



Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

Annual and Final Report for the
Period Ending 13 July 2003,
SEL 8630 Boomerang Creek,
Bauhinia Downs 53-03,
Northern Territory,
Australia

Exploration Report No. 26456

Tenement Holder:	Rio Tinto Exploration Pty Limited
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SUMMARY OF ACTIVITIES

SEL 8630 Boomerang Creek completely surrounds ML 1154 that encompasses the Merlin diamond mining operations and kimberlite field, Georgina Basin, Northern Territory. SEL 8630 was granted to Ashton Mining Limited on 14th July 1995 for four years. The tenement was originally 110 sub-blocks but was reduced to 55 sub-blocks in 1997. It was renewed in 1999 and 2001 and it expired on the 13th July 2003. SEL application 23899 was lodged by Ashton Mining Limited on 8th May 2003 over SEL 8630 and EL 9893.

The Merlin kimberlite field contains twelve diamond-bearing kimberlite diatremes that have intruded along a N-S alignment. Only the Emu 1 and 2 pipes are located within SEL 8360. The diatremes have intruded the Bukalara Sandstone and are dated as Devonian.

During the term of SEL 8630, Ashton Mining Limited, BHP Minerals and Rio Tinto Exploration Pty Limited ("RTE") completed geological sampling, geophysical and drilling programs exploring for diamonds and base metals. No additional kimberlites were discovered within the tenement area during this period. The exploration activities within SEL 8630 for the period 14th July 1995 to 13th July 2002 are summarised in this report.

During the final tenure year, from 14th July 2002 to 13th July 2003, RTE compiled historical exploration data and sought to divest the tenement.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	26456 Boomerang Creek.pdf	pdf
Other (specify)		
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	NTd6591.pdf	pdf
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)	26495 Boomerang Creek V.pdf	pdf