

FINAL REPORT E.L. 11/77

MINERAL HOLDINGS AUSTRALIA PTY. LTD.

CONFIDENTIAL

MICROFILMED

85-2434

MINERAL HOLDINGS AUSTRALIA PTY. LIMITED.

INC. IN VIC.

CORRESPONDENCE TO:
2nd FLOOR,
100 COLLINS STREET,
MELBOURNE, AUSTRALIA, 3000
TELEPHONE: 83 7925
Telex: AA31317

DoM	A.O.	C.G.	E.O.	D.S.
				Register
D. DIR.	- 5 JUL 1985			E & IL
	DEPT. OF MINES			
REF. No.	6959/85			

3rd July 1985

The Director of Mines,
Department of Mines,
P.O. Box 56,
ROSNY PARK, 7018

Dear Sir,

FINAL REPORT - EXPLORATION LICENCE 11/77

Exploration Licence 11/77 was granted on 1st November 1977 and expired on 1st November 1984.

Regular reports have been submitted to the Department of Mines as follows :

6 monthly reports - 1.5.78 to 30.10.80

3 monthly reports - 1.11.80 - 30.10.80

These reports have fully documented the results of exploration within the exploration licence.

The exploration licence has been the subject of three separate joint ventures with :

Newmount P.L.,
Union Corporation (Australia) Ltd.,
Amax Australia Ltd.

Various other Companies have inspected the area, taken samples and perused previous reports.

The objective of exploration was to search for primary tin mineralisation in quartz greisen zones or in quartz stockworks. A favourable location for such mineralisation was thought to be on the contact of the upper devonian to lower carboniferous Mount Paris Mass and the sediments of the paleozoic Mathinna beds. Greisen zones are exposed within the granite at this contact, however, much of the potential area is covered by a relatively thin sheet of Mathinna beds.

The first phase of exploration carried out by Newmount included gridding, mapping, and sampling of such potential areas, followed by 1980 metres of percussion drilling. The results of this work were disappointing.

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FINAL REPORT EL 11/77 cont'd

The second phase of exploration, by Union Corporation, looked at the regional setting through stream sediment and soil sampling. Detailed work included further soil sampling and detailed mapping. The drilling of two deep percussion holes - 100 metres at Mt. Paris and 130 metres at Hill Top - and 4 diamond holes at Mt. Terror.

Only small scale mineralisation was revealed in this second phase of exploration.

The final phase of exploration was the excavation of two costeans at Rattler Hill by Amax. One of the costeans contained low grade tin mineralisation in quartz greisen zones over about 50 metres.

The three phases of exploration failed to find economic grades/volumes of tin mineralisation and the exploration licence was surrendered.

Yours faithfully,
MINERAL HOLDINGS AUSTRALIA PTY.LTD.



NEIL.M.THOMAS
CHAIRMAN.

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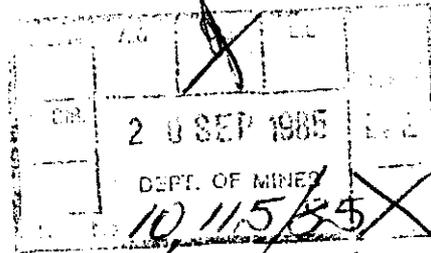
MINERAL HOLDINGS AUSTRALIA PTY. LIMITED.

INC. IN VIC.

CORRESPONDENCE TO:
2nd FLOOR,
100 COLLINS STREET,
MELBOURNE, AUSTRALIA. 3000
TELEPHONE: 63 7925
Telex: AA31317

18th September 1985

The Director of Mines,
Department of Mines,
P.O. Box 56,
ROSNY PARK, 7018



Dear Sir,

FINAL REPORT EL11/77

Further to your letter of the 24th July 1985 - Ref: Dr.P.L.F. Collins 3259 and your request.

We refer to the three points raised in this letter as follows :

1. Enclosed is the original AMAX AUSTRALIA report on the costeaning at Rattler Hill. Would you please copy this and return it to me within 7 days
TCA 85-2497 →
2. Enclosed is a copy of a memo and report by CRA at Rattler Hill
3. Enclosed is a copy of a letter from Goldfields Exploration Pty.Ltd., confirming that they do not have any report on their visit.

