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INTERNATIONAL MINING CORPORATION N.L.

REPORT

for the

PERIOD ENDING JUNE 30, 1970

EXPLORATION LICENCE 18/69-TASMANIA

UPPER FORTH RIVER AREA

MICROFILMED

E. Krajnc

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3125

SYNOPSIS

Exploration Licence 18/69 Tasmania, which is held by International Mining Corporation, comprises an area of 112 square miles south-east of Cradle Mount. The area includes the Upper Forth River wolfram prospects but excludes the 50 acre lease over the Mount Pelion Mine. These include McCoy's, Lone Pine, Birthday Granite and Big Blow lodes.

McCoy's and Lone Pine prospects were investigated without locating interesting signs of mineralisation, while examination of the Birthday Granite and Big Blow lodes showed that a program of mapping and bulk sampling is warranted on the former. Additional work will have to be carried out on the latter when weather permits.

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EXPLORATION LICENCE 18/69-TASMANIA

Over the period February and March, preliminary investigations were carried out and tracks dozed to and beyond a point, 8 miles north of the Mt. Pelion Mine at Sardine Creek where a camp was established. This consisted of two single-men's huts.

The deposits are located on the steep eastern slopes of the Forth River Valley seven and a half miles south-east of Cradle Mount.

Access is gained via Gowrie Park and a turn off to the left just before the Lemonthyme Power Station. Five miles of track to Gisborne hut is trafficable but beyond this it is very narrow and suitable for four wheel drive vehicles only. A bulldozer was engaged to improve this track over eleven or twelve miles and 15 bridges were constructed across streams.

An additional 8000 feet of track was constructed to the Big Blow lode, but flooded creeks and wet weather forced abandonment on the project temporarily.

VEGETATION AND RAINFALL

Most of the country below 3000 feet is covered with dense rain forest. Large eucalypts, white gums, peppermints and stringy-barks grow in profusion.

Denser, lower vegetation comprises musk, dogwood, wattle, myrtle, sassafras and celery-top pine. Above 3000 feet, the dense vegetation gives way to stands of King William pine and Cypress pine.

Annual rain fall is in the vicinity of 50 inches, falling between March and December and the number of rapidly flowing streams across Patons track makes access difficult. Heights range to above 5000 feet above sea level, and winter snows are common.

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HISTORY OF THE AREA

In 1892 copper was discovered at Mount Pelion and in 1898 another copper lode was found at Barn Bluff. Mining of copper ceased in 1903 when extraction became unprofitable. The first wolfram discovery was reported in 1916, during construction of the Pelion track and subsequently the Mt. Pelion Mining Co. N.L. worked several prospects until 1920, for small tonnages of ore.

Between 1944 and 1948, a syndicate of prospectors worked the wolfram lodes from small, shallow cuttings.

Since 1950, several prospectors and a number of Companies, including B.H.P. have prospected the area.

REGIONAL GEOLOGY

Reference to the accompanying geological plan shows all of the prospects to be confined to areas of mica schists and quartzites of Proterozoic age. The quartzite rocks tend to be the hosts for wolfram mineralisation which is confined to generally narrow quartz veins but occasionally reaching two feet in thickness.

Overlying the steeply-dipping, gently-folded Proterozoic sediments, are Permian tillites exhibiting a marked angular unconformity with the underlying older rocks, and having a gentle dip to the north-east.

The Proterozoic rocks are intruded by several small granite bosses as in the Birthday Granite and Lone Pine areas. These intrusions are Upper-Devonian, Lower Carboniferous in age and have been the vehicle of tin-tungsten mineralisation.

Above the eastern bank of the Forth River, Jurassic Dolerite overlies Proterozoic and Permian sediments and steep scree slopes have developed from the break aways.

MINERALISATION

This is confined to quartz-veins which vary in width from 1 inch to 2 feet, exhibiting no brecciation.

Wolframite occurs as bunches and coarse crystals, distributed evenly throughout the veins. Wolframite rich seams may occur near to vein walls and in the quartzite of the vein walls. There does not appear to be any concentration of wolframite into shoots.

