be irregularly distributed through the rock. The surface soil is very heavy in that localisy. It also occurs on Criss creek and Devdman river, and Jacko lake on the South Hill seems to be destined to take a prominent place. Intrusive volcanic rocks of later date are there in contacn with the gabbros. posits of copper are near outcrops of the Tranquille ash beds.

Copper Creek.*—On the west side of Copper Creek is a zone of H. Merritt. found. The general direction of the immediate neighborhood grade ore with the result that one granite area. may now wash quicksilver in the creek below it. Parallel levels were bar have been traced by Mr. Coldriven into the mountain side, and quhoun 10 miles north of their octhe works now resemble a huge quhoun 10 miles north of their octhe works now resemble a huge rabbit warren. Under the earlier currence on Criss creek. These domanagement they produced 7,865 lomites may be in part the result of . lbs. of quicksilver trom high-grade alteration of other rocks, but would ore. This quicksilver zone extends seem from their permanence and for a great distance, crossing Copper creek higher up, where it is again found to contain cinnabar at Hardie mountain. In that locality it occurs disseminated in dolomite and in an altered rock which appears to be volcanic ash, also in rich little veins traversing these, and in the channels of extinct hot springs. The best ore is a brecciated quartz them. The work of the Geological comented with lime on this same zone, cinnabar was discovered by Mr. A. J. Colquhoun at Toonkwal lake last year. This place is 12 area to be traversed by a very small miles south of Savonas. There is but little rock showing, but the zone appears to be of considerable but affords a good groundwork on width. Between these two, near Kamloops lake, dolomite and dolo- which to base observations.

yielded 9 per cent., and it seems to mitized rocks about 1,000 feet wide are seen at several points to carry cinnabar. Throughout the upper part of the Nicola series, especially near the west end of Kamloops lake, side of the granitic area of Coal a little cinnabar may be found. North of Copper creek, on Criss creek and Deadman river it occurs It is in the Tertiaries, and there seems note-worthy that nearly all the de- to be a most promising district about 3 miles up Criss creek, where the zone of cinnabar bearing dolomites run nearly north and lie near * Trans. Inst. M. E., vol. xiii., page 3, granite. This zone lies west of the dolomites and porphyries which other, but may be the same one overlies the cold water conglomer-faulted. It is noteworthy that the ates. In irregular quartz and cal- Copper creek zone has at one end cite veins through these cinnabar is two small areas of granite and in the veins is north and south. Cin-the infinediate neighborhood of nabar is found in the country rock Hardie mountain mines another as well as in the veins. A consid-granitic area. In the granite of erable sum has been spent at the Copper creek some cinnabar occurs. month of the creek in mining in Near the Trent mine cinnabar is these rocks without success. A found in dolomite close to another furnace was built to treat the low-found in dolomite close to another

The dolomites containing cinnathe fact that they coincide with the line of strike and dip of the bedded rocks of the district, to be in part at least a sedimentary formation. strata of the district are throughout so heavily faulted that it is extremely difficult to classify Survey in this district is very rough, (probably on account of the great party), especially in the outlying distdicts, Criss creek, for instance,