

000

895001

5 JAN 1982

J of M	CD	CS	E.O.	D.S.M.E.
Received			- 5 JAN 1982	
Answered			E & IL	
DEPT. OF MINES				P.H.
REF. No. 110/82				

DKSG

MICROFILMED

Aberfoyle Exploration Pty. Ltd.

Tasmanian Exploration Proposals

1982

OPEN FILE

82-1679.

for The Director of Mines,
10th December, 1981.

AMG REFERENCE POINTS ADDED

TASMANIAN EXPLORATION PROPOSALS ... 1982ZEEHAN AREA

The principal objective is to continue to expand and assess the potential of the Severn-Montana-Golf Course cassiterite-sulphide mineralisation. Evaluation of other anomalies and tin occurrences with the Consolidated Lease will continue.

In the Donnellys area, detailed follow-up in the vicinity of a newly discovered sulphide-bearing gossan will identify drill targets for Sn, WO_3 mineralisation of the St. Dizier type.

MEREDITH AREA

Target definition of the Mt. Youngbuck skarn is now at a sufficiently advanced stage to warrant sub-surface evaluation by diamond drilling for Sn, WO_3 mineralisation. Extensions to the existing grid will allow target definition to continue over a greater area for sulphide cassiterite mineralisation of the Cleveland type. Reconnaissance mapping and stream sediment sampling will be carried out in the remaining prospective areas of the licence.

002

QUE RIVER AREA (Mackintosh - Hatfield)

The objective is to drill test targets for massive base metal sulphides in the '10600N' area and at the 'Amoeba' Anomaly after further target definition by detailed I.P. geophysics and geochemistry.

WELDBOROUGH AREA

Tin in greisen sheets of the Anchor type.

GENERAL

Joint Ventures; including Sterling Valley (EZ/Getty) Marionoak (Shell)
Mount Lindsay (Renison/Geopeko) and Mackintosh East (Geopeko).

Table

ESTIMATED EXPENDITURE 1982

<u>TITLE</u>	<u>ABERFOYLE</u>	<u>OTHER COMPANIES</u>
Aberfoyle 100%:	\$265,000	
Joint Ventures:	<u>\$829,500</u>	<u>\$346,000</u>
	<u>\$1,094,500</u>	<u>\$346,000</u>
.... <u>TASMANIAN TOTAL FOR 1982:</u>		<u>\$1,440,500</u>

SCHEDULE OF EXPLORATION LICENCES HELD IN TASMANIA

004

NAME	LICENCE NO.	OWNERSHIP	GRANTED	AREA	EXPENDITURE PROJECT TOTAL TO NOV 17, 1981	RATE PER SQ. KM/YEAR	EXPENDITURE PROJECT YEAR TO NOV 17, 1982	ESTIMATED EXPENDITURE FOR 1982	
								OTHER CO.	ABERFOYLE
Meredith	EL 16/78	Aberfoyle 100%	18/10/78	225 sq.kms.	\$302,468	\$448	\$95,524		\$125,000
Hatfield	EL 15/73	Aberfoyle 100%	25/06/73	65 sq.kms.	\$443,203	\$802	\$58,913		\$80,000
Weldborough	EL 19/78	Aberfoyle 100%	6/02/79	96 sq.kms.	\$35,175	\$122	\$13,840		\$60,000
Mackintosh	EL 2/70	Aberfoyle 90% Paringa 10%	19/01/70	174 sq.kms.	Ab. \$357,053 Par. \$6,463	\$174	\$64,631	\$9,000	\$81,500
Mackintosh East	EL 2/70	Aberfoyle 40% Geapeko 60% ultimate	19/01/70	58 sq.kms	Geo. \$108,050	\$155	\$45,000	\$120,000	
Queen Hill	EL 47/71	Gippsland 30% Aberfoyle 70% ultimate (Tenements held by Gippsland)	21/12/71	122 sq.kms	\$473,063	\$387	\$51,198		\$75,000
Sterling Valley	EL 4/73	E.Z./Getty 80% Aberfoyle 20% ultimate	8/03/73	33 sq.kms	Ab. \$141,000 E.Z. \$257,085	\$1340	\$73,527	\$50,000	
Marionak	EL 22/74	Shell 50% Aberfoyle 50%	26/02/75	37 sq.kms	Ab. \$51,005 Sh. \$60,000	\$428	\$51,741	\$50,000	
Mt. Lindsay	EL 2/63 ML's 62M/63 63M/63	Renison/CGFA 60% Paringa 23.84% Aberfoyle 16.16%	1/04/63	90 sq.kms	\$1,417,837 (includes Ab \$450,000 for 1972)	\$850	* \$160,000	* \$117,000	* \$23,000
Queen Hill CML	CML 36M/81	Gippsland 30% Aberfoyle 70% ultimate		564 ha.	\$2,259,109 (includes \$105,000 Gippsland)		\$497,972		\$650,000
Cleveland	FL 1/63	Cleveland 100%	11/02/63	47 sq.kms	**				

* ESTIMATE BASED ON JULY 1, 1981 - JUNE 30, 1982 PROPOSAL.

** DETAILS NOT AVAILABLE AT HAWTHORN EAST.

895005

Severn - Montana - Golf Course

\$497,972 in 1981

The 1981 drilling program at Severn and Montana was designed to continue delineation of gross tin resources in a 25-50m thick 0.2-1% Sn cassiterite-sulphide stockwork zone at the contact of Cambrian and Upper Proterozoic sediments.

Significant intersections were:-

G72 38.2m of 0.48% Sn incl. 12.0m of 1.37% Sn

G74 26.0m of 0.66% Sn incl. 7.3m of 1.99% Sn

G78 17.7m of 1.41% Sn

There is now in sight a resource of 8 Mt at 0.5% Sn including 2-3 Mt at 1% Sn with potential for further improvement.

Intersections of dolomite hosted massive sulphides at Montana suggest greater similarity with Renison style mineralisation than previously envisaged (vide G78).

Ore characterisation and flotation studies were conducted on drill core from Queen Hill and Severn.

In summary - An integrated HM - FLOTATION - GRAVITY - MATTE FUMING plant in which component systems are not overstressed could provide overall recoveries at 75%.

The drilling results and metallurgical results combine to indicate that Queen Hill - Severn - Montana is in the upper echelon of new tin prospects on a world scale.

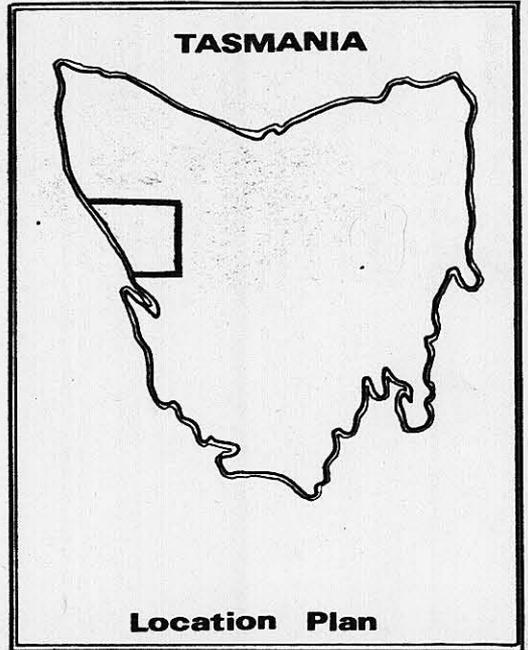
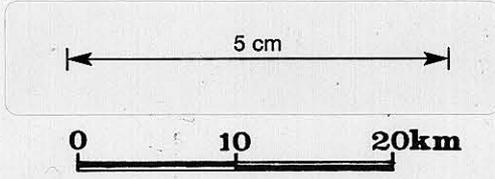
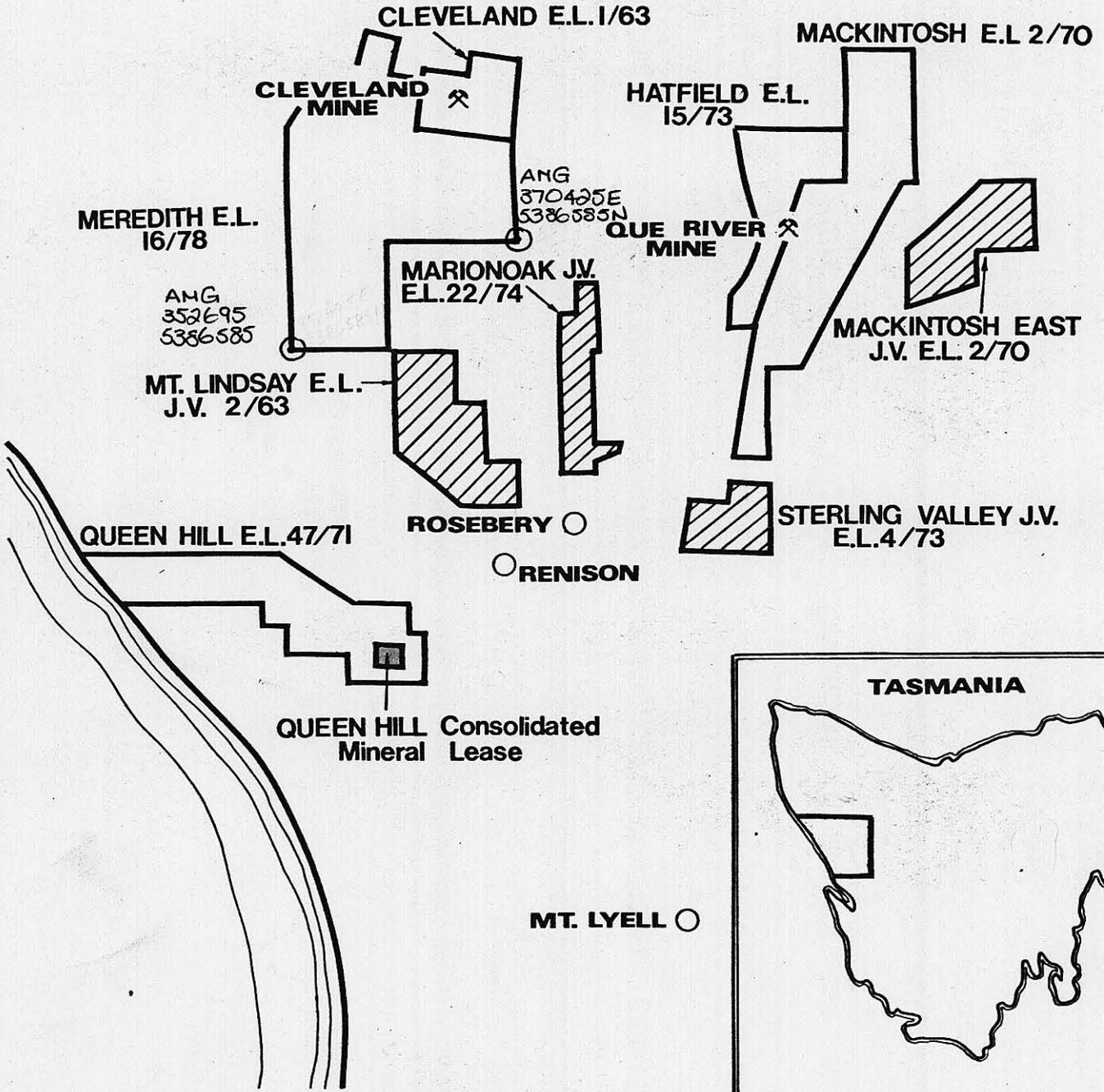
.../2

In the next 6 months 3000m of drilling in approximately 10 holes will be completed to further delineate the higher grade mineralisation and research the geological environment.

Metallurgical research will continue.

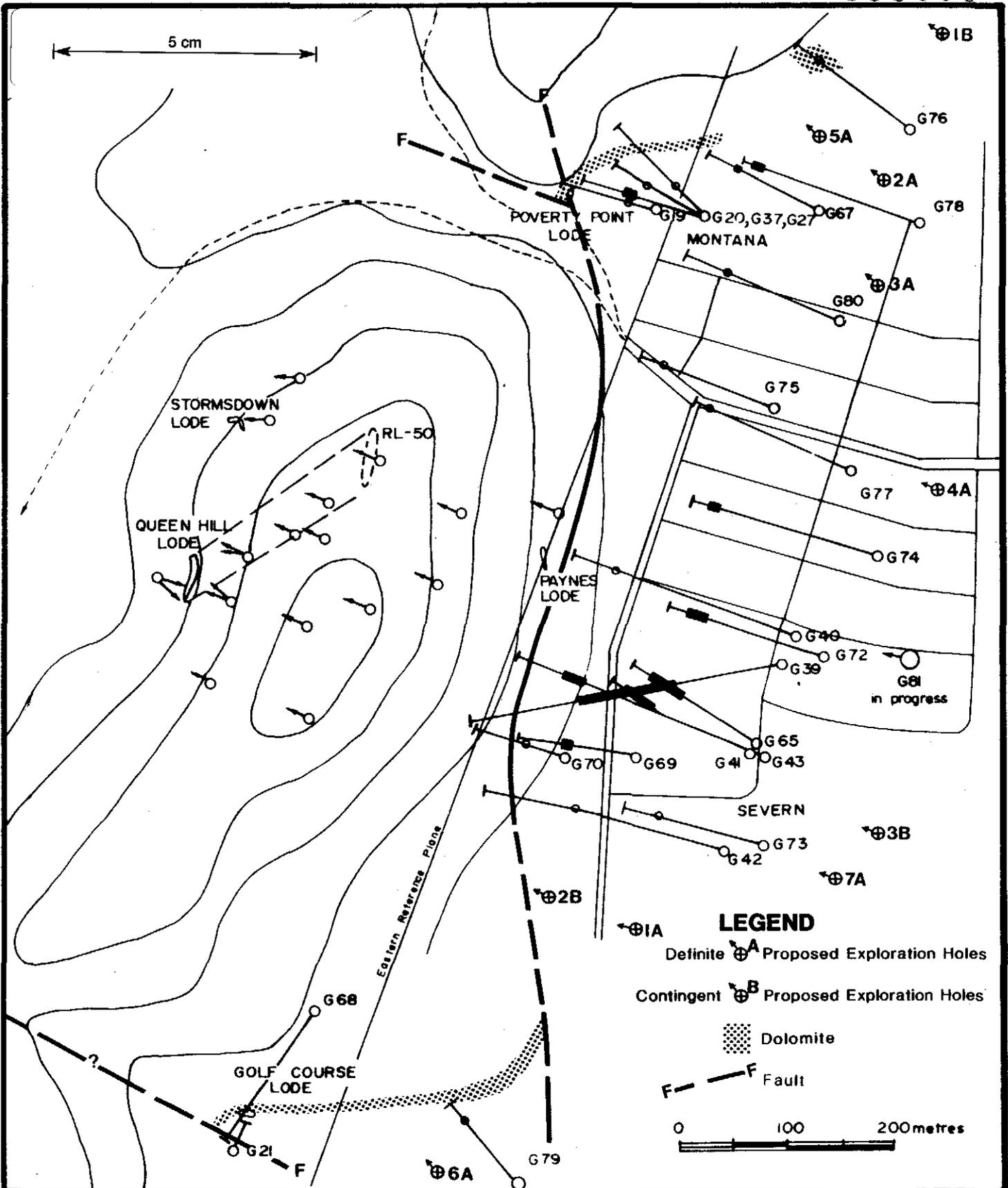
The additional data to come from these programs will aid refinement of mining parameters which are now being assessed.

