



C O N T E N T S

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## Introduction

The licence area (9km<sup>2</sup>) covers the alluvial flats of the Dorset and New Rivers over 10 km of channel length which is prospective for alluvial gold derived from the Alberton and New River goldfields.

## Previous Exploration

Forty-six holes have been drilled with a cable rig and a minable resource has been proved in a buried channel over a length of 450m in the New River valley.

Twenty-nine holes have been drilled in the Dorset valley but to date no economic alluvial gold resource has been identified.

## Exploration in the Current Year

An alluvial recovery plant owned by Paul Moore and Greg Faulkner was employed over five days for the purpose of determining mining recovery in the New River Lead. Four trenches were dug on the lead by a 20t excavator and processed on site, the tailings being returned directly into the worked out portion of the trench.

The most important trench was "B" which was excavated over B.H.46 where grade from churn drilling was found to be 1 g/m<sup>3</sup>. The trench dimensions were: 4.5m long, 1m wide and 4m deep, from which 18g of 80% Au were extracted, i.e. 0.8 g/m<sup>3</sup> or = 13/g at current gold values.

The operators consider that the ground could be worked for \$3/m<sup>3</sup>. Allowing \$2/m<sup>3</sup> for administration and compensation, a working profit of \$8/m<sup>3</sup> should be realised.

The average grade over the 450m lead, as estimated from churn drilling, was calculated at 0.6 g/m<sup>3</sup> (\$10/m<sup>3</sup>) or a working profit of \$5/m<sup>3</sup>, which is probably a more realistic outcome.

The other three trenches were only excavated to check for old surface workings which extended over 500m upstream from Crown Prince Creek.

Trench "D" intersected old workings but "A" and "C" were in virgin ground. These three trenches were not extended to the bottom of the lead as there was insufficient water for plant operation and so there is no information available on values.

Trench "C" indicates that the length of workable lead extends a further 50m to the south. There has not as yet been any testing of old workings tailings due to the wet nature of the ground, the area would require draining before an excavator could operate in it. There are, however, payable pockets of virgin ground in and around these workings.

#### Proposed Exploration (1994-5)

A minable resource has been established in the New River Lead and further exploration should be carried out ahead of workings when the known portion of the Lead is being mined. Attention will therefore be concentrated on attempting to prove a minable resource in the Dorset Valley.

On the basis of the alluvial model outlined in previous reports, it is deduced that the Lead underlies the present channel and it is proposed to drill or excavate the Dorset River flats across the line of the present river course to verify this concept.

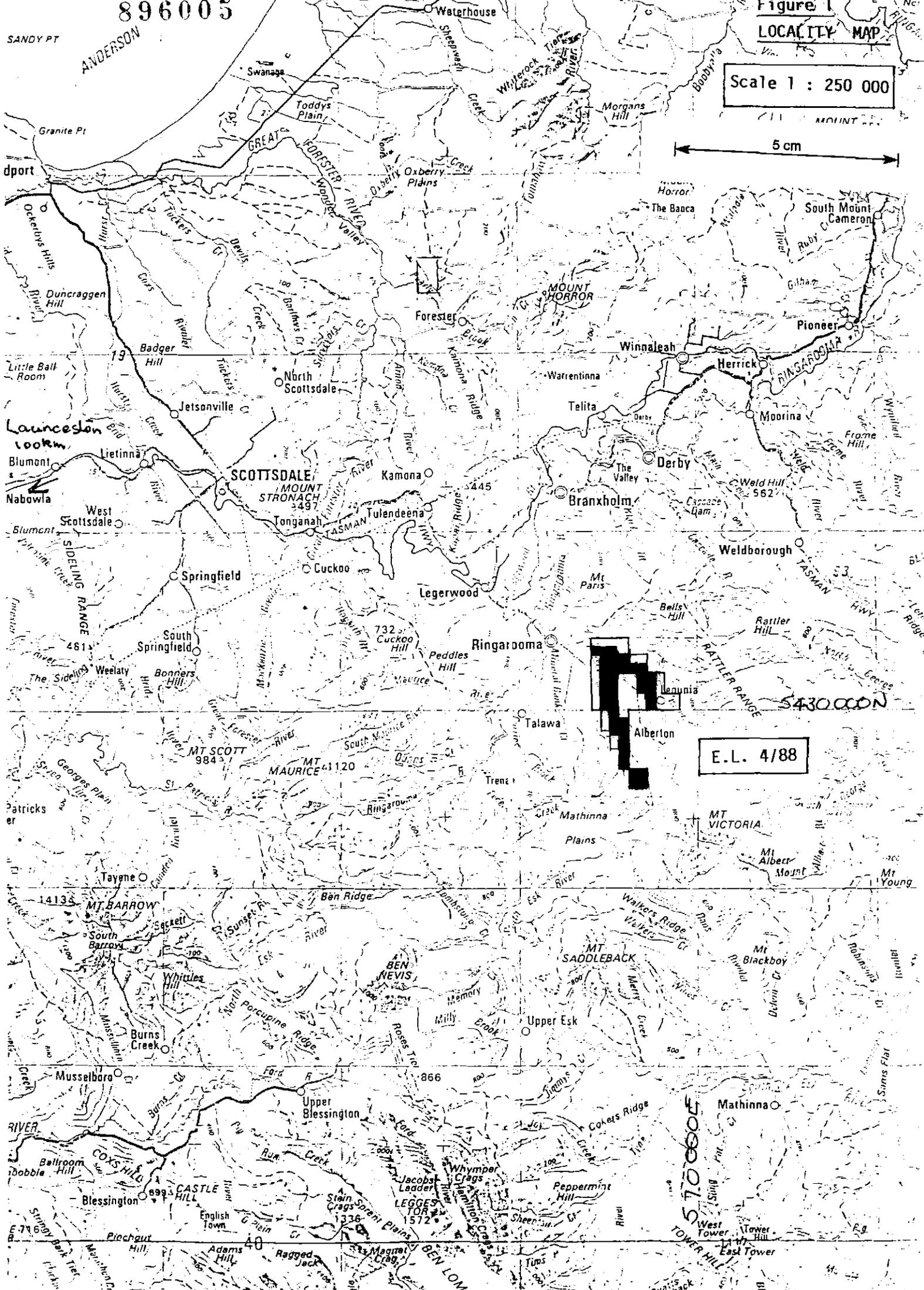
To date the exploration method has been Cable Tool drilling, which is slow and therefore costly and has the added disadvantage of limited sample size (0.02m<sup>3</sup> per metre of channel thickness). It is used principally because it is less intrusive than costeaning. It is proposed to drill in the first instance to locate the palaeochannel which will then be evaluated by costeaning. The programme will be submitted for approval when the details are available. It is timed for next summer when ground water level is reduced.

