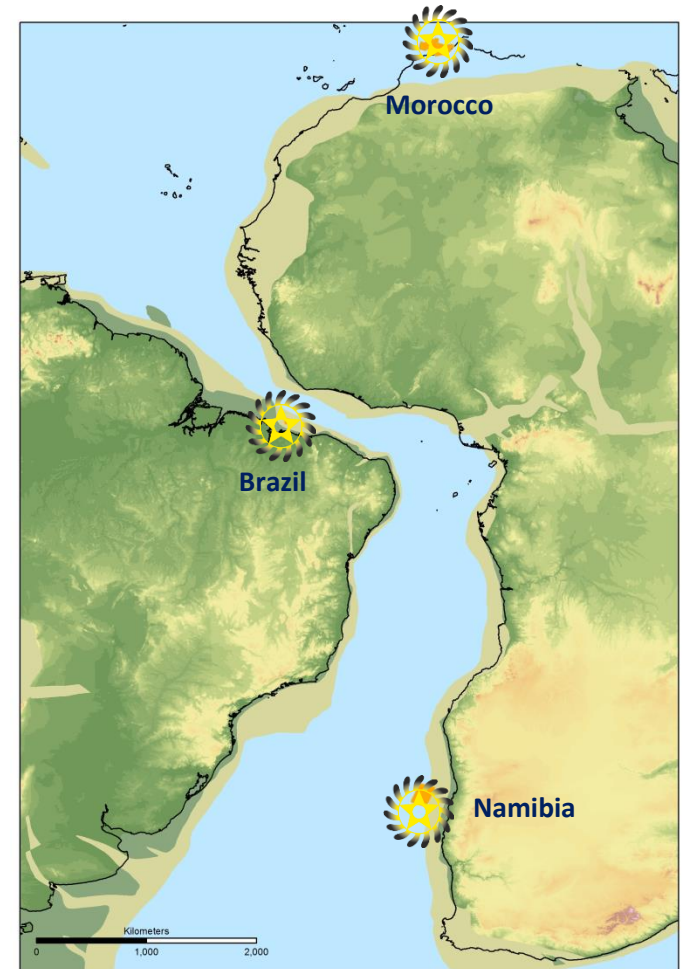


Implications of the Rabat Deep 1 exploration well on the prospectivity of Chariot's portfolio



