



HELLYER MINING & EXPLORATION PTY. LTD.

39 Grenfell Street. Adelaide 5000
P.O. Box 2319, Adelaide 5000

Tel(08)2185111

Telegraphic Address 'SANTOS' Adelaide
Telex No AA 82716

MEMO TO: Operations Director Date 5.2.82
HM 05/82
FROM: Chief Geologist (Minerals) File: HZ 1.01
SUBJECT: EXPLORATION REPORT - JANUARY 1982

A. Great Northern Plain E.L. 19/77 (Hellyer 90%)

Churn drilling resumed on 11/1/82 and 5 holes have been completed in the Bowers Lagoon area.

A contract for bulk sample drilling has been let and this work is expected to commence in the second week of February. Arrangements for treatment of drilling and bulk samples have been made. Accommodation for Santos' full-time technical assistant is being sought.

Surveying of previous and proposed drill holes is under way and should be completed in early February.

Mining consultant Mr. K. D. Connell from Thailand will be on-site in February to inspect bulk sampling and sample treatment operations and to assess the condition of the Dorset Dredge.

B. MacGregors CML 42M/76 (Hellyer 90%)

No field work was undertaken.

C. Fly-By-Night Mineral Leases (Hellyer 100% R. Lawry 1.25% ORRI)

No work was undertaken.

D. Mt. Stronach S.P.L. 772 (Hellyer 100% B. Farquhar 1.25% ORRI)

No work was undertaken.

E. Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% interest)

Results of seismic and echo sounding traverses were reviewed and drill sites were chosen. Effort to secure the services of an experienced offshore mineral driller continued.

F. Anchor Mine EL 9/76 (Hellyer 38% interest)

Results of contract geological mapping and sampling were received by operator.

G. Braithwaites (Formerly SR 32/70)

The Tasmanian Department of Mines has advised that Santos' tender for this area has been accepted and that the Company will be offered the opportunity to acquire Exploration Licence title when the existing reserve has been lifted. Exploration on this Licence will be carried out in conjunction with exploration adjacent EL 19/77.

D. B. Clarke

DBC:iw

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



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Telegraphic Address 'SANTOS' Adelaide
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MEMO TO: Operations Director Date 6.1.82
FROM: Chief Geologist (Minerals) HMO3A/82
SUBJECT: EXPLORATION REPORT - DECEMBER 1981 File: HZ 1.01

(A) Great Northern Plain E.L. 19/77 (Hellyer 90%)

Churn drilling continued to outline mineralisation in the Bowler's Lagoon deposit. Preliminary development investigations with respect to Metallurgy, Environment and Engineering were continued.

(B) MacGregors CML 42M/76 (Hellyer 90%)

No field work was undertaken.

(C) Fly-By-Night Mineral Leases (Hellyer 100% option R. Lawry 1.25% ORRI)

No work was undertaken.

(D) Mt. Stronach S.P.L. 772 (Hellyer 100% interest B. Farguhar 1.25% ORRI)

No work was undertaken.

(E) Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% interest)

180 line kms of Offshore Geophysical Surveying was completed. This encompassed Sparker Seismic, Echo Sounding and Magnetometer surveying. The results of this work are being collated.

(F) Anchor Mine EL 9/76 (Hellyer 38% interest)

Geological, geochemical and drilling data continued to be assessed.

D. B. Clarke

DBC:iw

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



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Telegraphic Address 'SANTOS' Adelaide
Telex No AA 82716

MEMO TO: Operations Director Date 7.12.81
FROM: Chief Geologist (Minerals) HM 127/81
SUBJECT: EXPLORATION REPORT - NOVEMBER 1981 File: HZ 1.01

A. Great Northern Plain E.L. 19/77 (Hellyer 90%)

Churn drilling continued to outline mineralisation in the Bowler's Lagoon deposit. Preliminary development investigations were begun with respect to Metallurgy, Environment and Engineering.

B. MacGregors CML 42M/76 (Hellyer 90%)

Preliminary development investigations were begun. No field work was undertaken.

C. Fly-By-Night Mineral Leases (Hellyer 100% option R. Lawry 1.25% ORRI)

The results of one of the two diamond drill holes were received. On two metre intersection assaying 0.89% tin was resolved. Further assays are awaited.

D. Mt. Stronach S.P.L. 772 (Hellyer 100% interest B. Farquhar 1.25% ORRI)

No work was undertaken.

E. Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% interest)

Preparations for seismic were finalized. Investigations of drilling method and contractors continued. Seismic working will begin in December.

D. B. Clarke

DBC:iw

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



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39 Grenfell Street, Adelaide 5000
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Telegraphic Address 'SANTOS' Adelaide
Telex No AA 82716

MEMO TO: Operations Director Date 4.11.81
HM 126/81
FROM: Chief Geologist (Minerals) File: HZ 1.01
SUBJECT: EXPLORATION REPORT - OCTOBER 1981

A. Great Northern Plain E.L. 19/77 (Hellyer 90%)

Four churn drill holes totalling 128.0m were completed, two in the Mayfield Flat area and two in the Bowler's Lagoon area. The holes in the Bowler's Lagoon area provided intersections of the northerly extension of previously outlined tin mineralization. The Mayfield Flat drilling indicates that the northwesterly extension of the Scoloch Lead is not an important exploration target.

B. Fly-By-Night Mineral Leases (Hellyer 100% option R. Lawry 1.25% ORRI)

Two inclined diamond drill holes were completed for a total of 150.5 metres. The holes intersected altered granite, greisen and quartz veins and homfelsed sediments. Samples have been submitted for assay for Sn, Au, Ag, W, Mo and Ta.

C. Mt. Stronach S.P.L. 772 (Hellyer 100% interest, B. Farquhar 1.25% ORRI)

Evaluation of previous mapping and soil sampling results was completed and a single diamond drill hole of T.D. 100m was drilled. The hole intersected only very slightly altered granite with no significant visual molybdenum mineralization.

D. Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% interest)

Selection of a suitable off-shore positioning system and drilling rig for the proposed reverse circulation drilling programme is in the final stages.

D. B. Clarke

DBC:iw

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



HELLYER MINING & EXPLORATION PTY. LTD.

183 Melbourne Street, North Adelaide 5006 Tel (08) 7675000
P.O. Box 171, North Adelaide 5008

Telegraphic address 'SANTOS' Adelaide
Telex No AAB2716

MEMO TO:J. D. Armstrong..... Date 2.11.81.....
FROM:D. B. Clarke..... HM 104/81 File: HZ 1.01
SUBJECT:EXPLORATION REPORT, SEPTEMBER, 1981.....

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38%)

Regional soil geochemical sampling and geological mapping was completed. Compilation and interpretation of drilling results at the sites of the Anchor and Moon Mines continued.

(ii) Great Northern Plains E.L. 19/77 (Hellyer 90%)

Churn drilling continued near the mouth of the Ringarooma River area and further moderate grade tin mineralization was recovered from the drill returns. Assay results from several holes were returned with a best result of 26m of 0.38 lbs Sn/cu.yd.

(iii) Fly-By-Night/Lawry Option (Hellyer 100% option)
(R. Lawry 1.25% O.R.R.I.)

The Fly-By-Night Mine was geologically mapped and sampled. The samples were assayed for tin and other metals, with a highest result of 1% tin. Sites for two 75m diamond drill holes were chosen.

(iv) Gladstone Mineral Lease Applications (SANTOS 100%)

The applications remain under consideration by the Tasmanian Department of Mines.

(v) Mount Stronach S.P.L. 772 (Hellyer 100% interest)
(B. Farquhar 1.25% Q.R.R.I.)

Mount Stronach was geologically mapped and sampled and the samples were submitted for assay. Traces of molybdenite mineralization were noted in several localities.

(vi) Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% Interest)

The results of previous drilling were reviewed and a programme of further reverse circulation drilling was designed.

D. B. Clarke

DBC:gj

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



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123 Melbourne Street, North Adelaide 5006
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Telex No AA87716

MEMO TO: J. D. Armstrong Date 2.11.81
FROM: D. B. Clarke HM 103/81 File: HZ 1.01
SUBJECT: EXPLORATION REPORT, AUGUST 1981

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38%)

Regional soil geochemical sampling and geological mapping was completed. Compilation and interpretation of drilling results at the sites of the Anchor and Moon Mines continued.

(ii) Great Northern Plains E.L. 19/77 (Hellyer 90%)

Churn drilling totalling approximately 140m was completed in the Foster's Marsh area and further moderate grade tin mineralization was recovered from the drill returns. One hole was bulk-sampled to provide more accurate grade data.

(iii) Fly-By-Night/Lawry Option (Hellyer 100% option)
(R. Lawry 1.25% O.R.R.I.)

No work was undertaken during the month.

(iv) Gladstone Mineral Lease Applications (SANTOS 100%)

Two additional Mineral Leases have been pegged and applications made to the Department of Mines.

(v) Mount Stronach S.P.L. 772 (Hellyer 100% interest)
(B. Farguhar 1.25% O.R.R.I.)

No work was undertaken during the month.

(vi) Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% Interest)

Additional data from previous drilling in the Licence area has been obtained and quotations for offshore positioning systems have been assessed.

D. B. Clarke

DBC:gj

CC: M. G. Roberts
R. Thomas
D. Partington
Sir William Pettingell



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Telex No AA87716

HM 070/81 File: HZ 1.01

MEMO TO:J...D...Armstrong..... Date 13 Aug 1981.....

FROM:D. B. Clarke.....

SUBJECT:EXPLORATION REPORT, JULY 1981.....

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38%)

Regional soil geochemical sampling and geological mapping was completed. Compilation and interpretation of drilling results at the sites of the Anchor and Moon Mines continued.

(ii) Great Northern Plains E.L. 19/77 (Hellyer 90%)

Churn drilling continued in the Foster's Marsh area and further moderate grade tin mineralization was recovered from the drill returns.

(iii) Lawry Option (Hellyer 100% option)
(R. Lawry 1.25% O.R.R.I.)

No work was undertaken during the month.

(iv) Gladstone Mineral Lease Applications (SANTOS 100%)

No work was undertaken during the month.

(v) Mount Stronach SPL 772 (Hellyer 100% interest)
(B. Farquhar 1.25% O.R.R.I.)

No work was undertaken during the month.

(vi) Ringarooma Bay E.L. 42/80 (Hellyer Right to 75% Interest)

Hellyer has exercised its option to have the right to a 75% interest in the block. No work was undertaken during the month.

DBC:gj

CC: Mr. M. G. Roberts
Mr. R. Thomas
Mr. D. Partington
Sir William Pettingell

*NO maps
this month
JA*



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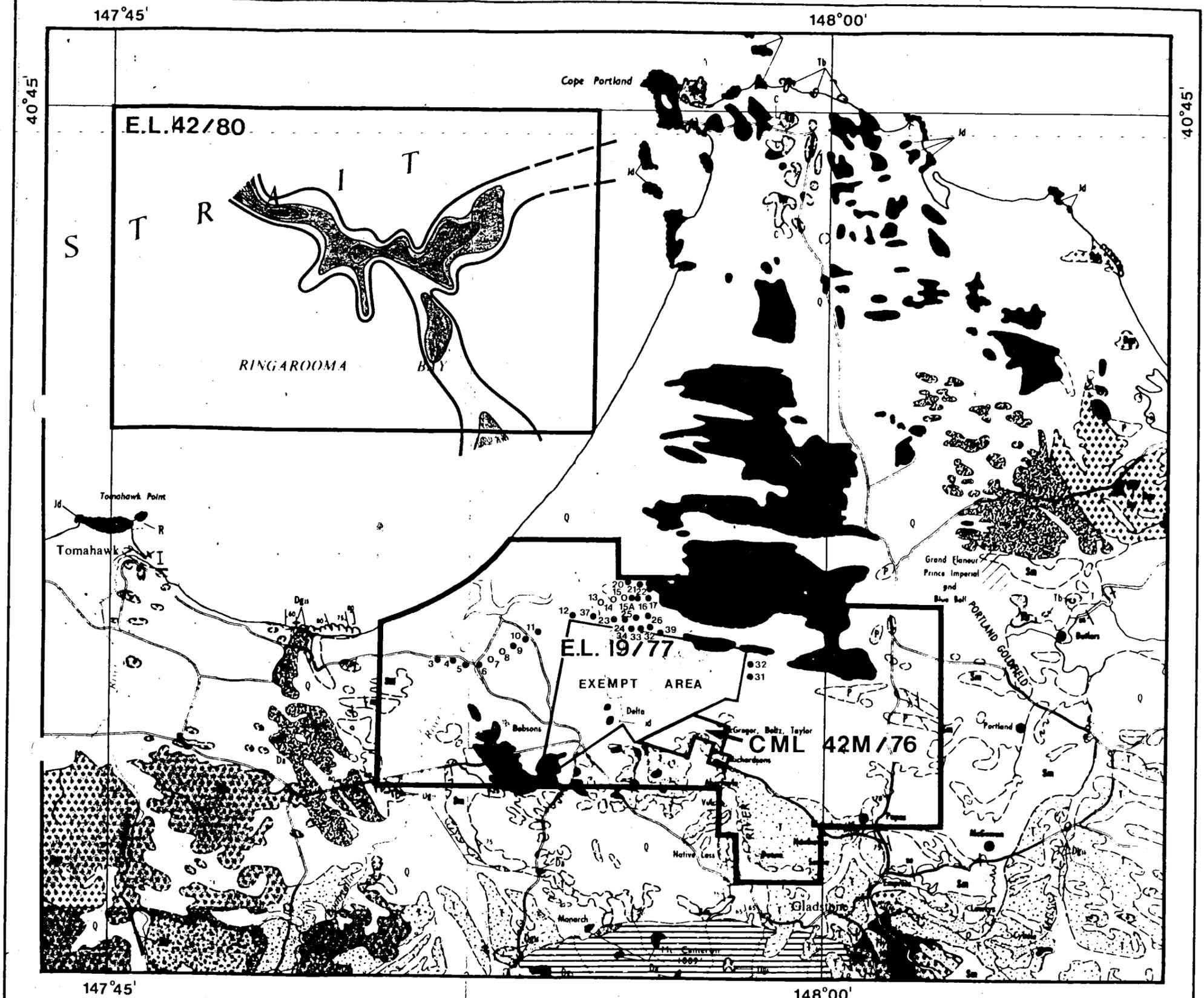
Telex No AA 87716

MEMO TO: J. D. ARMSTRONG HM 062/81
FROM: D. B. CLARKE FILE: HZ 1.01
DATE: 11 AUGUST, 1981 CC: M. G. Roberts
R. Thomas
RE: EXPLORATION REPORT, JUNE 1981 D. Partington
Sir William Pettingell

Tasmania

- (i) Blue Tier E.L. 9/76 (Hellyer 38%)
Drilling of the Anchor Mine was completed. Data compilation and interpretation was begun.
- (ii) Great Northern Plains E.L. 19/77 (Hellyer 90%)
Churn drilling continued in the Foster's March area throughout the month, and further low to moderate grade tin mineralization was recovered from the drilling returns.
- (iii) Lawry Option Areas
No work was carried out on these areas during the month.
- (iv) Mt. Stronach SPL 772 (Hellyer 100% interest; B. Farquhar 1.25% O.R.R.I.)
No work was carried out during the month.

