

# Extending the Mozambique success into the COMOROS



**Comoros Blocks 35-36-37**

*London, 3<sup>rd</sup> March 2016*



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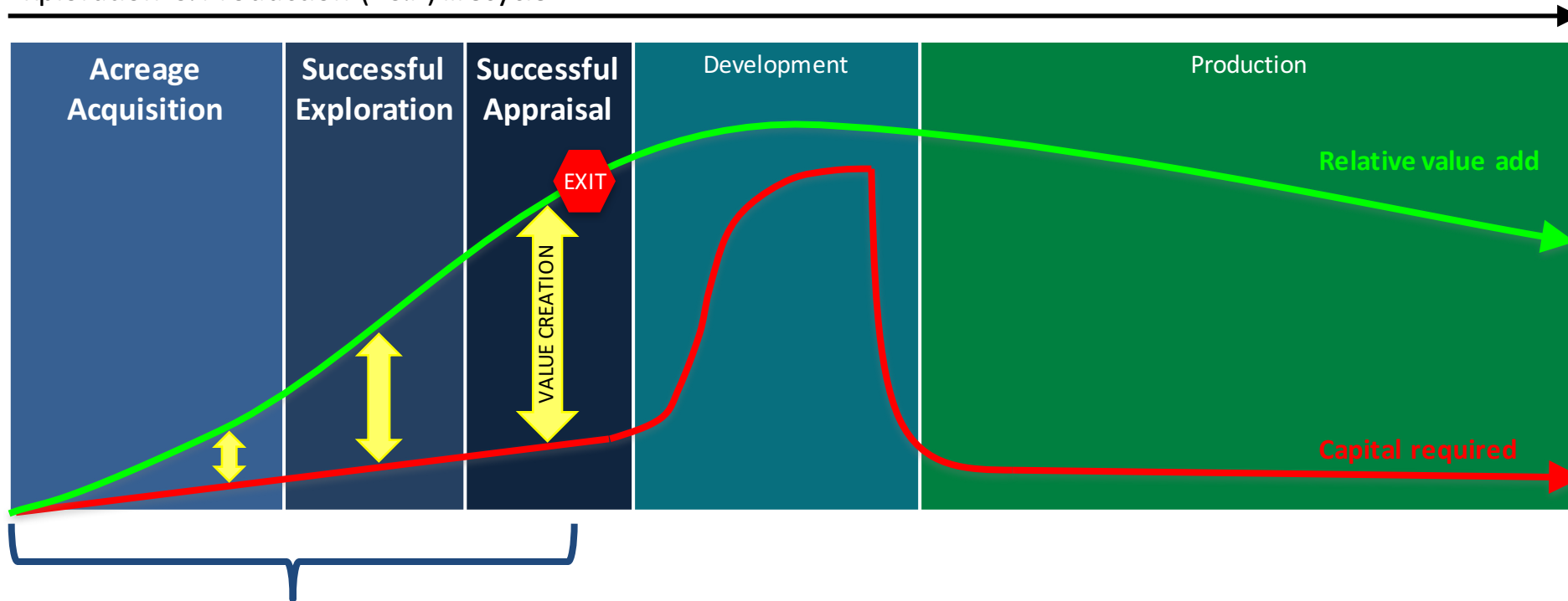
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## Exploration & Production (E&P) lifecycle



**Strategy: low expenditure, high value add**

### FOCUS ON EARLY STAGES OF E&P LIFECYCLE

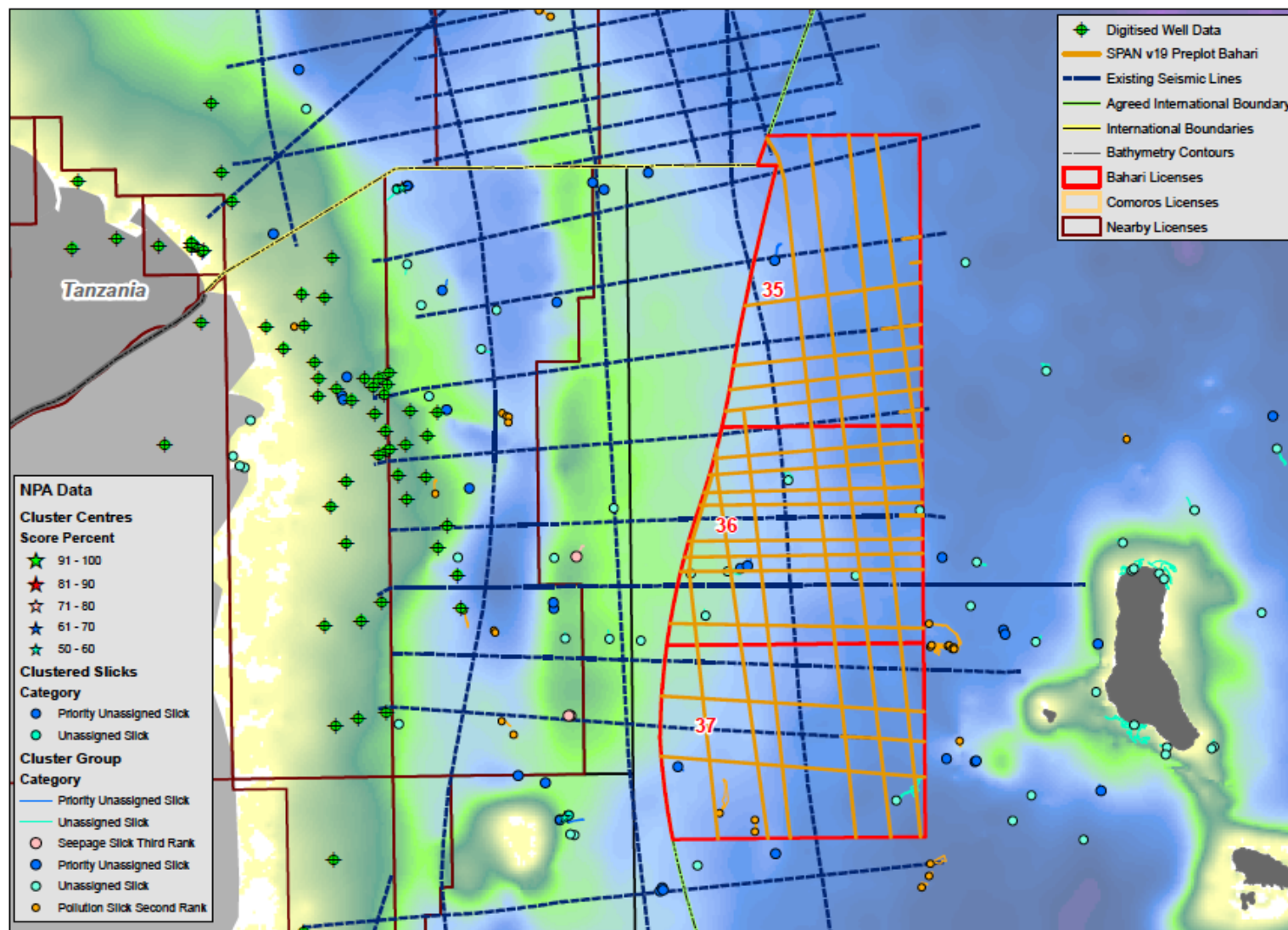
- Focus on geology, not geography
- High-impact, deep-water acreage
- Young, emerging basins
- Non-operating stakes
- Reliable, proven partners/operators

