عنوان مقاله:

Reservoir Souring Prediction: A Novel Screening Method

محل انتشار:

هشتمین کنفرانس بین المللی شیمی ، مهندسی شیمی و نفت (سال: 1399)

تعداد صفحات اصل مقاله: 5

نویسنده:

Sajad Asiabani - *Petroleum University of Technology, Faculty of Petroleum Engineering, Ahvaz, Iran*

خلاصه مقاله:

Prediction of the onset of reservoir souring, i.e. production of excess hydrogen sulphide, has been a major concern in oil industry during the last decades. Assuming that the principal source of H_2S generation inside the reservoir is the microbial activity, we are able to predict the potential of reservoir souring based on bacterial activity effective parameters. To do so, a collection of physical and nutritional criteria for the bacterial activity was provided. Step-wise comparison of these parameters between the nominated reservoir and basic criteria enables us to evaluate the reservoir souring probability without any complicated simulation work. In the last section, this proposed method is verified using data from previous cases.

کلمات کلیدی:

Souring, Bacteria, Hydrogen Sulphide, Screening

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1197844