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集输工程

苏里格气田南区块天然气集输工艺技术

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摘要:

鄂尔多斯盆地苏里格气田南区块单井控制储量小、稳产期短、非均质性强,属于典型的低渗透致密岩性气藏。针对该区块的地质特征和特殊的开发方式(采用井间与区块相结合的接替方式开发),采用了以下天然气集输工艺:①井下节流、井丛集中注醇的天然气水合物抑制工艺;②管道不保温;③中压集气;④井口带液连续计量;⑤常温分离;⑥两次增压;⑦气液分输;⑧集中处理。形成了"中压集气、井口双截断保护、气井移动计量测试、气液分输、湿气交接计量"等一系列工艺技术,有效降低了地面工程的投资成本,提高了气田开发项目的经济效益,对类似气田的开发建设具有借鉴意义。

关键词: 苏里格气田南区块 天然气集输 工艺技术 中压集气 井口双截断保护 气液分输 湿气交接计量

Application of natural gas gathering and transmission technology in the southern block of the Sulige Gas Field

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Abstract:

The southern block of the Sulige Gas Field, Ordos Basin, characterized by small single—well controlled reserves, short steady—production period, and strong heterogeneity, is a typical low—permeability and tight lithological gas field. Due to its specific geological characteristics, a peculiar development mode of this block was performed: the alternative development between wells integrated with the block. Based on this, the following techniques have been adopted as the gathering and transmission technology: the natural gas hydrate inhibition by downhole throttling and cluster—well methanol injection; pipes without heat preservation; gas gathering under medium pressure; continuous metering with fluids at the wellhead; gas—liquid separation under normal temperature; pressurization twice; gas and liquid transported separately; and the centralized treatment. Thus, a series of techniques are formed as gas gathering under medium pressure, dual—block valve protection at wellhead, mobile metering and test at gas wells, gas—liquid separate transportation, and wet gas custody transfer metering, which not only reduces the cost in the investment of ground surface engineering, but improves the economic profit of a gas field development project. This study provides reference for the development and construction of similar gas fields.

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