Minor amounts of sulphides such as molybdenite, arsenopyrite, chalcopyrite, pyrite and bismuth are found in the Birthday Granite prospect.

Cassiterite is associated with the quartz-crystal linings of vughs.

DESCRIPTION OF THE PROSPECTS

1. McCoy's Wolfram Prospect

This is situated on Berridale Creek about one mile downstream from Field's hut on Berridale Plains.

The area is accessible from Liena, and is 12 miles south-south-west of Field's hut.

The Berridale Creek was traversed from Field's hut to the Forth River without locating mineralisation of any consequence.

The workings were reputed to have consisted of two shallow open-cuts on the footwall side of the vein. A few crystals of wolframite were reported from the three foot quartz vein, having little continuity in length.

2. Lone Pine Prospect

The Lone Pine prospect containing wolframite and cassiterite was discovered in 1916 near the junction of Forth River and Harnett Rivulet, during the cutting of Paton's track.

This prospect was described by Reid as consisting of four inch and eight inch veins containing wolframite and cassiterite.

The current geological and prospecting program failed to find any worthwhile mineralisation. Many barren quartz veins were located as was a little wolframite in surface fragments of quartz. Boulders of granite uphill suggests the presence of unmapped intrusions.

To the south of the prospect, no mineralisation was detected in quartz-veins surrounding the small plug of leucocratic granite.

3. Birthday Granite Prospect

This prospect is located on the eastern side of the Forth River about 1300 feet north-east of the Oakleigh Creek crossing and 1000 feet east of Paton's track.

Mineralisation is confined to small, thin quartz-veins (striking north-west, south-east and dipping north-east at about 75°) in Devonian granite.

The prospect consists of one large vein up to 15 inches wide, and can be traced for 300 feet horizontally. Minor, thin parallel veins occur. Wolframite occurs as bladed crystals up to $2\frac{1}{2}$ inches long, and may be accompanied by arsenopyrite, bismuthinite and minor amounts of molybdenite, cassiterite and chalcopyrite.

The granite exhibits greisenisation adjacent to the quartz veins and jointing parallels these.

Analyses of vein material from this area were as follows:

Sample BG. 2

Element	Quantity	Analytical Method	Laboratory
WO ₃	1.88%	A.A.	Griffith-Inteco
Bi	0.15%	"	
As	3.0%	"	
Cr	0.06%	"	
Cu	45 ppm	"	
Mo	30 ppm	"	
Co (5) *	15 ppm	Spectro-graphic semi-quantitative.	
Ni (5)	10 ppm		
Mn (10)	500 ppm	"	
Nb (20)	30 ppm	"	
Pb (1)	3 ppm	"	
Zn (20)	20 ppm	"	
Sn (1)	8 ppm	"	
Ag (0.1)	8 ppm	"	
Ga (1)	5 ppm	"	
Ge (1)	3 ppm	"	
P (100)	100 ppm	"	

* Bracketed figures denote lower limit of detection.

A second sample exhibiting visible molybdenite, assayed for bismuth and molybdenum gave the following results:

0.02% Bi 90 ppm Mo (semi-quantitative analysis).
Molybdenum is lower than was expected.

Sample locations are shown in figure 4.

4. Big Blow Lode Prospect

The prospect is situated about three-quarters of a mile south-west of the Mt. Pelion Wolfram Mine. A new track was cut from the mine to this prospect in an attempt to assess the area, and although old reports describe open cuts ten feet in width, the worsening weather conditions prevented further work in this area.

CONCLUSIONS

Preliminary assays of material from the Birthday Granite lodes indicate that a possibility of economic mineralisation exists.

Although bad weather hampered the preliminary examination of the Big Blow lodes, this area warrants examination during the coming summer months.

No mineralisation of any consequence was apparent in McCoy's and Lone Pine Prospects.



E. Krajnc

(July 9th, 1970)

RECOMMENDATIONS

It is recommended that the Birthday Granite prospect be mapped in detail, bulk-sampled and assayed for wolfram (tungsten), bismuth, molybdenum and tin.