South Atlantic 100 Ma Reconstruction

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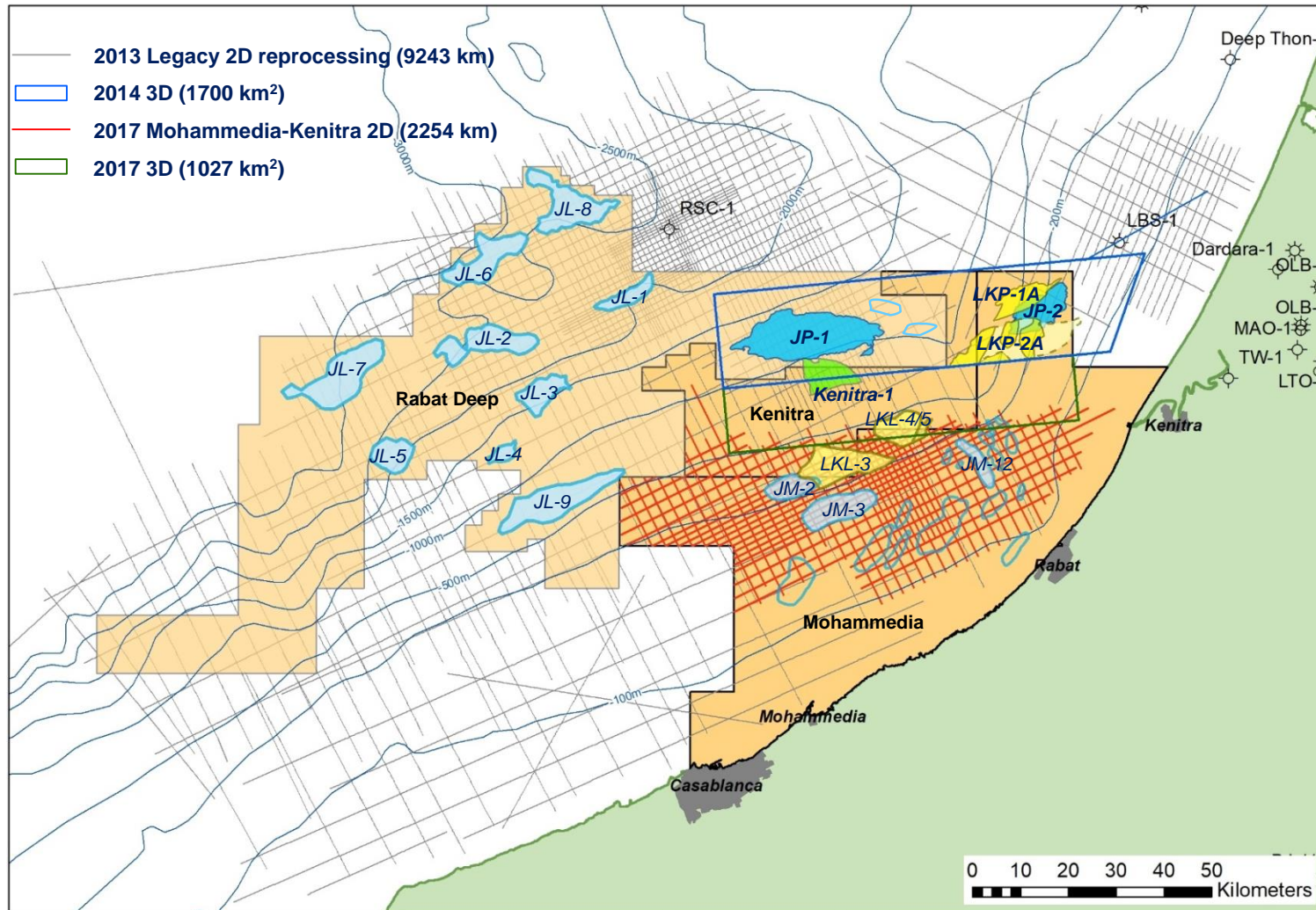
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