Casing self-cooling with a sacrificial layer

Can sacrificial casing mitigate uncontrolled APB?
This case study uses a deepwater well in Indonesia in order to apply the sacrificial casing method to mitigate the uncontrolled APB between the 20? surface casing and 13 5/8? production casing. A 20? 154ppf X-56 section was selected as the sacrificial casing.

How to select a sacrificial casing?
In selecting the sacrificial casing,three main parameters are needed,these are; the reservoir condition,formation characteristic,and wellbore configuration. These parameters are fed to a wellbore thermal simulator/stress analyses software,in order to create the well model with related pressure and temperature conditions.

How can a sacrificial/protective materials approach be used in sintering?
Sacrificial/Protective Materials Approaches Combined with Spark Plasma Sintering In order to efficiently use SPS at temperatures not higher than 900 °C and in one step, the challenge is to manage the thermal and chemical gradients arising from both fast kinetics and a low oxygen partial pressure environment.

What is the sacrificial layer approach?
The use of the sacrificial layer approach was also considered at that time for manufacturing LTCC (low-temperature co-fired ceramic) ceramic MEMS to overcome the collapse of the structures or cavities during hot rolling and/or final firing.

In order to solve the problem of external corrosion of deep well casing in oil and gas fields, a new type of high-temperature-resistant zinc alloy sacrificial anode material was used.

The goal of the project is to develop a sacrificial casing that can protect steel casings in geothermal wells against corrosion and high stresses due to thermal expansion so the structural integrity of the wells is ...

This case study uses a deepwater well in Indonesia in order to apply the sacrificial casing method to mitigate the uncontrolled APB between the 20? surface casing and 13 5/8? production casing.

This thesis project aims to design and optimize a new fastening mechanism for the Sacrificial Casing, a so called slip mechanism. The material selection and geometrical dimensions of the mechanism are ...

Oil well casing cathodic protection technology: There are two types of cathodic protection technology: sacrificial anode cathodic protection and forced current (impressed current) cathodic ...

Sacrificial anode cathodic protection systems are also in some cases less costly to install and maintain than impressed current cathodic protection systems. This is particularly true for systems with small ...

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The simple method presented here involves using a polymethylmethacrylate (PMMA) sacrificial layer between UTCs and the wax and the transfer or removal of UTCs is achieved without ...

Temperature data from a geothermal well in Iceland (HE-61) was used to analyze and compare three different drilling and production scenarios with and without the sacrificial casing in the well.

In this study, the tubular design approach is used to mitigate the annular pressure buildup by utilizing a section of lower grade casing installed on the outer casing (sacrificial casing) that ...

3) Optionally installing a temporary casing if collapsible soil is encountered. 4) Upon reaching the desired depth, removing the drill rig while leaving the API pipe and ...

Here the goal is to highlight the benefits and the large perspectives of using sacrificial/protective layers, with an emphasis on the pros and cons of such a strategy when targeting ...

Transitions between diferent materials and assemblies the enclosure is significant. require thoughtful detailing to avoid premature failure. When those elements join, it is often the con-nection of these ...

[0002] The present invention relates to semiconductor processing and semiconductor processing systems, and more particularly, to a method for forming self-assembled monolayers as sacrificial...

??????????????(MEMS)????????????????????????????????,???????????????? ...

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Abstract This manuscript describes the use of water-soluble polymers for use as sacrificial layers in surface micromachining. Water-soluble polymers have two attractive characteristics for this app...

For chloride-contaminated reinforced concrete (RC) structures, sacrificial anode cathodic protection (SACP) is an effective method to control steel corrosion. However, some adverse ...

After polarization, galvanic anodes tend to self-regulate and the current output at the anode bed will decline while protection is maintained. As a rule of thumb, the amount of current required to polarize ...

If this issue can be addressed, then sacrificial layer technologies offer promising potential to eliminate thermal bonding and thus facilitate the development of ...

A novel casing protection, the Sacrificial Casing, could be used to decrease the maintenance costs of high-temperature geothermal wells, as well as protecting them from corrosion and high loads due to ...

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