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696001

U.F.M.	A.O.	C.G.	E.O.	D.S.M.E.
				Registrar
Received	28 OCT 1982			E & IL
Answered				
DEPT. OF MINES				
REF. No. 8919/82				

OPEN FILE

MICROFILMED

E.L. 19/77 GREAT NORTHERN PLAIN
AND CONSOLIDATED LEASE 42M/76

QUARTERLY EXPLORATION PROGRESS REPORT
FOR PERIOD ENDING 11 OCTOBER, 1982
HELLYER MINING & EXPLORATION PTY. LTD.

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 - 2.1 Churn Drilling
 - 2.2 Check Assays
 - 2.3 Environmental Programme
 - 2.4 Preliminary Feasibility Studies

3. PROPOSED WORK

4. EXPENDITURE

Figure 1. Churn Drill Hole Location Map.

Appendix I Assay Data

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1. TENEMENT STATUS

Title to E.L. 19/77 has been renewed for a period of six months from 12 October, 1982 so as to bring the period of operation of the licence to five years, in accordance with current Departmental policy.

Grant of title to E.L.A. 17/82, which is contained within the boundary of E.L. 19/77 to the parent company SANTOS Ltd. has been delayed pending additional details on the proposed environmental programme being supplied to the Department of the Environment.

2. WORK COMPLETED

2.1 Churn Drilling

Drilling, using a Department of Mines rig, was continued during July, but then had to be suspended subject to grant of title to E.L.A. 17/82 and winter flooding. Four holes totalling 77.5 metres were completed and locations are shown in Figure 1. The holes are actually located in the northern part of E.L.A. 17/82 but the results are herein reported for the same reasons as given in the Progress Report for the period ending 11 July, 1982.

Summary data are provided in the table overleaf and detailed assay results are contained in Appendix I.

The drilling has utilized sand-suction pumps instead of the previously used bailers, in an effort to obtain a less disturbed sample and increased heavy mineral and volume recoveries. Volume recoveries are still somewhat erratic but, after a period of adjustment, the drillers have commented that the suction pump does seem to be a more effective drilling tool.

2.2 Check Assays

Concentrates from hole BL 13-12S were split and one split was assayed in the usual way while the other split was check-assayed by Comlabs in Adelaide. The results are listed in Appendix I. In contrast to the results of similar check-assaying of bulk sample concentrates (see Report for period ending 11-04-82), the check assays for BL13-12S were generally lower than the original assays. Further check assay work will be carried out on future drilling samples.

2.3 Environmental Programme

SANTOS' environmental personnel have discussed the Company's proposed exploration programme with representatives of the Tasmanian Conservation Trust and have submitted an Environmental Impact Statement to the Department. The environmental programme which has been formulated will encompass both E.L. 19/77 and E.L.A. 17/82 (when granted) and comprises three main aspects:

- (a) a vegetation survey of the potential dredging area and immediate surroundings.

CHURN DRILLHOLE DATA

<u>Hole No.</u>	<u>Total Depth</u> (metres)	<u>Vol. Rec.</u> (%)	<u>Overburden</u>		<u>Payzone</u>		<u>Total Intervals</u>	
			<u>Depth(m)</u>	<u>Grade(g/m³Sn)</u>	<u>Depth(m)</u>	<u>Grade(g/m³Sn)</u>	<u>Depth(m)</u>	<u>Grade(g/m³Sn)</u>
BL12-12S	18.5	63.9	14	16.8	3	334.9	17.0	72.9
BL13-10S	19.0	90.0	4	7.0	13	8.4	17.0	8.1
-12S	19.5	81.1	11	5.1	5.5	363.0	16.5	124.4
-13S	20.5	93.5	10	2.9	6.5	206.5	16.5	83.1

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- (b) a 15% random sample survey of archaeological sites over the operational zone, and
- (c) a surface and sub-surface hydrological survey of operational and environmentally sensitive areas.

