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538001

EW 19/70

B. M. I.

Monthly Reports for

Oct. ; Nov. ; Dec. 1974.

& Feb. 1975

**MICROFILMED**

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REPORT ON EXPLORATION CONDUCTED ON EL19/70  
FOR THE MONTH OF OCTOBER, 1974 BY B.M.I.  
MINING PTY. LIMITED.

SUMMARY:

For some time the Company has been in possession of a plan prepared by the Clarence Tin Prospecting Syndicate, which showed a series of drill holes running east to west across the Little Boobyalla River, extending over approximately two miles in length. The date of this work is unknown, however, the same area was held by Romsey Tin Development Pty. Ltd., in 1937, and it is thought that this was later than the Clarence Syndicate.

A copy of the plan BMI-X8-22 has been forwarded to the Mines Department, from which can be seen that the Clarence drilling indicated some 418 tons at an average grade of 10.88 ounces per cubic yard.

INTRODUCTION:

Following a detailed investigation by a firm of consultants G.H. and A.J. Watson on this E.L. and company held leases it has been suggested that the most feasible way to mine the Endurance and Monarch deposits would be by suction cutter dredge, and detailed planning to this end is currently being undertaken by staff engineers in Sydney. However, to minimise costs and to alleviate the necessity of pulling down and rebuilding a dredge to move from one area to another, if an area, sufficiently rich in mineral could be found, joining the two deposits, then the dredge could mine continuously. It is possible that the Little Boobyalla River or the "Clarence Area" as we have named it affords such a possibility, and therefore in September, 1974, an exploration programme was designed to check the veracity of the old drilling, and work commenced on October 1st, 1974.

SURVEYING:

In order that the drilling be placed on the state grid and so comply with drilling previously undertaken on company leases at Endurance, a closed traverse was completed by company staff, and drill holes surveyed in and levelled.

TOPOGRAPHY:

The area is marshy river flats with heavy tea tree scrub, and fairly heavily timbered hills rising on either side. Considerable granite outcrops are evident on the western hill in the vicinity of line one, although a large face has been worked only a few chain north of the line in previous years. A large amount of tailings have issued from this mine have spread out over the flats to the north of line 2.

DRILLING:

During the month eleven percussion holes were drilled as follows:

Hole No.	Depth to Basement.	Basement.	Total Depth Drilled.
1	6'	Decomposed granite	11'
2	15'	" "	20'
3	18'	" "	23'
4	16'6"	Granite Rock	17'
5	11'	" "	11'6"
6	12'	" "	12'6"
7	10'	" "	11'6"

<u>Hole No.</u>	<u>Depth to Basement.</u>	<u>Basement.</u>	<u>Total Depth Drilled.</u>
8	8'6"	Granite Rock	8'6"
9	13'6"	Decomposed granite	16'
10	27'	" "	30'
11	23'6"	" "	28'

The surface on this line so far drilled is generally level, so that it would appear that holes 9,10, and 11 are forming a channel.

Assays:

To date only four holes have been assayed with the following results.

Hole 1	Nil
Hole 2	0.05 oz/yd 3
Hole 3	0.36 oz/yd 3
Hole 4	1.33 oz/yd 3

These holes, together with holes 5 and 6 are on the eastern side of the river, and are sited in mud flats, recovered core contained mostly silt and sediment with only a slight trace of wash in hole 4. To date holes 10 and 11 are the only ones in which good traces of wash are evident. Hole 10 in particular shows a 3 foot intersection of wash up to 2" dia. When assays are completed for this line we will forward copies of drill logs to you to supplement this report.

Expenditure:

During the month the sum of \$1600 was expended on the above, made up of wages for one driller and one offsider, transport and fuel. Surveying and supervision. Drill hire amounting to \$420.00 gives a total expenditure of \$2,020.00.

Plans:

Enclosed is a 20 chain to 1 inch locality plan showing the area under review in relation to the consolidated lease and a sketch plan at the scale of 5 chain to 1 inch showing the location of line 1.



