

# Corona Minerals

**Annual Report**

**EL51/2008**

**For Period**

**16 December 2016 to**

**15 December 2017**

**10/01/2018**

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**Appendix 1: IP Survey proposal for Corona Minerals Ltd**

## List of Digital Files Accompanying this Report

EL512008\_2017\_20180110\_01 Text

EL512008\_2017\_20180110\_02 Appendix 1

## **1.0 INTRODUCTION**

EL51/2008 is located due south of Queenstown on the West Coast of Tasmania. The Eastern boundary abuts the Gordon Franklin National Park.

Corona Minerals Ltd (“Corona”) entered into a Joint Venture agreement (JV) with Pacifico Minerals Ltd (“Pacifico”) in July 2010 to explore EL51/2008, Corona has since earned 80% of the tenement and is the operator of the tenement. Pacifico has this year declined to commit funds to exploration and as such Corona is now increasing its interest in the tenement.

Significant Cu-Au-REE-magnetite (Ag-W-Mo) mineralisation was discovered at the South Darwin Prospect over the previous few years, but this has failed to generate enough investor interest to help Corona raise funds.

Corona has been seeking admission to the ASX, a time consuming and costly process. The Company hopes to be listed in the next reporting period.

A small IP survey and surface geochem program was undertaken over the Prince Darwin mineralisation. Preliminary results of the IP survey are available and presented but fully processed data is not available at time of writing. It is probably best not to draw too many conclusions from the preliminary results. Assay results for the geochem program are not available and will be reported fully in next years annual report.

## **2.0 TENURE**

EL51/2008 encompasses 130km<sup>2</sup>. Tenure is composed of Crown Land, State Forrest, Regional Reserve, Hydro Tasmania Land.