2.4 Preliminary Feasibility Studies

Preliminary cash flow studies based upon an assumed resource which is approximately double the size of the presently inferred dredgeable reserves in the combined E.L. 19/77 - E.L.A. 17/82 - C.M.L. 42M/76 area have been carried out. The principal results are:

- (i) A sustained tin price of at least \$13,000/tonne is required for the project to be viable.
- (ii) Write-off of previous exploration expenditure increases the R.O.R. by 2.1% while a 50% increase in capital costs reduces the R.O.R. by 11.9%.
- (iii) If operating costs were to inflate at 11% greater than increases in the tin price, the project becomes uneconomic. However, historically, increases in the tin price appear to have kept pace with long term inflation in operating costs.

3. PROPOSED WORK

Churn drilling, environmental investigations and water table measurements will continue as tenement status, rig availability and access conditions permit.

4. EXPENDITURE

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

	\$
Salaries (Adelaide)	843
On Costs	252
Australian Travel and Accommodation	1,820
Employee Benefits - Other	113
Professional Services	1,399
Labour and Materials	1,621
Materials - Direct Purchase	204
Motor Vehicle - Operating Costs	466
Licence Fees	7,200
Surveying	1,494
Geological Services	9,758
Drilling	8,320
Laboratory Services	708
Rent and Utilities	302

TOTAL \$ 34,500

APPENDIX I.

ASSAY DATA.

696007

Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0985

000

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date _____

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	Weight g	VOL	% SN	Wt % g	WEIGHT % SPLIT CONCENTRA
	<u>BL-12/12</u>	<u>Small amount Tin, almonite.</u>	<u>0</u>	<u>2</u>	<u>97.1</u>	<u>9</u>	<u>0.82</u>	<u>0.80</u>	
		<u>almonite</u>	<u>2</u>	<u>4</u>	<u>99.9</u>	<u>14</u>	<u>0.05</u>	<u>0.95</u>	
		<u>Small amount Tin, almonite</u>	<u>4</u>	<u>6</u>	<u>113.9</u>	<u>43</u>	<u>0.33</u>	<u>0.38</u>	
		<u>Lo Tin, almonite</u>	<u>6</u>	<u>8</u>	<u>96.0</u>	<u>30</u>	<u>0.17</u>	<u>0.16</u>	
		<u>almonite</u>	<u>8</u>	<u>10</u>	<u>99.3</u>	<u>33</u>	<u>0.07</u>	<u>0.07</u>	
		<u>"</u>	<u>10</u>	<u>11</u>	<u>115.4</u>	<u>11</u>	<u>0.03</u>	<u>0.03</u>	
		<u>almonite, Pyrite</u>	<u>11</u>	<u>12</u>	<u>98.9</u>	<u>12</u>	<u>0.04</u>	<u>0.04</u>	
		<u>almonite</u>	<u>12</u>	<u>13</u>	<u>94.9</u>	<u>14</u>	<u>0.04</u>	<u>0.04</u>	
		<u>very fine Lo Tin, almonite</u>	<u>13</u>	<u>(14)</u>	<u>103.0</u>	<u>12.5</u>	<u>0.11</u>	<u>0.11</u>	
		<u>Tin, Gold, almonite, Blackfich.</u>	<u>14</u>	<u>15</u>	<u>119.9</u>	<u>12</u>	<u>1.54</u>	<u>3.82</u>	<u>128.2</u>
		<u>Small amount Tin, Gold, almonite, Blackfich.</u>	<u>15</u>	<u>15.50</u>	<u>107.7</u>	<u>6.5</u>	<u>0.84</u>	<u>1.83</u>	<u>110.6</u>
		<u>" " " " " "</u>	<u>15.50</u>	<u>16</u>	<u>95.1</u>	<u>7</u>	<u>1.22</u>	<u>2.39</u>	<u>100.5</u>
		<u>Tin, Gold, almonite, Blackfich.</u>	<u>16</u>	<u>16.50</u>	<u>109.6</u>	<u>10.5</u>	<u>2.60</u>	<u>5.82</u>	<u>112.6</u>
		<u>Lo Tin, almonite, pyrite</u>	<u>16.50</u>	<u>17</u>	<u>92.0</u>	<u>6.5</u>	<u>0.67</u>	<u>1.27</u>	<u>97.9</u>
		<u>very fine Lo Tin, Pyrite</u>	<u>17</u>	<u>17.50</u>	<u>113.1</u>	<u>4.5</u>	<u>0.04</u>	<u>0.09</u>	<u>120.0</u>
		<u>Pyrite:</u>	<u>17.50</u>	<u>18.50</u>	<u>92.7</u>	<u>12</u>	<u>0.03</u>	<u>0.06</u>	<u>95.4</u>