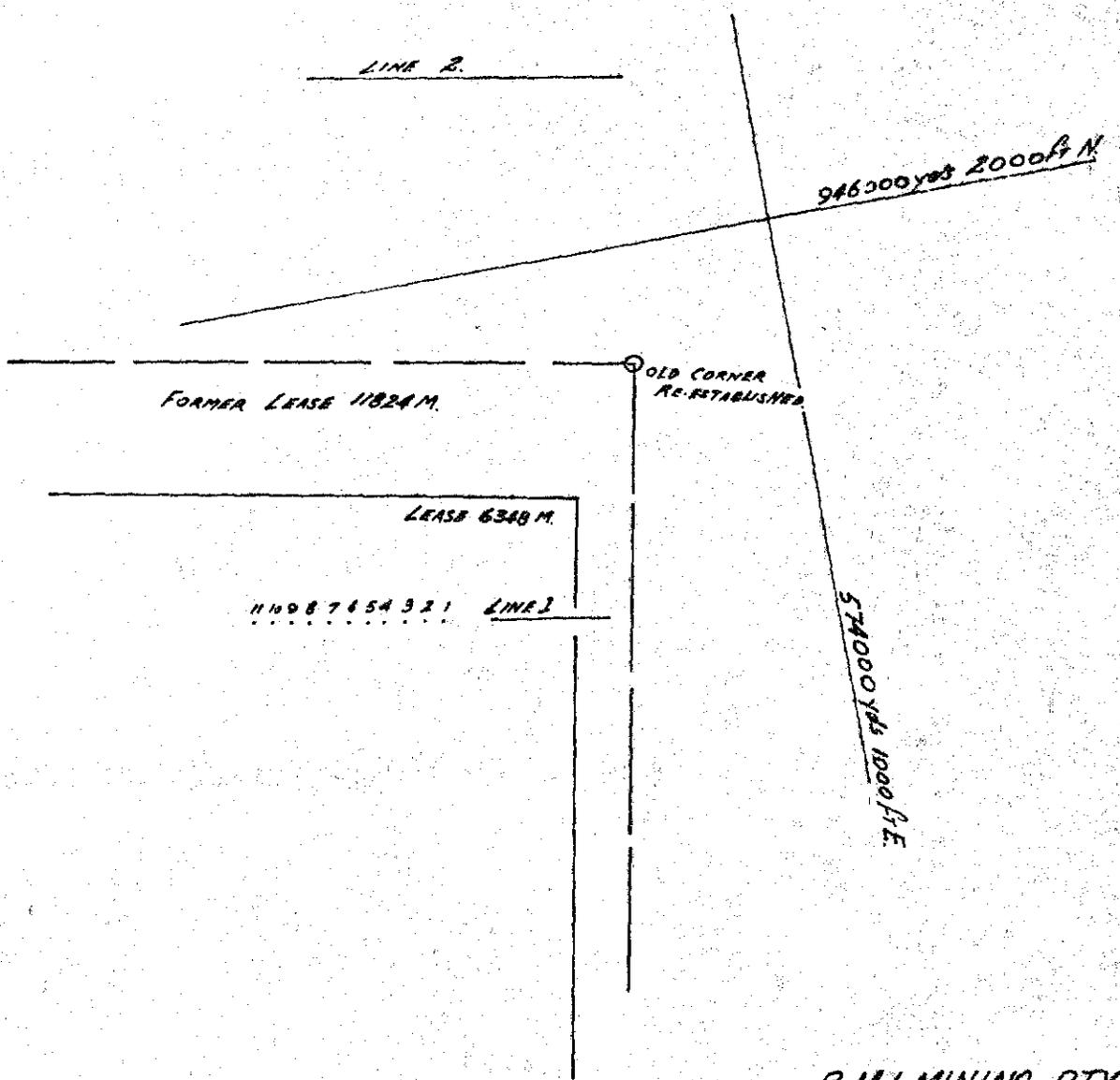
I.H. WILLIAMS.  
Exploration Supervisor.

