

Target Exploration

Course No. 2

Introduction to the Petroleum Geology of Oman: An Analogue for Future Oil & Gas of MENA

Duration: One Day

Instructor: Salah Al-Dhahab, PhD.

Course Outlines:

8:30-9:00 Course Registration, Coffee and Tea.

9:00-12:00: A country overview

**Continuous success story of Oman's Hydrocarbon exploration
& development of Paleozoic to Tertiary rocks.**

History of the Oil & gas exploration and development in Oman. The key-players in the country's oil and gas industry (operators and services providers).

Oman Petroleum system

What are the main source rocks in the subsurface of Oman? How the HC migrated and trapped with focus on major regional reservoirs and sealing units?

Oman Subsurface Stratigraphy

From basement to surface, what is the overall succession of rocks? How does it differ from South Oman to North Oman? What are the major regional reservoir units?

Oman Petroleum provinces regional structural geology

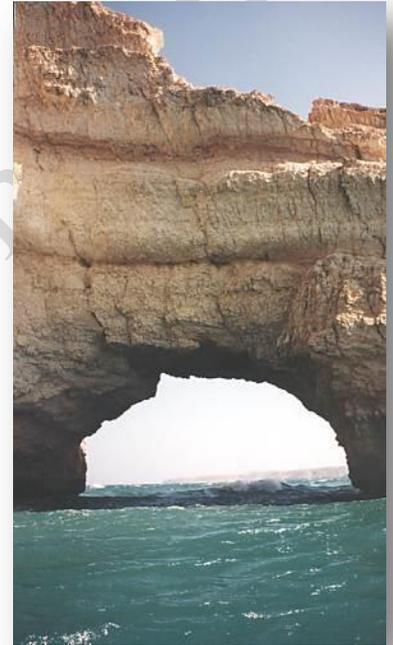
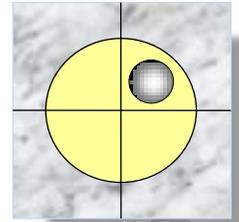
Regional structural elements of Interior Oman. What are the main tectonic events that created the main structures of Interior Oman? What are their impacts on reservoirs trapping efficiencies? What are their impacts on reservoirs qualities? What about stratigraphic traps?

12:00-13:00: Lunch Break

13:00-17:00: Main Hydrocarbon reservoirs of Oman

The Cretaceous carbonate reservoirs

What are the proven Cretaceous Carbonate Reservoirs of Oman? What are their depositional models? Where they are distributed? What are the main parameters that one needs to focus on to develop them efficiently?



The Permian clastic reservoirs

What are they? What are their depositional models? Where they are distributed? What are the main parameters that you need to focus on to develop them proficiently?

The Cambrian-Ordovician clastic reservoirs

What are they? What are their depositional models? Where they are distributed? What are the main parameters that you need to focus on to develop them competently?

The Pre-Cambrian carbonates reservoirs?

What are they? What is their depositional model? How they are distributed? What are the main parameters that you need to focus on to develop them efficiently?

The unconventional HC potential of Oman, and what's next?

Unconventional reservoirs potential of Oman, rejuvenation of mature fields; exploring proven and potential Tertiary reservoirs of Oman; Oman offshore potential; and the unexplored area of Interior Oman.

Participants will also receive an inventory list of key references books & published scientific papers on Oman Petroleum Geology as well as useful links to Oman Petroleum Oil and Gas industry network.

Who Should Attend his Course?

Course designed for Petroleum industry personnel (geo-scientists, petroleum engineers, upstream new ventures, etc.) and petroleum managers who are working or will be working on Oman oil and gas fields.

The Instructor

Dr. Salah H. Al-Dhahab is the appointed Senior Geological Advisor at Daleel Petroleum (independent operator) in Oman. Dr. Salah has 20 years of experience in the Oil and Gas industry through working for Petroleum Development Oman (NOC), Shell EPT (IOC), Knowledge Reservoir petroleum service company (now RPS-KR), Oman Oil Company (upstream investment company). During these years Dr. Salah acquired hands-on work experience on several types of field developments including primary pure depletion, to secondary water flooding to Tertiary thermal GOGD & thermal flooding, and analyzed data at several scales from well scale to field scale to regional scale and participated in the FDP of several oil and gas, carbonate and clastic fields. Dr. Salah has a BSc in Petroleum Geology from University of Aberdeen and a PhD in fractured reservoir characterization from the Institute of Petroleum, Heriot-Watt University, U.K.