004



Aberfoyle Exploration Pty Ltd

Drawn:	NORTH WEST TASMANIA EXPLORATION LICENCES	Location code:
Traced:		Date:
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Revised by: Date:		Plate No:



LEGEND

- ⊕A Definite Proposed Exploration Holes
 - ⊕B Contingent Proposed Exploration Holes
 - ▨ Dolomite
 - F Fault
- 0 100 200metres

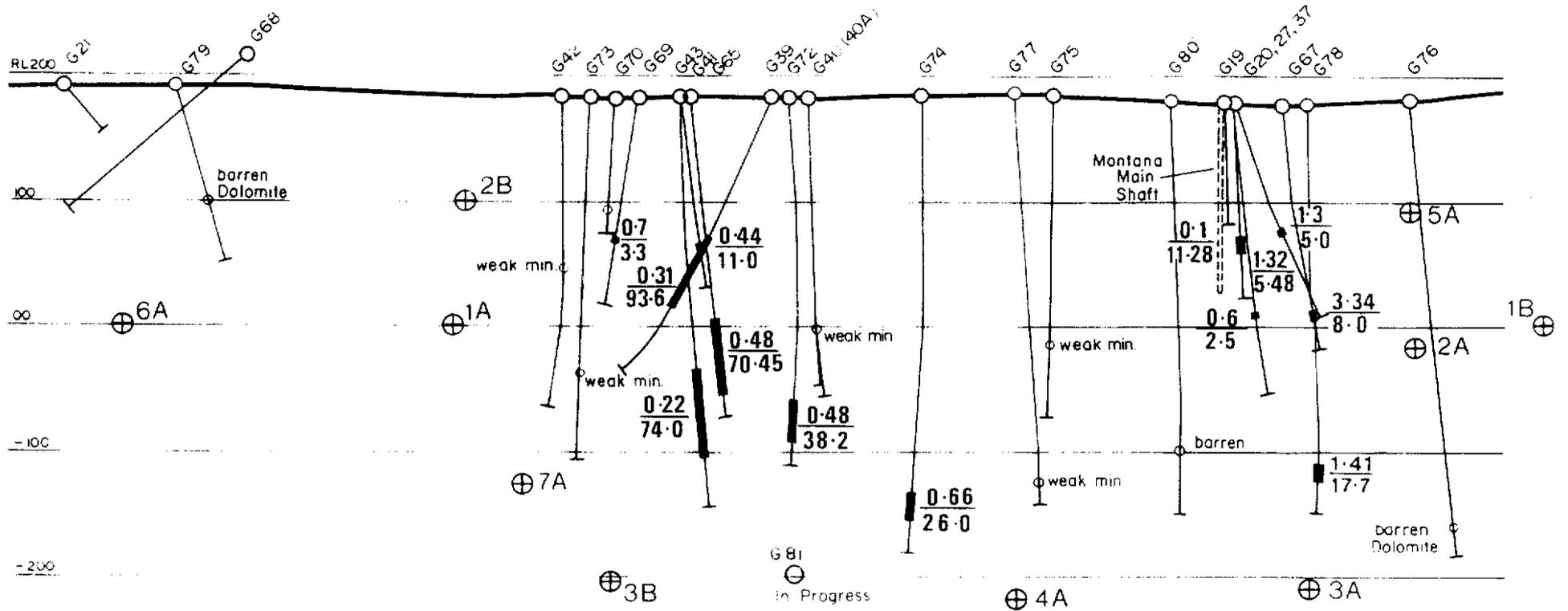
Aberfoyle Exploration Pty Ltd

Geology:	NORTH WEST TASMANIA	Location code:
Drawn:	SUMMARY PLAN	Date: August, 1981
Traced: J. L. R. LMH	SEVERN - MONTANA - GOLF COURSE AREAS	Scale As shown
Checked:	1981 - 82 DRILL PROGRAMME	Plate No
Revised by: CHY Date: Nov. 81		QH 172

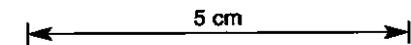
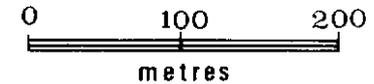
GOLF COURSE

SEVERN

MONTANA



- $\frac{\% \text{ Sn}}{\text{metres}}$ | All Cassiterite - Sulphide mineralisation
- DEFINITE ⊕^A Proposed Exploration Hole
- CONTINGENT ⊕^B Proposed Exploration Hole



SUMMARY LONGITUDINAL PROJECTION

2680

2900

3000

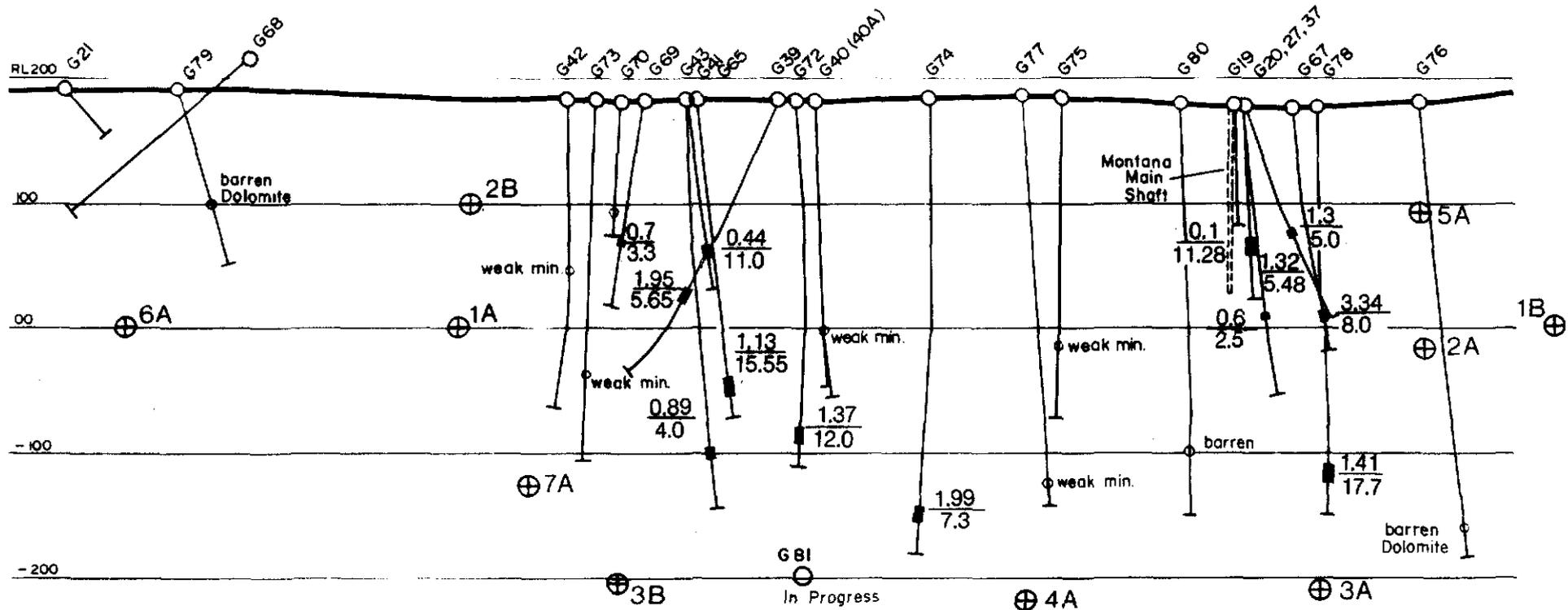
3225

3500

GOLF COURSE

SEVERN

MONTANA



$\frac{\% \text{ Sn}}{\text{metres}}$

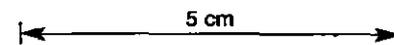
High Grade Cassiterite - Sulphide mineralisation

DEFINITE ⊕^A

Proposed Exploration Hole

CONTINGENT ⊕^B

Proposed Exploration Hole



SUMMARY LONGITUDINAL PROJECTION

011
Queen Hill EL 47/71

\$51,198 in 1981

Tin in metasomatically replaced carbonate horizons.

The discovery of a previously unknown gossan at Donnellys (3250 ppm Cu, 1750 ppm Pb, 2.6% Zn, 845 ppm WO_3 and 40 ppm Sn) demonstrates a potential for further tin-sulphide mineralisation in Proterozoic rocks adjacent to the northern contact of the Heemskirk granite.

It is anticipated that diamond drilling will follow target definition by a subcrop (power auger) geochemical sampling programme.

A north-west trending zone of DIGHEM and magnetic anomalies in the TASMAN River area will be assessed by geological, geochemical and geophysical surveys.

A UTEM anomaly in the area immediately to the south-west of Queen Hill will be further defined.

012

895013

TITLE: QUEEN HILL E.L. 47/71

TARGET: Sulphide-Tin Mineralisation in the Precambrian/Cambrian Sediments

1980-1981 OBJECTIVE: Follow-up of DIGHEM Anomalies in the St. Dizier and Far North-Western Part of the Licence

- WORK COMPLETED:
1. Grid Cutting
 2. Geological Mapping
 3. Limited Geochemistry
 4. Geophysics
 - A) Ground Magnetics
 - B) Ground E.M.
 - C) Reconnaissance I.P.

1981-1982 OBJECTIVES: To continue detailed follow-up of DIGHEM Anomalies in the North-Western part of the licence. To complete target definition at St. Dizier.

- WORK PROPOSED:
1. At Donnellys (DIGHEM Area 1)
 - A) Complete Gridding
 - B) Complete Ground Magnetics
 - C) Bombadier-Mounted Auger Sampling
 - D) Diamond Drilling (2 Holes to 200 M)
 2. At Tasman River (DIGHEM Area 2)

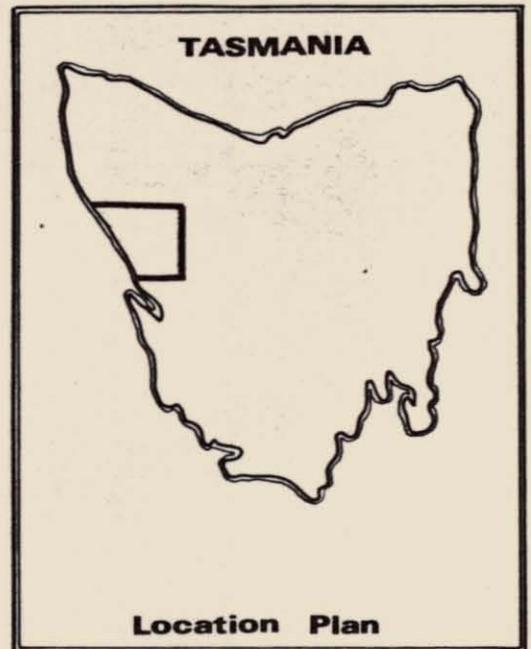
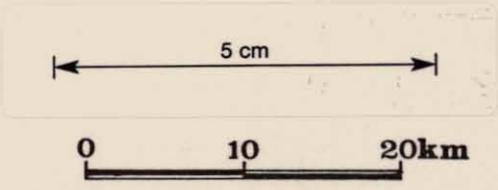
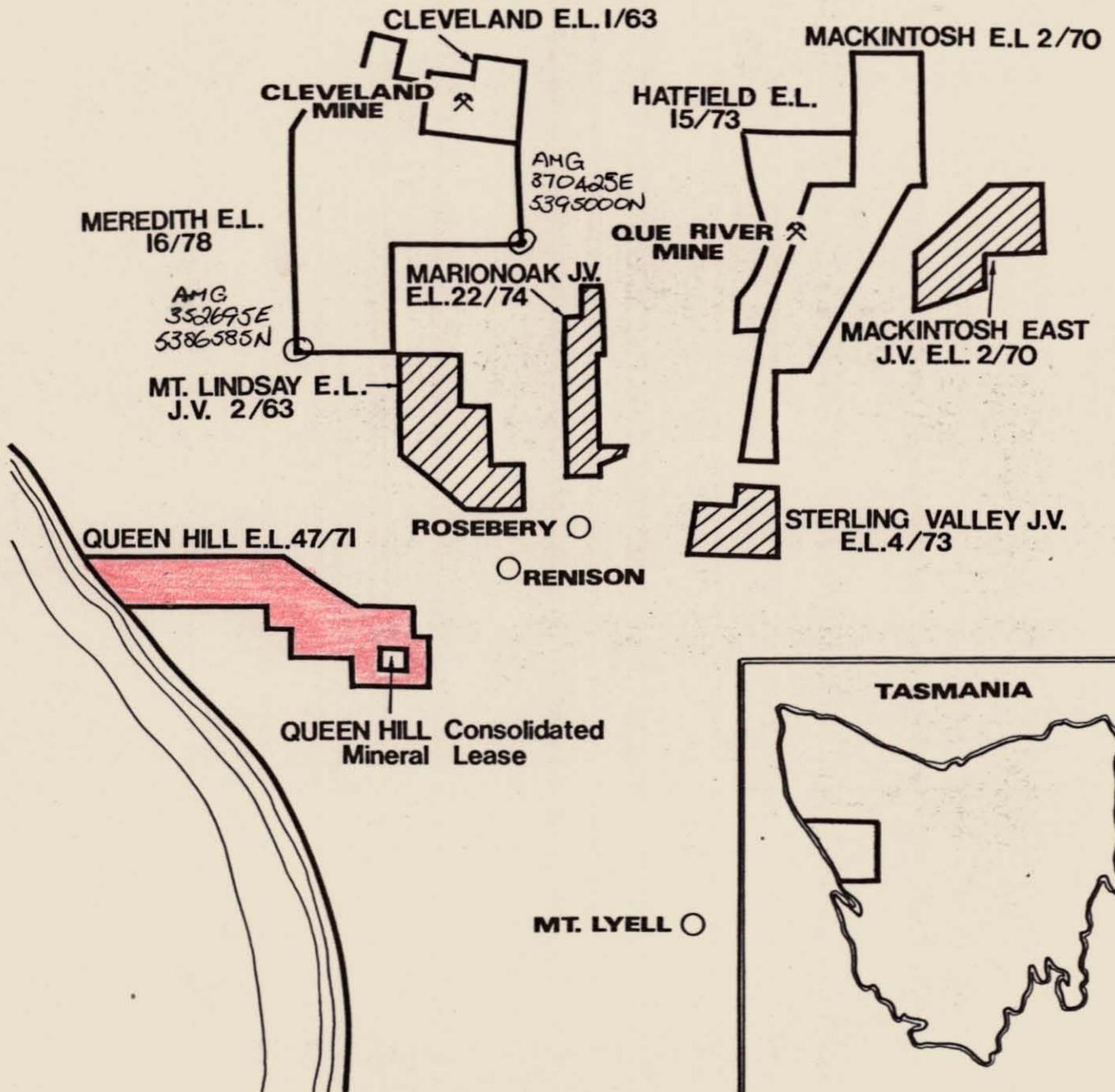
Evaluate Airborne Magnetic Anomalies

 - A) Reconnaissance Mapping and Geochemistry
 - B) Ground Magnetics and E.M.
 3. St. Dizier (DIGHEM Area 3)
 - A) Bombadier-Mounted Auger Geochemistry to close-off Anomalies partly defined last season.

012

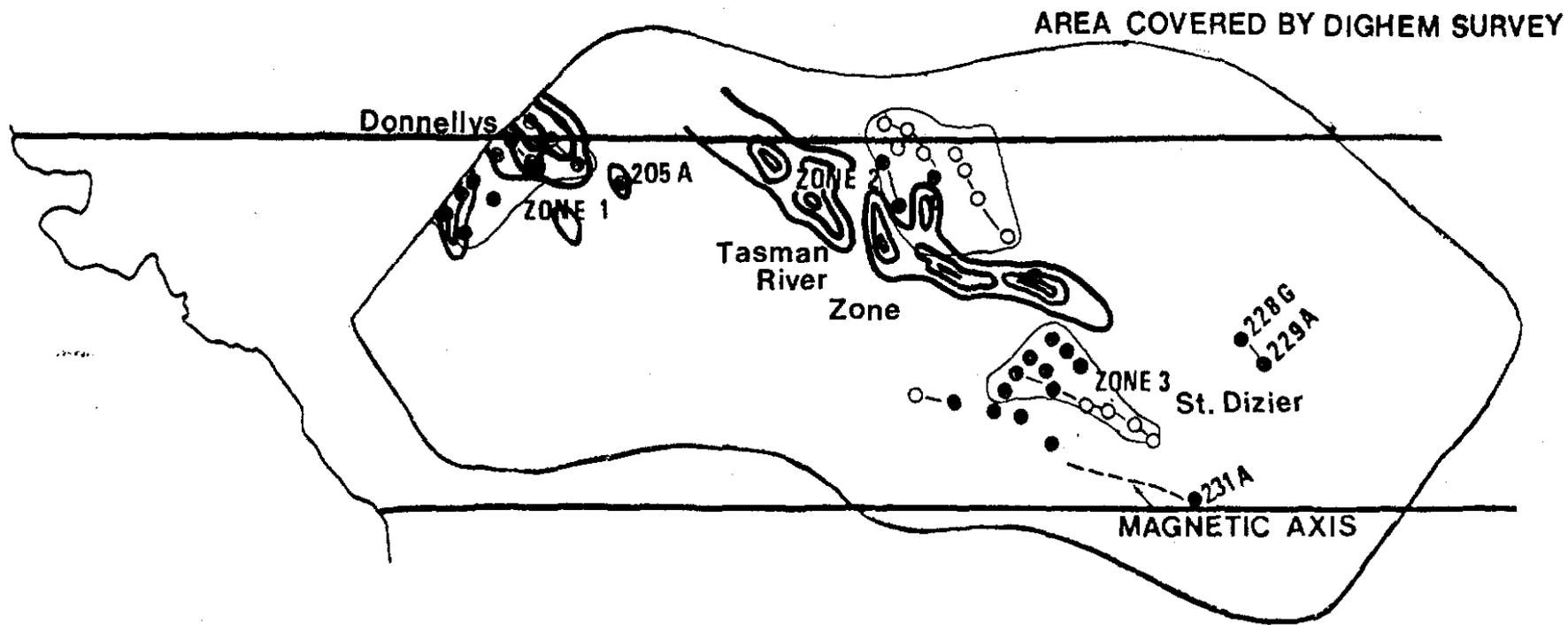
AMG REFERENCE POINTS ADDED

895014



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Revised by: Date:		Plate No:



