plan showing current landowners and also showing whether or not mineral rights are with the Crown or with the owner.

Please note that with respect to lots where there is private mineral ownership we have not checked each conveyance or transfer from the original grantee to determine whether or not any of the minerals were reserved to a particular or transferor. If this is desired please let us know.

With respect to the rights of an owner of minerals to exclude exploitation of such minerals by outsiders there has been no court decision of such rights within Tasmania. The Mining Act is not completely free from doubt.

If you wish us to provide an opinion for your legal section would you please let us know. The present view of the Mines Department is that it is possible for outsiders to exploit privately owned minerals without the consent of the owner of such minerals but subject to payment of compensation for damage to the surface of the land. In addition, there is provision in the Mining Act excluding certain types of private land such as land near residence, from any mining activity.

We understand that there is a case pending before the Wardens Court in which the rights of owners of minerals is to be tested. We do not know the likely hearing date and would expect it is quite likely to go on appeal regardless of the result. If you wish us to investigate the progress of this case would you please let us know.

We will shortly forward an account for this work. Please let us know if any further investigations are desired.

Yours faithfully
PIGGOTT, WOOD & BAKER

NORTH EAST TASMANIA - SANTOS LIMITEDIndex to Plan Showing Current Owners and
Ownership of Mineral Rights

	<u>Current Owner</u>	<u>Ownership of Mineral Rights</u>
1.	1,118 acres Cascade Brewery Co Ltd	Crown
2.	526.5 ha. Norden Pty Ltd	Crown
3.	16.74 ha. Norden Pty Ltd	Crown
4.	319 acres 3 roods Cascade Brewery Co Ltd	Crown
5.	120.6 ha. Cascade Brewery Co Ltd	Crown
6.	500 acres Cascade Brewery Co Ltd	Crown
7.	107.6 ha. John Thomas Probert	Crown
8.	172.9 ha. John Thomas Probert	Crown
9.	82.62 ha. Peggy Farquhar	Crown
10.	168.3 ha. Peter Thomas Walden and Suzanne Walden	Crown
11.	2560 acres Cascade Brewery Co Ltd	Gold & Silver with Crown, all other metals and minerals were granted to original grantee William H Browne in 1838
12.	625 acres Cascade Brewery Co Ltd	Gold & Silver with Crown, all other metals and minerals were granted to grantee, John Foster in 1843.
13.	Owned by Crown and under temporary licence of 1 April 1968 to Cascade Brewery Co Ltd	Crown

14. Leased to J T Probert
under lease B 3458 R/35 Crown
15. Leased to Cascade Brewery
Co Ltd by Crown Crown

