

DISTRIBUTION OF SOME BIOMARKERS IN DIAGENETIC STAGES

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Abstract

Immature oil has been found in a number of Tertiary basins in China. The authors studied the core profiles of the Dongpu Depression in Henan Province and made thermo-degradation experiment on immature source rocks. It is found that after hopenes, $\beta\beta$ -hopanes and rearrangement sterenes disappeared successively with the increase of buried depth, the configuration of homo-hopanes came to reach equilibrium. Thermal simulation experiment has proved that lower matured crude oil might be generated from some kinds of source rocks during diagenetic stage. The tricyclic terpanes generated in this stage had the tendency to concentrate in crude oil. The abundance ratio of lower-molecular-weight tricyclic terpanes to higher ones can be used to subdivide diagenesis.

地矿部石油地质海洋地质局成立化探中心

为加强石油化探工作,地质矿产部石油地质综合大队101分队(合肥),最近更名为地矿部石油地质海洋地质局化探中心,并自七月一日起全面承办对内对外的各项有关业务。

该中心的前身101队,创建于1964年,二十多年来,坚持科研与生产相结合,大力引进先进技术和方法,在全国各主要含油气盆地进行了大量工作,为各地区含油气评价作出了可贵的贡献。现在,该中心不但掌握了气体分析、沥青分析和水化学分析的一整套传统方法技术,而且也掌握了 Δ 碳法、碳同位素法和激光光法等多种先进方法技术,可在各种复杂条件下开展野外作业,利用综合指标,迅速准确地圈定化探异常。历年有多项成果获部级和省级优秀科技成果奖,一大批青年化探工作者正在茁壮成长。

(党仁寿)