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孔隙压力成因测井反演方法研究—以Y井为例

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Logging Inversion Method Research of Pore Pressure Causes:A Case Study of Well Y

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PDF (PC)

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摘要/Abstract

摘要 :

异常孔隙压力成因复杂,不同成因的孔隙压力计算所采用的方法也不尽相同,在实际生产应用中若未充分考虑压力成因会导致严重的错误。依据研究区异常压力成因,选用Bowers法对大港油田Y井进行了处理分析,发现实际的MDT测试压力与Bowers法计算的孔隙压力不一致,这种情况在国内的孔隙压力研究中并未出现过。针对这一异常,在资料收集和文献调研的基础上分析了异常的原因,找出解决该问题的方法,并利用油田研究成果加以证实,首次为解决这类问题提供了参考,也从另一方面说明考虑成因的孔隙压力计算方法是十分必要且重要的。同时,也为孔隙压力数据反演其成因提供了一种思路。

**关键词:** 孔隙压力, Bowers法, 质心效应, 横向迁移

Abstract:

The causes of abnormal pressure are complex and also have different calculation methods.In practical applications,if the cause of abnormal pressure is not been fully aware,it can lead to serious errors.According to the cause of abnormal pressure in the study area,we chose Bowers method to process and analyze well Y in Dagang Oilfield and then found that the actual MDT test pressures were different from that calculated by Bowers method,this abnormal pore pressure has not been reported in the domestic oil fields.For this exception,on basis of the data collection and literature research,we analyze the pressure causes for the first time.We confirm the causes by using field research which is correct.This also shows that considering the causes of pore pressure calculation method is necessary and important on the other hand.Meanwhile,this also provides a train of thought for using pore pressure data to invert causes.

**Key words:** Pore pressure, Bowers method, Centroid effect, Lateral transfer

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