



气藏采气速度与稳产期定量关系研究

GUO Chunqiu, LI Fangming, LIU Henian, XIA Zhaohui, LIU Xiongwei, FAN Hailiang, LIU Lingli

1. PetroChina Exploration and Development Research Institute, Beijing 100083, China;
2. Sinopec Northwest Branch Company, Kuche 842017, China

Gas offtake (the gas recovery per year) and production plateau duration (the period of stabilized production) are the two important development indexes. A method was proposed for calculating the plateau duration corresponding to gas offtake of a constant volume gas reservoir using the deliverability equation and material balance equation. The reservoir simulation proved the calculation result was reliable. It means that the proposed method is available. It is proved theoretically that gas offtake is in linear relationship with $(1-R_{psp})$. Here, R_{psp} is the recovery percent at the end of production plateau. The quantitative relationship can be used to calculate the production plateau duration and gas production rate of declination period.

1. 中国石油勘探开发研究院, 北京, 100083; #br# 2. 中国石化西北油田分公司, 新疆库车, 842017

1. PetroChina Exploration and Development Research Institute, Beijing 100083, China;
2. Sinopec Northwest Branch Company, Kuche 842017, China

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