

هشتمین همایش ملی انجمن رسوب شناسی ایران



8th Symposium of Sedimentological
Society of Iran / 31 Jan - 1 Feb 2024
University of Hormozgan

۱۱ و ۱۲ بهمن ماه ۱۴۰۲
دانشگاه هرمزگان

چاه	سازند	ضخامت کل m	ضخامت مفید m	ضخامت مفید/کل NET/GROSS	میانگین تخلخل %	میانگین اشباع آب %	میانگین حجم شیل %	میانگین تراوایی md
4	سازند کنگان	178/48	19/97	0/11	4/8	24/4	28	0/02
6	سازند کنگان	174/66	40/23	0/23	4	31/4	32	0/027

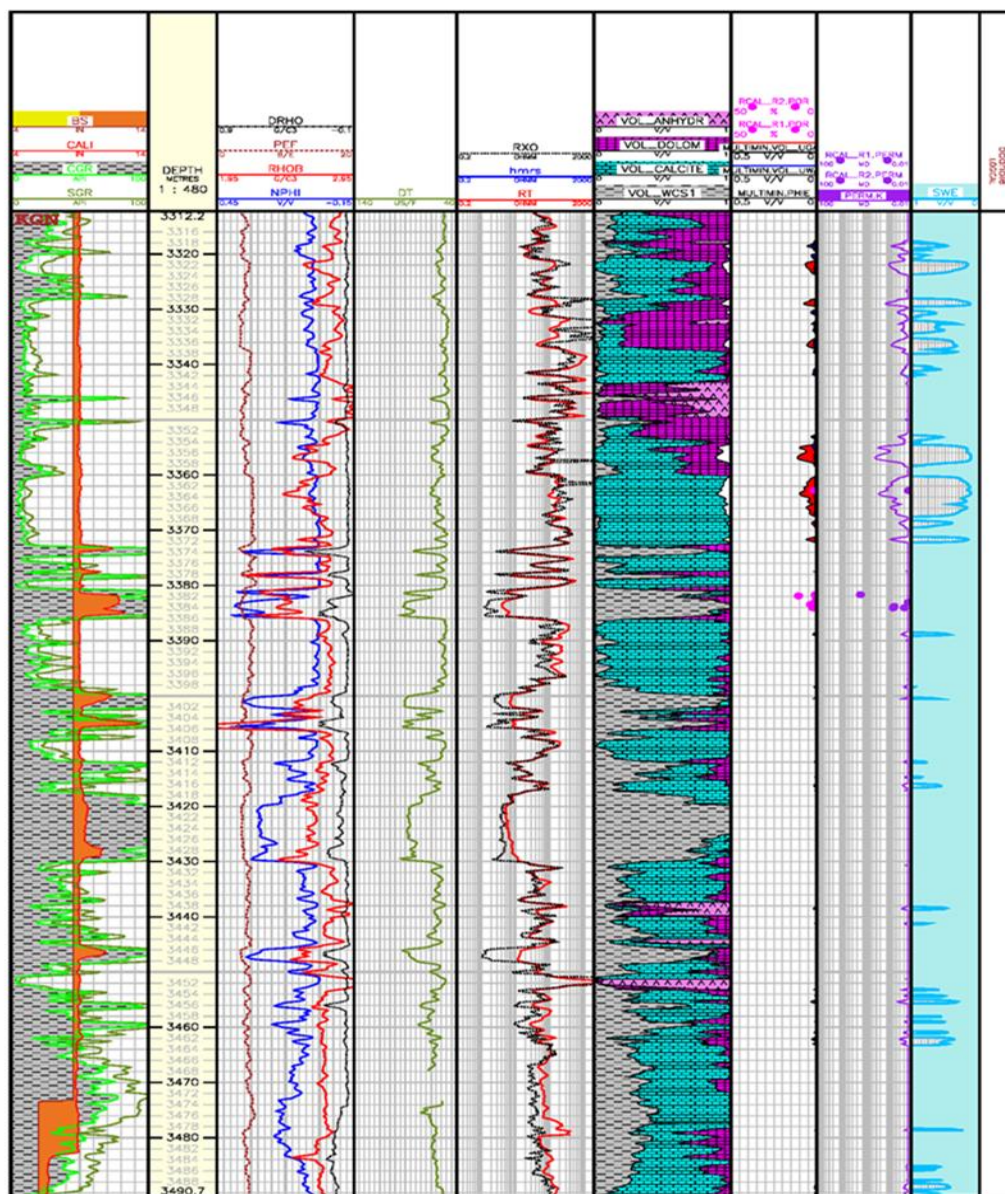
جدول 1: میانگین پارامترهای پتروفیزیکی محاسبه شده در چاه 4 و 6

