

Potvrzení výskytu neovulkanického tělesa v Luži na Chrudimsku (Železné hory)

Affirmation of a Cenozoic volcanic conduit in Luže near Chrudim (Železné hory Mts.)

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Abstract

After about 180 years of doubts, presence of Cenozoic alkaline volcanic neck has been affirmed in Luže as far as 150 km off the Eger Rift. The Chlumek basanite is located some 800 m northwest from well-known Košumberk basanite and its top hosts church of Virgin Mary. The rock is composed of olivine and clinopyroxene phenocrysts enclosed in groundmass of clinopyroxene, magnetite, plagioclase and nepheline. The basanite at Chlumek contains high amount of peridotite xenoliths, on its margins also porcelanite xenoliths (contact-metamorphosed marlstones and claystones). Apart of xenoliths, xenocrysts of various minerals occur as well. The basanite at Chlumek represents a primitive rock of within-plate alkaline character and it is the least weathered/altered volcanic rock in the area of Pardubice.

Key words: *basanite, volcanic conduit, peridotite, Bohemian Massif, Geopark Železné hory, Eastern Bohemia*