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流体沸腾机制探讨及在石油地质中的可能性——来自合成流体包裹体的证据 [点此下载全文](#)

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摘要:

本文通过对流体包裹体的合成实验研究,探讨了流体沸腾机制及在石油地质中的可能性。研究表明,流体沸腾作用的发生,主要跟降压或降温降压作用以后流体落入一定盐度流体气相线与TP(H₂O)-CP(H₂O)-CP(NaCl-H₂O)曲线的下方L V或L V H(石盐)相图区的温度与压力范围内有关。由于深大断裂的存在,可能使部分油气流体发生间歇性的沸腾作用,这对于加速油气运移、提高油气成熟度和促进天然气藏的形成可能具有十分重要的意义。

关键词: [合成流体包裹体](#) [流体沸腾包裹体](#) [降温降压](#)

Boiling Mechanism of Fluid and Its Possibility in Petroleum Geology -Evidences from Synthetic Fluid Inclusions [Download Fulltext](#)

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Abstract:

Boiling mechanism of fluid and the possibility of its occurrence in petroleum geology were discussed by studying on synthetic fluid inclusion. The results showed that the occurrences of boiling fluid was mainly in relation to the position of its p-T locus in p-T phase diagram of NaCl-H₂O system, where it was located in L V or L V H zone below the TP(H₂O)-CP(H₂O)-CP(NaCl-H₂O) curve and vapor curve of fluid with a certain salinity. Because of the occurrence of deep fault, it was possible that boiling of some oil-gas fluid and NaCl-H₂O solution intermittently occurred. This was very beneficial to raising the migration velocity and the maturity of oil-gas fluid and forming natural gas accumulations.

Keywords: [synthetic fluid inclusion](#) [boiling fluid inclusion](#) [falling of temperature and relief of pressure](#)

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