

Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

First Annual Report
for the Period Ending 22nd July 2003,
EL 10189 Wilkinson Creek,
Merlin Orbit Diamonds Programme,
Bauhinia Downs SE 53-03, Wallhallow SE 53-07
and Calvert Hills SE 53-08,
Northern Territory,
Australia

Exploration Report No. 26179

Tenement Holder: Rio Tinto Exploration Pty Limited

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RTE Perth Information Centre

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SUMMARY OF ACTIVITIES

EL 10189 Wilkinson Creek is located 100 km south of Borroloola and 20 km south of the Merlin Diamond Mine, Northern Territory, Australia. The area covered by EL 10189 has received a significant amount of historical exploration for diamonds, mainly surface sampling and airborne magnetic surveys. Ashton Mining completed the majority of this work during the late 1990's while the Merlin Diamond Mine was being evaluated and developed. Bulk samples within EL 10189 had returned up to 75 macro diamonds.

Work completed by RTE within EL 10189 during the current reporting period was as follows:

- Compilation and review of existing geophysical, geochemical and drilling data highlighted six, low priority, airborne magnetic targets and the high priority Tingatel Prospect area where an Ashton bulk gravel sample returned 75 macro diamonds.
- Six ~500 kg bulk gravel samples collected around the Tingatel Prospect area did not return any diamonds. Indicator mineral in the samples were identified as being nonkimberlitic. The results were inconclusive.
- A helicopter-borne Hummingbird EM (HEM) survey, totalling 6200 line km, resulted in ten high priority HEM targets being prioritised for follow up.
- Gravity traverses across ten HEM and six airborne magnetic targets returned favourable kimberlitic gravity responses from targets HUM07T and MAG06T.
- -80# auger soil and –2mm lag soil geochemical samples collected over the 16 prioritised geophysical targets returned anomalous "kimberlitic" geochemistry from six targets.
- Heavy mineral (-1mm) loam sampling over the 16 prioritised geophysical targets failed to return any diamonds. Indicator minerals were identified as being non-kimberlitic.

RTE is negotiating with a selected resource company regarding the divestment of EL 10189 at the time of compilation of this report.

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VERIFICATION LISTING

Exploration Work Type	Eila Nama	Format
Exploration Work Type Office Studies	File Name	Format
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	26179 Wilkinson Creek.pdf	.pdf
7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	WAp45699.pdf (Tenement Location Plan)	.pdf
Other (specify)	WAp45700.pdf (Exploration Summary)	.pdf
Airborne Exploration Surveys	EL10189 Exploration Summary.txt	.txt
Aeromagnetics		
Radiometrics		
Electromagnetics	Tintagel_Hummingbird.csv	CSV
Gravity	Tilitager_i tuttitilitigbilita.esv	COV
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	EL10189 Haines Gravity.txt	txt
Digital terrain modelling		
Electromagne tics		
SP/AP/EP		
IP AAAT		
AMT		
Resistivity Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Other (specify)		
Geochemical Surveying		
Drill sample		
Stream sediment		
Soil	EL10189 Soil -2mm Lag.txt	.txt
	EL10189 -80# Auger Soil.txt	.txt
Rock chip		
Regolith Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis	EL10189 SEM Data.txt	.txt
	EL10189 Gravel Bulk.txt	.txt
Other (specify)	EL10189 Loam -1mm.txt	.txt
Drilling		
Aircore		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling	26470 Wilkinson Crook V ndf	ndf
File Verification Listing (this table)	26179 Wilkinson Creek V.pdf	.pdf