Keng Kiik Ore-Bearing Area (Tungsten)

General information

The deposit is located in Central Kazakhstan, northeast of Betpakdala. It was discovered in 1949 as a result of detailed prospecting and is a typical representative of tungsten quartz-greisen deposits of geological and industrial type. The deposit is located in the western exocontact of the Kaiba granite massif.

Subsoil Use Contract

The current Subsoil Use Contract for Geological Prospecting is concluded for 6 years.
The signature bonus has been paid.
The work programme is executed in full within 2 years.
The allotment's area is 330.3 km^2.

Intended Purpose of Investments

Searching for a potential joint venture partner to develop the project in the Keng-Kiik Area.

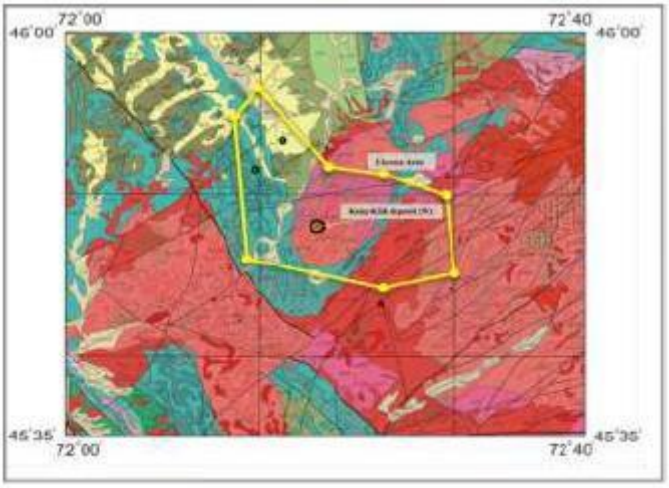
Investment Attractiveness of the Keng-Kiik Area

The area has huge potential for the increase of various metal resources.

Geological exploration of the Keng-Kiik area has established that evaluation of deep horizons, as well as the flanks of the Keng Kiik deposit, will significantly increase the resource base of tungsten in Kazakhstan.

Project Description

The content of tungsten trioxide in the ore bodies is 0.4-9.0%. The average content within the contours of the estimated reserves for 12 ore bodies is 0.46%, and the average content of BeO is 0.05-0.10%.
All ores of the deposit are easily beneficiated. Under laboratory conditions, the recoverability of tungsten reaches 92%.



The deposit was started to be explored by miners in 1951-53. In 1953, due to the discovery of the testing ground, all work on the deposit was stopped, and reserves of 3,000 tonnes were written off.

Significant concentrate halos of tungsten minerals and tinstone are present at the deposit. The most promising area is the one to the west and southwest of the deposit and covering the pendant between Kaiba, Maitokken and Kengkiik satellites of the Kaiba massif, which abounds with poorly studied ridges of various granites, including subalkaline leucogranites of the ore-bearing Maikul Sequence. Also, to the northeast, a previously unknown occurrence of wolframite with well-developed mineralisation was discovered in geological conditions similar to the Keng-Kiik deposit.

Indirect evidence, repeatedly verified by field observations in many granitoid massifs of the region, of the presence of shallow and uncovered by erosion younger granite massif is the total bleaching of alkali feldspars in granites of Zhalgyz Sequence (Late Carboniferous - Early Permian), which compose the southern half of the Keng-Kiik satellite.

Reserves and Resources

Summary table of reserves and resources:

	Wo_3, t	Wo_3 content, %	Pb, t	Zn, t
C2	3,000	0.46		
P_1	36,000	0.46	700,000	500,000
Total:	**39,000**		**700,000**	**500,000**

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