

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allāh, the Most Gracious, the Most Merciful

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## **ABSTRACT**

The basic objective of the study is to get preliminary understanding and knowledge of the subsurface structures trend and stratigraphy of the cited area. Seismic interpretation eventually resulted in outcomes as time and depth contour maps, which assisted to understand the subsurface structures for further exploration.

Fort Abbas concession is part of Punjab platform which is a gentle eastward monoclonal rise at the central Indus Basin. Seismic lines 921-FABS-01, 921-FABS-04, 921-FABS-05 and 931-FABS-16A shot by OGDCL in year 1993-1994 in Fort Abbas area. The seismic lines under study area are dip and strike lines. Seismic line 931-FABS-16A is a dip line that passes from the well (Fort Abbas-01). Other seismic lines are dip lines. Drilling of Fort Abbas Well No. 1 was carried out to test the hydrocarbon potentials of Kussak and Khewra (Cambrian) and Salt Range Formation of Pre-Cambrian. Two prominent reflectors namely Sakesar and Kussak Formations were marked on the seismic sections on the basis of depth and velocity information of these formations.

Time contour maps of the reflectors were produced using two way time of the reflectors. Average velocities were used to find the depths of the formations for the seismic sections. Based on these seismic maps the structure of the area was interpreted as a gently dipping broad monocline.

# TABLE OF CONTENTS

<b>Contents</b>	<b>Page No</b>
<b>ACKNOWLEDGMENT</b> .....	
.....i	
<b>ABSTRACT</b> .....	
.....ii	
<b>LIST OF</b>	
<b>FIGURES</b> .....	vi
<b>LIST OF</b>	
<b>TABLES</b> .....	viii
<b>CHAPTER 1 INTRODUCTION</b> .....	<b>1</b>
<b>1 INTRODUCTION</b> .....	<b>2</b>
1.1 LOCATION OF STUDY AREA .....	2
1.2 BASE MAP OF STUDY AREA .....	4
1.3 OBJECTIVE OF RESEARCH PROJECT.....	5
<b>CHAPTER 2 REGIONAL GEOLOGICAL SETTING</b> .....	<b>6</b>
2.1 REGIONAL GEOLOGICAL SETTING.....	7
2.2 CENTRAL INDUS BASIN (STUDY AREA) .....	9
2.2.1 INTRODUCTION.....	9
2.2.2 GEOLOGICAL SETUP OF MIDDLE INDUS BASIN.....	9
2.2.2.1 PUNJAB PLATFORM.....	9
2.2.2.1.1 STRUCTURAL MODEL FOR THE FORT ABBAS AREA.....	12
2.2.2.2 SULAIMAN DEPRESSION .....	15
2.2.2.3 SULAIMAN FOLD BELT .....	15
<b>CHAPTER 3 STRATIGRAPHY &amp; PETROLEUM PROSPECTS</b> .....	<b>16</b>
3.1 STRATIGRAPHY OF MIDDLE INDUS BASIN .....	17
3.1.1 REGIONAL STRATIGRAPHY OF BASIN.....	17
3.1.2 STRATIGRAPHY OF FORT ABBAS AREA.....	21
<b>PRECAMBRIAN</b> .....	<b>22</b>
3.1.2.1 SALT RANGE FORMATION .....	22

<b>CAMBRIAN</b> .....	22
3.1.2.2 KHEWRA SANDSTONE .....	22
3.1.2.3 KUSSAK FORMATION.....	23
3.1.2.4 JUTANA FORMATION .....	23
<b>Contents</b>	<b>Page No</b>
3.1.2.5 BAGHANWALA FORMATION .....	23
<b>PERMIAN</b> .....	24
3.1.2.6 TOBRA FORMATION .....	24
3.1.2.7 DANDOT FORMATION.....	24
<b>PALEOCENE</b> .....	25
3.1.2.8 PATALA FORMATION .....	25
<b>EOCENE</b> .....	25
3.1.2.9 NAMMAL FORMATION.....	25
3.1.2.10 SAKESAR FORMATION.....	26
3.1.2.11 SIWALIKS (MIOCENE).....	26
3.2 PETROLEUM PROSPECTS OF THE AREA .....	27
3.2.1 FORT ABBAS WELL-I .....	27
3.2.2 SOURCE ROCKS .....	27
3.2.3 RESERVIOR ROCKS .....	28
3.2.4 CAP ROCKS.....	28
<b>CHAPTER 4 SEISMIC DATA ACQUISITION AND PROCESSING .....</b>	<b>30</b>
4.1 INTRODUCTION .....	31
4.2 SEISMIC DATA ACQUISITION .....	31
4.2.1 TYPES OF SEISMIC DATA.....	34
4.2.1.1 SEISMIC REFRACTION METHOD .....	34
4.2.1.2 SEISMIC REFLECTION METHOD .....	35
4.3 SEISMIC DATA PROCESSING.....	37
4.3.1 OBJECTIVES .....	37
4.3.2 STEPS INVOLVED .....	38
4.3.3 PROCESSING PARAMETERS USED IN AREA.....	39
4.4 DISPLAY PARAMETERS .....	40