We have also contacted Noranda and they have no information on their visit either.

I trust that this information is sufficient for you to complete your reports.

Yours faithfully,
MINERAL HOLDINGS AUSTRALIA PTY.LTD.

NEIL.M.THOMAS
CHAIRMAN

003



CRA EXPLORATION PTY. LIMITED

(INC. IN N.S.W.)

LEVEL 4, BELLERIVE QUAY,
CAMBRIDGE ROAD, BELLERIVE, 7018, TASMANIA, AUSTRALIA

25th October, 1983.

P.O. BOX 138
BELLERIVE 7018
TELEGRAMS: CRAEX
TELEX: AA57144
TELEPHONE: 44 3533
AREA CODE: (002)

IN REPLY PLEASE QUOTE

Mr. N. Thomas
Mineral Holdings Australia P/L.
2nd Floor,
100 Collins Street,
MELBOURNE. 3000

Dear Neil,

EL 11/77 and Rattler Lode

I have attached a few brief notes on our recent sampling of the costeans in ML 77M/77. The material is interesting but the deposit is small and erratic and although high grade patches do occur, the overall grade is low.

The deposit is not a CRA type of target and we would not be in a position to participate in any joint venture deal over EL 11/77. However, I would like to thank you for the opportunity to examine the two costeans.

Yours faithfully,

A handwritten signature in cursive script, appearing to read 'T.W. Dickson'.

T.W. DICKSON
District Manager

encl.



CRA EXPLORATION PTY. LIMITED

(INC. IN N.S.W.)

LEVEL 4, BELLERIVE QUAY,
CAMBRIDGE ROAD, BELLERIVE, 7018, TASMANIA, AUSTRALIAP.O. BOX 138
BELLERIVE 7018
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TELEX: AA57144
TELEPHONE: 44 3533
AREA CODE: (002)

IN REPLY PLEASE QUOTE

6th September, 1983.

Memorandum To : T. W. Dickson

From : G. B. Weber

APPRAISAL OF EL 11/77 BY INSPECTING AND SAMPLING OF
COSTEANS ON ML 77m/77
RATTLER LODEIntroduction

Neil Thomas approached CRA Exploration P/L to inspect recent costeans within a 52 hectare Mineral Lease (Rattler Lode) within Mineral Holdings licence area EL 11/77. A day trip was organised to inspect these workings and the surrounding area. The licence area had previously been appraised in 1977 by J.G. Purvis CRA Exploration Rept. No. 9081.

Geology

The Paris pluton is generally a pink to yellow-brown even grained muscovite-biotite granite. It is usually even grained although finer grained patches do occur, especially adjacent to the Mathinna beds on the southern portion of the granite mass. Contacts with the Mathinna beds are sharp, xenoliths are rare. The Rattler Lode area is in an even grained phase of the granite (ie) on the southern area of the Paris Mass. Numerous greisen bodies occur on the southern sector of the granite. The greisen zones generally occur as thin linear

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zones (0.1 - 3m) but larger irregular pods exist (eg. Rattler area refer figure 1). The greisen zones are medium grained rocks composed almost entirely of quartz and muscovite with accessory topaz, fluorite, cassiterite, wolframite and sulphides - chalcopyrite, arsenopyrite, pyrrhotite, pyrite, sphalerite (Bulletin 55). Joint surfaces are coated with coarse crystalline cassiterite and some greisen zones have been worked for tin. Major jointing in the granite controls the direction of the greisen veins. The now desolate Paris granite has been almost completely sliced for low grade alluvial cassiterite deposits and the majority of large rocks studded over the surface are residual lumps of greisen.

Sampling

The Mineral Licence area was located 77m/77 of 52 hectares. Two bulldozed costeans were found and a sketch map was made of the costeans refer figure 2. From an examination of the surrounding area it is believed the costeans are totally in the Mineral lease although they are close to the south-east corner of the M.L.

Seven greisen samples were collected.

First trench - first 78m granite minor thin greisen zones. 78 - 85m strong greisen, 92m a 1.5m greisen zone and 97 to 101.5m greisen. Sample 972160 collected from this zone - background sample did not observe any mineralisation.

101.5 - 114.5m 20% greisen rest granite. 972162 collected in a greisen zone the sample contained quartz selvage containing cassiterite.

