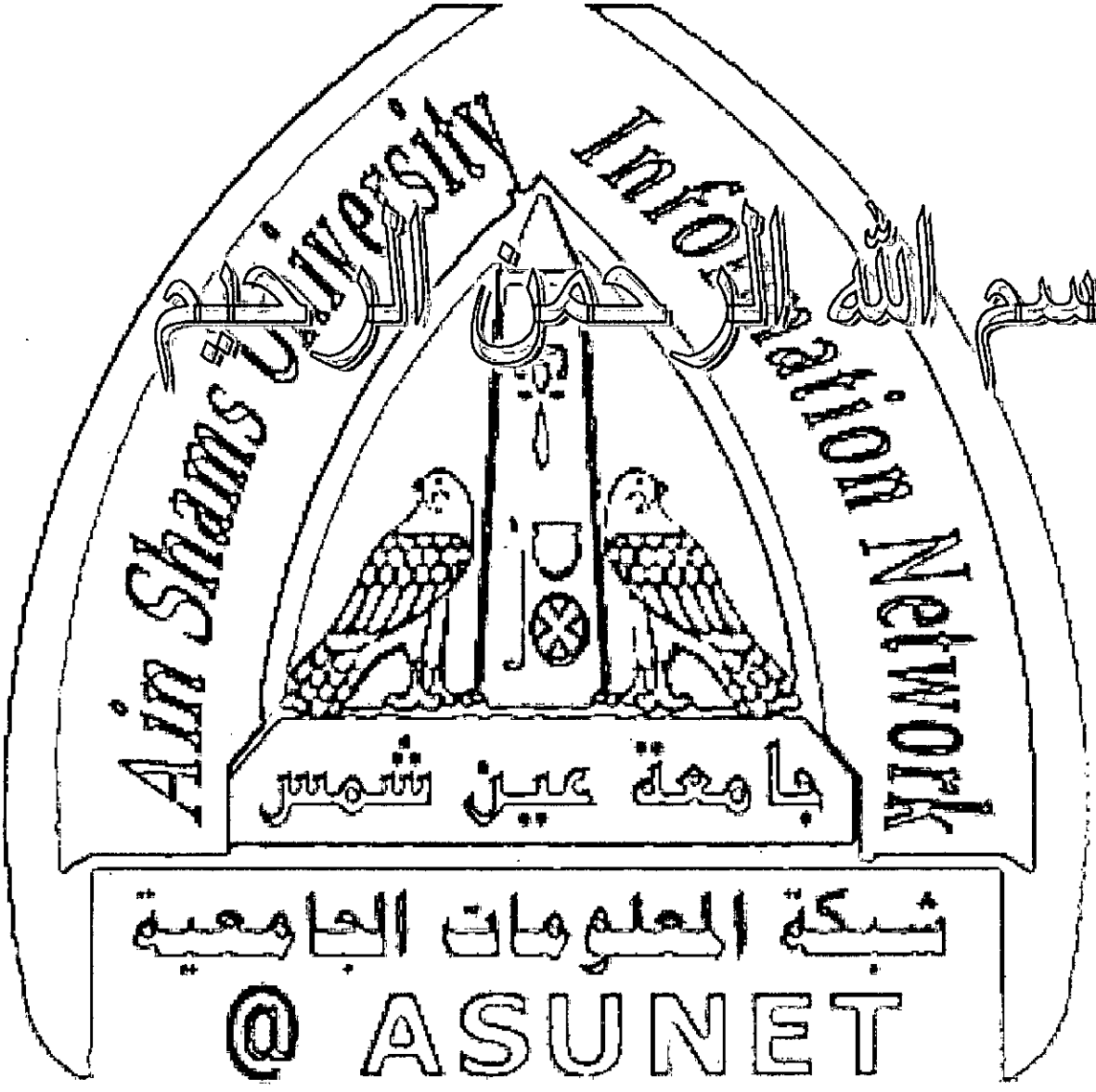
شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات

