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南盘江盆地油气成藏过程及天然气勘探前景分析 [点此下载全文](#)

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摘要:

本文采用多种研究手段探讨了南盘江盆地的多期成藏、破坏过程。根据有机质成油、成气和油成气的化学动力学模型, 计算了南盘江盆地主要烃源岩的油气演化过程; 并通过对沥青充填期次、包裹体研究和胶结物期次与沥青的关系, 研究了古油藏经历的多期次充注、破坏过程, 据此初步建立了南盘江盆地古油藏演化模式。从南盘江盆地古油藏演化过程来看, 南盘江盆地油气勘探应以原油裂解的天然气为主, 但是由于该地区具有聚气早、破坏时间长的特征, 尤其是三叠系沉积之后的巨厚剥蚀使原油裂解气保存的可能性变小, 因此在该地区形成大中型天然气藏的难度很大, 天然气勘探前景需要进一步研究。

关键词: [沥青期次](#) [包裹体](#) [成藏模式](#) [天然气勘探](#) [南盘江盆地](#)

Oil and Gas Accumulation and Gas Exploration Potential in the Nanpanjiang Basin, China [Download Fulltext](#)

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Abstract:

The accumulation and destruction of hydrocarbon reservoirs is discussed in the paper. Based on chemical kinetics model of oil generation by organic matter, gas generation by organic and gas cracked by oil, hydrocarbon generation and evolution of main source rock in the Nanpanjiang basin was calculated. According to bitumen filling periods, inclusion enclave analysis and relationship between bitumen and cementing matter in different generations, the multi-stage process of oil reservoir formation and destruction were studied. From the oil reservoir evolution, it is concluded that oil-cracked gas is the main hydrocarbon in future exploration of the Nanpanjiang Basin. But, it is very difficult for middle-large gas pool to form and the gas potential needs detailed study in this basin, because of gas accumulation in a very early period and gas destruction through a much long geological time, particularly, much less possibility of oil-cracked gas preservation due to hugely thick degradation after Triassic deposition.

Keywords: [bitumen with different periods](#) [inclusion enclave](#) [hydrocarbon accumulation pattern](#) [gas exploration](#) [Nanpanjiang Basin](#)

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