

## عنوان مقاله:

Determination of groundwater factors using geoelectrical methods to design a suitable dewatering system stem in Area No.3 of Gol-e-Gohar iron ore mine, Kerman

## محل انتشار:

دوازدهمین کنفرانس ژئوفیزیک (سال: 1384)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

of Gol-e- Gohar iron ore mine, have made Various problems caused by the presence of groundwater in Area No1 mining experts seek appropriate methods for preventing the flow of groundwater into the mine pit. Due to the expected of this mine, a suitable drainage system negative influence of subsurface water on the mining activities in Area No<sup>۳</sup> should be designed and established before commencement of mining activities. Geoelectrical investigations using resistivity method were carried out in the area to determine groundwater conditions in the area. Twenty five resistivity soundings with maximum electrode spacing of 1400m were performed in the area A square grid of 500\*500m was set up to cover the whole area. One-dimensional interpretation of the sounding data showed the depth to water table to be 40-60 m with an average thickness of 26-35m for the water-bearing formation. It was also inferred from the sounding data interpretations that the resistivity of the water-bearing formation was in the range of 12-26Ωm indicating high electrical conductivity of groundwater, interpreted to be due to high salinity and concentration of total dissolved solids (TDS) in the groundwater.dggg

## کلمات کلیدی:

Gol-e-Gohar iron ore mine ,<sup>۳</sup> groundwater, resistivity sounding, Anomaly No

## لینک ثابت مقاله در پایگاه سیویلیکا:

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