Invoice and 2 copies of results to
AMDEX MINING LTD.
PO Box 147
North Sydney, N.S.W. 2060

Copy of results to
Attention:

Remarks

Detection limits

Place analysed

Date analysed

Analyst

896008

Field

AMDEX MINING LIMITED

SHEET No 0983

007

GENERAL SAMPLE DESCRIPTION

State TAS Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date 19/7/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS			
			FROM	TO	Weight g.	UGL	% SN.	Wt Sn
	<u>Bh-13/10</u>	<u>To ilmenite</u>	<u>0</u>	<u>2</u>	<u>84.8</u>	<u>18</u>	<u>0.10</u>	<u>0.08</u>
		<u>To Tin, ilmenite</u>	<u>2</u>	<u>4</u>	<u>85.4</u>	<u>21</u>	<u>0.24</u>	<u>0.20</u>
		<u>" " "</u>	<u>4</u>	<u>5</u>	<u>98.9</u>	<u>21</u>	<u>0.30</u>	<u>0.30</u>
		<u>" " "</u>	<u>5</u>	<u>6</u>	<u>123.6</u>	<u>22</u>	<u>0.09</u>	<u>0.11</u>
		<u>very fine to tin, ilmenite.</u>	<u>6</u>	<u>8</u>	<u>101.2</u>	<u>43</u>	<u>0.09</u>	<u>0.09</u>
		<u>ilmenite, pyrite.</u>	<u>8</u>	<u>10</u>	<u>98.9</u>	<u>27</u>	<u>0.09</u>	<u>0.09</u>
		<u>To Tin, ilmenite</u>	<u>10</u>	<u>12</u>	<u>80.7</u>	<u>50</u>	<u>0.13</u>	<u>0.10</u>
		<u>To Tin, pyrite, ilmenite.</u>	<u>12</u>	<u>14</u>	<u>103.2</u>	<u>72</u>	<u>0.31</u>	<u>0.32</u>
		<u>pyrite.</u>	<u>14</u>	<u>15</u>	<u>97.4</u>	<u>19</u>	<u>0.09</u>	<u>0.09</u>
		<u>very fine to tin, pyrite.</u>	<u>15</u>	<u>16</u>	<u>84.0</u>	<u>10</u>	<u>0.05</u>	<u>0.04</u>
		<u>To tin, pyrite.</u>	<u>16</u>	<u>16.50</u>	<u>107.8</u>	<u>6</u>	<u>0.15</u>	<u>0.16</u>
		<u>" " "</u>	<u>16.50</u>	<u>17</u>	<u>98.7</u>	<u>2.5</u>	<u>0.22</u>	<u>0.22</u>
		<u>very fine to tin, pyrite.</u>	<u>17</u>	<u>17.50</u>	<u>85.0</u>	<u>4.5</u>	<u>0.16</u>	<u>0.14</u>
		<u>pyrite.</u>	<u>17.50</u>	<u>18</u>	<u>90.5</u>	<u>3.5</u>	<u>0.05</u>	<u>0.05</u>
		<u>" "</u>	<u>18</u>	<u>19</u>	<u>94.8</u>	<u>7.5</u>	<u>0.04</u>	<u>0.04</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.....

