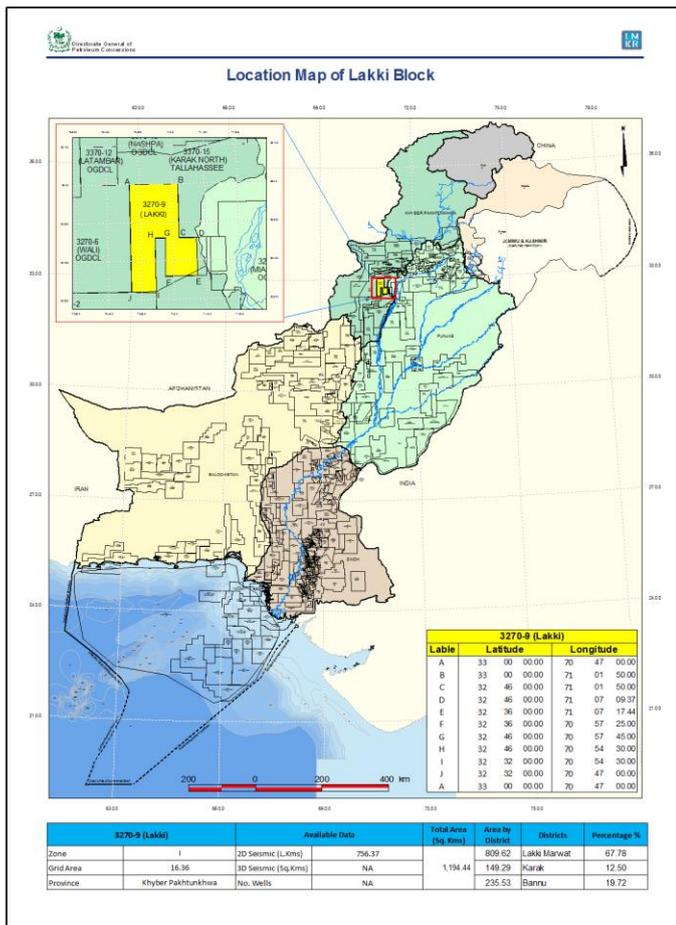


LAKHI BLOCK (3270-9)

Introduction

Lakhi Block covers an area 1,194.44 sq km and is located in Lakki Marwat, Karak and Bannu districts of Khyber Pakhtunkhwa (KPK) Pakistan. The block is located about 300 km southwest of Islamabad and 200 km southwest of Peshawar. It is easily approachable by a network of highways and concrete roads from District Peshawar, Bannu, Karak, and Lakki Marwat. Geologically, it lies in the Kohat Bannu Basin of Pakistan which is currently producing 55% of overall Pakistan's Oil. Kohat-Bannu Basin has proven and potentially viable Petroleum plays, ranging in age from Infra-Cambrian to Miocene rocks. The block falls in Prospectivity Zone I.



Geology and Tectonics

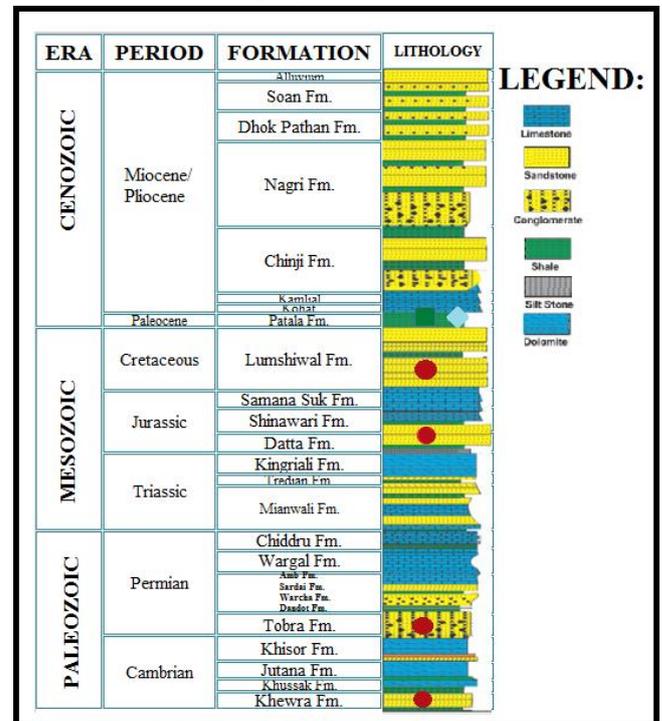
Tectonically block is located in the Kohat-Bannu Basin which is one of the most significant zones in an active foreland fold and thrust-belt of Pakistan.

The compressional tectonics at the northern margin of the Indian Plate give rise to this basin. The basin is moving southward over a salt layer which acts as a decollement surface between the Precambrian basement rocks and the Eocambrian-Neogene sediments of the Indian Plate. The Kohat Bannu plateau has been overthrust to the south along a sole thrust fault.

Stratigraphic Sequence

Stratigraphy of the area ranges from Cambrian to Mio-Pliocene.

Generalized Stratigraphic Chart



Petroleum Play

The Tal and Nashpa Blocks are highly prolific blocks lying adjacent to Lakki Block which is additionally proved by the presence of active Oil (Kundal) and Gas (Wandazalo Gas Seep in Bitani Range) seepages around the block. Thus, a high possibility of major discoveries is expected in the Lakki Block.

Source

The primary source in the block are Patala Formation (Paleocene), Chichali Formation (Cretaceous) whereas the secondary source can be Jatta Gypsum.

Reservoir

The primary reservoirs rocks include Lockhart (Paleocene), Datta (Jurassic), Lumshiwai (Cretaceous), and Chichali (Cretaceous) Formations while secondary reservoirs are Tobra (Permian) and Khewra Sandstone (Cambrian). All four primary reservoir rocks are capable systems and have delivered oil and gas in Khyber Pakhtunkhwa and Potwar area.

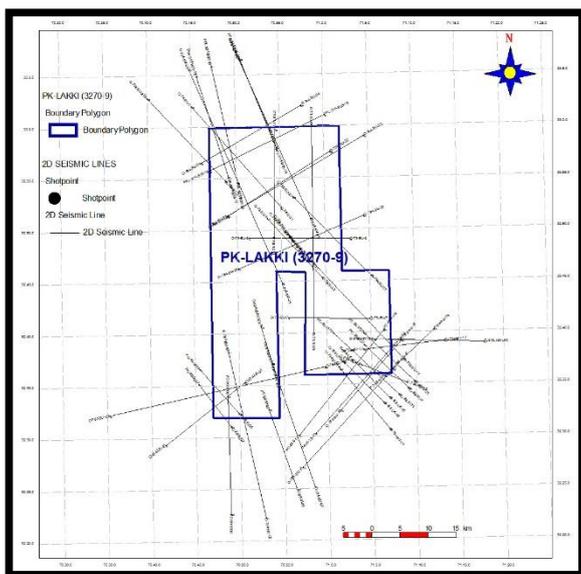
Seal

The Bahadur Khel salt and intra-formational shale can act as seal in this area.

Trap

In the block area the accumulation of hydrocarbons occur within the structural traps whereas stratigraphic traps can be seen on available seismic data.

Lakhi Block Base Map



Well Data

Well is not drilled in this block.

Seismic Data

2D SEISMIC DATA	3D SEISMIC DATA
Line km = 756.37	3D data is not available