

**ASX  
ANNOUNCEMENT**

**8 February 2010**

**Thundelarra Exploration Ltd**

ABN 74 950 465 654

ACN 085 782 994

For further information  
regarding Thundelarra  
Exploration Ltd contact:

**Brett Lambert**  
Managing Director

or

**Brian Richardson**  
Director of Exploration

Phone: + 61 8 9321 9680

Fax: + 61 8 9321 9670

**Website:**

[www.thundelarra.com](http://www.thundelarra.com)

**Email:**

[info@thundelarra.com.au](mailto:info@thundelarra.com.au)

**Registered Office:**

Suite 2, Level 3,  
IBM Building  
1060 Hay Street,  
West Perth  
Western Australia 6005

PO Box 7363, Cloisters  
Square Perth Western  
Australia 6850



## **NEW PINE CREEK URANIUM TARGETS**

Interpretation of data from a detailed low level airborne radiometric and magnetic survey completed at the Hayes Creek Project in November 2009 has generated fourteen high priority uranium Target Areas.

Only six of these targets, including the Thunderball prospect, had been previously identified and inspected. Preliminary reconnaissance carried out in 2009 identified uranium mineralisation at all six areas including uranium rich boulders at the Corkscrew prospect that assayed up to 2.3% U<sub>3</sub>O<sub>8</sub>. To date only Thunderball has been subject to significant drilling, resulting in numerous high grade intercepts with assays of up to 20.3% U<sub>3</sub>O<sub>8</sub>.

Field assessment of the first of the new radiometric anomalies, 500 metres north-east of the original Corkscrew discovery, has identified significant uranium mineralisation. Four shallow trenches on a scree covered slope exposed a number of strongly radioactive boulders with abundant visible secondary uranium minerals.

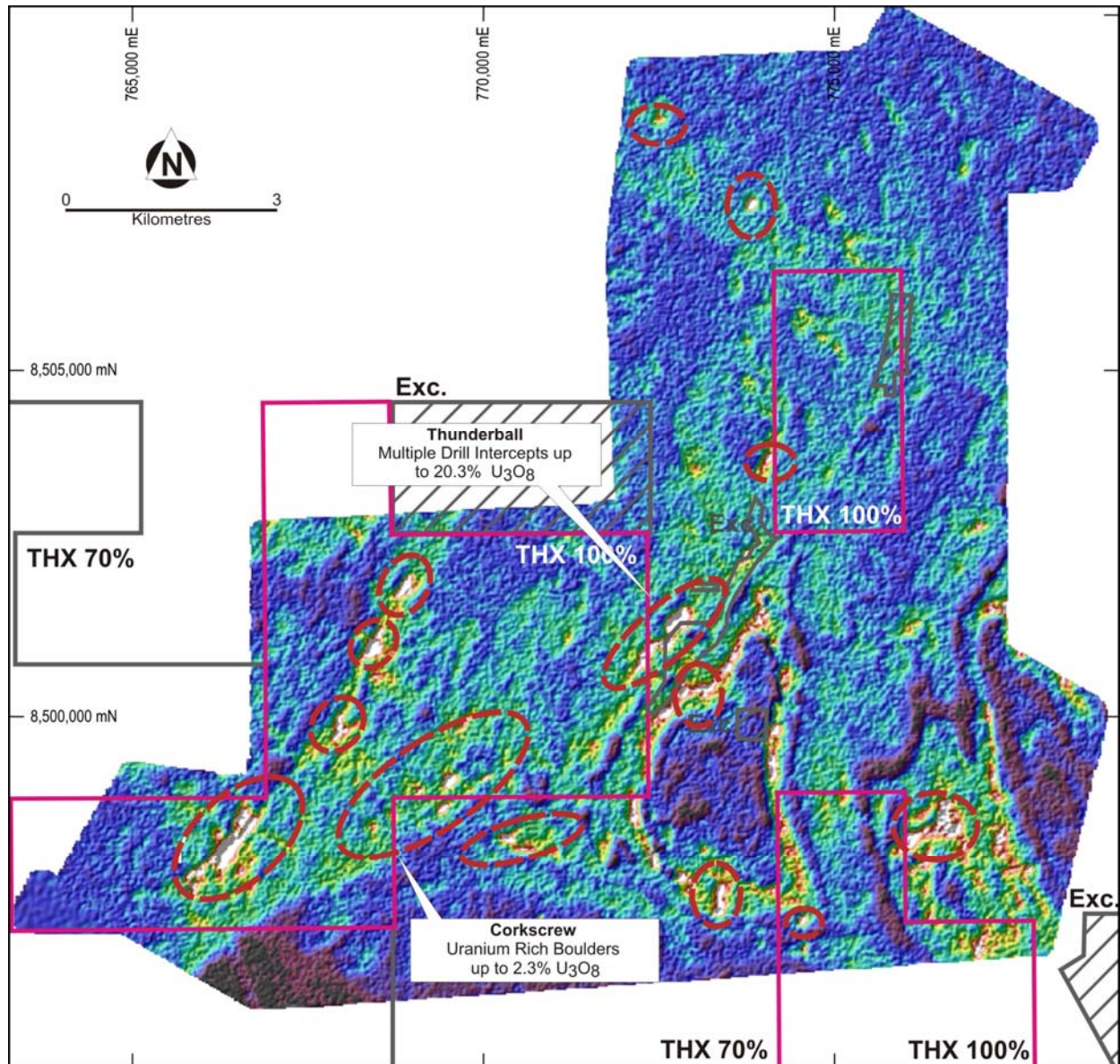
The 5,235 line kilometre airborne survey was conducted by Thompson Aviation using Airtractor 502B fix wing aircraft, with 25 metre spaced flight lines and 20 metre mean terrain clearance. This survey is the most detailed radiometric and magnetic survey ever completed in this part of the Pine Creek Orogen. It has defined new and significant radiometric anomalies and improved definition of previously identified targets.

Importantly, the magnetic data has defined controlling structures associated with the known uranium occurrences, including Thunderball. A detailed structural mapping and 3D modelling program is currently underway on the project area utilising all available datasets.

Thundelarra is now preparing for a major drilling campaign scheduled to commence on 2 April 2010. A program of 25,000 metres of reverse circulation and diamond drilling is planned for the Pine Creek area including resource definition and extensional drilling at the exciting Thunderball discovery.

The details contained in this report that pertain to ore and mineralisation are based upon information compiled by Mr Brian Richardson, a full-time employee of the Company. Mr Richardson is a Member of the Australasian Institute of Mining and Metallurgy (AUSIMM) and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the December 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code). Mr Richardson consents to the inclusion in this report of the matters based upon his information in the form and context in which it appears.

## Hayes Creek Project – Radiometric Target Map



## Airtractor 502B Survey Aircraft in Action Over the Hayes Creek Project

