

The deposit is located 22 km to the north-east of the town of Shepetovka, Khmelnytsky region of Ukraine, covering uncultivated poor land.

The deposit occurs in steeply dipping metamorphic beds of Lower Proterozoic overlain by Quaternary loams and Neogene sands of varying thickness from 2 to 49 m (14 m on the average).

Commercial mineral, biotite graphite gneiss, extends north-west for 24 km.

Due to the intensity of graphite mineralization and taking into account the infrastructure of the populated area four adjacent plots have been established.

Two **reconnoitred** plots of the deposit divided by a **railway** bed and a road bed are 2.7 and 3.3 km long. Each of them has series of sub-parallel ore bodies 5—83 m thick (usually 30-60 m) with nearly constant percentage of crystalline graphite —6.0—7.2%.

indicated resources of two plots calculated to 150 m depth **total 320 mill** tons of ore (with average graphite content of 6.37%); inferred resources up to 250 m depth amount to 580 mill tons (with 6.20% average graphite content). Inferred resources of the four plots estimated to a depth of 250 m are 1 billion tons (6% of graphite **as** little).

Laboratory and technological tests and mineral composition analysis show that graphite concentrate may be used for producing pencil leads, steel additives, graphitizers as well as furnace, crucible, electric carbon, gun powder, battery, low ash and lubricating graphite.

Yield of graphite in concentrate varies from 88 to 90%.

Great reserves, high quality of graphite, easy rock quarrying favourable location of deposits, foreign and domestic market requirements will account for the success of joint venture.

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