IHW/lk



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B.M.I. MINING PTY LTD.  
 "CLARENCE" AREA DRILLING  
 SCALE Schisms to 1/12500.

REF DRG No B.M.I.-X8-22.

L.M.W. OCTOBER 1974.

538006

REPORT ON EXPLORATION CONDUCTED ON EL19/70  
FOR THE MONTH OF NOVEMBER, 1974, BY B.M.I.  
MINING PTY. LIMITED.

DRILLING:

Work continued on the area known as "Hasties" in the vicinity of the Little Boobyalla River.

Two holes, Nos. 12 and 13 were drilled to complete line 1 and three holes, 14, 15 and 16 were drilled on line 2.

Results of holes drilled to date are summarized hereunder with values reported as cassiterite assumed to be 70% Sn.

Hole No.	Assay Depth.	Value. Oz/ Cubic Yard
1	11'	Nil
2	15'	0.05
3	18'	0.36
4	16'6"	1.33
5	11'	0.30
6	12'	Nil
7	10'	Nil
8	8'6"	Nil
9	15'	0.16 <sup>t</sup>
10	30'	0.24
11	24'	2.05
12	12'	0.19
13	3'6"	Nil
14	80'	1.21
15	75'	0.39
16	75	Not Assayed

On line 1 a well defined channel was discovered between holes 9 and 12 however values were not good. The three holes drilled to date on line 2 are very much deeper than anticipated, and it is our thought at the moment that we are probably drilling along the Endurance lead. We plan to continue with the programme as designed and when completed we will come back to line 2 and drill across the strike to check our theory. It is interesting to note that Hughes stated on the original plan of this area that on the road in line with line 2 that "Endurance lead was 90 feet deep".

Drill logs for all holes completed, with the exception of hole 16 are enclosed.

Surface prospecting was commenced on the area north of our consolidated lease at Monarch, and this will be continued during the coming months, to locate sites for the Gemco drill to work during the summer period.

Costs for work undertaken on the E.L. for the month amounted to \$2,303.2.



I.H. WILLIAMS,  
EXPLORATION SUPERVISOR.

IHW/1k

c.c. A.T.M., K.R.D., I.H.W.

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B.M.I. MINING PTY. LIMITEDSOUTH MOUNT CAMERON

Report on Exploration Conducted on EL19/70 for the Month  
of December, 1974, by B.M.I. Mining P/L.

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Hasties:- No further drilling was done during the period  
however, hole 16 on line 2 was assayed with the following  
results:-

Depth 75' - 0.35 oz / cubic yard Cassiterite.

The remaining holes on line 2 were surveyed in  
and Line 3 established.

Surface prospecting was carried out on the area south  
of the consolidated lease at Sth. Mt. Cameron in the region  
of former lease 11232/M in an attempt to find viable shallow  
ground possibilities. Samples were taken from old faces and  
others by prospect holes to 2 feet. To date a small area has  
been delineated averaging 8 oz / cubic yard. This work will  
be continued.

Expenditure on EL/19/70 for the month amounted to  
\$662.68. The Company ceases operation for the Christmas  
Vacation from December 20th, 1974 and recommences on January  
23rd, 1975.



I.H. Williams.  
Exploration Supervisor.



K. R. Davey,  
Mine Manager.

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# B.M.I. MINING PTY. LIMITED

A Unit of Blue Metal Industries Limited

PRIVATE BAG, SOUTH MOUNT CAMERON 7254

Registered Office  
"CENTURY HOUSE"  
70 PITT STREET  
SYDNEY

Telephone :  
57 2140  
Telex :  
58663

7th March, 1975.

The Director of Mines,  
Department of Mines,  
Davey Street,  
HOBART. TAS. 7000.

