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Relinquishment Report - EL27/97 - Temma Area

Newnham Exploration and Mining Services; Pacific-Ne  
Newnham, L.A. EL27/1997

**PACIFIC-NEVADA  
LIMITED PARTNERSHIP**

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**EL 27/97 - TEMMA AREA**

**RELINQUISHMENT REPORT**

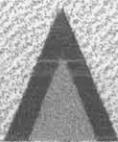
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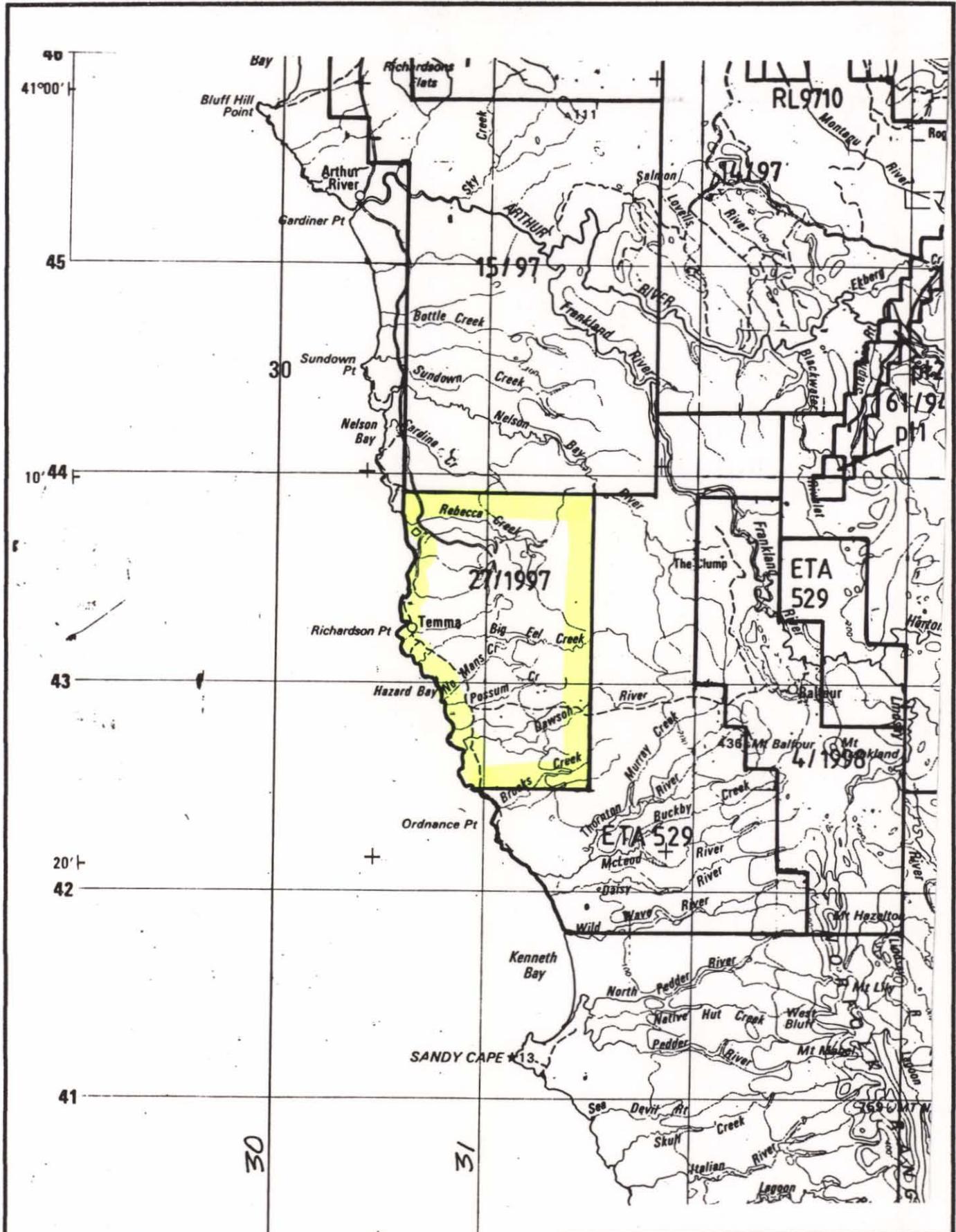
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MINERAL RESOURCES		
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NEWNHAM EXPLORATION AND MINING SERVICES		
PACIFIC-NEVADA LIMITED PARTNERSHIP		
<b>EL 27/1997 - TEMMA LOCATION PLAN</b>		
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**Map:****Fig 1. Location Plan****1: 250,000**

## 1. EXPLORATION BACKGROUND and PHILOSOPHY

In 1997 research investigations by Pacific-Nevada Mining Pty Limited identified the Proterozoic in western Tasmania as being both highly prospective for gold and copper deposits, and largely underexplored.

Pacific-Nevada undertook a major re-assessment of available State geological, magnetic and gravity data sets. This project led to the identification of major deformational and structural events which affected the proterozoic. Tenement acquisition strategies focused on regions where these trends were interpreted as intersecting.

Pacific-Nevada identified five north-west trending crustal features which were termed "focal structures" (FS), and assigned the names (south to north) *Macquarie Harbour FS*, *Savage River FS*, *King Island FS*, *Devonport FS*, and *Launceston FS*.

Also identified was a series of structural extension zones (deformational zones) which trended generally N-S, thereby cutting the focal structures. These extensional zones included the Arthur Metamorphic Complex, the Smithton Zone, Montagu Zone and Mary Hall Zone.

Principal target styles were:

- Proterozoic iron formation hosted gold (Homestake)
- Proterozoic iron formation hosted Au-Cu pipes (Selwyn)
- Proterozoic Cu-Au shoots or pipes (Tennant Creek)
- Proterozoic stratiform Cu (Michigan)

EL 27/97 was acquired because it covered Proterozoic sequences between the interpreted Savage River and Macquarie Harbour Focal Structures and their intersection with the Montagu Zone of deformation.

Mineralisation was known from historical mining and previous drilling to exist at a number of locations within the licence area.

## 2. WORK COMPLETED

Exploration on EL 27/97 was focused on aeromagnetic anomalies identified from an interpretation of the AGSO aeromagnetic data. These anomalies were regarded as prospective for Au and Cu-Au deposits hosted by either Proterozoic iron formations or iron rich pipes.

Anomalies at Strickland and Possum were considered worthy of drilling. A program of three (3) drill holes was completed on Strickland in July 2000.

Two zones of mineralisation were identified:

- a N-S trending steeply east dipping eastern pyrite-magnetite zone containing minor gold (up to 2.2 g/t)
- a N-S trending west dipping western pyrite-chalcopyrite-magnetite zone which appears to correspond with the main line of historical workings

These results were interpreted as sufficiently encouraging to warrant possible further work.

The planned drilling at Possum was not completed.

### 3. REFERENCES

- (a) *"Pacific-Nevada Pty Ltd, Temma Area, NW Tasmania. Geophysical Modelling"*, by N Hungerford, Flagstaff GeoConsultants, August 1999
- (b) *"EL 27/97 Temma. Annual Report to 12.11.99"*, by NJ Turner Geological Services Pty Limited, 9th November 1999
- (c) *"Pacific-Nevada Mining Pty Limited, EL 27/97 - Temma, Strickland Drilling Program, July 2000"*, by Newnham Exploration & Mining Services, 08 August 2000