114.5 - 133m greisen. 972161 collected at 115m. The sample was greisen with very fine grained cassiterite in a zone through the greisen.

133 - 165m granite.

Second trench - much more granite occasional greisen lodes. 972164 from 42m greisen occasional tin crystals?

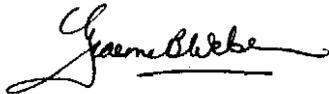
At 53 metres high grade tin sample 972166 - zone only 15cm wide and 972165 no visible cassiterite but assays show that this greisen zone is clearly mineralised. Very few greisen zones after this to end of bulldozed trench.

Recommendations & Conclusions

- (1) The costeaning within ML 77m/77 indicates that the greisen zones are patchy but are highly anomalous in tin.
- (2) A greisen target would probably not fit the parameters of size, tonnage and grade for CRA Exploration Pty. Ltd.
- (3) The granites in the Rattler Lode area do not appear to extensively altered thereby offering a different tin target.
- (4) The Conclusions as reached by J.G. Purvis (CRAE Rept. No. 9081) should be re-examined for the Star of Peace area but the main workings are held under Mineral Leases.
- (5) The Mathinna Beds / Paris granite junction as suggested by J.G. Purvis could also be tin target.
- (6) It is not recommended that the J.V. on Mineral Holdings licence area EL 11/77.

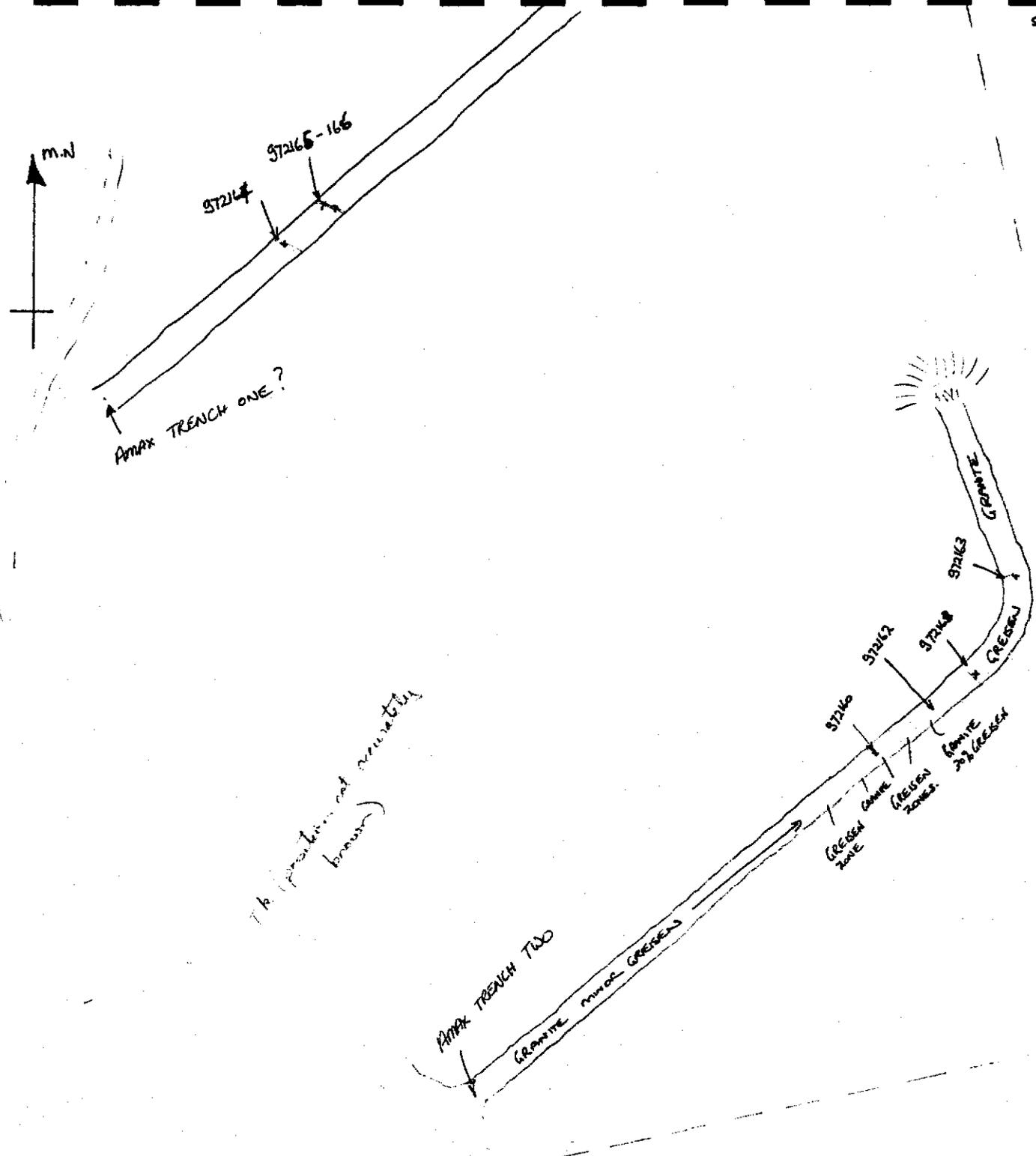
P.S. Some exploration has been carried out in the western portion of the licence area perhaps we could review that work.

