

impresión general es que probablemente este sector esté en sobreexplotación. Las determinaciones analíticas indican mejores calidades que en el dominio S. siendo en su totalidad aptas (con gran probabilidad) para consumo humano. Los caudales de explotación se sitúan entre 10 y 200 l/s, siendo su valor medio aproximadamente de 20 l/s.

Palabras clave: hidrogeología, acuífero, piezometría, conductividad eléctrica, sobreexplotación.

SUMMARY

These are the most important results of the personal hydrogeological research that was made near the town of Caudete. Since 1998 to 1999, different measures of piezometric levels about temperature and electric conductivity in water were made in several places inventoried and chemical analysis of selected places completed with meteorological and geological facts and uses of water, with bibliography and direct measures.

From these facts we show diagrams of the evolution of the most significant places and we made the respective piezometrical level map.

The conclusions show two main zones to differ between lands placed in a line SW-NE just to N of Caudete and lands placed to S of the town, extended to the S to Villena town: The aquifer Caudete -Villena.

The measures of the piezometric levels show, on the S, some aquifers where the pumping exceeded the average, at a less deep level between two neighboring aquifers overexploited too, Jumilla-Villena and Yecla-Villena -Benejama, where there are a lot of exhausted extractions in the last 20 years. The analytic indications prove that the quality of the water is good for the human consumption. The flows are never more than 30 l/s with a average value between 10 and 20 l/s.

On the N, where there are more extractions, the piezometric levels have changed in different ways according to the place. These levels are good, because although there are very important declines in the level of water when the extraction is taking place, they are recuperated after that. The analytic indications prove more quality than the south area, and all water is drinkable. The flows of exploitation are between 10 and 200 l/s, with an average value of about 20 l/s.

Key words: hydrogeology, aquifer, piezometry, electric transport, overexploitation.