



## **Rio Tinto Exploration Pty. Limited**

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A member of the Rio Tinto Group

Annual and Final Report  
For the Period 2<sup>nd</sup> June 2002 to 1<sup>st</sup> January 2003,  
EL's 6566, 6903, and 6904, Snake Creek,  
Calvert Hills SE53-08,  
Northern Territory

### **Exploration Report No. 25645**

Tenement Holder: Normandy Exploration Pty Ltd

Date: December 2002

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Normandy Exploration Pty Ltd  
RTE Perth Information Centre

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## **SUMMARY OF ACTIVITIES**

This report details the diamond exploration activities by Rio Tinto Exploration Pty Ltd (RTE) within the Snake Creek Project tenements (EL's 6566, 6903 and 6904) for the period 2<sup>nd</sup> June 2002 to the 1st January 2003. The tenements are subject to a Joint Venture Agreement between RTE, Normandy Mining and the Wambaliji Aboriginal Corporation (WAC).

The project area is located 140km SE of the Merlin kimberlite field near the southern margin of the McArthur Basin.

Previous reconnaissance and infill sampling by Ashton Mining identified a cluster of diamonds and other kimberlitic indicator minerals within the tenements. During the previous reporting period (i.e. 2001-2002) a regional airborne EM/magnetics survey by RTE identified 29 geophysical/geochemical targets worthy of additional follow up. These targets were followed up with -2mm and -80# soil sampling and gravity surveys. This work resulted in the identification of 16 priority geophysical (+/- geochemical) targets representing possible kimberlite diatremes.

During the current reporting period 16 RC drill holes were drilled to test the 16 prioritised geophysical/geochemical targets. The holes mainly intersected weathered to fresh Proterozoic sediments and basalts. None of the holes intersected a kimberlite diatreme.

**VERIFICATION LISTING**

Exploration Work Type	File Name	Format
<b>Office Studies</b>		
Literature search		
Database compilation		
Computer modeling		
Reprocessing of data	WAp45372.pdf WAp45373.pdf WAp45374.pdf WAp45375.pdf WAp45412.pdf WAp45413.pdf WAp45414.pdf WAp45415.pdf WAp45416.pdf WAp45417.pdf WAp45418.pdf WAp45419.pdf WAp45420.pdf WAp45421.pdf WAp45422.pdf WAp45423.pdf WAp45424.pdf WAp45425.pdf WAp45426.pdf	.pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf .pdf
General research		
Report preparation	25802 Deep Well Dam.pdf	.pdf
Other (specify)	25631 Snake Creek FRR.pdf 25631 Appendix 1.pdf Hogan Family Track Agreement.pdf Holt Pastoral Track Agreement.pdf	.pdf .pdf .pdf .pdf
<b>Airborne Exploration Surveys</b>		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
<b>Remote Sensing</b>		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
<b>Ground Exploration Surveys</b>		
<b>Geological Mapping</b>		
Regional		
Reconnaissance		
Prospect		
Underground		
Costean		
<b>Ground Geophysics</b>		
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)		
<b>Geochemical Surveying</b>		
Drill sample		
Stream sediment		
Soil		
Rock chip		
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		

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Annual Report for the Period Ending 2 November 2002, EL2665, Deep Well Dam, Curnamona SH54-14,  
South Australia

Exploration Report No. 25802

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<b>Drilling</b>		
Aircore		
Auger		
Diamond		
Reverse circulation	CH_WASL2_COL2002.TXT SC_WASL2_COL2002.TXT NR_WASL2_COL2002.TXT CH_WADS2_SURV2002_1.TXT SC_WADS2_SURV2002_1.TXT NR_WADS2_SURV2002_1.TXT CH_WADL1_GEO2002_1.TXT SR_WADL1_GEO2002_1.TXT NR_WADL1_GEO2002_1.TXT CH_WADL1_MAGSUS2002_1.TXT SR_WADL1_MAGSUS2002_1.TXT NR_WADL1_MAGSUS2002_1.TXT CH_WADG2_ASS2002.TXT SC_WADG2_ASS2002.TXT NR_WADG2_ASS2002.TXT	
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
<b>File Verification Listing (this table)</b>	25645 Snake Creek V.pdf	.pdf