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Meeting Paper

Corrosion Monitoring of Downhole Equipment in Underground Storage Facilities

by

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Spring 1999 Meeting
Las Vegas, Nevada, USA
11-14 April 1999

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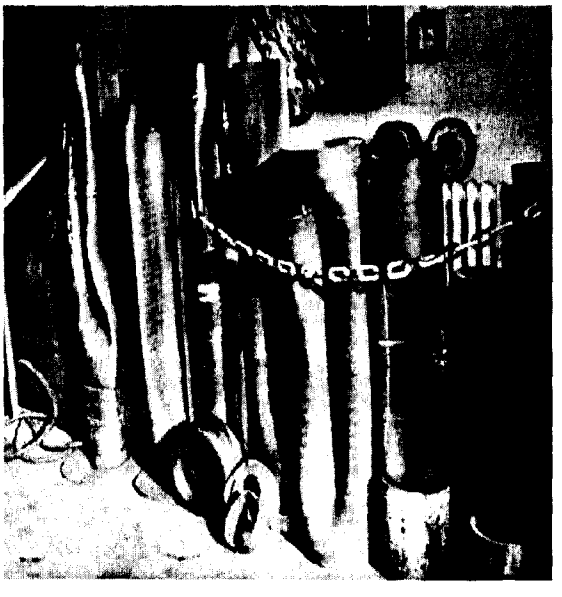
1 Introduction

The oldest storage wells have been in operation for more than 30 years.
The downhole equipment is affected by changes in the pressure regime, the temperature, by changes in the storage medium and damage/irregularities in the operating phase. This can result in the abrasion and corrosion of the downhole equipment and reduction of the safety status (Fig.1). This is why safety evaluations are necessary for the downhole equipment in underground storage facilities.

... why is a safety status necessary?



UGS	SMRI - Spring Meeting 1999 Las Vegas, Nevada, USA	Figure 1

Drawing up a comprehensive set of evaluation criteria and converting them into operating instructions can help to detect critical depths in old tubing and casing strings. UGS has developed such operating instructions in combination with a Corrosion Monitoring system.