

### 论文

#### 深井套管阴极保护的计算与分析

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#### 摘要:

对江汉油田3000多米深的王59井套管的阴极保护电位的分布进行了计算, 计算结果与实测结果的相对误差均小于8%。尽管如此, 在阴极保护电流从5 A增大到20 A的情况下, 仍然无法使该井套管的保护电位完全达到最小保护电位的标准。

关键词: 深井 套管 阴极保护 计算

#### CALCULATION AND ANALYSIS OF CATHODIC PROTECTION FOR DEEP WELL CASINGS

JianZhao

#### Abstract:

With the development of oil and gas fields in Western China, both the number and the depth of oil and gas wells increase very rapidly. To understand the performance of cathodic protection of a deep well, a cathodic protection system was applied to a Well W59 in the Jiangnan Oilfield, which has a depth of over 3000 meters. The cathodic potential distribution induced by the impressed current was calculated for the well and compared with the downhole measured potentials. It follows that the differences between the calculated and measured potentials was less than 8%. However, the well casings were not cathodically protected completely though the cathodic currents were changed from 5A to 20A.

Keywords: deep well casing cathodic protection calculation

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