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7 MAY 1985				E & IL
DEPT. OF MINES				
REF. No. 5123/85				

MICROFILMED

PROJECT NAME: COMSTAFF PROPRIETARY LIMITED

TITLE: EL 25/84 - HELLYER RIVER
RELINQUISHMENT REPORT

OPEN FILE

AREA NAME/S, STATE 1:250,000 SHEET NO/S & COORDINATES: BURNIE 1: 250,000 SHEET SK 55-03

COMMODITY/IES: Sn

TEXT PAGES NO: 3

PLAN NOS: TAS - 2 - 1408, FIG 2

TABLE NOS: -

APPENDICES: -

AUTHOR/S: R.W.L. SHAW

DATE: 9 MAY 1985

AUSTRALIAN ANGLO AMERICAN LIMITED

Incorporated in the State of Victoria

COMSTAFF PROPRIETARY LIMITEDEL 25/84 - HELLYER RIVERRELINQUISHMENT REPORT

The application for the area known as Hellyer, EL 25/84, was not made on the basis of the presence of known mineral occurrences in the area, or in fact any evidence that attractive anomalies of any kind occur.

Existing information was that the entire area for which application was made was underlain by Tertiary basalts of considerable thickness and hence the likelihood of the presence of a 'hard' lead to the existence of a massive replacement body of Devonian aged tin mineralisation was remote.

Notwithstanding the above limitations it was considered a reasonable proposition that a simple phase of grass roots type exploration might be rewarding. In a regional sense the target area lies on a mineralised latitudinal through Savage River, Cleveland and Mt Bischoff. The geological control on this line may be a fundamental crustal linament or fortuitous, but the fact remains that the line is a good focus for attention. In our work adjacent to Mt Bischoff, and from historical sources, it is clear that the basal and interbasaltic Tertiary gravels and sediment horizons can be host to detrital cassiterite. A substantial research project exists in studying this cassiterite to determine its provenance and as an aid to expanding the knowledge of the Tertiary West Coast palaeogeography. A spin off of this study may be the realisation that certain cassiterites may be atypical of those sources known and exposed and if so, the implication can be drawn that sub basaltic bodies of tin mineralisation may exist. The data may even be sufficient to point in their direction.

Such a research project would have been beyond the scope and terms of reference of our exploration programme. Our objective was to consider the above theorem as having merit and testing it by assuming that cassiterite in the tributaries to the Hellyer River within EL 25/84 would be shedding from interbasaltic sediments and that its provenance may be a locally buried deposit rather than the relatively remote Mt Bischoff. However the first aspect of the proposed programme was to get amongst the creeks and execute a very simple reconnaissance sampling exercise: -

silt sample, above flood level of the Hellyer,
all tributaries.

-2-

heavy mineral concentrate sample the major tributaries to the Hellyer River within the licence area.

collect a representative suite of rock float looking for geological evidence that a window through the Tertiary may exist.

The data generated would have hopefully included anomalous levels of Sn. Follow up of these would have required physical inspection of heavy concentrates looking for cassiterite, its colour, shape, size characteristics and associated heavy mineral species. This evidence would have provided information on the individuality of the provenance compared to the known sources.

An appeal to the geophysical disciplines would have then been made to gather all magnetic, gravity and electro-magnetic data which exists for the area and filter this for evidence of structural patterns, basement anomalies and basement highs. Any information which might have contributed to recognition of the preTertiary topography would have been essential to the approach being considered.

Follow up silt sampling would have aimed to isolate the horizon or horizons from which the cassiterite was shedding, particularly in RL terms as this by inference could have suggested the topographic height of the cassiterite source before it was buried by the basalt.

Assuming that anomalies were discovered and that an upper RL limit had been established the wild-cat element of testing the Tertiary Basalt terrain for buried mineralisation would not have been eliminated but substantially reduced. At that stage one would have had to resort to pattern drilling but with the saving that basement need not be reached in most holes.

The search would have been directed towards looking for the upper interbasaltic wash layer from which cassiterite is shedding (to derive a pattern of tin values) and for a basement hill which exceeds this RL and which could be the source of the cassiterite.

Preparations for commencement of the initial sampling exercise were shelved on discovery that not only was most of the land Private and permits to enter would be required, but that at least certain mineral rights were vested in Private Title. The Private land situation could be overcome quite easily by following established procedure but Private Mineral Rights constitutes an obstacle to the perception that one can proceed in an orderly fashion to exploitation. In our proposed programme although the initial phases were particularly inexpensive, successive phases, as described above, would

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escalate rapidly in cost by the nature of the technically innovative approach being advocated to searching beneath the basalt.

