



Smart Solutions for Today's Geoscientist



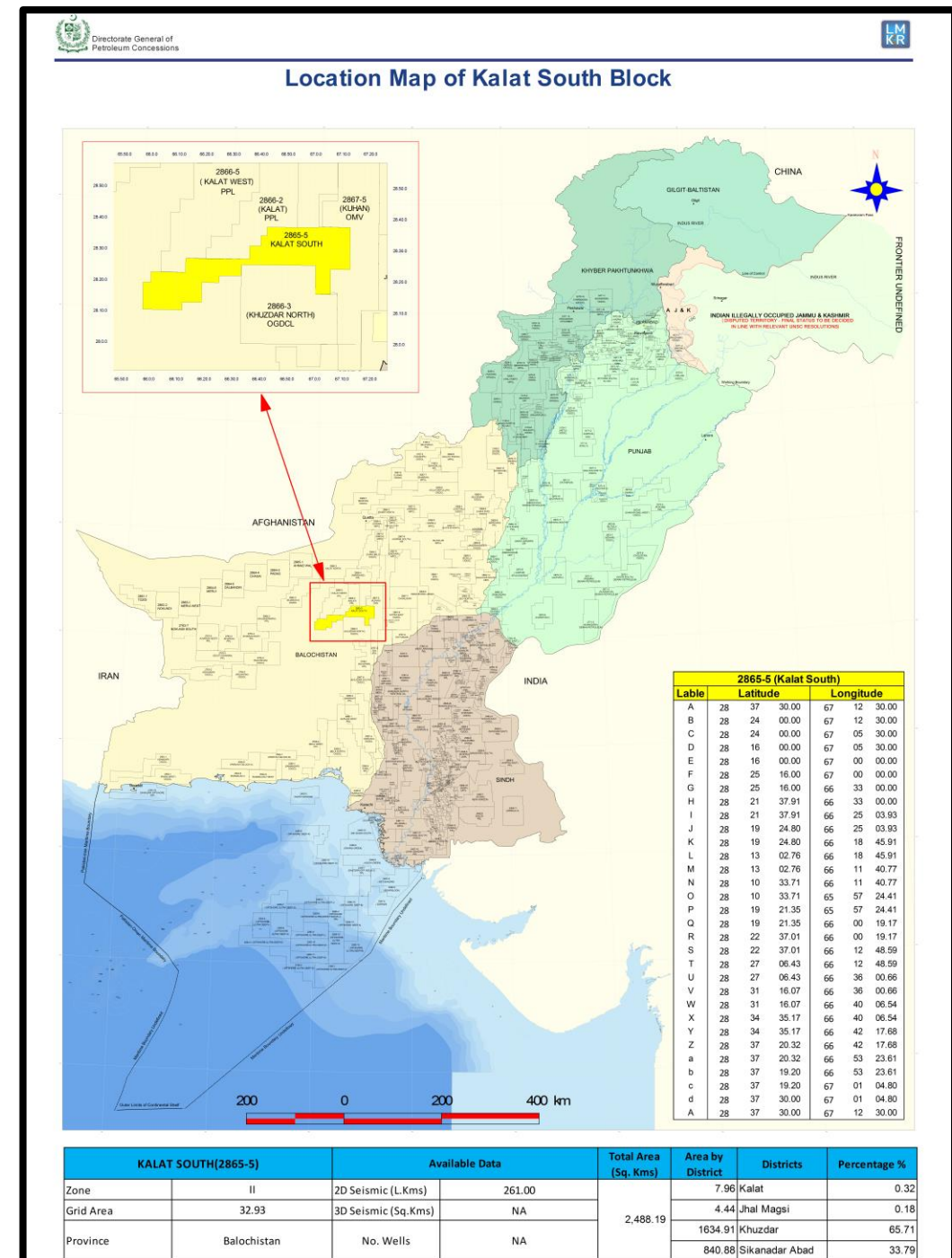
# BLOCK: KALAT SOUTH (2865-5)

ONSHORE BLOCK BIDDING ROUND 2025

MINISTRY OF ENERGY PETROLEUM DIVISION (DGPC)

