SMEDG - 28th Feb 2013

“OLD ROCKS NEW TRICKS”
Surprises from the Canowindra Line of Workings (CLW) in Central Western NSW.

A presentation by Tully Richards
C/- Gold and Copper Resources Pty Limited (G&C)
Location of G&C Project
Location of G&C Project showing EL’s (red) and ELA’s (stipple)
Location of G&C Project – Min Occ with EL’s

40km Strike of CLW
Location of G&C Project – Min Occ, EL’s & Canowindra Volcanics (CV)
Location of G&C Project – Min Occ with geology

- Lady Burdett Mines
- Blue Jacket Mines
- Sams Reef Mine
Host Rocks and Setting

- CLW hosted within the Canowindra Volcanic’s (CV’s)
- CV’s ~430Myo & part of the Cudal Group
  - 180kms in strike from sth of Cowra to Geurie
Host Rocks and Setting

- CV = S-Type, massive rhyolitic/rhyo-dacitic qtz-feld porph
- Chemical and petrographic characteristics of the CV and Cowra Granodiorite (CG) suggest the CV are the extrusive eq. of the CG
Host Rocks and Setting

- CV’s folded during Late Devonian Tabberabberan Orogeny
Other Deposits

Silurian ‘S-Type’ Volcanics including CV
Other Deposits

• Other deposits hosted within the meridional extents of the discussed Silurian S-Type volcanics include..

  – Rye Park       W(Mo,Bi,Sn,mt,fluorite)
  – Kangiara      Pb,Zn,Cu,Ag(Au,Bi)
  – Red Hill       Cu,Au(Ag,Pb,Zn,mt,talc)
  – Murrumbateman  Au(Bi,Ag)
Sig. Previous Exploration

• 1980’s at Sams Reef included
  – limited geochem (incl 304g/t Au from ‘mullock dump’)
  – 5 RC holes totalling 462m
  – Best intersection SRP2, 9m @ 2.1g/t Au
  – Work by Eastern Gold NL across selected parts of the CLW
Prospectus

For an issue of 10,000,000 ordinary shares of 20 cents each at par payable in full on application.

All mineral tenements referred to in this prospectus have only been subjected to very preliminary investigation and accordingly these shares are of a speculative nature.

Underwriters
Hattersley & Maxwell
105 Pitt Street
Sydney, New South Wales 2000
(Members of The Sydney Stock Exchange Limited)
Exploration by G&C
<table>
<thead>
<tr>
<th>SAMPLE NO.</th>
<th>AREA PROSPECT</th>
<th>ROCK DESCRIPTION</th>
<th>COORDINATES MGA 94</th>
<th>SAMPLE DESCRIPTION</th>
<th>ANALYTICAL RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7339</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, tuff, sericitised and chloritised, scattered quartz-limonite veining.</td>
<td>659 012E 6 280 545N</td>
<td>4 pieces of angular float from 10m across rubble face E side upper bench</td>
<td>Au (ppm) Ag (ppm) As (ppm) Ba (ppm) S (ppm) Ca (ppm) Hg (ppm) K (ppm) Mo (ppm) Pb (ppm) Sb (ppm) W (ppm) Zn (ppm)</td>
</tr>
<tr>
<td>7340</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, tuff, sericitised, quartz-limonite veined.</td>
<td>658 977E 6 280 467N</td>
<td>Chips from several large boulders at S end of upper bench</td>
<td>0.011 &lt;0.2 16 50 2 86 &lt;1 0.24 1 25 &lt;2 &lt;10 45</td>
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<tr>
<td>7341</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, sericitised, with quartz-geothite veining (some coarse and vuggy).</td>
<td>658 960E 6 280 489N</td>
<td>Pieces of rubble from 3m radius W batter of upper bench</td>
<td>0.010 0.2 18 50 3 198 &lt;1 0.24 1 112 &lt;2 &lt;10 262</td>
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<tr>
<td>7342</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, strongly silica-sericite-carbonate altered, with pyrite and quartz-carbonate-limonite veining.</td>
<td>658 969E 6 280 504N</td>
<td>Chips from boulders in pile (2 x 3m)</td>
<td>0.030 0.2 22 40 2 156 &lt;1 0.18 1 57 &lt;2 &lt;10 64</td>
</tr>
<tr>
<td>7343</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, sericitised, with quartz-limonite veining, some Cpx in and close to veins.</td>
<td>658 952E 6 280 519N</td>
<td>Chips from rubble pile</td>
<td>0.005 1.1 19 60 6 382 &lt;1 0.29 2 275 &lt;2 &lt;10 114</td>
</tr>
<tr>
<td>7344</td>
<td>Gospel Oak Quarry</td>
<td>Rhyolite, clay-carbonate-sericite altered, weathered, variably sheared, with some quartz-limonite veining.</td>
<td>658 946E 6 280 574N</td>
<td>Gouge from 1m wide N-S fault zone. N end of upper bench</td>
<td>0.002 &lt;0.2 29 70 &lt;2 24 &lt;1 0.30 1 22 &lt;2 &lt;10 56</td>
</tr>
<tr>
<td>7345</td>
<td>Gospel Oak Quarry</td>
<td><strong>Rhyolite, silica-sericite-carbonate altered, partly fresh, splassy disseminated Cpx, Py, Ca very minor Gnx, Sp, Cc and (?)stibnite. Some sulphide stockwork. (Petrology - Sample 9049)</strong></td>
<td>658 917E 6 280 615N</td>
<td>S end of lower bench. Chips from rubble pile (5 x 2m area)</td>
<td>0.010 1.7 33 70 6 2630 &lt;1 0.37 2 350 &lt;2 &lt;10 68</td>
</tr>
</tbody>
</table>
| 7346       | Gospel Oak Quarry | Argillised tuff, sheared, goethitic, with calcite veinlets and vein quartz. | 658 922E 6 280 825N | Several fragments from E end of intermediate litch | 0.005 <0.2 68 150 <2 269 <1 0.15 1 47 <2 <10 51 | 10/01/2005 15
Exploration by G&C

