

应用实例

复电阻率测井在腰英台油田的应用

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摘要 东北工区复电阻率测井能在一定程度上克服地层岩性和地层水矿化度的影响, 直观地反映储层流体性质的变化。因此, 在腰英台油田开展复电阻率测井技术应用研究, 有较强的针对性, 可为在该地区寻找油气增添新的方法技术。复电阻率测井技术主要利用低频电阻率 (R_t) 与高频电阻率 (R_z) 的比值即复电阻率比值A的大小定性区分油水层, 评价该地区储层的含油性。本方法与常规测井解释方法相比具有方便、直接、准确等特点。在实际工作中, 利用复电阻率测井技术解释、分析、评价腰英台油田储层的含油性, 都取得了明显的成效。

关键词

[复电阻率测井](#) [腰英台油田](#); [地层水矿化度](#); [含水饱和度](#)

Application of complex resistivity logging in Yaoyingtai oilfield

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Abstract In Yaoyingtai oilfield, complex resistivity logging is able to alleviate the influence of lithology and formation water salinity to some content, and reveal the variations of fluid properties in reservoirs. Therefore, application of complex resistivity logging in Yaoyingtai oilfield provides new way for oil and gas exploration. Complex resistivity logging technology differentiates qualitatively oil bearing formation from water bearing formation by the ratio of high frequency resistivity (R_t) to low frequency resistivity (R_z). Comparing with conventional logging interpretation, this method is more direct, accurate, and easy to use. Satisfactory results have been achieved by applying the method to Yaoyingtai oilfield.

Key words [complex resistivity well logging](#); [Yaoyingtai oilfield](#); [formation water salinity](#); [water saturation](#)

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