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中国未开发天然气储量分析和对策

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Analysis and Strategy of Undeveloped Natural Gas in China

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摘要/Abstract

摘要 :

探明而未开发天然气储量数量大且随时间日趋增加的现象长期存在,是中国天然气勘探开发的特点之一。分析其发展过程和在不同盆地的分布是提高储量动用率和保障产量持续增长的必要前提。2013年全国未开发的天然气地质储量约为 $5.62 \times 10^{12} \text{m}^3$,未开发率为42.3%|未开发的可采储量为 $0.535 4 \times 10^{12} \text{m}^3$,未开发率为23.7%。在分别做了未开发储量的盆地分布和公司分布以及不同类型油气田未开发储量分析后,提出了以新思维、新技术动用未开发天然气储量的3条认识:①未开发储量是现实的增产领域|②重新认识探明储量的现状和动态|③适宜技术的应用是关键。在后者中包括:必须强调每块未开发储量的特殊性、进行新一轮的精细地震工作、适度引入致密储层油气的钻井和储层改造技术、以先进方式开发中小气(油气)田群、重视溶解气的开发等问题。最后提出,三大油气公司在近、中期的全方位发展中要集中力量为天然气增产做出更大贡献,因而可适当缩小已占有勘探区块面积,集中力量在已开发的气(油气)田上提高采收率,大力动用未开发储量,以取得更高的资金回报率和整体经济效益。

关键词: 未开发储量, 未开发率, 重点含气盆地, 气层气, 溶解气, 中小气田

Abstract:

Long-standing and increasing undeveloped natural gas reserve is one of the characteristics in exploration and production of natural gas in China. Analysis on its development process and its distribution in different basins is a necessary precondition for increasing reserve producing rate and keeping enhancement of production. Undeveloped geological reserve of natural gas in China in 2013 was about 5.62 trillion cubic meters with its undeveloped rate of 42.3%, while undeveloped recoverable reserve is 0.535 4 trillion cubic meters with its undeveloped rate of 23.7%. According to the analysis of the distribution of basins and companies of undeveloped reserves and different oilfields, some issues are raised under the condition of new ideas and technologies: (1) undeveloped reserves are the realistic regions for enhancement; (2) insight into present situation and dynamic state of proved reserves; (3) the key is the application of proper technologies. Issues, including specialty of each undeveloped reserve, new round deliberate seismic work, moderate lead-in of drilling and reservoir reconstruction, advanced methods in developing middle-small gas fields and more attention on development of dissolved gas, should be emphasized. Three national oil companies should concentrate on making contribution to natural gas production enhancement, narrowing block area, enhancing recovery so as to achieve return on capital and economic benefits.

Key words: Undeveloped reserves, Undeveloped rate, Major gas-bearing basin, Gas-bed gas, Dissolved gas, Middle-small gas fields

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