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Figure 1  
LOCALITY MAP

Scale 1 : 250 000

5 cm

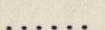
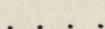
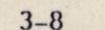
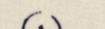


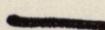
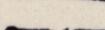
E.L. 4/88 (PERA FLATS)

Figure 2

Geomorphology

-  Licence Boundary
-  Watercourse
-  Drainage Divide
-  New River Lead

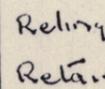
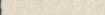
-  Strandline of inferred lake
-  Extent of marshland
-  3-8 Churn Drill Holes (see also fig.2)
-  ① Proposed churn drill holes

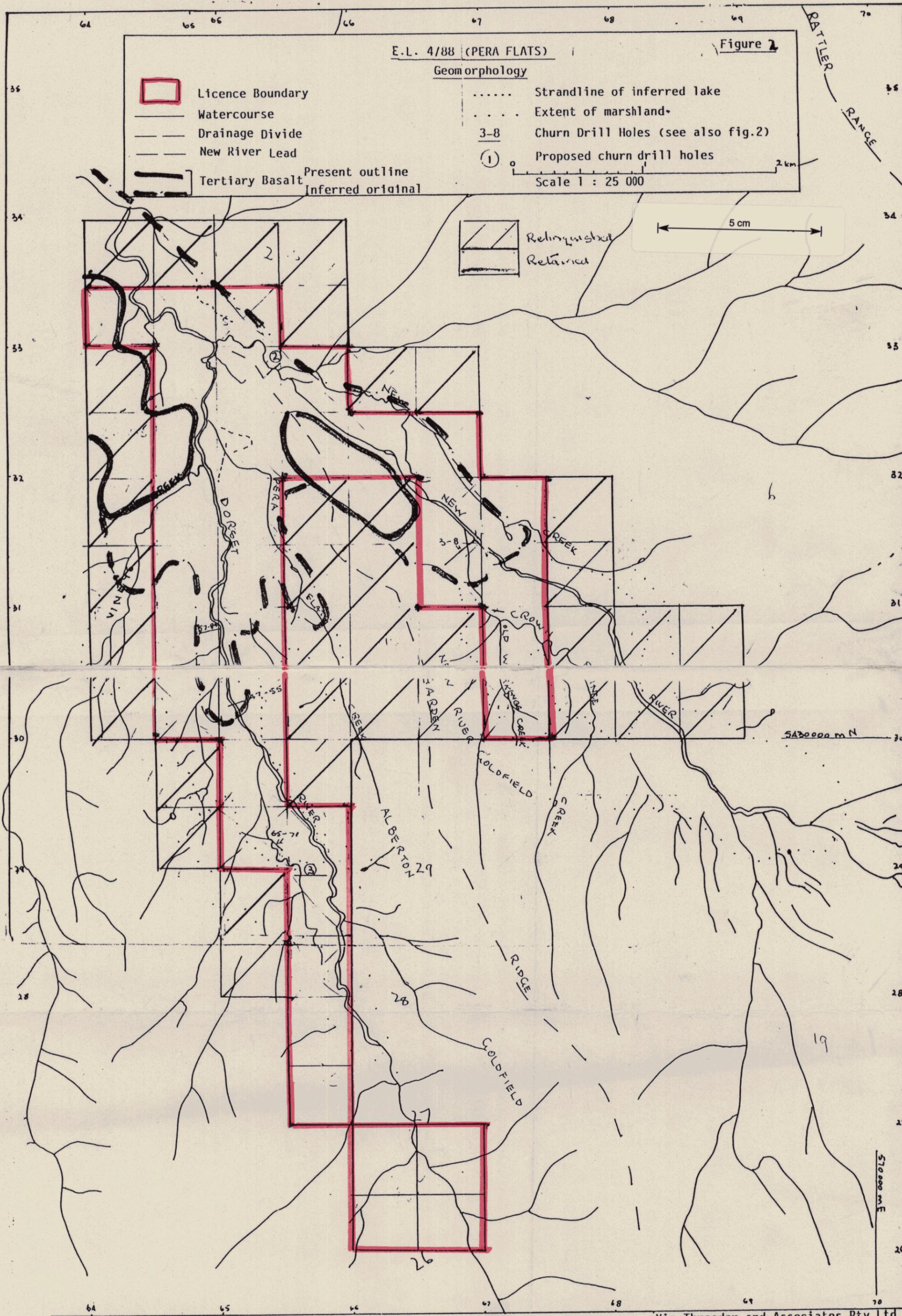
 Tertiary Basalt Present outline  
 Inferred original

