

**EL 15 / 1999 - LYNCHFORD AREA**

**RELINQUISHMENT REPORT**

*Prepared for:*

**ASARCO Exploration Company Inc.**

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*Prepared by:*  
**Lindsay Newnham, Bsc, FAusIMM, CPGeo**  
**Newnham Exploration and Mining Services**  
**PO Box 183 Exeter Tasmania 7275**  
**Ph: (03) 6394 3434 Fax: (03) 6394 3435**

## **1. EXPLORATION PHILOSOPHY and BACKGROUND**

EL 15/1999 is underlain by a sequence of lower Palaeozoic sediments and upper Cambrian volcanics, situated in a structurally deformed zone between the main Mt Read Volcanic belt to the east and the Palaeozoic Henty Basin to the west.

Previous exploration in the area defined substantial geochemically anomalous zones of Au-As mineralisation associated with disrupted sediments adjacent to major fault zones.

Historical small-scale gold mining had taken place on several of these anomalous zones, notably the Coupon, Davie, Woodie Hill and 24-28 Anomalies.

ASARCO was of the view that the shallow small-scale gold mineralisation and zones of Au-As anomalism may have been reflecting leakage of mineralisation along structures from a deeper auriferous alteration zone within the underlying Mt Read Volcanics, of a style similar to the major Henty gold deposit to the north of Lynchford.

## **2. WORK COMPLETED**

Work by ASARCO focused on a detailed ground assessment of the Davie anomalous zone and a review of new regional geophysical data acquired by Mineral Resources Tasmania (MRT).

The Davie Anomaly was gridded, mapped in detail and soil and rock chip sampled. Mapping defined a 200 m long faulted exposure of sheared ferruginous sediments which was strongly gold and arsenic anomalous in both soil and rock samples.

Airborne radiometric, magnetic and (in part) E-M data recently acquired by MRT over the Lynchford area highlighted the prominent extension of the Harvey Creek Fault through EL 15/1999. Most of the known gold mineralisation is associated with this structural zone. A review of available data suggested that Henty deposit style targets within EL 15/1999 would be concealed beneath Palaeozoic sediments, and the depth of concealment would increase from south to north across the licence area.

The prospectivity for commercial Henty style gold deposits would thus be higher in the south (around Coupon) than in the north (around Davie).

### **3. ENVIRONMENTAL DISTURBANCE and REHABILITATION**

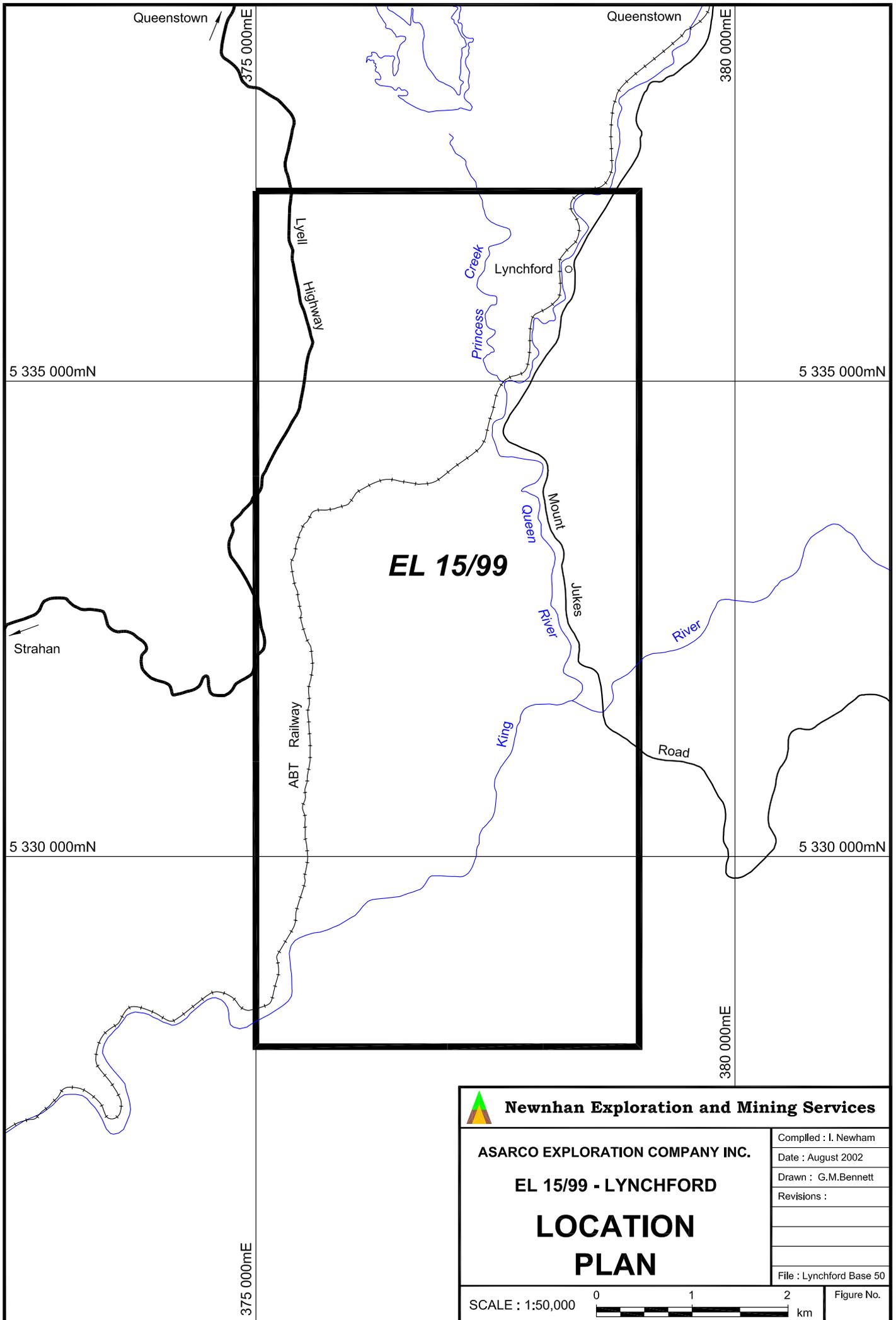
The only ground activities undertaken on EL 15/1999 by Asarco were geological and geochemical surveys over the Davie Anomaly. To facilitate these surveys, 1,950 m of walking tracks were cut through light scrub which had been recently burnt. The tracks consisted of one 350 m long base line and eight 200 m cross lines.

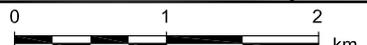
These tracks were cut mainly in fallen timber and no rehabilitation work was warranted.

#### **4. REFERENCES**

- (i) *“ASARCO. Lynchford Project. Initial Investigations of Davie and 24-28 Anomalies”* for ASARCO by LA Newnham, 20 June 2000
- (ii) *“Report on Geological Mapping, Rock Chip and Soil Sampling at the Davie Anomaly - Lynchford Project Western Tasmania EL 15/1999”* for ASARCO by Robert Reid, 05 February 2001
- (iii) *“Assessment of Recent Airborne Data Over EL 15/1999 Western Tasmania”* for ASARCO by Lindsay Newnham, June 2002
- (iv) *“EL 15/1999 - Lynchford Area Western Tasmania Annual Report for Year Ending October 2002”* for ASARCO by Lindsay Newnham, 11 September 2002

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 <b>Newnhan Exploration and Mining Services</b>	Compiled : I. Newham
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