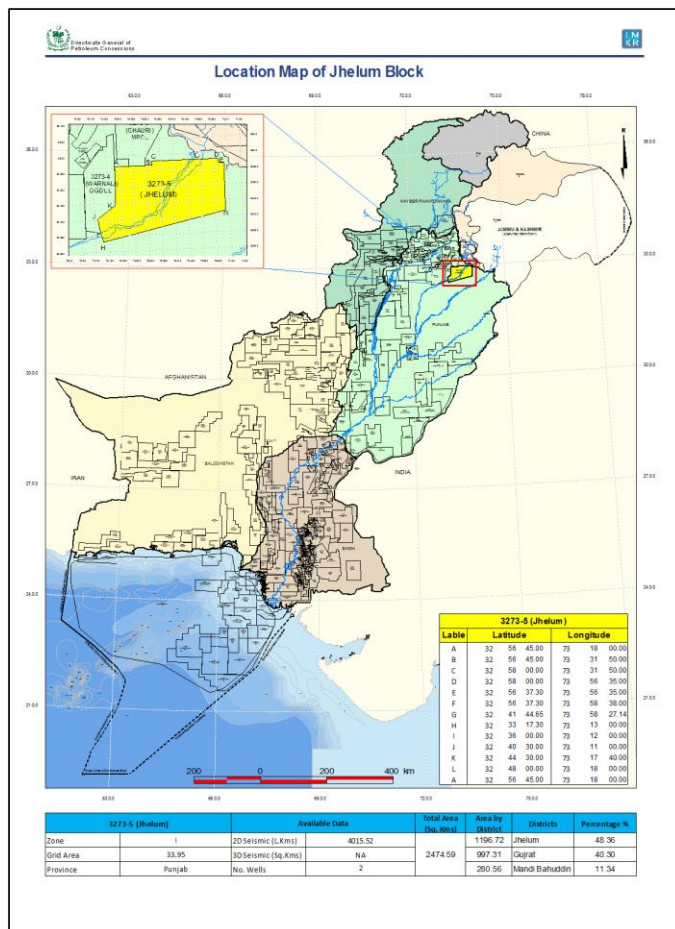


## JHELUM BLOCK (3273-5)

### Introduction

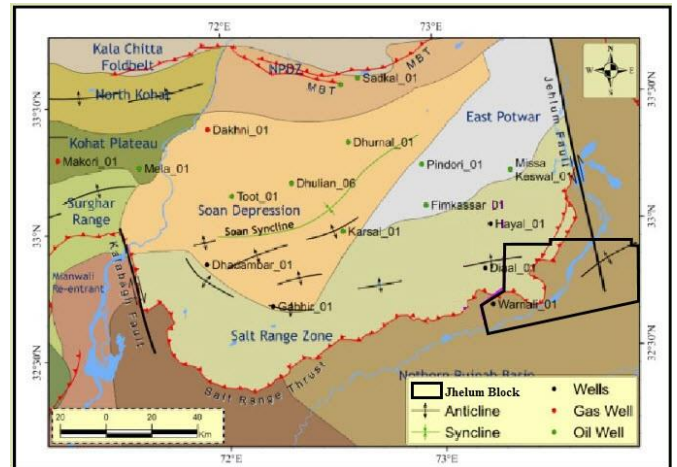
Jhelum Block covers an area 2474.59 sq km and is located in Jhelum, Gujrat and Mandi Bahauddin districts of Punjab Pakistan. The block is located about 122 kilometers southeast of Islamabad and 177 kilometers north of Lahore. Geologically, it lies in the Upper Indus Basin (East Potwar sub-basin) of Pakistan. The block falls in Prospectivity Zone I.



### Geology and Tectonics

Tectonically, the block straddles the northern part of Punjab Platform and the parts of Potwar Basin. The exposed rocks on the surface are of Quaternary to Neogene age. In the block area, majority of salt range thrust is running from northeast to southwest direction. The two antiforms Rohtas/Jogi Tilla and Kharian are also present in this block.