Scale 1 : 25 000

2 km

5 cm

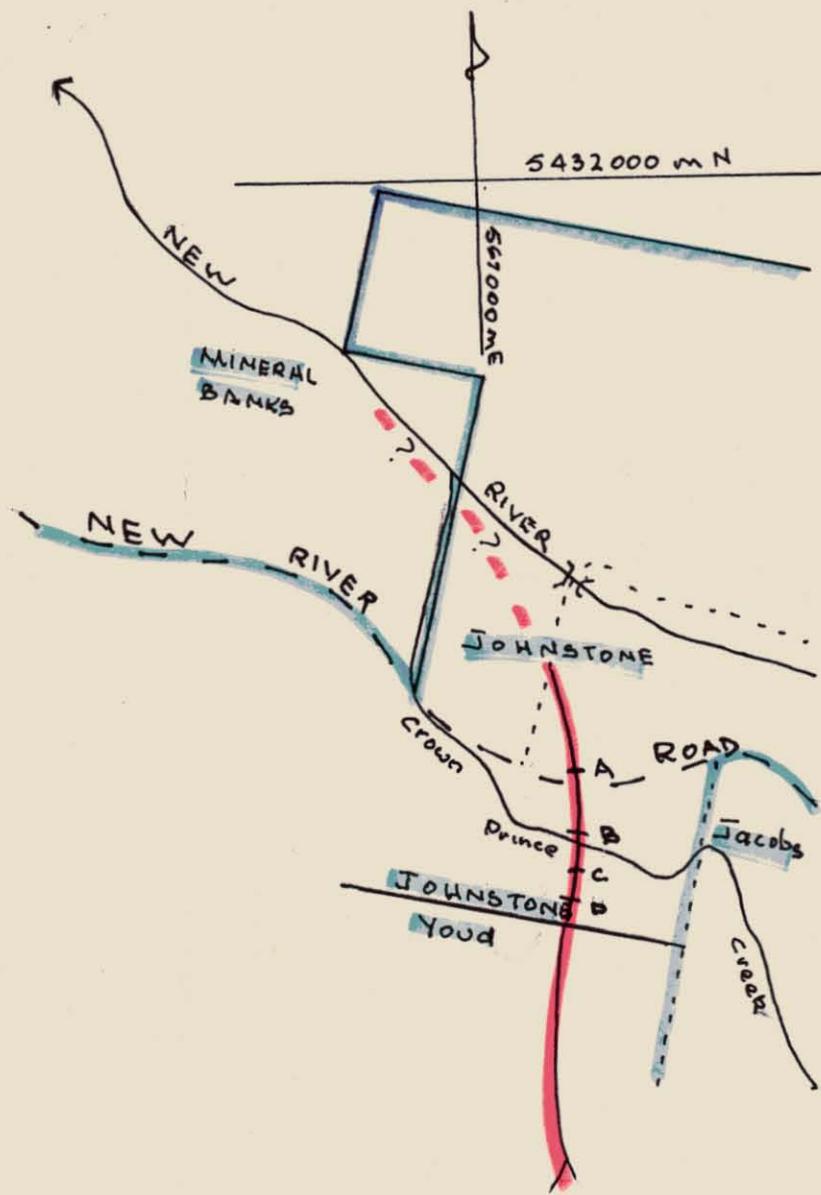
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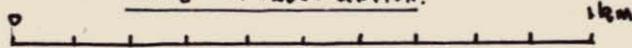
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EL 4/88 PERA FLATS

NEW RIVER LEAD



Scale 1:12500 approx.



- A-D Prospect trench
- Property boundaries
- Alluvial deep lead

