



Rio Tinto Exploration Pty. Limited

ABN 76 000 057 125 / ACN 000 057 125

A member of the Rio Tinto Group

Combined Annual Report for the Period Ending 14 September 2010

**EL4170 Cato Plateau & EL4171 Cato River
'Cato Project'
Gove Special SD5304, Northern Territory**

Exploration Report No. 28823

Tenement Holder: Rio Tinto Exploration Pty Limited

Date: October 2010

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RTX Perth Information Centre
BHP Billiton Minerals Exploration

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SUMMARY OF ACTIVITIES

EL 4170 Cato Plateau and EL 4171 Cato River were applied for by BHP Minerals Pty. Ltd. on 3rd October 1982. EL 4170 was granted on 14th October 2004, EL 4171 was granted on 12th September 2005. Rio Tinto Exploration Pty Limited (RTX, previously RTE) signed an agreement with BHP on 27th March 2000 whereby RTX took over management of the tenements. The original EL 4170 tenement application covered an area of 593.5 km² of which only 57.0 km² was granted. The remainder of the area was split off into a new application, EL 24389 and put into moratorium. The original EL 4171 tenement application covered an area of 846 km² of which 598.2 km² was granted. The tenements are located 30 km west of Nhulunbuy, east Arnhem Land and consequently are processed under the Aboriginal Land Rights Act 1975 (ALRA). Combined reporting of EL 4171 and EL 4170 was granted on 3 August 2007, and called the 'Cato Project'. The Cato Project forms part of the larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite.

The Cato project area covers part of the Cato Plateau, which is a well-documented occurrence of bauxite within the east Arnhem area. The Cato Plateau target, has the potential to contain resources similar in style to the nearby Gove deposit. BHP Billiton, through an agreement with RTX, retains the right to explore for manganese (Mn) on EL4170 and EL4171.

This combined annual report describes the exploration work completed by RTX and BHPB within Exploration License (EL) 4170 and EL4171 during the reporting period. Between 15 September 2009 and 14 September 2010, RTX completed the following work on EL4170 and EL4171:

- Analysis of 20 surface rock samples;
- Partial relinquishment of EL 4171

BHP Billiton completed the following work on EL4170 and EL4171:

- Re-processing of EM survey data on EL4171.

No ground disturbing work was completed during the annual reporting period ending 14 September 2010.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	28823 Combined Annual Report EL4170_EL4171_2010 pAI10_023 (EL4170 / EL4171 Location plan) pAI10_025 (EL 4171 Relinquishment map) Cato_MMP	.doc .pdf .pdf .pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
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	pAI09_011 (Rock Sample location plan) EL4171_2010_A_02_rockgeochem	.pdf .txt
Regolith		
Water		
Biogeochemistry		
Isotope		
Whole rock		
Mineral analysis		
Other (specify)		
Drilling		
Vacuum drilling		
Auger		
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	28823 Verification	.doc