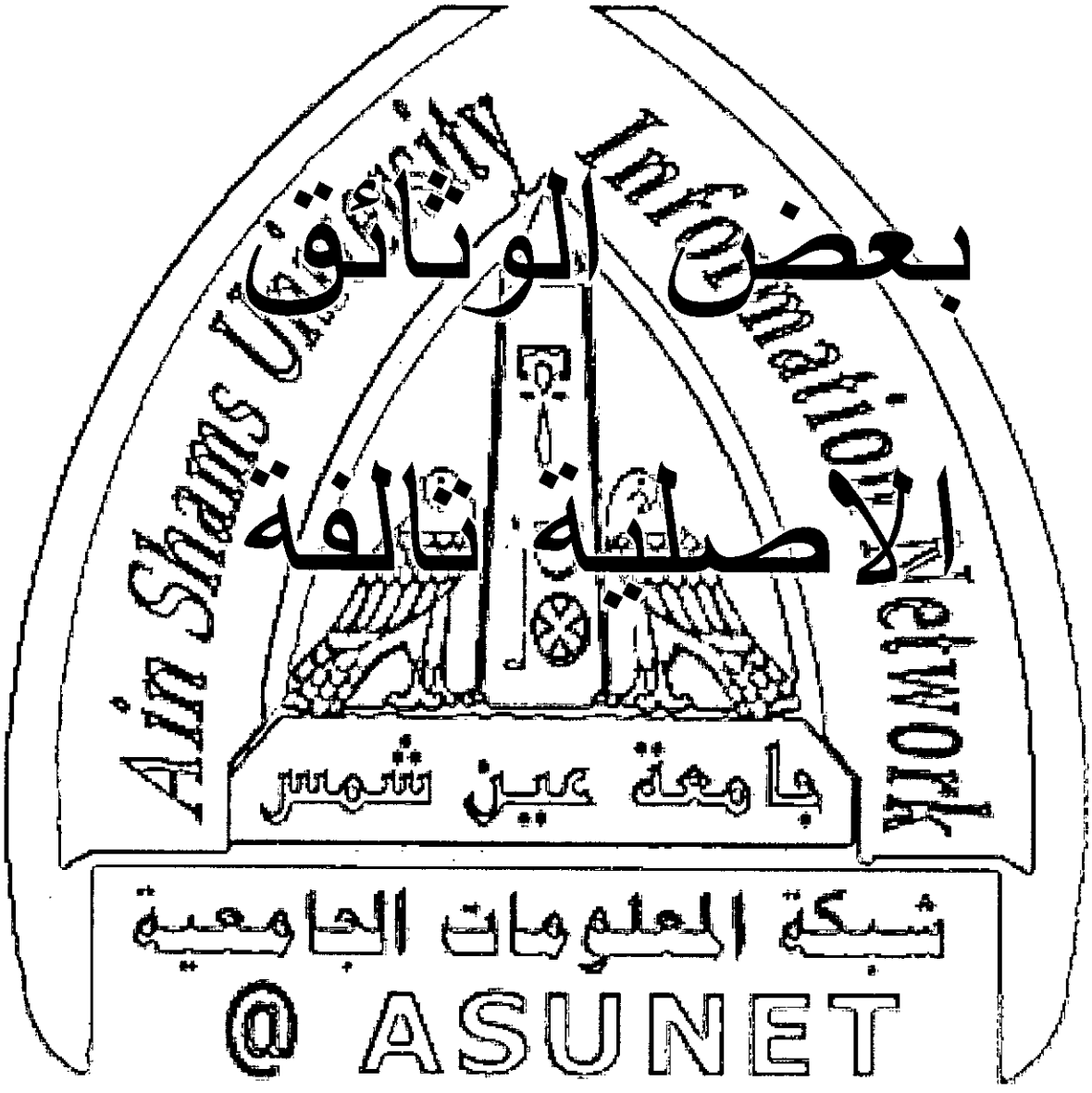
يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار
في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%

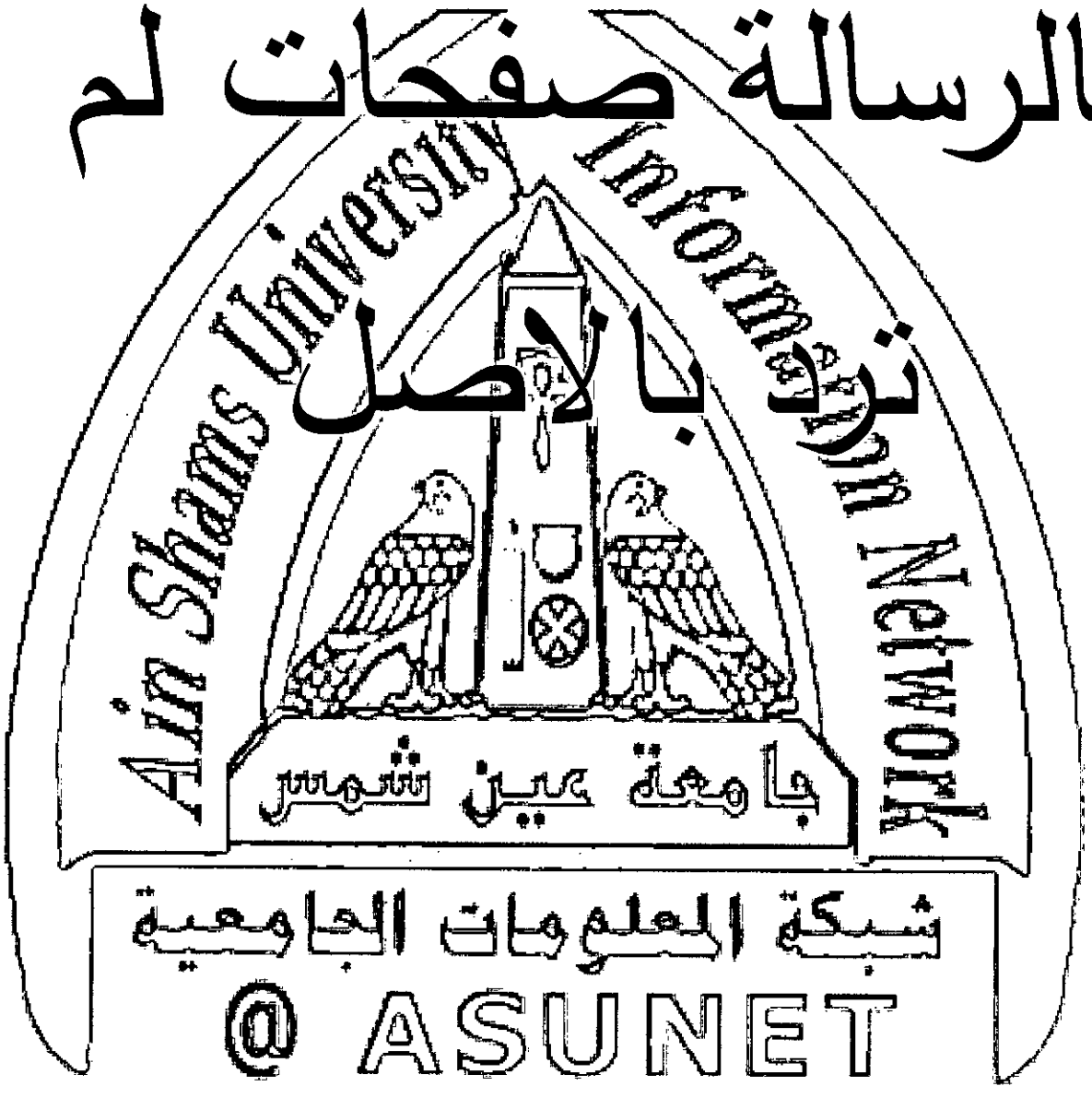
شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم



بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالأصل



SEDIMENTOLOGICAL AND SUBSURFACE STUDIES ON THE MIOCENE SEQUENCE, ZEIT BAY OIL FIELD ,GULF OF SUEZ, EGYPT

BY

AMIRA IMAM KHATTAB OMAR
(B. Sc. in Geology)

A THESIS

SUBMITTED FOR PARTIAL
FULFILMENT OF THE
REQUIREMENT OF MASTER
DEGREE OF SCIENCE

DEPARTMENT OF GEOLOGY
FACULTY OF SCIENCE
AIN SHAMS UNIVERSITY
2001

NOTE

The present thesis is submitted to the Faculty of Science , Ain Shams University in partial fulfilment of the requirements for the Degree of master of science in Geology.

Besides the reseasch work materialized in this thesis , the candidate has attended twelve post – graduate courses for one academic year in the following topics : -

1 – Field Geology .
2 – Geostatistics .
3 – Mineralogy .
4 – Geochemistry .
5 – Igneous Rocks .
6 – Metamorphic Rocks .
7 – Sedimentary Petrology .
8 – Sedimentation .
9 – Advanced Crystallography .
10 – Ore Petrology .
11 – Laboratory Techniques .
12 – English Language.

She has successfully passed the final examination in the courses .

Head of Geology Department

Prof. .Dr . Samir A . Awad

Abstract

The study of this thesis deals with the evaluation of the sedimentological studies and the subsurface geology of the Miocene Sequence of Zeit Bay oil Field. The study is based on the data obtained from seven drilled wells bounded by Latitude 27° 42` and 27° 47` N, Longitude 33° 32` and 33° 37` E.

The stratigraphic succession of Zeit Bay field area ranges from Pre – Cambrian to Recent.

The subsurface geology interpreted is based on the construction of stratigraphic cross sections, structural cross sections, structure contour maps and isopach maps to illustrate the structural elements of the field, and facies changes of different encountered rock units. Microscopic examination of different Miocene rocks is used for discussing their environmental conditions and diagenetic processes affected them.The geologic history of the studied area is also discussed.

Acknowledgement

I would like to express my gratitude to Prof. Dr. Samir A. Awad, Professor of Geology and the Chairman of Geology Department, Faculty of Science, Ain Shams University for his supervision, fruitful discussion and reading of the manuscript.

Deepest gratitude is due to Ass. Prof. Dr. Adel A. EL Bassyouni, Geology Department, Faculty of Science, Ain Shams University for supervising the work and for his cotinuous encouragement, reading, correcting of this manuscript and valuable discussion during the progress of this thesis.

Acknowledgements are due to Dr. Zakaria H. Lotfy, Lecturer, Biological Sciences and Geology Dept., Faculty of Education, Ain Shams University, for his efforts during the microscopic studies, laboratory techniques and works, valuable, discussions and encouragement.

I would like to express my deepest thanks to all the staff of the Geology Dept., Faculty of Education, Ain Shams University for providing all help during this thesis

Finally, I am grateful to EGPC and the exploration staff of Suco Petroleum Company, Mr. Abd El-Aziz El-Nagar and Mr. Abd El-Azim Youssef for providing the necessary data required for this work.

Contents

Chapter 4- Sedimentological studies.