### SUCCESSFULL EXPLORATION & APPRAISAL

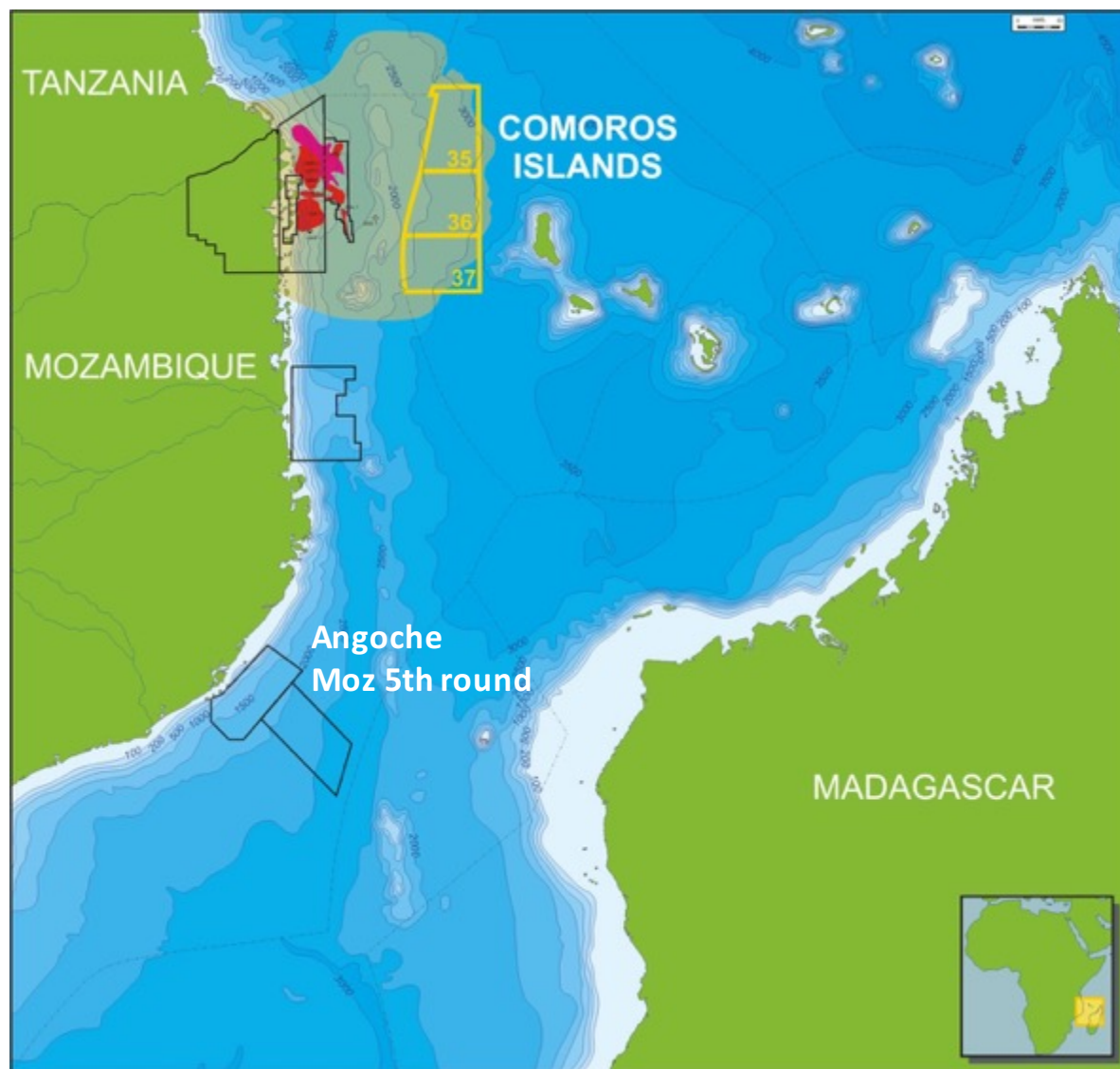
- Aim for portfolio of 5+ geologically independent assets
- De-risk with 3D seismic in 2015-2017
- Ensure full funding for the entire drilling campaign starting 2017+

