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ShalePayFinder MENA-Silurian

GEOS4's exclusive ShalePayFinder Technology

This science-based technology provides the basin modelling parameters needed for predicting charge timing, fluid volume and composition, rapidly and inexpensively.

The petroleum systems of the MENA region are geologically well documented and well understood but when it comes to shale resource plays MENA is a frontier exploration area. Despite major political transitions in some countries, governments are gearing up for bids and amend hydrocarbon laws to unlock their shale resources.

The focus of this ShalePayFinder package is on the liquid and gas-condensate potential of the Silurian in the region. Akin to our ShaleGasFinder packages, published and proprietary data are here collated and summarised to provide a key insight into predicting GOR and phase behaviour.

The GEOS4 ShalePayFinder MENA-Silurian package provides:

- nine representatives of proven and potential candidates for unconventional HC production,
- six representatives of key immature to early mature shales,
- kinetic parameters for timing predictions using slow heating rates,
- Petroleum Type Organofacies for predicting bulk petroleum types,
- 2- and 4-component gas/oil ratio prediction in time and space,
- 14-component physical property/PVT prediction in time and space,
- three representatives of key late liquid to gas mature shales,
- Late Gas Potential evaluation.

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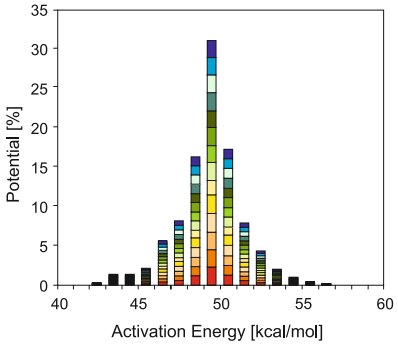
MIDDLE EAST

NORTH AFRICA

CORE SAMPLES FROM FOUR MENA COUNTRIES HAVE BEEN SELECTED FOR THIS PACKAGE

Six samples from the Silurian of MENA representing potential candidates for hydrocarbon production from shales have been analysed following the PhaseKinetic* approach. Rapidly changing phase envelopes in the Late Oil window are given special attention. Additionally three samples have been analysed for Late Liquids and Late Gas potential.

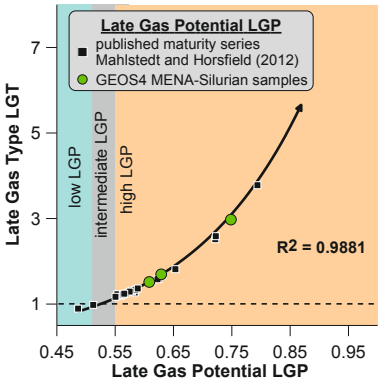


Country	Age	Origin	Depth (m)	T max (°C)	Analysis
Jordan	Silurian	BG 14	33.5	413	PhaseKinetics
Jordan	Silurian	BG 14	37.5	412	PhaseKinetics
Jordan	Silurian	WS-6	1,400	455	Late Liquids and Gas
Libya	Silurian	E1-NC174	2,208.4	432	PhaseKinetics
Libya	Silurian	E1-NC174	2,210.5	433	PhaseKinetics
Libya	Silurian	H29-NC115	1,472	433	PhaseKinetics
Libya	Silurian	H29-NC115	1,485	437	PhaseKinetics
Morocco	Silurian	outcrop	_	overmature	Late Gas
Algeria	Silurian	outcrop	-	overmature	Late Gas

Late Gas Potential

The Late Gas potential of mature source rocks has profound implications for conventional and especially unconventional gas prospects in that significant additional charges of methane can be expected to be generated from neo-formed thermally stable moieties.

We use a rapid closed-system pyrolysis method, characterising the main stage of Late Gas generation under laboratory conditions.



* di Primio, R. and B. Horsfield, 2006, From petroleum type organofacies to hydrocarbon phase prediction: AAPG Bulletin, Vol. 90.

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