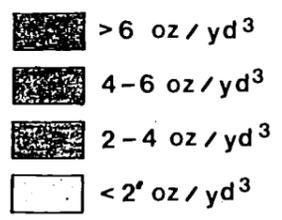
DBC:gj



LEGEND

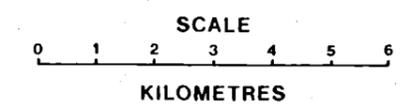
- Drilling Completed
- Drilling Planned

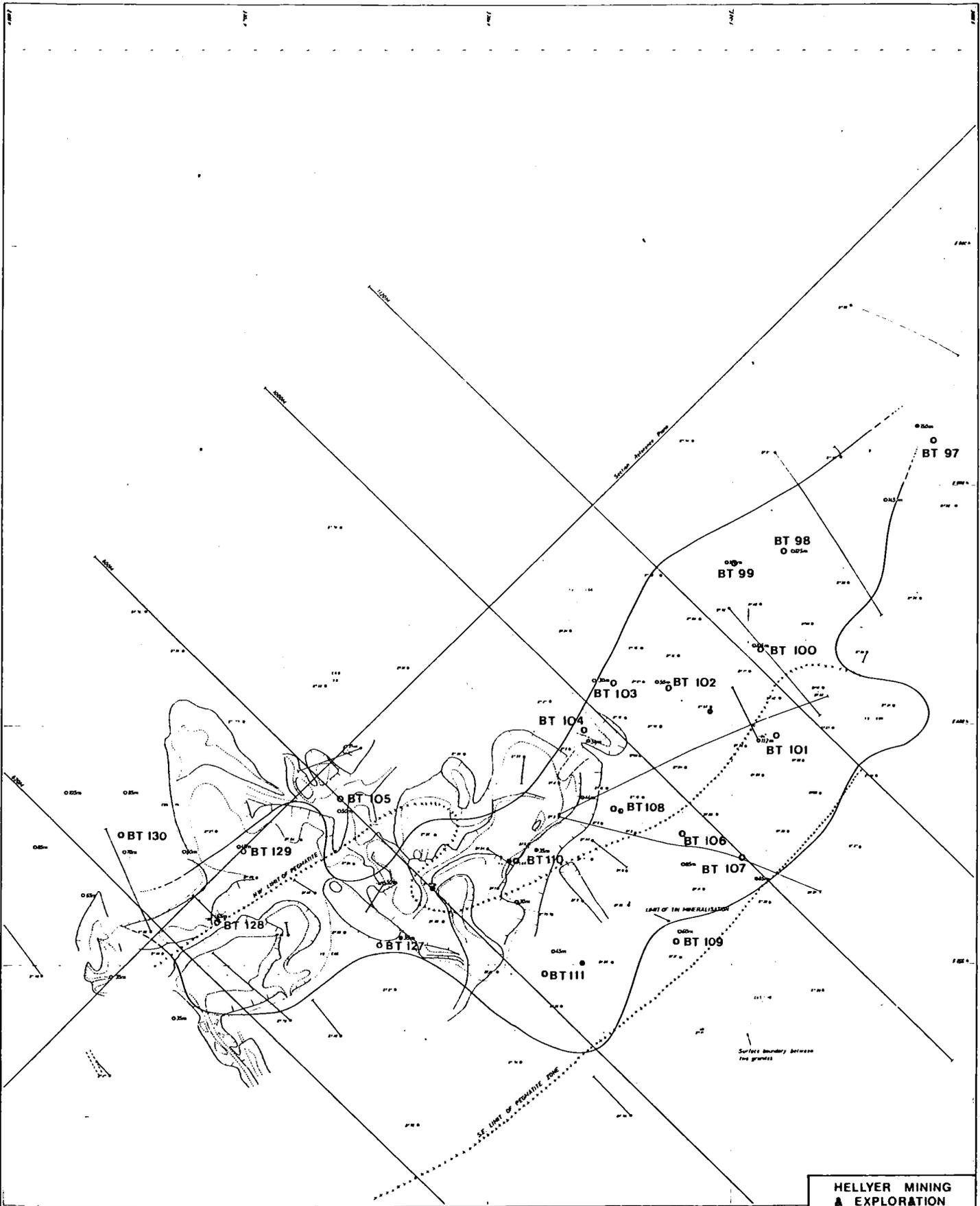
Tin Isograds (oz/yd³)



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**NORTH EAST TASMANIA
E.L.19/77, C.M.L.42M/76 & E.L.42/80
LOCALITY MAP**

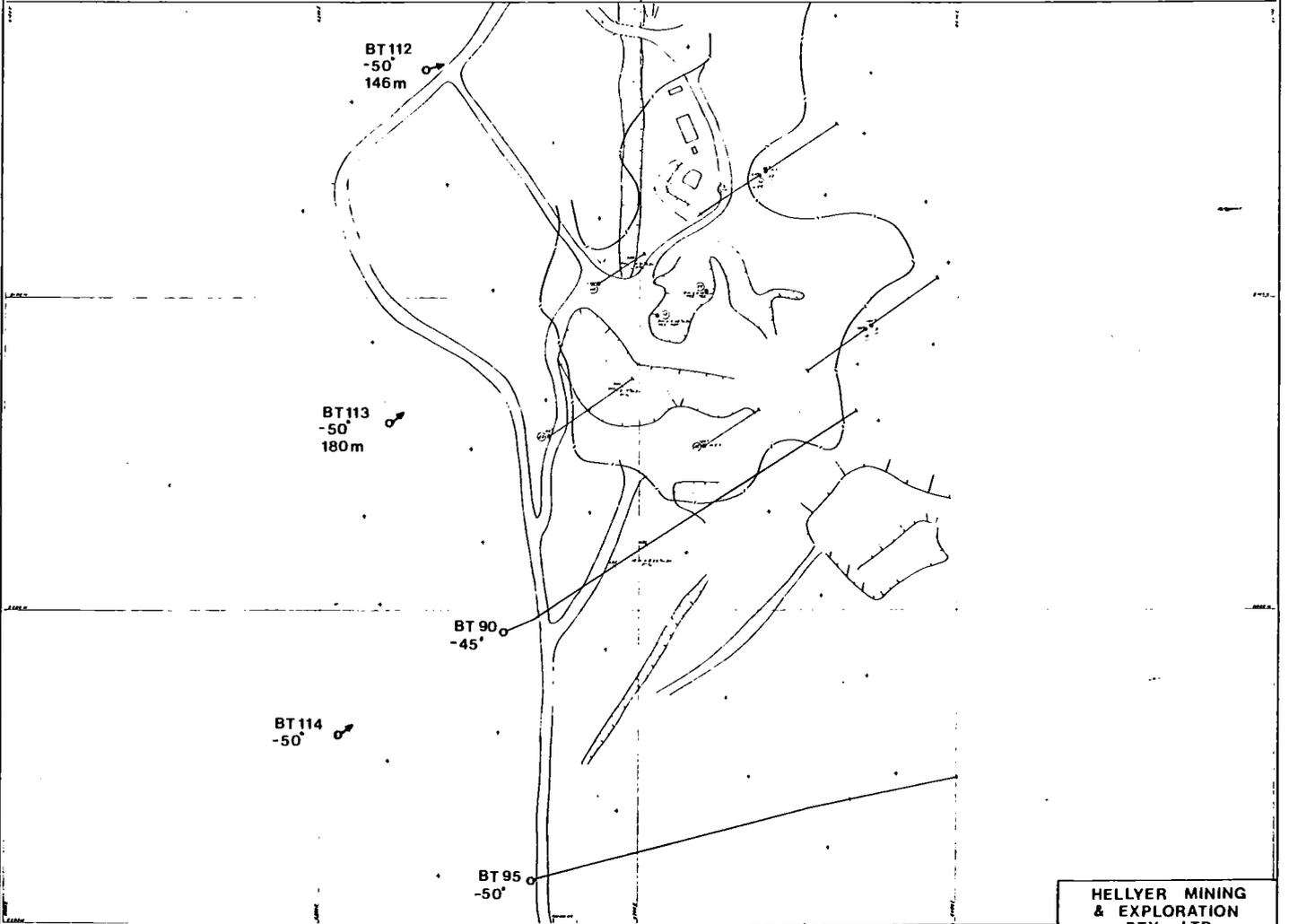
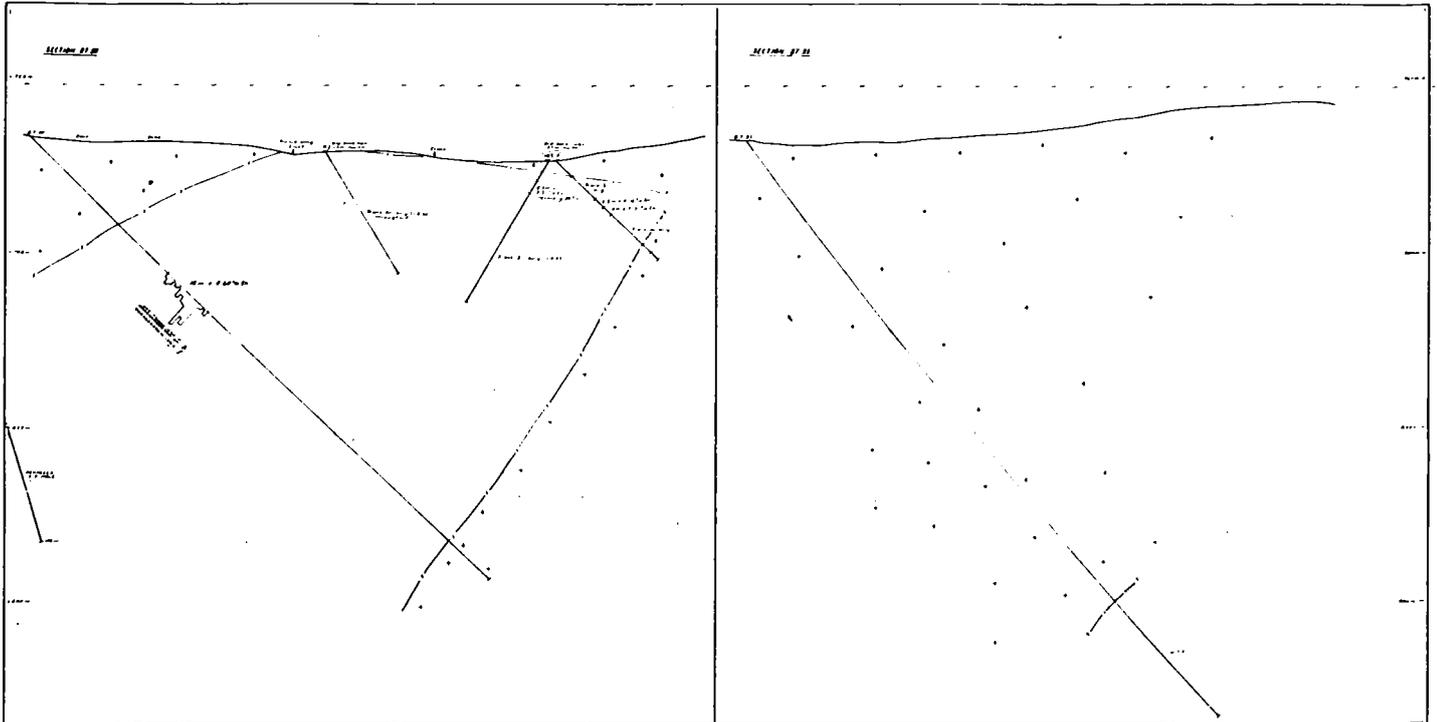




○ BULK SAMPLE SITE
 ○ PROPOSED DD HOLE



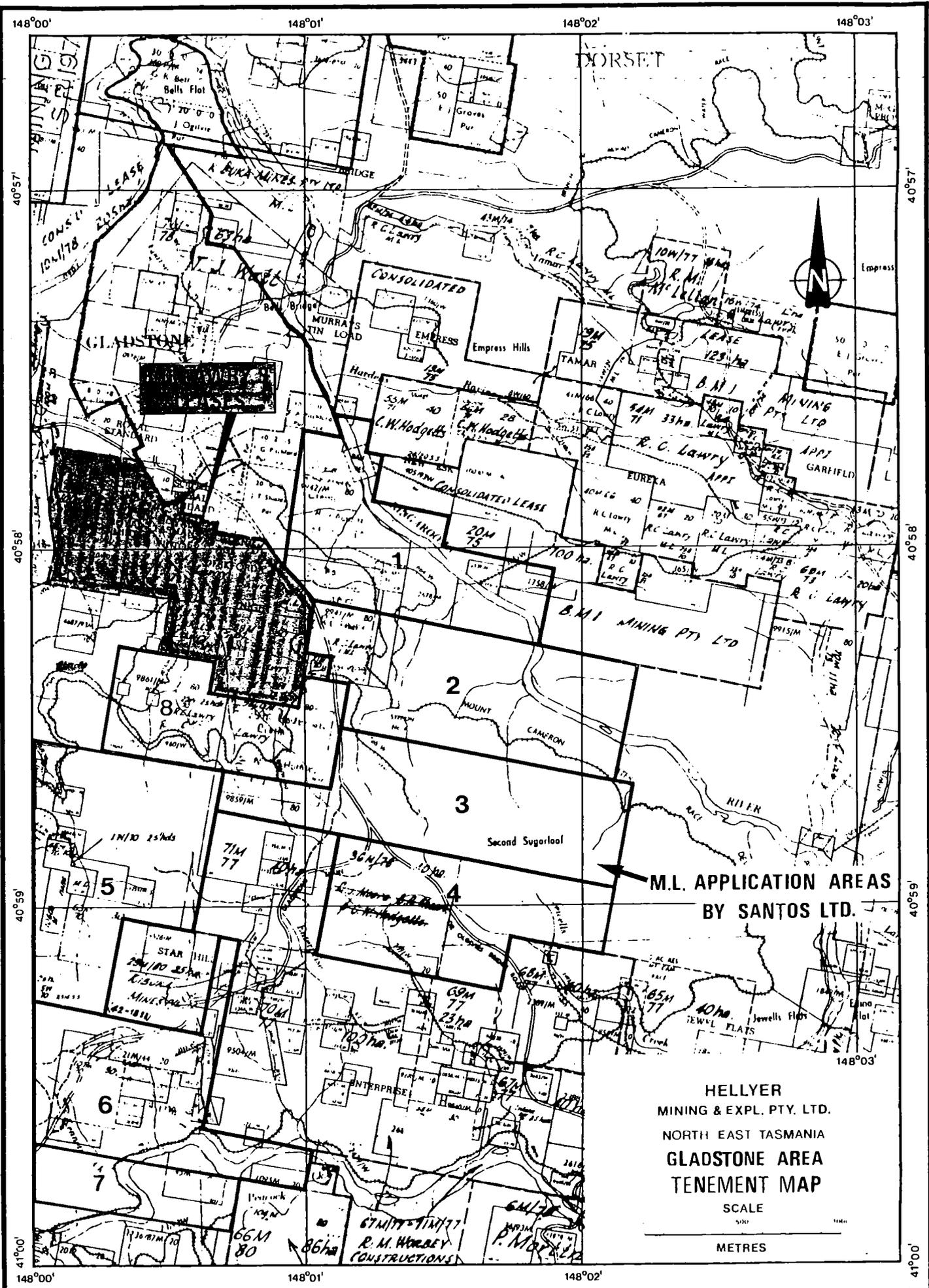
HELLYER MINING & EXPLORATION PTY LTD
 E.I. 9/76 - ANCHOR MINE AREA
 GEOLOGICAL SUMMARY & PROPOSED WORK
 SCALE 1:50,000
 DATE 1976



ALL
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 [Symbol] 1:10000
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17

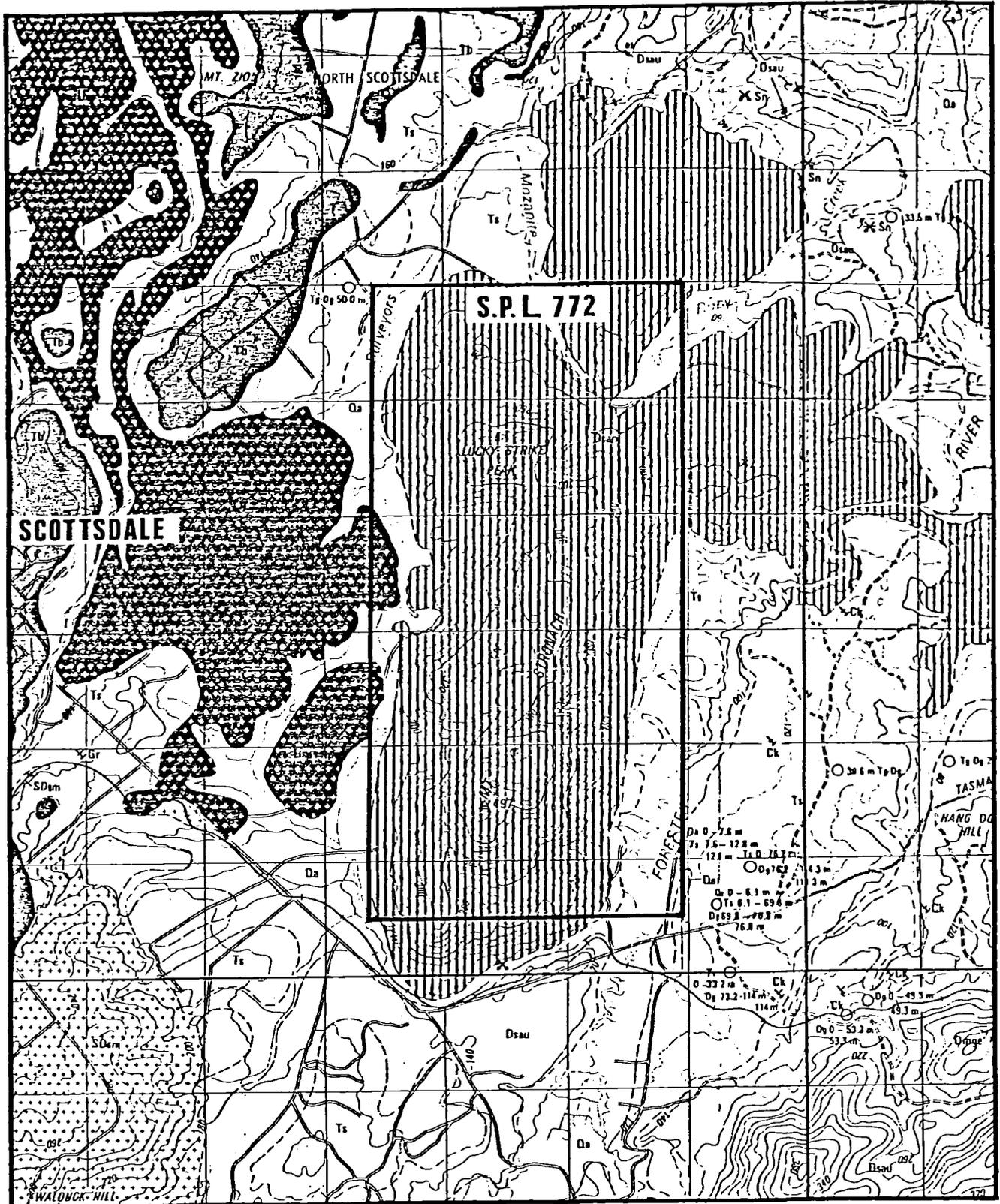
HELLYER MINING & EXPLORATION PTY LTD
 EL 9/76 - MOON MINE AREA
 DRILLING RESULTS & PROPOSED HOLES
 GEOLOGIST: [Name] SCALE: METRES
 DRAWN BY: [Name]
 DATE: [Date]
 DRAWING NO.



