PETROPHYSICAL ANALYSIS AND FORMATION EVALUATION OF A WELL OF GAS FIELD

BY

SULMAN FAROOQ

M.Sc Geology
Session 2007-08

FACULTY OF EARTH AND ENVIRONMENTAL SCIENCES BAHRIA UNIVERSITY ISLAMABAD

TABLE OF CONTENTS

CHAPTER-3

METHODOLOGY

CHAPTER-4

CORE DATA AND PRODUCTION TESTING

CHAPTER-5

PETROPHYSICAL INTERPRETATION

DISCUSSION

ABSTRACT

For the hydrocarbon exploration of the study area the petrophysical study has been carried out in well XYZ, in this study we applied various techniques, i.e., mud logging, wireline logging, well testing, core analysis and production testing.

In this study the Pab 1 and Pab 2 are evaluated, which have potential reserves. These two zones of Pab formation were focused for the evaluation purpose. Eight distinct lithological layers are identify through petrophysical analysis.

The Pab formation was cored in XYZ well. The petrographic study identified Ankerite as the predominant cementing material and siderite as the predominant heavy mineral.

The reservoir quality of Pab formation was much better as compared to lower Ranikot in terms of clean sand, water saturation and permeability.