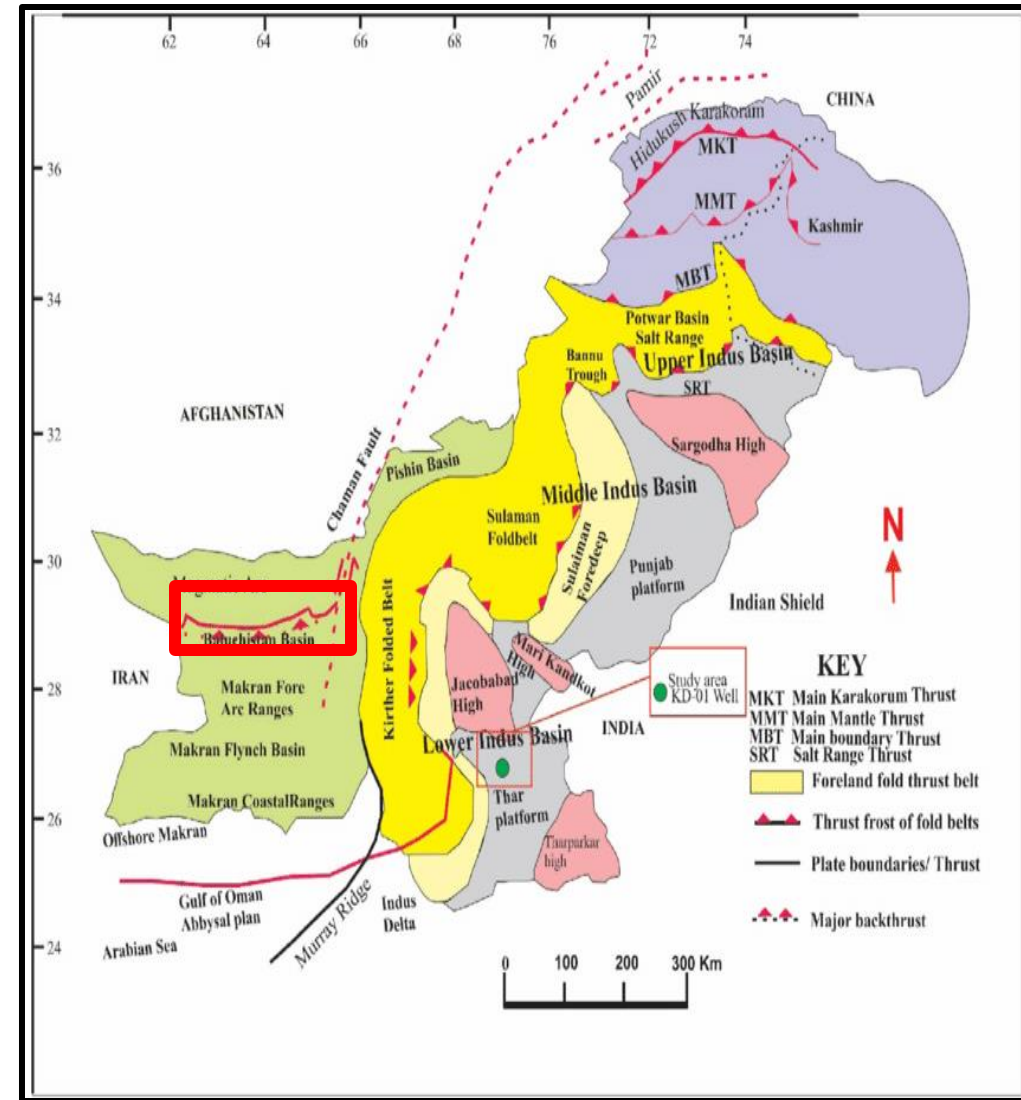
# Introduction

- Kalat South Block covers an area of 2488.19 Sq. Kms.
- Location: Jhal Magsi, Khuzdar, Sikanadar Abad and Kalat district, Balochistan, Pakistan.
- Geological Basin: Balochistan, Basin Pakistan.
- The block falls in Prospectivity Zone II.
- Estimated Resources of the Balochistan Basin\*:
  - Oil: 8,676 million barrels
  - Gas: 78 trillion cubic feet
- PPL and OGDCL acquired 2D seismic data approximately of 261.15 L. Kms in 2018 and 2020 within the block.
- The Block is surrounded by Kalat (North), Khuzdar North (South), Kuhan (East) and Kalat West (North-West) blocks.



# Geological Map

- The subduction of Arabian plate beneath the Indo-Pak subcontinent produced variable compressional structures in Baluchistan Basin.
- Towards the Makran area, these fold beds are much more pronounced.
- Chaghai Magmatic arc is also a consequence of these collisions.
- The anticlinal structures produced along with a combination of thrust faults and anticlines act as favorable environments for hydrocarbon accumulation in the area.
- Towards the west, along the Afghanistan boundary is the Chamman strike slip fault (a transform fault) having characteristics associated with compressional components.