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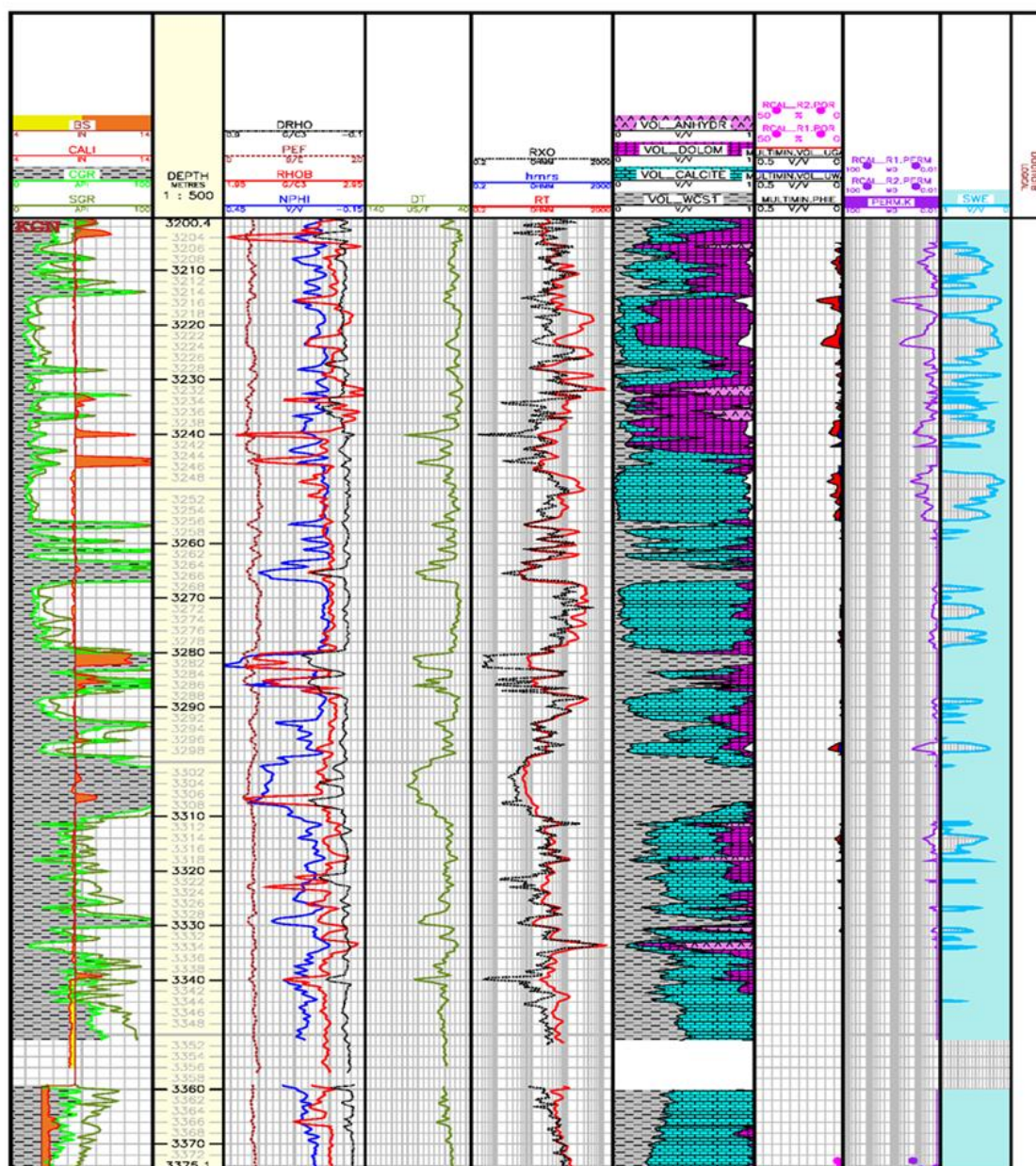
شکل ۱: ارزیابی پتروفیزیکی سازند کنگان در چاه ۴

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شکل ۲: ارزیابی پتروفیزیکی سازند کنگان در چاه ۶

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- Vafaei, H. and Peyravi, M., 2016. Reservoir quality evaluation of the Kangan Formation In one of the Kish gas-field wells by using geology software. Scientific Quarterly Journal of Geosciences, 25(98), pp.29-36.
- Zamani, Z., Lotfpour, M. and Moradpour, M., 2004. Conventional core analysis and reservoir characterization of the Kangan Formation in the “SPG” field, Persian Gulf, SPG# 1 well. Research Institute of Petroleum Industry, Iran. Unpublished Report.

Reservoir Quality Evaluation in Kangan Formation with base of Petrophysical Data in one of the Gas field in Southern Iran

Abstract: Today, reservoir rock evaluation is very important in the oil industry. In this research, using petrophysical data and porosity information, the permeability of the cores, and with the help of the possible evaluation method, the petrophysical parameters of the Kangan Formation were evaluated in two wells 4 and 6. The purpose of the research is to check the quality of the studied gas field and evaluate the reservoir properties using petrophysical studies. Based on the results of this petrophysical evaluation, in the Kangan formation in wells 4 and 6, the average shale volume, respectively 28 and 32 average water saturation respectively 24.4 and 31.4 and the average effective porosity, respectively 4.8 and 4 and NET/GROSS ratio respectively 0.11 and 0.23. The closer the value of this parameter is to 1, the studied formation has more reservoir quality.

Keyword: water saturation, porosity, shale ratio, Kangan Formation, permeability