AEROMAG. CONTOURS

● DIGHEM ANOMALIES FOR FOLLOW UP

○ NO FOLLOW UP

Queen Hill Licence

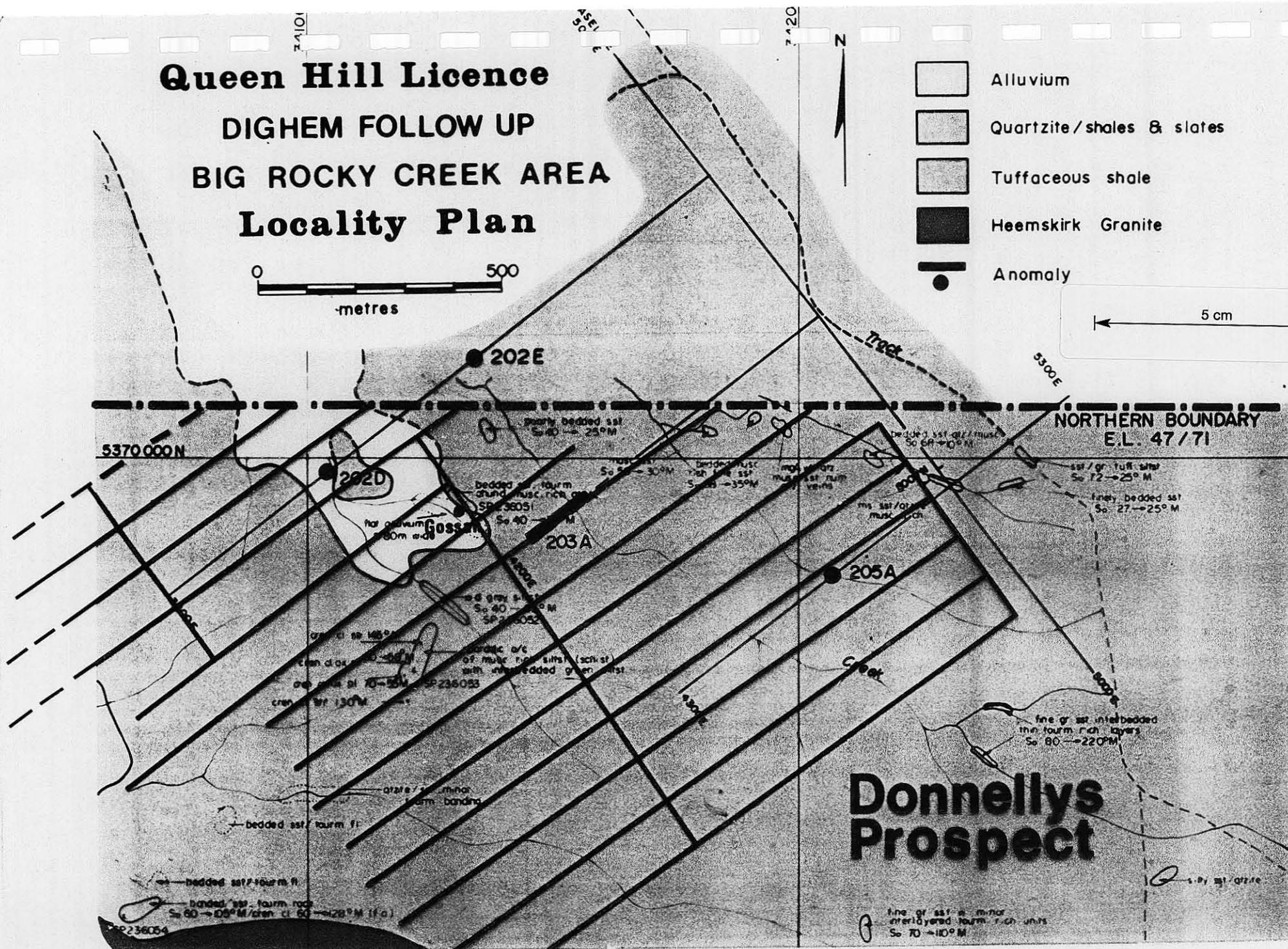
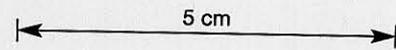
DIGHEM FOLLOW UP

BIG ROCKY CREEK AREA

Locality Plan

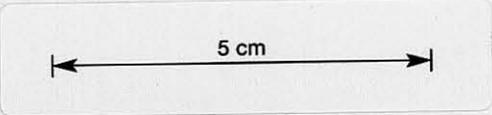


-  Alluvium
-  Quartzite/shales & slates
-  Tuffaceous shale
-  Heemskirk Granite
-  Anomaly



015

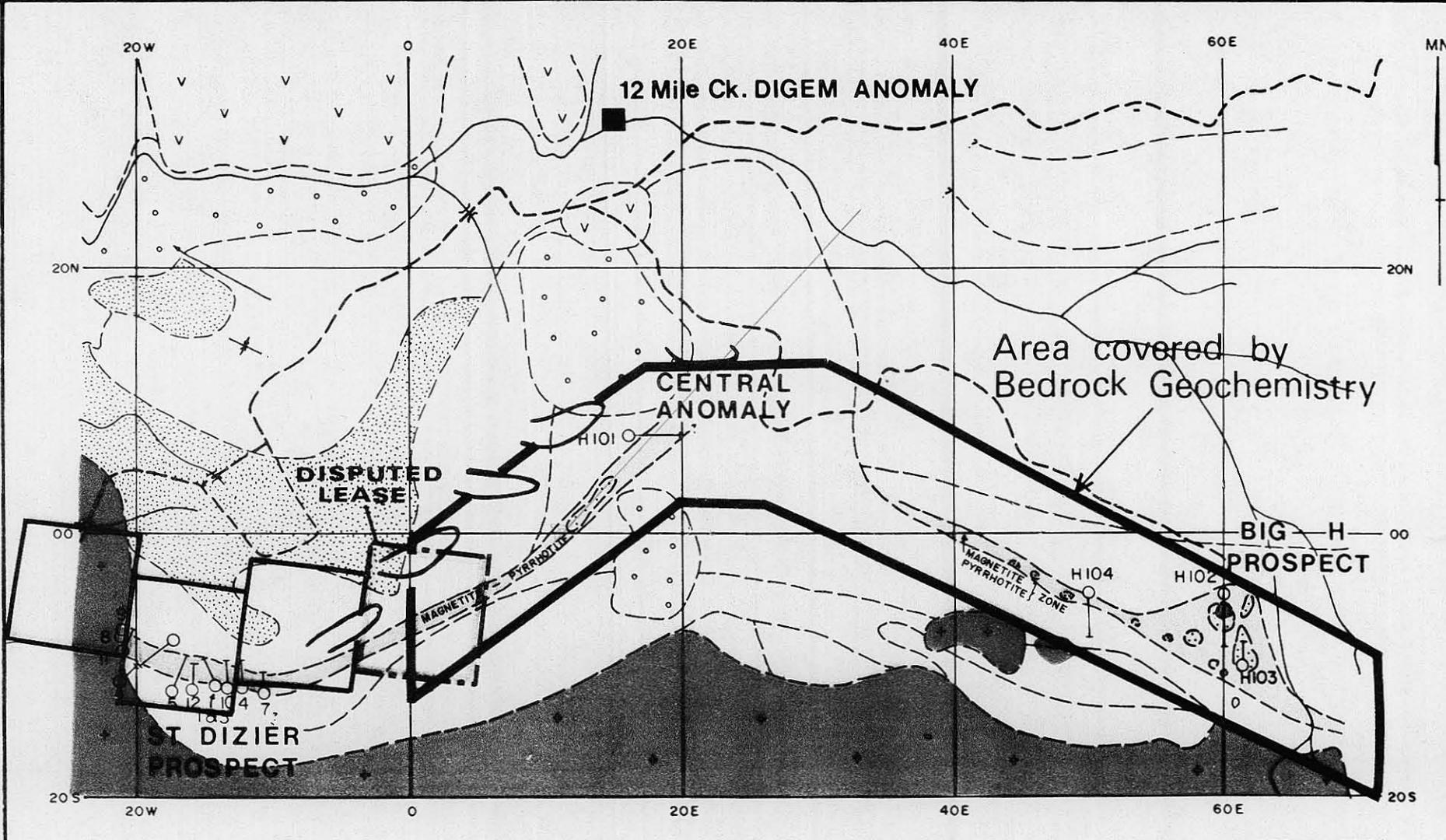
895016



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Aberfoyle Exploration Pty Ltd
 NORTH WEST TASMANIA
 QUEEN HILL E.L. 47/71
 ST. DIZIER AREA

Location code: K55/5/50
 Date: Feb 1979
 Scale: as shown



- TERTIARY
- V V Basalt
 - ° ° Gravel
- DEVONIAN
- + Granite
- CAMBRIAN (?)
- Magnetite rock

- PRECAMBRIAN
- Banded tourmalinised sediments
 - Quartzite & siltstone
 - Sandy quartzite
 - Chistalitic argillite



Open geochem. anomaly

895017

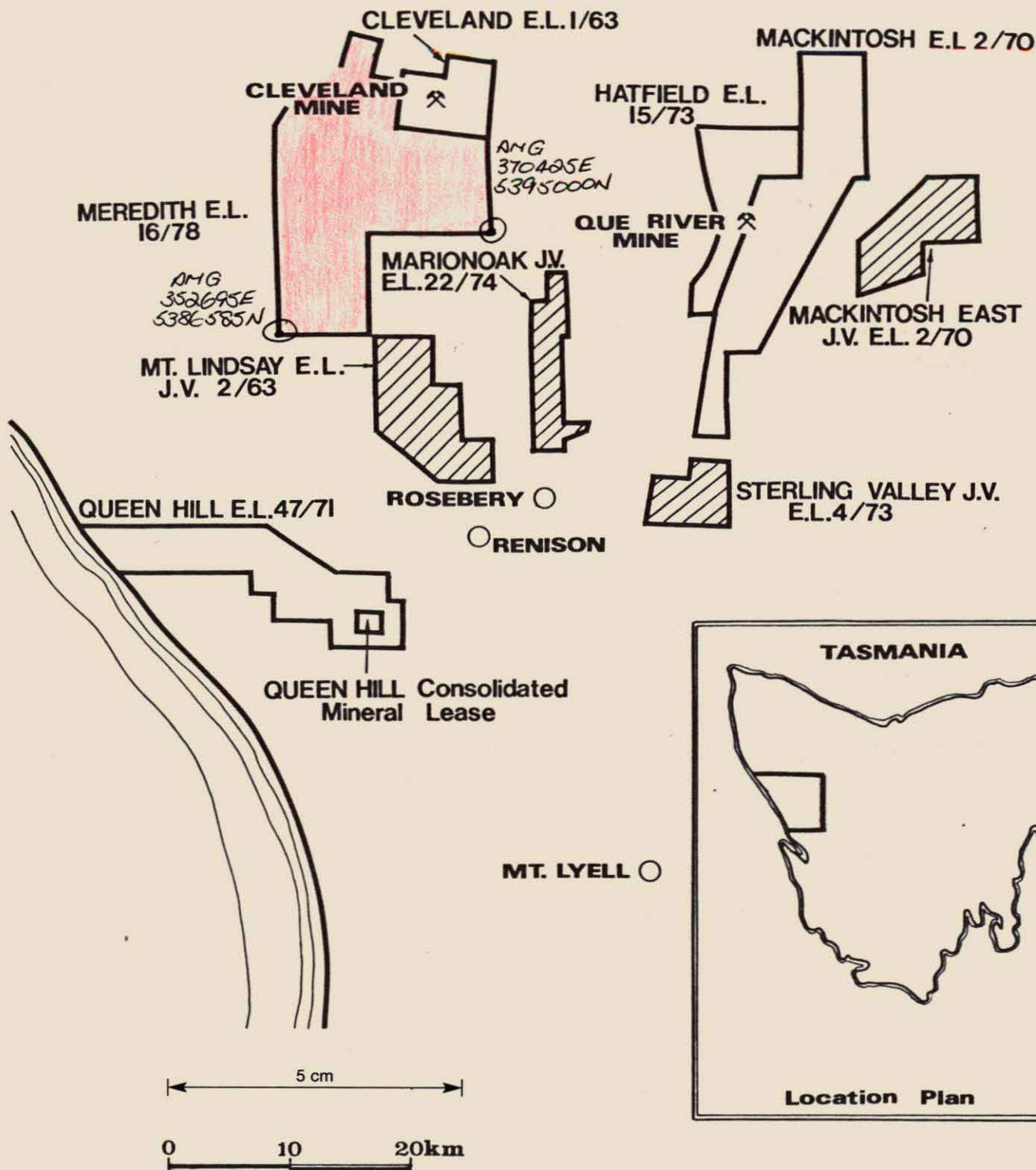
Meredith

\$95,524 in 1981

Tin-tungsten prospect located approximately 7 km S.W. of Cleveland.

Skarn development of a dolomite horizon immediately adjacent to the Meredith Granite. The skarn is anomalous for tin (to 1750 ppm Sn) and tungsten (to 1.09% WO_3). Target definition is well advanced and this summer we will test the zone with 4 x 150m diamond drill holes.

The skarn contains magnetite and some sulphides and is therefore manifest by magnetics and E.M. Extensions of the mineralised zone may occur as cassiterite-sulphide zonation further away from the granite based on the Cleveland model and extensions of detailed geology, geochemistry and geophysics are in hand.



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Drawn:	NORTH WEST TASMANIA EXPLORATION LICENCES	Location code:
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Revised by: Date:		Plate No:

TITLE:MEREDITH (SN, W)TARGET:

Skarn and Cleveland-Type Sn-W Mineralisation

1980-1981 OBJECTIVE:

To identify targets for drilling in the Mount Youngbuck and Circular Feature Areas.
To follow-up DIGHEM Anomalies.

WORK COMPLETED:

1. Gridding
2. Detailed Geological Mapping
3. Geochemistry
 - A) Soil Sampling
 - B) Rock-Chip Sampling
4. Geophysics - DIGHEM follow-up
 - A) Ground Magnetics
 - B) Ground E.M.
5. Access Road Construction Commenced

1981-82 OBJECTIVE:

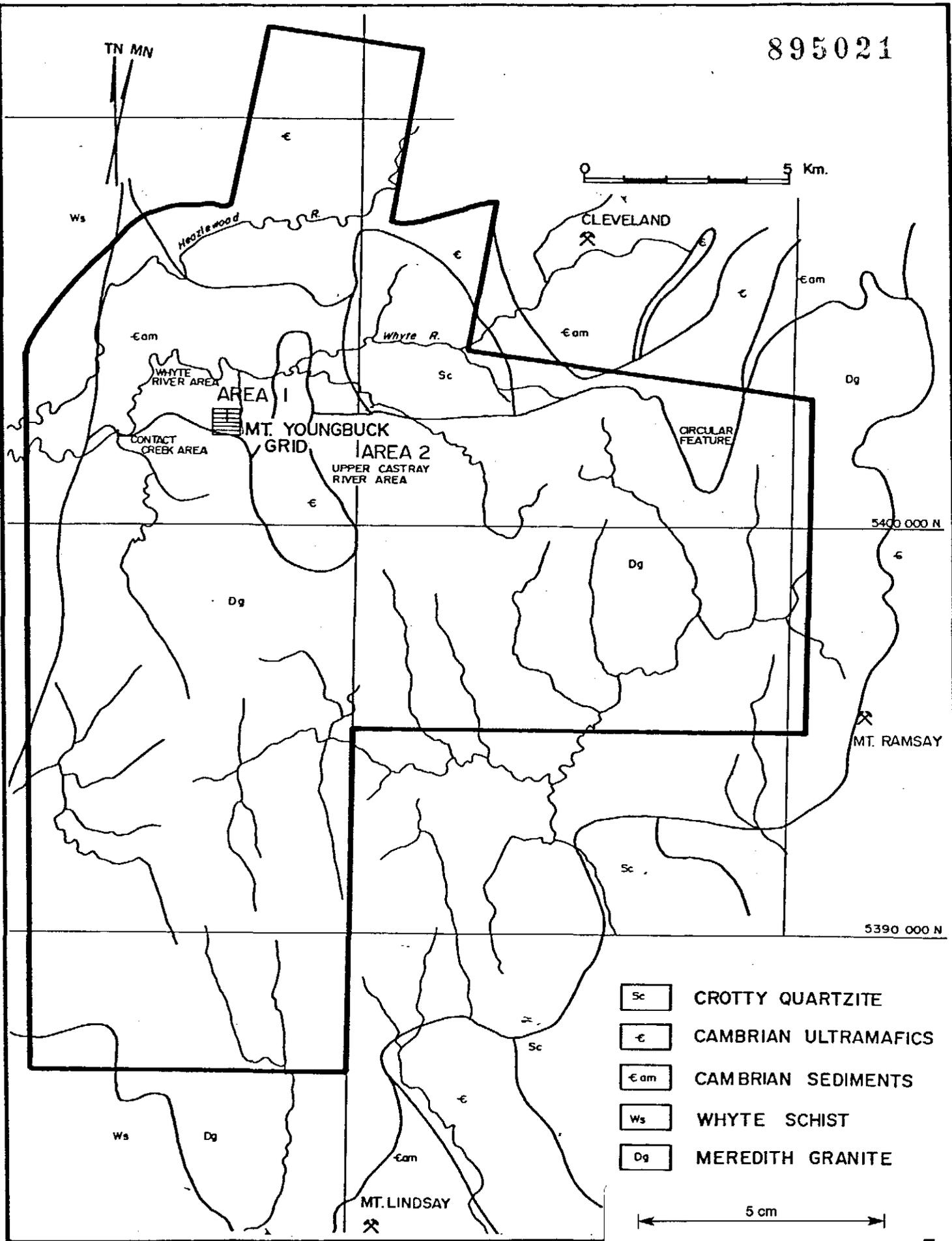
To test the Mt. Youngbuck skarn by diamond drilling and to extend the existing grid. To carry out regional reconnaissance in areas so far not entered, and to complete follow-up of anomalies located in previous seasons.

