

بسم الله الرحمن الرحيم





شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

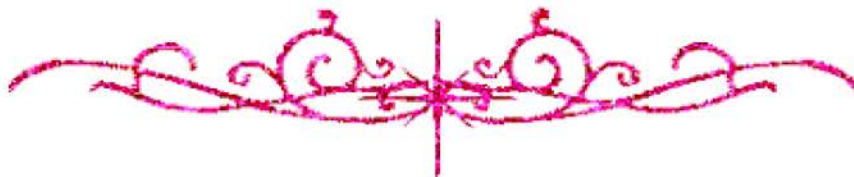
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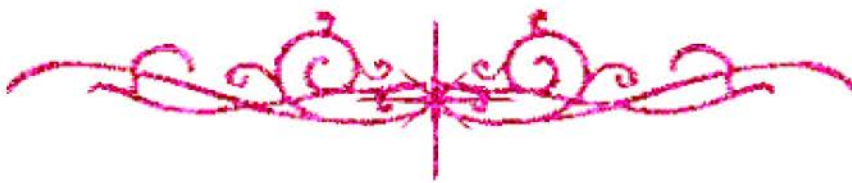
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بالرسالة صفحات
لم ترد بالأصل





Cairo University

Applications of Well Logging Technology in Cement Evaluation for Well Integrity at Thammama Group, Onshore Abu Dhabi

By

Rabie Abdelsamie Ali Alatiar

A Thesis Submitted to the
Faculty of Engineering at Cairo University
in Partial Fulfillment of the
Requirements for the Degree of
MASTER OF SCIENCE
in
Petroleum Engineering

FACULTY OF ENGINEERING, CAIRO UNIVERSITY,
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Title of Thesis:

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Key Words:

Well integrity, Cement evaluation, CBL-VDL, USIT, Thammama Formation

Summary:

Well integrity is crucial safety in oil and gas industry. The objectives of this study involve evaluating well integrity to confirm hydraulic isolation of the production zones using available cement logs for ideal well production with known cement quality and integrity. Also, performing uncertainty assessment to the parameters influencing the studied cement logs and developing a cement grading model to quantify the quality of the cement profile are essential objectives. The results indicated the importance of integrating CBL-VDL with USIT are effective to the grading of cement profile in the oil and gas wells.

DISCLAIMER

I hereby declare that this thesis is my own original work and that no part of it has been submitted for a degree qualification at any other university or institute.

I further declare that I have appropriately acknowledged all sources used and have cited them in the reference section.

Name: Rabie Abdel Samie Alatiar

Date: 10/7/2021

Signature:

DEDICATION

I would like to dedicate this work to my family who supports and encourages me to achieve this work.

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