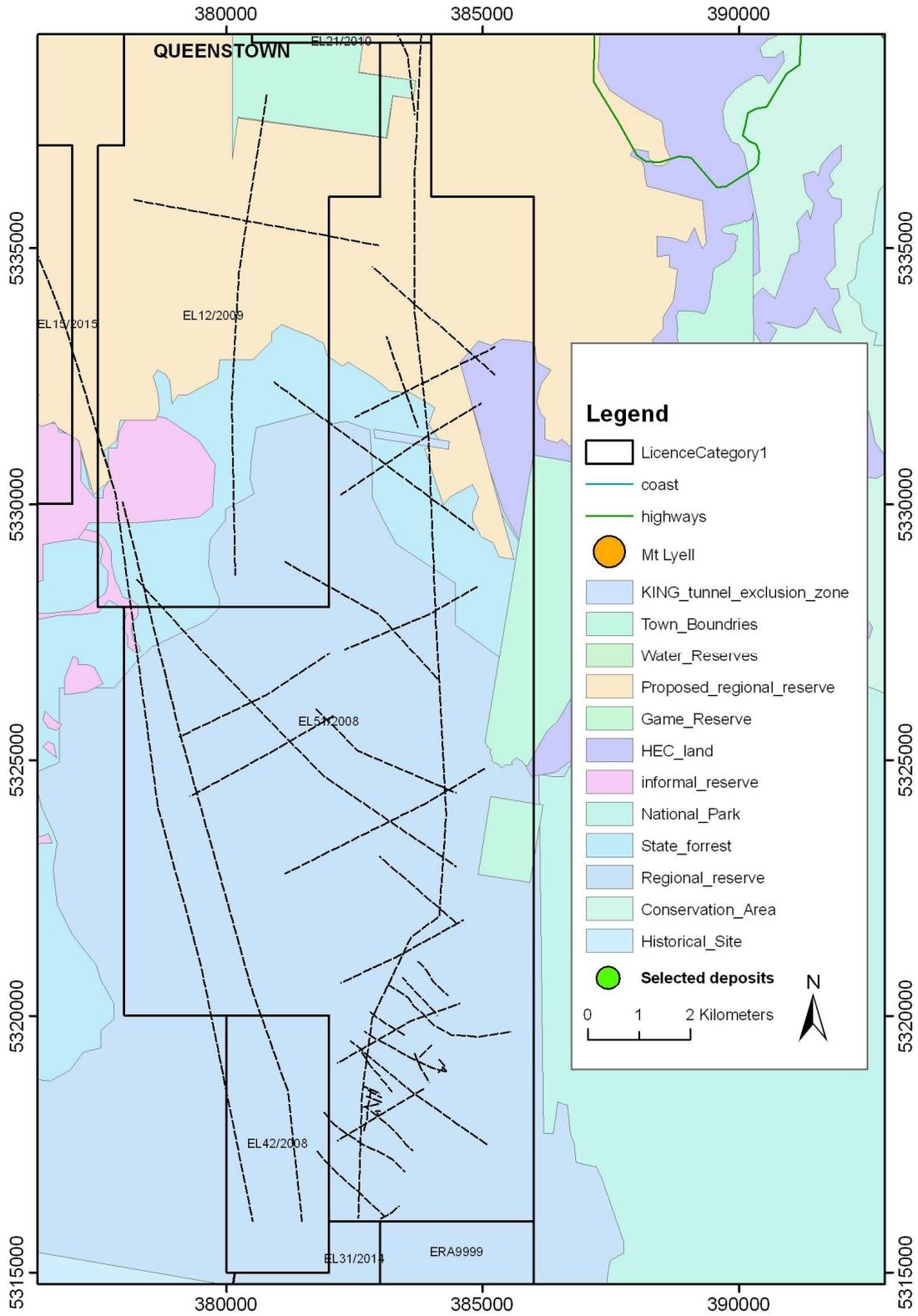


FIGURE 1: TENURE

### **3.0 ACCESS**

Access within the tenement is good. Main access is roughly North-South bituminised Lynchford Road heading out of South Queenstown with numerous gravel tracks running east into the tenement, and a bituminised Hydro Tasmania road that runs south throughout the tenement. Corona has recently upgraded the South Darwin plateau track for access into the South Darwin Prospect. Access into the Garfield Prospect is either by helicopter or by a rough walking track for approximately 8km.

### **4.0 GEOLOGY**

The oldest rocks on the tenement are the Miners Ridge basalt and the Miners Ridge Sandstone, reputed to be of late Proterozoic or early Cambrian age, and are exposed in the core of a major anticline.

The mid-late Cambrian Mount Read Volcanics (MRV) dominate the tenement. The volcanic succession is composed of Central Volcanic Complex (CVC) rhyolites, Western Volcano Sedimentary (WVS) volcanoclastic and epiclastic sequences, and Tyndal group volcanoclastic sequences. The WVS sequence is host to several andesite-basalt units which appear to be contemporaneous with mineralisation throughout the MRV.

Ordovician aged Owen group siliciclastic conglomerates and sandstones are found throughout the tenement, and a thin unit of Gordon Limestone is found in the east.

Silurian aged Eldon group shales sandstones and minor conglomerates are found in the east of the tenement. A more comprehensive geological overview can be located amongst other places in Hughes (2009).

### **5.0 MINERALISATION**

Ninety four historical prospects are known within the tenement, the majority are copper-gold workings within the MRV, spatially associated with the CVC-Tyndal contact. Several styles of mineralisation are thought to be present, including Prince Lyell analogues at the Garfield Prospect, structurally controlled gold mineralisation at the Norms Lode prospect, carbonate or black shale hosted strataform zinc mineralisation at the Pearls Find prospect, including others. Copper-gold REE mineralisation within the South Darwin Prospect is associated with magnetite breccias, the provenance of which appears to be related to the emplacement of the Cambrian aged Darwin Granite suite, with similarities between this and Prince Lyell/ Garfield.

### **6.0 STRUCTURE**

Predominant structure has a north west orientation. Several phases of folding starting in the late Cambrian, throughout the Ordovician and during the Devonian Tabberaberan orogeny have created complex structural relationships. It is thought a major NNE structure which Corona have termed the "Darwin Fault" runs through the South Darwin Prospect, and into the East Darwin Prospect. A series of NE-NNE trending "arc normal" faults are evident throughout the tenement, including at the Garfield Prospect and are possibly important for mineralisation.

### **7.0 EXPLORATION PHILOSOPHY**

EL51/2008 was targeted for VHMS and related mineralisation, with a focus on copper-gold mineralisation analogous to the Mt Lyell field. Recent discoveries at South Darwin have shown there is potential for the area to host significant Cu-Au mineralisation, with the Prince Darwin copper-magnetite breccia/skarn potentially part of larger suite of intrusion related mineralisation styles.