HELLYER
MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GLADSTONE AREA
TENEMENT MAP

SCALE
500
METRES

147°50'



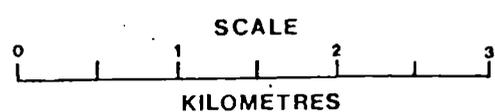
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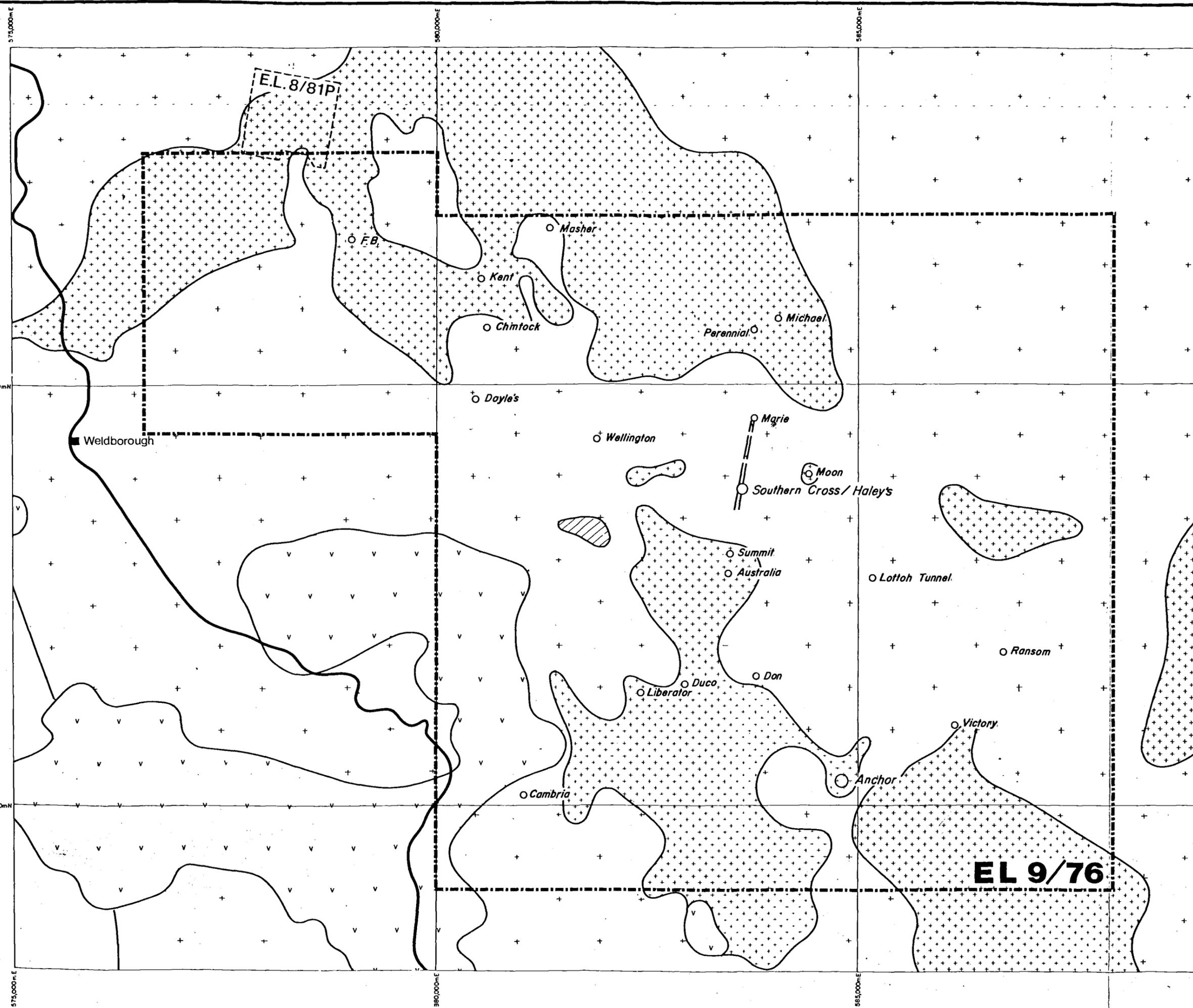
41°40'

147°50'



HELLYER MINING & EXPL. PTY. LTD.
 NORTH EAST TASMANIA
 MT STRONACH S.R.L. 772
 LOCALITY PLAN



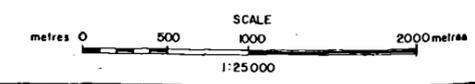


- TERTIARY  Bosalt
- PERMIAN  Shale
-  Biotite - muscovite granite
- UPPER DEVONIAN  Biotite granite / odometite
-  Granodiorite
-  Abandoned primary tin workings

HELLYER MINING & EXPL. PTY. LTD.

TASMANIA

**E.L. 9/76 & 8/81P
REGIONAL GEOLOGY**





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Telex No AAB7710

HM 061/81

MEMO TO: J. D. ARMSTRONG

FILE: HZ 1.01

FROM: D. B. CLARKE

CC: M. G. Roberts
R. Thomas

DATE: 11 AUGUST 1981

D. Partington
Sir William Pettingell

RE: EXPLORATION REPORT, MAY 1981

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38%)

(a) Anchor Mine Area

Drilling of peripheral areas is continuing to define ore margins and is expected to be completed early next month when the results of the programme will be assessed.

(b) Moon Mine Area

Results of analyses of the three holes completed in March indicate that the thickness and grade of mineralization in this area is erratic. Further mapping and interpretation are planned.

(ii) Great Northern Plains E.L. 19/77 (Hellyer 90% interest in metallic minerals)

Churn Drill Holes 32-34; 37-39 were completed and samples submitted to the Tasmanian Department of Mines for assay. Preliminary examination indicates that a number of these holes carry low grade alluvial tin mineralization. Further drill sites have been selected and drilling is continuing in the Foster's Marsh area.

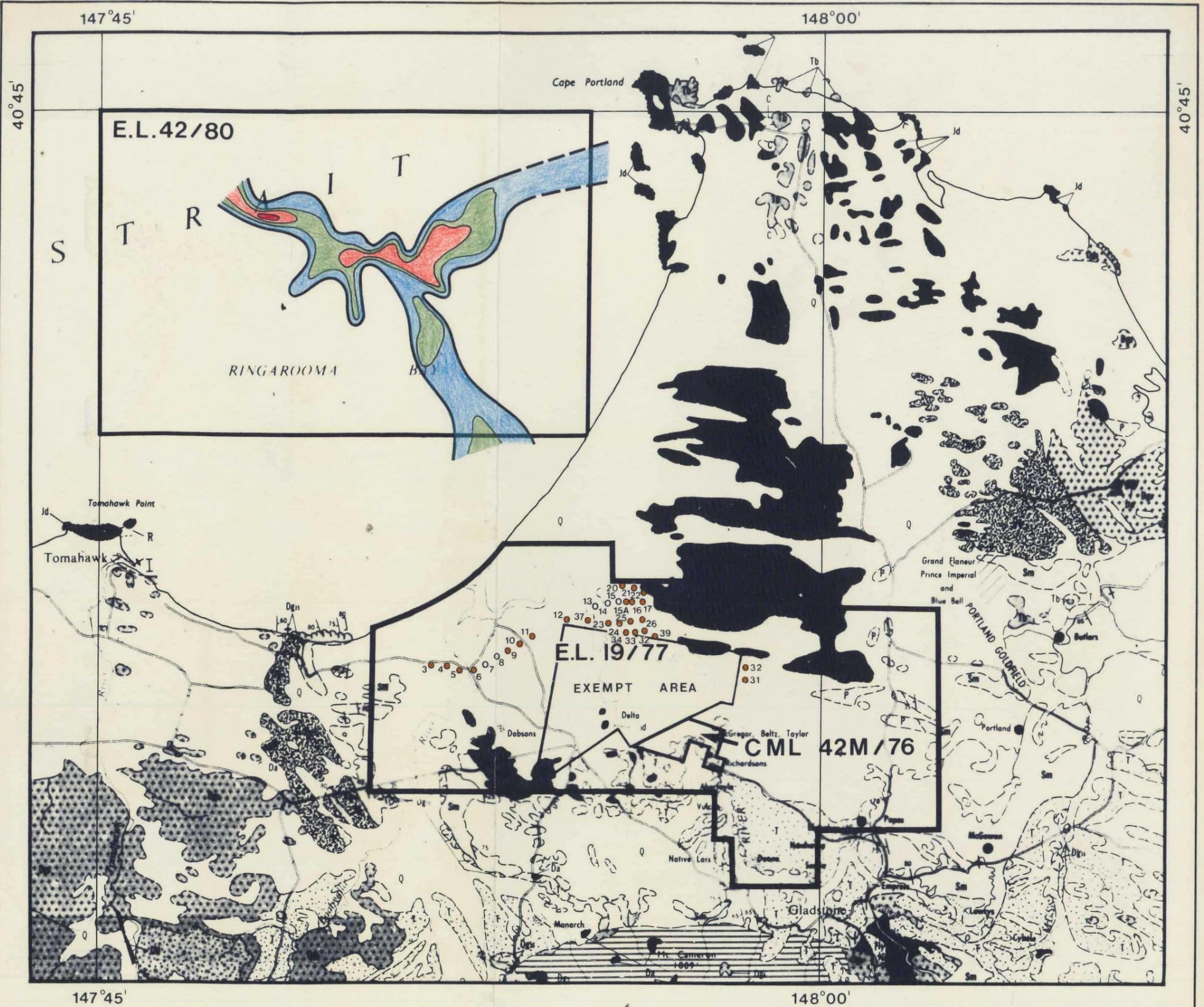
Drill sites have also been chosen in the MacGregor Lead, Dugards and GNP 6 localities.

(iii) Mt. Stronach S.P.L. 772 (Hellyer 100% interest; B. Farquhar 1.25% O.R.R.I.)

Results of the analyses of soil samples confirmed the presence of a moderate molybdenum anomaly over a substantial area on the western flank of Mt. Stronach. Hellyer has exercised its option to acquire the licence in return for granting an O.R.R.I. of 1.25% to Mr. B. Farquhar.

(iv) Lawry Option Areas

The Hellyer applications for M.L.s are under consideration by the Government. Hellyer has been granted an option to acquire a contiguous block of M.L.s covering a number of abandoned tin and gold workings including the Fly-By-Night Mine in return for granting an O.R.R.I. of 1.25% to Mr. R. Lawry.



LEGEND

- Drilling Completed
- Drilling Planned

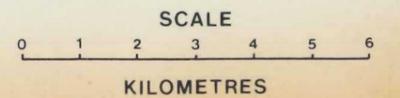
Tin Isograds (oz/yd³)

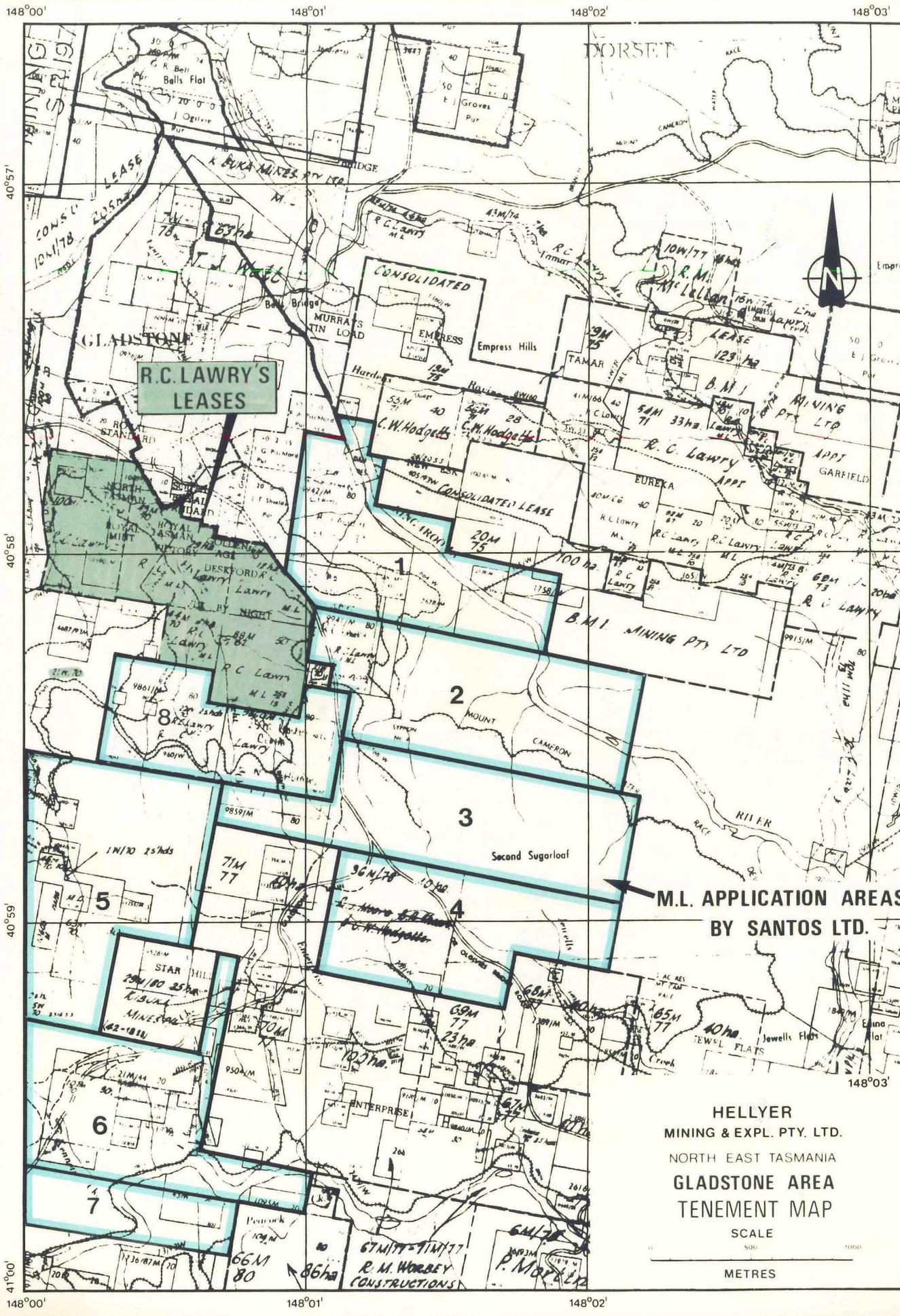
- >6 oz / yd³
- 4-6 oz / yd³
- 2-4 oz / yd³
- <2 oz / yd³



HELLYER MINING & EXPLORATION PTY. LTD.

**NORTH EAST TASMANIA
E.L.19/77, C.M.L.42M/76 & E.L.42/80
LOCALITY MAP**





R.C. LAWRY'S LEASES

M.L. APPLICATION AREAS BY SANTOS LTD.

**HELLYER
MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GLADSTONE AREA
TENEMENT MAP
SCALE
500 1000
METRES**

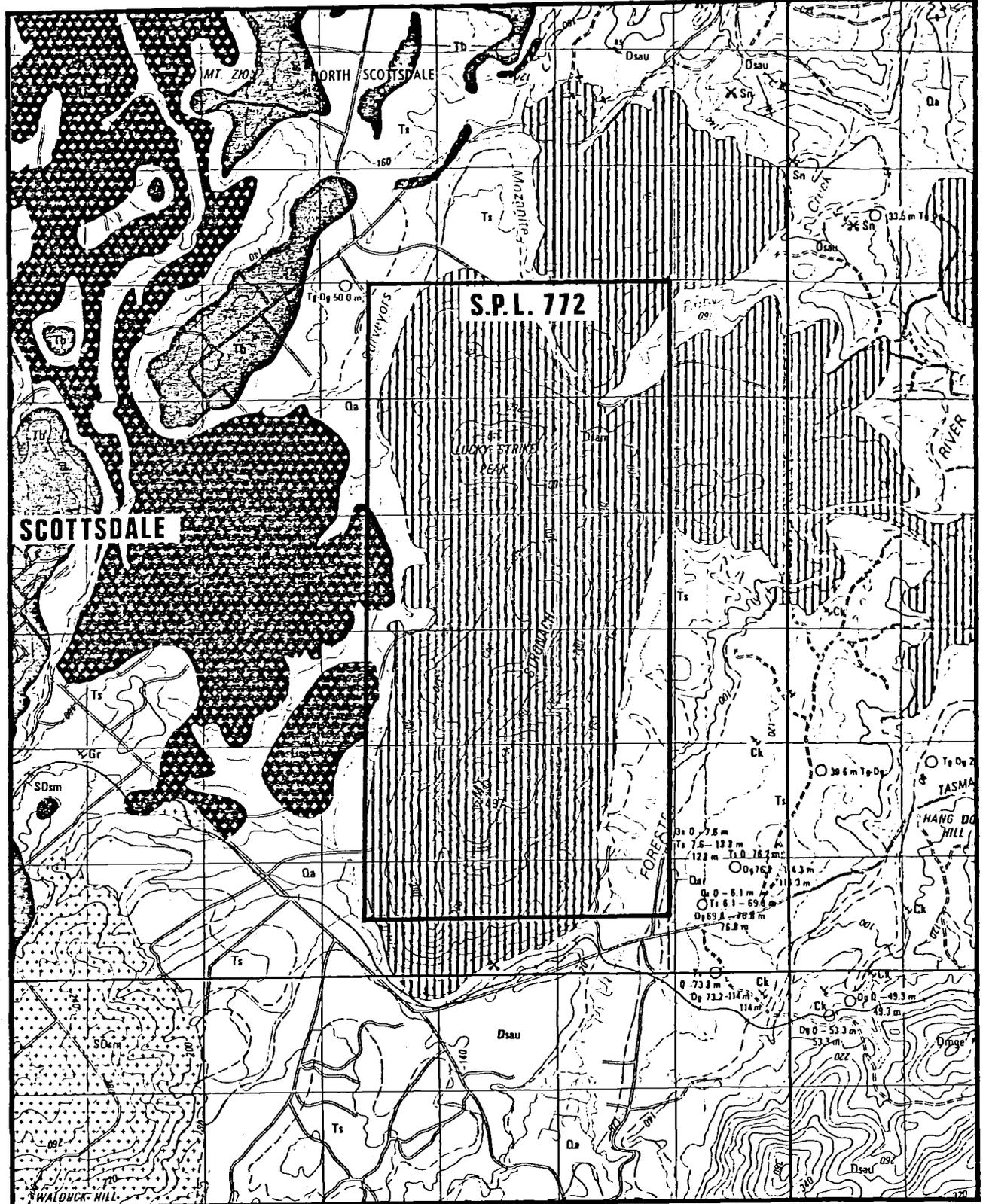
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148°01' 148°01' 148°01'