# Petroleum System

## ■ Source Rock:

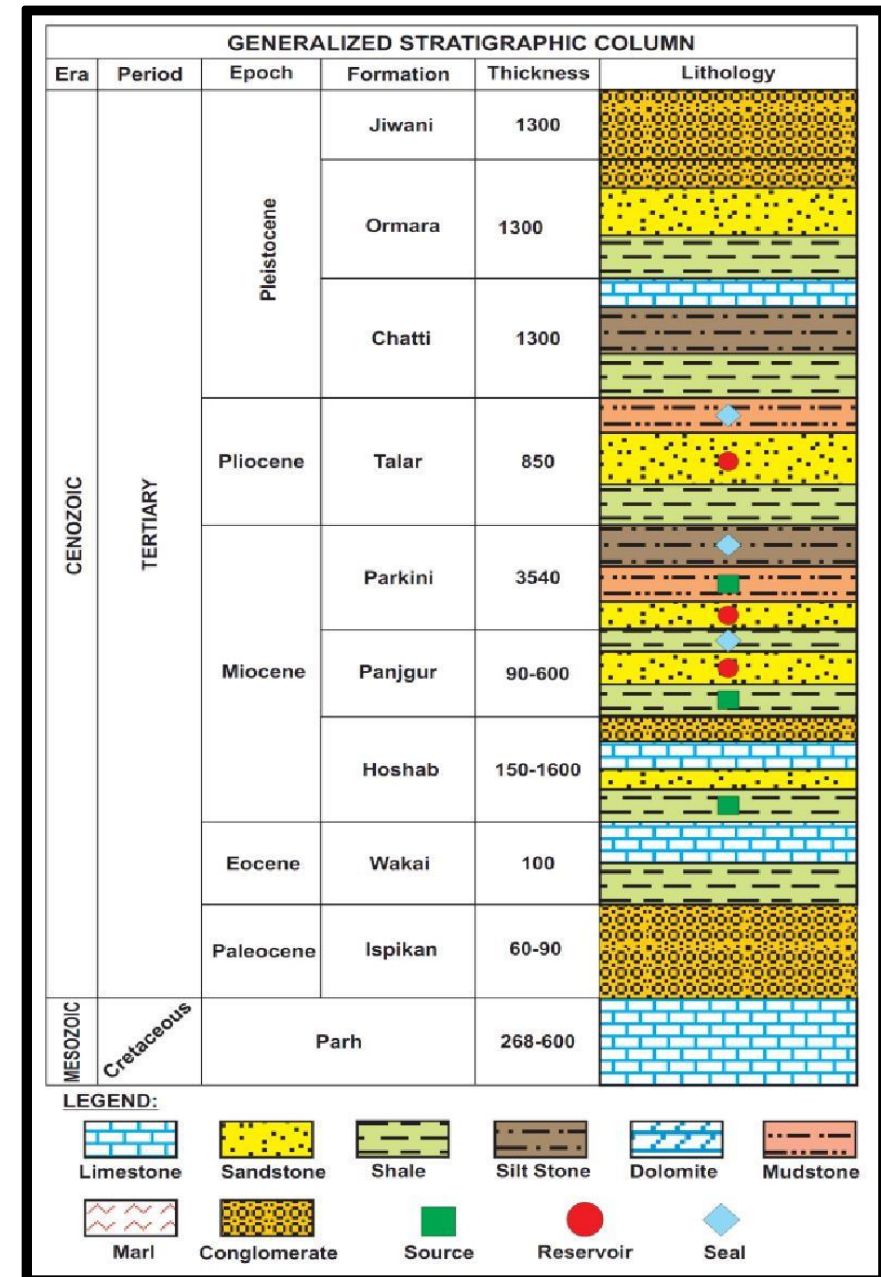
1. The main source rock of Makran Fold-belt include shales of Oligocene (Hoshab Formation), Miocene (Panjgur and Parkini Formation) and Pliocene (Talar Formations).
2. The estimated organic matter for the source rocks ranges from about 0.48 wt. % to 5.62 wt. % TOC with gas generation potential.