However, the prospectivity of the area was not ranked sufficiently highly to merit protracted work to overcome the land title complexities. Accordingly, application to relinquish the Licence was made.



for R.W.L. SHAW

I, OSVALDO TIBURCIO FILOMENO FONSECA, of 56 Partridge Crescent, Frankston in the State of Victoria, Accountant DO SOLEMNLY AND SINCERELY DECLARE as follows:

That in the period from grant of the licence to 30 April 1985 we have recorded expenditure of \$438 on work on Exploration Licence 25/84 analysed as follows -

	\$
(a) Operational staff costs	400
(b) General operational expenses	-
(c) Transport and travel	-
(d) Tenement costs	38
(e) Contractors	-
(f) Specialist services	-
(g) Drilling and treatment	-
(h) Capital expenditure	-
(i) Administration costs	-
	438

AND I MAKE this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Victoria rendering persons making a false declaration punishable for wilful and corrupt perjury.

DECLARED AT Melbourne)
in the State of Victoria)
this Fifteenth day of May)
1985)

O. Fonseca

Before me:

B N. Leckie

B N. LECKIE
COMMISSIONER FOR TAKING AFFIDAVITS

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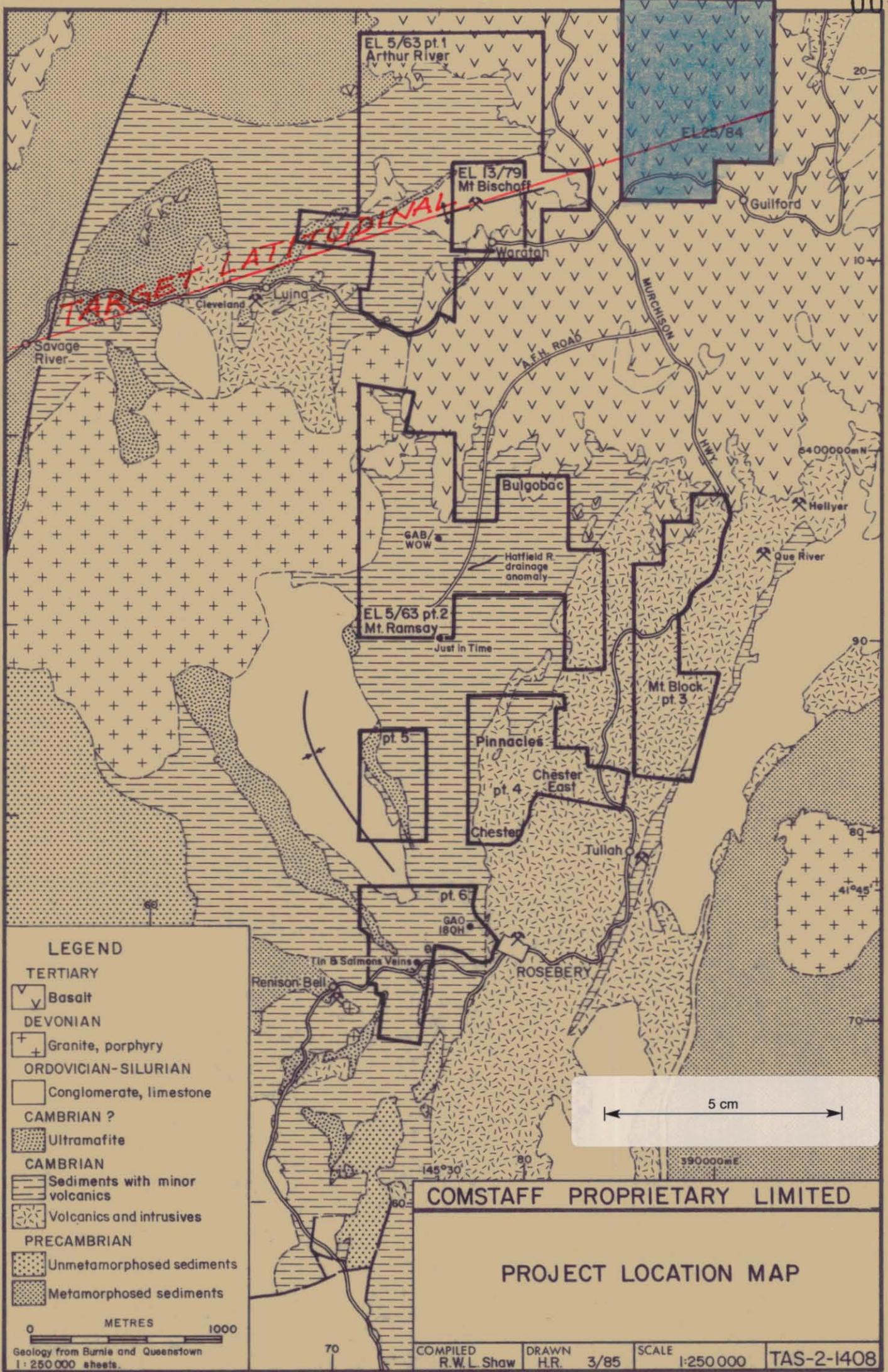
O. Fonseca

Before me:

