

## 海拉尔盆地乌东斜坡带优质烃源岩识别及油气运聚特征再认识

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## High-quality hydrocarbon source rock identification and hydrocarbon migration and accumulation characteristics in the Wudong slope zone of the Hailer Basin

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**摘要** 利用测井资料纵向分辨率高的特点,采用 $\Delta I g R$ 法识别海拉尔盆地乌东斜坡带优质烃源岩,探讨其与油气成藏的关系。研究表明,在乌东油藏附近测井识别出的优质烃源岩,呈条带状分布于乌东斜坡带的乌31至乌108-112井区。该区块附近的原油可划分两类,第一类原油与乌东油藏下倾方向乌南次洼的优质烃源岩具有较好的亲缘关系,均具有 $T_s$ 大于 $T_m$ 、低伽马蜡烷的明显特征;第二类原油与乌东斜坡带发育的优质烃源岩具有较好的亲缘关系,均具有 $T_s$ 小于 $T_m$ 、高伽马蜡烷的明显特征。重新分析油源认为,以乌东油藏内部两条大断裂为界,油藏下倾方向油气来自乌南次洼,以构造岩性油气藏为主;油藏上倾方向油气来自乌东斜坡带本地优质烃源岩,以断层岩性油气藏为主;油藏断裂带内部油气由乌南次洼及乌东斜坡带两个生烃中心供烃,以断块油气藏为主。油源对比结果扩展了乌东斜坡带的勘探思路,优质烃源岩的发育与分布规律应给予高度重视。

**关键词:** 优质烃源岩 油-源对比 油气运聚模式 乌东斜坡带 海拉尔盆地

**Abstract:** Based on high vertical resolution of well logging data, we used  $\Delta I g R$  method to identify the high-quality hydrocarbon source rocks in Wudong slope zone of Hailer Basin and explored its relationship with hydrocarbon accumulation. Research showed that the high-quality hydrocarbon source rocks identified by logging in the vicinity of Wudong reservoir occur in striped shape in the area from Wu 31 to Wu 108-112 wellblocks in Wu-dong slope zone. The crude oil in this area can be divided into two types. The first type of crude oil correlate well with the high quality source rocks in Wunan subsag in the down dip direction of Wudong reservoir, as they all show obvious characteristics of  $T_s > T_m$  and low gammacerane. The second type of crude oil correlate well with the high quality source rocks in Wudong slope zone as they all obviously featured in  $T_s$

**Keywords:** high-quality source rock oil-source correlation hydrocarbon migration and accumulation mode Wudong slope zone Hailer Basin

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