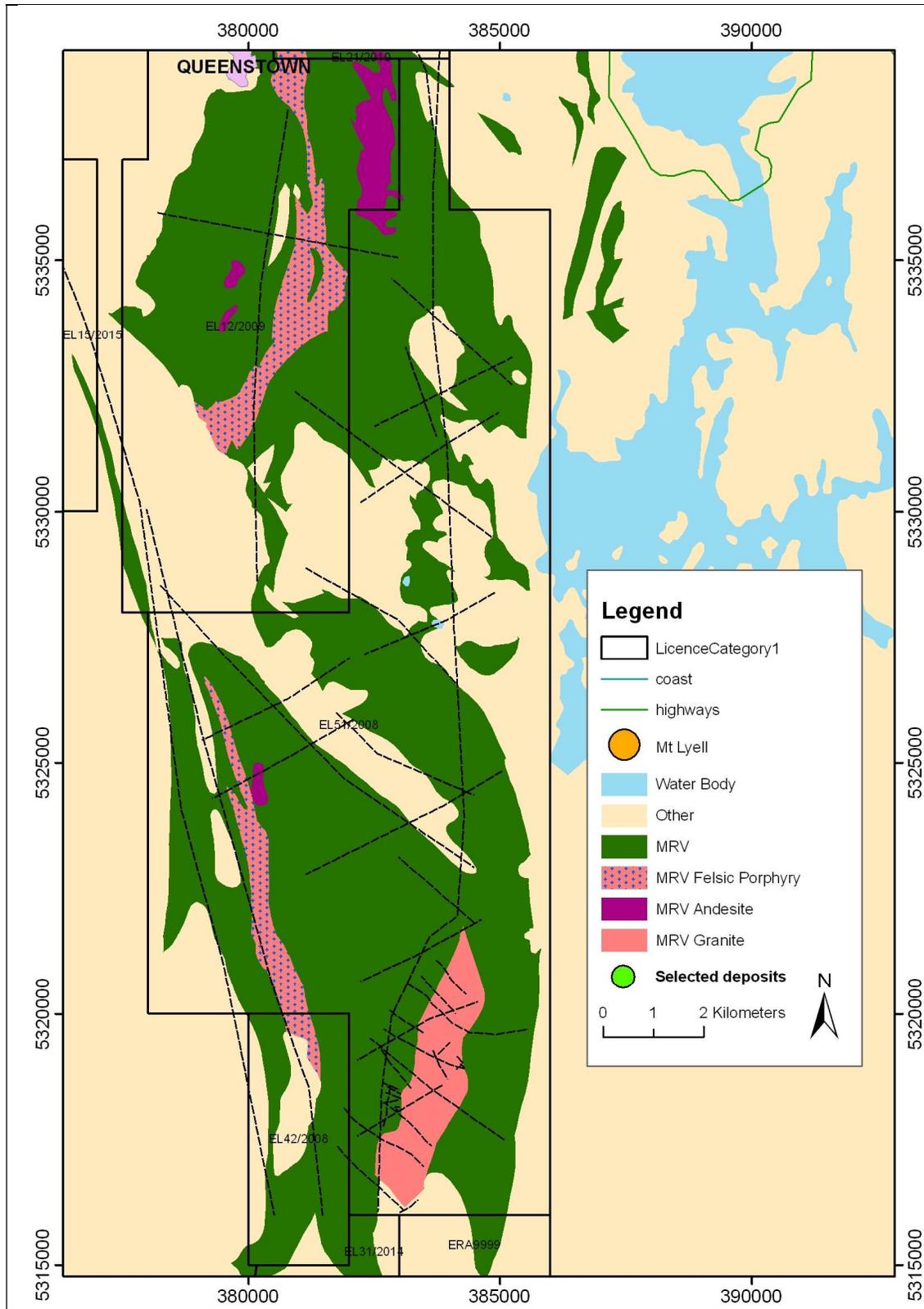


FIGURE 2: 1:250,000 GEOLOGY OF THE QUEENSTOWN PROJECT

## 8.0 EXPLORATION HISTORY.

For a comprehensive summary of past exploration prior to Coronas involvement, visit Hughes (2009).

