



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 from 1 January 2011 to 31 December 2011
Ranger Mineral Leases 1-14
Mineral Leases 47 to 49, 67 to 77
Alligator River SD5301,
Northern Territory**

Exploration Report No. 29247

Tenement Holder:	Peko Exploration Pty Limited
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Author:	L Morgan
Submitted:	A Faragher
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1. SUMMARY

No work was completed on the Ranger Mineral Leases (ML's) during the current reporting period.

Access to the ML's is unlikely in the foreseeable future because of their sensitive location within Kakadu National Park.

2. INTRODUCTION

ML's 47 - 49, 67 and 69 – 77 cover the Ranger 44 prospect area. The ML's were originally selected in 1973 on the basis of a Peko/EZ regional airborne geophysical survey. The ML's fall within poorly accessible areas of the Magela Plains.

Peko Exploration Pty Ltd originally made application for the ML's in the 1970's. The titles were granted on October/November 1974. The titles subsequently expired on 31 December 1994. Only limited ground geophysical surveying exploration on the ML's is recorded from this period. Rio Tinto acquired ownership of the ML's in 2000 after acquisition of parent company North Mining Ltd assets.

The ML's have been subsequently renewed on an annual basis. Work on the leases has been rendered impossible because they are surrounded by or fall within the Kakadu National Park.

Table 1: Tenement Details

Name	Tenement No.	Application Date	Grant Date	Sub-Blocks	Area (Ha)
Ranger 1	MLN47	2-Oct-70	7-Oct-74	-	16
Ranger 2	MLN48	2-Oct-70	7-Oct-74	-	16
Ranger 3	MLN49	2-Oct-70	7-Oct-74	-	16
Ranger 4	MLN67	24-Oct-73	7-Oct-74	-	16.18
Ranger 5	MLN68	24-Oct-73	7-Oct-74	-	16.18
Ranger 6	MLN69	24-Oct-73	7-Oct-74	-	16.18
Ranger 7	MLN70	24-Oct-73	7-Oct-74	-	16.18
Ranger 8	MLN71	3-Dec-73	4-Nov-74	-	16
Ranger 9	MLN72	3-Dec-73	4-Nov-74	-	16
Ranger 10	MLN73	3-Dec-73	4-Nov-74	-	16
Ranger 11	MLN74	3-Dec-73	4-Nov-74	-	16
Ranger 12	MLN75	7-Dec-73	4-Nov-74	-	16
Ranger 13	MLN76	7-Dec-73	4-Nov-74	-	8
Ranger 14	MLN77	7-Dec-73	4-Nov-74	-	8

3. GEOLOGY

The tenements are within the East Alligator River uranium province.

Little is known about the geology in the vicinity of the leases because of the structurally complex geology, the presence of thick cover and the politically sensitive nature of the location. Airborne geophysical data indicate the presence of upper Cahill Formation schists within the ML's. The Cahill Formation elsewhere hosts the world-class Jabiluka and Ranger uranium deposits.

4. EXPLORATION COMPLETED DURING REPORTING PERIOD

No work was completed on the Ranger ML's during the current reporting period from 1 January 2011 to 31 December 2011.

Access to the ML's is unlikely in the foreseeable future because of their sensitive location within Kakadu National Park.

5. ENVIRONMENT

No field work was conducted during the period.

6. EXPLORATION EXPENDITURE

The exploration expenditure for the reporting period is nil.

7. PROPOSED EXPLORATION

Access to the ML's is unlikely in the foreseeable future because of their sensitive location within Kakadu National Park.

LOCALITY

Robertson

SF51-13

1:250 000

DESCRIPTOR

Annual Report for the Period from 1 January 2011 to 31 December 2011, Ranger 1 to 14 Mineral Leases 47 to 49, 67 to 77, Alligator River SD5301, Northern Territory. No exploration activities were undertaken.

KEYWORDS

Ranger, Uranium, Kakadu