

塔河油田缝洞型油藏开发模式及提高采收率

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Development scheme and EOR technique of fracture-vug reservoirs in Tahe oilfield

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摘要

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摘要 塔河油田A区碳酸盐岩溶缝洞型油藏是由多个压力系统和油水关系的缝洞单元在空间上叠合连片形成的复杂油气藏。不同缝洞单元的驱动方式和开发特征差异较大: I类单元主要为水驱; II类单元水驱和弹性驱交替起作用; III类单元以弹性驱为主。根据油藏地质特征,提出了以“缝洞单元为油藏管理的基本单元,实施差异性开发”的开发模式,形成了“以单井注水驱油、多井单元注水开发为主导”的提高采收率技术。现场应用实践表明,该类油藏采收率提高幅度在3.7%以上。

关键词: 缝洞型油藏 碳酸盐岩 开发模式 塔河油田 塔里木盆地

Abstract: The fracture-vug carbonate reservoir of A area in Tahe oilfield is a complex oil reservoir consisting of various spatially superimposed and connected fracture-vug units with multiple pressure systems and complex water-oil contacts. These fracture-vug units differ greatly in driving mechanism and production characteristics. The type- I unit is dominated by water drive, the type- II unit features in alternating water drive and elastic drive, while the type- III unit is predominantly of elastic drive. According to the geological features of the reservoirs, this paper proposes a development scheme, i.e. taking the fracture-vug unit as the basic development blocks and implementing differential development, and presents an EOR method that is single well water injection to drive oil and multi-wells unite water injection for development. An additional recovery efficiency of 3.7% is obtained after field application of this method.

Keywords: fracture-vug reservoir carbonate rock development scheme Tahe oilfield Tarim Basin

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