

The deposit is located 70 km to the South of Melitopol of Zaporizka region, 48 km from a railway station on the Azov sea shore between Utlyuksky and Molochny limans in arable lands.

Geological structure of the deposit is the following: alternating clay, aleurolite, sandstone, marl, limestone, sand, coquina of Paleogene age 600 m thick; Neogene sand, clay, sandstone, marl, limestone (Tortonian), clay with rare sand layers, organic and organic-debris limestone with coquina layers, sand, clay with ferrous sandstone strata, clay (Sarmatian) which thickness amounts to 200 m; Quaternary sediments, represented by sand and loam 32-34 m thick.

The revealed aquifers and waterbearing complexes are the following (from top to bottom):

— of contemporary liman-sea sediments (sand with shells, silt, clay) 7-10 m thick; depth of occurrence ranges from 5 to 8 m; discharges are of minor importance; mineralization fluctuates from 4.5-9 to 48g/l;

— of Quaternary sediments (loam, more rarely sand) 3-5 m thick; depth of occurrence is up to 17 m; discharge is small. Water is hydrocarbon&e-chloride, sulphate-chloride and chloride with 7-10 g/dm³ mineralization;

— of Kuyalnian (Kuyalnitsky stage) clayish sands up to 10 m thick; they are developed through all the deposit, depth of occurrence varies from 19 to 58 m; discharge is up to 3 l/s. Water is artesian chloride sodium with 17-76 g/dm³ mineralization;

— of Kimmerian clayish sand and ferrous sandstone 24-49 m thick, developed through all the deposit. Water is artesian, levels are set 3-14,5 m under the Earth's surface with the 0.2-0.5 l/s (up to 3 l/s) discharge. Chloride sodium mineralization varies from 5 to 10 g/dm³;

— of Sarmatian organic debris and oolite limestone 42-46 m thick, developed through all the deposit. Depth of occurrence ranges from 95 to 145 m; water is artesian, levels are set 2.5-14 m under the Earth's surface; discharges vary from 2.5 to 5.56 l/s when 0.5-2.6 m fall of water surface. Water is chloride sodium nitric-methane with 6.0-9 g/dm³ mineralization and without any specific components and properties; it is cold (14-16°C) with pH 6.8-7.7. Used for diluting of brines, confirmed reserves total 360 m³/24 hours;

— of Tortonian organic-debris limestone, sand, sandstone 4,5-5 m thick, that are developed through all the deposit, depth of occurrence varies from 207 to 210 m under the Earth's surface; discharge equals 1.7 l/s when 8.0 m fall of water surface. Mineralization of 20-22 g/dm³ is chloride sodium, temperature varies from 12 to 14°C;

— of Oligocene sediments, that are spread through all the deposit: three waterbearing strata separated with weakly permeable layers. are distinguished there: sand 95-100 m thick in the 245-345 m depth interval, sand with coquina layers 52-63 m thick in the 430-490 m depth interval and sand 65 m thick in the 510-575 m depth interval. Sand-carbonate stratum contains mineral water (brine) without any specific components. Water is artesian, levels are set 9-10 m under the Earth's surface, discharge ranges from 2.8 to 4.8 l/s when 14.2-21.6 m fall of water surface. Being nitric-methane. chloride-sodium, water has 49-53 g/dm³ mineralization, it is cold (15°C). pH 7.2.-7.4 Biologically active microelements (in g/dm³) are the following: iron — 0.003-0.01; bromine-0.092-0.406; iodine — 0.014 -0.016; silicic acid-0.01 3-0.028; metaboron acid — 0.03. Confirmed reserves total 700 m³/24 hours;

— of Eocene-Paleocene carbonate sand, clayish sand, sandstone, limestone; depth of occurrence varies from 770 to 802 m. Water is highly artesian with 3.6 l/s discharge when 3.7 m fall of water surface. Mineralization of 53 g/dm³ is chloride sodium; outlet temperature equals 28°C.

As to their curative properties, mineral brines of Oligocene sediments are recommended (after dilution) for the moving organs, nervous system, gynaecological and cardiovascular diseases; mineral water of Sarmatian is good for chronic gastritis, intestinal, gall-bladder and liver diseases as well as for lavage of stomach and bowels, gum watering, inhalation when chronic nasopharynx diseases.

Construction of the sanatoria and spa complex, apartments for specialists and reconstruction of purification plants are foreseen”.

Unique mineral water, wide range of its medical application, favourable combination of temperate weather in summer and low relative humidity of the seaside climate, warm sea waters (up to 24.4 C in summer) and vast reserves guarantee popularity of the sanatoria and spa complex and its profitability.

Our address is:

Ukraine, 252601, Kiev - 34,
Volodymirska street, 34

Telephones: 228-60-51

228-32-43

Telex: 131419 TOPAZ SU

Fax: (044) 228-62-21