D.M.	A.O.	CG	CC&M	D.S.M.E.
RECEIVED				Registrar
ANSWERED				E & I L
DEPT OF MINES				
REF. No. 1264/75				

*J.N.*

Dear Sir,

Re: E.L. 19/70.

We submit herewith our monthly report on work conducted within the above licence, attached to which is a transparency showing cross sections of drill holes completed to date, and copies of drill logs.

The above licence expires on the 24th of this month, and we herewith request a further six month extension.

During the preceeding six months, we have drilled 22 percussion holes in the Hasties area, which is only two lones of a proposed ten. In addition to the original proposed drilling we now feel that the drilling may have to be increased to delineate the boundaries of a channel that appears to exist running east west, and which is separate from the north south trending channel we were originally seeking.

Expenditure on E.L. 19/70 during the preceeding six months amounted to \$6,537.00.

The licence document is enclosed for endorsement, should our application for an extension meet with your approval.

Yours faithfully,  
B.M.I. MINING PTY. LIMITED,

K.R. Davey,  
Mine Manager.

Encls.  
IHW/1k

SUBMITTED AND RECOMMENDED

AT S

*[Signature]*

DEPT OF MINES

APPROVED

MINISTER FOR MINES

DATE / /

*With J.M.D.*

B.M.I. MINING PTY. LIMITED  
SOUTH MOUNT CAMERON

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Report on Exploration conducted on E.L. 19/70 for the month of February, 1975, by B.M.I. Mining Pty. Limited.

Hasties:

Percussion drilling was continued in this area and a further five holes were completed. Drill logs for these holes are attached, the results are summarized hereunder:

Hole No.	Depth to Basement:	Overall Value from Surface To:	Oz/Cubic Yard Cassiterite Assumed 70%Sn.
18	68	68	0.50
19	58	58	0.01
20	40	40	0.22
21	42	45	1.05
22	47	47	0.96

It is evident from the cross sections (attached) that the bottom is rising to the west, and that the first hole (14) appears to be on the edge of the channel.

Accordingly a hole 14A has been sited 60 feet east of hole 14, with the intention of determining if such a channel exists, in which case, the line will be prolonged further eastwards to delineate its boundaries.

At the same time the thought exists that we may in fact be on the extension of the Endurance Lead which may be swinging northwards. A point which we may well prove with holes 14A and 14B. In this case a line of holes will be sited north and south across the channel to determine its swing.

The values recovered to date are most disappointing, in view of the fact that the ground gives promise of being ideal tin bearing material. Two distinct bands of small wash are evident, and the heavy wash shown on the sections is large 2" diameter well worn particles.

Expenditure for the period amounted to \$1,972.00 made up of:

1. Drill hire.
2. Drillers wages and on costs.
3. Dozer hire.
4. Transport.
5. Surveying and supervision.



I.H. WILLIAMS,  
Exploration Supervisor.

IHW/lk  
c.c. Messrs. A. Jordan.  
T. Mearing.  
K. Davey  
File.

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B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **14A**LINE No.: **2**SURFACE R.L.: **205.14**BASEMENT R.L. **115.14**

DATE: **March '75** DRILLING CO.: **B.M.I.** RIG No.: **1** DRILLER **P. Oliver** SAMPLE WASHER: **I. Williams** OUR SUPERVISOR **I.H.W.** CASING SHOE DIA **6-3/4**

Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70 % oz./cu. yd.			
Surface	5		0.65	0.10					0-2 Top soil	
5	10		0.45	0.30					)2-13 Coarse sand	
10	15		0.44	0.00					)	
15	20		0.74	0.30					13-22 Coarse sand with bands of coarse sandy white clay.	
20	25		0.50	0.40					22-24 Coarse sand with bands of coarse sandy white clay & traces of wash	
25	30		1.13	1.70					24-30 Coarse sandy white clay with wash up to 2".	
30	35		0.95	0.70					30-39 Coarse sand and wash up to 2".	
35	40		0.68	0.50					39-48 Drift with bands of sandy pug.	
40	45		0.74	0.20						
45	50		0.72	0.30					48-56 Drift	
50	55		0.96	0.50						
55	60		0.50	0.20					56-61 Drift with wash up to 1 1/2".	
60	65		0.64	0.40					61-69'6" Drift with traces of small wash.	
65	70		0.63	0.50					69'6"-90 Coarse sand and heavy wash up to 3"	
70	75		0.58	0.60						
75	80		0.85	0.60						
80	85		0.95	0.30						
85	90		0.87	0.00						
90	95		0.95	0.00					90 Decomposed Granite.	

