

Gold mining Deposit





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This gold deposit is located on the territory of the Zhaksinsky district of the Akmola region, Kazakhstan. The studied area is the western outskirts of the Kazakh uplands, with absolute elevations ranging from 248 to 423 m and relative elevations of up to 50-70 m. The gold ore occurrence was discovered in 1989 as a result of geological survey work on a 1:50000 scale, conducted jointly by PSE-33 and GRE-37 of the State Enterprise "Stepgeology."

In 1992-94, GRE-37 conducted pre-claiming and appraisal work at the field ore occurrence. Due to the termination of funding, the volume of drilling appraisal wells amounted to 17.8% of the projected volume. Similarly, around 5000 core samples remained unanalyzed for the same reason.

Keypoints

- The gold deposit is situated near the eastern side of the elongated coal trough, oriented in the meridional direction. This geological structure comprises terrigenous, carbonate, and terrigenous-carbonate formations dating back to the Carboniferous period.
- The deposit's area is sandwiched between faults, distinctly marked by zones of intense crushing and brecciation. It also features a series of dikes made up of lamprophyres and porphyrites. An intense hydrothermal process occurred, resulting in the formation of beresite-type metasomatites and the deposition of gold ore mineralization.
- Within the field, three hydrothermal-metasomatic formations have been identified:
 - Propylite (quartz-chlorite-sericite-epidote metasomatites) - representing the subalkaline stage of metasomatism.
 - Berezitic (beresitized rocks, quartz-sericite metasomatites or beresites) - indicating the acid stage of metasomatism.
 - Argillisitc (quartz-carbonate-kaolinite metasomatites) – associated with the acid stage of metasomatism.

Description of the ore zone

- As a result of prospecting and appraisal work within the deposit, four ore zones were identified and traced along the strike and dip. The length of the latter ranges from 100 to 850 meters, with a width varying from a few meters to 130 meters. The total length of the ore zones in the deposit was 1230 meters.
- Within the contours of these zones, a 0.3 g/t gold cut-off grade was identified and included in the calculation of reserves for eight ore bodies.
- The discovered ore bodies, ranging from the surface of the basement to depths of 14-18 to 91-97 meters, are subjected to oxidation.
- The most common minerals in the weathering crust ores are quartz with chalcedony, and the primary ore mineral in the oxidized ores of the weathering crust is native gold.
- The ore bodies exhibit a southeast fall, with average angles of incidence ranging from 60 to 78 degrees.

GROSS REVENUE

TBA

EBITDA

TBA

BUSINESS TYPE

Mining Businesses

COUNTRY

Kazakhstan

BUSINESS ID

L#20240587

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