18

# drill log cover sheet

575190

Project ELLIOTT BAY Prospect EAST CAMP Hole EBT-89-EC2A

Co-ordinates 10500 mN 9950 mE Logged by D Edgecombe

| | | | |
|---|---|---|---|
| AMG reference | | Drilling company | Diamond Drilling Tasmania P/L |
| County | | Rig type | Longyear 38 |
| Parish | | Drilling type | Diamond |
| Portion | | Hole size | |
| Elevation | | Core size | HQ:51-102m, NQ:102-190.5m |
| Declination | -55° | Depth of casing | Steel:84-102m, PVC:0-84m |
| Direction | 090°G 080M T | Assay sample type | Half core |
| Commenced | 5.2.89 | Water table | |
| Completed | 19.2.89 | Water yields | |
| Total depth | 190.5m | | |

## Borehole survey

Type: Eastman

| Depth | Dip | Brg. | Depth | Dip | Brg. | Depth | Dip | Brg. | Depth | Dip | Brg. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30m | 55.0 | 079 | 190.5m | 38.0 | 068 | | | | | | |
| 66m | 52.5 | 075 | | | | | | | | | |
| 115m | 48.5 | 072 | | | | | | | | | |
| 156m | 43.5 | 068 | | | | | | | | | |

## Notes

EC-2A is a re-drill of hole EC-2, which was abandoned in a shear zone at 90.5 meters. EC-2A "commences" at 51.0m from hole EC-2. 18m of steel casing left in hole (84-102m). PVC would not go beyond 84m.

CYPRUS

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| From | To | Code | Description (mineralization in bold type) |
|---|---|---|---|
| 51 | 67.9 | | **SANDSTONE**<br>Grey epiclastic (rhyolitic) sandstone. Grain size, largely obliterated by alteration and foliation: dominantly medium above ~62m, below that interbedded fine to very coarse, grading to epiclastic breccia, some siltstones. Boundary with epiclastic breccia (67.9m) is transitional: could be taken at 63.8m.<br><br>Scattered irregularly shaped lithic and mudstone clasts (and possible interbedded mudstones) throughout. Mudstones to 10cms are common, along with smaller clasts of flattened pumice and volcaniclastic sandstone between 66.2 and 67.9m.<br><br>Alteration is pervasive quartz/sericite, becoming more chloritic through the transition zone from ~63.8-67.9m. (Grain size change from sandstone dominant to breccia dominant.)<br><br>Irregular yellow/brown carbonate veining and minor quartz± carbonate veining.<br><br>**GALENA** present as coarse crystals in vein at 54.9m. **PYRITE** (trace) associated with intense silica flooding 64.7-64.9m with 7cm highly pyritic clast.<br><br>54.9m: Quartz veining with **GALENA**<br>55.7-56.4m: Quartz veining<br>56.3m: ?Rounded (ovoid) quartz pebble 45 x 14mm<br><br>Core/bedding: 63m 58°, 67.7m 60°<br>Core/foliation: 63m 60°, 64.5m 50°, 64.6m 60°, 67.6m 60° |
| 67.9 | 91.4 | | **EPICLASTIC BRECCIA**<br>Grey/green poorly sorted coarse grained epiclastic breccia. Clasts are angular volcanics/volcaniclastics in very coarse grained quartz rich sandstone matrix. Quartz is angular to sub-rounded, generally 2-5mm.<br><br>Alteration is chlorite>sericite, plus quartz and carbonate. Minor thin (≤ 3mm) carbonate veins.<br><br>Trace **PYRITE** throughout, to ~5% from 75.5-75.53m in cubes to 2mm. **PYRITE** more common in more chloritic zone 78.5-78.9m.<br><br>**GALENA, CHALCOPYRITE, SPHALERITE** and **PYRITE** present in thin (2-25mm) intensely chloritic band at 81.75m.<br><br>Shearing becomes progressively more intense from ~75m - core becomes soft, clayey, broken. Almost zero recovery 89-~89.6m in most sheared section (equivalent to point where EC-2 was lost). |

