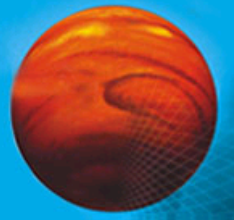




中国自然科学核心期刊

# 石油实验地质

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## 渤海湾盆地潜山油气藏勘探潜力与方向

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### Prospecting potential and targets of buried-hill oil and gas reservoirs in Bohai Bay Basin

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**摘要** 渤海湾盆地潜山勘探历经40余年,通过勘探历程与发现规律分析认为,以10年为一个阶段,潜山勘探经历了规模发现阶段、勘探低迷阶段、缓慢发现阶段,目前正处于新的勘探阶段。深层资源研究证实油气资源丰富,潜山勘探具有坚实的资源基础。潜山勘探现状分析表明,潜山类型、潜山勘探层系、勘探深度、不同勘探区域勘探程度等方面存在不均衡现象,并在不均衡中孕育着巨大的勘探潜力。辽河坳陷兴隆台潜山与冀中坳陷牛东深潜山的勘探表明,深层变质岩和碳酸盐岩储层具有较好的储集性能,未来潜山勘探深度将不断加深,4000 m以下将成为勘探的热点;潜山类型将由以风化壳型为主向潜山内幕型转变,凹中、凹边隆起(凸起)是内幕潜山勘探的重点;潜山勘探发现具有明显的坳陷接替式,黄骅坳陷、辽河坳陷的滩海以及以往受认识局限制约的低勘探程度区将成为勘探重点。通过勘探程度等条件分析,大兴—固安、曙北—牛心屯、长芦、王官屯—乌马营、燕南、笔架岭、海月等26个潜山带勘探潜力较大。随着工艺技术的进步与成藏认识的提升,潜山勘探必将形成一轮新的规模发现。

**关键词:** 潜山油气藏 勘探阶段 勘探潜力 渤海湾盆地

**Abstract:** The buried hills in the Bohai Bay Basin have experienced over 40 years' exploration. And based on its exploration course and rules, the buried hill exploration is divided into four stages by ten years, including scale discovery stage, downturn stage, slow discovery stage and new stage. It is indicated from deep resource study that hydrocarbon resource is abundant and buried hill exploration is based on ample resource. It is shown from current situations that buried hill exploration is unbalanced in types, exploration series of strata, depth and degrees, which provides immense prospecting potential. From the exploration practices in Archaean metamorphic rock buried hill in Xinglongtai of the Liaohe Depression and in Wumishan deep buried hill in Niudong of the Jizhong Depression, buried hill exploration will be subsequently conducted in the deeper reservoirs and those below 4 000 m will be the hot spots of exploration. The principal type of buried hills varies from weathering crust to internal buried hill. Central sags and swells are the focused exploration targets of internal buried hills. And the exploration presents obvious depression replacement. Attentions are paid on the beaches in the Huanghua Depression and the Liaohe Depression and those areas with low exploration degree. In terms of exploration degree, 26 buried-hill zones present higher exploration potential, including Daxing-Gu'an, Shubei-Niuxintuo, Changlu, Wangguantun-Wumaying, Yannan, Bijialing, Haiyue and so on. New discoveries will be surely realized in the exploration of buried hills.

**Keywords:** buried hill oil-and-gas reservoirs, exploration stage, prospecting potential, Baohai Bay Basin

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