WORK PROPOSED:

1. Complete access road construction.
2. Mt. Youngbuck - 4 x 150 m diamond drilling programme due to commence December 1981.
3. Extend existing grid coverage at Mt. Youngbuck.
4. Regional stream sediment and reconnaissance mapping west of Betts Track.
5. Reconnaissance work within Ordovician - Silurian Quartzites and Limestones.
6. Alluvial Flat Area.
7. Castray River Granite - Base of slope follow-up.

020

895021



- Sc CROTTY QUARTZITE
- ε CAMBRIAN ULTRAMAFICS
- εam CAMBRIAN SEDIMENTS
- Ws WHYTE SCHIST
- Dg MEREDITH GRANITE

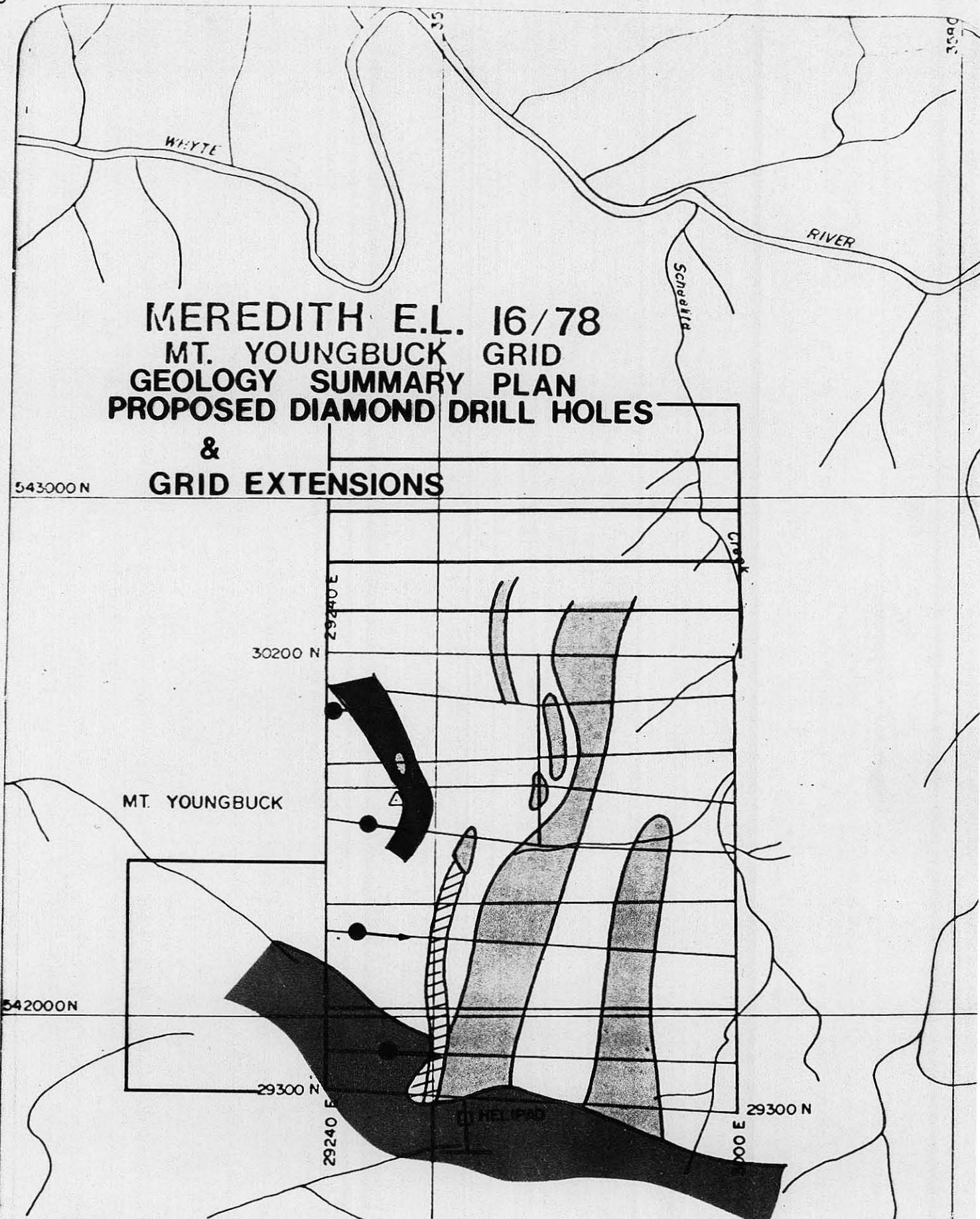
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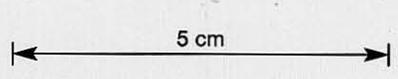
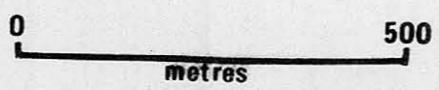
NORTH WEST TASMANIA
 MEREDITH E.L. 16/78
 PROPOSED WORK (1981/82) SEASON
 LOCATION PLAN

Location code:
 Date: April, 1981
 Scale: 1:125,000
 Plate No MER 23

MEREDITH E.L. 16/78
MT. YOUNGBUCK GRID
GEOLOGY SUMMARY PLAN
PROPOSED DIAMOND DRILL HOLES
&
GRID EXTENSIONS



-  DOLERITE
-  CHERTY SILTSTONE
-  GRANITE
-  SKARN
-  CAMBRIAN SEDIMENTS



022

Mackintosh - Hatfield

\$58,168 and \$58,913 respectively in 1981

Three coincident I.P. and geochemical targets have been identified in proximity (1.5-3 kms) to the Que River Mine.

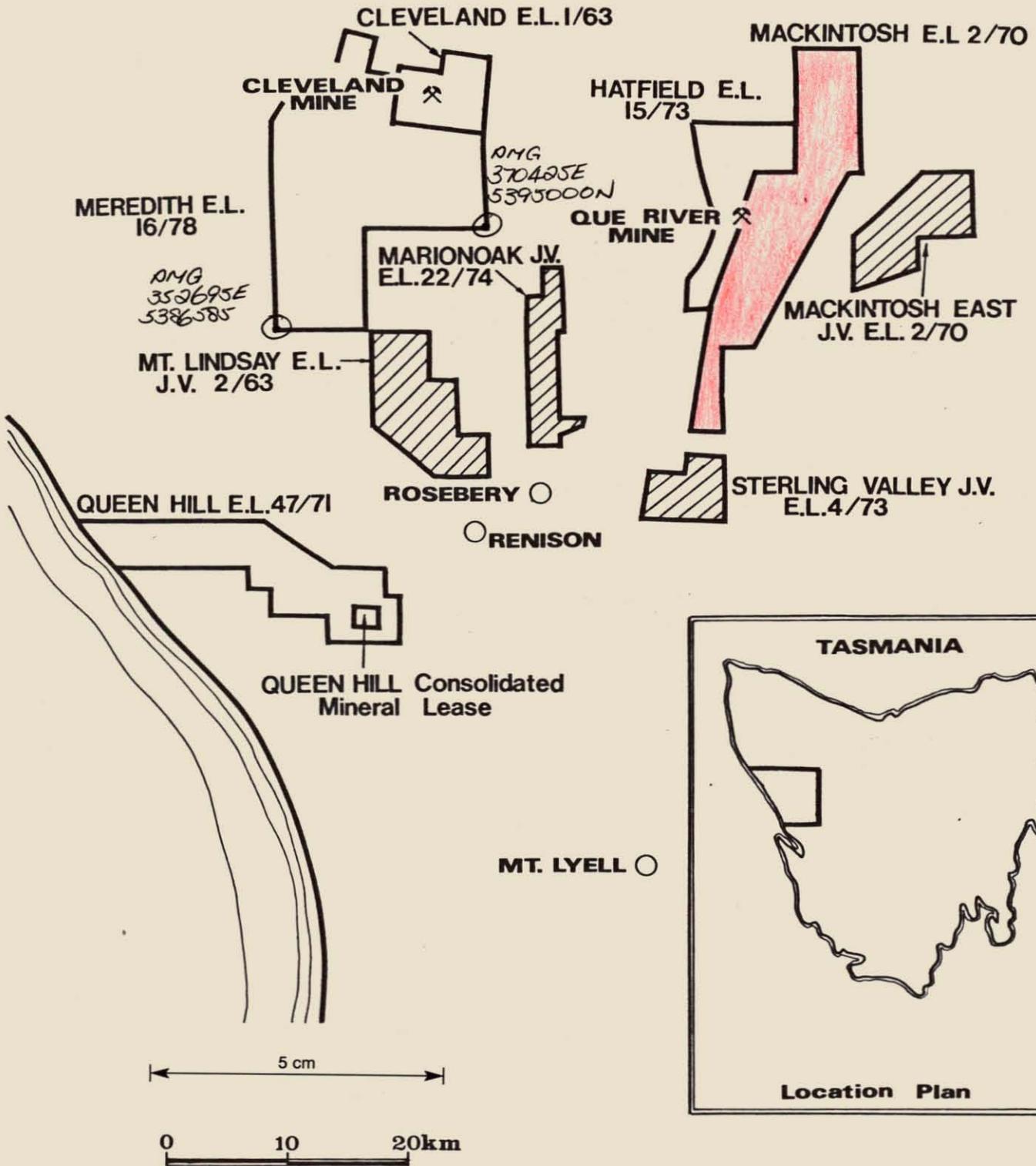
One is in the Hatfield licence 100% Aberfoyle and the two others are in the Mackintosh licence 90% Aberfoyle, 10% Paringa (contributing).

At Hatfield detailed subcrop geochemical sampling will be completed early this summer to define drill targets within a large I.P. anomalous zone. Orientation subcrop sampling using a power auger, at sites where previous hand sampling indicated trace values only, shows the I.P. anomaly represents a formation with a pyrite content of 20% or more, with base metal values up to 425 ppm Pb and 530 ppm Zn.

At Mackintosh I.P. and soil geochemical sampling have defined a further anomalous zone within the Que River Slates immediately adjacent to the prospective volcanic stratigraphy which hosts the other newly defined coincident I.P. and soil geochemical (>250 ppm Pb) anomaly.

Early in the summer season these anomalies will be detailed by I.P. and soil geochemistry to provide better definition of drill targets and two drill holes for 400 metres are proposed.

023



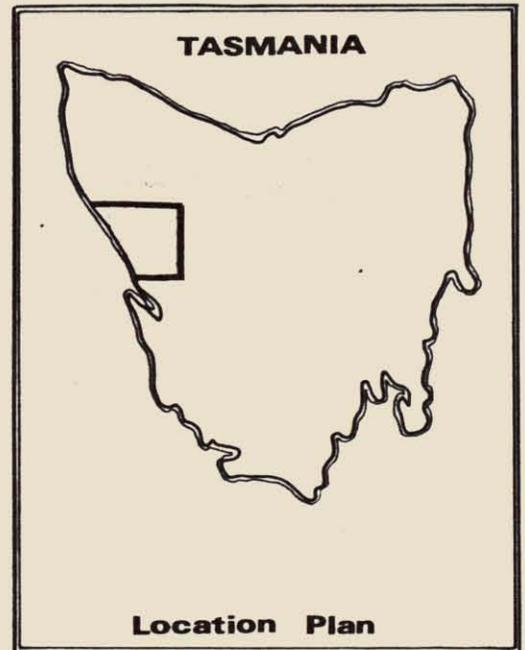
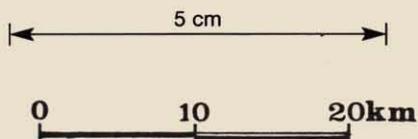
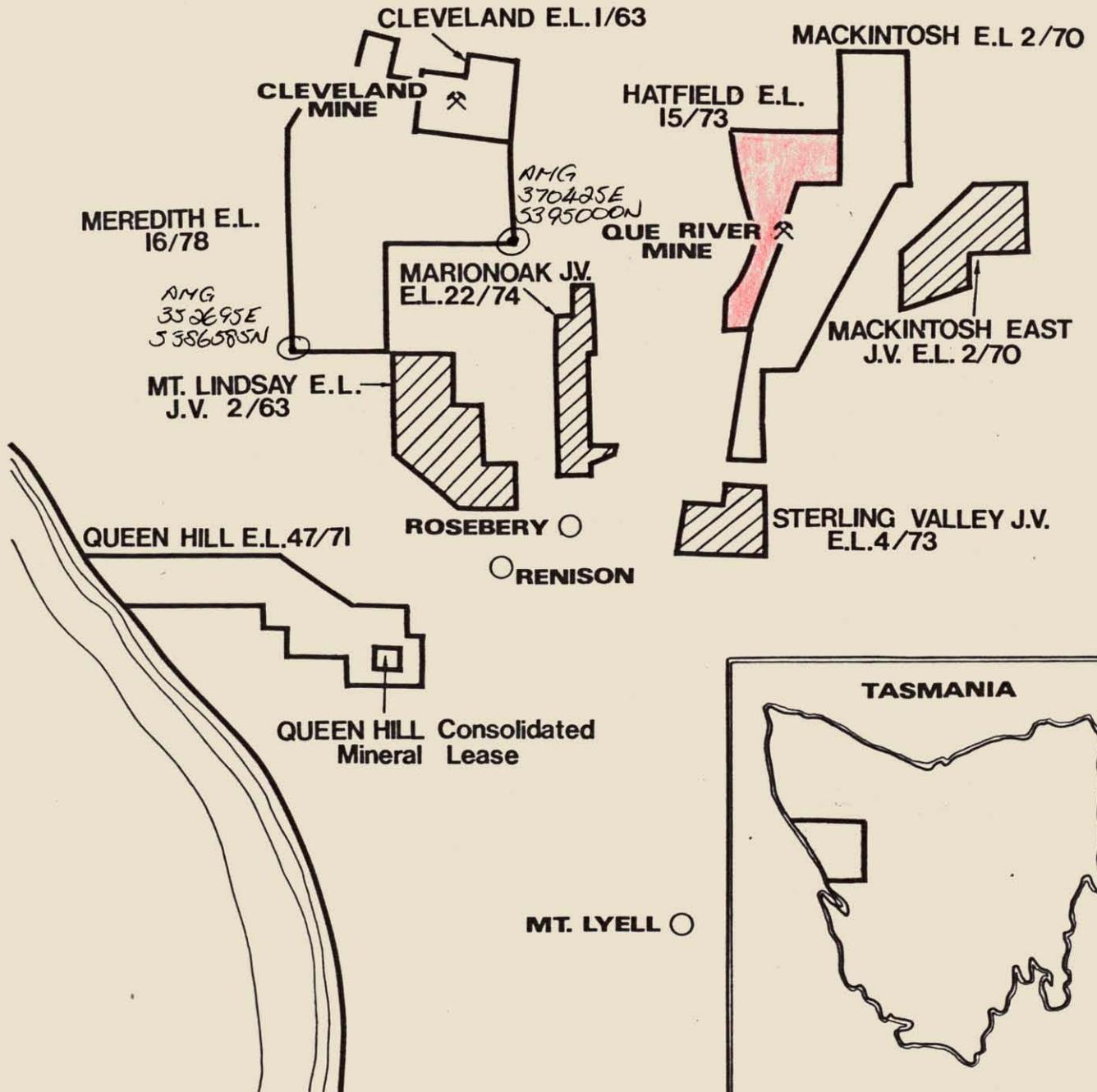
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Revised by: Date:

NORTH WEST TASMANIA
EXPLORATION LICENCES

Location code:
Date:
Scale:
Plate No

024



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Revised by: Date:		Plate N°:

025

TITLE: MACKINTOSH /HATFIELD (Cu, Pb, Zn)

895026

TARGET: Volcanogenic Cu-Pb-Zn deposits in the Mount Read Volcanics

1980-81 OBJECTIVE: To explore a belt of prospective acid volcanics west and north-west of the Que River Mine.