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| From | To | Code | Description (mineralization in bold type) |
|---|---|---|---|
| | | | Core/foliation: 71m 60°, 79.5m 60°, 85m 55° |
| 91.4 | 94.8 | | **SANDSTONE/SILTSTONE**<br><br>Grey fine grained sandstone/siltstone with rare lithic clasts. Weak ?bedding lamination sub-parallel to foliation.<br><br>Alteration is sericite/quartz rather than chlorite. Alteration tends to be irregular - mottled.<br><br>Occasional carbonate veins present.<br><br>Trace **PYRITE** disseminated in matrix - common (~5%) from 94.75-94.8m. |
| 94.8 | 102.8 | | **EPICLASTIC BRECCIA**<br><br>Grey to grey/green coarse angular epiclastic breccia. Top meter is very coarse grained chlorite altered epiclastic sandstone, breccia fabric dominates from ~96m. Clasts are dominantly volcanics/volcaniclastics at top; from 96m on tabular fragments of white carbonate become more common and dominate below ~98.5m. Minor clast types include hematite/quartz and sulfide (see below).<br><br>Boundary with 'underlying' sandstone is (?)transitional - taken at base of zone with abundant carbonate clasts.<br><br>Alteration is chlorite (carbonate) dominant over sericite/ quartz.<br><br>Minor thin carbonate veins locally.<br><br>Trace **PYRITE** throughout.<br><br>98.44m: Clast 50 x 5mm **GALENA** and **SPHALERITE** bearing sulfide.<br>101.1m; 102.35m: Clasts red hematite/quartz/carbonate - inferred 'exhalite'. |
| 102.8 | 123.9 | | **SANDSTONE**<br><br>Grey medium to coarse grained epiclastic sandstone, ranging to very coarse grained at top and base were transitional with enclosing units. Coarser rocks contain clasts of volcanics/ volcaniclastics. Trace **PYRITE** throughout, more common where rocks more chloritic. |

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| From | To | Code | Description (mineralization in bold type) |
|---|---|---|---|
| | | | Alteration is sericite/quartz>chlorite. Minor local carbonate veining.<br><br>Core/bedding(?): 107.7m 60°<br>Core/foliation: 107.7m 60°<br><br>Core is locally sheared and fractured, particularly 117-118.7m where chlorite and **PYRITE** are relatively more common. |
| 123.9 | 138.0 | | **EPICLASTIC BRECCIA**<br><br>Grey/green coarse poorly sorted epiclastic breccia. Clasts are angular, most very fine grained, probably sericite altered volcaniclastic sandstone. Matrix is very coarse grained sandstone with common quartz to +3mm.<br><br>Boundaries with enclosing units are gradational, particularly at base, taken at point where sandstone becomes clearly dominant.<br><br>Alteration is chlorite>sericite, quartz, carbonate.<br><br>Minor carbonate veining.<br><br>**PYRITE** is present in trace amounts throughout, locally 1-2%. Thin (2-5mm) irregular, discontinuous bands of **GALENA/ CHALCOPYRITE/SPHALERITE/**carbonate at 125.1m.<br><br>Core/bedding(?): 125m ~60°<br>Core/foliation : 125m 60° |
| 138.0 | 190.5 (EOH) | | **SANDSTONE**<br><br>Green to grey coarse to very coarse epiclastic sandstone, clasts common above 160m - ?reflecting alteration rather than primary texture. Clasts appear to have been dominantly pumice and glassy crystal tuffs, most are strongly chloritized - primary rock may have been a pumice tuff.<br><br>Alteration changes from dominantly chlorite/carbonate above ~150m, to mainly sericite/quartz below.<br><br>Occasional thin quartz±carbonate veins throughout.<br><br>Trace to weak trace **PYRITE** throughout - notably more common (rarely >1%) in chloritic clasts above 150m. Thin (1-4mm) veinlet of quartz/(carbonate) with coarse (1mm) **GALENA** and **PYRITE** at 189.69m. |

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| From | To | Code | Description mineralization in bold type |
|---|---|---|---|
| | | | Core/foliation: 138m 70°, 144.7m 67°, 157.5m 73°, 166.5m 80°, 179.9m 80°, 187.5m 80°, 189.7m 78°. |