The trenches have been well trampled - I think he has really passed this area around.



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SAMPLE No	Cu	Pb	Zn	As	Fe	Mo	Bi	W	Sr
972160	55	10	165	1.0	175%	x	10	x	645
972161	165	50	130	85	120%	10	50	x	4750
972162	35	15	115	1.5	135%	x	20	13	130%
972163	95	15	120	1.0	9600	x	20	10	2510
972164	20	15	110	0.5	1152	x	30	x	5430
972165	55	20	120	1.0	155%	x	20	12	4300
972166	40	30	115	1.0	158%	x	50	43	143%



RATTLER LODGE
SE. CORNER ml 77m/77.

ml 77m/77 Bdy.
(not accurately known)

5 cm

Scale
1 cm = 10 meters
@ 1:1000

FIGURE 2.

138009



GOLD FIELDS EXPLORATION PTY. LIMITED

(Incorporated in N.S.W.)

Division of Renison Goldfields Consolidated Limited

HEAD OFFICE:
GOLD FIELDS HOUSE,
SYDNEY COVE, SYDNEY,
N.S.W. 2000.

TELEPHONE: 2 0512
TELEX: AA20373

TASMANIAN OFFICE
53 MAIN ROAD
WIVENHOE
BURNIE 7320

Telephone (004) 31 7711
Telex GFEL AA 59301

Address all correspondence to
P.O. Box 835
BURNIE 7320
TASMANIA

LAN/9001

6th September, 1985.

Mr. N. Thomas,
Mineral Holdings Australia Pty. Limited,
2nd Floor,
100 Collins Street,
Melbourne,
Victoria, 3000.

Dear Neil,

EL11/77 - Rattler Property

We have searched our files and memories and none of us has any recall of either having visited the Rattler costeans or having written a report on the property.

Sorry about that.

Yours sincerely,

L.A. Newnham
Exploration Manager

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(18)

MINERAL HOLDINGS AUSTRALIA PTY. LIMITED.

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CORRESPONDENCE TO:
2nd FLOOR,
100 COLLINS STREET,
MELBOURNE, AUSTRALIA, 3000
TELEPHONE: 63 7925
Telex: AA31317

9th October 1985

The Director of Mines,
Department of Mines,
P.O. Box 56,
ROSNY PARK, 7018

DD.M.	A.O.	16	E.C.
D. DIR.		11 OCT 1985	
		DEPT. OF MINES	
11, 019/85		P.C	

Dear Sirs,

EL11/77

Further to your letter of the 26th September 1985 and the two subjects referred to therein. We now appreciate your view on copying our Amax report, in view of the work and inconvenience to you we do not now require a copy to be returned to us.

Regarding the Amax supplementary report done by Amax on ML77M/77, we advise that this lease was held by another party and not part of our joint venture with Amax, and as such, the reports were retained by Amax and probably given to the owner of ML77M/77 (see attached).

