Models and Exploration Methods For Orogenic Deposits in the Girilambone Basin

Cobar District – New South Wales

MINES AND WINES CONFERENCE PRESENTATION

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Overview – Girilambone Project

- Project Location & Background
- Regional Setting & Mineralisation Models
- Regional Examples
- Project Examples
- Geochemical Exploration Methods
Girilambone Project Location

- ~3,000km² tenement

Isokind JV (HLX70%/Glencore30%)
- Battery Tank Goldfield
- Muriel Tank Goldfield

Canbelego JV (HLX70%/Straits30%)
- Canbelego Cu Deposit
- Caballero Prospect
Regional Setting – Mineralisation Models

McQueen, 2008
Exploration Genetic Models - Regional Settings

Helix Copper & Gold Trends
- Copper trend
- Gold trend

Cobar Trend – 2.2Mt contained copper – 7Moz gold - resources/historic production

Straits Trend – 1Mt contained copper resources/historic production

- CSA
- The Peak
- Murrawombie
- Tritton
- Hera
- Mineral Hill
Utilise a generalised “Mineral Systems” approach to guide the exploration program

Test “Mineral Systems” concepts for a range of appropriate Genetic Models

Develop a regional conceptual mineralisation model for a range of “styles”

Findings?

A range of different mineralisation processes consistent with several genetic models are present district wide however, higher grades appear to be localised by later compressional / transpression structural features

The features of this “Orogenic” component have much in common with the features of the “Cobar-Style”
Girilambone Basin – Mineralisation Models
Exploration Model Evolution

Genetic Models & Associations:

1. Mafic Volcanics and Volcanogenics (VMS)
2. Turbidites (Orogenic)
3. Intermediate to Silicic Volcanics and Volcanogenics (VMS, Low Sulphidation Epithermal)
4. Variations on the theme (Orogenic/Epithermal)

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<td>Cobar Mineral Field, Canbelego Cu</td>
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Canbelego Copper Prospects – Local Setting

Cu Geochemistry

Canbelego Prospect

Caballero Prospect
Canbelego Copper Mine Prospect Area

Canbelego Copper Prospect

- HLX 70% / SRQ 30%
- Inferred Resource 1.5Mt @ 1.2% Cu (18,000t)* from surface at historic Canbelego Mine

* refer www.helix.net.au for details and definitions
Canbelego Rocks, Mineralisation & Structure
Canbelego Prospect: sulphide “stringer” and breccia mineralisation
Canbelego Prospect: sulphide matrix supported breccia, chlorite/carbonate clasts
Caballero Prospect

CBLRC020
12m @ 0.9% Cu
(incl. 4m@1.4% Cu & 4m@1.1% Cu)

CBLRC007
72m @ 0.14% Cu

FLEM Conductor Plate (85º to NE)
Caballero Prospect: transposed silicified rock bands & quartz veins with ex-carbonate/sulphide
Battery Tank Goldfield - Restdown Gold Project

Battery Tank Goldfield

Host Rock – Girilambone Group Turbidites

Au mineralisation in shear zones & "crackle breccias"

High Au:Ag ratio

Sunrise Prospect: 41m @ 2.2g/t Au

Good Friday: 23m @ 23.9g/t Au (CMPL historical result)

Boundary Prospect: 70m @ 1.1g/t, 16m @ 1g/t Au (incl. 5m @ 2.7g/t)

Amity’s Reward: 17m @ 0.5g/t Au (incl. 2m @ 3.3g/t)
Sunrise & Good Friday

- Inferred resource on 2.6Mt @ 1.2g/t Au for 100,000oz* at Sunrise & Good Friday.

- Good Friday - multiple historic pits and shafts worked around 1900's

- Sunrise - identified using soil auger sampling, 500m east of Good Friday.

- Drilling to date: Sunrise 6,000m & Good Friday 1,700m – Total 66 holes (Glencore previous 2,200m, at Good Friday)

* refer www.helix.net.au for details and definitions
Battery Tank Goldfield – Alteration

Silica, “sericite/clay”, sulphide alteration/mineralisation

Strong silica, “sericite/clay”, sulphide alteration/mineralisation

Silica, “sericite/clay”, sulphide onset – “crackle” overprint of obvious ductile features

Silicification of coarser grained units
Muriel Tank Goldfield – Golden Horseshoe & Browns Hope

- Massive blue-black quartz lodes with trace internal vughs, lamination best developed at margins.
- Visible/nuggety gold
- Well-developed bounding shear zones
- Mineralisation footprints on left stepping structure (NB: inflections/NE structures)
- Sandstone/greywacke - carbonaceous Shale (turbidites)
- Coarse grained footwall rocks – sandstone/grits
- Historical reports of malachite in drilling

Arsenic Geochemistry:
Yellow = Anomalous
Red = Highly Anomalous

Golden Horseshoe
Browns Hope

10km
**Geochemical Sampling Method**

**WGP:**
- Thin transported cover - rapid access to consistent sample media

**EGP:**
- Variable thickness transported cover
- Consistent, effective sample media at greater depth
Geochemical Sampling Tools

Quad Bike Power Auger (WGP)

Selective Interval Sampling

Hydraulic Auger - Deep Interface Sampling (EGP)
Antimony Geochemistry:

- Volcanics/Volcanogenics
- Hydrothermal Sulphide

Informative with regard to mineralisation and regional model

- Low Sulphidation Epithermal Mineralisation in a Range of Settings
Conclusions

- Gold Mineralisation on the Battery Tank Goldfield is shear hosted in zones of reactivation of multiple generations of structure.

- The gold mineralisation character has features consistent with both Low Sulphidation Epithermal and Orogenic Models.

- Gold Mineralisation at Muriel Tank Goldfield has mineralisation and vein styles more in common with “typical” vein hosted orogenic styles.

- Copper mineralisation in the WGP has features consistent with VMS and Low Sulphidation Epithermal environments.

- Structural overprints consistent with “Cobar Style” mineralisation controls represent “high-grading” and modifying features.
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References


McQueen, K.G., 2008. A guide for exploration through the Regolith in the Cobar Region, Lachlan Orogen, New South Wales. CRC-LEME.

Thank You