

概述

大庆油田注入剖面测井技术研究进展

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摘要 综合阐述了2001年~2006年大庆油田注入剖面测井技术的新进展: 针对传统注入剖面测井技术存在的同位素下沉与沾污及在大孔道地层注失、难以测量注聚井中高黏度流体等问题, 大庆油田开发与应用了示踪测井用新型同位素载体、5参数组合测井仪及综合解释方法、高可靠性脉冲氧活化测井仪、示踪相关流量测井技术, 基本满足了对分层注水井和注聚合物井进行注入剖面测井的需要。分析了当前注入剖面测井技术的适应性和面临的新问题, 指出了二、三类油层聚合物驱分层注入井的注入剖面测井的困难。认为多参数组合测井、综合解释是发展方向。

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Progress of Injection Profiling Technologies in Daqing

Abstract Progresses of injection profile logging technologies in 2001~2006 in Daqing oilfield are summarized: a new radioisotope carrier for tracer logging, five-parameter combo logging tools with integrated interpretation method, reliable impulse oxygen-activation logging tools, and a tracer logging technology with correlation arithmetic had been developed and applied to solve the problems that traditional injection profile logging technologies had, like radioisotope carriers' sinking in water, adhering to injection mandrel and missing at some ultrahigh-porosity formations, or failing to work in viscous fluid in polymer injectors; these technologies basically meet the need of profiling separate-zone water injectors and polymer injectors in Daqing oilfield. Suitability of current technologies for injection profile logging and new problem they are confronted with are analyzed, and the difficulty of profiling a separate-zone polymer injector what has perforations mainly at type II and type III formations is indicated. Multi-parameter combo logging with integrated interpretation is considered as an orientation.

Key words [injection profile logging](#) [radioactive isotope](#) [tracing](#) [activation](#) [combo log](#)

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