Hydrokinetic Background of West Taijinar Salt Lake before Its Exploitation

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Abstract: West Taijinar Salt Lake is a large-scale salt mine, mainly composed of underground brines with various valuable component elements. In terms of their states of existence, the brines can be categorized into 4 layers, namely, surface brine (lake water), latent intercrystalline brine, latent cavity brine, and pressurized intercrystalline brine. The pressurized intercrystalline brine, which occupies most of the lake area, is the major mineral storage layer of the mine. The observation bores showed that the brine level is generally high from September to October, whereas low from January to May. The average level is 2681.34 m.

Key words: Salt lake; Exploitation of brine; Hydrokinetics

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