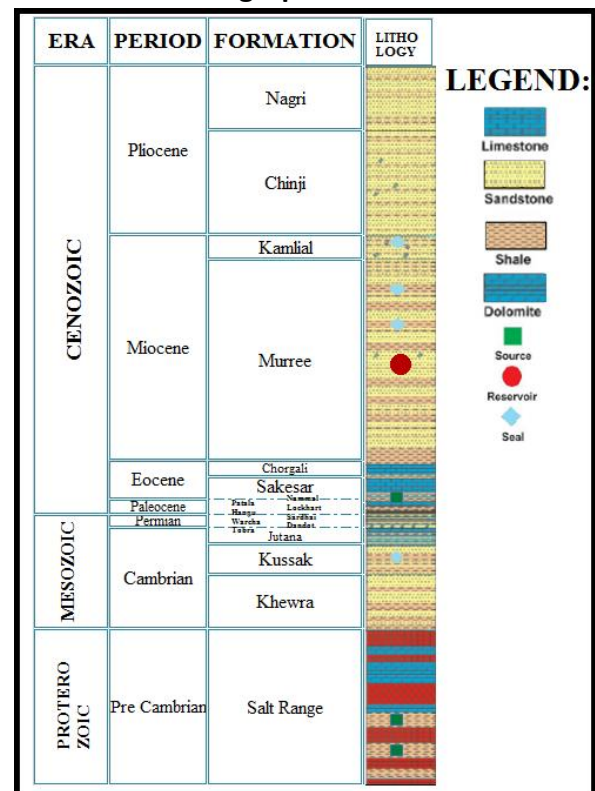
### Geological Map



### Stratigraphic Sequence

Stratigraphy of this area ranges from Pre-Cambrian to Pliocene. An unconformity lies in Paleocene (Lockhart Formation).

### Generalized Stratigraphic Chart



### Petroleum Play

In Jhelum block structural traps are present because of compressional thrust associated environment.

### Source

Three potential source formations are present in the area, which include Nammal Formation (Eocene), Patala Formation (Paleocene) and Salt Range Formation (Pre Cambrian).

### Reservoir

The potential reservoirs in the block are Murree Formation (Miocene), Chorgali and Sakesar Formations (Eocene), Khewra, Kussak and Jutana Formation (Cambrian).

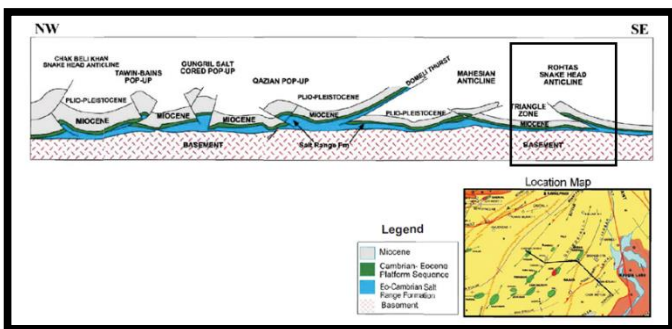
### Seal

In Jhelum area the possible cap rocks may be the interbedded shales of the Kamliak and Murree Formation (Miocene), Chorgali Formation (Eocene) and Kussak Formation (Cambrian).

### Trap

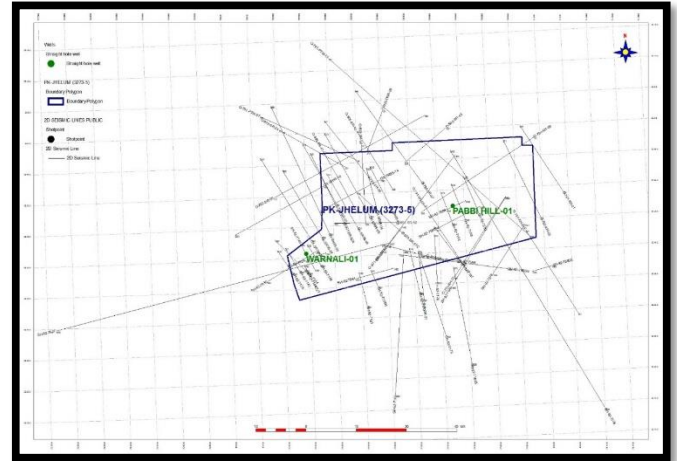
The trapping mechanism for the accumulation of hydrocarbons in this block area can be fault propagation folds, fault-bend folds of upper Miocene to Pleistocene strata.

### Trapping Mechanism



M. Anwar Moghal, Muhammad Ishaq Saqi, Abdul Hameed and M. Nawaz Bugti, (2007)

### Jhelum Block Base Map



### Well Data

WELL NAME	SPUD DATE	OPERATOR	WELL TD(m)	TD FORMATION	PRIMARY TARGET
PABBI HILL-01	1983	SHELL	3238	Murree	N/A
WARNALI-01	1982	SHELL	2808	Basement	N/A

### Seismic Data

2D SEISMIC DATA	3D SEISMIC DATA
Line km = 4,015.52	3D data is not available