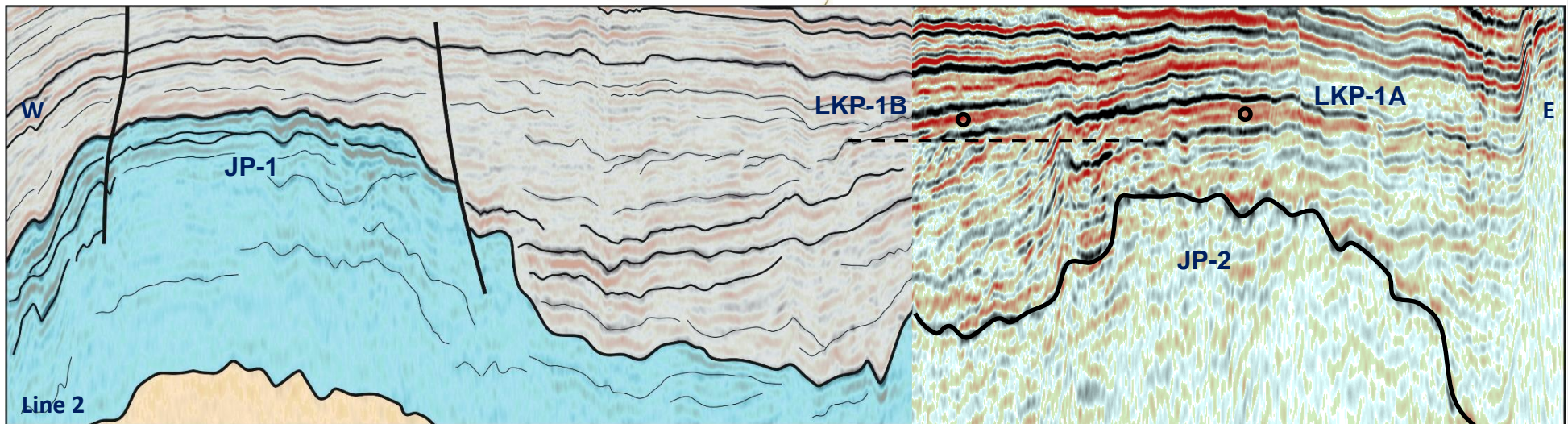
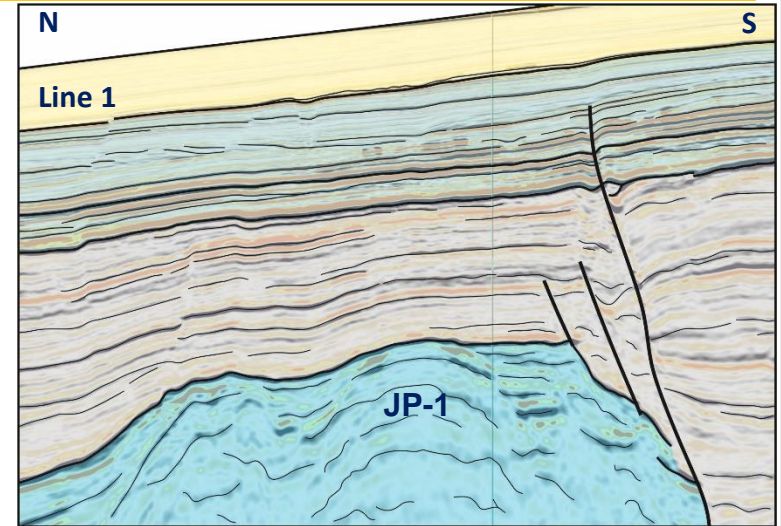
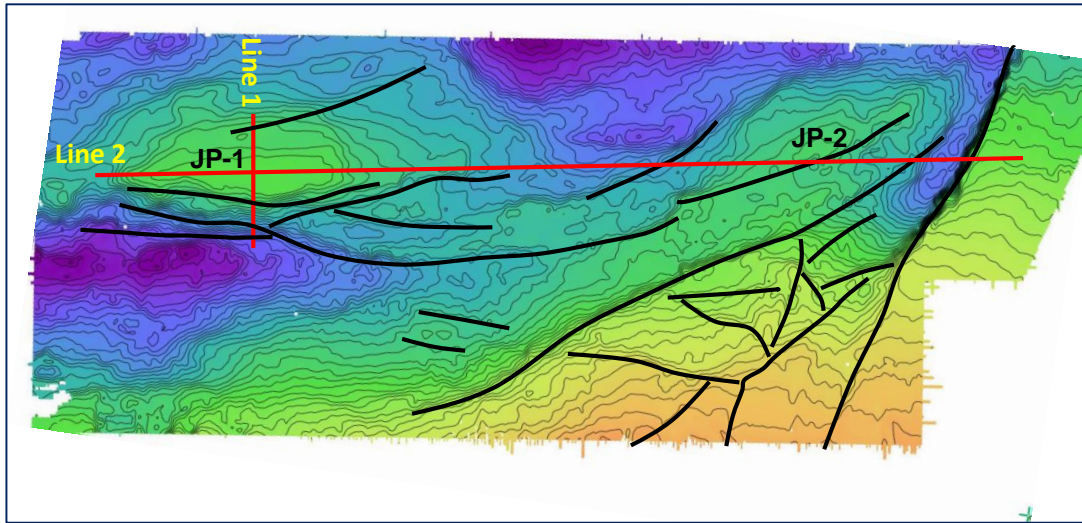
Chariot Morocco Licence Position