Driller's Reported Basement at **90** feet.

Overall value from surface to **85** feet. { **0.43** lb./cu. yd. (Sn.)  
oz./Cu. yd. (Cassiterite 70% Sn.)  
**Assumed.**

B.M.I. MINING PTY. LIMITED — TASMANIA

538011

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**PERCUSSION DRILL LOG**

AREA: **Hasties**

HOLE No.: **17**

LINE No.: **2**

SURFACE R.L.: **196.61**

BASEMENT R.L.: **116.61**

DATE: **Jan, '75** DRILLING CO.: **B.M.I. Mining** RIG No.: **1** DRILLER **P. Oliver** SAMPLE WASHER: **E. King** OUR SUPERVISOR: **I.H. Williams** CASING 6-3/4" SHOE DIA.

Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70% oz./cu. yd.			
Surface	5		0.18	0.00						
5	10		0.63	1.00				0-7 Tailings, 7 - 8 Coarse sand and silt		
10	15		0.73	1.00				8-14 Coarse sand		
15	20		0.40	1.00				14-19 Decomposed vegetation		
20	25		0.32	0.20				19-24 Fine sand, 24-25 White sandy clay & wash up to 1"		
25	30		0.50	3.00				25-27 Coarse sand and wash up to 1", 27-30 drift & bands of white clay		
30	358		0.75	2.00						
35	40		1.24	0.00				30-53 Coarse sand - drift		
40	45		0.82	0.40						
45	50		0.82	0.50						
50	55		0.85	0.20				53-62 Coarse sand - drift with traces of wash up to 1"		
55	60		1.50	0.50						
60	65		0.65	1.50				62-65 Coarse sand with wash up to 1"		
65	70		1.30	0.40				65-69 Coarse sand and white sandy clay with traces of wash up to 1"		
70	75		0.82	0.50				69-77 Coarse sand and heavy wash up to 1 1/2" to 1 1/2"		
75	80		0.64	1.20						
80	82		0.40	0.30				77 Decomposed granite		

Driller's Reported Basement at **77** feet.

Overall value from surface to **80** feet. { **0.78** lb./cu. yd. (Sn.) oz./Cu. yd. (Cassiterite 70% Sn.)

538012

B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **18**LINE No.: **2**SURFACE R L **195.40**BASEMENT R L **127.40**DATE **Feb '75** DRILLING CO.: **B.M.I. Mining** RIG No.: **1** DRILLER **P. Oliver** SAMPLE WASHER: **E. King** OUR SUPERVISOR **I.H. Williams** CASING SHOE DIA **6-3/8**

Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70% oz./cu. yd.			
Surface	<b>5</b>		<b>0.50</b>	<b>0.00</b>					<b>0 - 3 Tailings, 3 0 5 Silt</b>	
<b>5</b>	<b>10</b>		<b>0.67</b>	<b>0.00</b>						
<b>10</b>	<b>15</b>		<b>0.66</b>	<b>0.00</b>					<b>5 - 13 Coarse sand</b>	
<b>15</b>	<b>20</b>		<b>1.00</b>	<b>0.00</b>					<b>13 - 19 Silt and coarse sand</b>	
<b>20</b>	<b>25</b>		<b>0.86</b>	<b>1.00</b>					<b>19 - 26 Coarse sand</b>	
<b>25</b>	<b>30</b>		<b>0.45</b>	<b>2.00</b>					<b>26 - 30 White sandy clay and wash up to 1 1/2"</b>	
<b>30</b>	<b>35</b>		<b>0.78</b>	<b>1.00</b>						
<b>35</b>	<b>40</b>		<b>0.84</b>	<b>2.00</b>						
<b>40</b>	<b>45</b>		<b>0.75</b>	<b>0.50</b>					<b>30-68 Coarse sand - drift.</b>	
<b>45</b>	<b>50</b>		<b>0.85</b>	<b>0.00</b>						
<b>50</b>	<b>55</b>		<b>0.54</b>	<b>0.00</b>						
<b>55</b>	<b>60</b>		<b>1.32</b>	<b>0.50</b>						
<b>60</b>	<b>65</b>		<b>0.75</b>	<b>0.00</b>						
<b>65</b>	<b>70</b>		<b>0.75</b>	<b>0.00</b>					<b>68 Decomposed Granite</b>	

Driller's Reported Basement at **68** feet.Overall value from surface to **68** feet. { **0.50** lb./cu. yd. (Sn).  
oz./Cu yd (Cassiterite 70% Sn)  
**Assumed.**

538013

B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **19**LINE No.: **2**SURFACE R.L.: **195.52**BASEMENT R.L.: **137.52**DATE: **Feb'75** DRILLING CO.: **B.M.I. Mining**RIG No.: **1**DRILLER **P. Oliver**SAMPLE WASHER: **K. Madden**OUR SUPERVISOR: **I.H. Williams**CASING **6-3/4**  
SHOE DIA

Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70% oz./cu. yd.			
Surface	5		0.75	0.00					0-3 Tailings	
5	10		0.50	0.00					3-10 Coarse sand and silt	
10	15		0.50	0.00						
15	20		0.74	0.20					10-22 Coarse sand	
20	25		0.66	0.20						
25	30		0.38	0.10					22-28 Coarse sand and silt, 28-30 fine sand	
30	35		0.28	0.30					30-34 Coarse sand and wash up to 1 1/2" 34 - 35 coarse sand.	
35	40		0.36	0.20					35-39 Coarse sand white clay	
40	45		0.72	0.00					39-44 Coarse sand and wash up to 1 1/2"	
45	50		0.60	0.00					44-54 Coarse sand - drift	
50	55		0.36	0.10					54-57 Coarse sandy clay	
55	60		0.52	0.00					57-58 Coarse sand and wash up to 1".	
60	63		0.34	0.00					58 Decomposed granite.	

Driller's Reported Basement at **58** feet.Overall value from surface to **58** feet. { **0.01** lb./cu. yd. (Sn.)  
oz./Cu yd (Cassiterite 70% Sn)  
**assumed**

538014

B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **20**LINE No.: **2**SURFACE R.L.: **195.52**BASEMENT R.L.: **155.52**DATE: **Feb'75**DRILLING CO.: **B.M.I. Mining**RIG No.: **1**DRILLER **P. Oliver**SAMPLE WASHER: **K. Madden**OUR SUPERVISOR: **I Williams**CASING **6-3/4**  
SHOE DIA.

Section Feet		Sample Code	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70% oz./cu. yd.			
Surface	5		0.40	0.00				0 - 4 Tailings		
5	10		1.16	0.00				4 - 16 Coarse sand and silt		
10	15		0.42	0.00						
15	20		0.83	0.10				16 - 28 Coarse sand		
25	30		0.76	0.30						
30	35		0.94	0.90				28 - 36 Coarse sand wash up to 1"		
35	40		0.45	0.50				36 - 40 Coarse sand with bands of white clay and traces of wash.		
40	45		0.45	0.00				40 Decomposed granite.		

