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ANNUAL REPORT, EL 9/86

ALFRED RIVER AREA

PERIOD 2.7.89 TO 1.7.90

NOTIFIED

FINAL REPORT - RELINQUISHMENT

OPEN FILE

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**FIGURES**

**FIGURE 1: EL9/86 LOCALITY MAP**

**FIGURE 2: ACCESS, AREA OF INTEREST**

**ANNUAL REPORT, EL 9/86, ALFRED RIVER AREA  
PERIOD 2.7.89 TO 1.7.90**

**INTRODUCTION**

Exploration Licence 9/86 covers an area of 33 square kilometres (Figure 1) in Western Tasmania. Access into the area is good via the Pieman Dam Road, and then walking tracks to the Alfred River area (Figure 2).

The area covers sections of the Little Wilson River, Alfred River and Limestone Creek and associated tributaries which in the first quarter of the century were prospected locally and worked for alluvial concentrations of osmiridium and gold.

Pioneer Resources' exploration target are high  $\text{Cr}_2\text{O}_3$  grade chromite alluvials with by-product osmiridium, gold and cassiterite.

**PREVIOUS EXPLORATION ACTIVITY BY PIONEER RESOURCES**

Stream sediment samples (approximately 10kg <2mm fraction) were collected from trap sites in Limestone Creek, Little Wilson, Alfred River and its tributaries and the Huskisson River. A sub-sample of the stream sediment was panned to a concentrate and examined for visible content of minerals of interest (i.e. chromite, PGM's (osmiridium), gold and cassiterite).

The remaining sample was processed at a Perth laboratory by wet tabling, magnetics and a heavy medium (TBE) to produce magnetic and non-magnetic heavy mineral concentrates for microscopic examination.

Photogeological work located high level gravels in the southern part of the Alfred River basin straddling EL 9/86 and EL 14/86 held by Black Horse Mining N.L.-M.G. Creasy.

Previous work by Renison/Goldfields indicated that the geochemistry and heavy mineral anomalies in the central-northern part of the Alfred River Basin was attributable to heavy minerals shed from high level alluvial deposits containing sub-economic cassiterite, gold and PGM's with abundant chromite from a former drainage or sheet wash system now dissected in perched remnants by the present deeply incised youthful drainage.

Mineralogical/chemical examination of the chromite shed from this southern area revealed clean rounded grains not associated with magnetite and having high chrome contents (60-66% Cr<sub>2</sub>O<sub>3</sub>).

#### **EXPLORATION ACTIVITY PERIOD 2.7.89 TO 1.7.90**

The photo-interpreted high level gravels straddling EL 9/86 and adjacent EL 14/86 were investigated during the period. These gravels appear to dip to the northeast and are dominantly in EL 14/86. Approximately 18 ha of gravels appear to lie within EL 9/86 (refer Figure 2 - area of interest). As the potential volume of the gravels is small (<500,000m<sup>3</sup>) and agreement on a combined exploration programme with the adjacent licence holders of EL 14/86 has not been forthcoming Pioneer Resources has relinquished exploration interest in the licence.

#### **EXPENDITURE STATEMENT**

Expenditure for the reporting period was \$6,085.00.