## ■ Reservoir Rock:

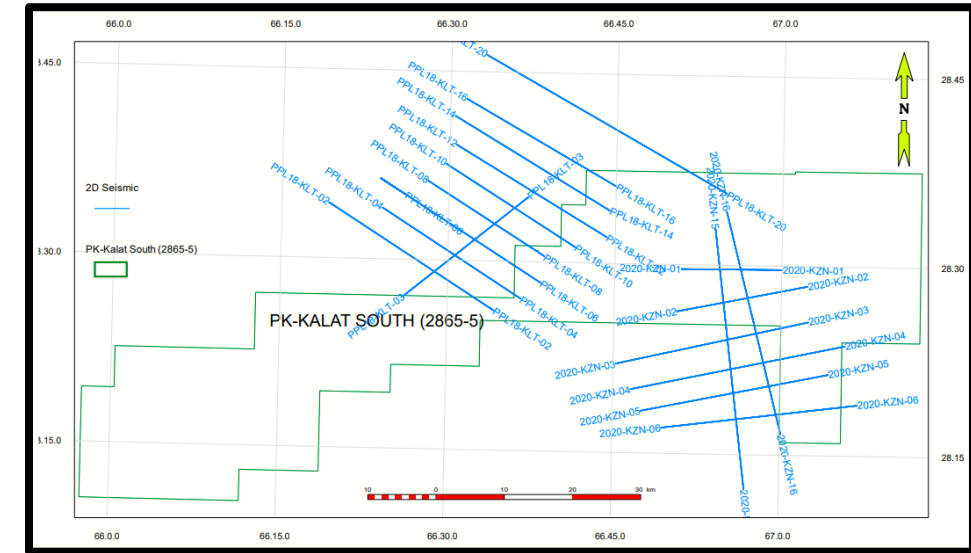
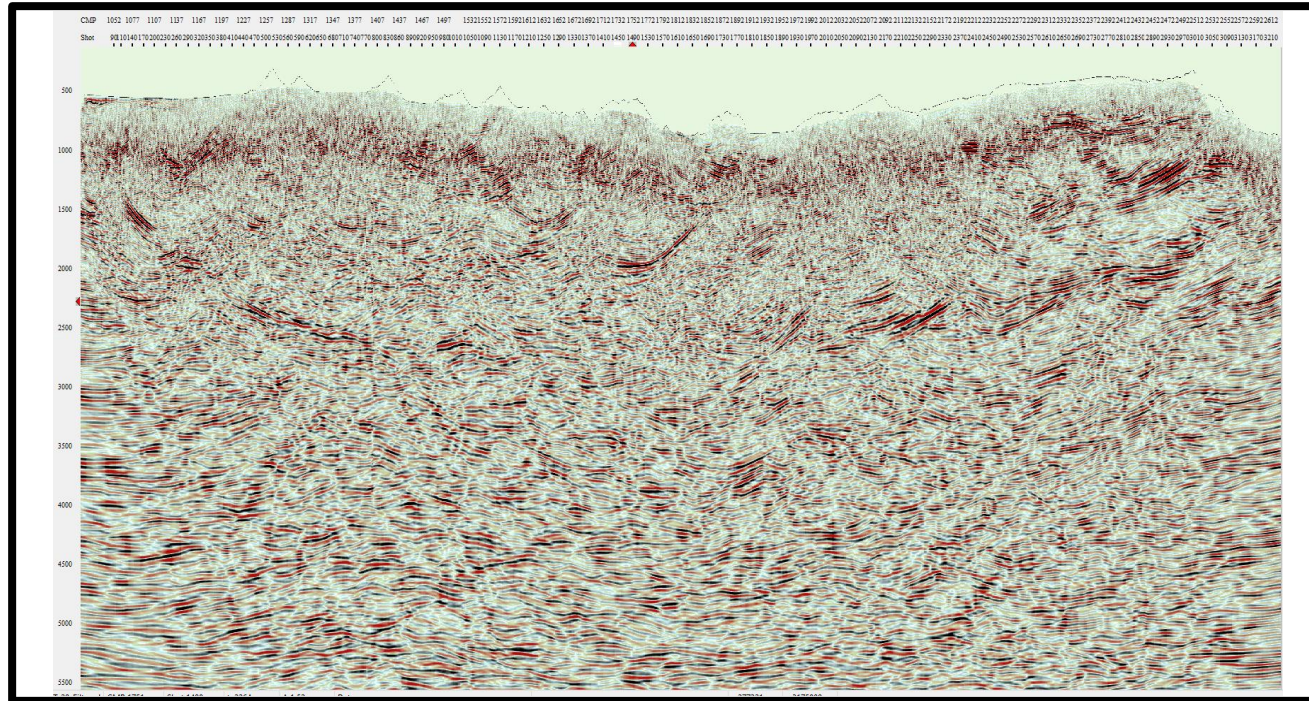
3. Middle to Upper Miocene turbidities of Panjgur and Parkini Formation are considered as reservoir rocks.
4. Lithologically turbidities are fine to coarse grained sandstones with shale intercalations. Panjgur samples show sandstone porosities of up to 17.34%.

## ■ Seal:

5. Shale horizons of abyssal sediments in Panjgur and Parkini formations are characteristically fine grained and well cemented which might provide an adequate seals



# Prospectivity



- The main trapping mechanism in this area is considered to be tilted fault block traps.
- High resolution seismic data can allow to delineate true potential of the block



# Investment Benefits

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- High risk, high reward.
- Largest gas discovery in the geographic province.
- High cost on infrastructure development within limited timeframe.
- Return on Investment within 3 years.
- Attractive government policies for foreign investors.
- Excellent purchase rate set by the Government against the discovered commodity.
- Government will guarantee to buy the gas or oil discovered.
- Attractive price in case of tight gas discovery.

# Block Summary

Item	Indicators
Probable multiple sources in the region	Positive Indicator
Discoveries in Geographical Province	Positive Indicator
Nearby Infrastructure	Positive Indicator
ROI in 3 Years	Positive Indicator



# THANK YOU

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