

Prediction and a new Method of Exploitation of Gold Deposits with Uranium in the Variscian Molass Conglomerate Basins of Germany

Elkhan A. Mamedov

Baku State University. The Scientific-Research Laboratory "Prediction, Search and Economic Estimation of Gold Placer Deposits", . 23, Z.Khalilov str., Baku AZ 1148, Azerbaijan . <http://www.nativegoldau.narod.ru> E-mail; elkhanau@rambler.ru.

Abstract. Gold deposits with uranium in the conglomerate assize belong to the leading Industrial type. They are main suppliers of gold and uranium in the world. The deposits Witwatersrand (South Africa), Blind River (Canada) and so on.

In the history of development of the Earth's Crust gold deposits with uranium in the molass basins have been formed repeatedly in the periods of revolutionary epoch of orogenesis, mountain building and erosion of auriferous and uranium deposits.

In the territory Germany this Variscian epoch of orogenesis and mountain building, accompanied by forming of gigantic molasses troughs and depressions with thick conglomerate assize. Sudetion, rudnohorian, asturian, zaalian and pfalcian phases of the revolutionary orogenesis and mountain building played an essential role in the forming of thick and extended conglomerate assize in molass basins. On the base of metallogeny of gold and uranium of Germany, the geological criterions, paleohydrology and so on are predictive areas:

- Subvariscian frontal depression. Gold ore province of Ardenn. The High Fenn. Aachenian carbonic basin. Conglomerates of the Upper Carboniferous basins Inda.

- Hessian depression. Korbakhian gulf. The regions of gold deposits Korbakh and copper-uranium deposits Vreksen. Conglomerates of the Permian age.
- Laach-Badenian depression. The regions of the gold and uranium deposits Swartwald {Baden-Baden, Wittiken, Karlsruhe and so on} and auriferous placers. Conglomerates of the Carbon- Permian age.
- The Eastern-Thuringian trough. In the regions of gold deposits Shleits, chamoisite Deposits with ancient auriferous quartzic veins Shvartsburq saddle and Ordovician schist. Conglomerates of the Carbon- Permian age. Auriferous conglomerates of Saxonian of the Saxon-Thuringian zone, and also the western margin of the Czechian massif.
- Molasses troughs of Rudnohorie Mts, Delenian, Olbernhau-Brandov and other troughs in the region of development of Noble quartz formation (Freiberg), gold bearing arsenic pyritic and pyritic ores with native gold in Saxonia.
- Conglomerates of the Carbon- Permian age
- and so on

In the Variscan molasses basins conglomerates have a huge thickness, often they clastic rocks of gold and uranium deposits.

The novelty of the exploitation is that the Conglomerates are dissected with water, are probed according to the bearing of Conglomerates with large billow method and are exploited as placer gold deposits with uranium. Re-estimation of the Variscan molasses conglomerates basins including carboniferous and cupriferous, on gold with uranium

Thus, the exploitation of Conglomerates of Variscan molasses basins on gold and uranium with the use of the new method of exploitation allows the creation of a large and unique mineral- raw base of the Gold-mining Industry with Uranium of Germany.