

## Summary

- Field mapping and outcrop studies to define the stratigraphic and structural features in the extensional rift basins.
  - Leads and prospects identification by interpreting 2D and 3D seismic data in different tectonic settings such as: extensional rift basins (Gulf of Suez), inverted rift basins (Western Desert, Egypt), and passive margins (Nile delta) and intercratonic basins (Eromangna basin, Australia).
  - Generating balanced cross sections and different types of time and depth maps in different tectonic settings.
  - Using seismic attributes to discover the tectonic and stratigraphic with the ability of fault identification and mapping and detecting reservoir sweet spots.
  - Building structural, facies and petrophysical models to model the hydrocarbon reservoirs and to estimate the volumetrics by using Petrel platform.
  - Using Monte Carlo simulation to test the geologic uncertainties and its effect on the volumetrics.
  - Proven track record of identifying geologic controls on production in existing fields through the integration of geological and geophysical data in combination with geostatistics in 3D static models.
  - Excellent operations geology experience, offshore in the Nile Delta basin and onshore in the Permian basin.
  - Data analysis and visualization, managing large databases by using python codes and libraries.
  - Advanced skills with variety of platforms, including Petrel, Techlog, Interactive Petrophysics (IP), Kingdom Suite, Move and more.
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## Professional Experience:

### 2018-2020 **Geologist, Excellence Logging**, Texas, Permian basin.

- **Integrated, evaluated and interpreted geologic and drilling data** in order to understand stratigraphic and structural frameworks while drilling the horizontal wells.
- **Performed advanced geological and geochemical sampling** as isotubes, isojars and DNA samples.
- **Kept in constant contact with geologists and operations personnel** to help them identify operationally significant lithology changes, formation tops, and identify productive zones.
- **Monitor gas levels and drilling parameters and hazards.**
- **Send daily reports and logs** concerning the geological and drilling parameters to the Operations Geologist.
- **Instructed and mentored junior coworkers** in geologic interpretation and company best practices.

### 2010-2018 **Geologist, North Sinai Petroleum Company/ Perenco JV**, Egypt. (Nile Delta basin team)

- **Constructing 3D static models and calculate hydrocarbon volumetrics in place** to design the most effective well plans to develop the mapped sandstone and carbonate reservoirs in the Post and Pre Messinian reservoirs resulted in 6 new drilled wells added to the producing offshore platform.

- **Identified 30+ drillable locations added to the inventory** by prospecting for new targets. Exploitation workflows included building structural and stratigraphic frameworks, incorporating seismic interpretations and attributes, property and facies distribution, then integration with the production history.
  - **Helped establish technical direction of the geoscience asset team** with continual focus on increasing production and driving costs down. Led weekly staff meeting, managed rig assignments, mentored other geologists, and organized workflows. Created reservoir modeling and structural geology presentations for company training program.
  - **Constructing depth, time, thickness maps** through interpretation of the 3D seismic acquired for the offshore northeast Nile Delta and Gulf of Suez areas.
  - **Efficiently load and correlate** real-time petrophysical logs and rock cuttings data to determine structural and stratigraphic orientation of geologic target zone with respect to the wellbore.
  - **Capable of integrating existing data** and/or creating new maps, cross sections, seismic, and well plans as needed to optimize drilling operations and mitigate subsurface drilling hazards.
  - **Maintain continuous communication within integrated operations team** (Drill Site Manager, directional driller, drilling engineer and MWD hand) via verbal and written communication of technical data. Preparation and presentation of clear, concise updates and reports for each well while coordinating within the team to ensure that they are informed and engaged.
  - **Assisted with drilling strategies and well steering** while coordinating well site service companies and processing core and cuttings samples for geochemical and petrophysical investigation.
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## **Education:**

**2021-Present Ph.D. in Geology**, University of Houston

**2012-2019 Master in Geology**, Faculty of Science, Ain Shams University, Cairo, Egypt.

Thesis: Fault damage zones in Hammam Faraun block, Suez rift, Egypt.

**2005-2009 B.Sc. in Geology**, Faculty of Science, Ain Shams University, Cairo, Egypt.

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## **Software Skills**

- Expert in using Petrel geology and geophysics cores.
  - Expert in using IP and Techlog softwares for well log interpretation and formation evaluation.
  - Expert in using Kingdom Suite.
  - Experts in using Microsoft office (Word, Excel, PowerPoint and Outlook)
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## **Professional Memberships:**

- Houston Geological Society (HGS)
  - American Association of Petroleum Geologists (AAPG)
  - Geological Society of London (GSL)
  - Society of Exploration Geophysicists (SEG)
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## **Publications:**

- Fault damage zones in the Hammam Faraun Block, Suez rift, Egypt, Cairo, 2019.
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