175

575178

drill log cover sheet

Project ELLIOTT BAY Prospect EAST CAMP Hole East Camp 1

Co-ordinates 10350 mN 10010 mE Logged by G Twomey

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:0-63m, NQ:63-178.5m
Declination	-50°	Depth of casing	HQ:63m(hole empty),PVC:0-178.5
Direction	Grid East^{G} 080^{M}5°^{M} ^{T}	Assay sample type	Half core
Commenced	31.1.89	Water table	
Completed	5.2.89	Water yields	
Total depth	178.5m		

Borehole survey

Type: Eastman

Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.	Depth	Dip	Brg.
50m	42.0	072	100m	40.0	072						
60m	42.0	070.5	125m	39.0	073						
63m	41.5	070	151m	37.0	073						
75m	41.0	074	175m	36.0	074						

Notes

CYPRUS

geology

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From	To	Code	Description (mineralization in bold type)
0	178.5 (EOH)	5a1	**EPICLASTIC SANDSTONES AND BRECCIAS** Non magnetic, fresh, moderately altered, strongly schistose, sedimentary (or air fall?) sequence consisting of poorly sorted, generally indistinctly bedded shale, fine to coarse grained tuffaceous sandstone and epiclastic breccias. Much of the finer grained units may be lapilli tuff and the coarse quartz porphyry may be a crystalline tuff. Clasts within the breccia are elongated parallel to the strong schistosity at approximately 70° to the core axis. Clasts consist dominantly of medium grained quartz porphyry fine grained shale/sandstone and limestone. 0-101.0m: A moderate chlorite-calcite-sericite alteration is pervasive throughout both matrix and clasts giving the rock a dark green color. 101.0-178.5m: The alteration assemblage sericite-silica causing a bleached appearance. Bedding appears to subparallel schistosity at 60-70° to the core axis. Minor randomly orientated calcite-quartz veins up to 2cm wide are scattered throughout but do not appear mineralized. Trace **PYRITE** occurs in rare bands up to 15cm wide where subhedral **PYRITE** crystals are aligned along schistosity planes and constitute up to 5% of the rock. 13.95-14.0m: Pink to red, **HEMATITE/PYRITE** bearing limestone clast. 18.1-18.3m: Shale bed with contacts orientated 60-70° to the core axis. 18.85-18.95: Shale/limestone unit containing 0.5-1.0% **PYRITE** as euhedral disseminated crystals and veins. 43.65-44.3m: 2cm wide, clay rich shear zones orientated parallel to schistosity. 44.5-44.6m: **PYRITE** (5-10%) occurs as euhedral grains aligned along schistosity planes. 45.4m: Two 1mm wide **GALENA/SPHALERITE** veins occur within a 5cm wide **PYRITIC** (15%) band. 56.75-56.95m: **PYRITIC** band containing up to 20% **PYRITE** as beds up to 1cm wide orientated 60° to the core axis and as disseminated grains within the epiclastic breccia.

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Project ELLIOTT BAY | Prospect EAST CAMP | Hole EBT-89-EC1 |

From	To	Code	Description (mineralization in bold type)
			65.2-66.5m & 68.6-69.1m: Highly broken ground containing clay rich shear zones. 75.9-76.3m: White quartz-calcite vein. 81.62m: A 1mm wide **SPHALERITE/GALENA/CALCITE** vein crosscuts schistosity at 70° to the core axis. 89.15-90.1m: Highly broken, sericite/chlorite rich, fault zone with slickensides common on fracture surfaces. 93.9-94.3m; 95.0-95.65m; 95.85-96.3m: Quartz (calcite) veins bordered by 5cm wide zones of highly broken and sheared, chlorite rich epiclastic. Trace **GALENA** occurs within the veins. 101.0m: Change in alteration assemblage from chlorite dominated to sericite dominated. 102.4m: A silicified rhyolite quartz porphyry fragment contains minor (2-3%) **GALENA** mineralization. 105.5-109.8m: Highly schistose section displaying abundant fracturing along foliation planes (both bedding and schistosity). This interval contains numerous thin (~5cm) very fine grained sandstone beds interlayered with coarse sandstone beds. 113.9-114.0m: A 10cm wide zone containing up to 30% **GALENA/PYRITE/SPHALERITE** as irregular beds? (or veins?). 120.0-120.8m: White coarsely crystalline quartz/calcite vein. 143.05-147.65m: Densely veined zone containing 30-40% white quartz veins up to 20cm wide. The dominant orientation is 45° to the core axis. Trace sulfide is associated with the veining. 158.15-158.45m: Two 1cm wide quartz veins which contain **GALENA/SPHALERITE** mineralization are orientated 25° to the core axis. 164.3-164.55m: A single 1cm wide quartz vein which contains a 3mm wide **SPHALERITE/GALENA** center is orientated 10° to the core axis.

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From	To	Code	Description (mineralization in bold type)
			168.0-171.0m: Minor, spaced, narrow (<1cm) quartz veins containing **SPHALERITE/GALENA** mineralization cut the rock at a low angle to the core axis.