It is also recommended that reconnaissance of the Big Blow lode be resumed as soon as weather conditions permit.

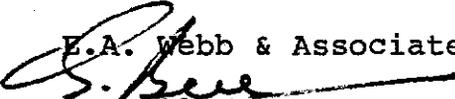
In order to protect these prospects it would be advisable to take out smaller licences, e.g. leases, covering the Birthday Granite and Big Blow prospects, and relinquish the remainder of the exploration licence area.



E. Krajnc

(July 9th, 1970)

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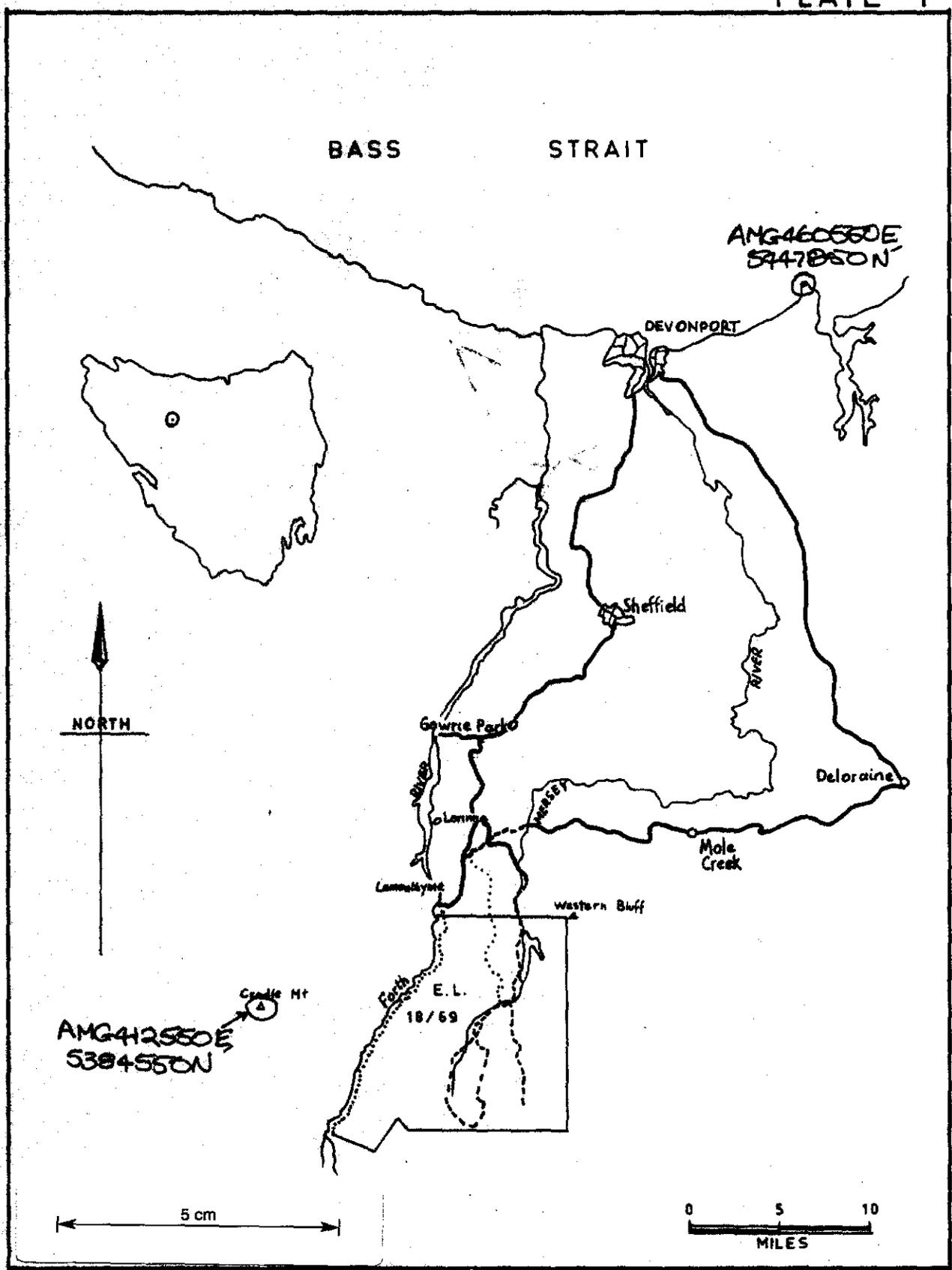


