

OPEN FILE

96-3819

DEVELOPMENT & RESOURCES
5 - JAN 1996
ROSNY

732001

HERALD RESOURCES LTD.
40 Kings Park Rd
West Perth, Western Australia
6872

EL 45/94	
- 8 JAN 1996	
See folio 23	

MICROFILMED
FICHE No. 013830-

EL 45/94 MT CAMERON, TASMANIA

RELINQUISHMENT REPORT

AMG REFERENCE POINTS ADDED

Prepared by:

N.J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart
Tasmania 7000

5th January 1996

96-3819

EL 45/94 MT CAMERON RELINQUISHMENT
REPORT 1995-96 - HERALD RESOURCES -
TURNER, N J

Table of Contents

	Page No
Summary and Recommendations	3
Tenement Information	3
Work Carried Out	
Regional geophysics	4
Regional stream sediment survey	4
Geology	5
Results	
Regional geophysics	5
Regional stream sediment survey	5
Geology	6
Conclusions	6
References	7
Appendix 1 : Analytical results for stream sediment samples.	8
Fig. 1 : Location of EL 45/94.	
Plan 1 : Geology and stream sediment sample locations.	

SUMMARY AND RECOMMENDATIONS

1. Herald Resources Ltd Took up EL 45/94 from 6.1.95 in order to explore for gold.
2. The likely host rocks are the Ordovician-Devonian Mathinna Beds, a folded sequence of turbiditic sandstone, siltstone and mudstone which is intruded by Devonian-Carboniferous granitoids.
3. The likely styles of gold mineralisation are quartz veins lodes, and stockworks.
4. Work carried out included regional gravity and aeromagnetic interpretation together with regional stream sediment geochemistry (minus 80 mesh).
5. No direct or indirect evidence of significant gold mineralisation was recognised.
6. Probably-anomalous values of tin are present in the stream sediments but tin within the geological environments recognisable in EL 45/94 is not currently one of Herald's target commodities.
7. The exploration licence is to be relinquished rather than renewed.

TENEMENT INFORMATION

Exploration Licence 45/94

Area 69 SKm

Land District of Dorset

Vicinity of Mt Cameron

Municipality of Dorset

Commencing at the south east corner at grid coordinates 582 000 metres E 5 462 000 metres N thence grid west to 570 000 metres E grid north to 5 468 000 metres N grid east to 582 000 metres E aforesaid thence grid south to the point of commencement.



FIG. 1

Locations of mineral exploration licences held by Herald Resources Ltd. in North East Tasmania.

The area excludes: 0.2 skm Crown Reserves
2.9 skm Gladstone Fossicking area

Exploration Licence 45/94 was granted from 6.1.95 and is to be relinquished 6.1.96. The licence is contiguous with Herald Resources Ltd's block of NETGOLD tenements which comprise EL 23/94, EL 24/94 and EL 25/94. Overall the block of tenements extends from near Branhholm northwards to Waterhouse then east to Boobyalla and Mt Cameron (fig.1)

WORK CARRIED OUT

Regional Geophysics

The parts of Mineral Resources Tasmania's NETGOLD geophysical package that are relevant to Herald's block of tenements were processed by Robert Richardson of Industry Safety and Mines and interpreted by David Leaman of Leaman Geophysics.

Data of principal interest in the NETGOLD package comprises aeromagnetic and gravity measurements. The interpretation took into account the results of earlier geophysical surveys in NE Tasmania and considered the relationship of structural trends derived from geological and topographic maps.

Plans showing the processed NETGOLD data are incorporated in the interpretive geophysical report (Leaman, 1994) which has been submitted to Industry Safety and Mines as a companion volume to this relinquishment report. The interpretive geophysical report is equally a companion volume to reports on EL's 23, 24 and 25/94.

Regional Stream Sediment Survey

A minus 80 mesh stream sediment survey of streams draining the Mathinna Beds was carried out in all of Herald's tenements. In EL 45/94 some 47 samples were collected. The sample locations are shown in Plan 1.

The samples were analysed by Analabs for copper, lead, zinc, gold and arsenic. Gold was analysed by fire assay. Assay results are listed in Appendix 1.

Geology

A limited amount of geological transversing was undertaken in an attempt to locate greisen bodies around 577300E5465200N near the old Monarch alluvial tin mine (Baillie et al, 1979).

RESULTS

Regional Geophysics

The geophysical interpretation assigned most importance to features identified in the gold mineralised areas of Warrentinna, Forester and Lyndhurst which are all outside EL 45/94. Other, lower priority features were also recognised and one of these lies on the northern boundary of EL45/94

The feature is close to the Boobyalla Road near 578500E5468000N. It occurs over thermally metamorphosed Mathinna Beds adjacent to a contact with garnetiferous granite (Ballie et al, 1979)

Regional Stream Sediment Survey

Graphical treatment of the stream sediment data for Mathinna Bed drainages in all of Herald's tenements indicates that results greater than the following values can be regarded as unusually high : copper 40ppm, lead 30ppm, zinc 140ppm, gold 0.008ppm (detection limit) and arsenic 10ppm. In the case of arsenic there is a tiered effect with some tracts of country displaying elevated values of 10-25ppm and very limited areas displaying values higher than 25ppm. These higher arsenic values are a feature of the old gold mining areas at Warrentinna and Forester though there is not an exact correspondence in the distribution of anomalous values of the metals within these two areas.