- WORK COMPLETED:
1. Line cutting and gridding - 36 line/km
 2. Detailed geological mapping.
 3. Soil sampling at 10 m intervals along grid lines.
 4. I.P. geophysics
 - A) 18 line/km with 100 m dipoles
 - B) 3.5 line/km with 50 m dipoles in the 10,600N area (programme postponed due to adverse weather conditions).

1981-82 OBJECTIVES:

1. MACKINTOSH To complete target definition in the 10,600N area by detailed I.P. geophysics and mapping, then to test targets by diamond drilling contingent of success. To extend the detailed mapping and soil sampling to evaluate the Shale/Andesite contact region.
2. HATFIELD: To complete target definition of the "Amoeba" Anomaly by bombardier-mounted auger sampling. To test targets by diamond drilling contingent of successful target definition.

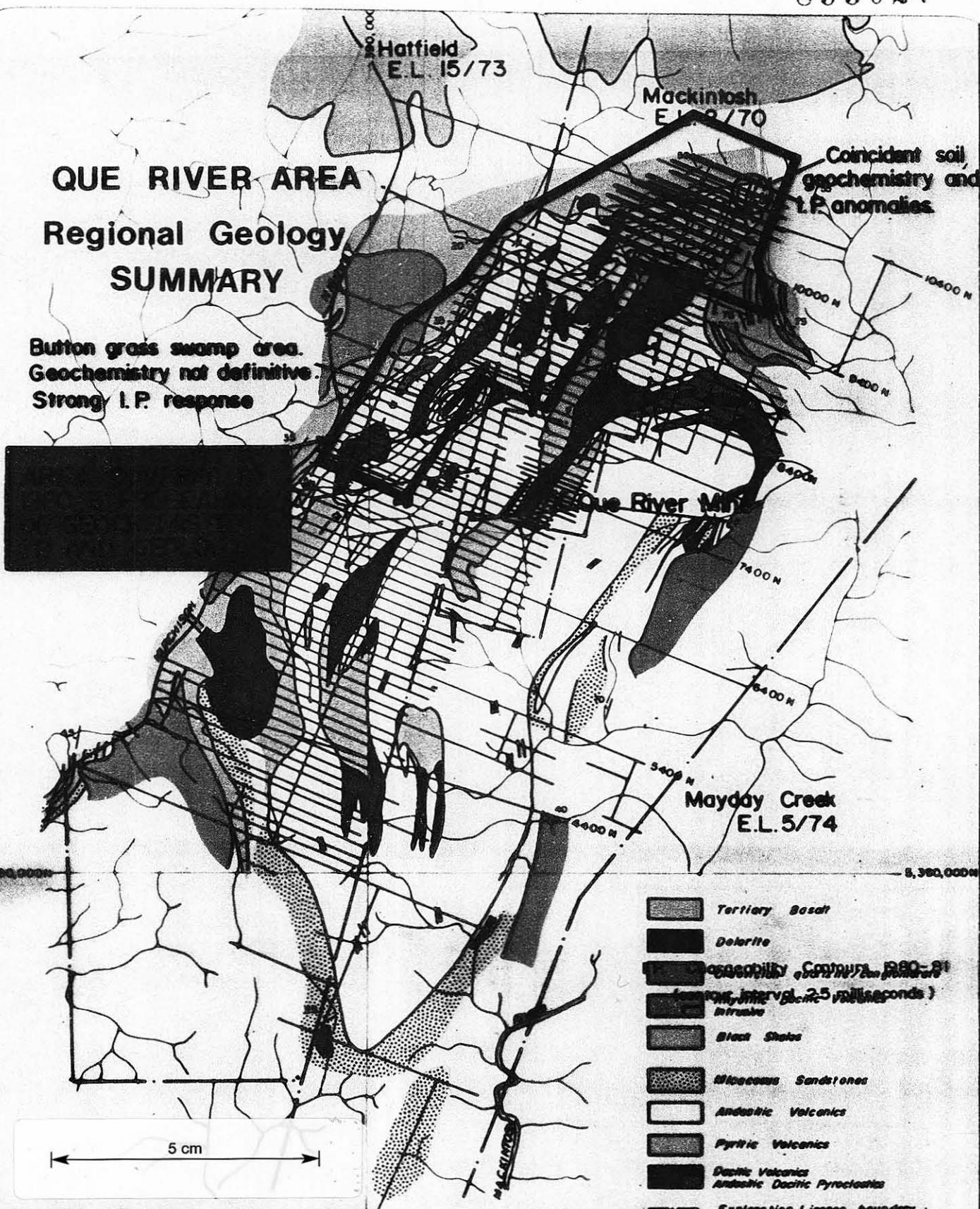
WORK PROPOSED:

1. MACKINTOSH
 - A) Complete 50 m dipole I.P. survey (9.5 line km)
 - B) Diamond Drilling (2 holes to 200 m)
 - C) Extend grid based field work in the 10,600N area to evaluate Shale/Andesite contact region.
 - D) Access track construction.
2. HATFIELD
 - A) Bombardier-mounted auger sampling (approx 120 holes).
 - B) Reconnaissance I.P. geophysics.
 - C) Diamond drilling (2 holes to 200 m) contingent of success.

QUE RIVER AREA Regional Geology SUMMARY

Button grass swamp area.
Geochemistry not definitive.
Strong I.P. response

Coincident soil
geochemistry and
I.P. anomalies.



- Tertiary Basalt
- Dolerite
- Accessibility Contours 1980-81
(contour interval 25 milliseconds)
- Intrusive
- Black Shale
- Miscellaneous Sandstones
- Andesitic Volcanics
- Pyritic Volcanics
- Dacitic Volcanics
Andesitic Dacitic Pyroclastics
- Exploration Licence boundary
- Aberfoyle Grid

1982 I.P.

A Aberfoyle Exploration Pty Ltd

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NORTH WEST TASMANIA
Mackintosh West / Hatfield Licence Areas

Location code:	
Date:	May, 1981
Scale:	1:50,000
Plan No:	

027

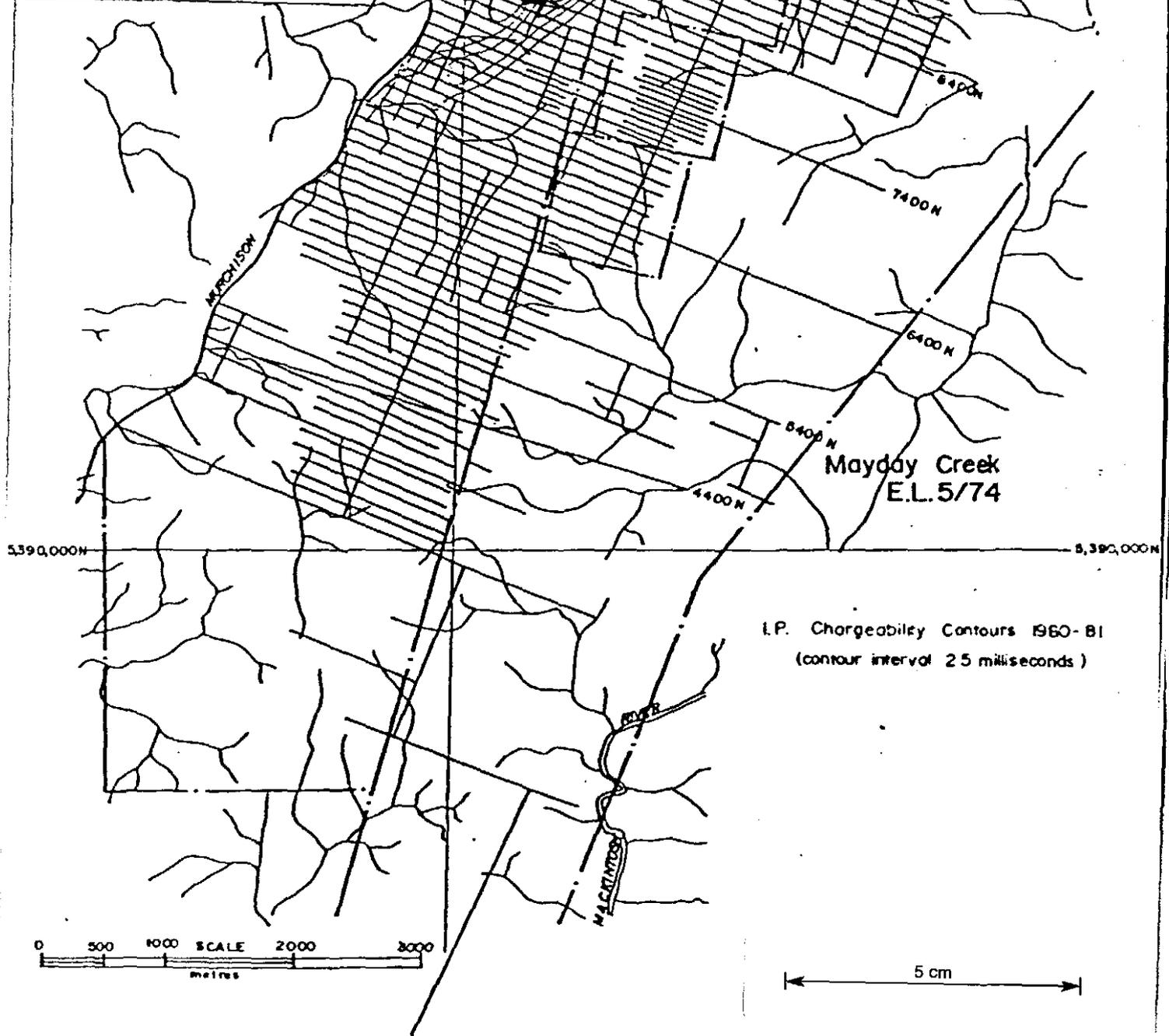
895028

Hotfield
E.L. 15/73

Mackintosh
E.L. 2/70

AMOEBA ANOMALY

For detail: See Plates 46B



I.P. Chargeability Contours 1960-B1
(contour interval 25 milliseconds)

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NORTH WEST TASMANIA
Mackintosh West / Hatfield Licence Areas

Location code:	
Date:	May, 1981
Scale:	1:50,000
Plate No:	

Weldborough EL 19/78

\$13,840 in 1981

Tin in greisen sheets of the Anchor type within the Blue Tier Batholith, N.E. Tasmania.

Recent research findings and compilation of previous data incorporating the Anchor model has shown tin rich greisen sheets appear related to highs within sub-horizontal sheets of "tin granite".

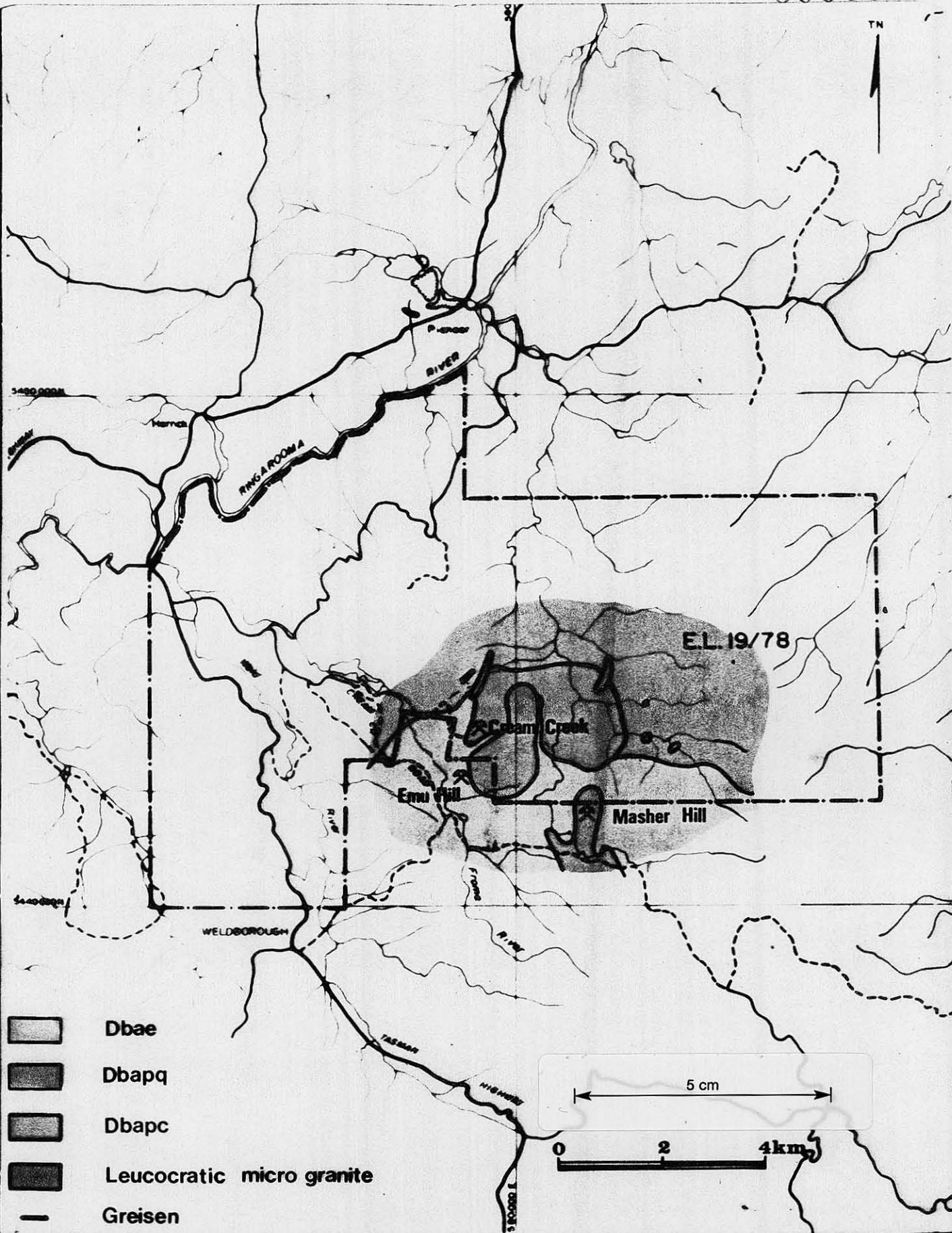
When there is a cover of adamellite the potentially mineralised and greisenised "tin granite" may be evidenced by a sub-vertical greisen vein swarm.

Work to date has consisted of:

1. Detailed mapping of the Cream Creek workings to provide a model for further exploration.
2. Evaluation of percussion drill performance.
3. Semi regional mapping of a 16 square kilometer area about Cream Creek (Hons. Thesis R. Simmons, Monash University) identified a further prospective zone on Cross Creek road.

Greisen veining at Cream Creek and Cross Creek road may reflect underlying tin rich greisen sheets of the Anchor type.

Evaluation of this potential by drilling is proposed.



A Aberfoyle Exploration Pty Ltd

Drawn R J E

Field

Checked

Revised by Date

NORTH EAST TASMANIA

WELDBOROUGH E.L. 19/78
Locality Plan

Location code

Date MAY, 1981

Scale 1:100,000

Plate No WELD 2

TARGET

Tin, tungsten and volcanogenic Cu-Pb-Zn mineralisation in north-eastern and western Tasmania.

PROGRAMME

Supervision, property evaluation, joint ventures, literature studies, reconnaissance fieldwork and tenure monitoring.

Area: 96 sq km

Renewal date: 9.2.82

Expenditure 80-81: \$13,527

Work Completed: by R. Simmons as part of an honours thesis at Monash University

Detailed mapping of creek and track sections

Geochemistry of the various granitic phases

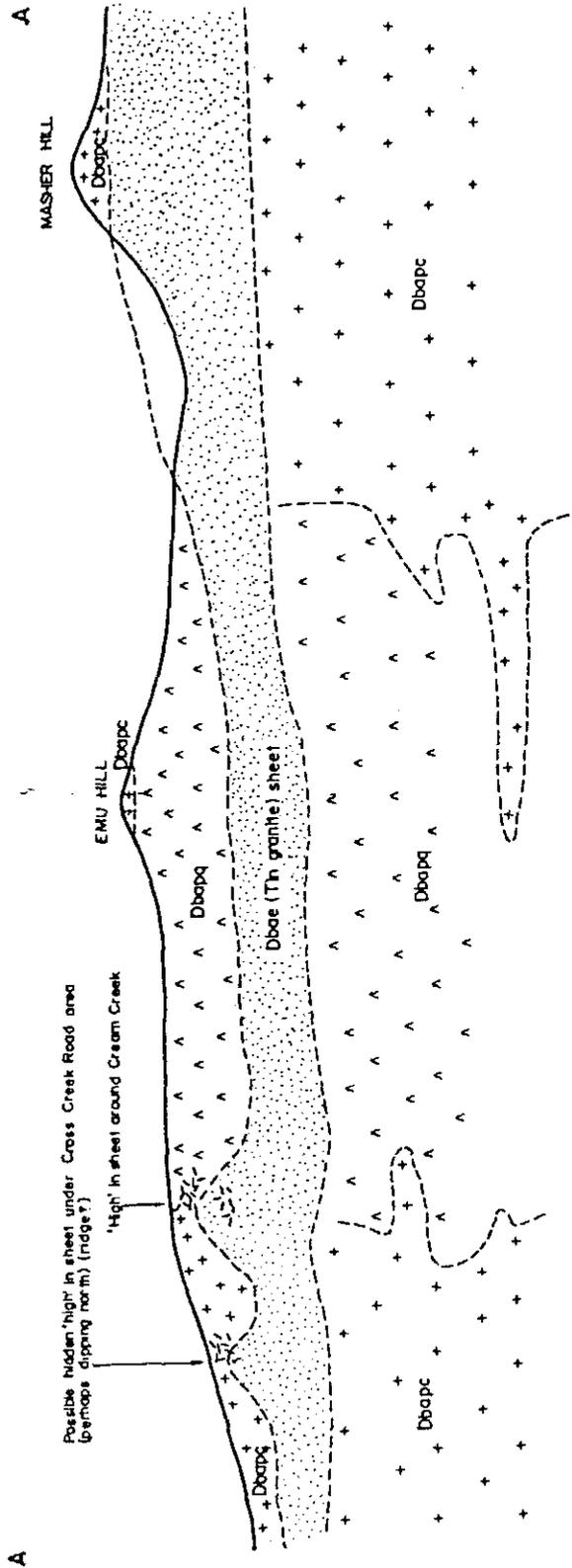
Results

Two areas of greisen mineralisation located at Cream Creek and on Cross Creek Road. This mineralisation is possibly related to highs in the underlying sub-horizontal sheet of tin granite.