Seismic & Wells Database

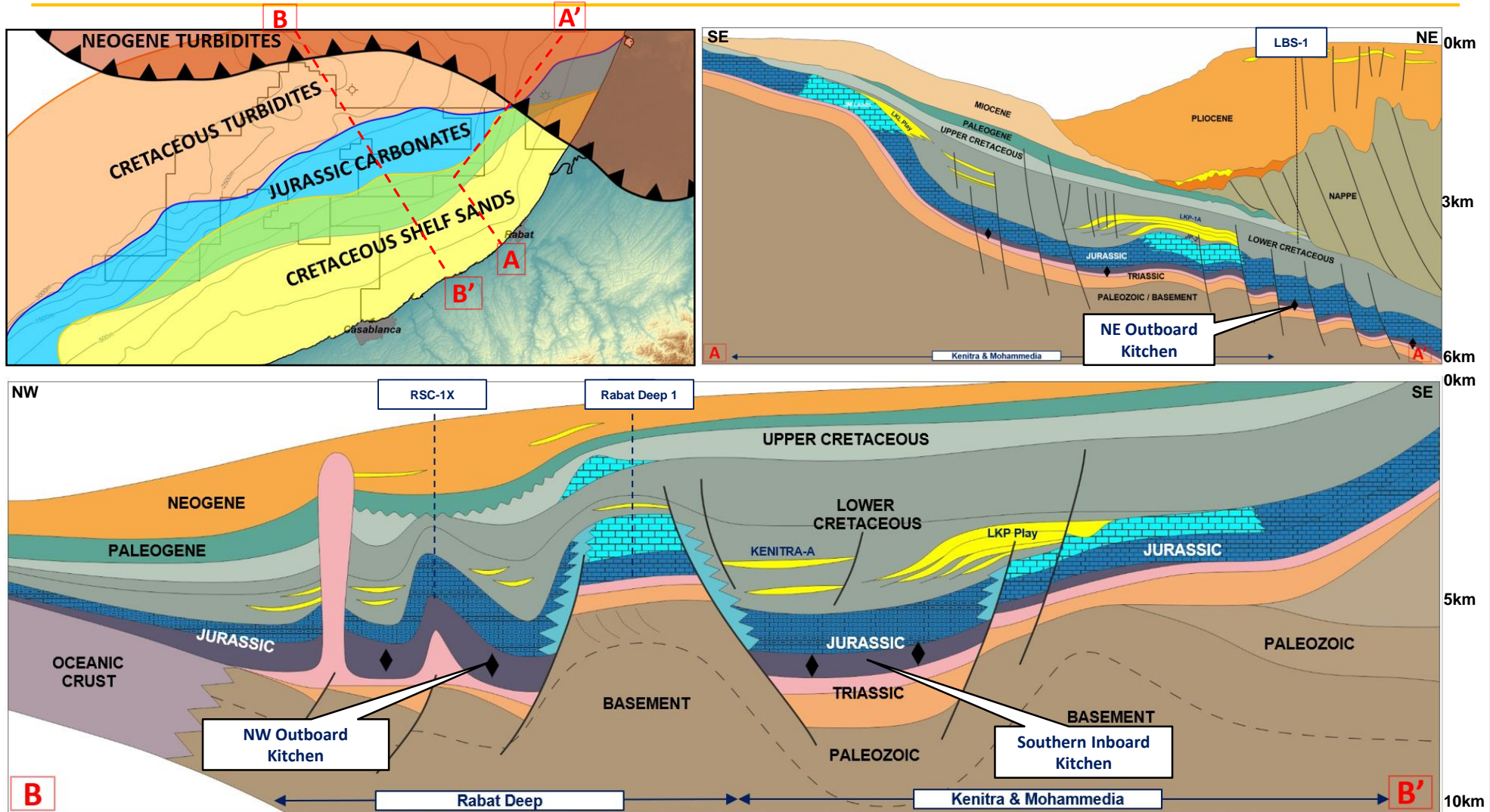
Prospects & Leads



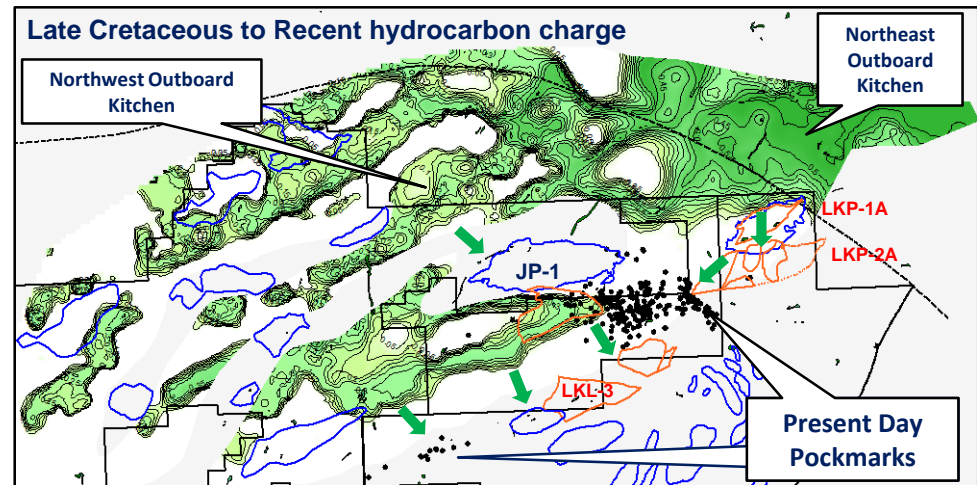
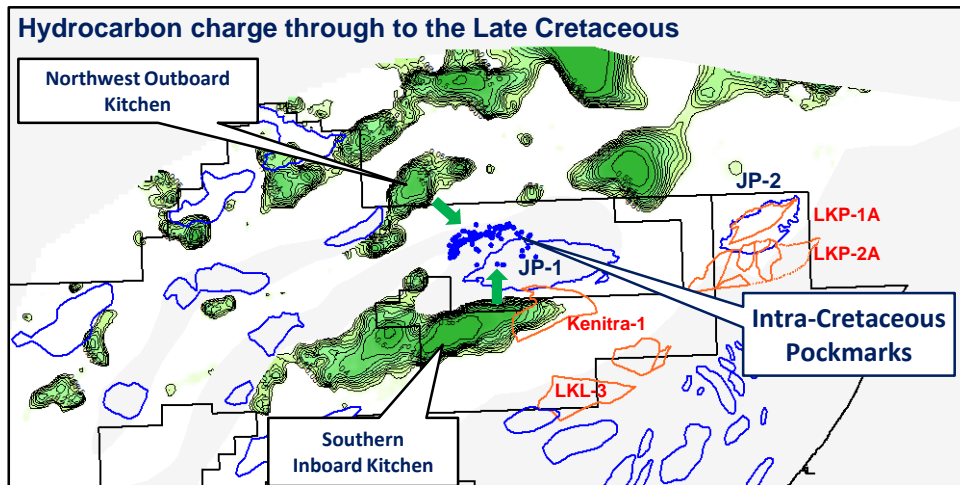
