

Humbert Creek Cobalt Vanadium Project

Tenement: E04/2490, 70 Blocks, applied for on 23 March 2017 in the names of Paul Askins and Andrew Drummond & Associates. Commitment upon grant \$70 000 pa.

Lies over Commonwealth leasehold for defence purposes, where access for exploration/mining is not prohibited, but special conditions are expected to apply.

West Kimberley WA, about 150km directly NE from Derby.

High order cobalt anomalies in recently released Geological Survey WA (GSWA) regolith sampling. The highest anomalies in their E Kimberley sampling.

Coincident high Ni anomalies.

Co to a very high 311ppm, Ni to 171ppm, indicates highly prospective fertile host rocks.

Extraordinarily high vanadium in one sample: 3527ppm (0.3%), with 6% TiO₂! This is near "ore" grade. If this material is extensive, a potentially economic V-Ti deposit may be able to be delineated very quickly.

Hart Dolerite host. A regionally extensive Proterozoic sill complex. In the East Kimberley hosts V Ti mineralisation.

Intersection of major crustal faults- locus for fluid transport and mineral deposition.

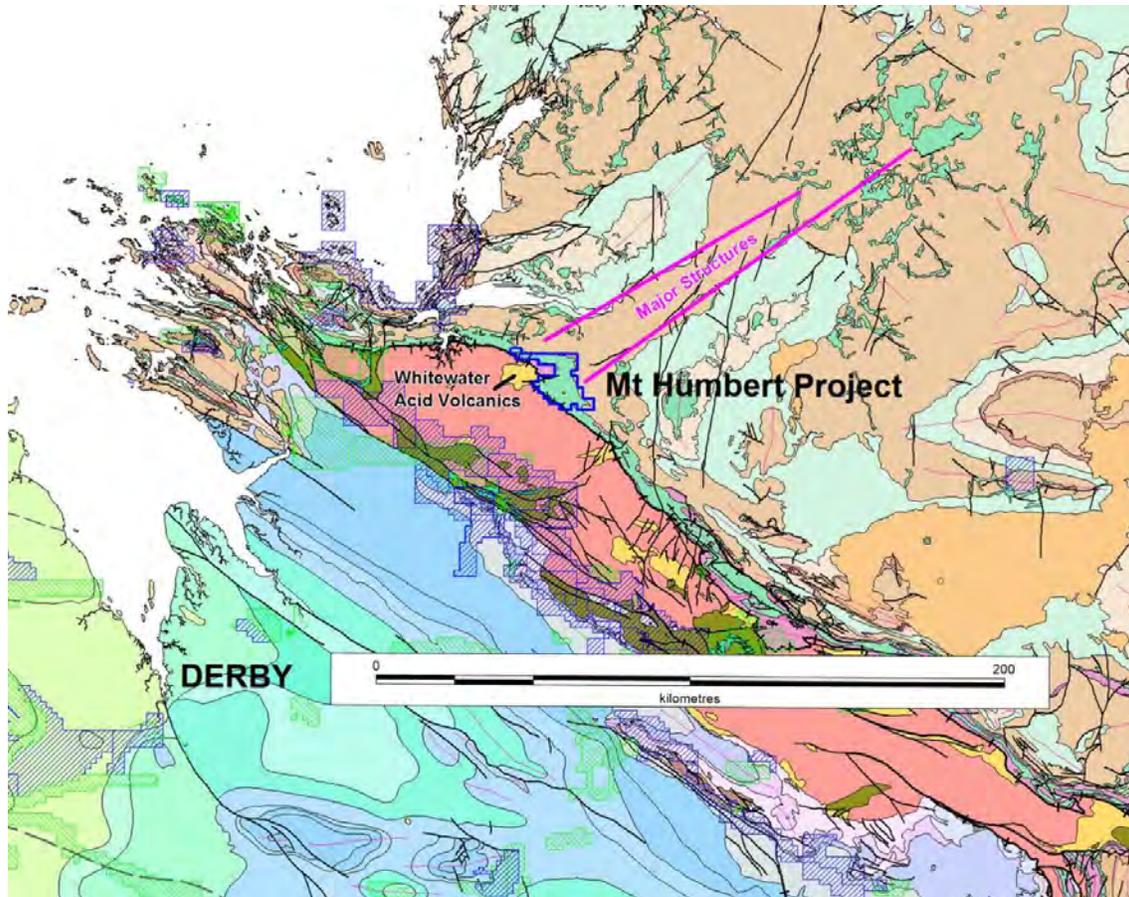
Area highlighted as highly prospective for Ni sulfide deposits in a scientifically sophisticated recent study by the Centre of Exploration Targeting, University of Western Australia.

