

NEWNHAM EXPLORATION & MINING SERVICES

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**PACIFIC-NEVADA MINING
PTY LIMITED**

EL 4/98 - BALFOUR AREA

**PARTIAL RELINQUISHMENT
REPORT**

OPEN FILE

MINERAL RESOURCES		
FILE REF: EL4/98		
- 9 OCT 2000 PTL		
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See folio	49	
RESUMANT TO	DATE	

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01 October 2000

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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.

EL 4/98 was acquired because it covered a 25 km long zone of copper mineralisation known as the Balfour Copper Trend. This zone cross-cuts the Savage River FS and is further influenced by a number of substantial structural events.

Pacific-Nevada considered EL 4/98 as prospective for the following deposit styles:

- (a) stratiform copper deposits
- (b) stratabound copper-gold deposits
- (c) Sedex lead-zinc deposits
- (d) carbonate replacement deposits

2. AREA TO BE RELINQUISHED

The areas of known mineralisation proximal to the main Balfour Copper Trend are perceived as being the most prospective.

Those areas most distal to this trend are to be relinquished, and these areas are shown on the attached 1:250,000 plan.

3. WORK COMPLETED

Pacific-Nevada undertook the following work in the first year of tenure:

- (a) review of previous exploration
- (b) regional stream sediment surveying targetting areas with Au potential, combined with reconnaissance rock-chip sampling
- (c) airborne EM-magnetic survey

(a) Data review:

Three areas were identified as warranting further investigation:

- Balfour Shear Zone north of Murrays Reward and south of the Roger River Fault
- the Clump Area
- gravity anomalies in the north of the licence area

(b) Geochemical surveys:

Stream sediment gold and base metal values were generally very low, apart from a few isolated anomalous values.

Rock-chip sample results taken in conjunction with the stream sediment work also produced low results.

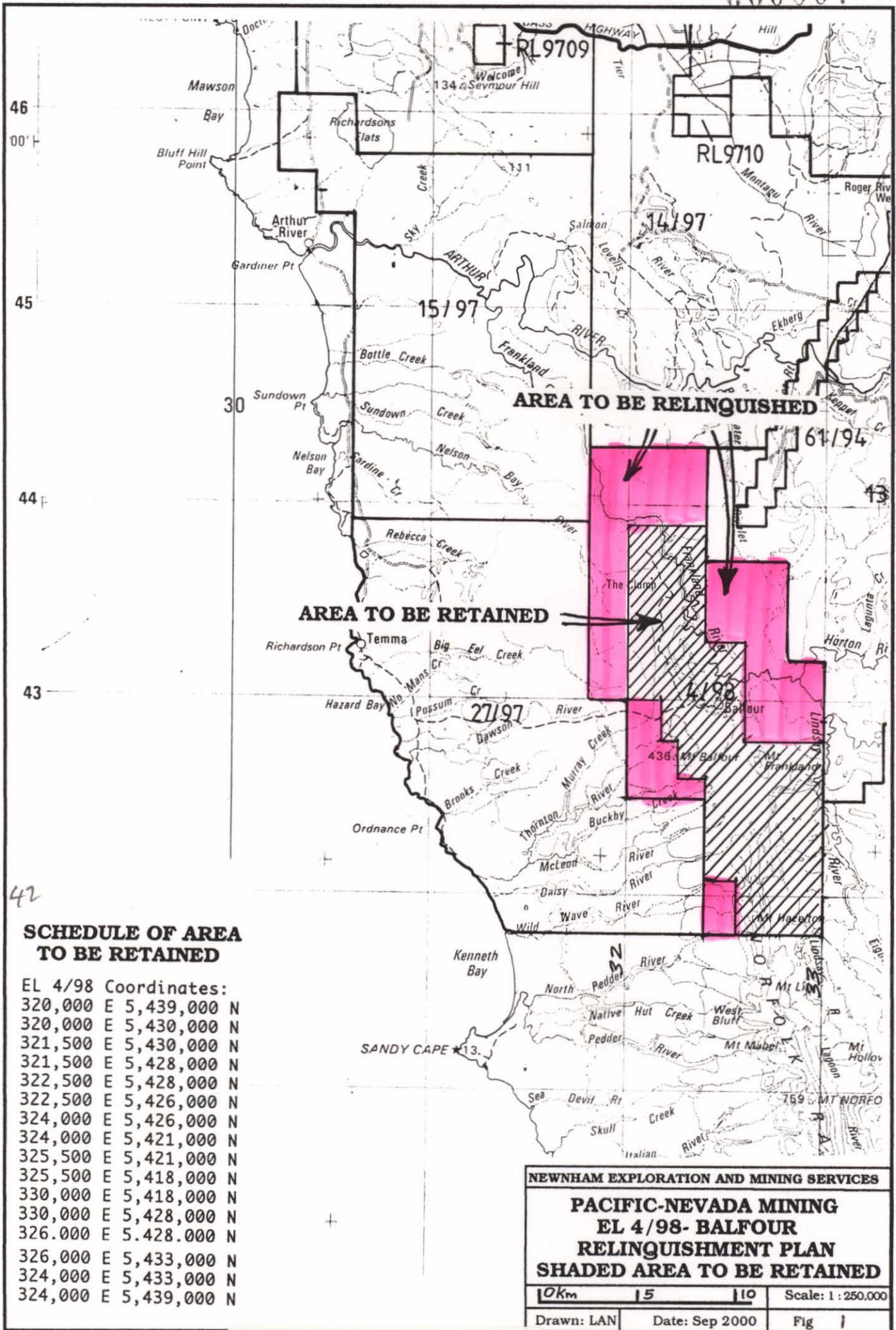
(c) Airborne geophysics:

These surveys extended as far south as Murrays Reward. No EM responses were recorded co-incident with known copper mineralisation.

Follow-up work was recommended in Year 2 but was not implemented.

4. REFERENCES

- (a) *"Pacific-Nevada Mining Pty Limited Tender Submission ETA 464, Balfour Region"*, by LA Newnham 1998
- (b) *"EL 4/98 Report on Exploration Activity 10-7-98 to 10-7-99"*, for Pacific-Nevada
- (c) *EL 4/98: Exploration Licence Annual Review Form F7* for the period to 10 June 2000



SCHEDULE OF AREA TO BE RETAINED

EL 4/98 Coordinates:

320,000 E	5,439,000 N
320,000 E	5,430,000 N
321,500 E	5,430,000 N
321,500 E	5,428,000 N
322,500 E	5,428,000 N
322,500 E	5,426,000 N
324,000 E	5,426,000 N
324,000 E	5,421,000 N
325,500 E	5,421,000 N
325,500 E	5,418,000 N
330,000 E	5,418,000 N
330,000 E	5,428,000 N
326,000 E	5,428,000 N
326,000 E	5,433,000 N
324,000 E	5,433,000 N
324,000 E	5,439,000 N

NEWHAM EXPLORATION AND MINING SERVICES

PACIFIC-NEVADA MINING
EL 4/98- BALFOUR
RELINQUISHMENT PLAN
SHADED AREA TO BE RETAINED

0Km	15	10	Scale: 1 : 250,000
Drawn: LAN	Date: Sep 2000	Fig 1	

5 cm