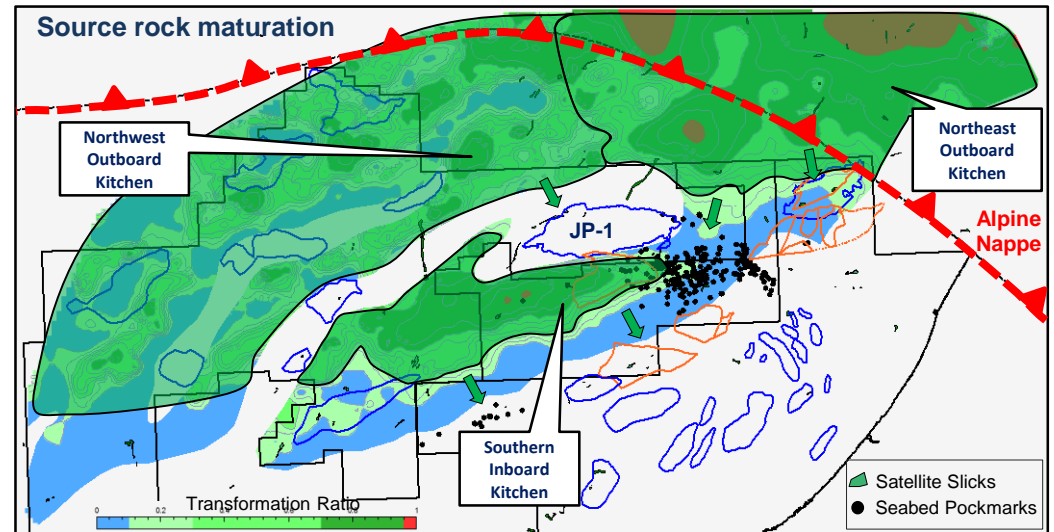
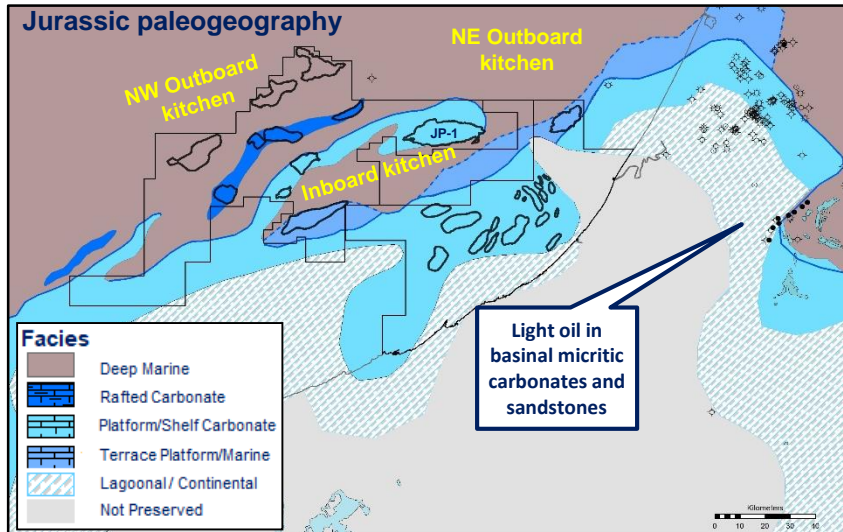
JP-1 structure in relation to the JP-2 structure