Styles of mineralisation which can be sought:

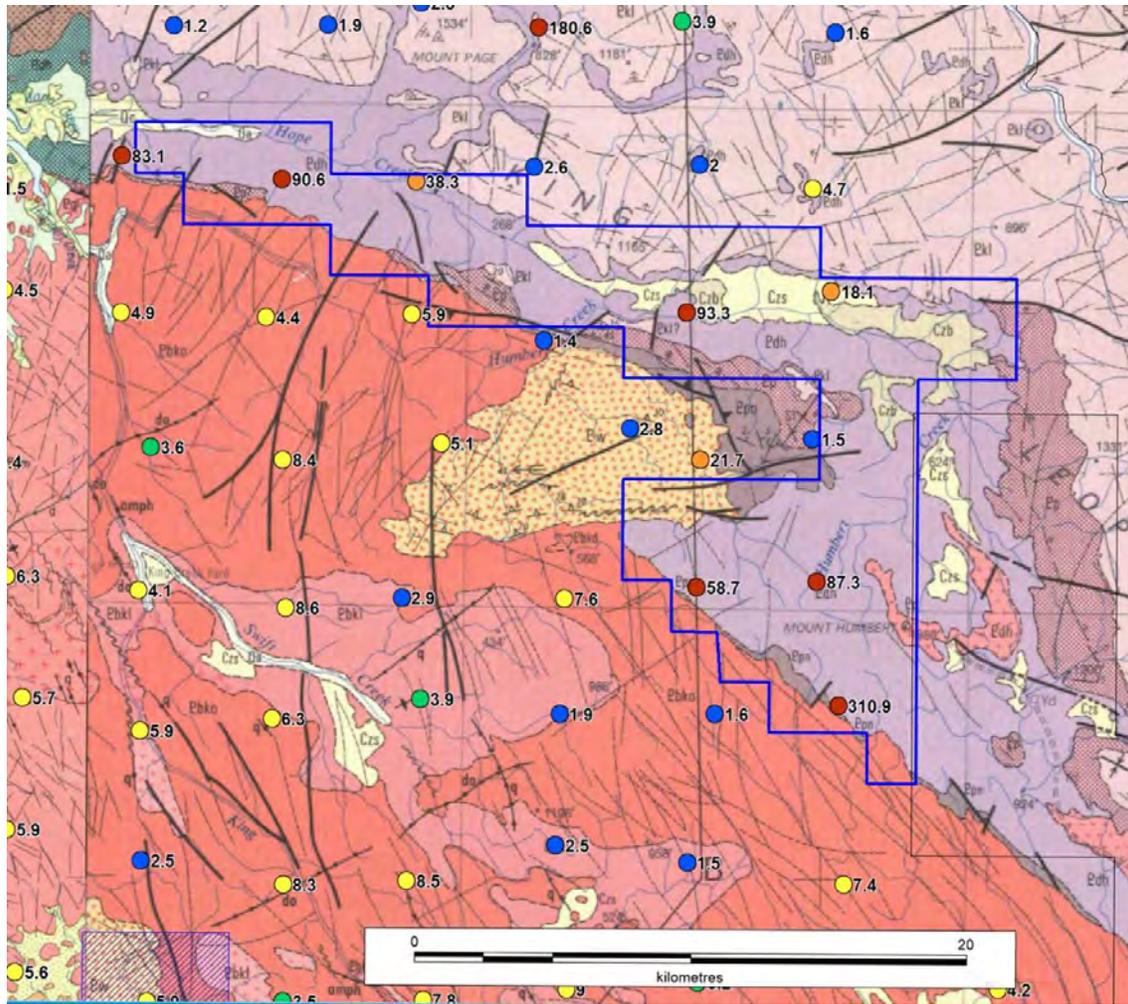
- (a) Cobalt bearing pyritic veins in fault zones.
- (b) Nickel and cobalt rich sulfides in primary layers in the dolerite or in feeder zones through which the magma was emplaced
- (c) Vanadium-titanium-(magnetite) rich layers in the dolerite.

