

NEWNHAM EXPLORATION & MINING SERVICES

PACIFIC-NEVADA MINING
PTY LIMITED

MICROFILMED

FICHE No. 015556-

EL 23/97

RELINQUISHMENT REPORT

MINERAL RESOURCES		
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Relinquishment Report - EL 23/1997 - Pegarah

Newnham Exploration and Mining Services; Pacific-Ne
Newnham, L.A. EL23/1997

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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 23/97 was acquired because it covered an area of King Island interpreted as lying in the intersection area of the King Island Focal Structure and the N-S Mary Hall Zone of deformation. The area is underlain by proterozoic sediments and granites, Cambrian sediments and mafic volcanics, all intruded by Carboniferous granites.

The Tertiary cover is thick and outcrop is generally poor, and largely restricted to coastal areas. This represented a major obstacle to systematic exploration.

2. WORK COMPLETED

Pacific-Nevada undertook regional stream sediment and rock-chip sampling programs in conjunction with regional mapping. This work was focused principally in the Mary Hall Zone.

These programs were all severely compromised by poor outcrop and agricultural activities.

Assay results from the few reliable stream sediment and rock-chip samples were of a low order and further work was difficult to justify.

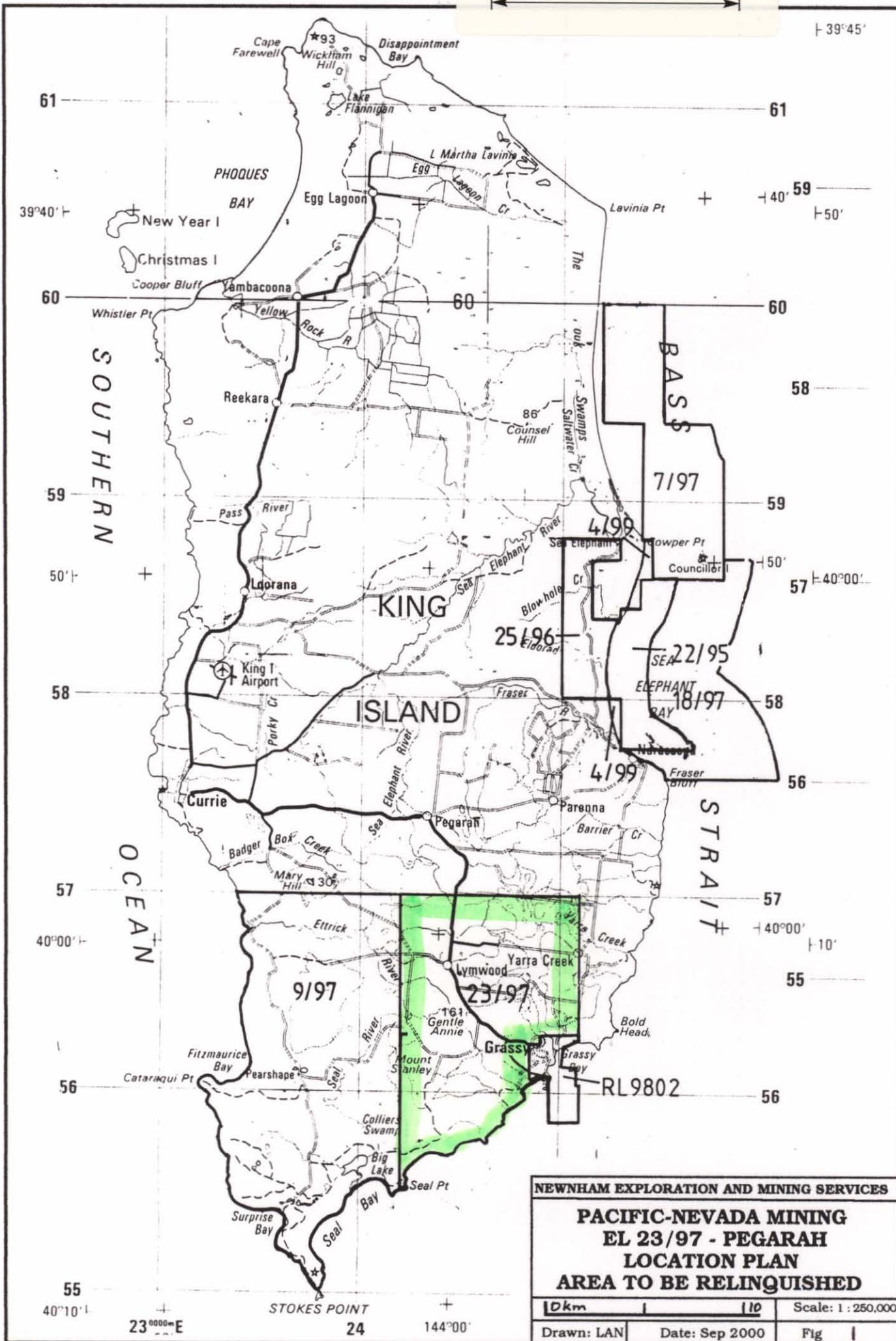
3. REFERENCES

- (a) "EL 23/97 Report on Exploration Activity 12-12-97 to 12-12-98", by Pacific-Nevada 98-4241
- (b) "EL 23/97 Partial Relinquishment Report", by Pacific-Nevada, June 1999 99-4331

658006

5 cm

39°45'



NEWNHAM EXPLORATION AND MINING SERVICES

**PACIFIC-NEVADA MINING
 EL 23/97 - PEGARAH
 LOCATION PLAN
 AREA TO BE RELINQUISHED**

10km	10	Scale: 1 : 250,000
Drawn: LAN	Date: Sep 2000	Fig 1