Work Proposed

2-4 diamond drill holes at each locality to test this hypothesis. Approximately 200 metres of drilling. Past experience indicates the area is unsuitable for a large percussion rig, hence the use of the smaller diamond plant.

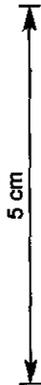
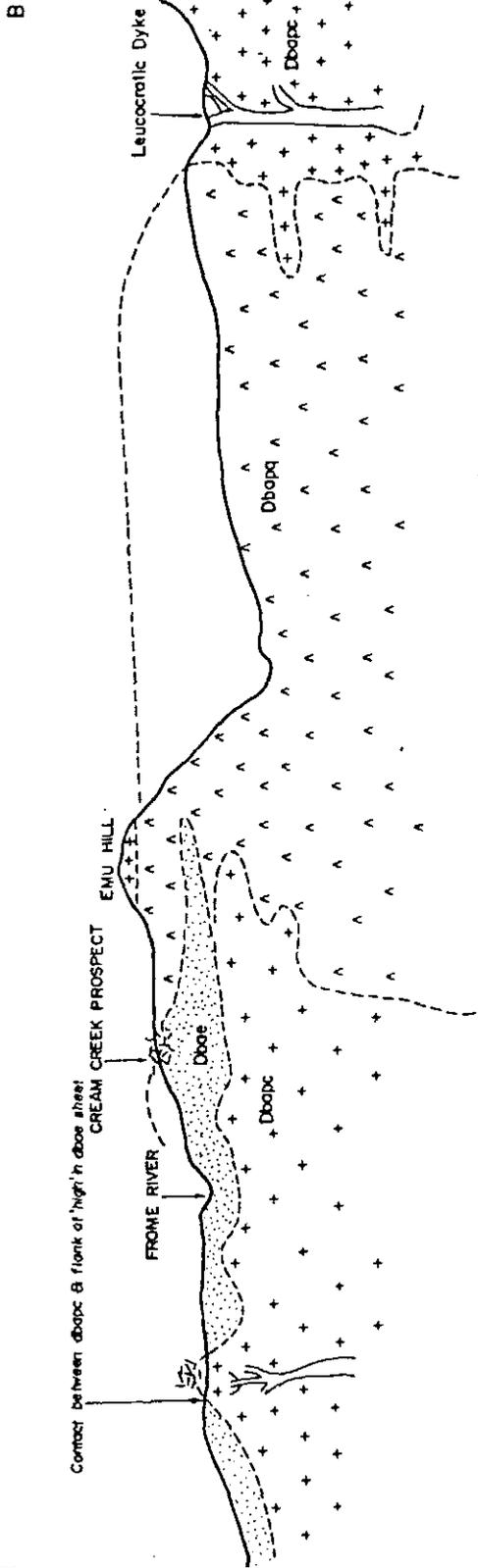
NW



W



E



Mineralization

895032

031

A/ Aberfoyle Exploration Pty Ltd

Geology: R.J.S.	Location code:
Drawn:	NORTH EAST TASMANIA
Traced: J.L.R.	WELDBOROUGH E.L.19/78
Checked:	STRATIGRAPHIC CROSS SECTIONS AA-BB
Revised by: Dett	(REFER PLATE WELD. 12)
Date:	
Location code:	
Date: Sept 1981	
Scale: As shown	
Plate No: WELD. 13	

WELDBOROUGH ROCK TYPES

DBAE : EQUIGRANULAR MEDIUM GRAINED BIOTITE-MUSCOVITE GRANITE/
ADAMELLITE. (VARIANT PORPHYRITIC IN FELDSPAR).

DBAPQ: GRANITE/ADAMELLITE: FINE TO MEDIUM GRAINED GROUND-
MASS, PORPHYRITIC IN PLAGIOCLASE, K-SPAR, ROUNDED QUARTZ
AND CORDIERITE.

DBAPC: GRANITE/ADAMELLITE: MEDIUM TO COARSE GRAINED GROUND-
MASS OF QUARTZ, TWO FELDSPAR AND BIOTITE, PORPHYRITIC
IN K-SPAR.

----- LEUCOCRATIC MICROGRANITE

FIELD RELATIONS

DBAPC INTRUDES DBAPQ

FLAT TO SHALLOW DIPPING CONTACT BETWEEN DBAPC AND
DBAE. (OBSERVED ON MASHER HILL)

TASMANIAN EXPLORATION JOINT VENTURES

CURRENT AT

NOVEMBER 17, 1981

TASMANIAN EXPLORATION JOINT VENTURES CURRENT AT NOVEMBER 17, 1981

NAME	PARTNER	MANAGER	TITLE	COMMODITY	TERMS	EXPENDITURE TO DATE
Mackintosh Tas.	Paringa	Aberfoyle	E.L. 2/70 (174 sq.km) 3/12/81	Cu-Pb-Zn	Aberfoyle 90% Paringa 10% both contributing Annual & brief monthly reports.	\$363,516
Mackintosh East, Tas.	Geopeko Limited	Geopeko	Part EL 2/70 (58 sq.km) 30/12/81 7 sq.km addition 20/10/80 E.L. 46/80 (Heap of Rocks)	Cu-Pb-Zn	Geopeko earn 40% by spending \$120,000 and then 60% by spending \$220,000 over 3 years, then Aberfoyle contributes or dilutes to 20%. Annual and brief monthly reports.	\$108,050
Sterling Valley, Tas.	E.Z. - Getty (36%) (24%)	E.Z.	E.L. 4/73 (33 sq.km) 6/3/82	Cu-Pb-Zn	EZ-Getty expenditure of \$200,000 by June 1981, to earn 60%, with option to proceed to 80% for further \$200,000. Annual and brief monthly reports.	\$398,085
Marion oak, Tas.	Shell Metals (50%)	Shell	E.L. 22/74 (37 sq.km) 26/2/82	Cu-Pb-Zn	Agreement in preparation. Shell to earn 50% by spending \$60,000. Annual and brief monthly reports.	\$111,005
Mount Lindsay, Tas.	Renison Limited 38% & Goldfields 22%	Renison	E.L. 2/63 (90 sq.km) 1/4/82 15 sq.km addition (5/8/80) from EL 17/77 (Mt. Merton area)	Sn	JV with contributing partners. Renison/Goldfields 60%, Paringa 23.84% Aberfoyle 16.16% Annual and brief monthly reports.	\$967,837
Queen Hill, Tas.	Gippsland Oil & Minerals N.L.	Aberfoyle	E.L. 47/71 (122 sq.km) 21/12/81 CML 36M/81 (564 ha)	Sn	Aberfoyle 60% - can earn 70% by meeting all expenditure to completion of feasibility. Quarterly reports.	\$2,259,109 CML \$473,063 EL

035

(No contribution by Aberfoyle)

Geopeko as Managers

TERMS

Geopeko have earned 40% interest and can earn 60% by expenditure of a further \$120,000.

WORK COMPLETED AND PROPOSED

Prover 1

Mapped and soil sampled on a 100 m grid. Coincident Pb, Zn anomaly, 500 m + long and open at both ends.

Two diamond drill holes proposed.

Prover 3

Mapped and sampled as for Prover 1. Coincident closed Pb, Zn anomaly.

Action dependent on Prover 1 results.

Prover 8

Ground magnetics have defined a moderate anomaly underlain by limestone.

Follow-up as possible skarn target proposed.

Prover 11

Possible black shale response outside E.L. 2/70. Pegged by Geopeko as E.L. 46/80, to be included in J.V.

Follow-up of stream anomalies proposed.

Anomaly 13

Good DIGHEM and Aero-mag response similar to Mt. Bischoff and Que River. Anomalous Cu and Mo detected in stream follow-up. Close to Mt. Remus Mo, Co, V prospect.

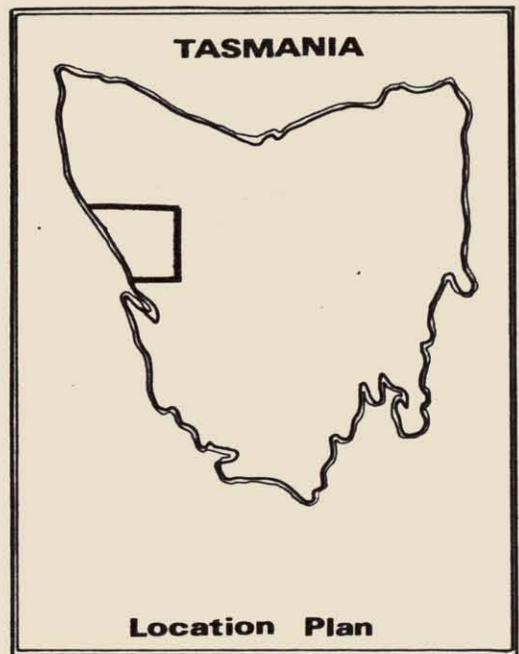
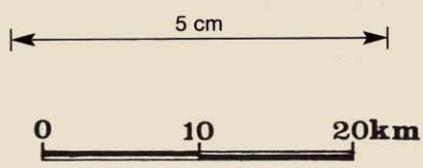
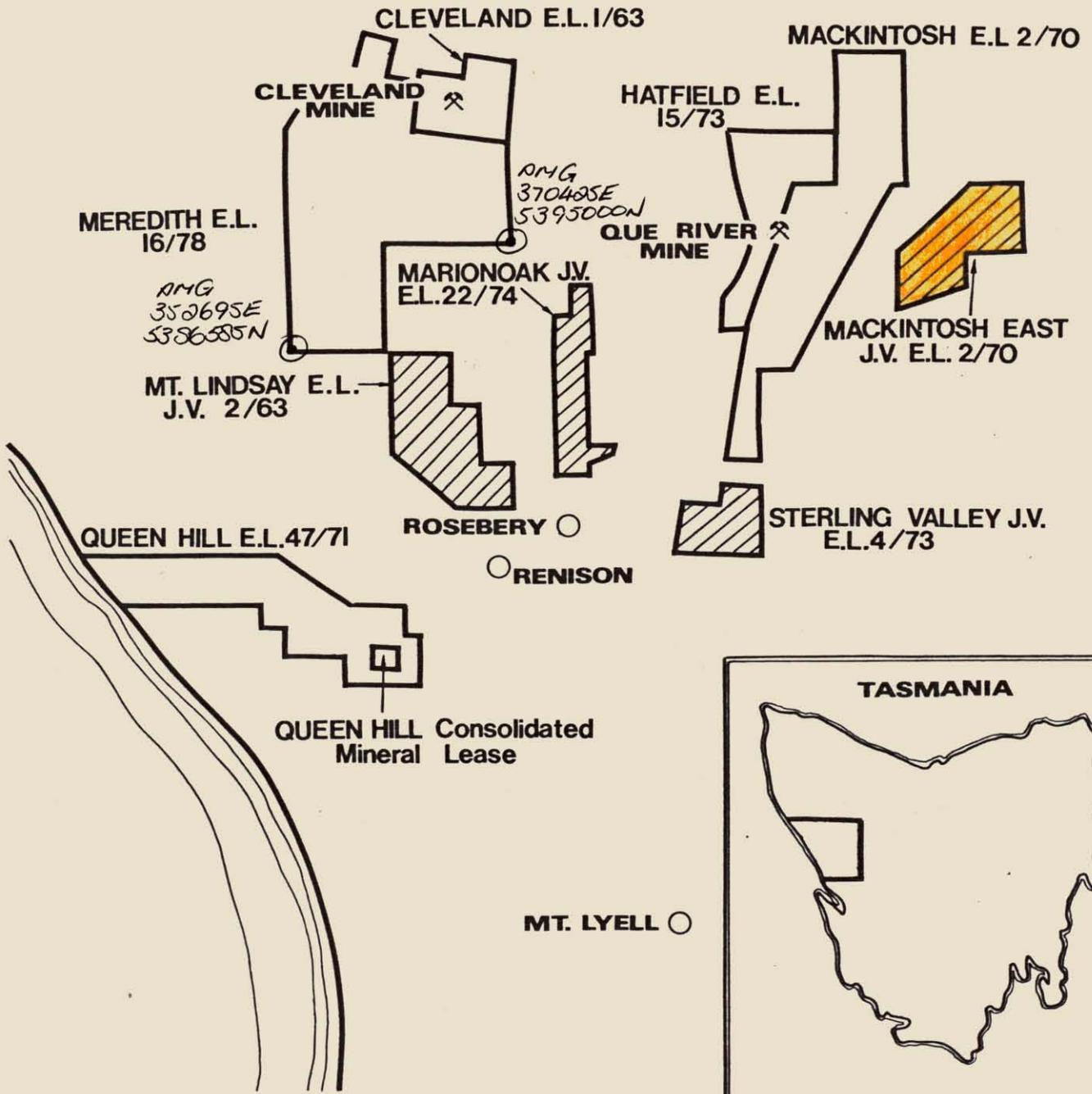
EXPENDITURE TO DATE \$108,050

PROPOSED EXPENDITURE FOR 1982 \$120,000

CRITICAL DATES

A decision on the future of the E.L. is hoped for by the conclusion of the 1982 season

036

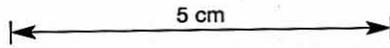


 **Aberfoyle Exploration Pty Ltd**

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FOLLOW UP OF DIGHEM ANOMALIES
 Geological reconnaissance
 Ground EM reconnaissance

PROVER 5
 Pb drainage geochemical anomalies 200-2000 ppm pl
 Proposed gridding, soil geochemistry, IP, geophysics.
 2 drill holes

Pb drainage anomalies
 300 - 3200 ppm Pb

PROVER 8
 Magnetic Anomaly

Pb - Zn drainage anomaly
 up to 300 ppm Pb, 450 ppm Zn

PROVER 7
 EM Magnet Anomalie

PROVER 6
 EM Anomaly

PROVER II

PROVER 2
 Carter's Prospect
 Pb-Ag-Zn veins-type mineralization.
 No work planned.

PROVER 1
 Pb drainage geochemical anomalies 140-1500 ppm Pb
 Proposed: gridding, soil geochem, I.P., geophysics.
 1 percussion/diamond hole

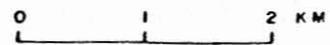
PROVER 5
 EM Anomaly

ANOMALY 13

- LEGEND:**
- TERTIARY Basalt
 - ORDOVICIAN Gordon Limestones
 - Conglomeratic Sandstone
 - CAMBRIAN Quartz - feldspar - biotite porphyry
 - Acid volcanics, pyroclastics
 - PRE CAMBRIAN Metasedimentary schists, gneisses

MACKINTOSH EAST E.L. 2/70

PROSPECT LOCATION DIAGRAM
 Proposed work and budget 1980/81
 Scale: Approx. 1: 6700



Areas of B-Horizon Lead soil geochemical anomalies

038

Sterling Valley EL 4/73
(No contributions by Aberfoyle)

E.Z./Getty with E.Z. as Manager

J.V. Agreement signed May 13th, 1981

Annual and brief monthly reports provided

TERMS

E.Z./Getty to earn 60% by expenditure of \$200,000
with option to proceed to 80% by further expenditure of \$200,000

PROGRAMME

Complete outstanding drilling on the Western Volcanics,
testing I.P. and Magnetic Anomalies as follow up to hole STP 217
which intersected a 2 m band of massive pyrrhotite with 0.26% Sn.
Continue the detailed grid programme over the Western Volcanics
and Farrell Slates towards the southern end of the E.L.

