

Diamond drill hole LS2, Mt Mary Mine, Cygnet

Logged by J.R. Wall,
for Golden Apple Mining Syndicate, 17/8/82

| Depth (metres) | Description |
|----------------|--|
| 0-17 | Altered & well pyritised pebbly mudstone , with chlorite. |
| 17-22 | Weathered pebbly mudstone . |
| 22-41 | Core Lost. Zone of clay-epidote weathered rocks, probably mostly syenite dyke . Cuttings intensely sampled here in case of free gold in the oxidised (cf gold in pyrite lattice) surface rocks above the water table. |
| 41-50 | Epidote syenite porphyry - well mineralised on the joints. Possible chalcocite (biotite?) at 46.2m. 47.7m: Core lost. 48-49.2m: Cuttings probably well mineralised. 49.2?: chalcocite on small pyritised jointed rock chip. |
| 53.5-54.5 | Dark Grey alkaline porphyry . |
| 58 | Lot of epidote. |
| 59 | (bag sampling) |
| 63 | Dark fine grained dyke shown on contact to be younger than light epidotised-mineralised porphyry. |
| 64 | Epidote, magnetite, chlorite |
| 68-68.7 | Excess pyrite on joints.. |
| 70-71 | Joints very well mineralised with coarse grained, cubic pyrite crystals. Check bagged lab samples at 69.5, 70 & 71, where core lost. |

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| Depth (metres) | Description |
|----------------|--|
| 71.3 | Light green cherts . Pyrite vein with chalcocite & Cu/Au? too. Good core recovery here. |
| 72.68 | Possible cinnabar spot. Check sample bags at 74m for Cu. |
| 74.2 | Change in hardness. |
| 75.6 | Dyke-mudstone contact . Both rocktypes well mineralised here, plus chlorite. |
| 78.44 | Pyrite-chlorite vein, 1cm. |
| 85 | Good solid core recovery. Well mineralised on even joint planes. |
| | End of Hole |

Drill Log, Drillhole No. LS2

Drilled for: The Golden Apple Mining Syndicate.
 Drilled by: ?*
 Logged by: John Suppree for Amoco Minerals
 Date: August 1982?
 Project: Mt Mary Mine, Cygnet
 Location (AMG): 505525mE 5220450mN
 Bearing: ~ 180° Mag
 Dip: ~50° S
 Core Size: NQ: 0-17.5m, BQ: 17.5-85m
 Total Length: 85m

| Meterage | | Description |
|----------|-----|--|
| From | To | |
| 0 | 12m | <p>Fine grained grey pebbly mudstone. Pebbles show round-irregular habit with 0.2-4cm size range. Pebbles are composed of:</p> <ol style="list-style-type: none"> 1) white- creamy qtz with brown haematite staining. 2) olive- green dolerite. <p>A narrow light green aureole, probably epidote, does occur, enclosing both sorts of pebbles.</p> <p>A disseminated bronze-brownish mineral (pyrrhotite?) and granular brassy yellow pyrite were observed within this unit.</p> |
| 12 | 18 | <p>Clay seam. No core</p> |
| 18 | 42 | <p>No core - sludge sampling.</p> <p>At 18m: 5 cm of core, representing pebbly mudstone/ Feldspar porphyry interface.</p> <p>Porphyry groundmass is fine grained and light grey in colour. Feldspar fragments are sub-round to rectangular, 0.2 cm - 1 cm in size. They are creamy white to pale pink in colour.</p> <p>Reddy brown haematite and lime green chlorite occur as stains. Gn/35/5/</p> |

* Contractor drilled hole to earn interest in Golden Apple Syndicate. Bad ground cost him quite a lot. Was down to BQ very quickly.

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| Meterage | | Description |
|----------|------|--|
| From | To | |
| 42m | 53.3 | <p>Qtz, feldspar, hornblende syenite. Rounded - rectangular, creamy grey qtz, 0.2-1cm in size. Feldspar is creamy pink in colour, square - irregular habit 0.2-1cm in size. Hornblende, rounded- to acicular in habit, is of greenish black colour and generally <0.5cm.</p> <p>Both haematite & epidote staining occur throughout the sequence. Disseminated pyrite < 0.1cm is present as fine irregular blebs.</p> |
| 53.3 | 54.5 | <p>Grey qtz porphyry. Subrounded to irregular fragments of creamy white qtz, 0.2-1cm size in a fine grey groundmass. Haematite and epidote staining are present as well.</p> <p>PS minor black hornblende; little - no pyrite observed.</p> |
| 54.5 | 63.6 | <p>Nepheline Feldspathoid. Light to dark grey; irregular to sub rounded nepheline, < 0.5cm in size. Minor cream rounded (~0.5cm) qtz fragment. Both qtz & nepheline set in a fawn brown groundmass. Minor black hornblende & green blebby epidote are disseminated throughout the unit.</p> <p>Fine pyrite is relatively abundant towards the top of this sequence, and is replaced by haematite staining from 56.5 - 63.6 m.</p> |
| 63.6 | 72.5 | <p>Pebbly Mudstone Fragments of creamy white qtz, (0.1-1cm), and fawn grey dolerite (1-2cm), show rounded to irregular habit and are set within a fine jet black mudstone matrix. A fawny yellow aureole (epidote?) up to 3.5cm diameter encloses about 5% of the fragments.</p> <p>Pyrite blebs (0.2-1.5cm) are disseminated throughout this unit, more pronounced however from 67.5-72m. Fawny yellow epidote, lime - olive green chlorite and reddy brown haematite occur frequently as both stains within the matrix and aureoles around the various fragments.</p> |

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| Meterage | | |
|----------|------|--|
| From | To | Description |
| 72.5 | 73.8 | <p>Olive green pebbly mudstone containing similar sized fragments of qtz, feldspathoid (nepheline?) and dolerite within an olive green mudstone matrix.</p> <p>Haematite and epidote are the main stains and small (<0.1cm) granular pyrite is disseminated throughout the sequence.</p> |
| 73.8 | 75.6 | <p>Nepheline Feldspathoid. Similar in appearance to the Feldspathoid unit at 54.5 - 63.6. Nepheline occurs as creamy grey, round - subrounded particles up to 0.5cm in diameter. Minor creamy white qtz fragments show irregular habit up to 1 cm in size. A zoned creamy white irregular (1cm long) feldspar was also observed. Bladed- acicular (0.5 cm) hornblende is the main accessory mineral. These fragments are set within the bluey grey groundmass.</p> <p>Pyrite is disseminated throughout the sequence as granular blebs and also occurs as thin veins within small fractures that cross cut this interval. Haematite and epidote are the main stain.</p> <p>The boundary between this and the underlying sequence appears as a thin pencil- line fracture.</p> |
| 75.6 | 85 | <p>Black pebbly mudstone similar to that already observed at 63.6 - 72.5m. Matrix is reddy black, and fragments are sub-rounded to irregular greyish feldspathoid (nepheline?) and creamy white qtz 0.2-1cm in size. Chunks of dolerite (up to 3cm) are the main rock fragments.</p> <p>This sequence has cross-cutting veins infilled with orangey-brown haematite. An unidentifiable pale maroon stain borders these fractures and also completely surrounds small <0.1cm sized fragments. Granular pyrite is disseminated throughout the sequences.</p> |
| 85m | | End of hole. |