

OBJECTIVE : To test the projected confluence of Rosalind and Premier Reefs, as calculated with apparent dips.

RESULT : Hit below the confluence, with Premier Reef at 57.0-57.7m and Rosalind Reef at 59.7-60.1m.

DEPTH : 62.5m

HOLE SIZE: TT46

COMMENCED: 10th January 1994

COMPLETED: 11th January 1994

Depth	Direction	Dip
0	119.5	-40.0
30	117.5	-39.3
62m	116.5	-38.8

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FROM	TO	DESCRIPTION	ALT	CD	ROCK TYPE	MINERALISATION
0	62.5	Sequence of turbidite beds of dark grey greywacke grading up to black shale: drilled down sequence (fine to coarse in each bed), for first 31m, up sequence for second half. Beds mostly about 1m thick, rarely <8m thick. 0-1.5m 1.3m core lost 8.4-10.6m Mainly quartz veins, well contorted, and minor brecciation. 12-17.8m Frequent irregular and contorted quartz veins. 34.3-35.2m Irregular veins to massive quartz. 43-43.3, 44-44.9m Contorted massive quartz veining. 48.7-53.9m Patches of contorted quartz veins to massive quartz in fine, partly brecciated shaley parts of graded beds. Pyrite (<2%) associated with quartz. 57.0-57.7m Brecciated turbidite and quartz fill with vugs of crystals, <3% pyrite. Contact 80°. Premier Reef. 57.7-58.4m Fault, pug either side of pyritic sandy mud, 80°. 58.4-59.2m Partly brecciated with quartz fill. Stringers of pyrite. 59.7-61.0m Brecciated turbidite and semi-massive quartz + 5-10% sulphides: fine grain arsenopyrite, pyrite, sphalerite, minor chalcopyrite. Contacts 25-30°. 2 generations quartz veins. Rosalind Reef. 62.2-62.3m Black shale top of a graded bed. Note: in view of the low grades of samples taken in Premier Reef and the continued stoping of Rosalind Reef below the Long Adit level, compared with the grades in this hole, it seems the hole passed beneath the confluence, intersecting the Premier Reef first, and then the Rosalind Reef. This is supported by the angles of the contacts of the reefs: the reef dipping westwards would be intersected at an obtuse angle, and the easterly dipping reef at an acute angle, in these circumstances.			sst-slt-shl turb	Pyrite (2% associated with quartz). Premier <3% pyrite in reef. F Pyritic sand. Pyrite stringers. Rosalind 5-10% sulphides: arsenopyrite, galena, pyrite, sphalerite, chalcopyrite.