WORK COMPLETED

- STP 231 Completed at 150.6, Tr Cpy, Py, Po, Sn
2 m of 0.31% Sn
- STP 232-A1 Completed at 198.2 m
- STP 234 Completed at 342.5 m
- 16 km of grid cutting on 19 lines completed

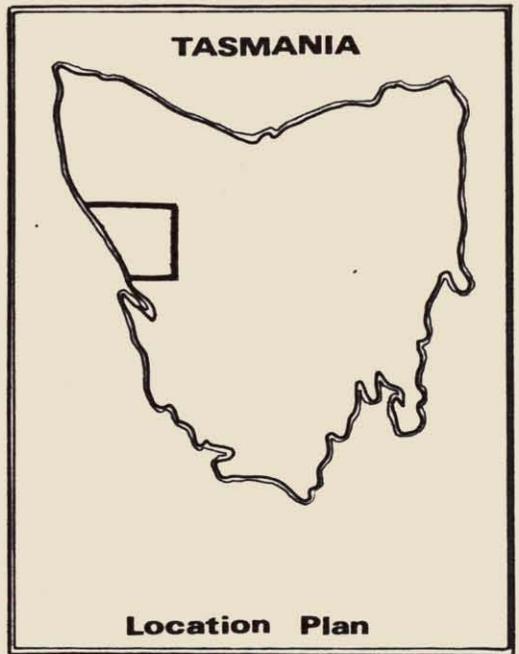
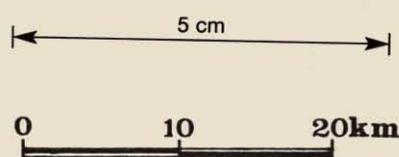
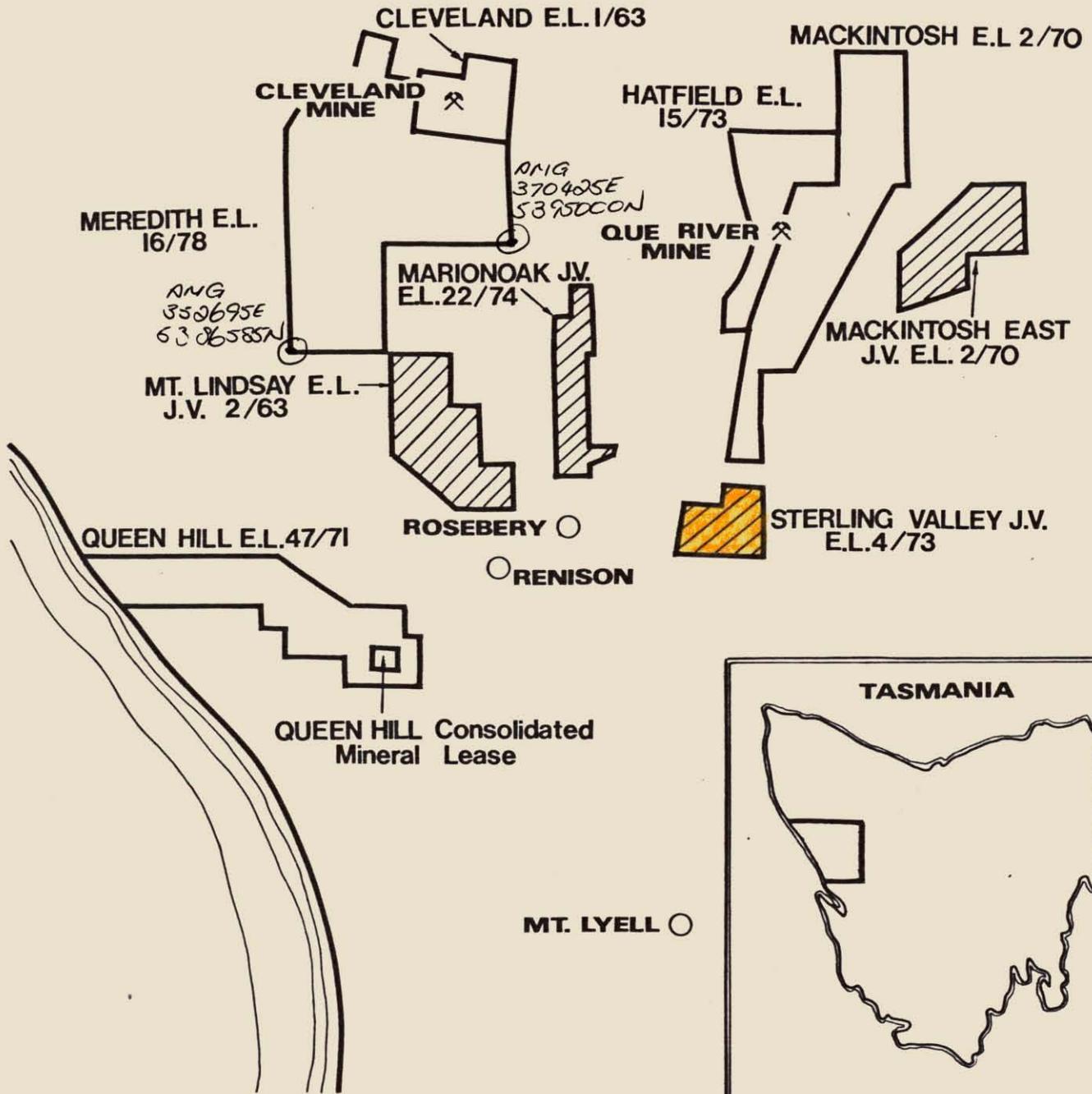
WORK PROPOSED

Two further diamond drill holes of 150 m each to test ground
magnetic targets.
Mapping, soil sampling and ground magnetics on grid extensions.

TOTAL EXPENDITURE TO DATE \$257,085 (to Nov. 1981)

Proposed expenditure to June 30, 1982: \$71,575 of which
\$61,575 will be requested in January 1982.

Having earned their 60% interest, the partners are proceeding
to the 80% level by spending a further \$200,000.



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Sterling Valley

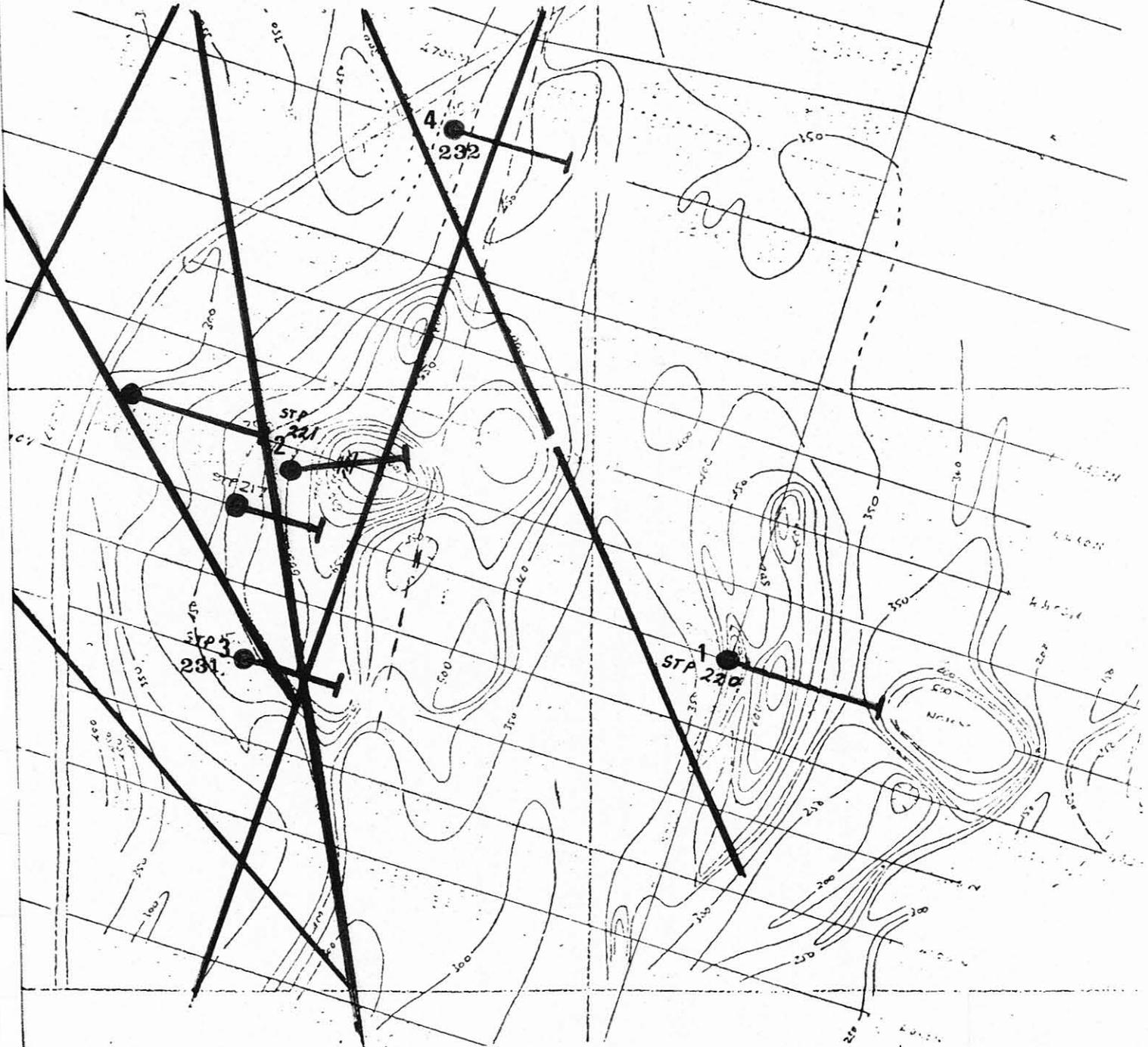
DRILL HOLE COMPLETED

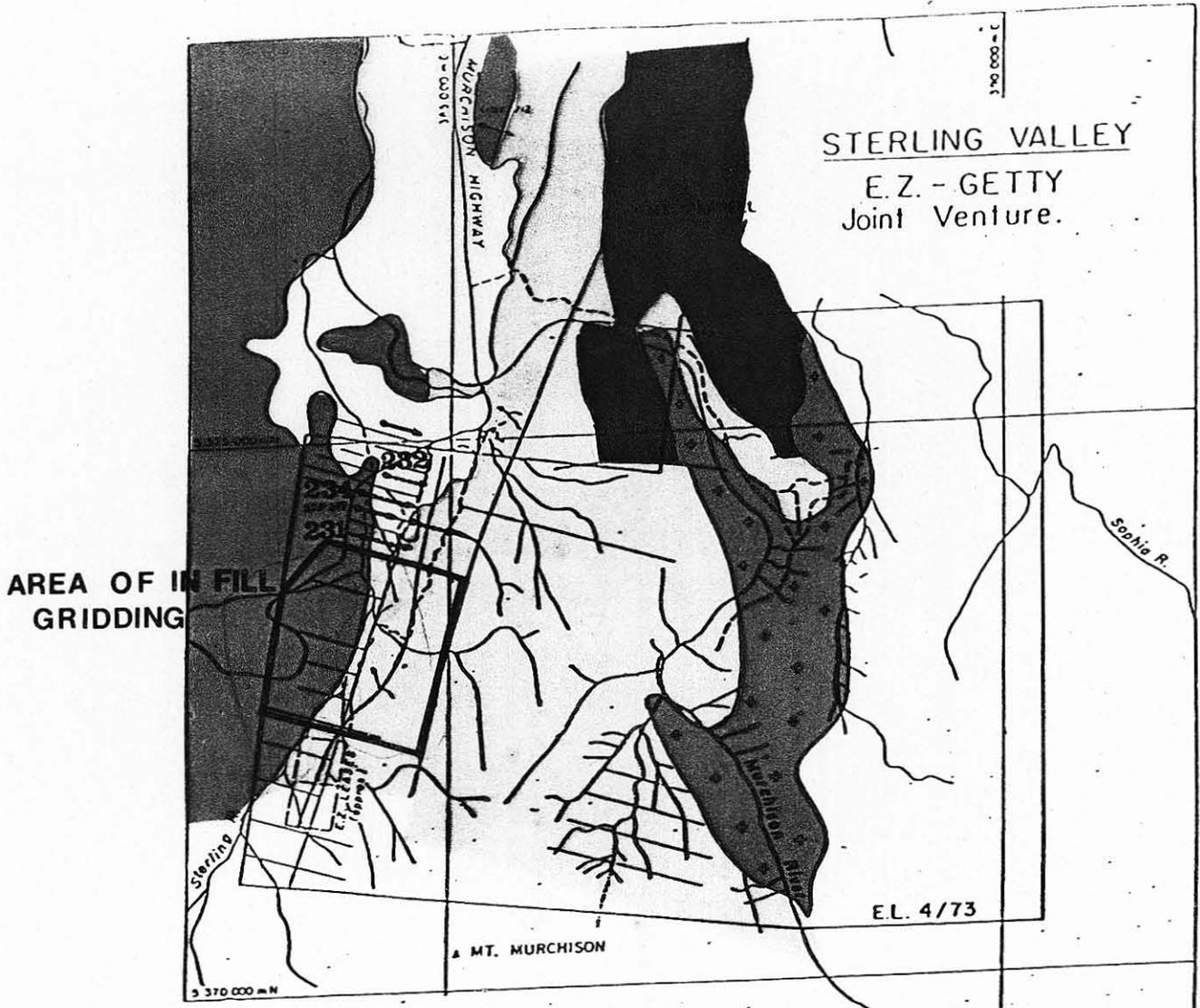


PHOTO LINEAR



GROUND MAGNETIC CONTOUR





AREA OF IN FILL GRIDDING

STERLING VALLEY
E.Z. - GETTY
Joint Venture.

- Drill hole completed → Drill hole proposed
- ==== Proposed Grid
- Glacial gravels (PLEISTOCENE)
- Owen Conglomerate (ORDOVICIAN)
- Intermediate Volcanics
- Farrell Group
- Rhyolitic Volcanics (sub aerial)
- Murchison Granite

CAMBRIAN

WESTERN VOLCANICS E.Z. hole MRP 212, 1 km north: 69 m of 0.27% Sn including 2 m 0.55% Sn in sulphide veins at Farrell/Intermediate Volcanics contact. Hole MRP 219 completed 150 m N of boundary, intersected only 20 cm sulphide vein. STP 217 1 m of 0.5% Sn and 2.05 m 0.26% Sn in sulphide veins in intermediate volcanics. STP 218 minor sulphide veining, low Sn values, maximum 630 ppm 80-85 m. Work Proposed Four diamond drill holes for 850 m. Expenditure will exceed \$200,000 by January 1981 giving E.Z. Getty 60% ownership.

EASTERN VOLCANICS Stream sediment sampling completed. 1 km² anomalous zone outlined (Pb 650-740 ppm, Zn 480-520 ppm) underlain by granite, rhyolite and minor intermediate volcanics, barite occurrence reported in same area. Ground follow-up on grid (after western drilling completed).

042

Marionoak EL 22/74

(No contributions yet by Aberfoyle)

Shell Metals are Managers

J.V. commenced April 18, 1981

Agreement not yet signed

Annual and brief monthly reports

TERMS

Shell will earn 50% interest by expenditure of \$60,000.
Then contributions at the rate of 50:50 or dilution by the exponential formula.

WORK COMPLETED

320 line km of DIGHEM flown in December 1980 -
no strongly conductive anomalies were located on the licence.

Brief visit to sample mineralised carbonaceous shales exposed
in an H.E.C. road cut west of Bastyan Dam.

WORK PROPOSED

The H.E.C. road cut area to be followed up by gridding, soil, rock
and stream geochemistry, ground magnetics and I.P.

Follow-up of a weak DIGHEM response close to a low-order Pb, Zn
stream sediment anomaly south of Higgins Creek.

