



Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

First Annual Report
for the Period Ending 8th July 2003,
EL 9840 Foelsche River,
Merlin Orbit Diamonds Programme,
Calvert Hills SE 53-08,
Northern Territory,
Australia

Exploration Report No. 26183

Tenement Holder: Rio Tinto Exploration Pty Limited

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RTE Perth Information Centre

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SUMMARY OF ACTIVITIES

EL 9840 Foelsche River is located 105 km south of Borroloola and 32 km south east of the Merlin Diamond Mine, Northern Territory, Australia.

RTE reviewed the historical exploration for EL 9840 during the period. The review failed to identify any kimberlitic targets of immediate interest to RTE.

The area covered by EL 9840 has been previously sampled by Ashton Mining. Several of Ashton's samples contained diamonds and other indicator minerals.

EL 9840 is located over the Neoproterozoic Georgina Basin in the northeast and an uplifted horst block of Tawallah Group and Roper Group belonging to the Mesoproterozoic McArthur Basin in the southwest. NW-SE trending structural lineaments traversing the Merlin kimberlite field can be interpreted to traverse EL 9840. Regional airborne magnetic and gravity data interpretation highlighted major lineaments and geological domain contacts in the region spatially associated with kimberlitic intrusions. The interpretation indicated that EL 9840 is prospective for kimberlite intrusions.

RTE did not carry out any field-based exploration within EL 9840 during the current reporting period. The EL is currently being divested along with neighbouring EL's belonging to the Merlin Orbit Diamonds Project.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	26183 Foelsche River.pdf	.pdf
Other (specify)	WAp45718.pdf (Tenement Location Plan)	.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		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	26183 Foelsche River V.pdf	.pdf