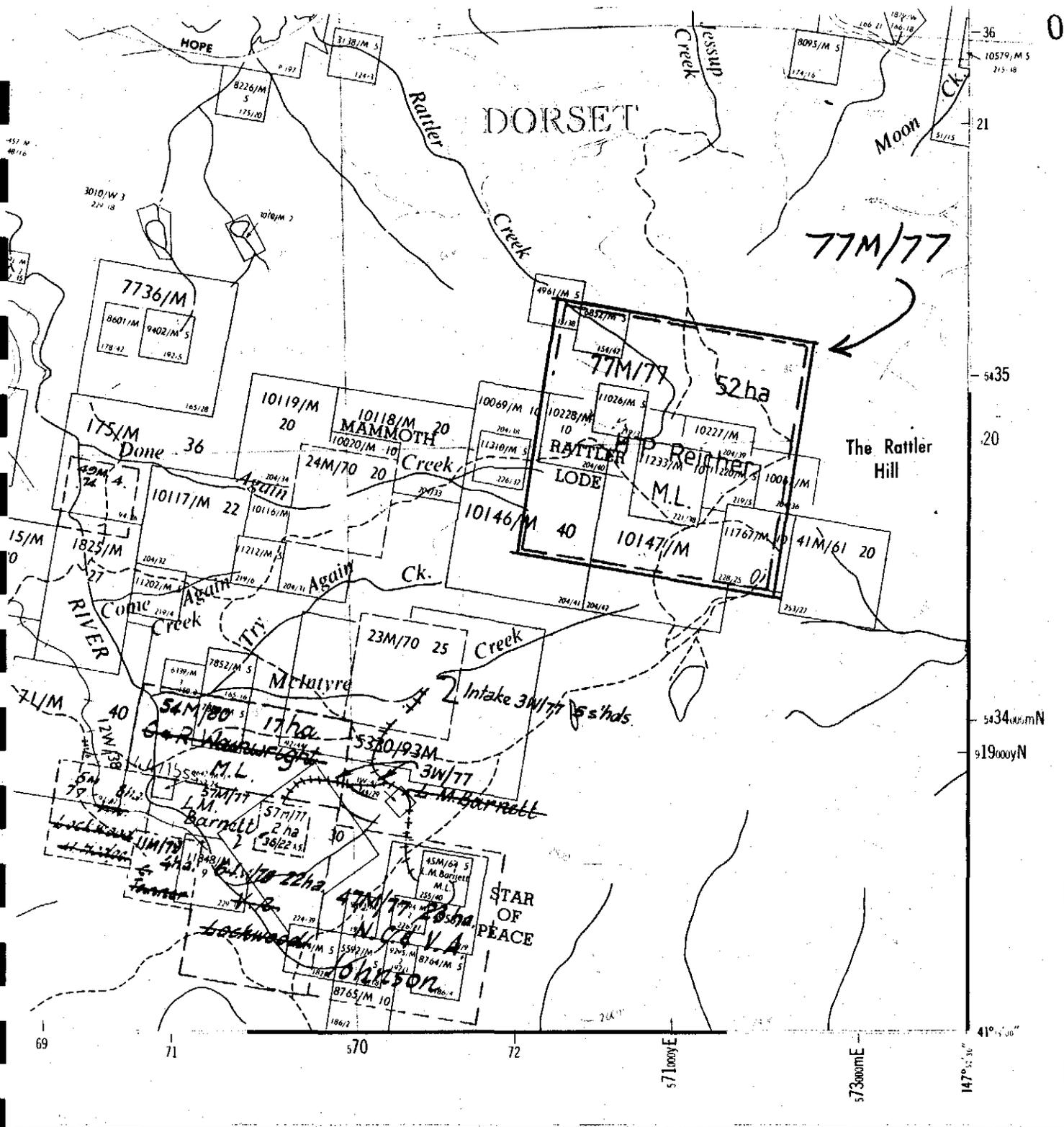
We do not have a copy and believe the report remained confidential to the owner of the lease.

Yours faithfully,
MINERAL HOLDINGS AUSTRALIA PTY.LTD.



NEIL.M.THOMAS
CHAIRMAN

c.c. Mineral Leases Mineral Chart - Derby 1 South.



Magnetic Variation from True North for the centre of this sheet approximately 13°15'E 1972

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138012



MINES DRAFTING ROOM
 Up to date as at
28 9 84
 for Mining Information only



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