



Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

**First Annual Report
for the Period Ending 22 September 2003,
EL's 1638 Port Keats 1, EL1639 Port Keats 2,
EL1640 Keats, EL1641 Port Keats,
EL192 3Keats 2, EL3403 Barwolla,
EL3404 Fitzmaurice, EL3406 Keyling,
EL6516 Tom Turners Creek,
EL6517 Cui-eci Creek, EL6551 Greenwood,
EL22218 Fitzmaurice 4,
Yambarra Project,
Northern Territory.**

Exploration Report No. 26197

Tenement Holder: Rio Tinto Exploration Pty Limited

Date: October 2003

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1 SUMMARY

EL's 1638 Port Keats 1, EL1639 Port Keats 2, EL1640 Keats, EL1641 Port Keats, EL1923 Keats 2, EL3403 Barwolla, EL3404 Fitzmaurice, EL3406 Keyling, EL6516 Tom Turners Creek, EL6517 Cui-eci Creek, EL6551 Greenwood and EL22218 Fitzmaurice 4 were applied for by Ashton Mining Limited and Ashton Operations Australia Limited ("Ashton") in the late 1970's and early 1980's. The tenements are centered approximately 200 km south west of Darwin on the Daly River / Port Keats Aboriginal Land Trust and consequently are processed under the Aboriginal Land Rights Act 1975 (ALRA).

The project area covers parts of the Palaeoproterozoic Pine Creek Orogen, the Mesoproterozoic Victoria – Birrinduddu Basin and the Palaeozoic Bonaparte Basin.

Exploration completed during the current reporting period was directed at locating a diamondiferous kimberlite / lamproite and has comprised

- Review of previous exploration.
- Completion of consultation meetings and site clearance surveys.
- Interpretation of existing magnetic and TM data.
- Establishment of an exploration camp.
- Collection of 220 helicopter supported gravel and stream sediment samples.
- Collection of 55 rock chip samples from the Murrentja intrusion.

Available results are encouraging given the wide spread nature of the initial sampling and follow up sampling programs and possibly airborne geophysical programs are recommended for the second year of tenure.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	26197 Yambarra Group.pdf	.pdf
Other (specify)	WAp45817.pdf Tenement Location Plan WAp45815.pdf Sample Location Map	.pdf .pdf
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration Surveys		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
Ground Geophysics		
Radiometrics		
Magnetics		
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IP		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment	gravel_Locations.txt stream_Locations.txt Indicator_Results.txt SS_Geochem.txt	WA SG2 WA SG2 WA SG2 WA SG2
Soil		
Rock chip	Rock_Locations.txt Rock_Geochemistry.txt	
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis	Grain_chemistry.txt	.WA SG2
Other (specify)	25615 Yambarra EMP.pdf	.pdf
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	26197 Yambarra Group V.pdf	.pdf