148°02' 148°02' 148°02'

148°03' 40°57' 40°58' 40°59' 148°03' 41°00'

147°50'

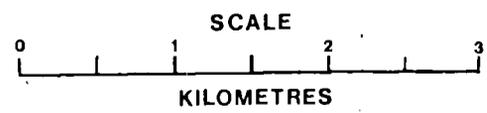


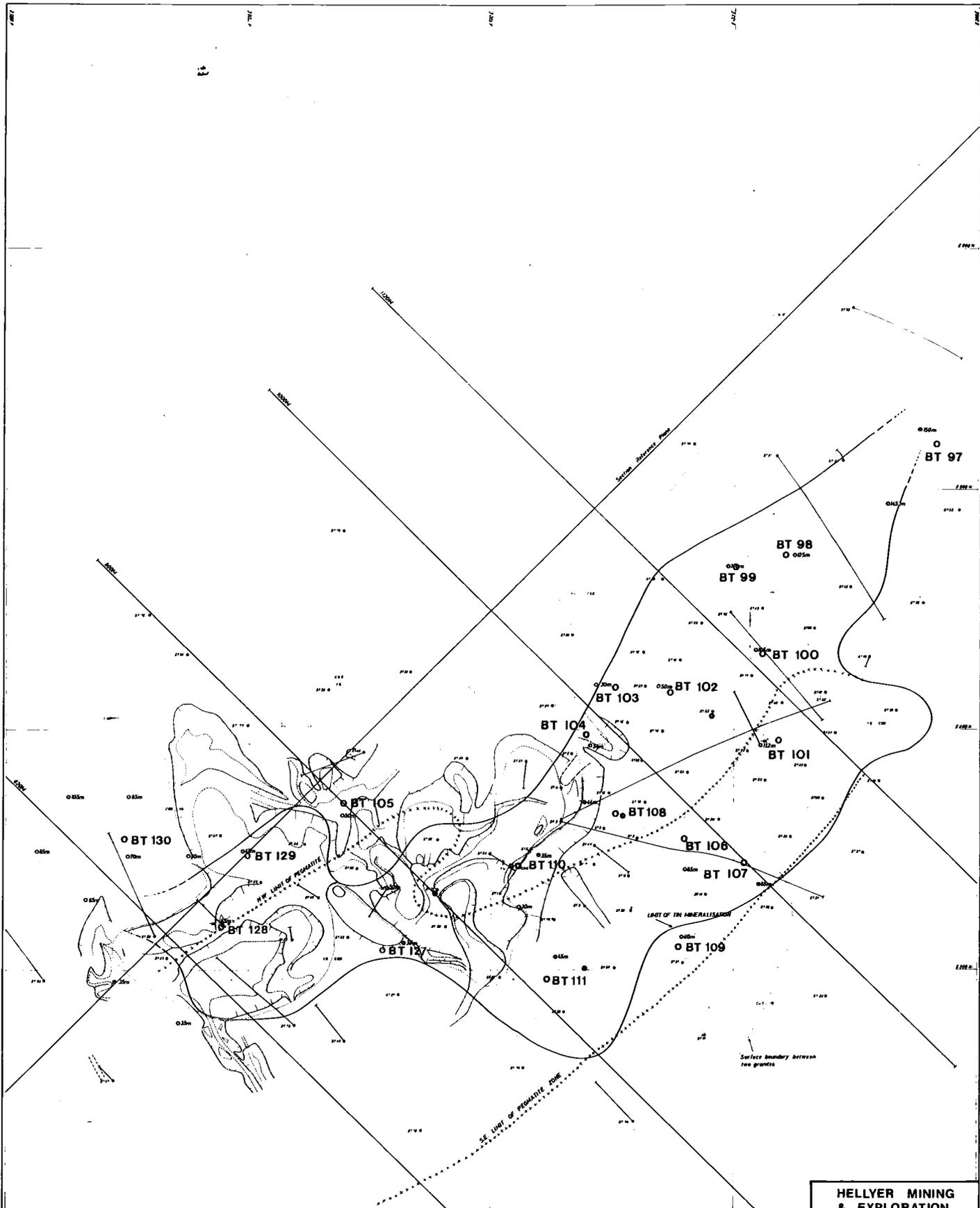
41°40'

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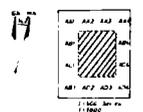
147°50'

HELLYER MINING & EXPL. PTY. LTD.
 NORTH EAST TASMANIA
 MT STRONACH S.P.L. 772
 LOCALITY PLAN





- BULK SAMPLE SITE
- PROPOSED D.D. HOLE

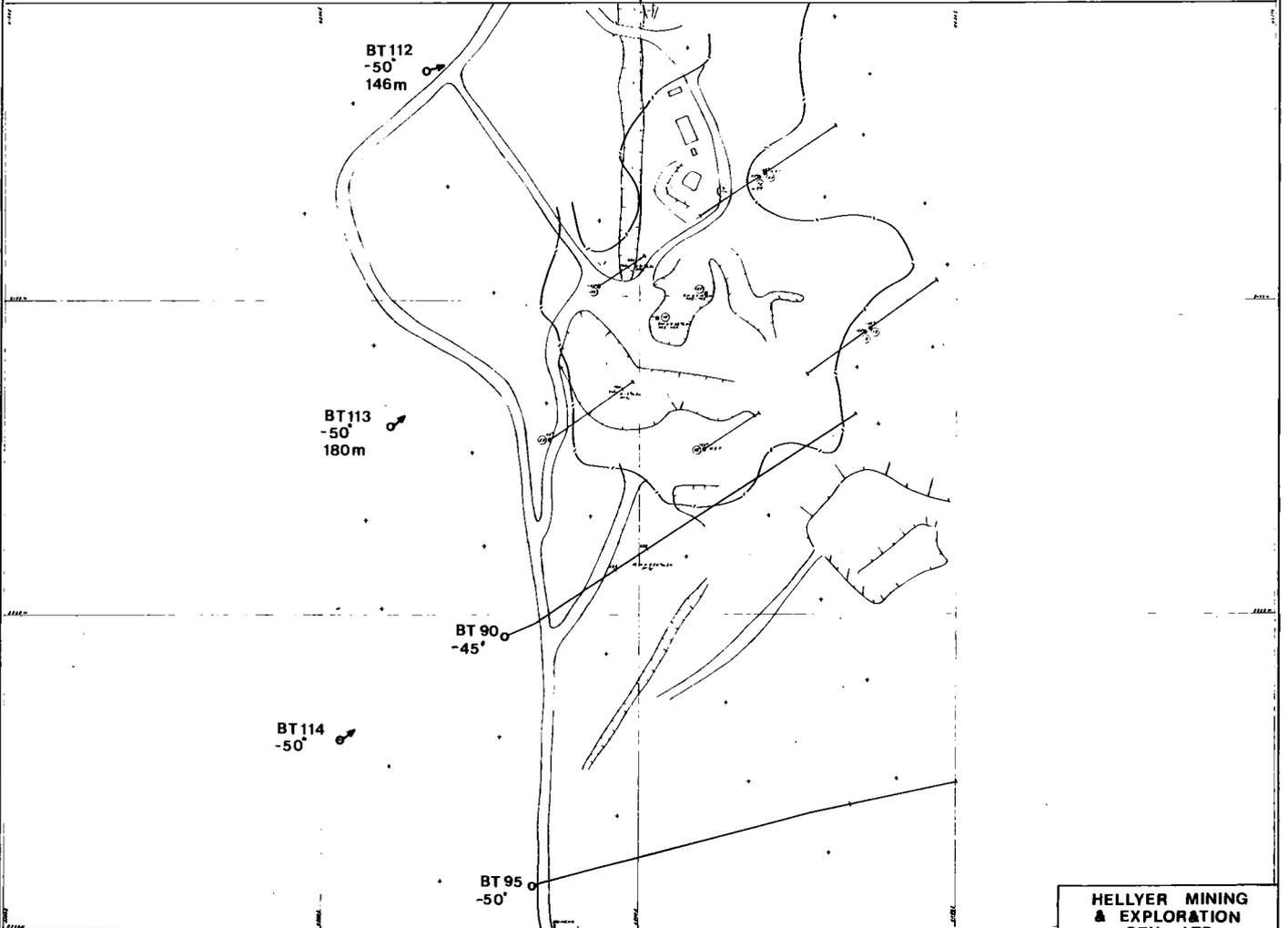
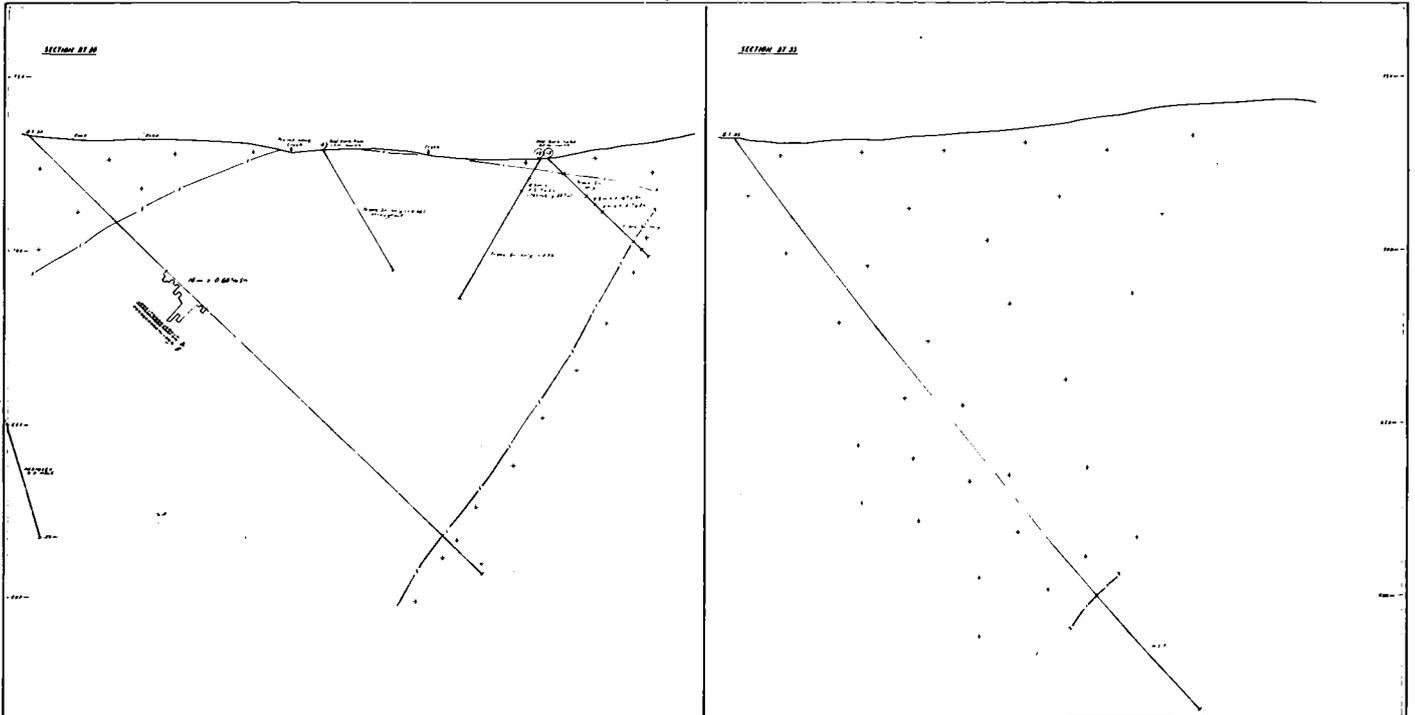


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EL 9/76 - ANCHOR MINE AREA

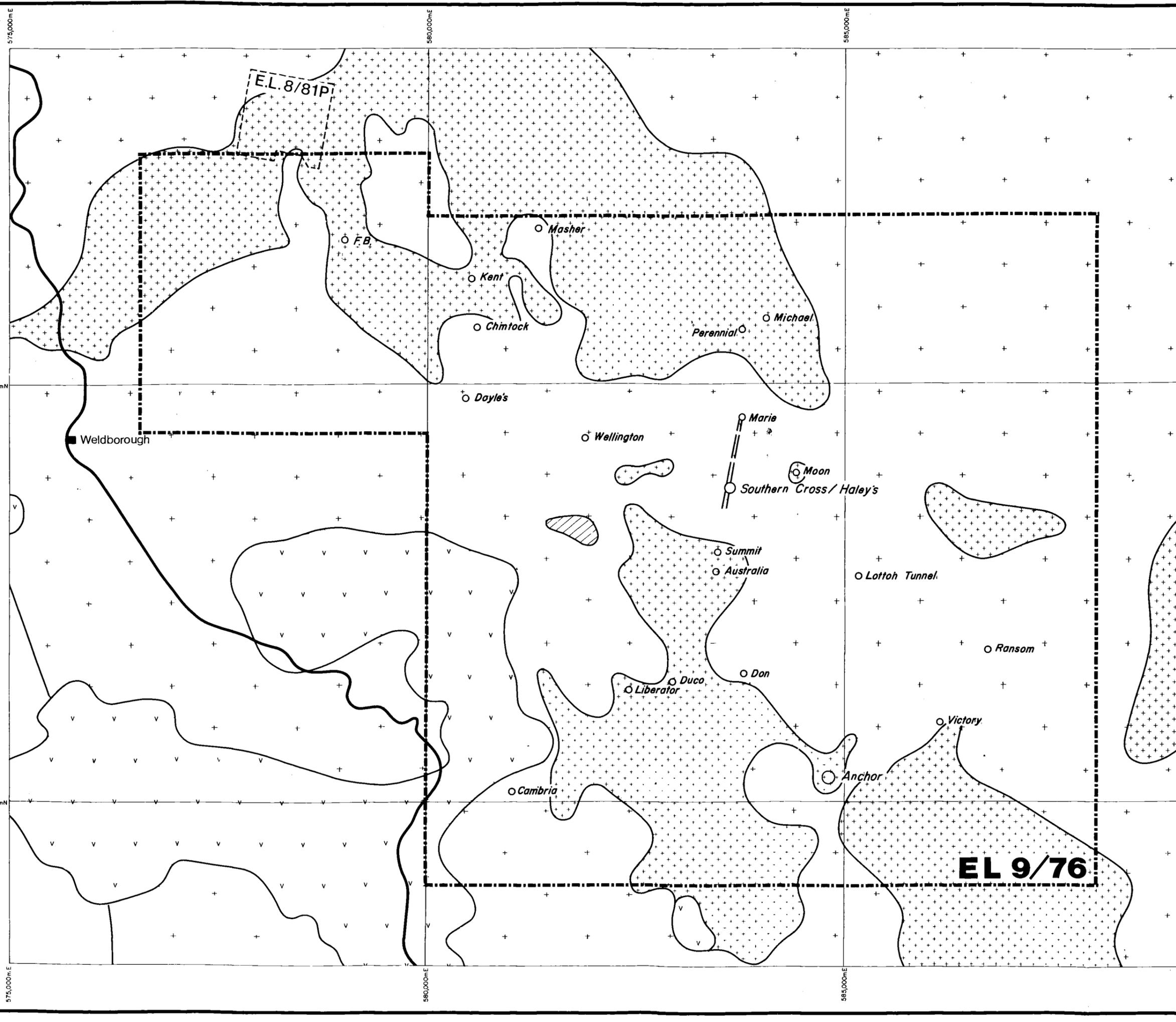
GEOLOGICAL SUMMARY & PROPOSED WORK

GEOLOGIST: G. J. ...
 DRAWN BY: ...
 DATE: ...
 SCALE: 1:50,000



SEE
 HONEY COMB STAMPED SPACINGS
 UNMOUNTED DRAWING
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]
 PROJECT: [Project Name]

HELLYER MINING & EXPLORATION PTY LTD
 E.I. 9/76 - MOON MINE AREA
 DRILLING RESULTS & PROPOSED HOLES
 GEOLOGIST: [Name] SCALE: 1:5000
 DRAWN BY: [Name] DATE: [Date]
 REVISIONS: [Table]



- TERTIARY  Basalt
- PERMIAN  Shale
-  Biotite - muscovite granite
- UPPER DEVONIAN  Biotite granite / adamellite
-  Granodiorite
-  Abandoned primary tin workings

HELLYER MINING & EXPL. PTY. LTD.
TASMANIA
E.L. 9/76 & 8/81P
REGIONAL GEOLOGY

metres 0 500 1000 2000metres
SCALE
1:25,000



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183 Melbourne Street, North Adelaide 5006
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HM.027/81
HZ.1.01

MEMO TO: J.D. ARMSTRONG
FROM: D.B. CLARKE
DATE: 13th MAY, 1981
RE: EXPLORATION REPORT, APRIL, 1981

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38%)

(a) Anchor Mine Area

Hole BT 103 was extended from 41 to 71m. Eight further holes (BT 127-134) were completed for an aggregate meterage of 529m (1735') including two large core (PQ) holes (BT 133 and BT 134) at the BT 65 site. Assays have been received for holes BT 112-114. The results include 2m (6') of 0.78% Sn from 71-73m (233-239') in hole BT 113 and 2m (6') of 0.48% Sn from 101-103m (331-337') in hole BT 114. Other analyses are generally less than 0.10% Sn.

(b) Moon Mine Area

No work was carried out in this area during April.

(ii) Great Northern Plains E.L. 19/77, CML 42M/76
(Hellyer 90% interest in metallic minerals)

The following work was accomplished:

- (a) Churn drill holes GNP 3, 4, 5, 6, 23, 24, 25 and 31 were completed.
- (b) Auger drilling in the vicinity of GNP 16 (5 holes) and the MacGregor Lead (2 holes) was completed. The samples have been logged and concentrated in preparation for analysis.
- (c) Thirty-six back-hoe pits in the vicinity of the old MacGregor workings have been completed and logged. The samples are being concentrated prior to assaying.

