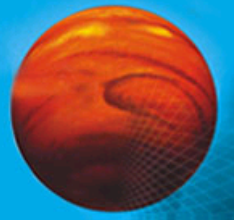




中国自然科学核心期刊

# 石油实验地质

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## 测井精细解释在FMN油田储量挖潜中的应用

吴小林, 刘志霞, 邓辞

(中国石化 江苏油田分公司 地质科学研究院, 江苏 扬州 225009)

## Application of accuracy logging interpretation in FMN oil field reserve evaluation

- 摘要
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**摘要** 苏北盆地FMN油田断块多而小、含油井段长、含油带窄、含油层系多, 在古近系三垛组一段 ( $E_2s^1$ )、戴南组戴二段 ( $E_2d^2$ )、戴一段 ( $E_2d^1$ ) 均发现油层, 物性由  $E_2s^1$ 、 $E_2d^2$ 、 $E_2d^1$  依次变差, 纵向变化较大, 油水关系复杂, 每个含油层系的储层电性存在较大差异。针对目前FMN油田油、水和干层识别的难题, 综合利用岩心、测井、试油、生产等资料, 从储层四性关系研究入手, 结合该油田的储层物性、电性等特征, 有针对性地建立了各层段较精确的油、水、干层的物性、电性识别标准, 并将其运用到实际石油勘探开发生产和储量挖潜中, 效果显著。

**关键词:** 测井精细解释 下限标准 储量挖潜 古近系 FMN油田 苏北盆地

**Abstract:** In the FMN oil fields of the Northern Jiangsu Basin, small fault blocks are in large quantity. The oil-bearing intervals in production wells are very long and the oil zones are narrow. There are many oil-bearing formations. In the 1st section ( $E_2s^1$ ) of the Sanduo Formation as well as the 2nd ( $E_2d^2$ ) and the 1st ( $E_2d^1$ ) sections of the Dainan Formation, oil reserves have been found, and physical properties decrease with obvious vertical variance from  $E_2s^1$ ,  $E_2d^2$  to  $E_2d^1$ . Oil and water relationship is complicated. The electric properties of oil-bearing series are different. In view of the difficulties of oil, water, and dry layers identification in the FMN oil fields, the relationship between reservoir properties has been studied based on the data of core, logging, well-testing and production. Combined with the physical and electric features of reservoir, the physical and electric identification criteria for oil, water and dry layers has been established. The criteria has been applied in exploration and proved effective.

**Keywords:** accuracy logging interpretation, lowest limit criteria, reserve evaluation, Paleogene, FMN oil field, Northern Jiangsu Basin

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作者简介: 吴小林 (1984—), 女, 硕士, 助理工程师, 从事油田储量评价研究工作。E-mail: 81597275@qq.com。

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