## 9.0 WORK COMPLETED BY CORONA MINERALS

### 9.1 Summary of Previous work completed by Corona

Period	Relevant Report	Major Activities	Results Summary
2009-2010	Hughes, CED. 2010	VTEM/mag Survey	Series of VTEM anomalies in Linda Valley/Comstock Valley. Strong magnetic bodies identified on South Darwin Plateau.
2010-2011	Hughes, CED. 2011	VTEM/mag modeling, preparing ground access to South Darwin Prospect, establish camp, begin helicopter drilling Prince Darwin Zone.	Large mag body associated with historical Prince Darwin adit, termed Prince Darwin Zone. Helicopter drilling intersects large zone of copper-pyrite-magnetite mineralization in SDD001.
2011-2012	Hughes, CED. 2012	Diamond Drilling at the South Darwin Prospect, Aircore Drilling at the Pearls Find Prospect.	Discovery of significant copper-gold mineralization associated with a magnetite breccia, minor BMS intersected within black shales/clays and sandstones
2012-2013	Hughes, CED. 2013	Diamond Drilling at the South Darwin Prospect, with prospect wide mapping and sampling.	Higher grade copper-gold mineralization (13m @ 1.2% Cu, 0.5 g/t Au) intercepted and also significant TREO mineralization intercepted, along with tungsten and molybdenum. Mapping, lithochem and REE work points to the Darwin Granodiorite as a potential source for mineralising fluids. It is unclear where the high levels of REE have come from (17% in a rockchip), as it seems unlikely they would be generated from a high K calc alkaline granitoid.
2013-2014	Hughes CED 2014	Diamond Drilling at Garfield Prospect	2 diamond holes returned broad intervals of alteration with accompanying chalcopyrite mineralization. Assays not received in reporting period.
2014-2015	Hughes, CED. 2015	Assaying Garfield core Metallurgy at Garfield	Low tenor Cu-Au mineralization recorded <u>~100m @ 0.1% Cu</u> , curtailing the potential for extensions north to the Garfeild mineralization. Garfield mineralization would have the potential to produce a high quality Cu-Au concentrate.
2015-2016	Hughes, CED. 2016	Exemption Form conditions	Undertaking IPO very limited funds

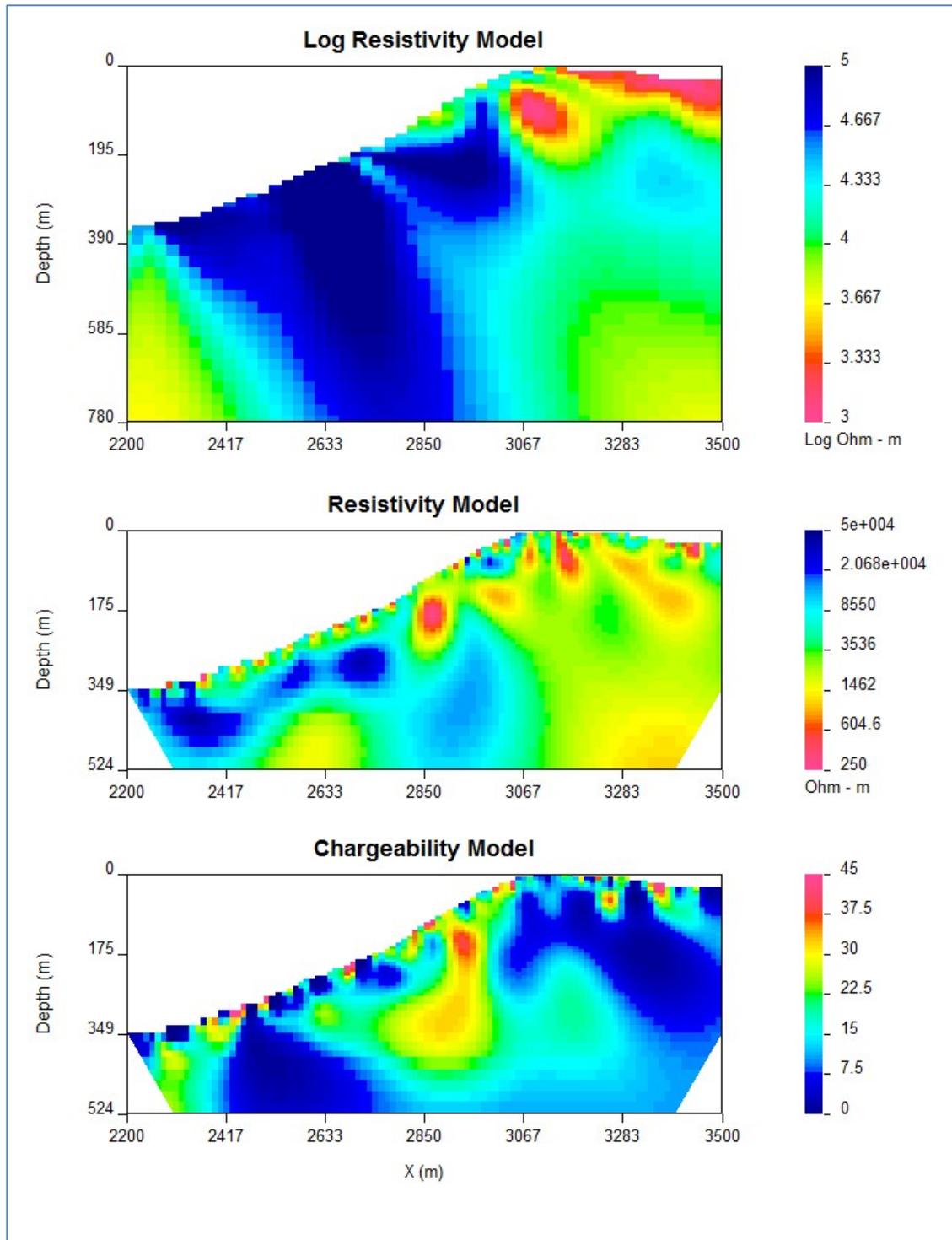
**Table 1: Summary of work done by Corona up to the reporting period**