- (d) Bulldozing of lines north and south of GNP 16 and access tracks have been completed.
- (e) The Dry Gut workings were inspected prior to possible drilling.

Assay results for tin and gold have been received for holes GNP 13, 15A, 16 and 17. The following table summarizes the tin data:

<u>Hole No.</u>	<u>Total Depth</u>		<u>Interval</u>	<u>Assay</u> (lbs/cu yd)
GNP 13	33.0		0-26	0.16
		including	14-26	0.35
GNP 15A	14.0		0-14	0.38
		including	6-14	0.66
GNP 16	26.0		0-14	0.80
		including	8-14	1.84
GNP 17	26.0		0-20	0.19
		including	10-20	0.37

Several samples (2 metre intervals) returned approximately 0.2 mg free gold in holes GNP 13 and 16 with maximum of 3.65 mg from the interval 20-22m in GNP 13. Three samples in GNP 15A returned approximately 0.1 mg free gold.

Mt. Stronach S.P.L. 772 (Hellyer option for 100% interest,
B. Farquhar 1.25% O.R.R.I)

Several areas surrounding Mt. Stronach were examined for indications of hydrothermal alteration.

Thirteen stream sediment samples and three soil samples were collected from within the licence area.

Attempts to obtain bulk samples (by blasting) were unsuccessful due to slippery conditions. Blasting will be attempted again next month with bulldozer assistance.

c.c. J.O. Zehnder
M.G. Roberts
R. Thomas
D. Partington



HELLYER MINING & EXPLORATION PTY. LTD.

183 Melbourne Street, North Adelaide 5006
P.O. Box 121, North Adelaide 5006

Tel (08) 2675000

Telegraphic address 'SANTOS' Adelaide
Telex No AA 82716

HZ.1.01
HM.009/81

MEMO TO: J.D. ARMSTRONG
FROM: D.B. CLARKE
DATE: 10th APRIL, 1981
RE: EXPLORATION REPORT, MARCH, 1981

Tasmania

(i) Blue Tier E.L. 9/76 (Hellyer 38% interest)

(a) Anchor Mine Area

Eight large core (PQ) holes (BT 115 to BT 122) were completed near the site of BT 71, for an aggregate meterage of 200m, and four similar holes (BT 123 to BT 126) were completed near the site of BT 65, for an aggregate meterage of 260m. Further drilling is in progress at the site of BT 65. The collars of holes BT 109-114 were surveyed, and assay results from holes BT 100-111 were received.

(b) Moon Mine Area

The third and final hole (BT 114) was completed at 201 m. Greisenized intersections from each of holes BT 112, 113 and 114 were split and submitted for tin assay.

(ii) Great Northern Plains E.L. 19/77, CML 42M/76
(Hellyer 90% interest in metallic minerals)

(a) A further four holes were completed by the Department of Mines churn drill.

Tin analyses of concentrates from holes GNP 9, 10, 11 and 12 have been returned, and are below the level of economic interest.

The following work was undertaken:

- (i) Churn drill hole sites GNP 20, 21, 22, 23, 24, 25, 30 and 31 were located,
- (ii) bulldozing of access tracks and drill pads was begun, and
- (iii) auger drilling in the vicinity of GNP 16 and near the MacGregor Lead was begun.

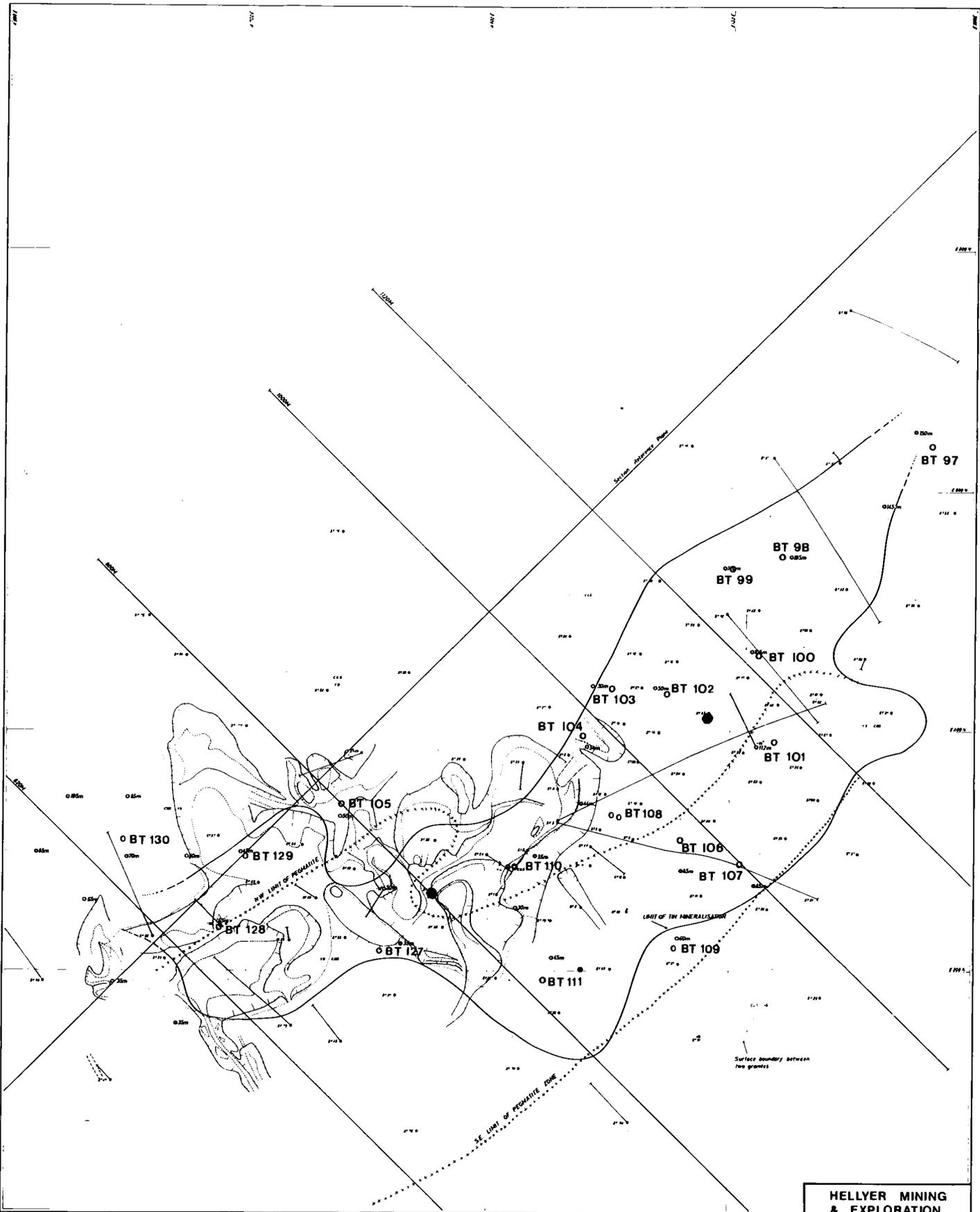
(iv) An aeroplane was stationed in Launceston with a view to obtaining 1 : 10,000 colour airphotographs of the licence area. Due to poor weather conditions no aerial photography was completed during the month.

(b) Mt. Stronach S.P.L. 772 (Hellyer option for 100% interest, B. Farquhar 1.25% ORRI).

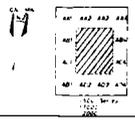
Hellyer was granted an option-to-purchase this licence, to be exercised by the 1st of June, 1981.

Access tracks to two bulk-sampling sites have been prepared by bulldozer.

c.c. J.O. Zehnder
R. Thomas
M. Roberts
D. Partington



● DRILL SAMPLE SITE
○ PROPOSED DD HOLE



HELLYER MINING & EXPLORATION PTY LTD
 EL 9/76 - ANCHOR MINE AREA
 GEOLOGICAL SUMMARY & PROPOSED WORK
 GEOLOGIST: E.F.M.
 DRAUGHTSMAN: M.A.H.
 DATE: 12.10.76
 Scale 1:50,000
 DRAWN BY: [Signature]

E.L. 48/80

C.R.A.

- Drilling Completed
- Drilling Planned

E.L. 19/77

M.H.A.
(Hellyer earning a 90% interest)

E.L. 17/77
C.C.J. BLACKLOW

MOUNT WILLIAM AREA

GLADSTONE MCGOWAN RESERVED AREA

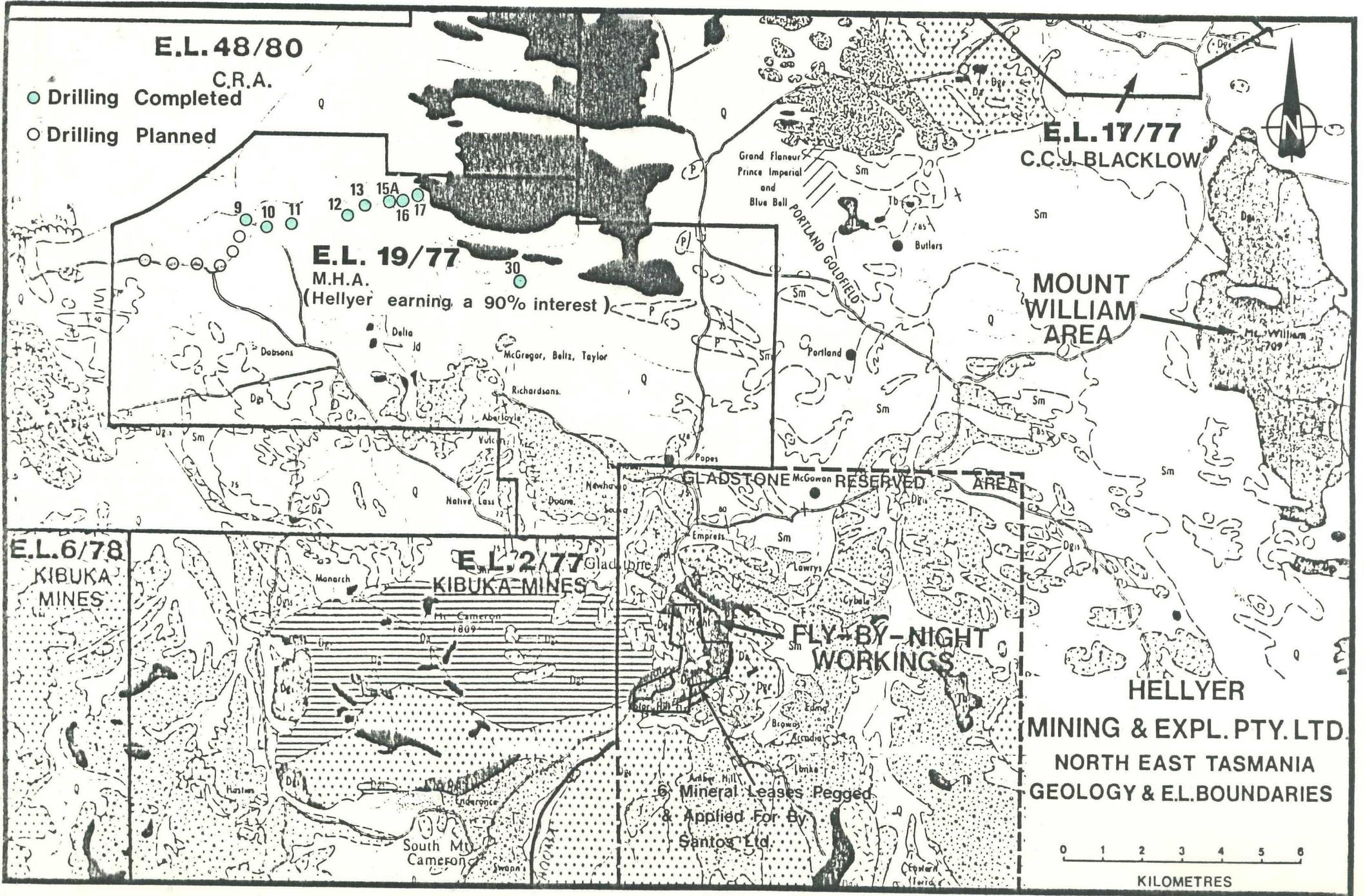
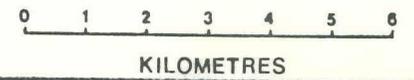
E.L. 6/78
KIBUKA MINES

E.L. 2/77
KIBUKA MINES

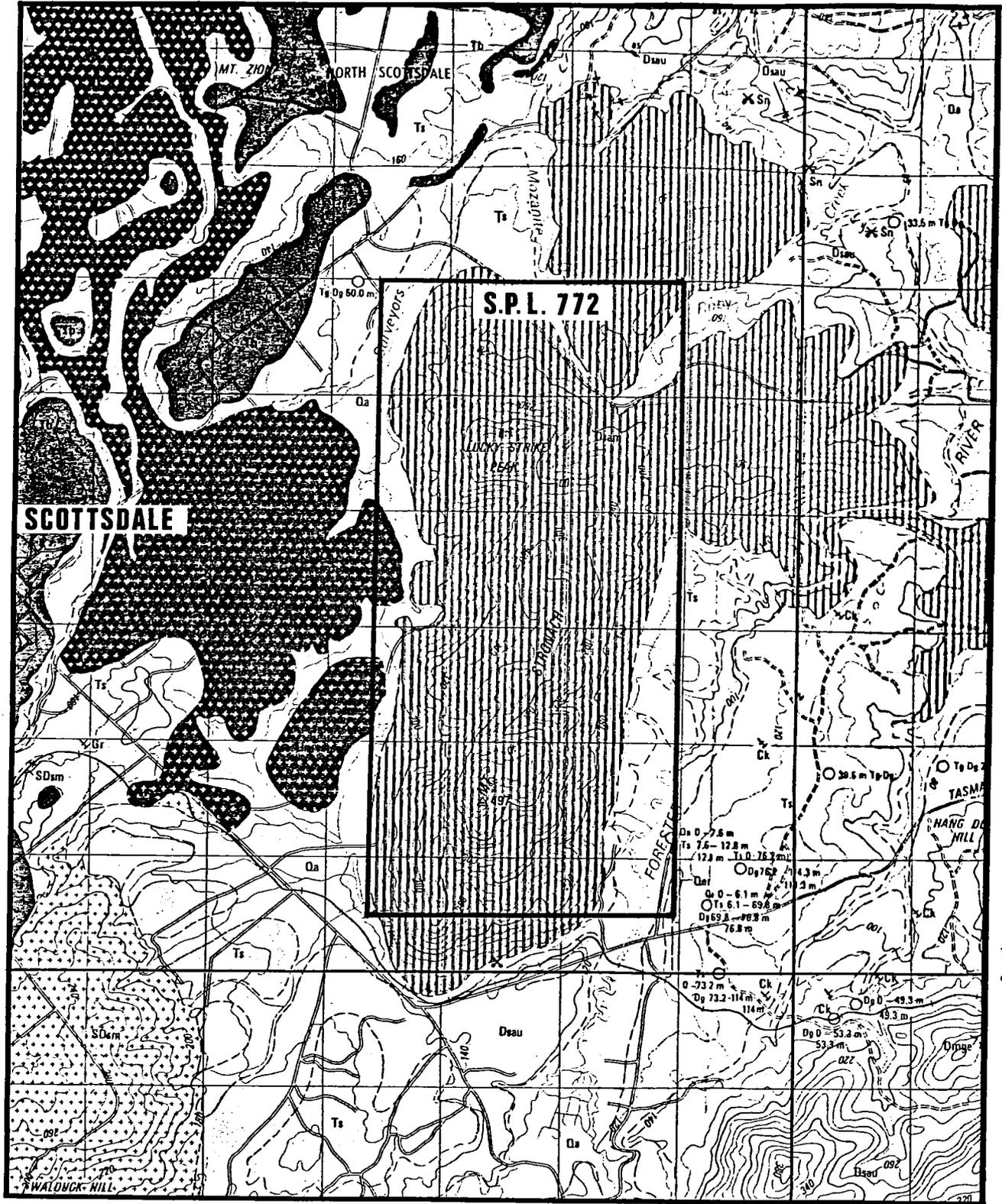
FLY-BY-NIGHT WORKINGS

HELLYER MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GEOLOGY & E.L. BOUNDARIES

Mineral Leases Pegged & Applied For By Santos Ltd



147°50'