### EL 9/86 Locality Map

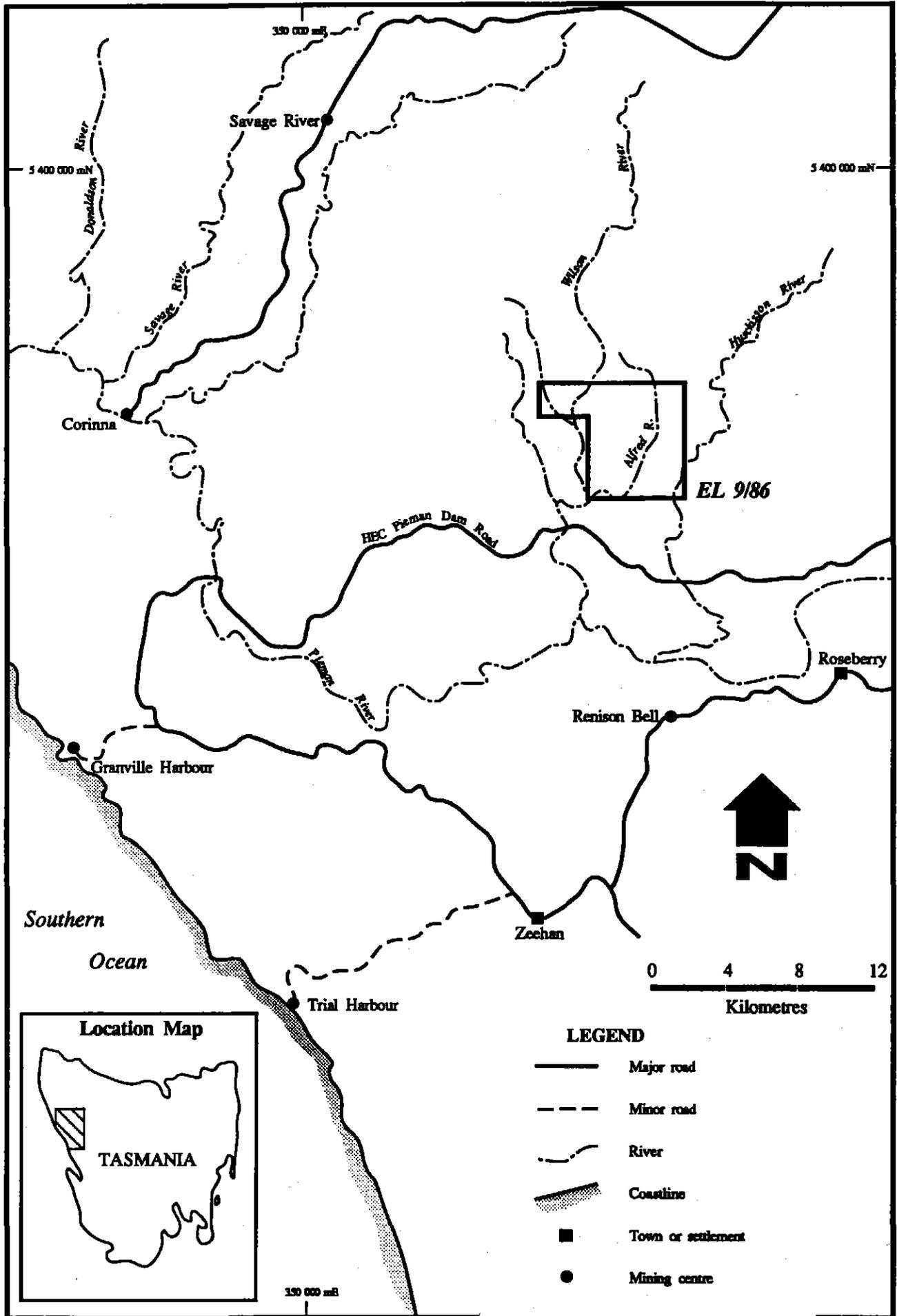


Figure 1

### EL 9/86 Access and Campsite Locations

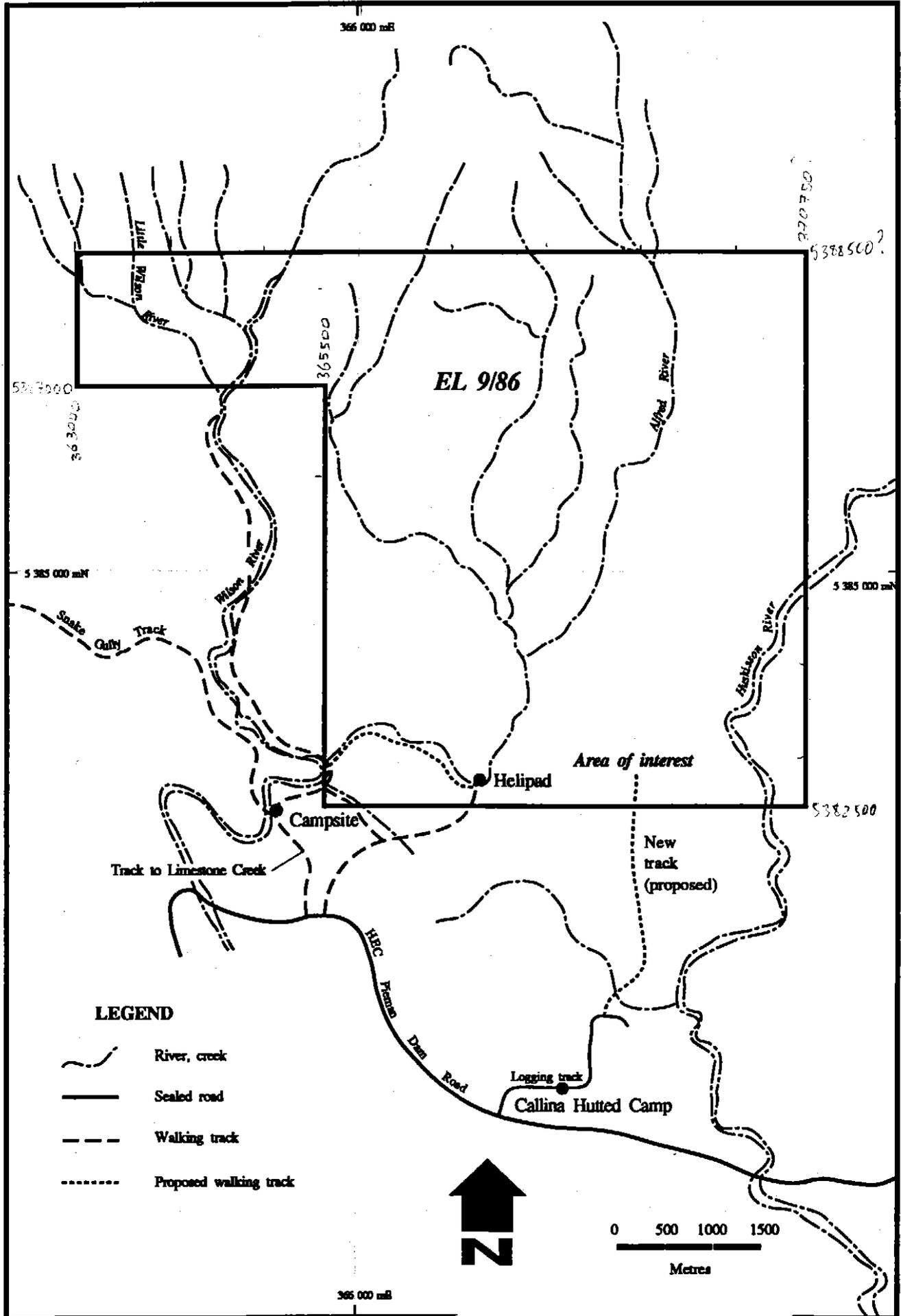


Figure 2