## 9. 2 Work completed by Corona in this reporting period

A small grid of three east west lines spaced 200m apart and 1km long was established over the Prince Darwin mineralization, and pole-dipole IP and resistivity was carried out by Geophysical Resources and Surveys Pty Ltd. Due to time frame constraints Geophysical crews didn't arrive until Dec 11th. Due to financial constraints only 2 of the three lines were read. Survey specifications can be found in Appendix 1. Rockchip or c-horizon sampling was carried out over the grid, with samples dispatched to Intertek Genalysis Adelaide for multielement analysis. Details of the geochem sampling including sample info will be presented in next years annual report. The idea of the survey was to see if the various styles of mineralization intersected in SDD005 and SDD005 would be distinguishable using IP, and to see if (given the volume of alteration seen within drilling and the potential for the various styles of mineralization often observed in intrusion related systems ) other chargeable anomalies exist. Preliminary results for the IP survey are shown below but processed data and a final report has not yet been received. The preliminary data is promising with a strong broad chargeable anomaly present beneath the obvious Prince Darwin zone on the northern line, and a broad chargeable anomaly present offset to the east closer to the intrusive contact on the line (8500N) that runs over SDD004 and SDD005 and the intersection they make with the Prince Darwin Zone. The MT and resistivity will be useful in interpreting the attitude of the intrusions once the data is processed fully. Please refer to Appendix 1 for the location of the lines.

An inspection of the northern line by C.Hughes revealed promising quartz-magnetite-kspar veining with a greenish stain and pyrite alteration in limited outcrop to the east of the magnetite outcrop. Qtz-magnetite veining of this style has not been seen often previously and is considered encouraging.

Drill core from south Darwin SDD001-005 has been freighted down to Hobart to be run through the Hylogger as part of an Honours thesis being undertaken by a student at CODES.



**FIGURE 3: Preliminary data Line 8500N covering SDD004 and SDD005 and the intersections into the Prince Darwin mineralisation**