### TIMELY EXIT

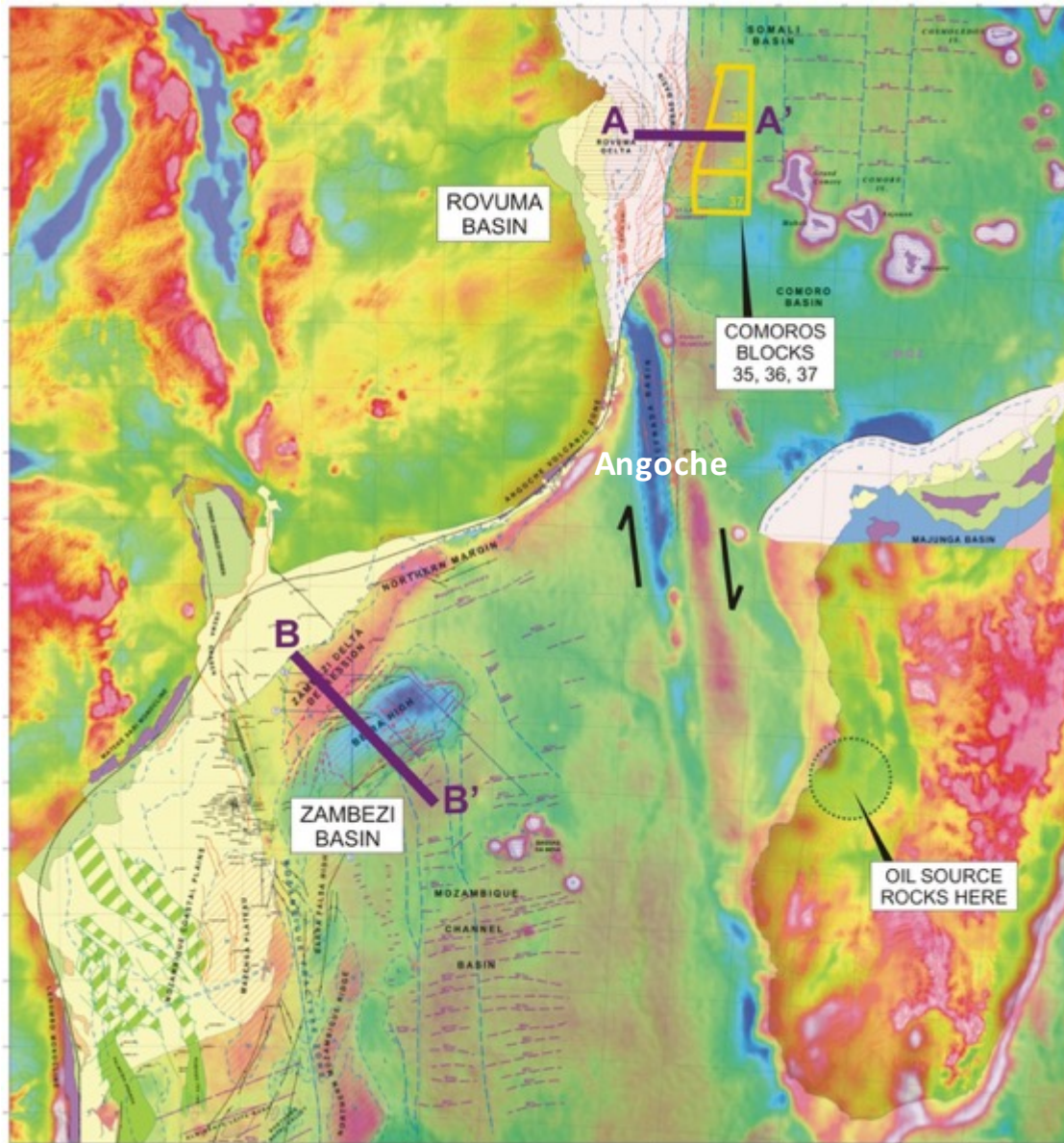
- After successful exploration/appraisal, return value to shareholders through IPO or asset/company sale

