

OUTOKUMPU EXPLORATION AUSTRALIA PTY LIMITED

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FINAL REPORT
 EL 42/85, LAKE MACKINTOSH, TASMANIA
 Summary of Exploration 1986-1990

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For: Outokumpu Exploration Australia Pty Limited /
 Pancontinental Mining Limited

By: G. McKay (Outokumpu)

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509003

MT CRIPPS

400 000 E

390 000 E

HIGHWAY

MT CHARTER

Vale River

539 000 N

BULGOBAC HILL

MT BLOCK

MURCHISON

CRADLE MTN
LAKE ST. CLAIRE
NATIONAL PARK

Fury R.

MT ROMULUS

LAKE
MACKINTOSH

MT SWALLOW

538 000 N

LAKE
ROSEBERRY

TULLAH

MT FARRELL

5 cm

Billiton Australia
The Metals Division of the Shell Company of Australia Limited

Project: LAKE MACKINTOSH

Title: EL 42/85
LOCATION AND ACCESS

Author: CJC	Date: 3/89	Scale: 1:100 000
Drawn: OH	Office: TAS	Revised: Date
Drawing No: D/LJ 80/003	Fig. No. 1	

537 000 N

1. INTRODUCTION

This Final Report summarises exploration carried out on Lake Mackintosh EL 42/85 near Roseberry in western Tasmania.

EL 42/85, covering an area of 9 km², was granted to Pancontinental Mining Limited on 24 April 1986. The licence was operated by Pancontinental under joint venture with Outokumpu Oy of Finland (replaced by Outokumpu Exploration Australia Pty Limited) - the Panfin Joint Venture. The partners were later joined by Billiton Australia as the operator in 1988-89.

Billiton withdraw from the joint venture in mid-1989 and attempts to interest other joint venture partners in the project were not successful. The tenement was surrendered on 19 March 1990.

2. PREVIOUS EXPLORATION SUMMARY

Chronological Summary of Exploration Activities

1. From June to August 1986 a stream sediment geochemical survey was conducted. Every 200m along a 6km long base line grid lines were cut covering almost the entire E.L. and geological mapping carried out on grid lines and all the other access points. 126 stream sediments, 4 bulk leach extractable gold and 14 panned concentrate samples were collected. Results were presented on 1:5000 scale maps.
2. During October to December 1986 a UTEM geophysical survey was completed on 30 lines from 150m to 1500m in length and totalling 28.3km.
3. In May and June 1987 a combined UTEM and zinc drainage geochemical anomaly was followed up with C-horizon geochemical smapling, geological re-mapping and rock chip sampling. Weakly anomalous gold in - 80 mesh sediment samples and an occurrence of hydrothermal alteration and copper mineralization below the Lake Mackintosh spillway were also followed up in June 1987.
4. In 1987 a whole rock geochemistry study was made of 10 specimens collected from E.L. 42/85 and a report describing the chemical composition and compositional relationships of these lithotypes was compiled.
5. Billiton Australia entered the Panfin Joint Venture in October 1987 and took over as operators.

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6. In November 1987 a time domain I.P. survey with follow up rock chip and auger sampling over anomalous areas was carried out in the vicinity of the Henty Fault.
7. A comprehensive rock chip sampling programme (82 samples) was conducted across the Farrell Sequence.
8. A rock chip geochemical survey was carried out over two earlier identified, weak UTEM anomalies.
9. In March 1989 a further 3.2km grid lines were cut in the Southwest position 9th E.L. Geological mapping, auger geochemical sampling and a UTEM survey were carries out over these grid extensions.
10. No further field work was carried out. A detailed review of exploration to date was conducted and unsuccessful attempts were made to interest other joint venture partners in the project after the withdrawal of Billiton in mid-1989.

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3. LIST OF SUBMITTED REPORTS WITH CONTENTS

1. Airas, K.O., EL 42/85 Lake Mackintosh,
Nov. 1986 Tasmania - Quarterly Report
21/7/86 - 20/10/86
(Pancontinental Mining Limited)

Location and Access, Title, Work completed; geochemistry, gridding, geology; Future Program.

