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潜山内幕油藏裂缝发育段井眼信息响应特征研究

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Research on the Response Characteristics of Wellbore Multi-information in the Fracture Developed Section of the Buried Hill inside Reservoirs

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PDF (PC)

202

摘要/Abstract

**摘要 :**

裂缝发育段是潜山内幕油藏主要储集空间。辽河油田在兴隆台潜山内幕油藏勘探开发实践中,注重挖掘裂缝发育段的井眼信息响应特征以及各种信息间的匹配关系,认识到裂缝发育段在钻井过程中钻井液易漏失,录井显示级别高、气测异常明显、地球化学录井与轻烃录井含油指标突出,测井信息特征明显,且不同信息之间表现出较好的耦合关系,大大提高了裂缝发育段识别的准确性。为投产选择射孔层段、储量计算中有效厚度的合理划分、潜山内幕油藏立体开发模式的建立提供了可靠的地质基础。有效指导了辽河油田潜山内幕油藏的勘探开发工作,实现了兴隆台潜山亿吨级规模储量的快速探明和百万吨年产能快速建成,以及油藏的有效开发、高效开发。

**关键词:** 潜山内幕油藏, 裂缝发育段, 井眼信息, 响应特征, 裂缝预测, 兴隆台潜山, 辽河油田

**Abstract:**

The fracture developed sections are the dominant storage spaces for the buried hill inside reservoirs. In the exploration process of Xinglongtai buried hill inside reservoir in the Liaohe Oilfield, great attention has been paid in order to find out the correlation between the well bore information response characteristics and various information in the fracture developed section. It has been found out that in the fracture developed section, the drilling fluid tends to lose during the drilling process, the logging presentation gets higher, gas logging data gets unusual, the geochemical logging and light hydrocarbon logging data show that the oil saturation gets higher, logging information has obvious characteristics, and various data are well correlated. So the reliability of the recognition and prediction is greatly improved in fractured developed sections. It has built a reliable geological basis for perforation interval optimization, the rational classification of effective thickness in reserve calculation and the establishment of dimensional model of development in buried hill inside reservoir. The method has effectively guided the exploration and development practices of buried hill inside reservoirs in the Liaohe Oilfield. By using this method, we have defined OOIP of hundreds million tons in the Xinglongtai Buried Hill, and an annual million ton production capacity has been established efficiently, so the effective development of the reservoir is achieved.

**Key words:** Buried hill inside reservoir, Fracture developed section, Wellbore multi information, Response characteristics, Fracture prediction, Xinglongtai buried hill, Liaohe Oilfield

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TE33

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