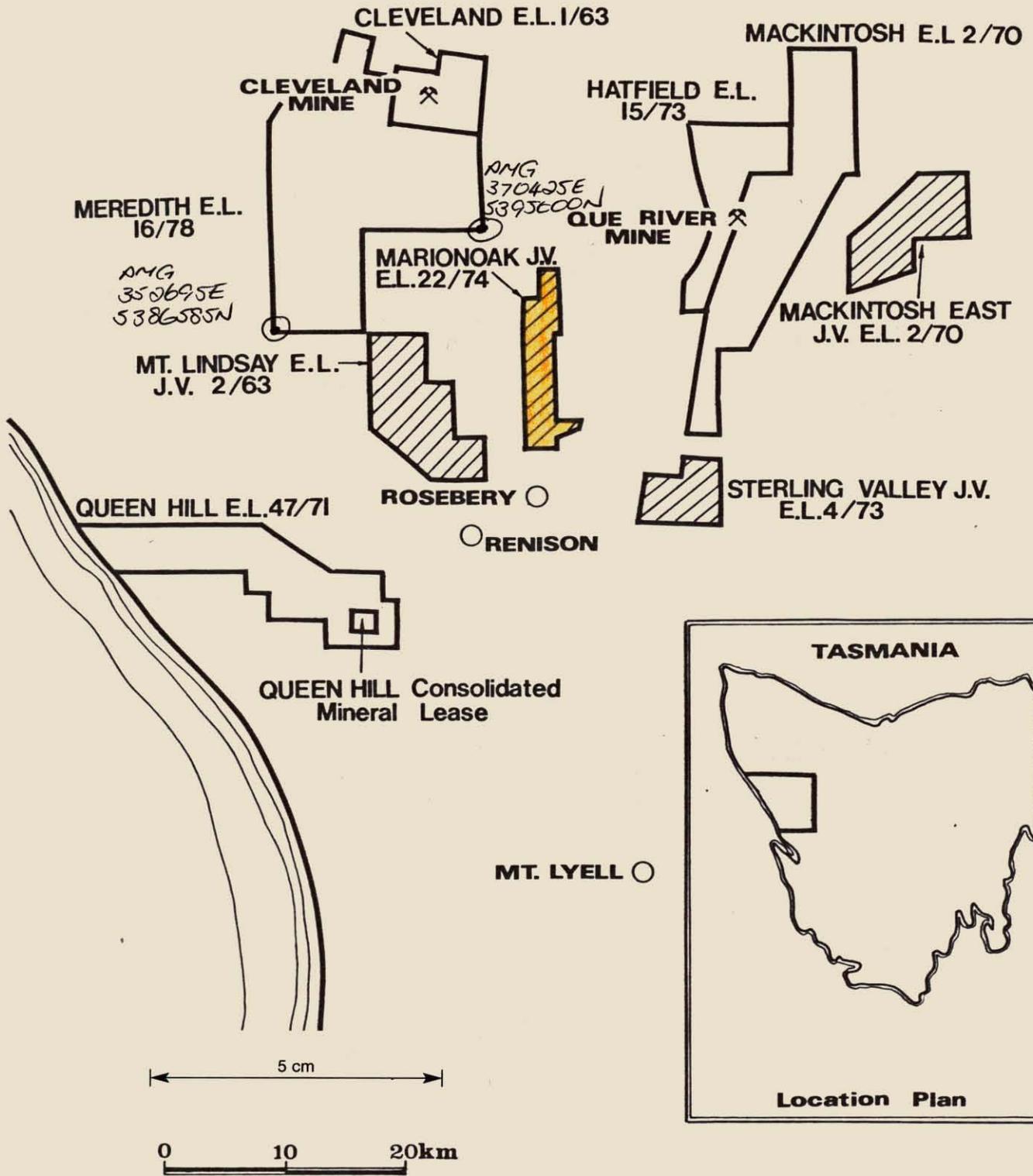
Follow-up re-sampling of the other Pb, Zn stream anomaly between
Higgins Creek and the H.E.C. road.

EXPENDITURE TO JUNE 30, 1981	\$29,000
PROPOSED EXPENDITURE TO DECEMBER 31, 1981	\$29,000
				<u>\$58,000</u>

CRITICAL DATES

By January 1982 Shell Metals will have attained their 50% interest
and will require joint title to the licence.

042



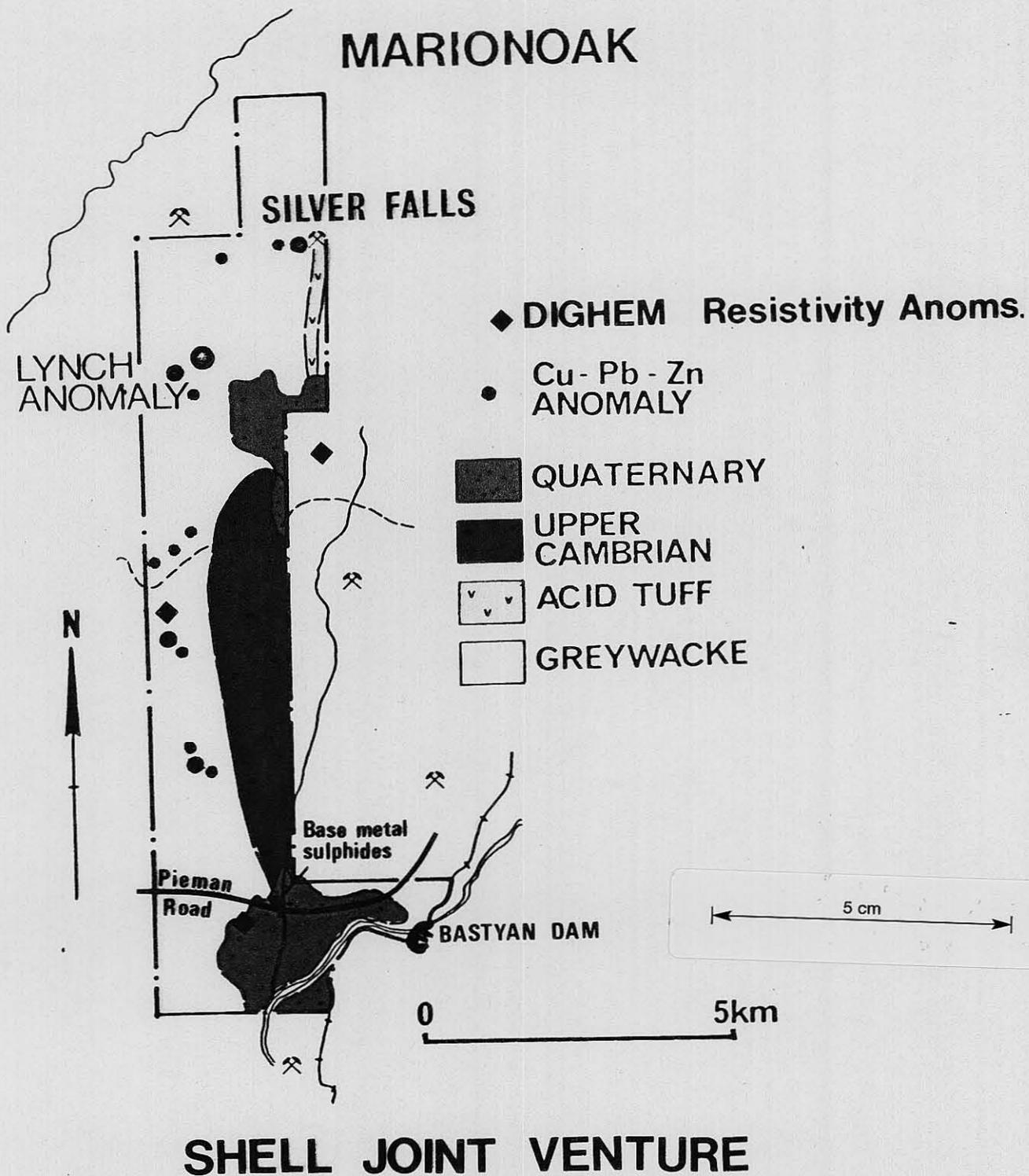
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NORTH WEST TASMANIA

EXPLORATION LICENCES

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TASMANIAN JOINT VENTURES

895046

Mt. Lindsay EL 2/63

Renison Limited as Managers

Annual and brief quarterly reports.

Annual J.V. meeting

J.V. with contributing partners

Gold Fields Group	60%
Paringa	23.84%
Aberfoyle	16.16%

WORK PROPOSED

At Merton Hill: 4 diamond drill holes for 1000 metres
 5.75 kms of grid extensions on 8 lines
 Stream sediment sampling north-east of Merton Hill

At Mt. Lindsay: Two diamond drill holes totalling 700 m
 to test skarn zoning concept developed
 by T. Kwak

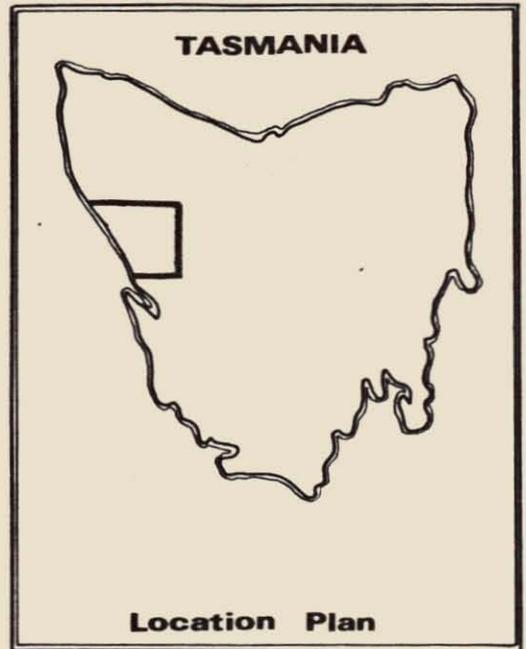
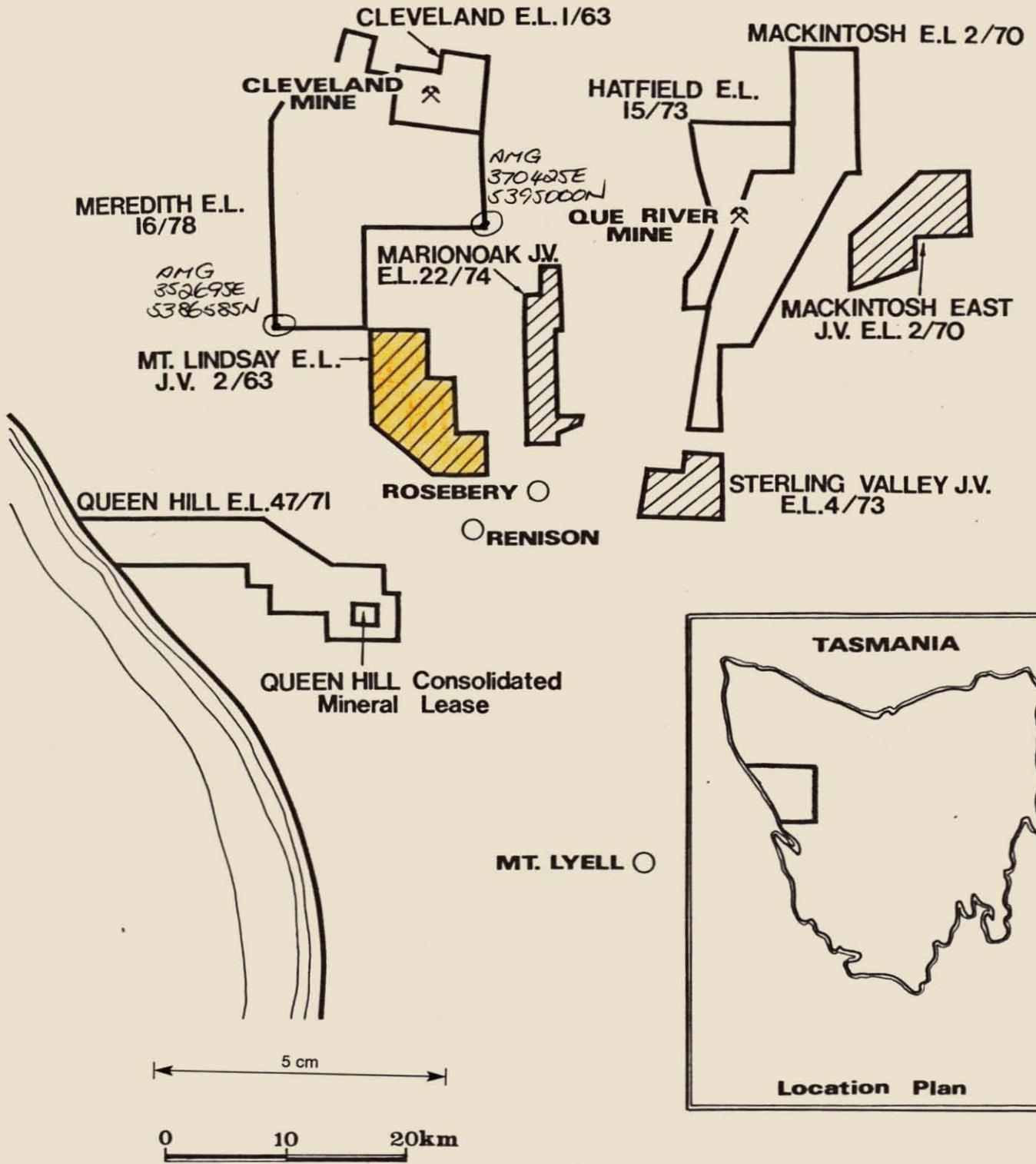
At Harmon River: 4 km of grid lines to be cut, soil sampled
 and covered by ground magnetics over Crimson Creek
 Formation

WORK COMPLETED

At Merton Hill: MH4 Completed at 375.0 m
 Grid cutting, sampling and magnetometer coverage

PROPOSED EXPENDITURE OCTOBER 1981 TO JUNE 1982	...	\$158,326
ESTIMATED EXPENDITURE JULY TO NOVEMBER 1982	...	\$ 27,317
	TOTAL	<u>\$185,643</u>
Aberfoyle share at 16.16%		\$30,000

U46



Aberfoyle Exploration Pty Ltd

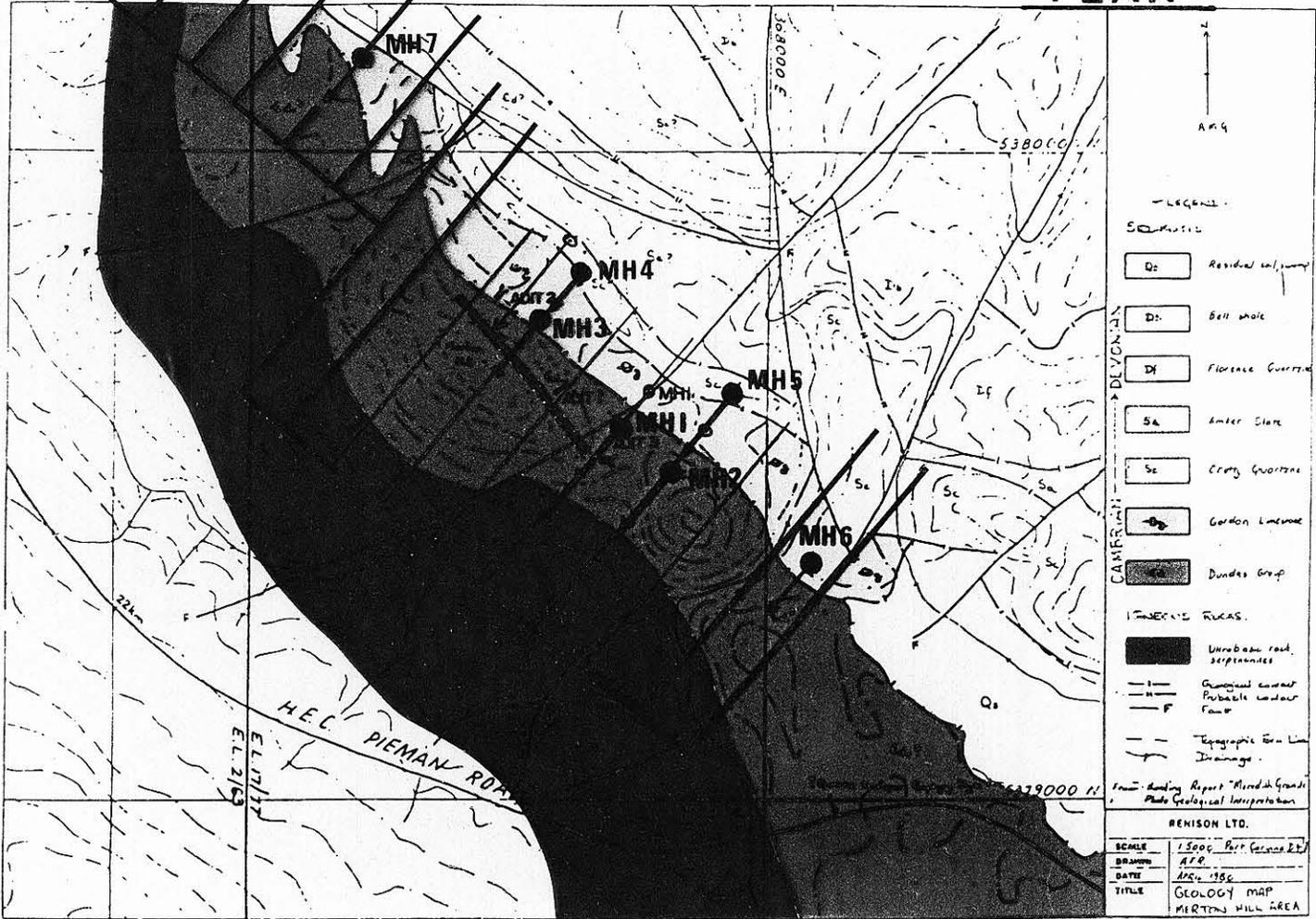
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MT. MERTON Joint Venture

PLAN



SECTION

