PETROGRAPHY.

PRELIMINARY STATEMENT.

The following description of the petrography of the Conest volcanics comprises: a summary of the results of the done by C. W. Knight in describing these rocks; descrip of the primary rock types found in the breccias by the prowriter, with one analysis; descriptions of the present type pyroclastic rocks not; a discussion, summary, and concluin regard to the petrology of the volcanics.

SUMMARY OF KNIGHT'S RESULTS.

The specimens studied by Mr. Knight were collected 1902 by Mr. W. W. Leach, and belong to the collection of Geological Survey of Canada. He notes the following types: augite trachyte, tinguaite, andesite, and analcite trach The last type is represented by an analcite-orthoclase which he names blairmorite-tuff, after the town of Blairm Alberta, near where some outcrops of the rocks occur. suggests the name blairmorite for a rock, the probable fine of which he predicts, and which will contain icositetrahe phenocrysts of analcite. He also describes a rock fragm of this type consisting of (loc. cit. p. 275) "......phenocr of orthoclase and analcite less than 1 mm. in diameter sea groundmass of feldspar a the (a few of which have twinning lamellae of the plagioclases) and a few smaller a cites. Some titanite is also present......"

The following minerals were noted by Knight in the sp

mens loc. cit. p. 207:-

"Orthoclase, sanidine, analcite, augite, ægerite-aug ægirite, acmite, diopside, titanite, microcline, anorthocl andesine, nephelite, hornblende, apatite, biotite, garnet, m netite, and various secondary minerals, such as chlorite, limon calcite, etc. Sodalite is probably present in small quantit

¹Knight, C. W. Can. Rec. Sci., Montreal, vol. 9, 1905, pp. 265-278.