Driller's Reported Basement at **40** feet.Overall value from surface to **40** feet. { **0.22** lb./cu. yd. (Sn.)  
oz./Cu. yd. (Cassiterite 70% Sn.)  
assumed

538015

B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **21**LINE No.: **2**SURFACE R.L.: **196.41**BASEMENT R.L.: **151.41**DATE: **Feb '75** DRILLING CO.: **B.M.I. Mining** RIG No.: **1**DRILLER **P. Oliver**SAMPLE WASHER: **E, King.**OUR SUPERVISOR: **I.H. Williams**CASING **6-3/8**  
SHOE DIA.

Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70 % oz./cu. yd.			
Surface	5		0.28	0.00				0 - 5 Coarse sand - tailings.		
5	10		0.63	0.00				5 - 7 Coarse sand and silt		
10	15		0.56	0.00				)		
15	20		0.75	0.10				) Coarse sand		
20	25		0.62	0.10				)		
25	30		0.94	0.20				24 - 26 Coarse sand and silt 26 - 30 coarse sand		
30	35		0.86	0.50				30 - 34 Coarse sand and wash up to 1"		
35	40		1.56	0.30				34 - 39 Coarse sand		
40	45		0.95	8.55				39 - 42 Coarse sand and wash up to 2".		
45	48		0.25	0.55				42 Decomposed Granite.		

Driller's Reported Basement at **42** feet.Overall value from surface to **45** feet. { **1.05** lb./cu. yd. (Sn.)  
oz./Cu. yd. (Cassiterite 70 % Sn.)  
**assumed**

538016

## B.M.I. MINING PTY. LIMITED — TASMANIA

## PERCUSSION DRILL LOG

AREA: **Hasties**HOLE No.: **22**LINE No.: **2**SURFACE R.L.: **198.79**BASEMENT R.L.: **151.79**DATE: **Feb'75** DRILLING CO.: **B.M.I. Mining** RIG No.: **1** DRILLER **P. Oliver** SAMPLE WASHER: **P. Oliver** OUR SUPERVISOR: **IWilliams** CASING **6-3/4"** SHOE DIA.

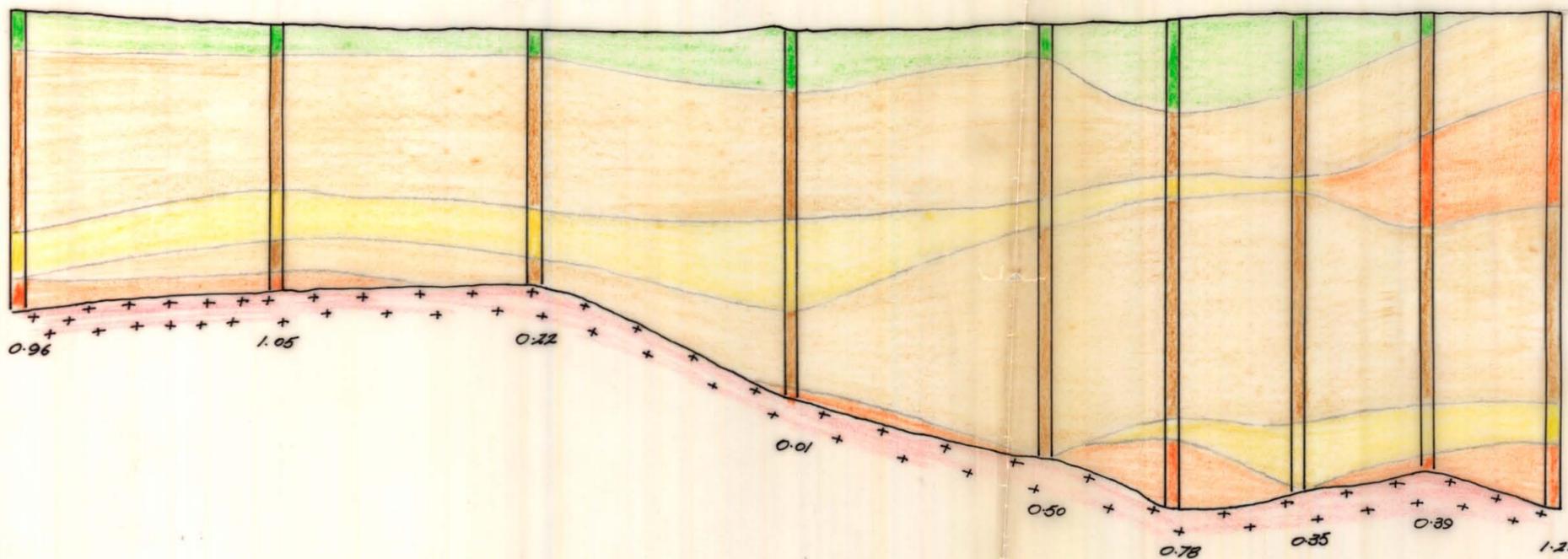
Section Feet		Sample Code No.	Recovered Volume cu. ft.	WEIGHT Sn.		Value over Interval		Colours of Gold	Description of Strata	Remarks
From	To			Recovered gms.	Corrected gms.	Sn. lb./cu. yd.	Cassiterite 70 % oz./cu. yd.			
Surface	5		0.20	0.00				0 - 6 Tailings		
5	10		0.55	0.00				6 -35		
10	15		0.52	0.00						
15	20		0.43	0.00				Coarse sand		
20	25		0.84	0.00						
25	30		0.74	0.00						
30	35		0.54	0.20						
35	40		0.67	0.60				35-42 Coarse sand with traces of wash		
40	45		1.02	6.70				42-47 Coarse sand and heavy wash up to 2"		
45	50		0.88	0.80				47 Decomposed granite		
50	52		0.23	0.00						