G. Bell

Managing Director

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Mineral District - Geol. Surv. Tas. 30



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 FOR INTERNATIONAL MINING CORPORATION N. L.
 LOCATION OF E.L. 18 / 69

LEGEND

- QUATERNARY**
- D. scree and B. talus
 - Till and alluvium
 - Talus, till and marsh deposits

- PERMIAN**
- Permian Groups

- Pre-cambrian**
- Quartzites and schists

IGNEOUS ROCKS

- TERTIARY Basalt
- JURASSIC Dolerite
- DEVONIAN? Granite

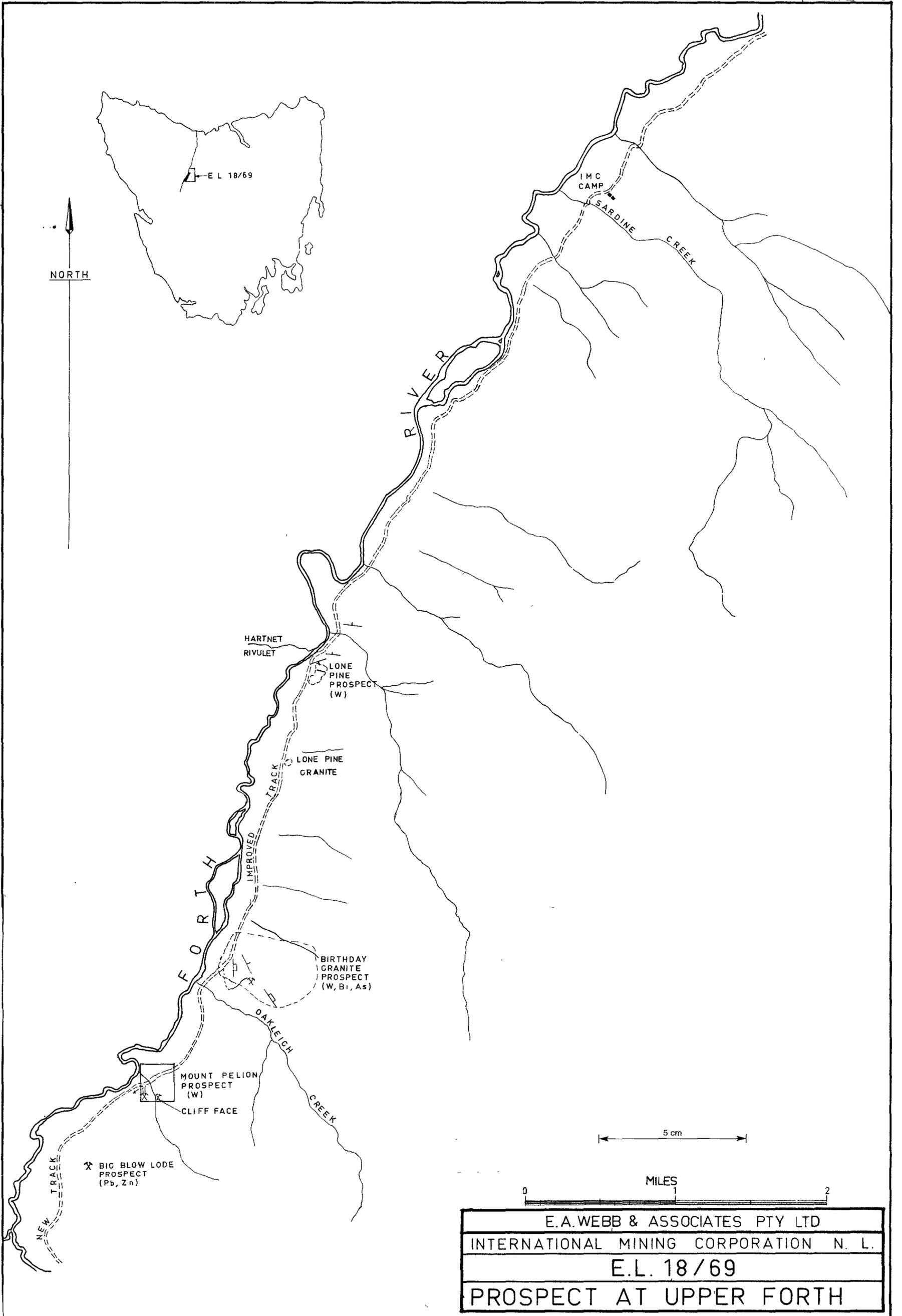
- GEOLOGICAL BOUNDARY
- UNCONFORMITY
- FAULT
- STRIKE & DIP
- PROSPECT



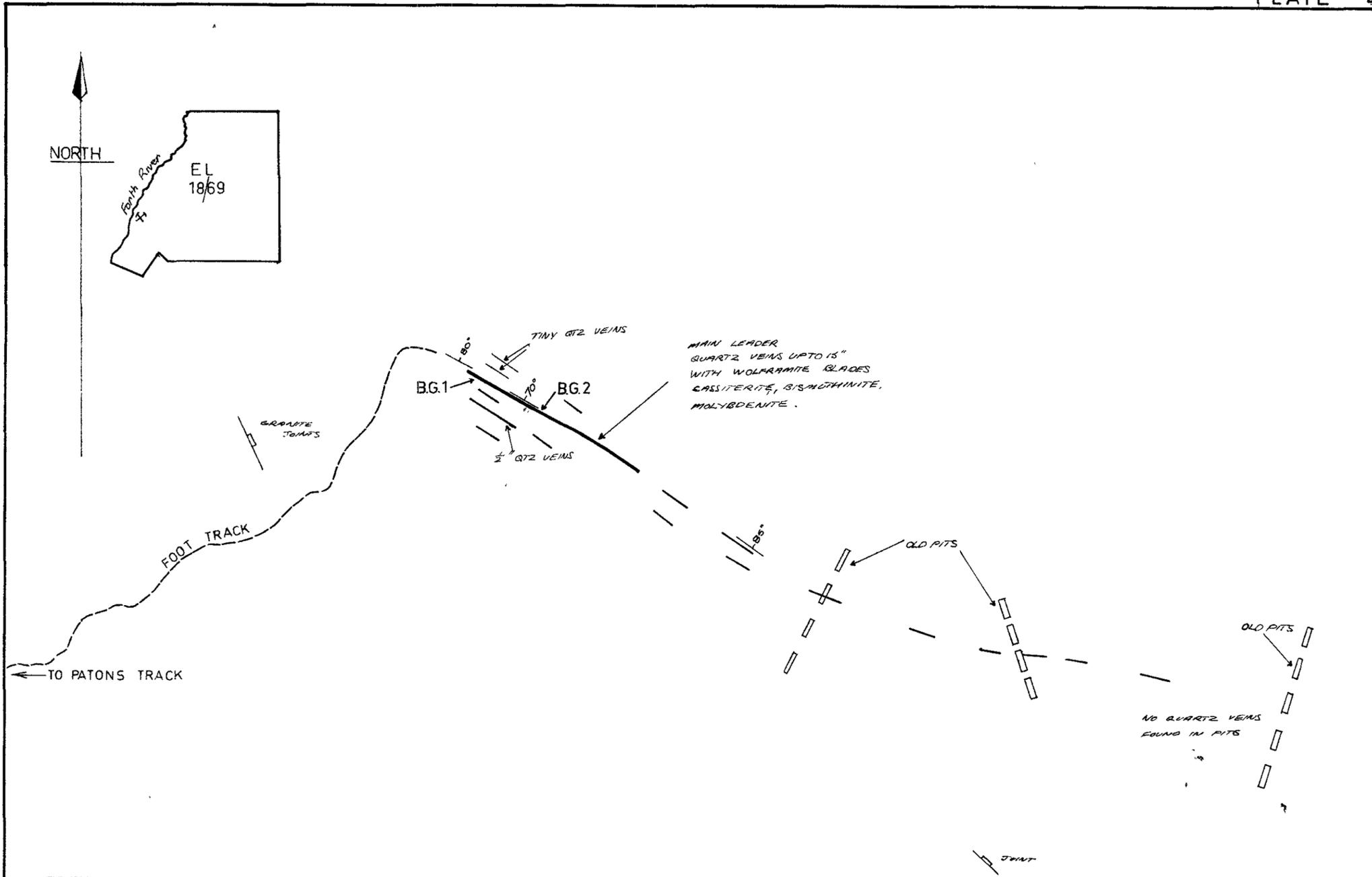
SCALE 1 MILE TO 1 INCH



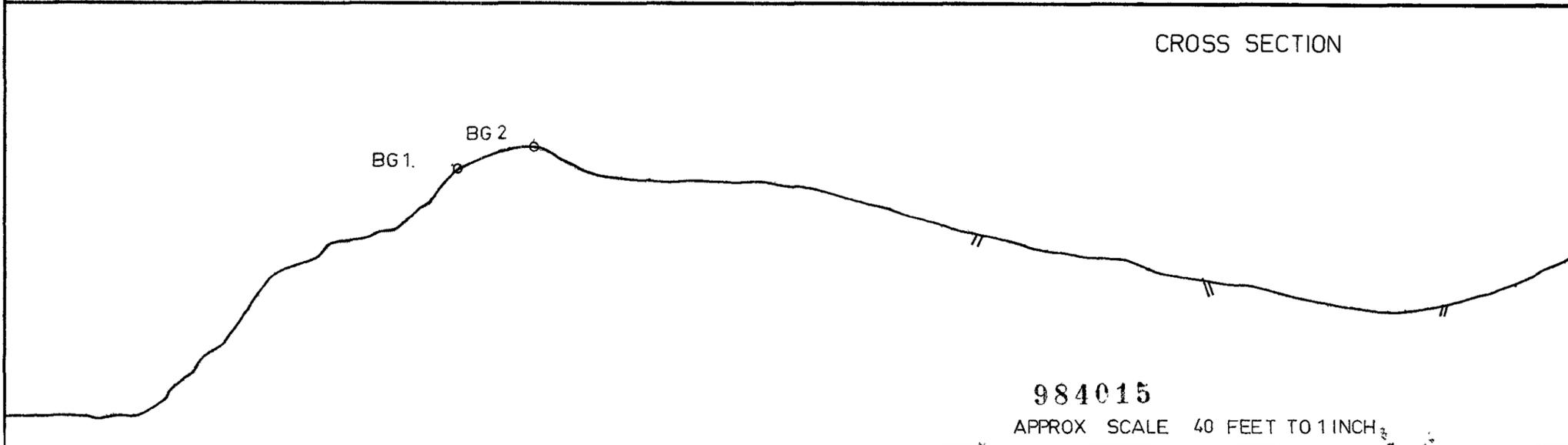
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 FOR INTERNATIONAL MINING CORPORATION N. L.
 GEOLOGICAL MAP OF E.L. 18/69



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INTERNATIONAL MINING CORPORATION N. L.
E.L. 18/69
PROSPECT AT UPPER FORTH



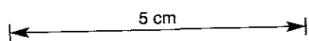
CROSS SECTION



984015

APPROX SCALE 40 FEET TO 1 INCH

GRAB SAMPLES:
BG1 & BG2



E A.WEBB & ASSOCIATES PTY. LTD.
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SKETCH PLAN & PROFILE FOR
BIRTHDAY GRANITE PROSPECT