focused elsewhere on EL’s

Concerns included scale, apparent structural complexity, and lack of guidance from geophys. etc

until decision to drill..
CLW – Sam’s Reef drilling 2011
5 diamond drill holes for 917.8m, 3 with visible gold
CLW – M’chester Mine & Specimen Hill
Sampling from Quarry face returned up to 1% Cu

2 x diamond holes completed
  • Returned significant chalcopyrite
  • Copper grades up to 3x background, but not ore grade

Mapping and XRF soil survey

Costeans revealed trace malachite and extensive quartz veining

Veining and Cu mineralisation over >700m strike length

Previously unrecognised Cu occurrence – not in any Dept databases.
CLW – Gospel Oak Quarry (GOQ)
CLW – GOQ, 1.13% Cu (cpy)
CLW – drilled GOQD001 (456.8m)

- 150m+ chalcopyrite from first diamond hole at Gospel Oak Quarry
CLW – mapped GOQ
CLW – drilled GOQD002 (444.8m)

Au: 0.03ppm (max 0.13ppm b/w 77m - 78m)

Bi: 19ppm

Cu: 498ppm (Ave. b’ground CV’s ~20ppm)

Pb: 1940ppm

Zn: 935ppm
CLW – Gospel Oak Quarry Gold Mine
25g/t Au
Spectral Work by Scott Halley
Sam’s Reef, Sericite Composition; Wavelength of sericite 2200nm feature; Blue<2200nm (acid) Red>2215nm (alkaline)
Sam’s Reef, Gold Assays
Blue < 0.05ppm, Red > 0.5ppm
Note how most of the gold is located in the transition from acid to alkaline.
Gospel Oak Quarry, ASD Mineralogy;
View looking to the NNE
Gospel Oak Quarry, Sericite Composition;
Wavelength of sericite 2200nm feature;
Blue<2200nm (acid) Red>2215nm (alkaline)
CLW – Nth Canowindra
frequent Cu in small number of more ‘mafic’ samples...
CLW – Lady Burdett
CLW – Lady Burdett
Observations

- Au without Cu in the Sth
- Cu without Au in the middle
- Au/Cu together in the Nth
  - Cu >> in mafic/dioritic material
- ?multiple events
- Simple metallurgy
- Some events Orogenic
- Some events hydrothermal
- Features indicate high level “epithermal” re: geol environment
  - Some placer gold, not large field(s)
  - Implications include prospectivity below, ie gold still in the ground
  - Interestingly old timers ?missed ore grade material at shallow depths
- Min occ NOT in the ‘classically’ described gn-cord-bi felsics
Comments

• Drill out small resources that could be trucked to local plants... or
• Seek cash/resources to explore thoroughly and lift the lid on a potentially large/complex Au/Cu mineral belt..
• Maintain an open mind, these rocks were left for a long time without much exploration, seemingly due to a dogma that existed re: their apparent lack of prospectivity..
Ongoing/Future Work

- Follow up geochem
  - XRF increase resolution
  - Aircore (look for mafics)
- GA-IP (look for sulphide systems)
- Drilling
  - Increase level of data about min occ (ie drill to nth of GOQ)
- Hons Thesis via UoW
Marking out the next hole at Sam’s Reef
Acknowledgments

• SMEDG for inviting G&C to talk,
• The Locke Bros for giving me something to talk about
• Our landowners for access
• My colleagues for their help and enthusiasm