696009

Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0983008

State TA5 Project Name G.N. PLAINS Project No. _____ Sampled by S. MOORE Date _____

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS				
			FROM	TO	UGL	Weight g.	% S.N.	U/Sn	Weight SP. IT CONCENTRA
	<u>BL-13/12</u>	<u>Tr. ilmenite</u>	<u>0</u>	<u>2</u>	<u>17</u>	<u>107.0</u>	<u>0.05</u>	<u>0.05</u>	
		<u>ilmenite</u>	<u>2</u>	<u>4</u>	<u>25</u>	<u>107.0</u>	<u>0.14</u>	<u>0.15</u>	
		<u>"</u>	<u>4</u>	<u>6</u>	<u>27</u>	<u>84.4</u>	<u>0.12</u>	<u>0.10</u>	
		<u>"</u>	<u>6</u>	<u>8</u>	<u>30.5</u>	<u>86.1</u>	<u>0.09</u>	<u>0.09</u>	
		<u>ilmenite, pyrite</u>	<u>8</u>	<u>10</u>	<u>39.5</u>	<u>80.7</u>	<u>0.09</u>	<u>0.07</u>	
		<u>Tr. Tin, pyrite, ilmenite</u>	<u>10</u>	<u>11</u>	<u>14</u>	<u>95.2</u>	<u>0.32</u>	<u>0.30</u>	
		<u>" " "</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>144.9</u>	<u>0.05</u>	<u>0.35</u>	
		<u>Tin, Gold, ilmenite, Blackjack</u>	<u>12</u>	<u>12.50</u>	<u>16</u>	<u>97.0</u>	<u>1.81</u>	<u>2.65</u>	<u>105.1</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>12.50</u>	<u>13</u>	<u>5.5</u>	<u>90.9</u>	<u>0.74</u>	<u>1.46</u>	<u>105.9</u>
		<u>" " " "</u>	<u>13</u>	<u>13.50</u>	<u>13</u>	<u>89.7</u>	<u>1.00</u>	<u>1.89</u>	<u>99.0</u>
		<u>Large amount Tin, Gold, ilmenite, Blackjack</u>	<u>13.50</u>	<u>14</u>	<u>28</u>	<u>99.5</u>	<u>8.64</u>	<u>17.85</u>	<u>102.4</u>
		<u>" " " "</u>	<u>14</u>	<u>14.50</u>	<u>25</u>	<u>103.9</u>	<u>6.16</u>	<u>12.23</u>	<u>94.7</u>
		<u>" " " "</u>	<u>14.50</u>	<u>15</u>	<u>5.5</u>	<u>86.7</u>	<u>2.45</u>	<u>4.48</u>	<u>96.1</u>
		<u>Tin, Gold, ilmenite, Blackjack</u>	<u>15</u>	<u>15.50</u>	<u>5.5</u>	<u>83.8</u>	<u>2.59</u>	<u>4.37</u>	<u>85.1</u>
		<u>Small amount Tin, ilmenite, Blackjack</u>	<u>15.50</u>	<u>16</u>	<u>6.0</u>	<u>81.1</u>	<u>1.33</u>	<u>5.12</u>	<u>78.0</u>
		<u>Tr. Tin, Pyrite</u>	<u>16</u>	<u>16.50</u>	<u>7.0</u>	<u>97.9</u>	<u>0.25</u>	<u>0.49</u>	<u>97.9</u>
		<u>Pyrite</u>	<u>16.50</u>	<u>17</u>	<u>6.0</u>	<u>86.3</u>	<u>0.09</u>	<u>0.15</u>	<u>82.6</u>
		<u>"</u>	<u>17</u>	<u>17.50</u>	<u>5.5</u>	<u>90.4</u>	<u>0.05</u>	<u>0.09</u>	<u>84.4</u>
		<u>"</u>	<u>17.50</u>	<u>18.50</u>	<u>14.0</u>	<u>85.7</u>	<u>0.06</u>	<u>0.10</u>	<u>81.8</u>

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

Attention

REMARKS

Detection limits

Place analysed

Date analysed

Analyst

696010

Laboratory

AMDEX MINING LIMITED

GENERAL SAMPLE DESCRIPTION

SHEET No 0984 009

State TAS Project Name C-N PLAINS Project No. _____ Sampled by S. MOORE Date 29/7/82

