



Jasenički kiseljak (Vitinački kiseljak) - mineral CO₂ water (Zvornik Municipality)

In the valley of the river Jasenica in the village of Jasenica (Zvornik Municipality), about 6.5 km west of Kozluk, there are several springs of mineral water rich in CO₂. Springs appear on both sides of the river in Eocene flysch that is built of sandstones, conglomerates, clays and marls, but it is assumed that the waters are predominantly accumulated in Cretaceous or Triassic limestones, which lie at the base of the Eocene flysch. Drilling was performed in the area of springs and some springs dried up after the construction of wells. The total yield of all springs and wells is about 0.8 l/s (Miošić and Samardžić, 2016).

The waters of Jasenički kiseljak are cold mineral waters, HCO₃-Cl-Na-Ca type with total mineralization 3-7.1 g/l, rich in CO₂ 1.2-1.7 g/l (Miošić, 1977). Waters have increased levels of Fe (Fig. 1) and contain H₂S gas.



Figure 1. One of the mineral CO₂ springs in village Jasenica (data source: <http://www.upoznajspsku.com/index.php?language=SR&charset=latin&page=14>)

See also

[CO₂ rich mineral waters of Kozluk - geomanifestation on the territory of Zvornik Municipality.](#)

Generalities

The thermal mineral spring Rasol-Priboj and mineral springs in Jasenica and Kozluk appear on the same line as well as thermomineral waters of Banja Koviljača, so that probably all these geomanifestations belongs to the same fault.

According to Milivojević et al. (1998-2001), the mineral waters of Jasenički kiseljak are formed in limestones, but their physico-chemistry characteristics change due to circulation through the fault zone towards the surface where they pass through flysch sediments.

Anomalies

Mineral composition - High mineralisation and content of CO₂.

Data

FZZG_factsheetJaseničkiKiseljak	Temperature of water (°C)	Q (l/s)	Mineralisation (g/l)	Specific component	Aquifer
Spring "Glavni kiseljak" (on the right bank of Jasenica; other names of spring are Andrina voda and Spring no. 1) - Jasenica	13,2		4,1	CO ₂ = 1,2 g/l	Sandstone, marl, conglomerate (E)
Spring "Begova česma" - Jasenica		0,0042	4,0	CO ₂ = 1,54 g/l	Sandstone, marl, conglomerate (E)



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