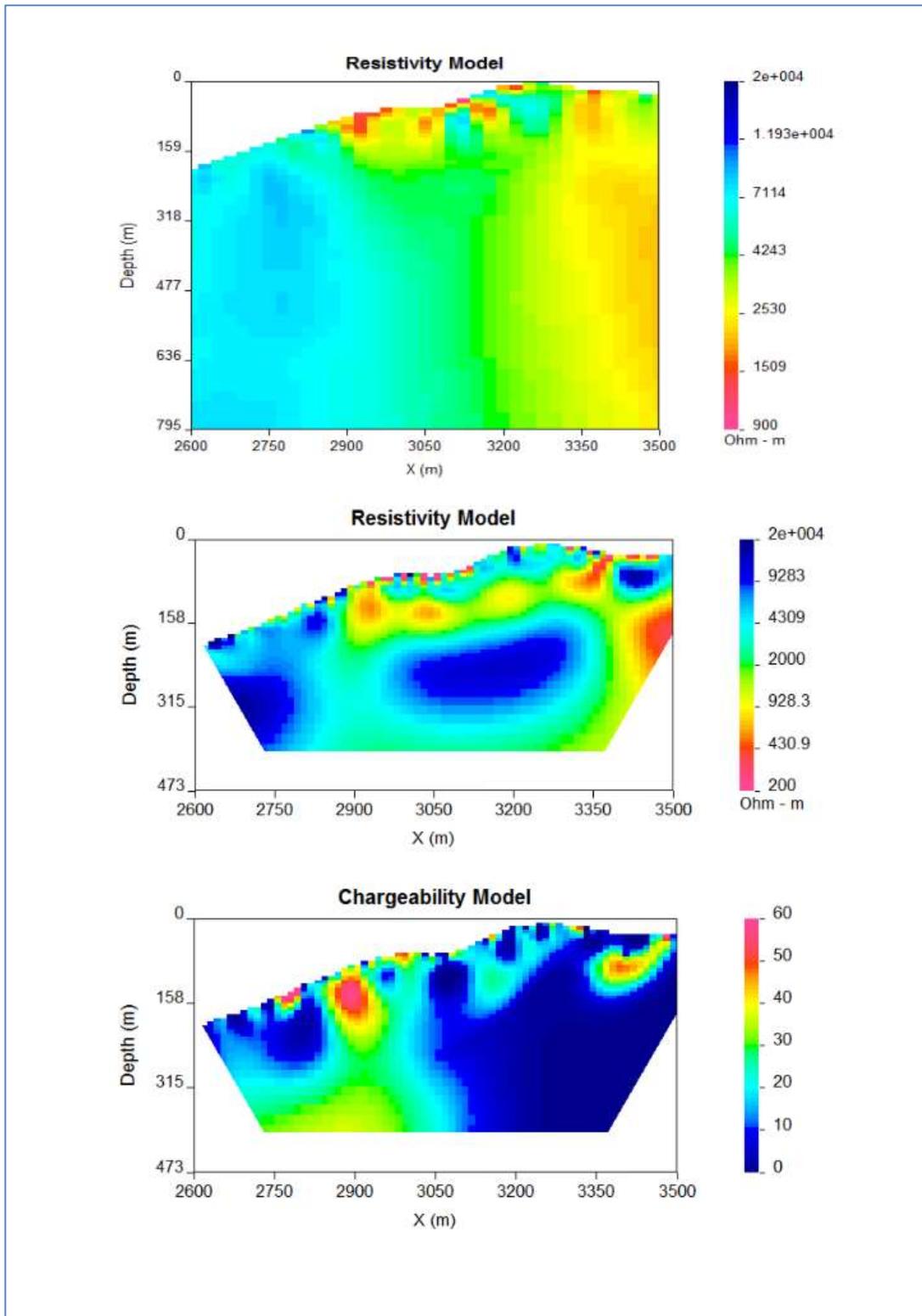


FIGURE4: Preliminary data Line 8700N covering position 200m north of SDD004 and SDD005 and the intersections into the Prince Darwin mineralisation. Note the colour levels are different for this line.

**10.0 DISCUSSION/CONCLUSION**

Once the processed IP data has been received and reviewed and drill ready targets will be reviewed. The potential for a larger scale survey will be looked at. Preliminary results coupled with limited field observations on the northern IP line look promising for a potential large scale style of Cu-Au mineralisation.

**11.0 ENVIRONMENT.**

6km of track cutting was undertaken around Prince Darwin.

**12.0 EXPENDITURE****Table 2: Expenditure**

ITEM	Cost		
Geophysics	50,000		
Gridding/access	20,000		
Salaries & Wages	14,000		
Travel and accomodation	1000		
Geochemistry			
Field Expenses			
Tenement Costs			
Freight	3500		
Core storage	4000		
other			
Rehab			
Metallurgical			
<b>Sub Total</b>			
Administration 10%			
		<b>Total: \$92,500</b>	

### **13.0 REFERENCES**

Halley, S.W, Vicary, M.J, Corlett, S.J, Wyman, B. 1996. Annual Report Tasmanian Base metals, EL's 102/87, 55/89, 12/92, Queenstown, Mt Darwin, Queenstown South. Unpublished Report for RGC Exploration Proprietary Limited, BHP Minerals Limited. (MRT Report 96-3834).

Hughes, C. E. D., 2009. Mt Jukes Project, EL51/2008. Annual report for period 16 December 2008 to 15 December 2009. Annual technical report for Pacifico Minerals Ltd.

Hughes, C. E. D., 2010. Mt Jukes Project, EL51/2008. Annual report for period 16 December 2009 to 15 December 2010. Annual technical report for Corona Minerals Ltd.

Hughes, C. E. D., 2011. Mt Jukes Project, EL51/2008. Annual report for period 16 December 2010 to 15 December 2011. Annual technical report for Pacifico Minerals Ltd.