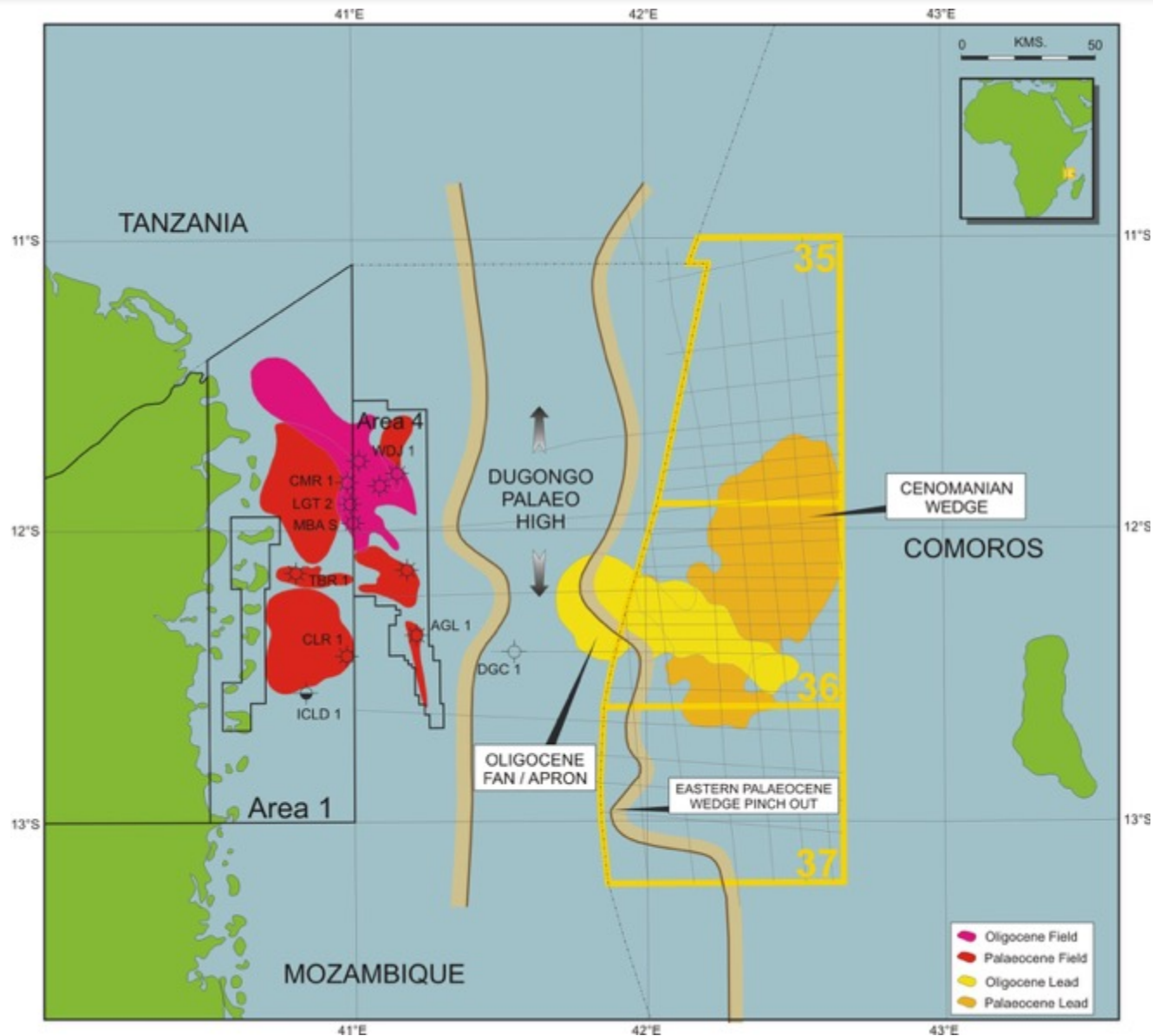




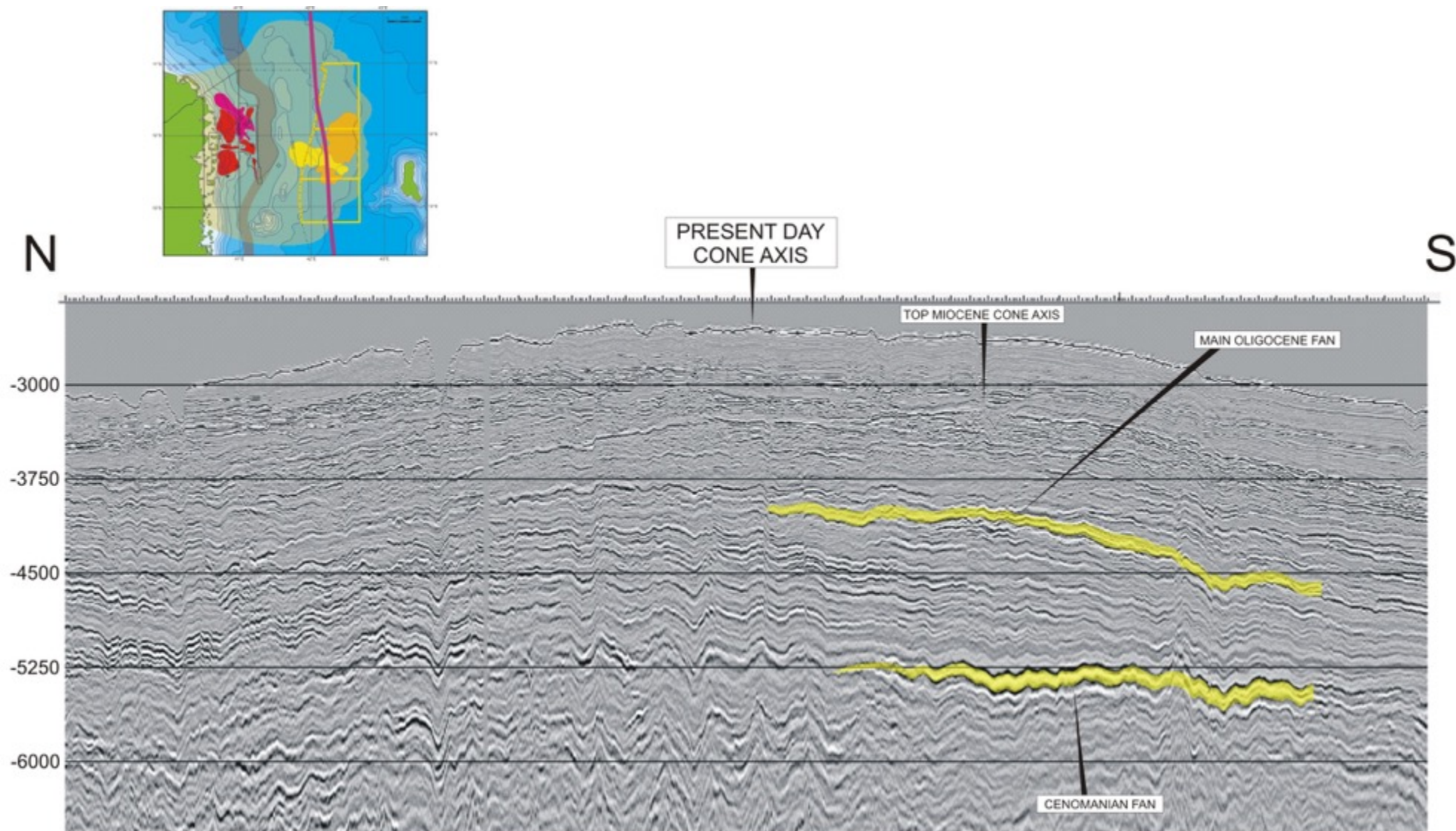


- Blocks 35, 36, 37
- 18,000 km<sup>2</sup> or 4.4 mln acres (half the size of the Netherlands)
- Adjacent to 145+ Tcf recoverable gas discovered by Anadarko/ENI in areas 1-4 offshore Mozambique
- Partnership:
  - Discover Exploration (60%)
  - Bahari Resources (40%)
- PSC fully ratified in Q1 2014
- Attractive terms - Work commitments fulfilled until 2018