4.5	SCALES OF SEISMIC SECTION.....	41
<b>CHAPTER 5 SEISMIC DATA INTERPRETATION.....</b>		<b>42</b>
5.1	INTRODUCTION .....	43
5.1.1	STRUCTURAL ANALYSIS .....	44
5.1.2	STRATIGRAPHIC ANALYSIS.....	44
<b>Contents</b>		<b>Page</b>
<b>No</b>		
5.2	METHOD OF PREPARING DEPTH SECTION .....	44
5.3	INTERPRETATION PLAN .....	45
5.3.1	INTERPRETER'S OBJECTIVES .....	45
5.3.2	INTERPRETATION PROCESSES .....	45
5.4	SEISMIC STRATIGRAPHIC INTERPRETATION TECHNIQUES.....	47
5.5	SOFTWARE UTILIZATION.....	48
5.6	BASE MAP.....	49
5.7	REFLECTOR IDENTIFICATION .....	51
5.8	INTERPRETATION OF GIVEN SEISMIC SECTIONS .....	51
5.8.1	INTERPRETATION OF SEISMIC LINE 921-FABS-01 .....	52
5.8.2	INTERPRETATION OF SEISMIC LINE 921-FABS-04.....	53
5.8.3	INTERPRETATION OF SEISMIC LINE 921-FABS-05.....	54
5.8.4	INTERPRETATION OF SEISMIC LINE 931-FABS-16A .....	55
5.9	TIME SECTIONS .....	56
5.10	DEPTH SECTIONS .....	60
5.11	ESTIMATION OF SEISMIC VELOCITIES .....	64
5.11.1	MEAN AVERAGE VELOCITY LINE METHOD.....	64
5.11.2	ISO VELOCITY GRAPHS .....	66
5.12	TIME CONTOUR MAPS.....	69
5.13	DEPTH CONTOUR MAPS.....	72
5.14	VELOCITY CONTOUR MAPS.....	75
5.15	3D CONTOUR MAPS: .....	78
5.16	3D OVERLAY SURFACES.....	80
<b>CHAPTER 6 CONCLUSION, RECOMMENDATIONS AND SUMMARY .....</b>		<b>82</b>
6.1	CONCLUSION.....	83
6.2	RECOMMENDATIONS .....	83

REFERENCES.....	84
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## LIST OF FIGURES

Figures No	Page
<b>CHAPTER 1 INTRODUCTION .....</b>	<b>1</b>
FIGURE 1.1. Location of the area on Punjab platform (modified after Mujtaba, 2006) .....	3
FIGURE 1.2. Base Map of Study Area (courtesy LMKR).....	4
 <b>CHAPTER 2 REGIONAL GEOLOGICAL SETTING .....</b>	 <b>6</b>
FIGURE 2.1. Regional geological setting and location map of study area (Punjab Platform) (modified after Nizamuddin, 1997). 8	
FIGURE 2.2. Central Indus basin and subdivisions into petroleum zones (after Raza et al.1989).10	
FIGURE 2.3. Map showing Bikaner-Nagaur Basin, Punjab Platform, Kirana Hills, location of the wells and a schematic cross-section from Salt Range to Bikaner-Nagaur Basin (modified after R.A. Sheikh, 2003). 11	
FIGURE 2.4. Illustrating the two proposed hypothesis for the buried hill structures in Fort Abbas (Yasin, 1994)	14
 <b>CHAPTER 3 STRATIGRAPHY &amp; PETROLEUM PROSPECTS.....</b>	 <b>16</b>
FIGURE 3.1. Generalized Stratigraphic Column of Central Indus Basin.(Kazmi & Abbasi, 2001) 19	
FIGURE 3.2. Generalized Stratigraphy of the Punjab Platform (after R. A. Sheikh, 2003) . 20	
FIGURE 3.3. Generalized events chart for Punjab Platform with reference to Fort Abbas-01 (courtesy OGDCL). 29	
 <b>CHAPTER 4 SEISMIC DATA ACQUISITION AND PROCESSING .....</b>	 <b>30</b>