Tectonic Elements and Structural Setting of the Region: Mesozoic Passive margin & Alpine Accretionary wedge



Source rock presence, maturation and timing of charge



Source rock presence, maturation and timing of charge

Source implications of the Rabat Deep 1 well:



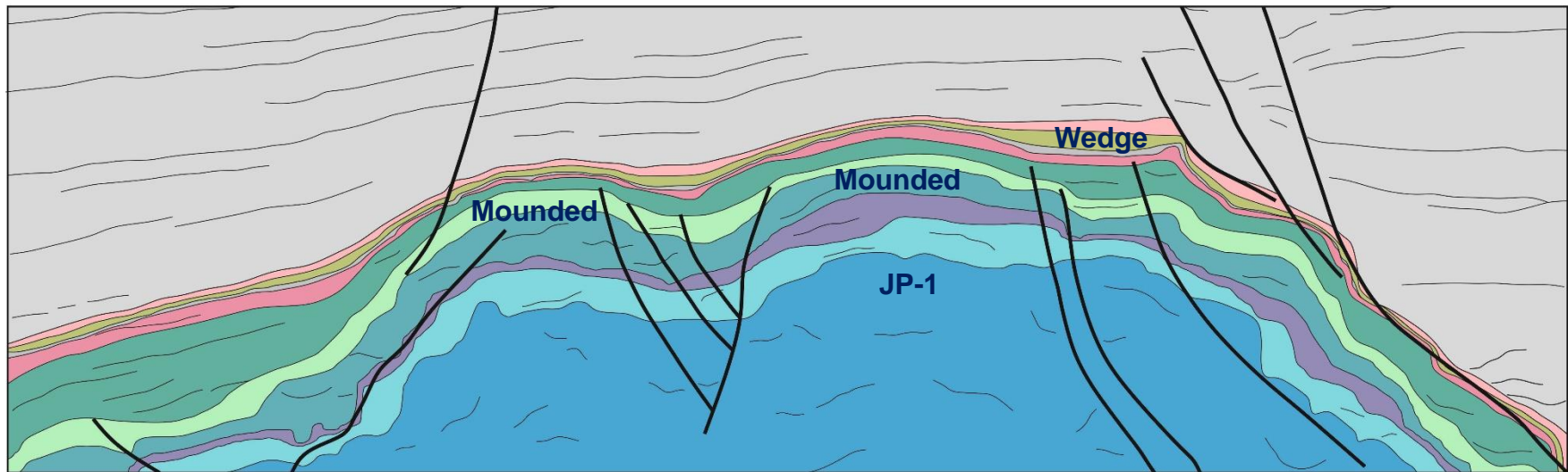
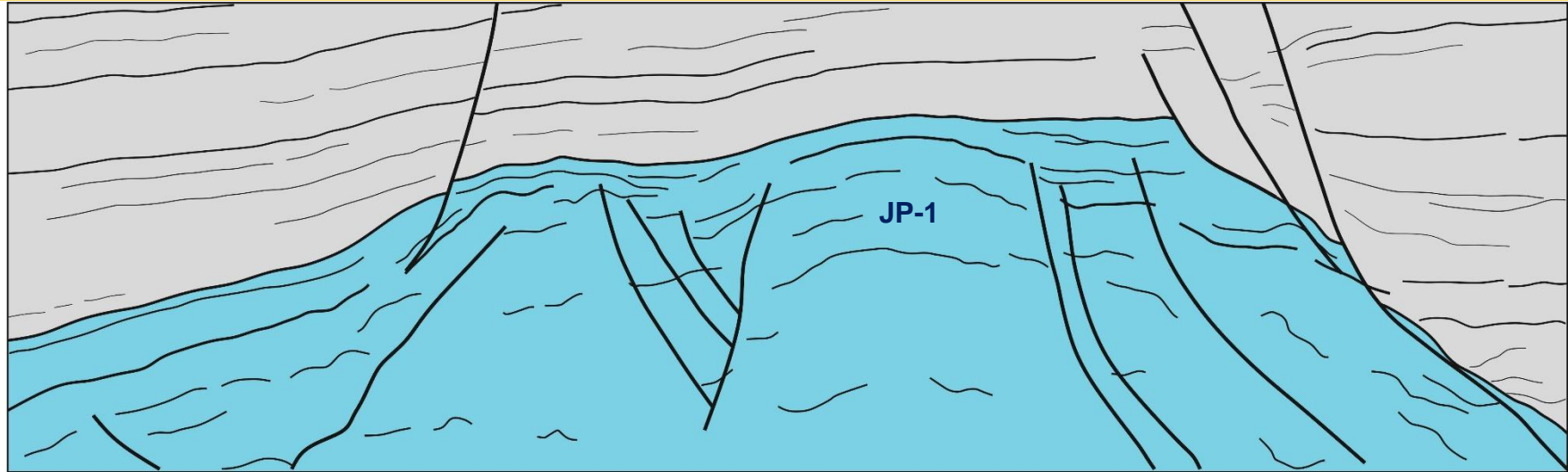
☀ Source presence, maturity and charge:

- ☀ The JP-1 prospect sits adjacent to 3 potential kitchens (Northwest Outboard “NW” kitchen, Northeast Outboard “NE” kitchen & Southern Inboard “S” kitchen) which are modelled to be mature for hydrocarbon generation from the Cretaceous through to Recent.
- ☀ Early hydrocarbon charge is modelled from the NW kitchen into JP-1 (Cretaceous-aged pock-marks), with some potential contribution from the S kitchen.
- ☀ Early hydrocarbon charge modelled from the NW kitchen in to the Rabat Deep permit Jurassic leads (the JL leads).
- ☀ Late hydrocarbon charge modelled from the NW kitchen into JP-1 and the Rabat Deep Jurassic leads (the JL leads).
- ☀ Early and late hydrocarbon charge modelled from the S kitchen into Kenitra-1, the LK prospects and leads, and the Jurassic leads identified on the 2017 2D seismic (the JM leads).
- ☀ Late hydrocarbon charge modelled from the NE kitchen into JP-2 and the LK prospects and leads.

☀ Implications:

- ☀ Hydrocarbons in porous rocks in the Rabat Deep 1 well will support the presence of mature source rocks developed in the NW kitchen which will directly de-risk the Rabat Deep Jurassic leads.
- ☀ The NW and NE kitchens both fall outside the outboard high in similar structural settings so some dependency on the development of source quality rocks is likely to exist.
- ☀ Rabat Deep 1 will not necessarily inform on the capacity of the S kitchen to generate hydrocarbons.

Seismic facies in the primary reservoir target in the JP-1 prospect



Seismic facies in the primary reservoir target in the JP-1 prospect

Reservoir implications of the Rabat Deep 1 well:



☀ Reservoir presence and effectiveness:

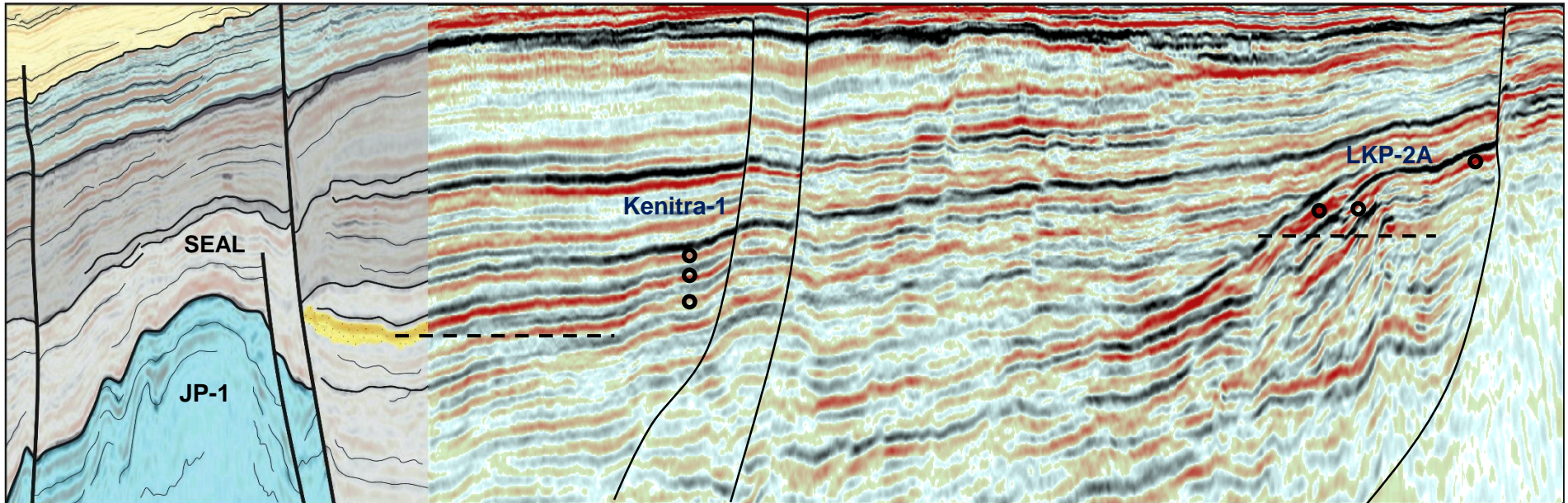
- ☀ The JP-1 prospect displays a number of discrete seismic facies interpreted as part of a carbonate system with platform, mounded build-ups and reworked carbonate shoals.
- ☀ The Rabat Deep 1 well is targeting a number of facies on the southern margin of the JP-1 structure interpreted as reworked carbonates in shoals and progrades in a wedge that sits over mounded build-up facies.
- ☀ The southern margin of the JP-1 structure is bound by a major wrench fault system and a dense network of faults that may allow dolomitising fluids to enhance porosity.
- ☀ The Rabat Deep 1 well will calibrate these seismic facies, determine reservoir presence and potential for dolomitisation.