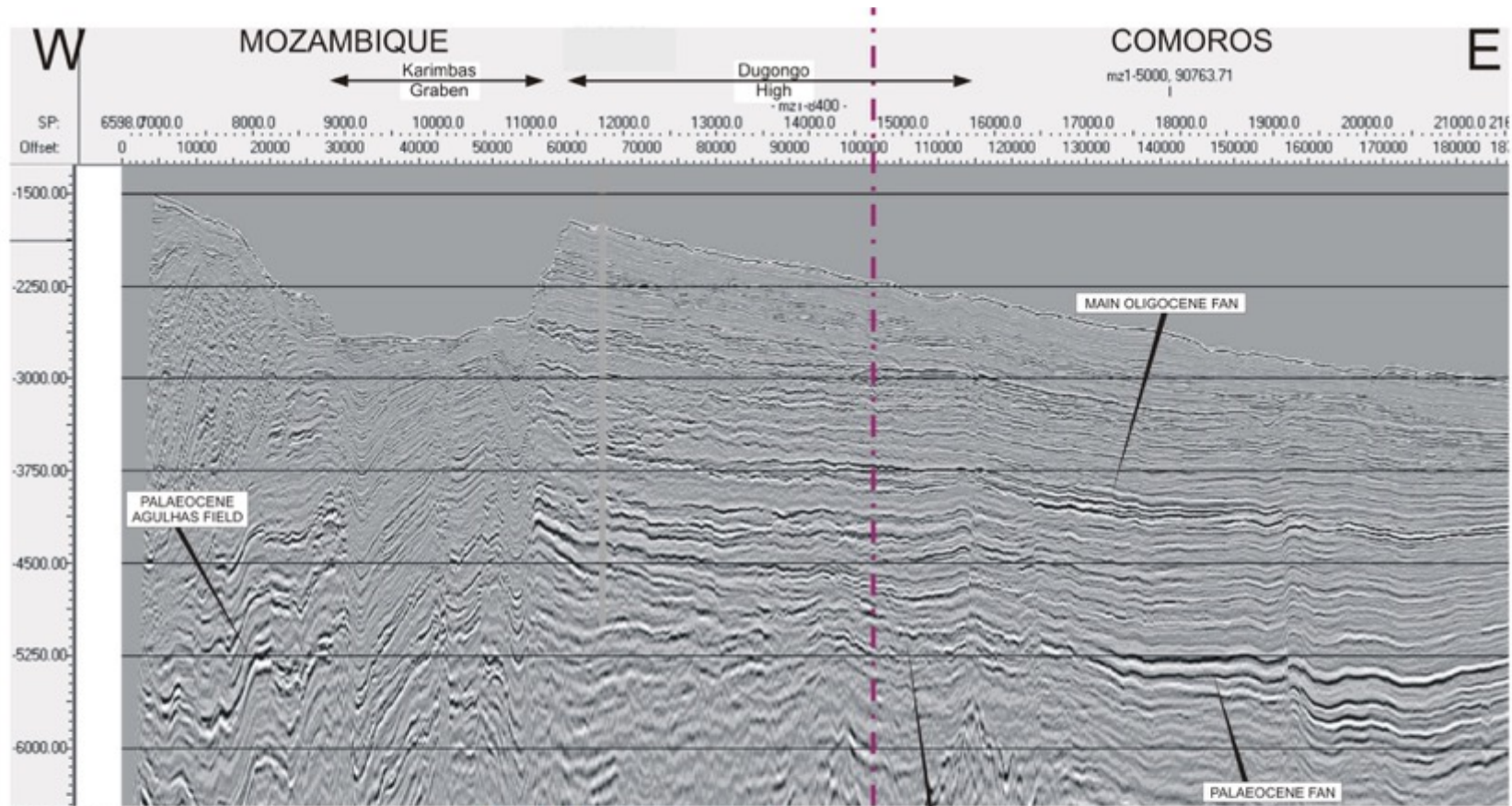










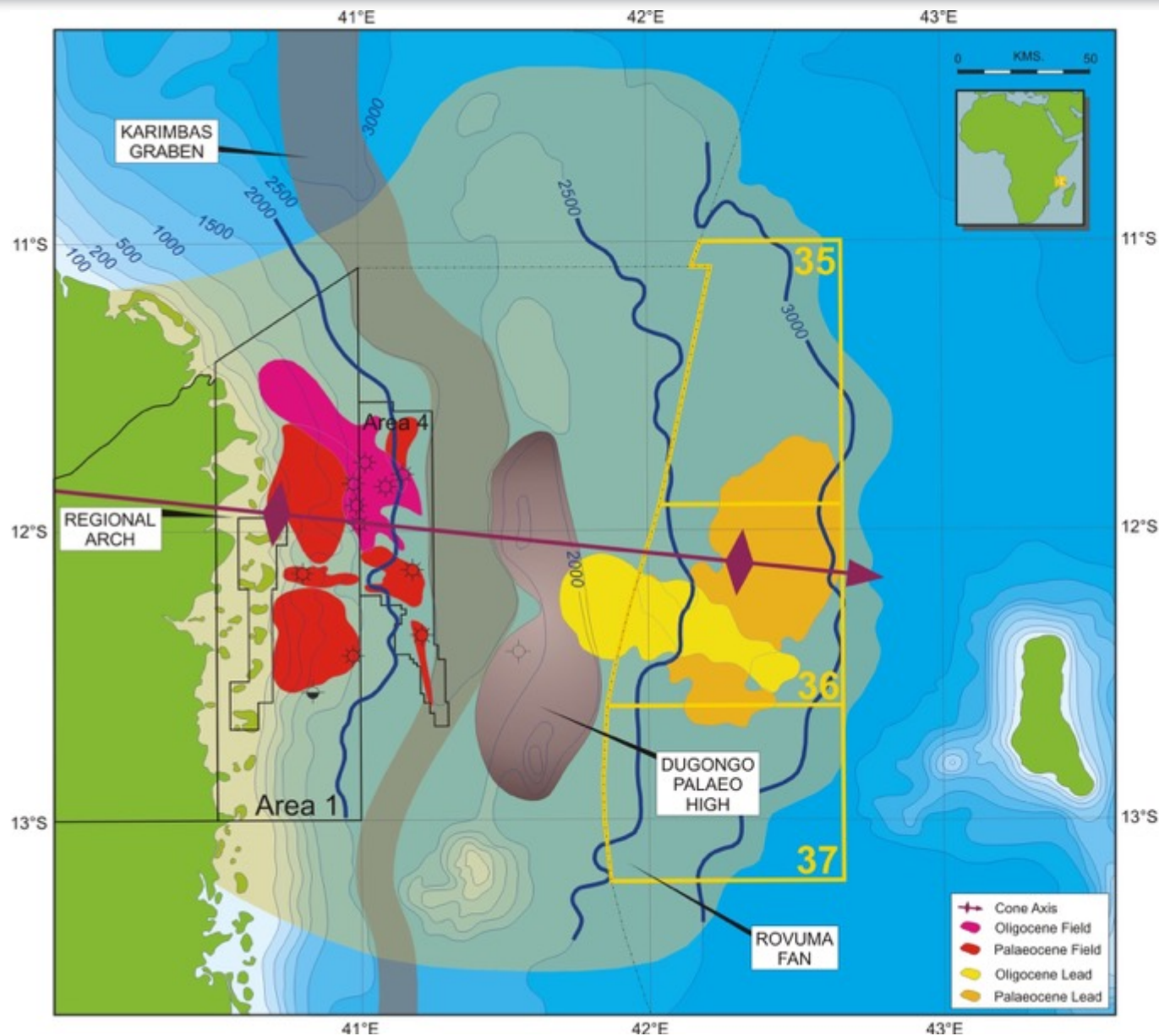


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