

Cameco Australia Pty Ltd
Wellington Range EL 5893 - Exploration Summary

	Category	Activity	Contractor	Coverage	Objectives	Results
2004	Geophysics	Airborne Radiometrics and Magnetics	UTS Geophysics	200m lin spacing, 3021 line km. Regional coverage of the tenement.	Identify any areas of anomalous radioactivity that may be attributed to U mineralisation and to provide another tool for the identification of stratigraphic patterns.	13 radiometric anomalies identified requiring ground follow-up
		Hymap Mk 1	De Beers	870 sq km	To obtain continuous clay alteration patterns over the entire area, to discriminate lithologies and possibly alteration haloes indicative of U mineralisation	
	Outcrop Sampling	Airborne radiometric anomaly follow-up	NTEL	15 stations with 10 samples evaluating 8 ARAD anomalies.	Ground check and validate the response from the airborne radiometric survey.	Anomalies consisted dominantly of pebbly bands and conglomeratic units within Mamadawerre Sandstone, with other anomalies relating to drusy quartz veining within fractured sandstone in close proximity to Cretaceous and ferricrete, one anomaly relating to exposed ferricrete and laterite and one relating to swampy black soils.
		Regional Background Sampling	NTEL	89 samples	Obtain regional background geochemical, lithological, petrological and physical characteristics of the exposed rock units and define limits for anomalous alteration and chemistry; may define anomalous areas that may be associated with unconformity-style U mineralisation	Regional coverage of the sandstone exposure with approximately one sample per one square kilometre of outcrop and samples of exposed basement rocks where available
		PIMA - outcrop samples	Cameco	96 readings on samples	To define areas of clay alteration which may be attributable to U mineralisation.	Dominantly dickite clays with subdominant illite group clays and minor kandite clays.
	Research	Petrographic Descriptions	Pontifex and Associates	6 petrographic sample descriptions	Identify by petrographic means the composition of key samples, and give an indication of the accessory minerals.	Six samples described with accompanying report.
2005	Geophysics	TEMPEST Survey	UTS	most of tenement	identification of conductivity highs, determine topography of unconformity, determine depth to basement	
	Outcrop Sampling	single sample	single sample		background sampling	2.63 ppm U
	Aeromagnetic Interpretation		Southern Geoscience		identify prospective stratigraphy and possible structural controls	
	Geophysics	Gravity Survey	BELL Geospace	250m line spacing, 2,500 line km at 120m flight height. Regional tenement coverage.	Help with identification of underlying geological and structural settings within the tenement area	

2006	Drilling	Diamond core	Titeline	13 diamond drill holes with PCD pre collars.	Drill test defined magnetic anomalies with signatures similar to that of the mineralised Cahill Fm	Total metres drilled 3822m, which included 2298m of PCD pre-collaring through the Cretaceous cover. All holes were oriented towards the west with a dip of 75 degrees. Drilling results indicated that the Cahill Fm was present and produced the indentified magnetic feature. Several locally graphitic zones were also intersected. Unfortunately there was no indication of alteration indicative of U mineralisation.
	Drilling	Diamond core	Titeline	10 holes with PCD pre collars for approx 3000m	Drill test defined magnetic anomalies with signatures similar to that of the mineralised Cahill Fm	* drill holes for a total of 2932m, which included 2212m of PCD pre-collaring through the Cretaceous cover. All holes were oriented towards the west with a dip of 65 degrees except WRD0020. Drilling results indicated that the Cahill Fm was present and produced the indentified magnetic feature. Several small locally graphitic zones were also intersected. Unfortunately there was no indication of alteration indicative of U mineralisation.
		Heli - diamond core	Titeline	1 hole for approx 450m	Drill test defined strong tempest anomaly (conductor)	Not drilled in 2007 due to budget restrictions
		RAB/Aircore Drilling	Titeline	80 holes for approximately 2000m	Identify varying stratigraphy below recent cover. Identify possible alteration/mineralization not exposed at	Drilled 71 holes for a total of 1039m. Drilling intersected a range of dolerites, granitoids, sandstones and ferricretes.
2007	Geophysics	Ground EM	Quantec	several test lines over 2006 drill lines	try different data collection and processing methods to improve definition of conductors through cover.	A small ground EM program was completed with initial results giving a positive outcome with the potential to see more effectively through conductive cover sequences.
	Drilling	Diamond core	Titeline	12 holes with PCD pre collars for approx 3000m	Drill test defined magnetic anomalies with signatures similar to that of the mineralized Cahill Fm. Drill test interpreted magnetic, gravity, and TEMPEST anomalies to define structures, graphitic conductors, and Archean basement highs that are possibly related to uranium mineralization	* drill holes for a total of 3719.6m, which included 705.3m of PCD pre-collaring through the Cretaceous cover. Mineralization intersected through two holes (WRD0024 and WRD0033) that were drilled to test a TEMPEST anomaly in the North Eastern part of the tenement.
		Heli - diamond core	Titeline	1 hole for approx 450m	Drill test defined strong tempest anomaly (conductor)	Not drilled in 2008 due to budget restrictions
		RAB/Aircore Drilling	Bullion	115 holes for approximately 3000m	Identify varying stratigraphy below recent cover. Identify possible alteration/mineralization not exposed at	Drilled 119 holes for a total of 3099m. Drilling intersected a range of dolerites, granitoids, sandstones and ferricretes.
2008						