No gold was detected in EL 45/94 and there are no anomalous copper

values. Lead in four samples exceeds 30ppm. One zinc value of 196ppm is anomalous and three arsenic values are elevated. The samples which are anomalous in the various metals are scattered and do not define any coherently anomalous drainage systems or areas.

Laboratory residues of most stream sediment samples were assessed for tin analysis but in many cases there was insufficient sample to allow the analysis. Too few samples were analysed to determine an anomaly cut-off. However, it is likely that many results are elevated or anomalous because of the widespread presence in EL 45/94 of tin-bearing Tertiary gravels.

The highest tin value of 104ppm is from a stream section developed on Tertiary gravel and a value of 72ppm was returned from an area of old alluvial mines. A value of 75ppm at 573200E5467850N is not obviously related to Tertiary deposits.

Geology

The greisen bodies near the old Monarch mine were not confidently identified in the field. However, a medium grained quartz-muscovite granitoid was found as minor lag near 577450E5464950N. Analabs returned the following assay of this probable greisen :

Sample Number	Cu	Pb	Zn	Au	As
H927	3	9	5	<0.008	<0.5 (all ppm)

CONCLUSIONS

(1) No evidence of gold mineralisation has been found in EL 45/94, either directly or indirectly through the possible implication of other anomalous metals.

(2) No anomalous metal values were returned from stream sediment samples in the vicinity of the geophysical feature near 578500E5468000N.

REFERENCES

Baillie, P.W., Turner, N.J., Cox, S.F., 1979. Geological Atlas of Tasmania
1:50 000 Series, Sheet 84165, Boobyalla. Dep. Mines Tasm.

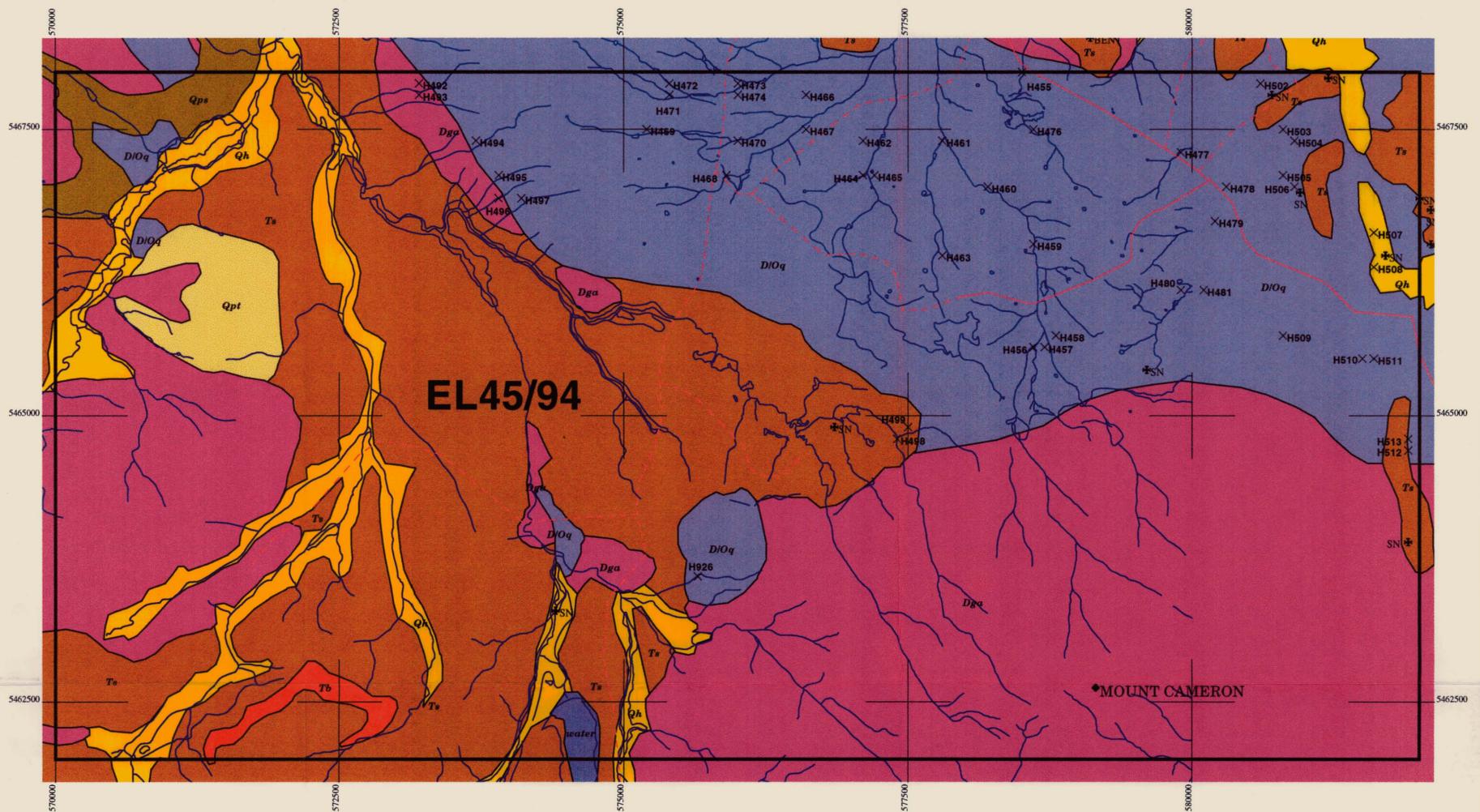
Leaman, D.E., 1994. Regional review geophysical data north east
Tasmania- EL 23, 24, 25/94 for Herald Resources Ltd.
Consultant's report to Herald Resources Ltd.

