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盖层断接厚度封气下限及其对天然气分布的控制——以松辽盆地徐家围子断陷为例

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Gas Sealing Limit of Faulted Thickness of Caprock and Its Controlling Effect on Gas Distribution : An Example from Xujiaweizi Depression of Songliao Basin

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摘要/Abstract

摘要 :

在输导断裂和盖层发育及分布特征研究基础上,采用二者空间匹配及其与天然气分布之间关系分析的研究方法,对徐家围子断陷盖层断接厚度封气下限及其对天然气分布的控制作用进行了研究。结果表明:徐家围子断陷营一段顶火山岩盖层被断裂破坏程度高,分布连续性差,断接厚度封气下限约为2m。而登二段泥岩盖层被断裂破坏程度低,分布连续性好,断接厚度封气下限约为67m。它们对天然气分布的控制作用主要表现在3个方面:①封闭区天然气仅在盖层之下分布,主要表现在徐中断裂中南部、徐东断裂中南部和徐西断裂北端;②不封闭区天然气在盖层上下分布,主要表现在徐中断裂北部、徐西断裂南端中部和南部;③封闭区内天然气较不封闭区天然气富集。

关键词: 盖层, 断接厚度, 封气下限, 天然气分布, 控制作用

Abstract:

Based on the study of development and distribution characteristics of transporting faults and caprocks, gas sealing limit of faulted thickness of caprocks and its controlling effect on gas distribution were studied through the analysis of the relationship between the space matching between fault and caprock and the gas distribution. The result indicates that the volcanic caprock in the top of K₁yc₁ was destroyed by transporting fault seriously and has bad distribution continuity. Its gas sealing limit of the faulted thickness is about 2m. Destruction level of transporting fault on the mudstone caprock of K₁d₂ is low, and its distribution continuity is good. The gas sealing limit of faulted thickness is about 67m. Controlling effect of gas sealing limit of faulted thickness of the two caprocks on the gas distribution in Xujiaweizi depression is shown in following three aspects: (1) Gas only distributes under caprock in sealed areas. The gas mainly distributes in the middle and south of Xuzhong fault, the middle and south of Xudong fault and the north of Xuxi fault. (2) Gas distributes over and under caprock in unsealed areas. These gases mainly distribute in the north of Xuzhong fault and the middle and north of the south of Xuxi fault. (3) Gas accumulation in sealed areas is more abundant than that in unsealed areas.

Key words: Caprock, Faulted thickness, Gas sealing limit, Gas distribution, Controlling

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