	Geophysics	Ground EM	Outer Rim Geophysics	test lines over 2006 drill traverse 1 and Step loop survey over Angularli prospect.	try different data collection and processing methods to improve definition of conductors through cover.	A small ground EM program was completed with initial results giving a positive outcome with the potential to see more effectively through conductive cover sequences. A large conductor was identified over the survey area along 2006 drill traverse 1.
		VTEM				
2009	Drilling	Diamond core	Titeline	9 holes with PCD pre collars for approx 3000m	Drill test defined EM anomalies with signatures similar to that of graphitic conductors. Drill test interpreted magnetic, gravity, and TEMPEST anomalies to define structures and graphitic conductors that are possibly related to uranium mineralization	9 drill holes for a total of 3245.8m, which included 705.3m of PCD pre-collaring through the Cretaceous cover. Mineralization intersected through 7 holes (WRD0035-37 and WRD0039-42) that were drilled to follow up anomalous mineralization in 2008 drill holes.
		Heli - diamond core	Titeline	1 hole for approx 450m	Drill test defined strong tempest anomaly (conductor)	1 drill hole for a total of 299.5m, including 20m of overburden. Drill hole intercepted defined TEMPEST anomaly (2 m graphitic conductor within 5 m structural zone)
	Geophysics	Ground Ressistivity	Zonge Engineering & Research Organization	test lines over 2006 drill traverse 1 and Step loop survey over Angularli prospect.	try different data collection and processing methods to improve definition of conductors through cover.	A small ground EM program was completed with initial results giving a positive outcome with the potential to see more effectively through conductive cover sequences. A large conductor was identified over the survey area along 2006 drill traverse 1.
		Airborne Radiometrics and Magnetics	UTS Geophysics	200m lin spacing, 3021 line km. Regional coverage of the tenement.	Identify any areas of anomalous radioactivity that may be attributed to U mineralisation and to provide another tool for the identification of stratigraphic patterns.	13 radiometric anomalies identified requiring ground follow-up
2010	Drilling	Diamond core	Titeline	30 holes with PCD pre collars for approx 10000m	Drill test defined EM anomalies with signatures similar to that of graphitic conductors. Drill test interpreted magnetic, gravity, and TEMPEST anomalies to define structures and graphitic conductors that are possibly related to uranium mineralization	30 drill holes for a total of 10313.1m, which included 1229.1m of PCD pre-collaring through the Cretaceous cover. Mineralization intersected through 24 holes that were drilled to follow up anomalous mineralization in 2009 drill holes.
	Geophysics	Ground Gravity	Haines Surveys	568 untique gravity stations	try different data collection and processing methods to improve definition of structures through cover.	Variability of gravity highs and lows influenced by thickness of cretaceous cover, sandstone thickness and weathered dolerite
		Downhole Geophysics	Borehole Wireline	Physical property logs of 5 diamond drill holes totalling 1543 m.	try different data collection and processing methods to improve definition of various properties downhole at depth	