**APPENDIX 1 : Analytical data for stream
sediment samples from Herald Resources Ltd's EL
45/94 Mt. Cameron, NE Tasmania**

Analyst : Analabs Pty Ltd
 14 Thirkell St
 Cooee
 Tasmania 7320

Analabs codes

SR Prep : GP007, GP031, GP033
Cu, Pb, Zn/GA140, As/HA140
As/GA140
Au, Au (R)/GG309
Au/GG340



LEGEND

- Herald Resources stream sediment sample with identification number
- Mine and its major commodity (Mirloch dataset)
- Locality (Auslig 250k data)
- Primary road
- Secondary road
- Minor road (Auslig 250k data)
- Track - other roads
- Watercourse (Land & Information Bureau 25k data)

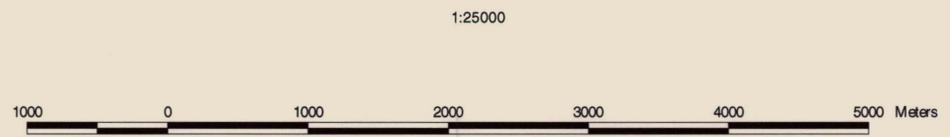
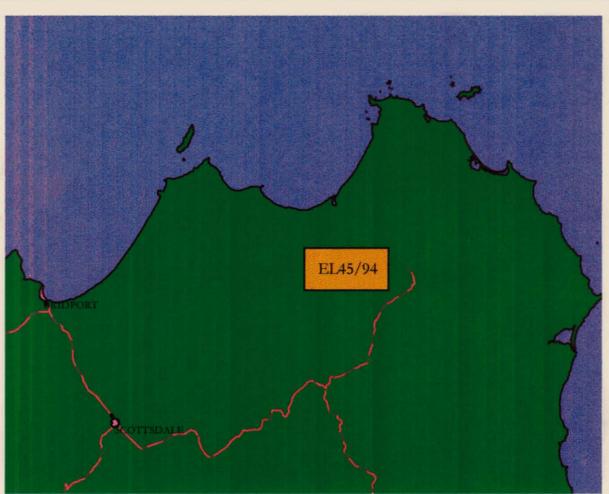
GEOLOGY

- | | | | |
|-------------------------------------|--|-------------|--|
| QUATERNARY | | Qh | Alluvium, sand and gravel |
| | | Qps | Coastal sands |
| | | Qpt | Talus |
| TERTIARY | | Ts | Non-marine sands |
| LOWER DEVONIAN-
LOWER ORDOVICIAN | | D/Oq | Micaceous quartz wacke sequences (Mathinna Beds) |
| Igneous Rocks | | | |
| TERTIARY | | Tb | Flow basalts |
| JURASSIC | | Jd | Dolerite |
| DEVONIAN | | Dga | Adamellite / granite |

96-3819

EL 45/94 MT CAMERON RELINQUISHMENT
REPORT 1995-96 - HERALD RESOURCES -
TURNER, N J

LOCATION MAP



Geology and Mirloch data courtesy of Mineral Resources Tasmania from the 1:250,000 Northeast sheet. Data covering cultural features (roads and localities) courtesy of Auslig 1:250,000 series sheet K5521. Drainage from Tasmanian Land & Information Bureau 1:25,000 series sheets 5645 and 5646. Map produced using Arcview 2.1. All map coordinates in AMG zone 55.

732011

HERALD RESOURCES LTD.

SCOTTSDALE PROJECT TASMANIA
Geology and Stream Sediment Sample Locations
EL45/94

AUTHOR	N.T.	PLAN No.	1
OPERATOR	N.J.M.	Arcview Project	EL4594.APR
DATE	2-1-96	LAYOUT	1