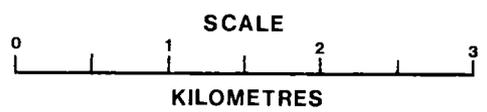
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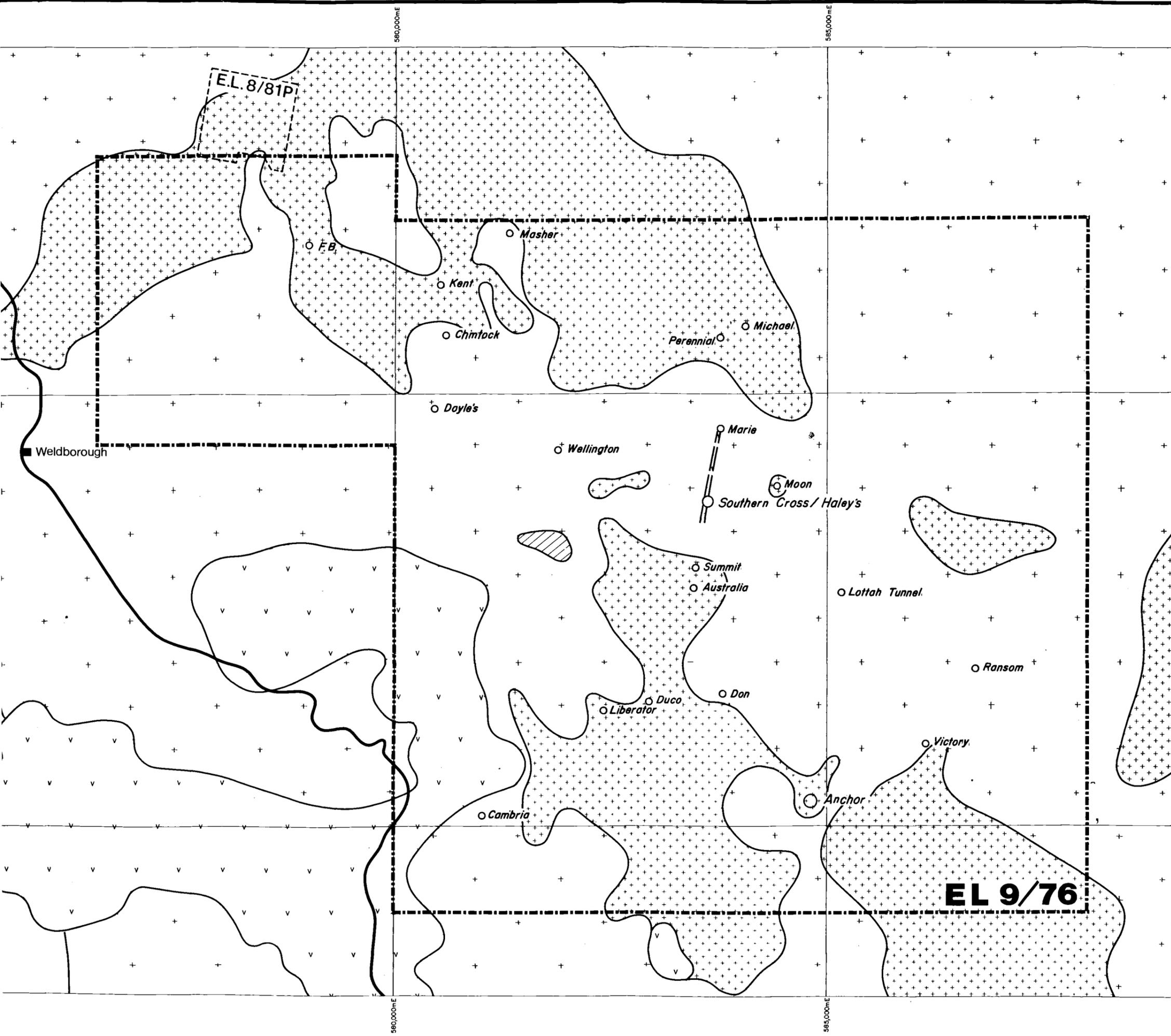
41°40'

147°50'



HELLYER MINING & EXPL. PTY. LTD.
 NORTH EAST TASMANIA
 MT STRONACH S.P.L. 772
 LOCALITY PLAN





- TERTIARY  Basalt
- PERMIAN  Shale
-  Biotite - muscovite granite
- UPPER DEVONIAN  Biotite granite / adamellite
-  Granodiorite
-  Abandoned primary tin workings

HELLYER MINING & EXPL. PTY. LTD.

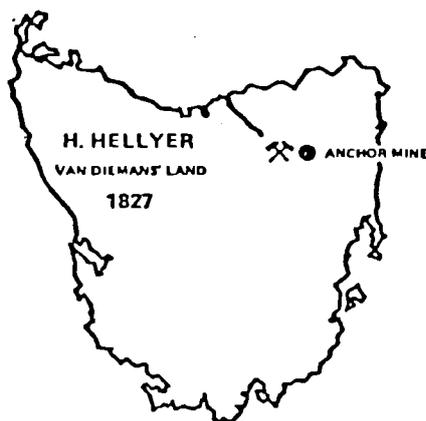
TASMANIA

E.L. 9/76 & 8/81P

REGIONAL GEOLOGY

SCALE
metres 0 500 1000 2000metres
1:25 000

HELLYER MINING & EXPLORATION PTY. LTD.



183 Melbourne Street
North Adelaide 5006
Telephone 267 5000
Telegraphic Address:
"SANTOS" Adelaide
P.O. Box 121
North Adelaide 5006
Telex AA 82716
E.105/81
HZ.1.01

TO: J.D. ARMSTRONG
FROM: D.B. CLARKE
RE: EXPLORATION REPORT, FEBRUARY, 1981.

Tasmania

(i) Blue Tier EL 9/76 (Hellyer, 38% interest)

(a) Anchor Mine Workings

Four more diamond drill holes BT 108, BT 109, BT 110, BT 111 were completed for a total of 323 metres drilled. Further assay results were received from two holes drilled in January.

<u>Hole</u>	<u>Interval (m)</u>	<u>Grade (% tin)</u>
BT 99	45-131	less than 0.1
BT 100	50-66	0.11
	66-71	less than 0.1

Eight holes designed to collect a bulk sample were completed near the site of BT 71.

Ore grade intersections of tin from three holes were reassayed for silver, with the following results.

BT 85	from 1.4 to 2.4 m	1m 26g/t Ag
BT 88	from 13 to 23 m	10m 9g/t Ag
BT 92	from 68 to 74 m	6m 23g/t Ag
	82 to 107 m	25m 22g/t Ag
	119 to 124 m	5m 19g/t Ag

Preliminary metallurgical testwork has indicated that silver minerals will be economically recoverable in any development at Anchor.

(b) Moon Mine Workings

Three diamond drill holes (BT 112, BT 113, BT 114) were completed for a total of 476 metres drilled. No assay results are yet available.

Results of metallurgical testing are not yet available.

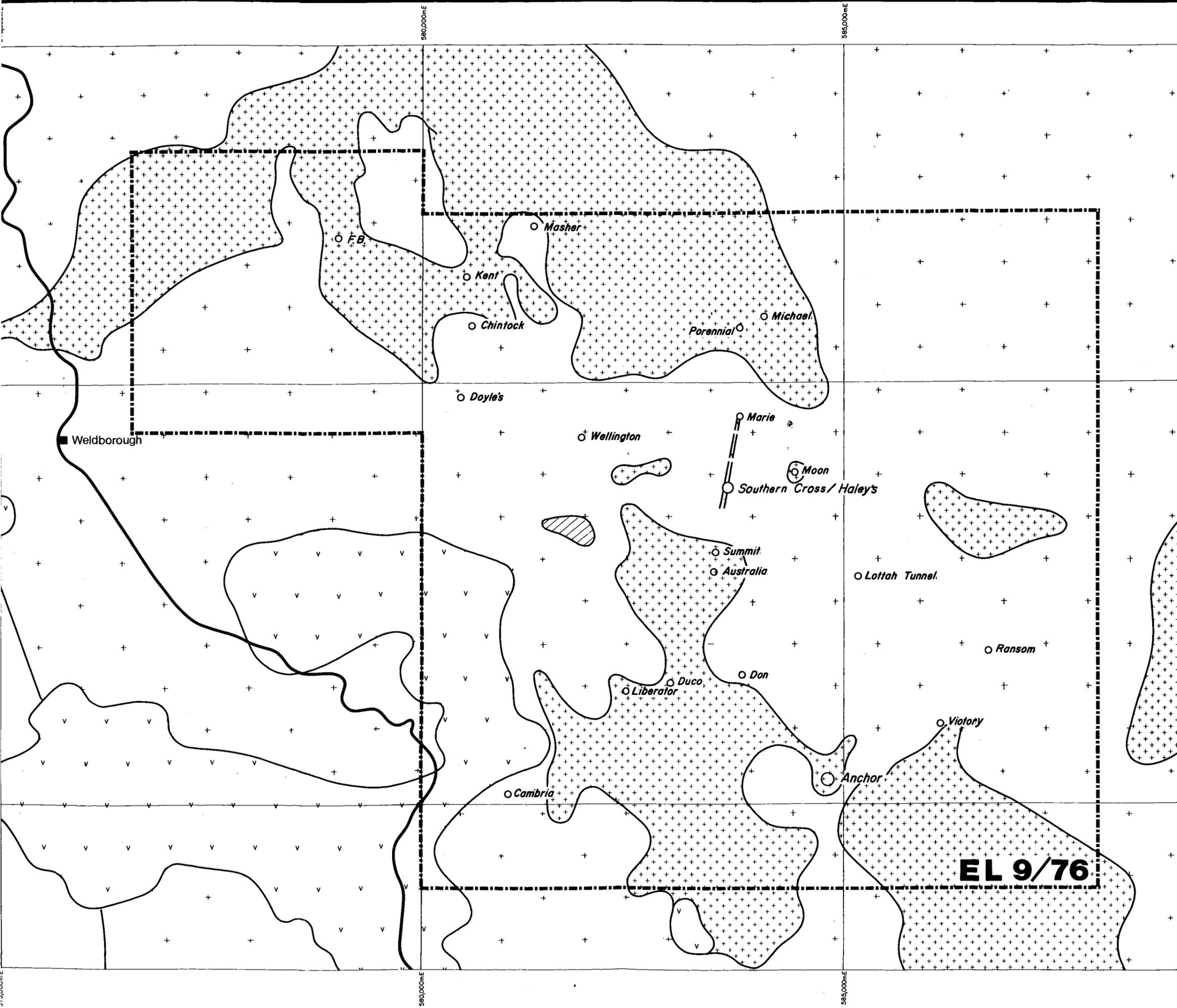
(ii) Great Northern Plains, EL 19/77, CML 42M/76 (Hellyer 90% interest in metallic minerals)

The following holes were completed by a Tasmanian Department of Mines churn drill under contract to Hellyer.

<u>Hole</u>	<u>Depth (m)</u>	<u>Bottom</u>
GNP 11	7.5	Dolerite
GNP 10	20	Wash
GNP 12	22	Dolerite
GNP 9	17	Dolerite
GNP 13	33	Wash

Samples of concentrate have been forwarded for analysis, but no results are yet available.

c.c. J.O. ZEHNDER
R. THOMAS
M.G. ROBERTS
D. PARTINGTON



5,440,000mN

5,435,000mN

- TERTIARY  Basalt
- PERMIAN  Shale
-  Biotite - muscovite granite
- UPPER DEVONIAN  Biotite granite / adamellite
-  Granodiorite
-  Abandoned primary tin workings

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TASMANIA

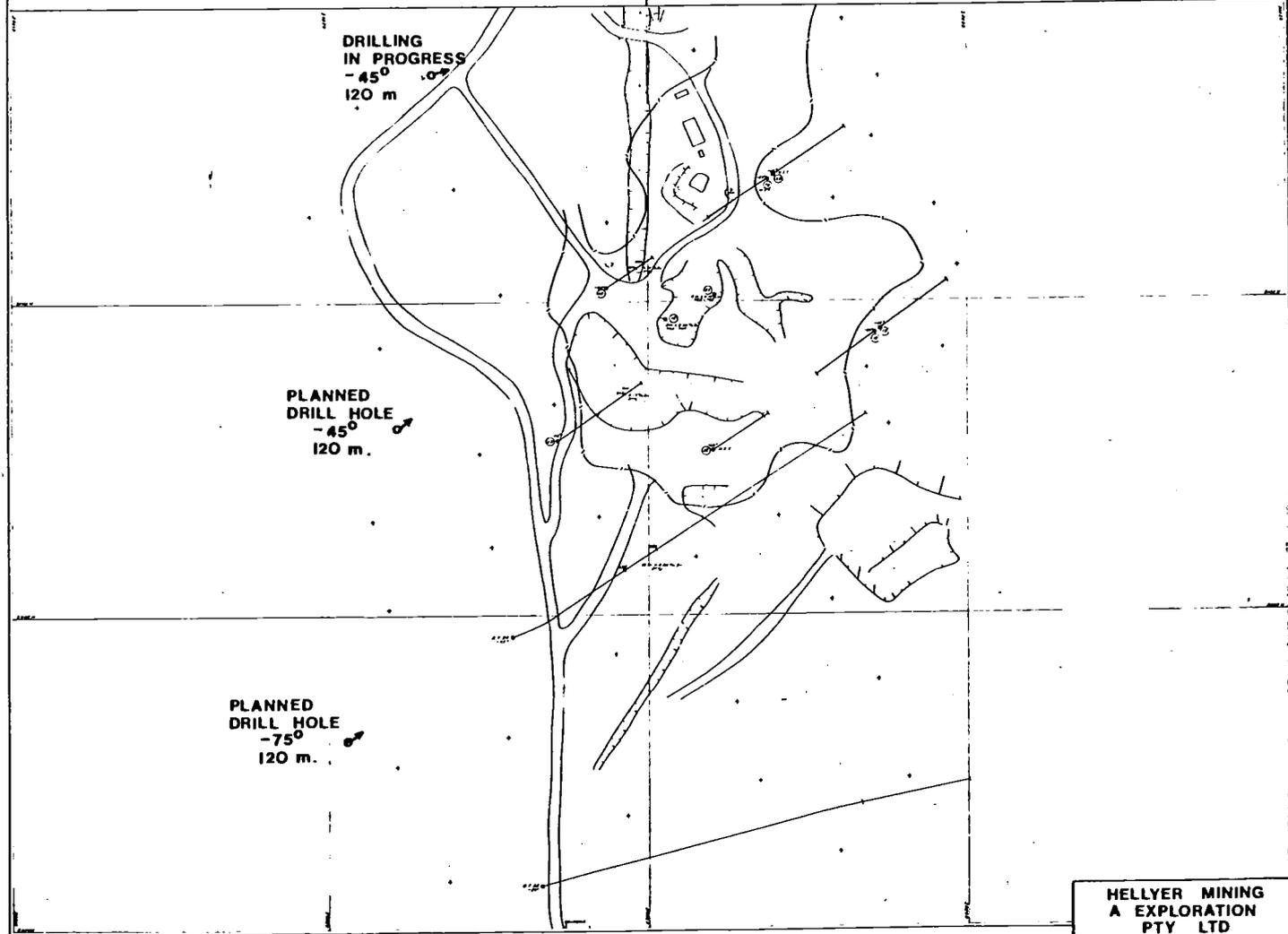
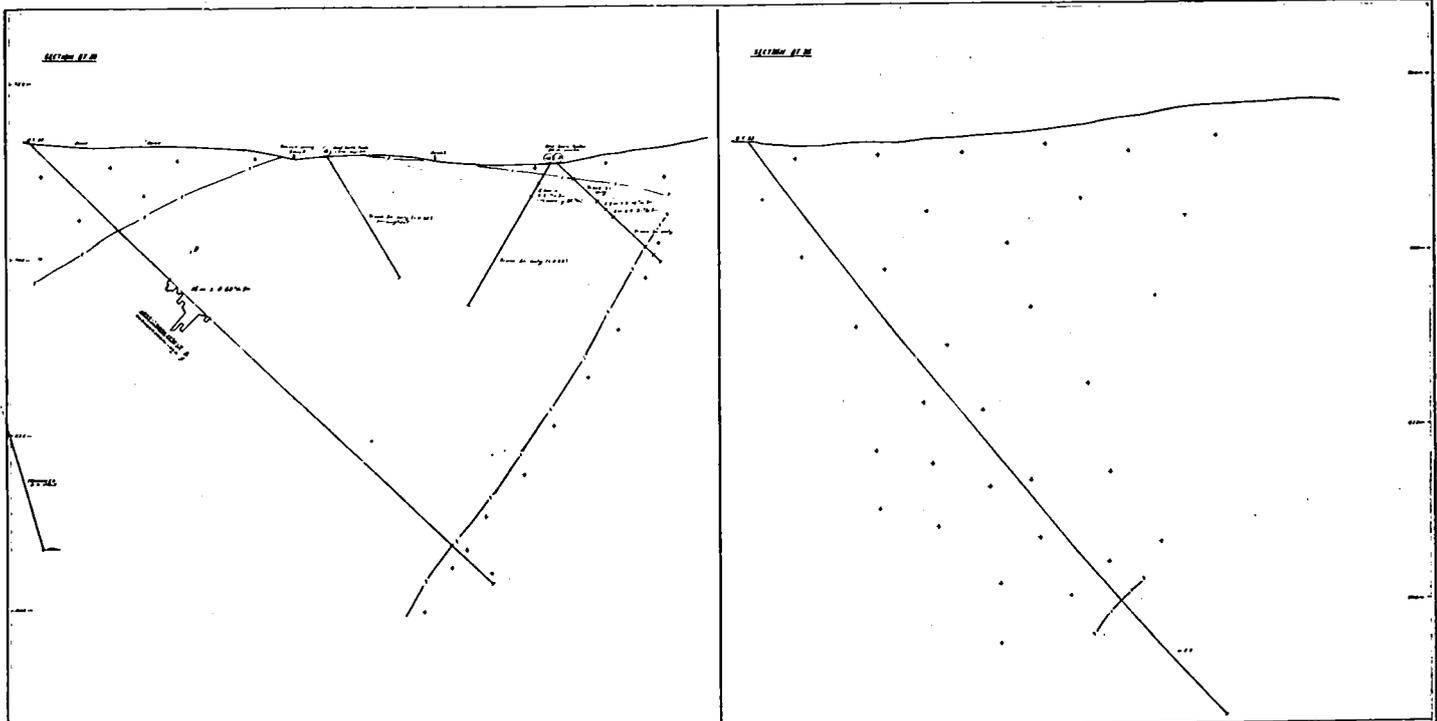
E.L. 9/76

