



Rio Tinto Exploration Pty. Limited

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A member of the Rio Tinto Group

Second Annual Report
for the Period Ending 13 October 2006,
EL 4170 Cato Plateau
Australian Bauxite Project,
Northern Territory

Exploration Report No. 27895

Tenement Holder: Rio Tinto Exploration Pty Limited

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RTE Perth Information Centre
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SUMMARY OF ACTIVITIES

EL 4170 Cato Plateau was applied for by BHP Minerals on 3rd October 1982 and was granted on 14th October 2004. Rio Tinto Exploration Pty Limited (RTE) signed an agreement with BHP on 27th March 2000 whereby RTE took over management of the tenement. The original 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 tenement is located 22 km southwest of Nhulunbuy, east Arnhem Land and consequently is processed under the Aboriginal Land Rights Act 1975 (ALRA).

This second annual report describes the exploration completed during the second year of the tenement and includes a review of the previous years auger drilling and PIMA analysis of drill chips. EL 4170 forms part of the larger contiguous tenement package in east Arnhem Land, which is prospective for bauxite.

EL 4170 covers part of the Cato Plateau, which is a known area of bauxite of similar style to the nearby world class Gove deposit.

Exploration was focused on testing the area for bauxite. Work completed during the period included:

- Review of previous exploration.
- Consultation meeting.
- PIMA analysis of 6 auger holes.

The Pima study was conducted to assess its potential as a field based tool for quickly analyzing samples. The results show a degree of consistency between the assayed values and the PIMA.

Other work in the area focused on the adjoining tenement, EL4171.

VERIFICATION LISTING

Exploration Work Type	File Name	Format
Office Studies		
Literature search		
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	27895 Cato Plateau, WAp46448,	.pdf
Other (specify)		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity		
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT	WAp46453	.pdf
SPOT		
MSS		
Radar	WAp46452	.pdf
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	WAp46449	.pdf
Diamond		
Reverse circulation		
Rotary air blast		
Rotary percussion		
Tungsten carbide bit (coring)		
Groundwater drilling		
All drilling		
File Verification Listing (this table)	27895 Cato Plateau V	.pdf