2. Herrmann, W., Notes on geology of EL 42/84
Dec. 1986 Lake Mackintosh.
(Pancontinental Mining Limited) ✓

Geochemical sampling and mapping, descriptions of lithotypes, stream sediment results, alteration and mineralization. Includes assay results, petrological examinations and 2 Plates; Geological and Sample locations.

3. Airas, K.O., Quarterly report for the period
Jan. 1987 to 20th January 1987.
(Pancontinental Mining Limited) ✓

Quarterly Report incorporating Report 2 (above); Lake Mackintosh area UTEM survey.

4. Airas, K.O., EL 42/85, Lake Mackintosh Tasmania
March 1987 Quarterly Report for the period
21/1/87 - 31/3/87
(Pancontinental Mining Limited)

No field work.

5. Airas, K.O., EL 42/85, Lake Mackintosh,
June 1987 Tasmania - Quarterly report for
the period 1/4/87 - 30/6/87
(Pancontinental Mining Limited)

Licence renewal, Summary of work to date, Follow-up ground exploration of UTEM and geochemical anomalies, occurrence of mineralization on Lake Mackintosh Spillway.

6. Herrmann, W., Report on follow up exploration
June 1987 of three anomalous areas at
Lake Mackintosh EL 42/85
May - June 1987. ✓

Technical report on the subject of Report 5 (above).

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7. Airas, K.O.,
Sept 1987
EL 42/45, Lake Mackintosh
Tasmania. Progress report for the
quarter ended 30th September
1987.
(Pancontinental Mining Limited)
No field work.
8. Airas, K.O.,
March 1988
EL 42/85, Lake Mackintosh,
Tasmania. Annual report for the
period from 31/1/87 - 20/4/88
(Pancontinental Mining Limited)
Annual Report incorporating Reports 5 and 7 (above).
9. Creagh, C.J.,
Sept 1988
EL 42/85, Lake Mackintosh,
Quarterly Report on Exploration for
the quarter ended 30 September 1988
(Billiton Australia)
Auger drilling on a base metal anomalous UTEM anomaly.
10. Creagh, C.J.,
Dec. 1988
Quarterly Report on Exploration for
the quarter ended 31 December 1988
(Billiton Australia)
Grid line extensions; mapping; auger geochemical
sampling.
11. Randell, J.P.,
March 1989
Quarterly Report on Exploration for
the quarter ended 31 March 1989
(Billiton Australia)
UTEM survey over grid extensions.
12. Creagh, C.J. and
Hungerford, N.,
March 1989
EL 42/85 - Lake Mackintosh -
Progress Report on Exploration for
the period ending 20th April 1989.
(Billiton Australia)
Annual report for 1988: Introduction; Land Tenure;
Location & Access; Previous Exploration; Geological
Setting; Exploration Completed; Exploration Results; IP
Survey and follow-up, Rock Chip Geochemistry, Pancon UTEM
follow-up geochemistry, Grid extensions mapping and UTEM
survey, Grid extensions auger geochemistry; Conclusions;
Recommendations; References.
13. Randell, J.P.,
June 1989
Quarterly Report on Exploration for
the period ended 30 June 1989
(Billiton Australia)
No field work conducted.

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14. Randell, J.P., Quarterly Report on Exploration for
 Sept. 1989 the period ended 30 September 1989
 (Billiton Australia)

No field work. Billiton decided to withdraw from the
joint venture.

15. McKay, G., Quarterly Report on Exploration for
 Dec. 1989 the period ended 31 December 1989
 (Outokumpu Exploration Australia Pty
 Limited)

No field work.

16. McKay, G., Quarterly Report on Exploration for
 March 1990 the period ended 31 March 1989
 (Outokumpu Exploration Australia Pty
 Limited)

Detailed review of work to date was conducted and
attempts to interest joint venture partners. Exploration
Licence surrendered.