SAMPLE NUMBER	LOCATION/ DRILL HOLE NUMBER	SAMPLE DESCRIPTION	DRILLING METERAGE		ANALYSIS			
			FROM	TO	Weight g	Loss %	% SN	Wt Sn g
	BL-13/13	Tr ilmenite	0	2	92.0	15	0.03	0.03
		very fine tin, ilmenite	2	4	101.2	22	0.15	0.15
		ilmenite	4	6	99.6	38	0.07	0.07
		"	6	8	107.0	29	0.06	0.06
		"	8	(10)	93.8	28	0.05	0.05
		Tr Tin, ilmenite	10	10.70	98.7	6	0.04	0.03
		"	10.70	11	98.6	10	0.02	0.01
		Large amount tin, ilmenite, Blackjack	11	11.50	115.0	36	7.09	9.07
		Tin, ilmenite, Blackjack	11.50	12	101.5	9	3.20	3.25
		Large amount tin, ilmenite, Blackjack	12	12.50	105.9	13	4.37	4.63
	Tin, ilmenite, Blackjack	12.50	13	82.2	5	2.97	2.44	
	"	13	13.50	117.8	8	2.34	2.76	
	Small amount tin, ilmenite, Blackjack	13.50	14	129.4	7	1.11	1.44	
	Tin, ilmenite, Blackjack	14	14.50	94.7	7	3.02	2.86	
	Tr Tin, ilmenite	14.50	15	109.7	25	0.27	0.30	
	Pyrite	15	15.50	115.2	18	0.04	0.05	
	"	15.50	16	115.7	29	0.08	0.09	
	Small amount tin, pyrite	16	16.50	88.2	19	1.11	0.98	
	Pyrite	16.50	17	116.2	9	0.05	0.06	
	"	17	17.50	118.0	6.5	0.03	0.04	
	"	17.50	18	115.0	9	0.04	0.05	
	"	18	18.50	91.2	25	0.04	0.04	
	"	18.50	19	109.2	2.5	0.04	0.04	
	"	19	19.50	93.5	5	0.03	0.05	

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 North Sydney N.S.W. 2060

Attention

Remarks

Detection limits

Place analysed

Date analysed

Analyst



COMLABS Pty. Ltd.
COMPUTERISED ANALYTICAL LABORATORIES

File HM2.05

Head Office and
Central Laboratory
305 SOUTH ROAD,
MILE END SOUTH
STH. AUST. 5031
TEL: (08) 43 5722
TELEX: AA89323

696011



NATA REGISTERED No. 1526

OUR REF: COM 821637

YOUR REF: SDL/5307/029

Mr. S. Lee,
Santos Ltd,
39 Grenfell Street,
ADELAIDE. S.A. 5000,

3.9.82

Dear Simon,

RE: JOB COM 821637

Enclosed are the assays for the samples delivered to our laboratory on the 20th August, 1982.