Previous exploration: Pickands Mather 1960s stream sediment geochem, not reliable, not reviewed; various company uranium and diamond exploration; no exploration for cobalt.

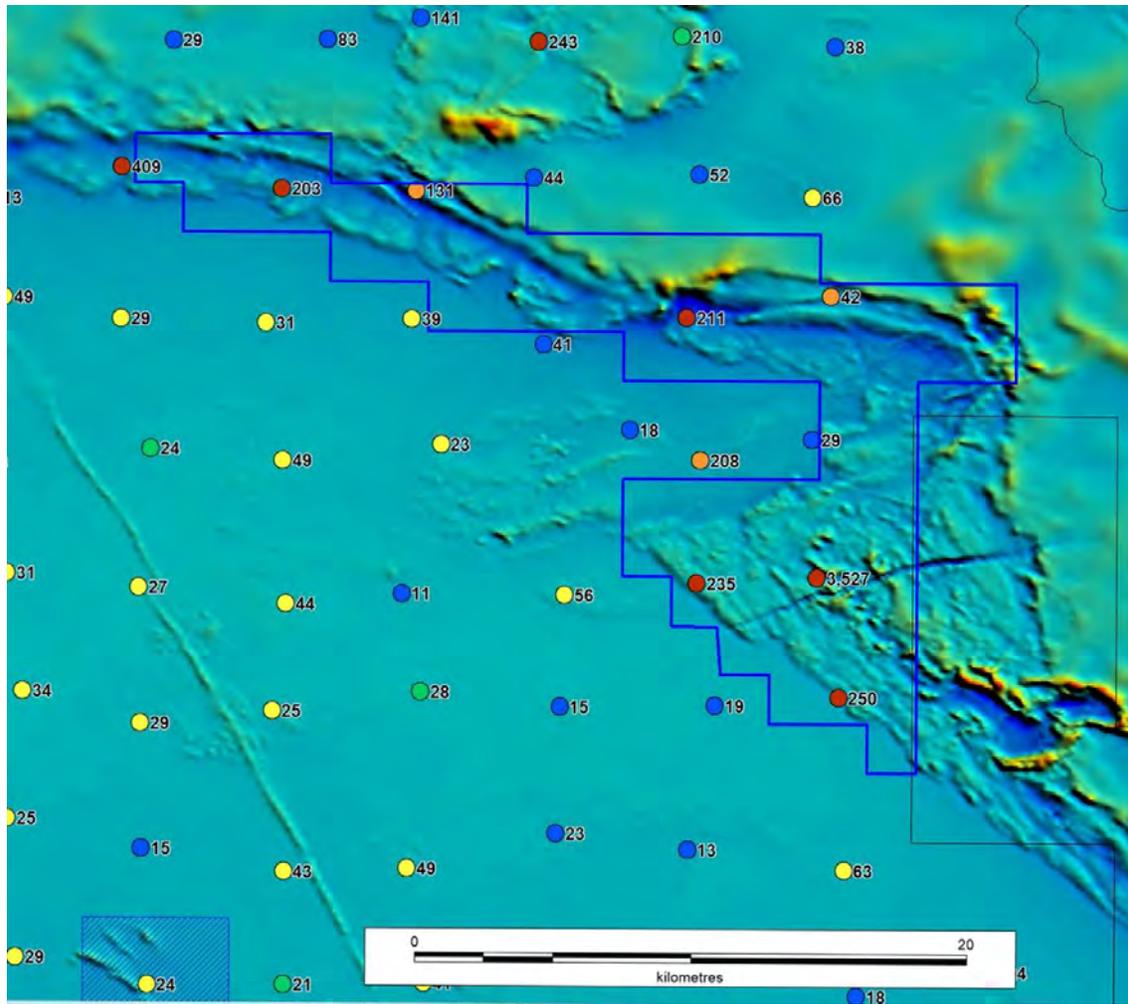
70 block Exploration Licence covers area adequately. Exploration commitment in year one would be \$70 000.