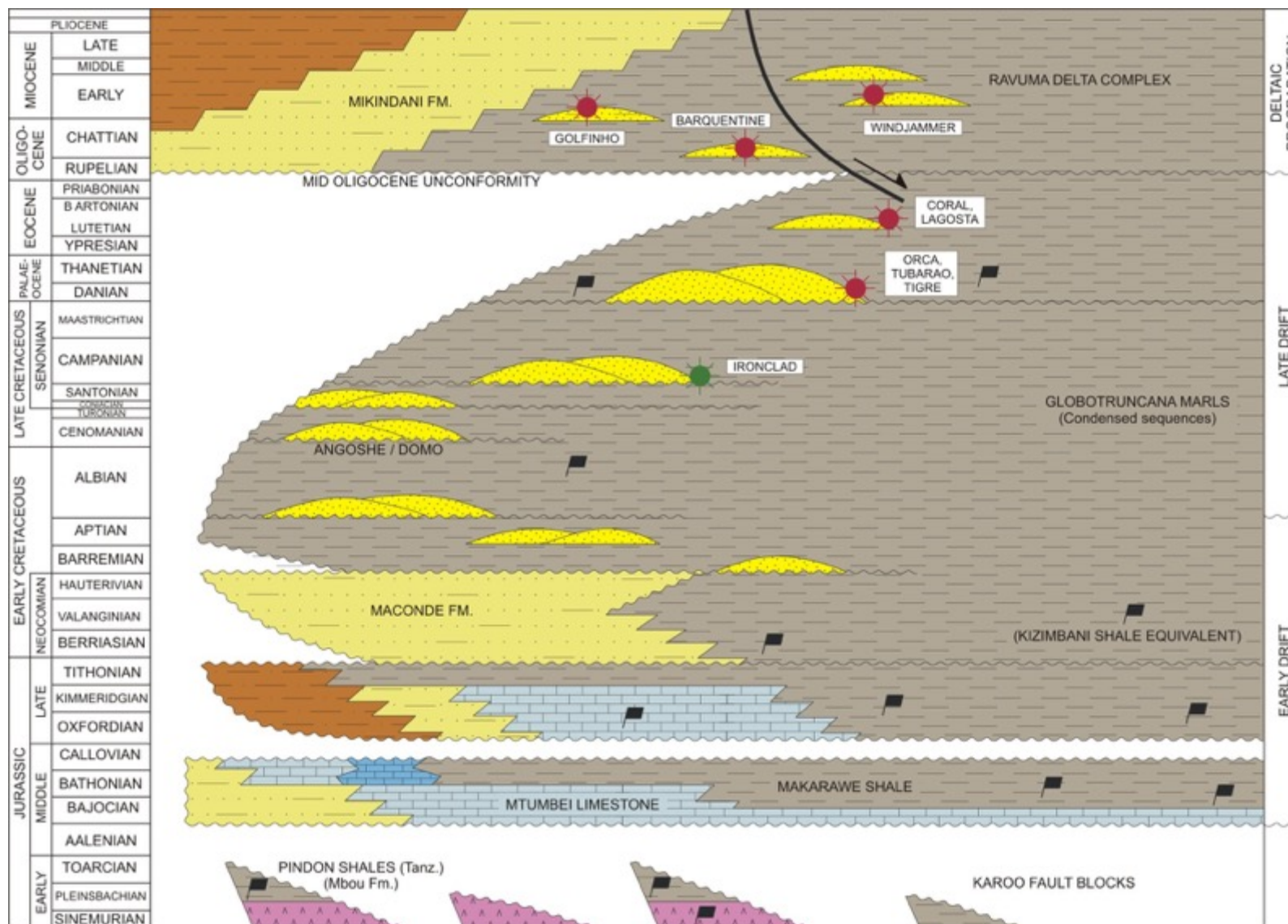
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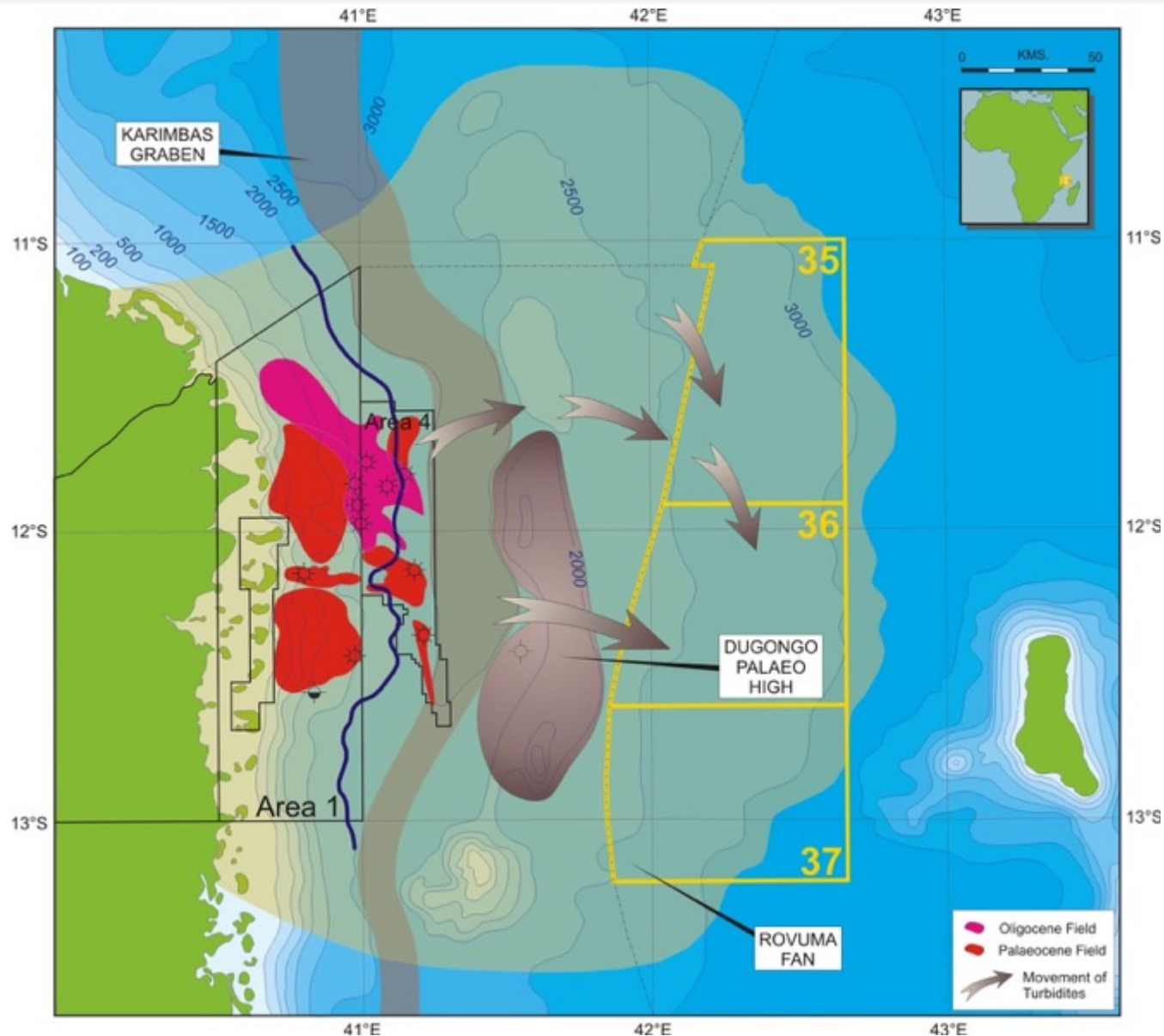
