

SURFACE PLANT FOR BRINE EXTRACTION FROM THE MIROVO ROCK SALT DEPOSIT NEAR PROVADIA, VARNA REGION, BULGARIA

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1. INTRODUCTION

Geosol Co. Ltd., Provadia develops and exploits Bulgaria's only rock salt deposit at Mirovo which was discovered in 1919. Since then the deposit has been continuously studied and exploited to explain its geology, hydrology, the chemical composition, the physical and chemical properties of its rock salt mass, etc. The industrial development of the Mirovo Rock Salt Deposit started in 1954 after the completion of the first Soda Ash plant in Bulgaria.

The project for the development and exploitation of the Mirovo Rock salt Deposit was worked out by the All-Russian Research and Design Institute, Galurgia in Sanct Peterburg, Russia.

The main task when working on the design was to select a system and technology of solution mining that suits best the complex mining and geological conditions at the salt deposit.

Systematic laboratory studies and industrial experiments were carried out for the design of the solution mining technology.

The plant was designed and works to extract brine for the chemical industry only.