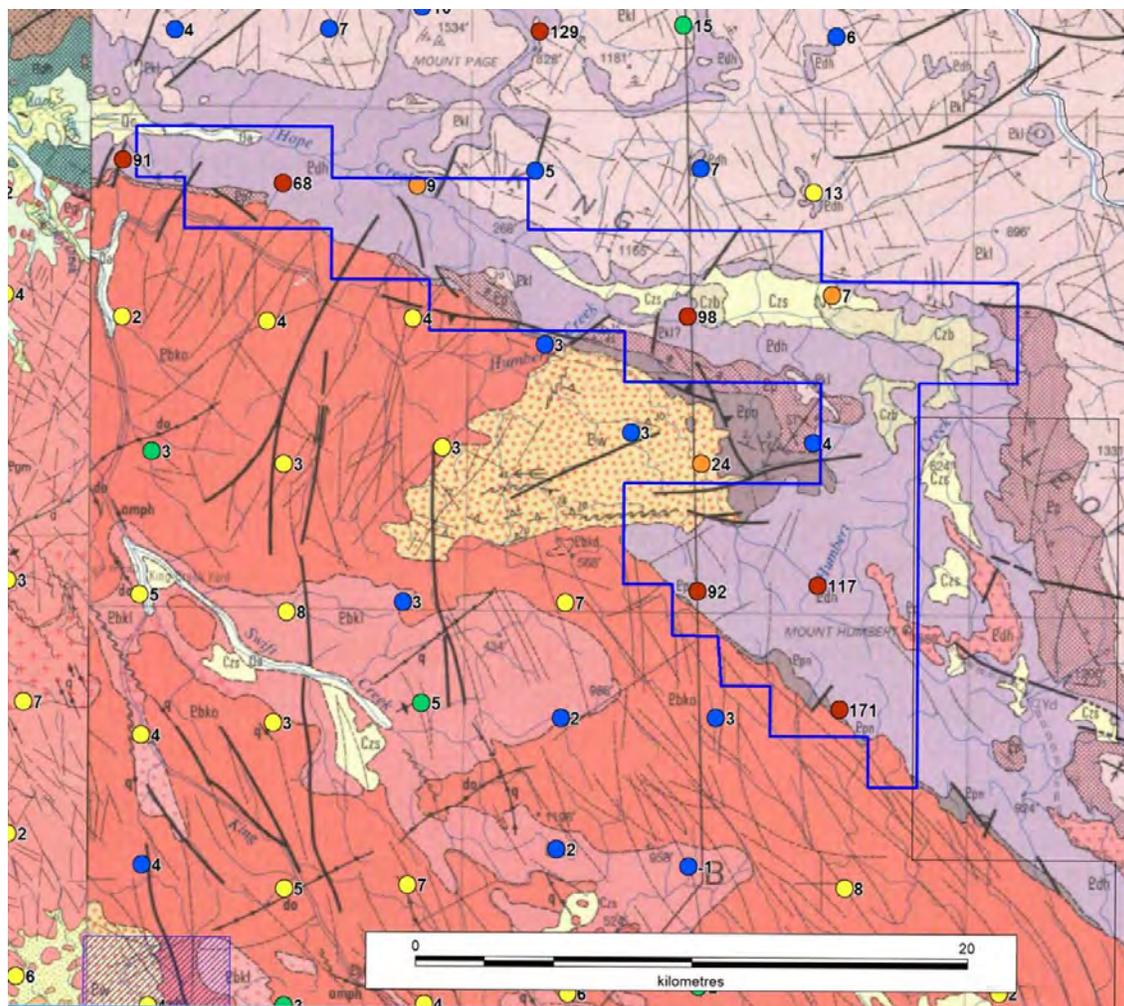
LOCATION ON SIMPLIFIED GEOLOGY (Tenement boundary slightly incorrect)



