

Mineral Site Passport

Artana (Novo Brdo)

Commodity: Lead, Zinc, Silver, Manganese
Map Sheet: K 34 - 55 B

Ownership: Government

Status of Project: In production / Active mine



Infrastructure:

The active mine is located about one kilometre to the north-west of the village of Artana/Novo Brdo, which is accessible by paved road and is supplied with electric power.

Regional Geology:

The rock units in the surroundings of the mine belong to the Artana Metamorphic Belt. In this area the geology is dominated by NNW-SSE orientated faults.

The rock units in the Artana ore field are characterized by several Pre-Tertiary geological units represented by metamorphic rocks of the Dardanian massif, sediments of Veles series, ultrabasic rocks, and lower and upper Cretaceous sediments accompanied by Tertiary volcanic rocks.

Mineralization / Type of Deposit:

The ore bodies are located at the metasomatically altered contact between the metamorphic series and the Tertiary volcanic/subvolcanic rocks. The following ore minerals are present: Sphalerite, galena, pyrite, pyrrhotine, arsenopyrite, marcasite and chalcopyrite. Gangue minerals are quartz, calcite, siderite, manganosiderite (oligonite) and ankerite.

Extension of Mineral Occurrence:

Most of the mineralization is hosted by marble within the metamorphic series, dipping at 60° to 80° west. The ore bodies vary in thickness between 2 to 60 m and extend along strike for 150 – 400 m.

Resources:

Status 2009	Tonnes	Pb %	Zn %	Ag g/t	Au g/t
Measured Resources	41,000	4.38	5.08	104.2	1.4
Indicated Resources	2,000,000	3.76	4.87	128.2	0.8
Total Resources	2,700,000	4.43	5.42	140.6	1.0

Two new prospective ore zones were discovered by surface drilling and underground exploration.

Past / Current Production:

In the Artana ore field the following Pb-Zn deposits are differentiated: Përroi i ngjyrosur (active mine), Artana-Mn (exhausted), Kaltërina and Përroi i thartë (in exploration). The mine was designed to produce 1,200 tonnes of ore per day (about 350,000 tonnes per year). This production was never achieved, the maximum production was 200,000 tonnes of ore per year.

Mining Method:

Underground mine.

Mineral Site Passport Artana

General Evaluation:

According to the mining data, the Artana Mine represented also one of the richest gold deposits in Kosovo.

A reprocessing of tailings and mine dump material could be feasible.

Additional Graphics:



Fig. 1: Topographical Map of Artana area.