FIGURE 4.1. Showing Split Spread diagram used during the acquisition.	32
FIGURE 4.2. Showing Seismic Refraction Energy (Source. <a href="http://enviroscan.com/sesmic_refrection/html">enviroscan.com/sesmic_refrection/html</a> ).	35
FIGURE 4.3. Showing Seismic Reflection Energy (Source <a href="http://enviroscan.com/sesmic_reflection/html">enviroscan.com/sesmic_reflection/html</a> ).	36
FIGURE 4.4. Showing Reverse Polarity	40

<b>Figures</b>	<b>Page</b>
<b>No</b>	

**CHAPTER 5 SEISMIC DATA INTERPRETATION.....42**

FIGURE 5.1. Screens capture showing the graphical user interface of Surfer v.9.0.	48
FIGURE 5.2. Showing Base Map of the Study Area (Courtesy of LMKR).	50
FIGURE 5.3. Showing Interpreted Seismic Time Section of Line 921-FABS-01	52
FIGURE 5.4. Showing Interpreted Seismic Time Section of Line 921-FABS-04	53
FIGURE 5.5. Showing Interpreted Seismic Time Section of Line 921-FABS-05	54
FIGURE 5.6. Showing Interpreted Seismic Time Section of line 931-FABS-16A	55
FIGURE 5.7. Showing Time Section of Seismic Line 921-FABS-01	56
FIGURE 5.8. Showing Time Section of Seismic Line 921-FABS-04	57
FIGURE 5.9. Showing Time Section of Seismic Line 921-FABS-05	58
FIGURE 5.10. Showing Time Section of Seismic Line 931-FABS-16A	59
FIGURE 5.11. Showing Depth Section of Seismic Line 921-FABS-01	60
FIGURE 5.12. Showing Depth Section of Seismic Line 921-FABS-04	61
FIGURE 5.13. Showing Depth Section of Seismic Line 921-FABS-05	62
FIGURE 5.14 . Showing Depth Section of Seismic Line 931-FABS-16A	63
FIGURE 5.15. Showing Average Velocity Curve of Line 921-FABS-01	64
FIGURE 5.16. Showing Average Velocity Curve of Line 921-FABS-04	65

FIGURE 5.17 . Showing Average Velocity Curve of Line 921-FABS-05	65
FIGURE 5.18 . Showing Average Velocity Curve of Line 931-FABS-16A	66
FIGURE 5.19. Showing Iso Velocity Graphs of Line 921-FABS-01	67
FIGURE 5.20. Showing Iso Velocity Graphs of Line 921-FABS-04	67
FIGURE 5.21. Showing Iso Velocity Graphs of Line 921-FABS-05	68
FIGURE 5.22. Showing Iso Velocity Graphs of Line 931-FABS-16A	68
FIGURE 5.23. Showing Time Contour Map of Sakesar Formation on the Base map	70
FIGURE 5.24. Showing Time Contour Map of Kussak Formation on the Base map	71
FIGURE 5.25. Showing Depth Contour Map of Sakesar Formation on the Base map	73
FIGURE 5.26. Showing Depth Contour Map of Kussak Formation on the Base map	74
FIGURE 5.27 . Showing Velocity Contour Map of Sakesar Formation on the Base map	76
FIGURE 5.28. Showing Velocity Contour Map of Kussak Formation on the Base map	77

<b>Figures No</b>	<b>Page</b>
FIGURE 5.30 . Showing 3D-Depth Contour Map of Sakesar Formation with base map overlay .	78
FIGURE 5.32. Showing 3D-Depth Contour Map of Kussak Formation with base map overlay.....	79
FIGURE 5.33. Showing 3-D surface overlay of Sakesar and Kussak Formation with base map overlay .....	80
FIGURE 5.34 . Showing 3-D surface overlay of Sakesar and Kussak Formation.	81