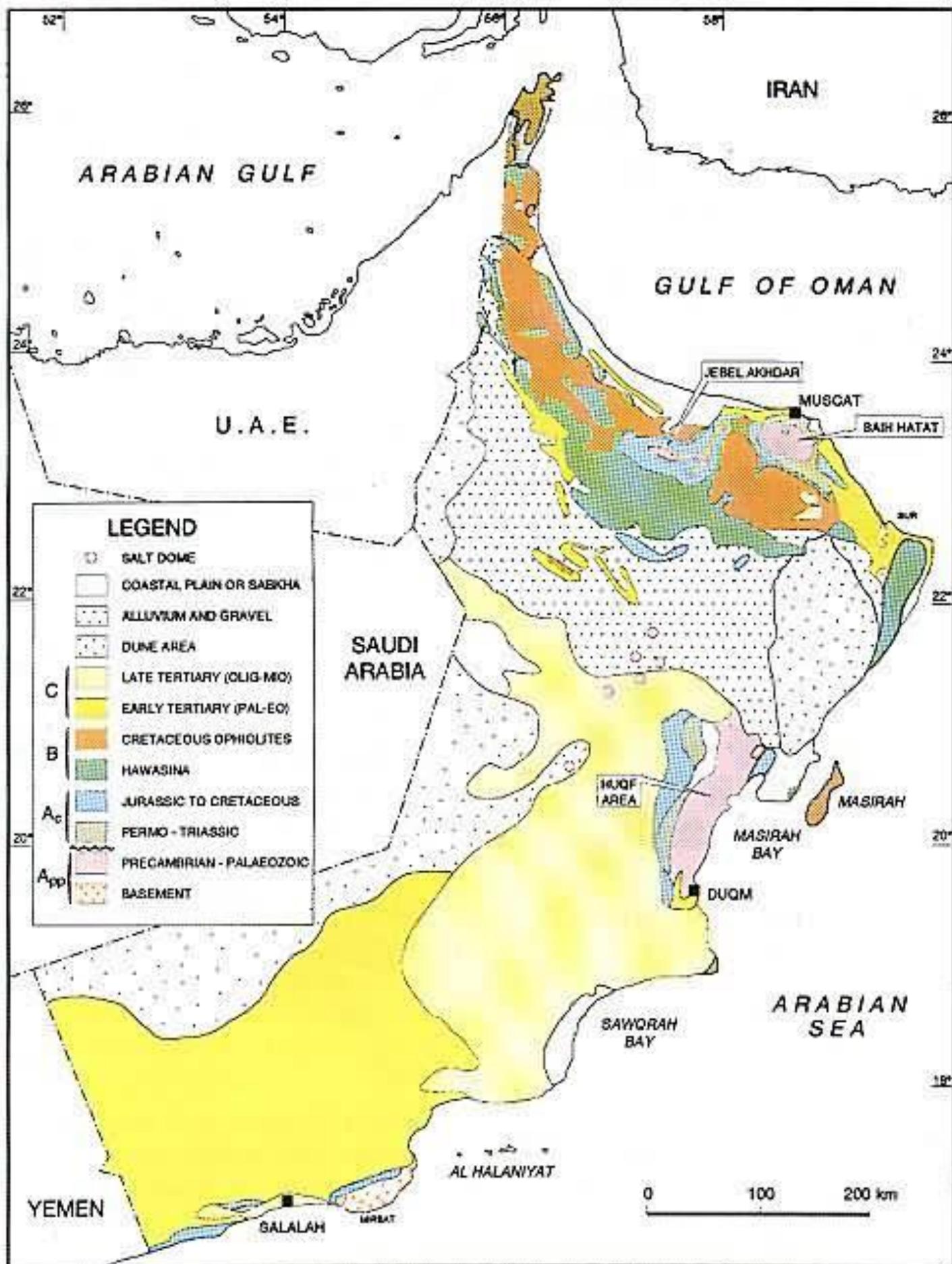
For course date, location and registration, contact:

Dr. MW. Ibrahim, PhD.

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Simplified geological map of Oman showing the three major geological provinces, the Oman mountains in the north (including the Musandam Peninsula), the Huqf area west of Masira Island and the Dhofar mountains.