Yours sincerely,

Harry Fishman
Managing Director

c.c.: ADELAIDE



ANALYTICAL REPORT

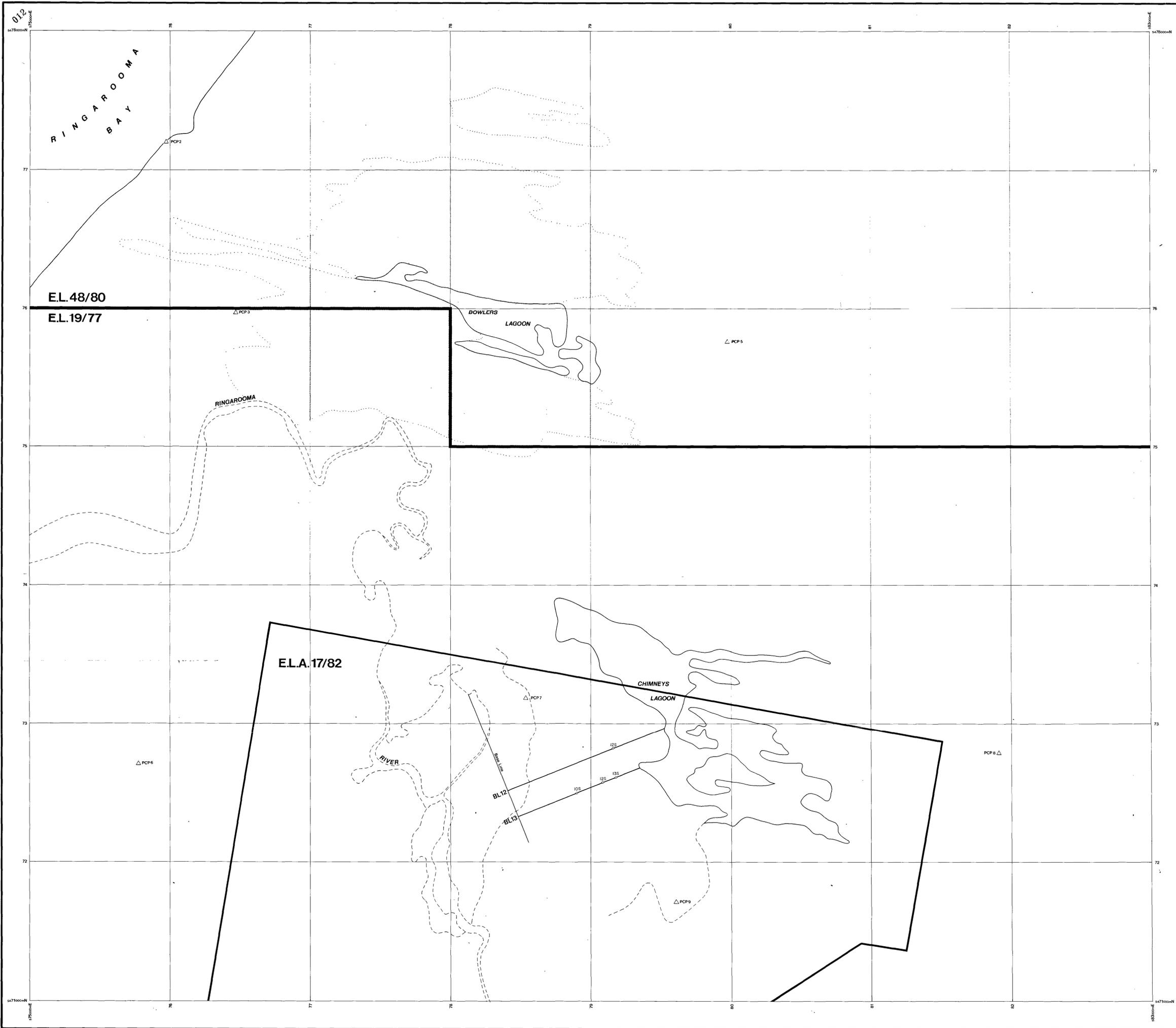
JOB COM821637

O/N : SDL/5307/029

Results in ppm

SAMPLE	Sn	Ta	Wt(g)
BL 13/12 12.0 to 12.5	1.50%	15	104.3
BL 13/12 12.5 to 13.0	3900	10	105.6
BL 13/12 13.0 to 13.5	6850	10	98.7
BL 13/12 13.5 to 14.0	8.10%	95	102.0
BL 13/12 14.0 to 14.5	5.70%	70	94.2
BL 13/12 14.5 to 15.0	2.10%	25	95.8
BL 13/12 15.0 to 15.5	2.10%	25	84.5
BL 13/12 15.5 to 16.0	1.08%	10	77.4
BL 13/12 16.0 to 16.5	2950	<10	97.5
BL 13/12 16.5 to 17.0	480	<10	82.4

Method of Analysis : Sn Ta : XRF1/2



LOCALITY



- Creek
- Sand Area
- Drill-Hole

HELLYER MINING & EXPLORATION PTY. LTD.

NORTH EAST TASMANIA
E.L. 19/77 GREAT NORTHERN PLAINS
DRILL-HOLE LOCATIONS
 (JULY-SEPTEMBER 1982)

696013