Driller's Reported Basement at **47** feet.Overall value from surface to **47** feet. { **0.96** oz./Cu. yd. (Cassiterite 70 % Sn).  
Assumed

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22 21 20 19 18 17 16 15 14

LINE 2

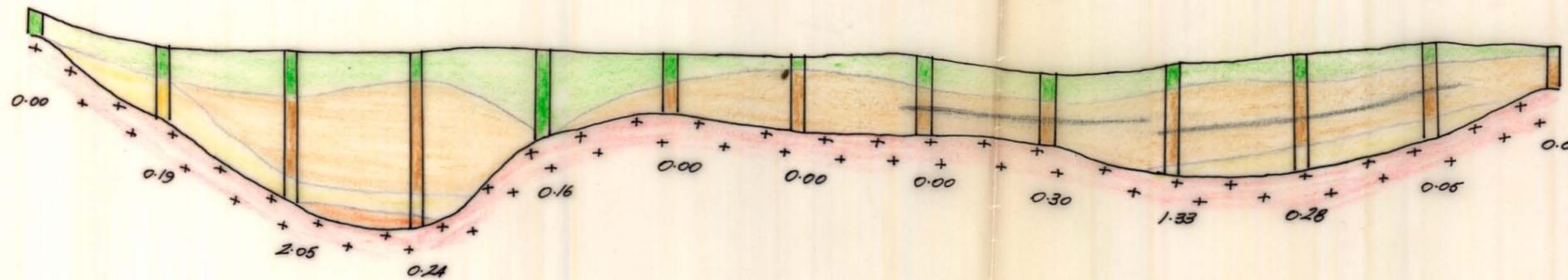


- TAILINGS + TOP SOIL
- D.RIFT
- SAND WITH TRACES OF WASH
- DRIFT WITH BANDS OF CLAY
- HEAVY WASH
- GRANITE

NOTE: - hole values are expressed in oz/cubic yard cassiterite assumed to be 70% Sn.

13 12 11 10 9 8 7 6 5 4 3 2 1

LINE 1



75-1077

B.M.I. MINING PTY. LTD.

HASTIES

CROSS SECTIONS

SCALES HOR. 30 feet to 1 inch  
VERT 20 feet to 1 inch

FEBRUARY, 1975

DRAWN I.H.WILLIAMS.