B. N. Leckie
B N. LECKIE

COMMISSIONER FOR TAKING AFFIDAVITS

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LEGEND

- TERTIARY
 - Basalt
- DEVONIAN
 - Granite, porphyry
- ORDOVICIAN-SILURIAN
 - Conglomerate, limestone
- CAMBRIAN ?
 - Ultramafite
- CAMBRIAN
 - Sediments with minor volcanics
 - Volcanics and intrusives
- PRECAMBRIAN
 - Unmetamorphosed sediments
 - Metamorphosed sediments

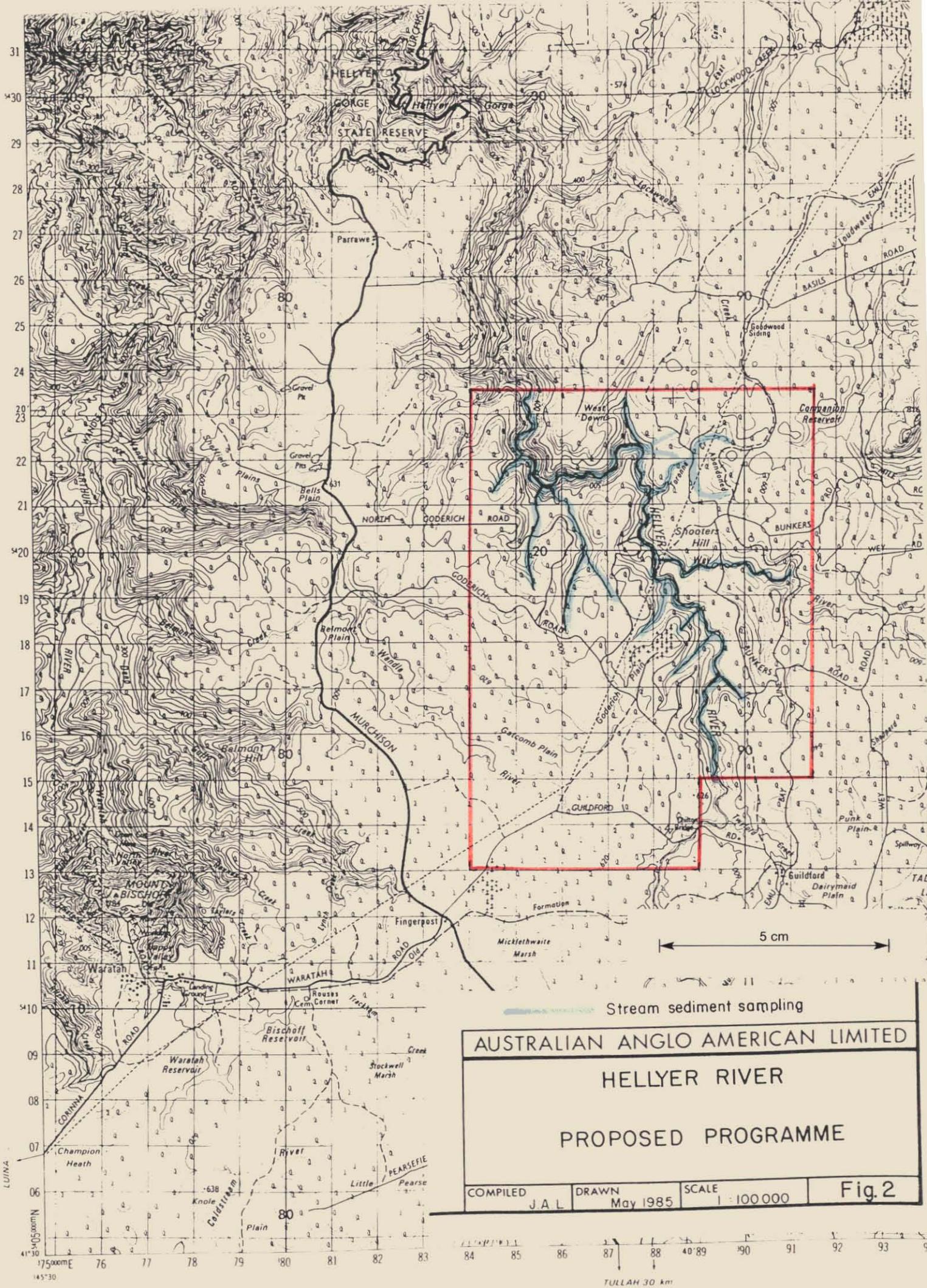
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Geology from Burnie and Queenstown 1:250,000 sheets.

COMSTAFF PROPRIETARY LIMITED

PROJECT LOCATION MAP

COMPILED R.W.L. Shaw DRAWN H.R. 3/85 SCALE 1:250,000 TAS-2-1408



Stream sediment sampling

AUSTRALIAN ANGLO AMERICAN LIMITED

HELLYER RIVER

PROPOSED PROGRAMME

COMPILED J A L	DRAWN May 1985	SCALE 1 : 100 000	Fig. 2
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TULLAH 30 km