

عنوان مقاله:

An Overview of Corrosion problem and solution in Oil and Gas Industry: Midstream

محل انتشار:

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نویسندگان:

Reza Rahimi - Undergraduate student of Petroleum Engineering

,Amir Hossein Ghasemi - Undergraduate student of Petroleum Engineering

,Ali Taheri - Undergraduate student of Petroleum Engineering

خلاصه مقاله:

The aim of this work is to describe and analyze corrosion problems and their solutions in oil, gas, and refining industry. Corrosion phenomena and factors influencing them are discussed. Corrosion methods are illustrated. Corrosion management plays vital role in the solving of corrosion problems. In order to ensure smooth and uninterrupted flow of oil and gas to the end users, it is imperative for the field operators, pipeline engineers, and designers to be corrosion conscious as the lines and their component fittings would undergo material degradations due to corrosion. This paper gives a comprehensive review of corrosion problems during oil and gas production and its mitigation. Corrosion control using chemical inhibition will remain an attractive option due to low cost and ease of application with the film-forming amines type of corrosion inhibitors having the largest share in the oilfield industry. Normally these corrosion inhibitors are considered mixed type that function by suppressing both anodic and cathodic reactions. Corrosion inhibitors can be applied using three main types of treatment methods: batch, squeeze, and continuous. The squeeze treatment method is applicable to upstream sector only, while batch and continuous treatment methods are applicable to all sectors. Each method has advantages and disadvantages and some limitations. The type of method selected will depend on the system being treated, while a combination of methods could be more cost-effective, e.g. applying batch treatment initially followed by continuous treatment

کلمات کلیدی:

Corrosions, midstream corrosion, coating, gas corrosion

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