☀ Implications:

- ☀ New leads identified from the 2017 2D seismic in Mohammedia (the “JM” leads) display mounded build-up facies that will potentially be de-risked by the Rabat Deep 1 well.
- ☀ JP-2 has been interpreted as comprising platform carbonate facies which are not expected to be encountered in the Rabat Deep 1 well. However, these platform carbonates are deposited in a shallow water setting, as is the wedge and the mounds of JP-1, so some dependency on reservoir presence has been assigned.
- ☀ The 2D seismic data over the Jurassic leads in the Rabat Deep permits (the “JL” leads) is of insufficient quality to determine seismic facies but the structural setting of a number of the leads implies deposition in a shallow-water setting so some degree of dependence is likely between reservoir in these leads and the JP-1 prospect.
- ☀ The LK group of prospects and leads and Kenitra-1 are targeting Cretaceous clastic reservoirs that are not expected to be directly de-risked by the drilling of the primary target in the Rabat Deep 1 well. However, there is the possibility that the well may provide important rock property information for predicting Cretaceous reservoir presence.

Seismic facies in the seal unit over the JP-1 prospect

Seal implications:



☀ Seal presence and effectiveness:

- ☀ The crestal, 4-way, dip-closure of the JP-1 prospect requires the Lower Cretaceous to be an effective top seal, which has a seismic facies characterised by low amplitude, parallel continuous reflectors displaying low-angle downlap from east to west across the structure.
- ☀ The southern margin of the JP-1 prospect is bound by a series of west-east trending wrench faults.

☀ Implications:

- ☀ The Lower Cretaceous is required as a potential top seal to all the Jurassic leads and prospects.
- ☀ The Lower Cretaceous sands are the primary target in the Kenitra-1 prospect which lies in the hanging-wall of the fault system which defines the southern boundary of the JP-1 prospect. The Kenitra-1 prospect may be charged through this fault system.

Summary of the implications of the Rabat Deep 1 exploration well on the prospectivity of the surrounding area



Rabat Deep 1 dependency			Hydrocarbon charge	Reservoir presence	Seal Presence
Permit	Prospect	Lead			
Rabat Deep		JL-1	NW hydrocarbon kitchen	Raft	Lower Cretaceous required as top seal
		JL-2		Raft	
		JL-3		Platform	
		JL-4		Platform	
		JL-5		Raft	
		JL-6		Basinal	
		JL-7		Basinal	
		JL-8		Basinal	
		JL-9		Terrace	
Mohammedia		JM-2	S kitchen	Mounded carbonate facies	Cretaceous clastic reservoir with intra-formational seal
		JM-3		Mounded carbonate facies	
		JM-12		Mounded carbonate facies	
		JP-2	NE hydrocarbon kitchen	Terrace	
		LKP-1a		Cretaceous clastic reservoir	
		LKP-1b			
		LKP-2a			
Kenitra		LKP-2b	S kitchen		Cretaceous clastic reservoir
		Kenitra-1			
		LKL-3			
		LKL-4			
		LKL-5			

