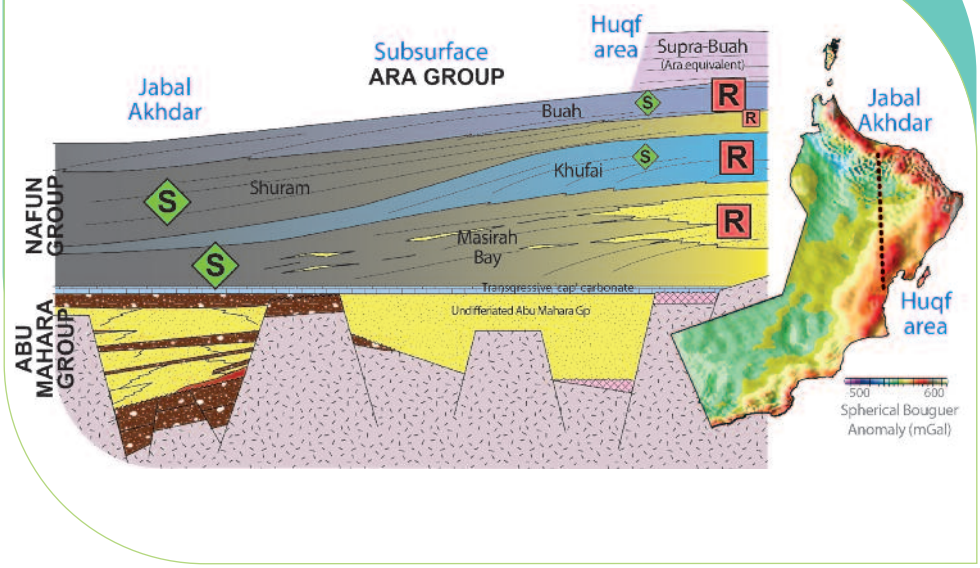
GEOSCIENCE AT ITS BEST

Oman's Neoproterozoic

A proven play, yet underdeveloped!

BEICIP-FRANLAB'S SOLUTIONS

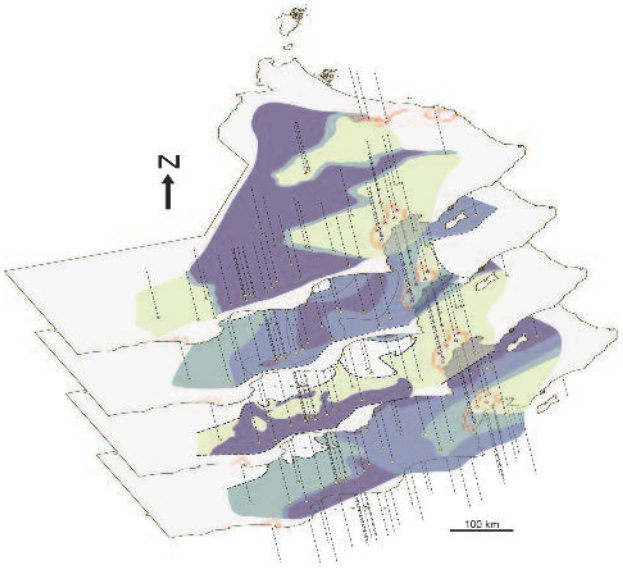


New Play to be explored

Hydrocarbon potential of Oman's Neoproterozoic is largely ignored probably because of a lack of a comprehensive understanding of the pre-salt strata. Still, this play yields identified potential to be exploited. Beicip-Franlab offers tailor-made solutions based on exclusive Knowledge of Oman's Precambrian geology and dedicated software solutions.

Beicip Franlab offers

Beicip-Franlab provides you with technical assistance on Oman's Neoproterozoic stratigraphy, with a large field and subsurface experience of the presalt systems in Oman and also across the Rodinia basins. Beicip-Franlab provides integrated innovative studies coupled with dedicated in-house software solutions, expert opinion, on-the-job training and fieldtrips based on its large outcrop and subsurface experience.



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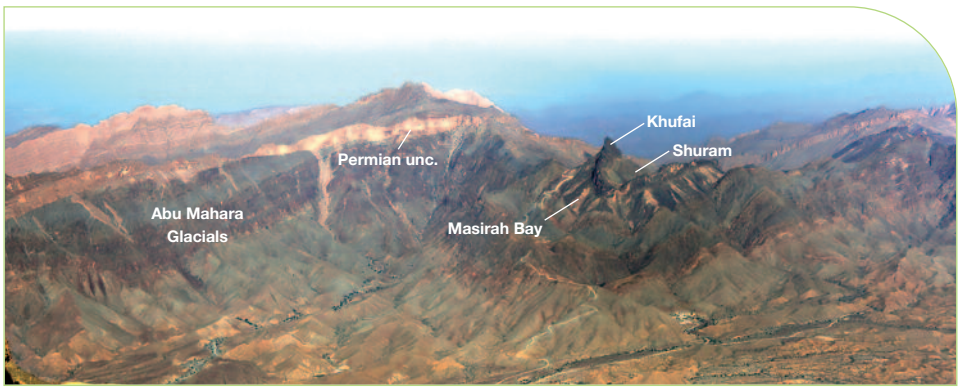
Context

Oman's Neoproterozoic is composed of the glaciogenic Abu Mahara Group bounded in rift basin on top of which an extensive passive margin lays infilling inherited paleogeography. The Masirah Bay and Shuram formations present hundreds of meter thick of black shales passing laterally to storm dominated platform and estuarine sandstones. The carbonated Khufai and Buah formations represent shallow marine platforms deepening to marine offshore.



Exhaustive South Oman Salt Basin analysis identified the Nafun and Ara groups as large source rock contributors, with source rock potential index reaching 7 tHC/m^2 in the Shuram Formation.

Trapping opportunities largely benefit from early Neoproterozoic rifting structuration with a secured regional sealing assured by the extensive Ara Group Salt.

Recent exploration has demonstrated hydrocarbon impregnation throughout the Nafun group and economic reserves in the Buah Formation North-East of the South Oman Salt Basin.

Technical Solutions

EXCLUSIVE NEOPROTEROZOIC KNOWLEDGE

Beicip-Franlab's experience of Oman's Neoproterozoic largely benefits from an academic experience on Precambrian strata and in particular with Oman's extensive outcrops (Jabal Akhdar and Huqf area) with integration to the subsurface.

Our experts possess amongst the most comprehensive knowledge of Oman's Precambrian depositional system. This experience is based on extensive field analysis to characterize the Nafun and Abu Mahara groups in terms of lithologies and depositional systems completed by integration to the subsurface to address regional trends.

ADDED VALUE OF MODELING IN PLAY ASSESSMENT

Sedimentary and Petroleum system modeling provides a unique way to add value to a petroleum play study. The sedimentary system modeling with DionisosFlow® software complements the paleoenvironment reconstruction by simulating the sedimentation processes at the play scale and predicting facies occurrence (source, seals, reservoirs) in poorly documented areas.

Likewise, the integrated petroleum system modeling with the 3D TemisFlow® software allows to simulate oil and gas charge and preservation processes and to provide quantitative estimates of the Yet-to-Find oil and gas volumes, as well as the probability of success at play and prospective area scales.

Both software fully support the specific challenges posed by unconventional hydrocarbon potential assessment that are both present in the Shuram and Masirah bay shales.

TemisFlow™

- Quantitative Basin Modeling
- Prospect Assessment & Ranking

DionisosFlow™

- Forward Stratigraphic Modeling
- 3D Facies Architecture Reconstruction