

**PETROPHYSICAL AND PETROGRAPHIC ANALYSIS  
OF DATTA SANDSTONE IN MEYAL-10 WELL,  
WESTERN POTWAR SUB-BASIN, PAKISTAN**

By

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## **DEDICATION**

“I wish to dedicate this work to Holy Prophet Muhammad (Peace be upon him) and his companions who laid the foundations of Modern civilization and paved the way for social, moral, political, economical, cultural and physical revolution”.

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# **ABSTRACT**

The Petrophysical and Petrographic study of Datta sandstone in Meyal -10 POL led to the identification characteristics (porosity and Permeability) and sedimentology (Petrography, Diagenetic changes, aspects of pore development) and to mark the hydrocarbon horizons.

All the studied samples of Datta sandstone are classified as Pure Quartz arenite and lack of stratigraphic significant fossils. The environment of deposition shows that Datta sandstone was deposited in Subtidal Environment.

The Datta sandstone analysis indicates that the Formation are good reservoir horizon with average porosity values from 9% to 14.5%. So, the formation does fall in good reservoir quality in Meyal-10well.

## Table of Contents

DEDICATION.....	2
ACKNOWLEDGMENT.....	3
ABSTRACT.....	4
List of Figures.....	7
Table of Graphs.....	7
List of Tables.....	8
CHAPTER 1.....	<b>Error! Bookmark not defined.</b>
INTRODUCTION.....	<b>Error! Bookmark not defined.</b>
1.1. General Description.....	<b>Error! Bookmark not defined.</b>
1.2 Hydrocarbons.....	<b>Error! Bookmark not defined.</b>
1.3 Location and Accessibility (Meyal Area).....	<b>Error! Bookmark not defined.</b>
1.4 Climate.....	<b>Error! Bookmark not defined.</b>
1.5 Exploration and Development History.....	<b>Error! Bookmark not defined.</b>
1.6 Purpose and Scope of Present Work.....	<b>Error! Bookmark not defined.</b>
1.7 Methodology.....	<b>Error! Bookmark not defined.</b>
CHAPTER 2.....	<b>Error! Bookmark not defined.</b>
REGIONAL TECTONIC SETTINGS.....	<b>Error! Bookmark not defined.</b>
2.1 Stratigraphy of Potwar Sub Basin.....	<b>Error! Bookmark not defined.</b>
CHAPTER 3.....	<b>Error! Bookmark not defined.</b>
PETROGRAPHICAL STUDY.....	<b>Error! Bookmark not defined.</b>
3.1 Introduction.....	<b>Error! Bookmark not defined.</b>
3.2 Methodology.....	<b>Error! Bookmark not defined.</b>
3.3 Sedimentary Environment.....	<b>Error! Bookmark not defined.</b>
3.4 Diagenesis.....	<b>Error! Bookmark not defined.</b>

3.5 Aspects of Pore Space Development .....	<b>Error! Bookmark not defined.</b>
3.6 SAMPLE DESCRIPTION .....	<b>Error! Bookmark not defined.</b>
CHAPTER 4 .....	<b>Error! Bookmark not defined.</b>
PETROPHYSICAL ANALYSIS.....	<b>Error! Bookmark not defined.</b>
4.1 Introduction.....	<b>Error! Bookmark not defined.</b>
4.2 Bore Hole Environment .....	<b>Error! Bookmark not defined.</b>
4.3 Borehole size.....	<b>Error! Bookmark not defined.</b>
4.4 Drilling mud.....	<b>Error! Bookmark not defined.</b>
4.5 Mud cake.....	<b>Error! Bookmark not defined.</b>
4.6 Mud filtrate .....	<b>Error! Bookmark not defined.</b>
4.7 Invasion.....	<b>Error! Bookmark not defined.</b>
4.8 Invasion Profile.....	<b>Error! Bookmark not defined.</b>
4.9 Logging Tools and Classification of Logging Tools ..	<b>Error! Bookmark not defined.</b>
CHAPTER 5 .....	<b>Error! Bookmark not defined.</b>
PETROPHYSICAL INTERPRETATION OF DATTA SANDSTONE IN MEYAL-10 WELL	<b>Error!</b>
<b>Bookmark not defined.</b>	
5.1 Methodology.....	<b>Error! Bookmark not defined.</b>
5.2 Wireline Logs.....	<b>Error! Bookmark not defined.</b>
5.3 Introduction.....	<b>Error! Bookmark not defined.</b>
5.4 Available Data .....	<b>Error! Bookmark not defined.</b>
5.5 Petropysical Evaluation .....	<b>Error! Bookmark not defined.</b>
CONCLUSION.....	<b>Error! Bookmark not defined.</b>
REFERENCES .....	<b>Error! Bookmark not defined.</b>
APPENDICES .....	<b>Error! Bookmark not defined.</b>

## List of Figures

Figure 1.2: Map showing Oil Fields and Prospective Areas of Potwar Basin.....	6
Figure 1.2: Generalized map showing areas of Potwar basin (Peter D.Warwick and Bruce R Wardlaw 2007).....	12
Figure 2.1: Tectonic Sketch map showing the himalaya collision zone and motion of India relative to Asia in cm/year (after Jacob and Quittmaayer 1979) .....	16
Figure 2.2. Generalized map showing Areas of Potwar sub-basin(after Peter D.Warwick and Bruce R.wardlaw 2007) .....	18
Figure 2.3: Generalized Stratigraphy of the Potwar sub-basin (Shah and others 1977).....	<b>Error!</b>
<b>Bookmark not defined.</b>	<b>9</b>
Figure3.1:Sandstone classification scheme after McBride (1964). .....	25
Figure 3.2: The Intergranular texture of porosity was described according to the nomenclature of Schmidt & Mcdonald (1979).The Intergranular texture of porosity was described according to the nomenclature of Schmidt & Mcdonald (1979).....	26
<b>Figure 4.1: Logging Operation (well logging basics by Bakers Hughes)</b>	<b>44</b>
<b>Figure 4.2: Shows Borehole environment.</b>	<b>45</b>

## Table of Graphs

Graph 5.2: Plot showing shale variations with depth. ....	55
Graph 5.3: Plot showing Sonic Porosity variations with depth. ....	57
Graph 5.4: Neutron Porosity variation with depth.....	58
Graph 5.5: Density porosity variations with depth. ....	59
Graph 5.6; Effective Porosity variations with depth.....	60
Graph 5.7: Sw variation with depth. ....	62

Graph 5.8: Sh variations with depth .....63



## **List of Tables**

Table 1.1: Hydrocarbons significance of different rock units in the study area.....	10
Table 2.1: stratigraphy/Formation tops in Meyal-10 well.....	22
Table 3.1: Detaildescription of plates.....	42
Table 5.1: Flow chart of petrophysical analysis.....	52