REGIONAL GEOLOGY

metres 0 500 1000 2000metres

SCALE
1:25,000

EL 9/76



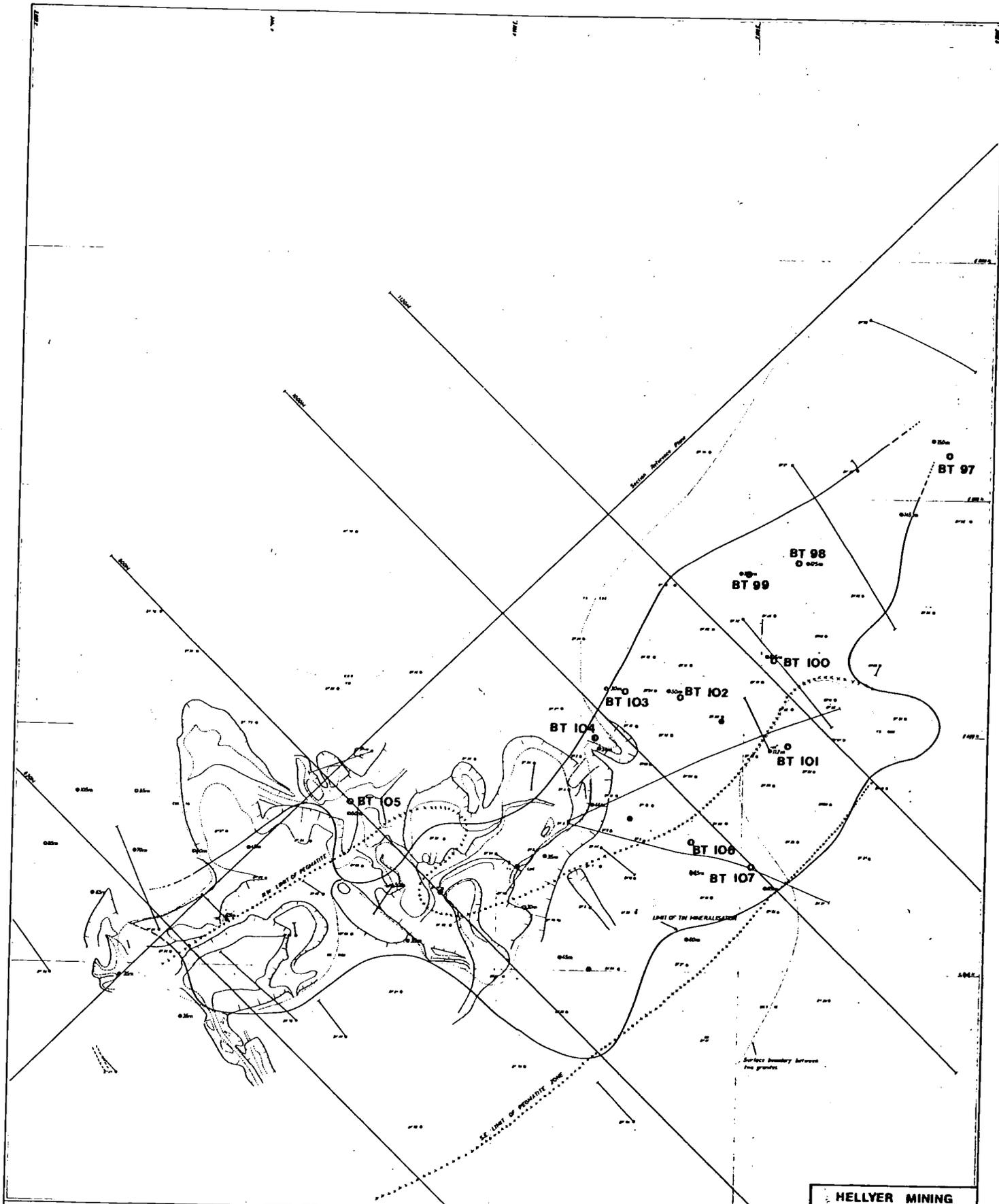
SEE
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 [Symbol] 1000' above ground level
 [Symbol] 500' above ground level
 [Symbol] 250' above ground level
 [Symbol] 125' above ground level
 [Symbol] 62.5' above ground level



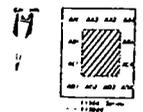
**HELLYER MINING
 A EXPLORATION
 PTY LTD**

EL 9/76
 DRILLING RESULTS & PROPOSED HOLES

GEO. CONST. [] SCALE METRES
 DRAWN BY [] DATE []
 CHECKED BY []
 APPROVED BY []



● BULK SAMPLE SITE
 ■ PROPOSED DRILL HOLE



HELLYER MINING & EXPLORATION PTY LTD
 EL 9/76 - ANCHOR MINE AREA
 GEOLOGICAL SUMMARY & PROPOSED WORK
 GEOLOGIST: E.A.L. SCALE: 1:50,000
 SURVEYOR: DATE: 1976
 DRAWN BY: DATE: 1976
 CHECKED BY: DATE: 1976

E.L. 48/80

C.R.A.

○ Drilling Completed

○ Drilling Planned

E.L. 17/77
C.C.J. BLACKLOW

E.L. 19/77
M.H.A.
(Hellyer earning a 90% interest)

MOUNT WILLIAM AREA

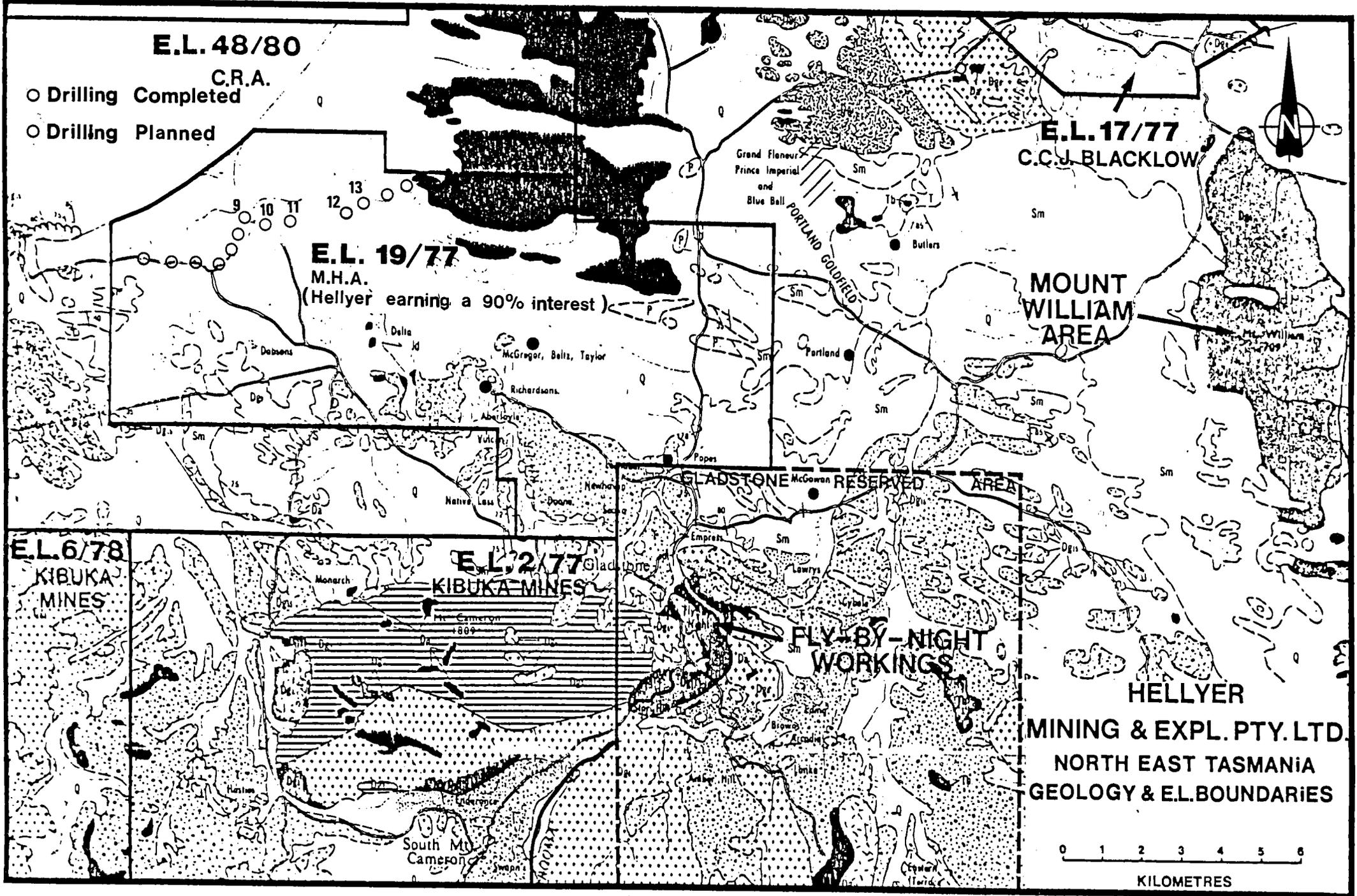
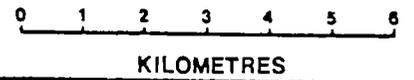
GLADSTONE MCGOWAN RESERVED AREA

E.L. 6/78
KIBUKA MINES

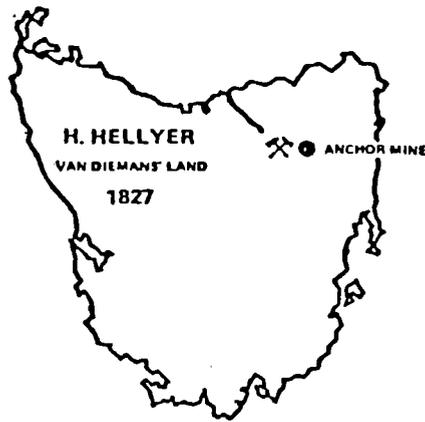
E.L. 2/77
KIBUKA MINES

FLY-BY-NIGHT WORKINGS

HELLYER MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GEOLOGY & E.L. BOUNDARIES



HELLYER MINING & EXPLORATION PTY. LTD.



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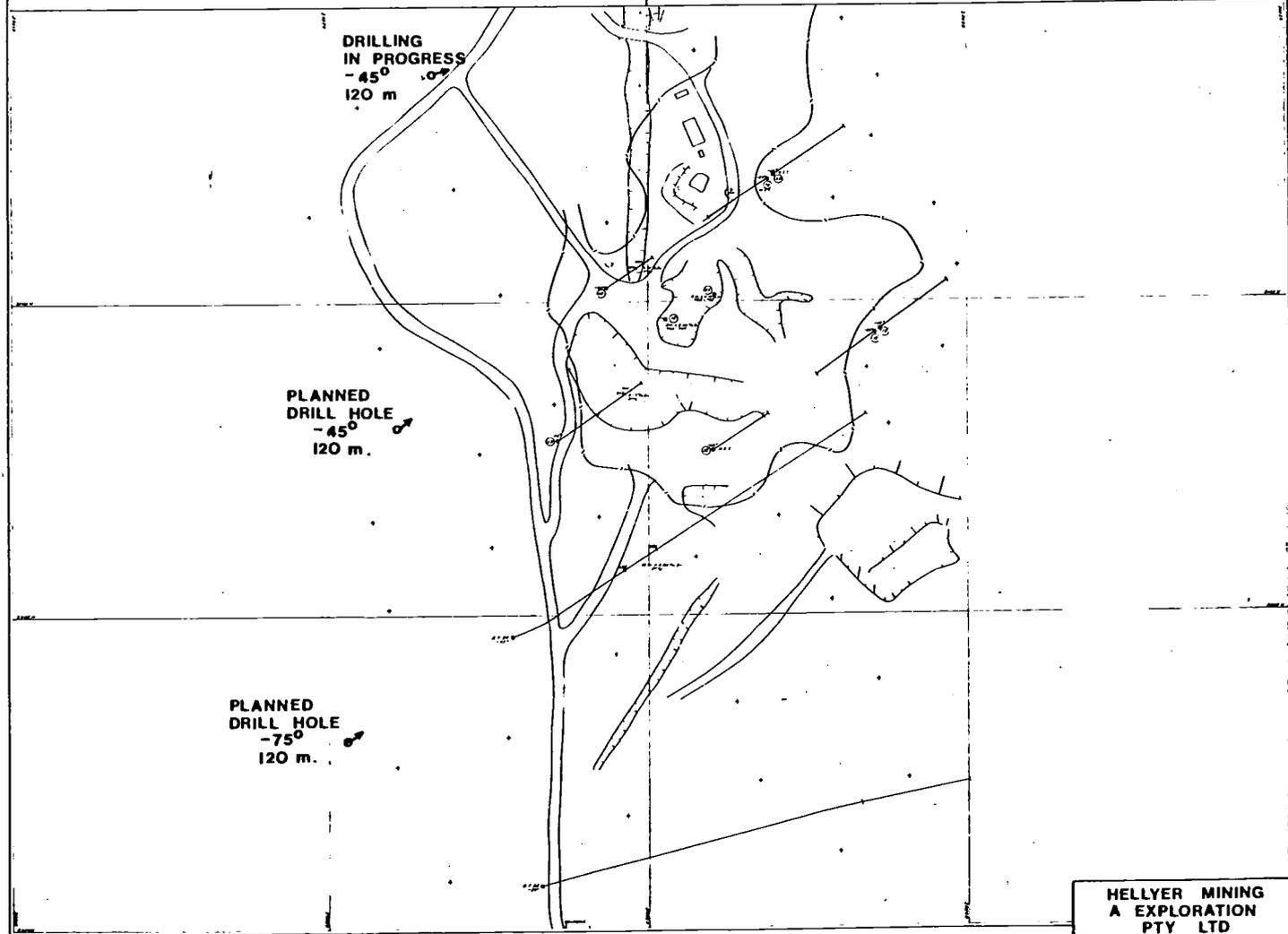
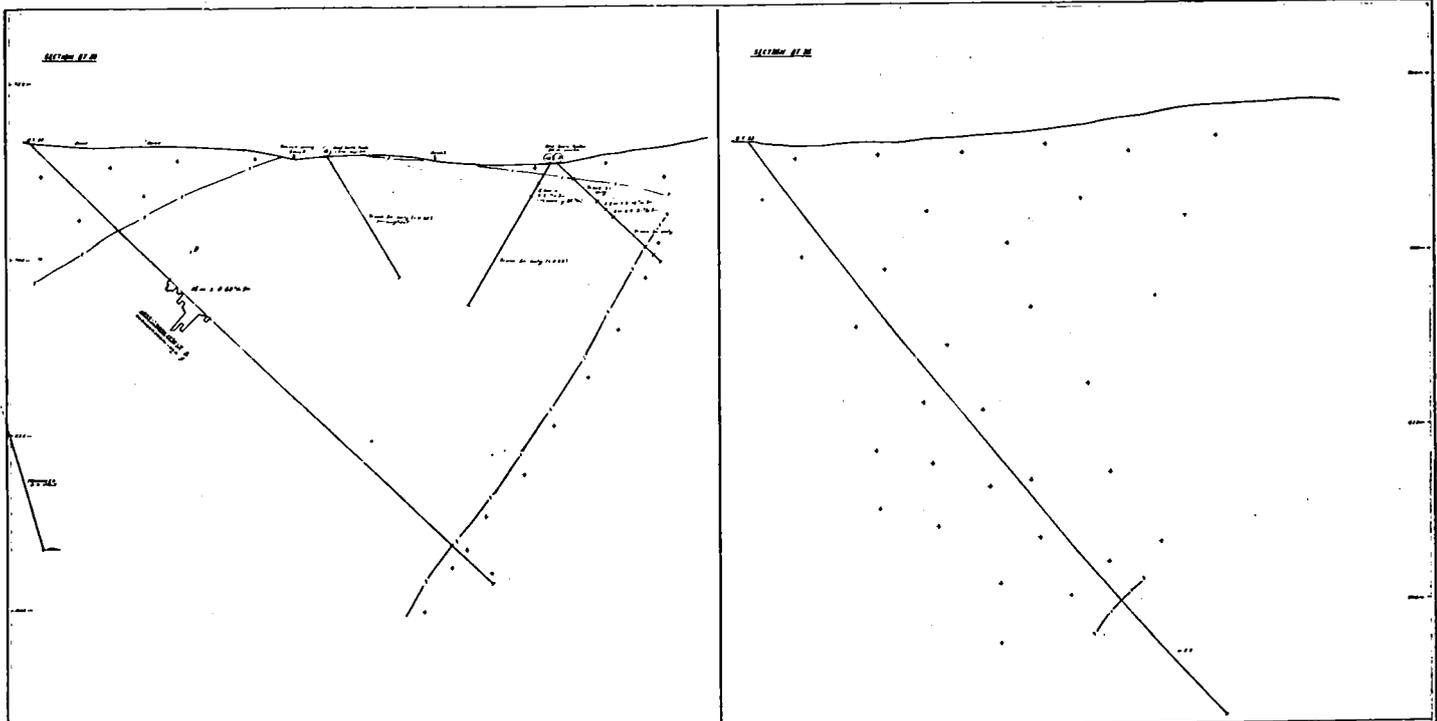
E.104/81
MH.9.10

TO: J.D. ARMSTRONG
FROM: D.B. CLARKE
RE: EXPLORATION REPORT, JANUARY, 1981

Tasmania

- (i) Blue Tier E.L. 9/76 (Hellyer, 38% interest)
- (a) Anchor - From the 1st of December to the 17th February, 1981, thirteen holes were drilled at Anchor. Assay results have been received from four of these.
- | <u>Hole</u> | <u>Interval (m)</u> | <u>Grade (% tin)</u> |
|-------------|---------------------|----------------------|
| BT 97 | 138-139 | 0.11 |
| BT 98 | 61.2-66 | 0.25 |
| BT 99 | 86-87 | 0.11 |
| BT 100 | 50-66 | 0.11 |
- (b) Moon - BT 110 was being drilled on 17/2/81.
- (c) Assay results have been received for geochemical samples collected elsewhere on the licence area, but have not yet been compiled.
- (ii) Great Northern Plains E.L. 19/77, Consolidated Lease 42M/76 (Hellyer 90% interest in metallic minerals)

The results of previous exploration for alluvial tin within the licence area were reviewed. Churn drilling will commence in February.