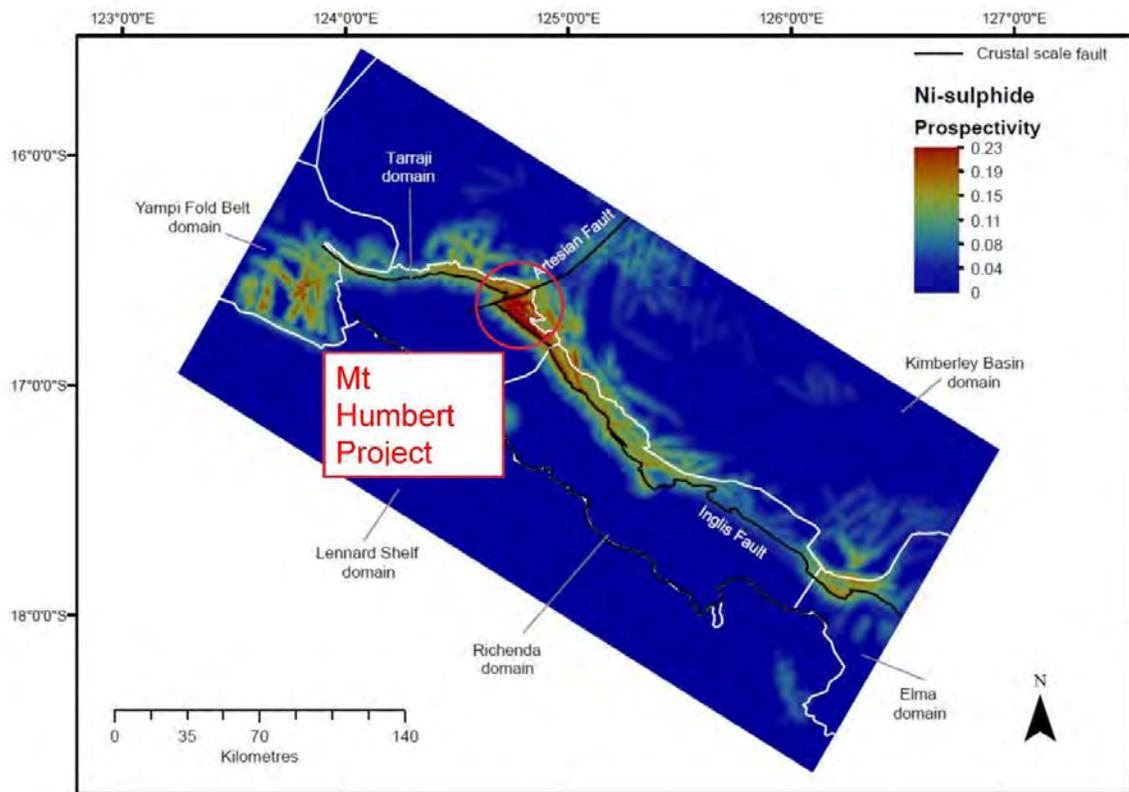
Geology. Hart dolerite (dark mauve). Cobalt ppm in regolith samples. Major faults, not all shown, control the location of the acid volcanic Whitewater Volcanics (yellow) and the embayment area below.



Airborne magnetics shows the complexity in the dolerite, and faults, which could host mineralisation. V ppm in regolith samples. Complex areas to east are prospective but lie in National Park.



Ni ppm in regolith samples.



University study highlights the high prospectivity of the Mt Humbert area