some cellulas or seoriaceous. Interspersed were beds of tenacious blue clay which had retained the foot prints of horses since the spring. The course of such a depasit in this situation could not readily be traced.

The two streams above mentioned unite and form one branch of the Yakamia, to the lower part of which the Indians give the name of Tisko.

The aspect of the country on descending to its valley is one of extreme desolation. Narrow ravines or cañons bordered by walls of basalt having a rude columnar structure converge from the mountains, the strata dipping toward the east at a small but varying angle. The foothills are clothed with Purshia and Artemisia, and strewn with siliceous pebbles. The bottoms are barren and stony, and intersected with arroyos. A narrow and broken line of dwarf oak and willows indicates the windings of the stream. The Indians have induced here and there on the margin of the water courses small garden patches, where they raise potatoes a little corn, and other vegetables, but the country generally is a desert. The elevation of this valley at the forks is 1519 feet above Vancouver. From that point the course of the Expedition was nearly north, crossing the several branches of the Yakamia

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