

## Cameco Australia Pty Ltd

### EL 23462 - Kukalak Exploration Summary 2002 and 2003

Category	Activity	Contractor	Coverage	Objectives	Results
Geophysics	Tempest: Airborne EM	Fugro	193 line km in two areas	To obtain information beneath the sandstone, and identify if possible the unconformity profile and conductive targets.	200m line spacing
	Airborne Multispectral Survey (AMS)	De Beers	419 sqkm as part of larger survey	To obtain continuous clay alteration patterns over the entire area, to discriminate lithologies and possibly alteration haloes indicative of U mineralisation	
Lithogeochemistry	Outcrop Samples	NTEL	135 samples	Obtain regional background geochemical, lithological and petrological and physical characteristics of the exposed rock units. Anomalous samples also collected to determine rock characteristics.	
	Fracture Samples	NTEL	71 samples	To analyse with low detection geochemical methods and determine prospectivity of fracturing and veining	
Multispectral Studies	PIMA - outcrop samples	Cameco	133 readings on samples		
Research	Petrographic Samples - Outcrops	Petrographics International	135 samples		
Exploration Drilling	Diamond Core Drilling	Underground Diamond Drillers	1123.6 m in 3 holes	Devil's Elbow: identify mineralisation at the unconformity between basement and Mamadawerre Sandstone, adjacent to the Ranger Fault. Also assess the extent of uranium anomalism at the lower and upper contacts of the Nungbalgarri Volcanics. Dog Leg: test the contact between Cahill Formation and Tin Camp Creek Granite.	Only minor elevated uranium up to 33 ppm identified at the unconformity and volcanic contacts. Chlorite alteration and silicification occur in the Mamadawerre Sandstone. Lead isotope ratio analysis at Devil's Elbow indicates lead from uranium parentage is greater than that from thorium parentage. Lead from uranium vectors westward at the Ranger Fault. No Cahill Formation intersected at Dog Leg. Tin Camp Creek Granite found to have high background radiation.