

## عنوان مقاله:

OPTIMIZATION OF WELL PRODUCTION THROUGH DETERMINATION OF THE PRODUCIBLE INTERVALS AT THE WELL SITE USING STONELEY WAVE IN THE KHAMI CARBONATES GROUP, SOUTHERN IRAN

## محل انتشار:

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## خلاصه مقاله:

Identification and evaluation of producible zones is of major importance to the development of reservoir rocks. The Stoneley wave (or Tube wave) has been explored as a means of permeability estimation and evaluation. Sonic measurements are sensitive to mobility and open fractures. Stoneley waveform from DSI tool provides a direct and continuous fluid mobility estimation near the well bore (i.e., in the invaded zone). The KST curve can provide valuable information both for evaluation and production phases. This study shows that the methodology can be applied with success in carbonates with multiple pore types. The sequence analyzed consists of limestone and dolomite showing different grade of diagenesis. The reservoir shows a high grade of heterogeneity with inconsistent porosity in the reservoir zone. The KST show good agreement with MDT and core analysis. Potential applications of KST are formation evaluation, optimization of well production through better placement of the perforated intervals and planning to maximize hydrocarbon recovery. This technique provides fluid flow measurements before the completion and allows reservoir management to begin at earliest stages of a field's development.

## کلمات کلیدی:

Stoneley wave; DSI; KST; MDT; Mobility

## لینک ثابت مقاله در پایگاه سیویلیکا:

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