

EGPC Brownfields

Bid Round 2023



Agenda

- ✤ GOS Regional Overview
 - Data Availability
 - Plays Concept
 - Current Structural Setting

- Brownfields location Map
- Brownfields Potentials and Total Technical Commitments

Data Availability

Area: GOS ≈ 21,000 km2 (Onshore and offshore) Seismic coverage:

- ✓ **2D**: ≈ 41800.2 Km
- ✓ Depth Domain 3D: ≈ 10043.3 Km2
- ✓ Time Domain 3D: ≈ 17693.9 Km2
- ✓ Magnetic and gravity data
- ✓ Existing Wells: ≈ 4500







Esna Shale

Cap rocks

Belayim fm. The

flows

Evaporite series of the

Zeit, South Gharib and

Oligocene (Abu Zenima

beds which are igneous

Petroleum System





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limestone

Rudeis fm. the lower and the upper are argillaceous

Plays Concept





The HC play types are represented: **Pre-rift section** by tilted fault blocks, horst blocks, eroded basement at up dip areas of tilted blocks, as well as fractured carbonate rocks. Syn-rift section, play types are represented by reefal buildups at updip edges of tilted fault blocks and horst blocks. Nukhul channel sands. Rudeis fan deltas and bar sands. Kareem fan deltas and sheet sands, and intra-evaporite fan deltas and channel sands.



Gulf of Suez System

Structural 89%

Successful Drilling Results

Combination 7%



Current Structural Setting

The Gulf of Suez is currently subdivided into three structural provinces according to their structural setting and regional dip direction

1. Northern Province

This province is characterized by high structural features and has been much affected by Tethyian sedimentation. The regional dip of strata is southwest while The main fault trends (the clysmic and the Aqaba) throw toward northeast and southeast respectively

2. <u>Central Province</u>

The characteristic feature of that province is the Pre-Miocene shallow structures underlying the Miocene sediments as in Ras Gharib, Ras Fanar. Bakr and Amer Oil Fields. These highs were subjected to severe erosion. The eroded Pre-Miocene sediments were redeposited in the Early Miocene troughs such as October and Gharib troughs. The reefal limestone of the Middle Miocene is developed on the Pre-Miocene highs. The regional dip is northeast. The main clysmic and Aqaba trending throw towards southeast and northwest respectively

3. Southern Province

It is characterized by the occurrence of surface outcrops of Miocene, Pre-Miocene sediments and basement rocks in Gebel El Zeit and Esh El Mellaha ranges. The regional dip of strata is towards southwest as the northern province and the main clysmic and cross faults throw towards northeast and southeast respectively.





Near Nubia

Depth Structure Maps

Near Zeit



Near Thebes ?

• GOS Regional Maps Showing major Fault trends & Depocenters. © 2023 Egypt Upstream Gateway. All rights reserved.

Near Belayim

Isopach Maps



• GOS Regional Isopach Maps Showing Thinning, Thickening & Depocenters.





Brownfields Location Map



Brownfields Bid Round Technical Commitments









Thank you

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