

The majority of the grid is covered by Tertiary basalts. Mines Department drilling at Fooks Lode shows the basalt as being up to 30 metres thick, with an average of 20 metres. At least one Tertiary deep lead lies beneath the basalt. Near Fooks Lode, at 10,140N, 9840E, a tin bearing deep lead is exposed. The gravels contain some small rounded pebbles of quartz porphyry. Besides the porphyries at Mt. Bischoff, other porphyry dykes outcrop to the north-east of Fooks Lode. The dykes strike south-west beneath the basalt cover. Further studies will be necessary to establish whether the deep lead emanates from Mt. Bischoff to the north, or from a source beneath the basalt to the south.

Cambrian rocks are exposed in the Waratah River valley at the western end of the grid, and have been intersected in the Mines Department drilling beneath the basalt cover. The exposed rocks consist of greywackes, siltstones, mudstones and rare chert, sometimes brecciated. In the diamond drill cores, dolomitic horizons have also been intersected. Of the 9 holes drilled, FL's 6, 8 and 9, situated towards the south-east of the drill pattern, intersected dolomite and dolomitic siltstone/shale. The following predominantly dolomitic intersections were made:

Hole Number	From	To	Width (m)
FL 6	58	147	89
FL 8	52	115	63
	128	158*	30+
FL 9	93	161*	68+

* End of drill hole