SEE
 [Symbol] 200m
 [Symbol] 100m
 [Symbol] 50m
 [Symbol] 25m
 [Symbol] 12.5m
 [Symbol] 6.25m
 [Symbol] 3.125m

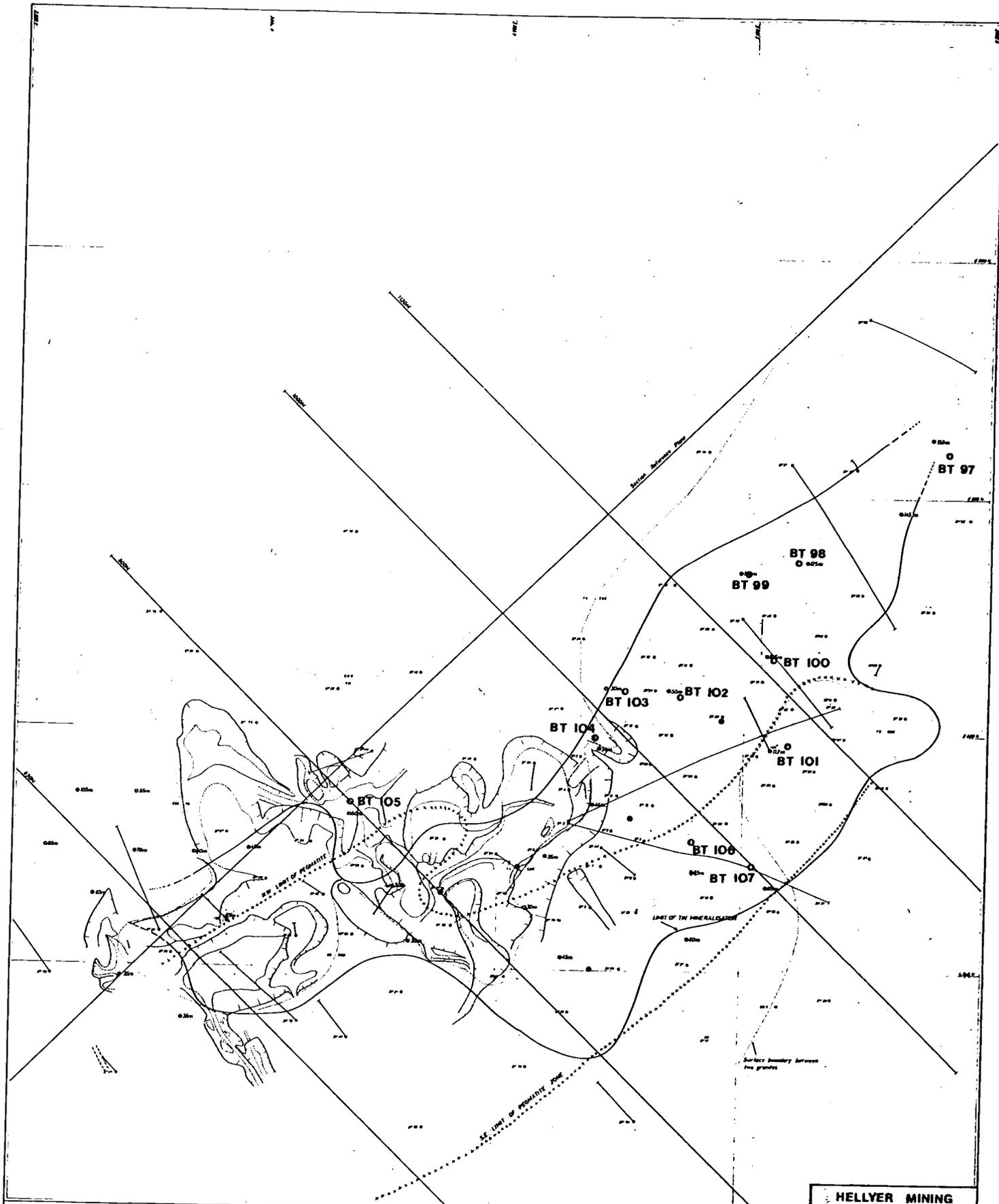


**HELLYER MINING
 A EXPLORATION
 PTY LTD**

EL 9/76
 DRILLING RESULTS & PROPOSED HOLES

GEOLOGIST: [Name]
 DRAWN BY: [Name]
 DATE: [Date]
 REVISION: [Number]

SCALE: 1:5000
 METRES



● BULK SAMPLE SITE
 ● PROPOSED DD HOLE



HELLYER MINING & EXPLORATION PTY LTD
 EL 9/76 - ANCHOR MINE AREA
 GEOLOGICAL SUMMARY & PROPOSED WORK
 GEOLOGIST: E.A.L. SCALE: 1:10000
 DRAWN BY: J.M. DATE: 1976
 CHECKED BY: J.M. DATE: 1976
 APPROVED BY: J.M. DATE: 1976

E.L. 48/80

C.R.A.

○ Drilling Completed

● Drilling Planned

E.L. 19/77

M.H.A.

(Hellyer earning a 90% interest)

E.L. 17/77

C.C.J. BLACKLOW

MOUNT WILLIAM AREA

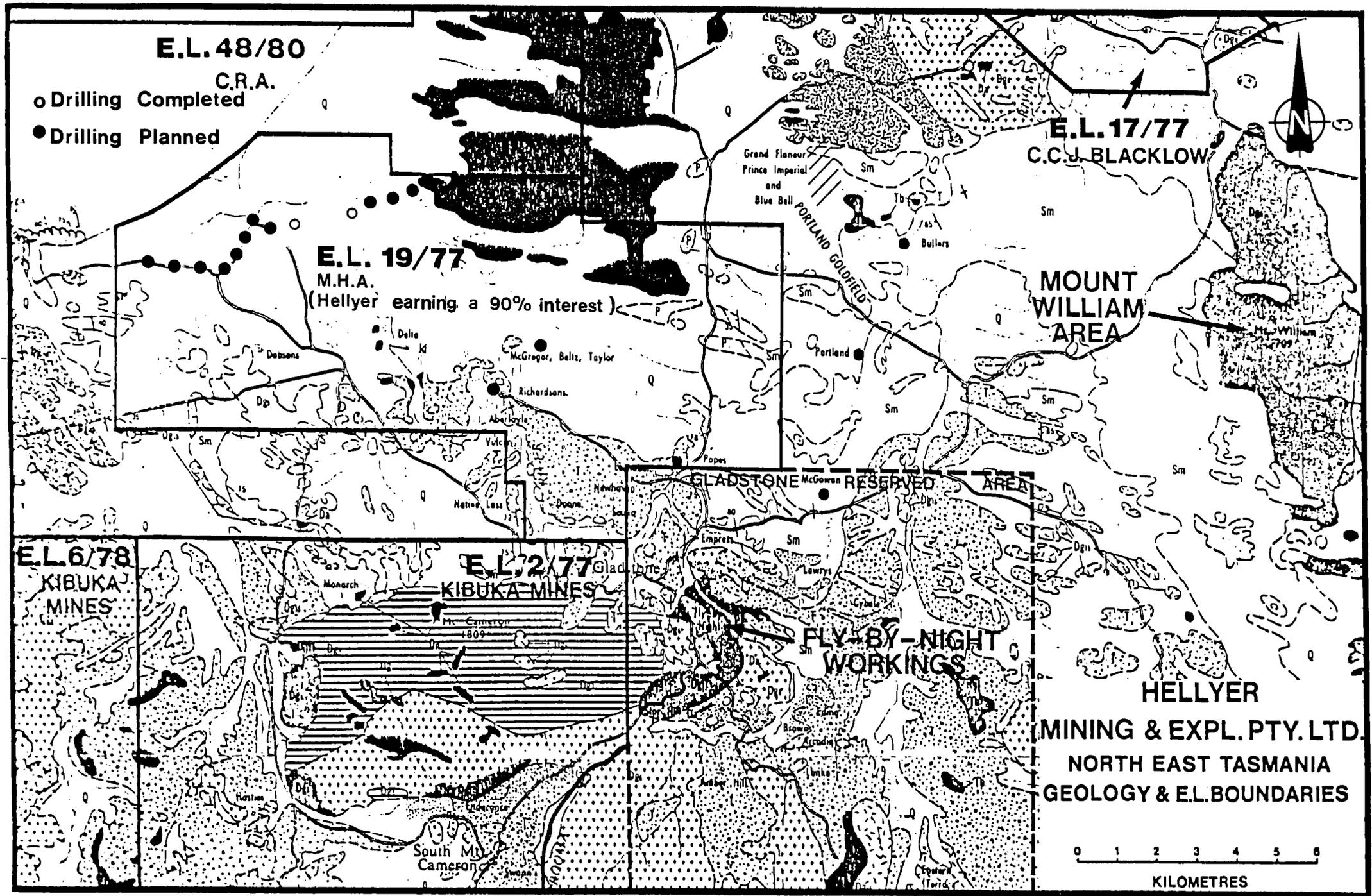
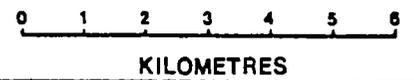
GLADSTONE MCGOWAN RESERVED AREA

E.L. 6/78
KIBUKA MINES

E.L. 2/77
KIBUKA MINES

FLY-BY-NIGHT WORKINGS

HELLYER MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GEOLOGY & E.L. BOUNDARIES



E.L. 48/80

C.R.A.

○ Drilling Completed

● Drilling Planned

E.L. 19/77

M.H.A.

(Hellyer earning a 90% interest)

E.L. 17/77

C.C.J. BLACKLOW

MOUNT WILLIAM AREA

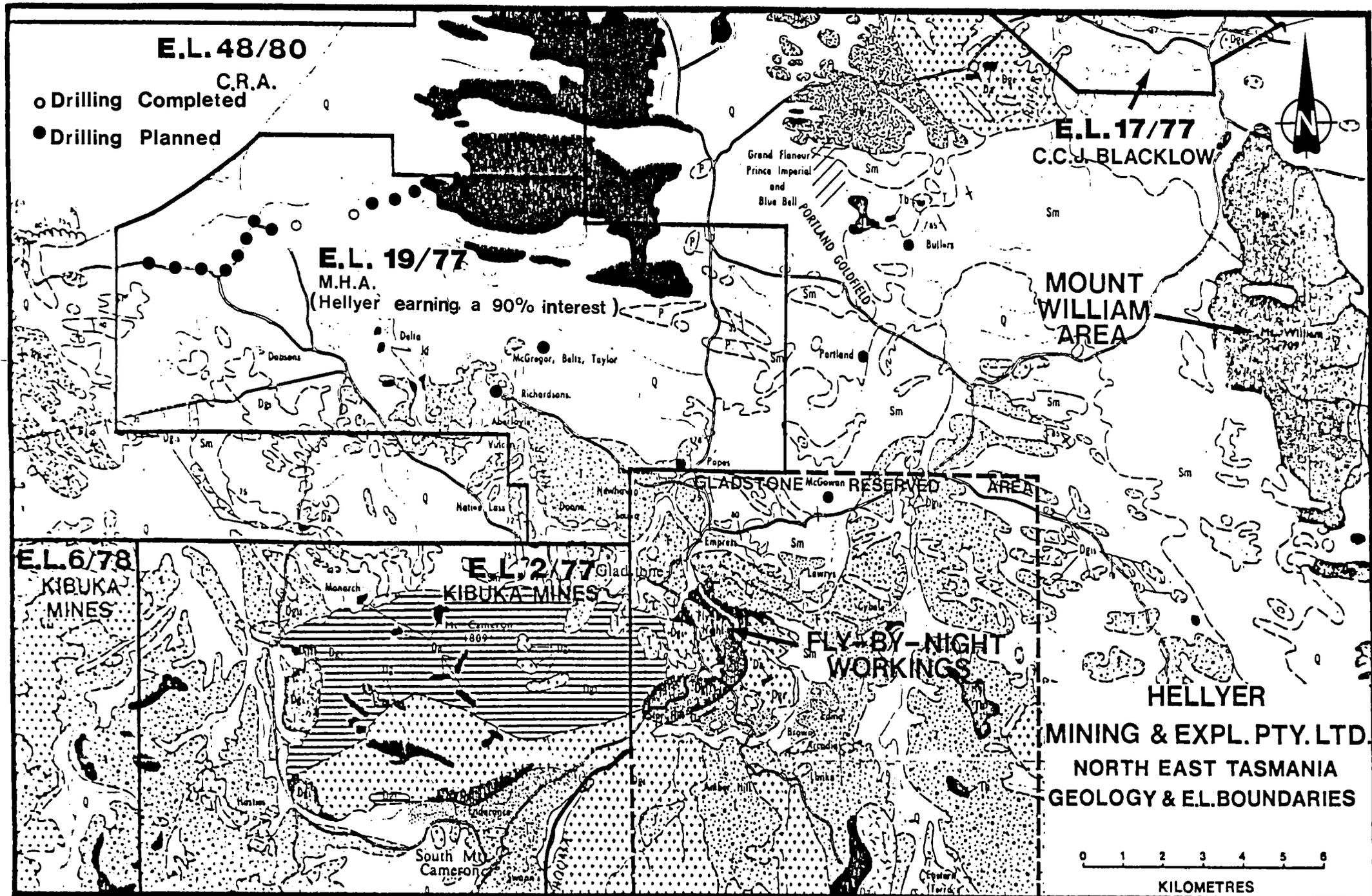
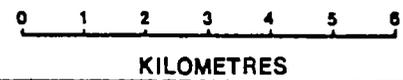
GLADSTONE MCGOWAN RESERVED AREA

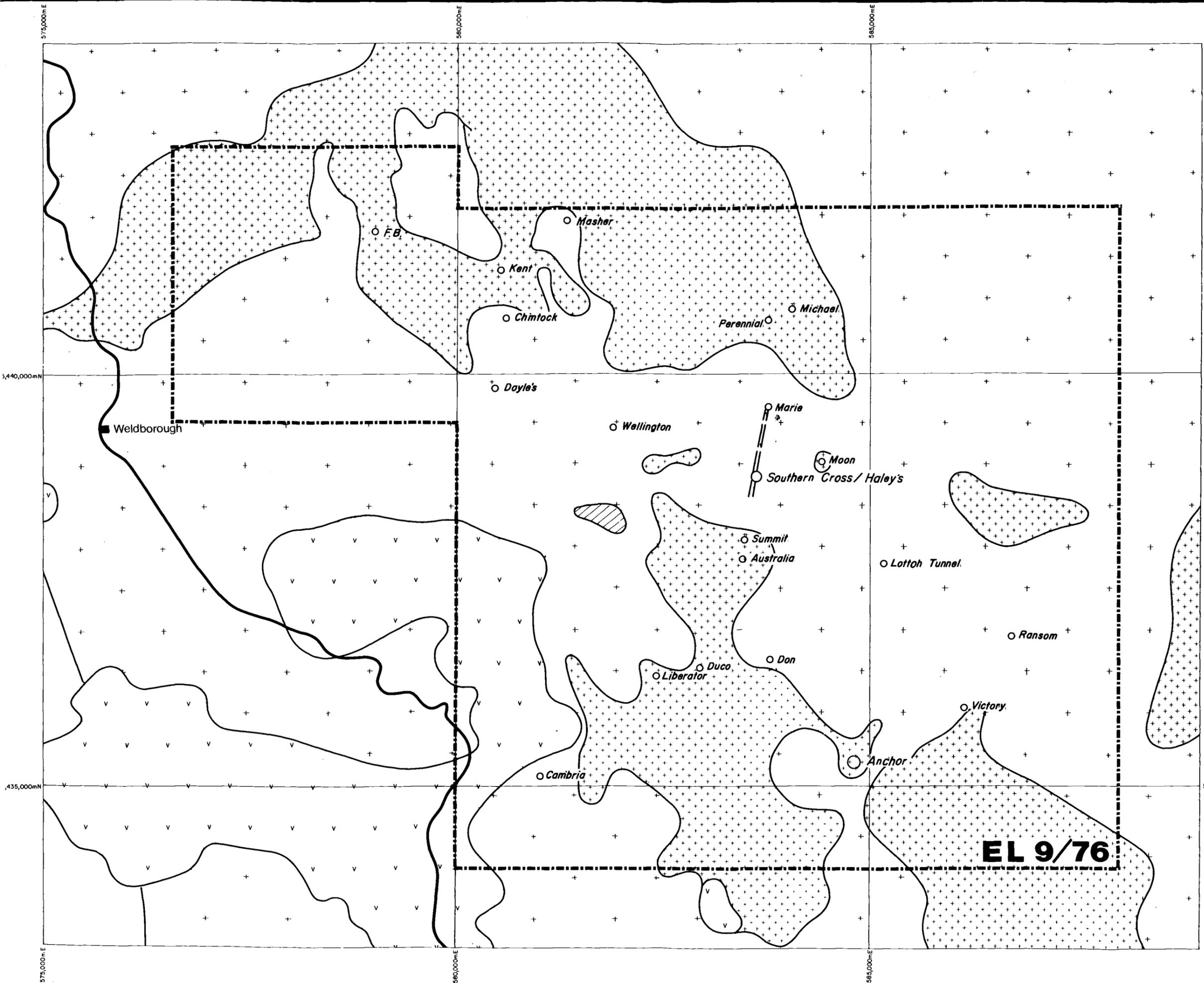
E.L. 6/78
KIBUKA MINES

E.L. 2/77
KIBUKA MINES

FLY-BY-NIGHT WORKINGS

HELLYER MINING & EXPL. PTY. LTD.
NORTH EAST TASMANIA
GEOLOGY & E.L. BOUNDARIES





- TERTIARY  Basalt
- PERMIAN  Shale
-  Biolite - muscovite granite
- UPPER DEVONIAN  Biolite granite / adamellite
-  Granodiorite
-  Abandoned primary tin workings

HELLYER MINING & EXPL. PTY. LTD

TASMANIA

E.L. 9/76

REGIONAL GEOLOGY

SCALE
metres 0 500 1000 2000metres
1:25,000