论文

套管阴极保护的一种新计算方法及其应用

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摘要：

胜利油田调查表明，腐蚀导致大量油井套管损坏,于 是在一些油井上采用了阴极保护来防止套管腐蚀，但是面临着如何原位地评价井下阴极保护 水平的问题.用美国腐蚀工程师协会标准中的Schremp等人的方法对胜利油田南8-82井进行 计算的结果大部分偏离实测结果10%以上，最大误差接近20%.在本工作中，我们将已建立的 一种原位计算油井套管井下阴极保护电位分布的新方法应用到南8-82井上，所得计算结果与 实测结果的误差均小于6%，从而证实了这种方法的可行性.

关键词： 油井套管 阴极保护 计算方法

APPLICATION OF A NEW CALCULATION METHOD FOR WELL CASING CATHODIC PROTECTION

Abstract:

An investigation showed corrosion caused a lot of ca sing failures in Shengli Oilfield,so cathodic protection was applied to some oil wells to prevent external casings from corrosion.How to evaluate the downhole c athodic protection levels with no interruption of production was important.When the Schremp's method corresponding to the standard NACE RP0186-94 was used to ca lculate the casing cathodic protection potentials of Well S8-82 in Shengli Oilfi eld,the most calculated results were different from the measured ones by more th an 10%,the maximum difference was near 20%.In this paper,a new calculation metho d was proposed and its application on Well S8-82 was reported,all the difference s between the calculated and measured cathodic protection potentials were less t han 6%,the results confirmed the practicability of the new calculation method.

Keywords: well casing cathodic protection calculation method

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