### GEOLOGIC COLUMN AND UNIT DESCRIPTION

<table>
<thead>
<tr>
<th>AGE</th>
<th>ROCK UNIT</th>
<th>LITHOLOGY</th>
<th>THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quaternary deposits</td>
<td>Q1: sand and gravel</td>
<td>Thickness unknown</td>
<td></td>
</tr>
<tr>
<td>Quaternary deposits</td>
<td>Q1: silt and clay</td>
<td>Thickness 150 - 200 m</td>
<td></td>
</tr>
<tr>
<td>Quaternary deposits</td>
<td>Q0: silt and clay</td>
<td>Thickness unknown</td>
<td></td>
</tr>
</tbody>
</table>

#### UNIT DESCRIPTION

- **Recent alluvium**, consisting of silt, clay and gravel, is widely distributed along the rivers and the coast of Pei Hai (Bo Hai). It also covers low terraces not shown on the map. The thickness is less than 20 m.

- The Quaternary deposits in the region are plain range in age from Recent to Pleistocene. Lithologically, the deposits can be divided into Q1, Q2, and Q3. Q1 constitutes the core of the Huang He (Yellow River) in the northern part of the map area. It is composed of a combination of silt, clay, and gravel layers. The thickness varies from 150 to 200 meters. Q2, which lies beneath Q1, consists of sand, silt, and clay. The thickness is about 150 meters. The highest part of the section is Q3, which is composed of gravel, sand, and silt. The thickness is about 150 meters. The deposits are interbedded with silts and clays.

- A line of light points to the left indicates this sequence. The Quaternary deposits on the right side of the line (Q0, Q1, Q2, Q3) attain a maximum thickness of 300 m (Ye, 1936).

- Ground water. reconnaissance of ground water.- The ground-water level at the depth of 2 to 10 m. The quality of water is the worst throughout North China because of the high content of Ca, Mg, K, and Na. The deep-water table is at a depth of 100 m. The depth along the sea coast is about 200 m or more. The water is brackish in the southern half and fresh in the northern half of the map area. The quality of water at the well is due to more than 3,500 mg/l. but is good in the southern half where the Cl content is low.

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**References**