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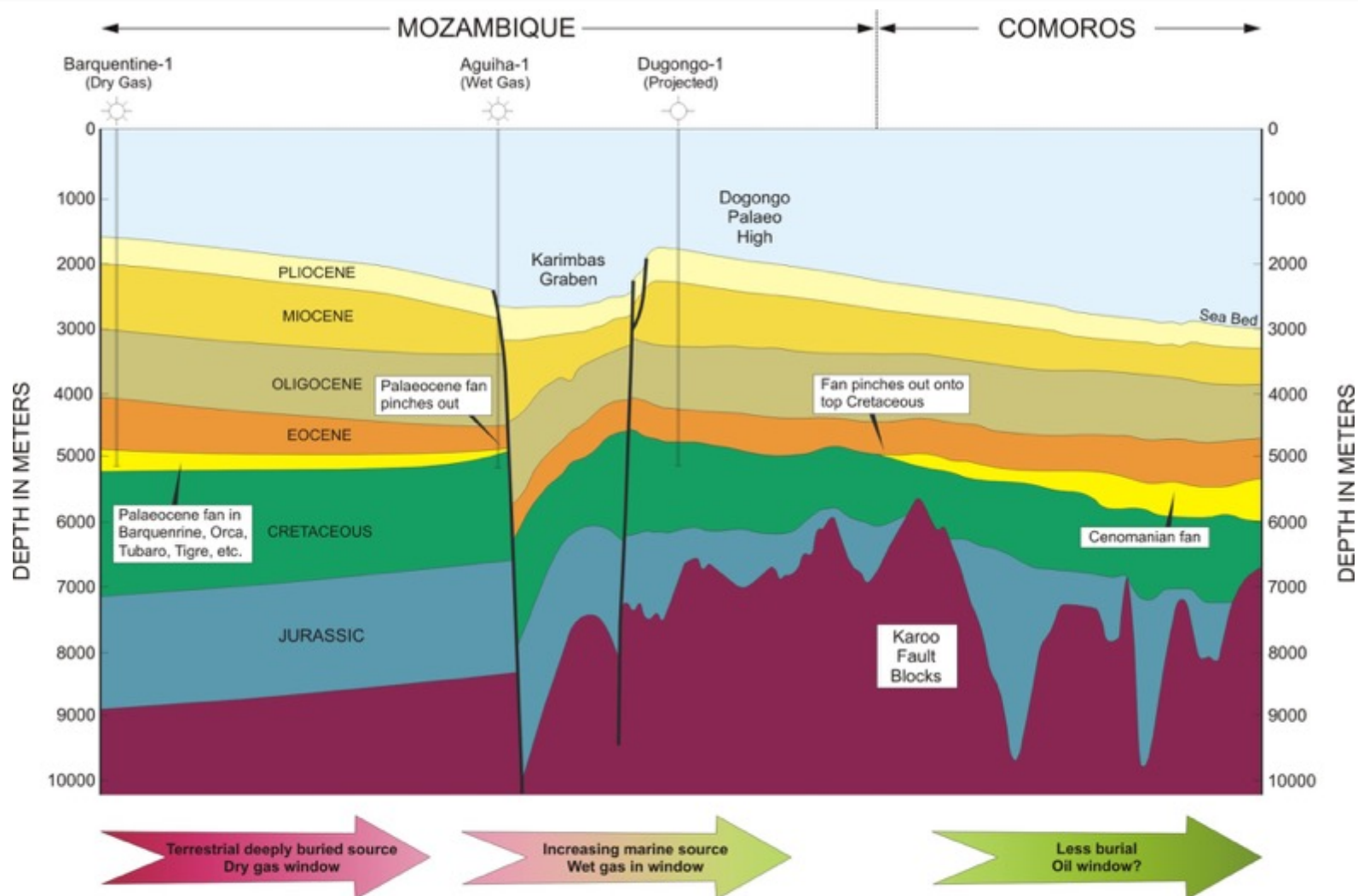
- Extensive turbidite reservoirs (Palaeocene, Eocene and Oligocene)
- Hydrocarbons trapped near crest of regional arch and by pinch-out on the Dugongo high
- Source rocks: Jurassic, Upper Cretaceous and Early Tertiary



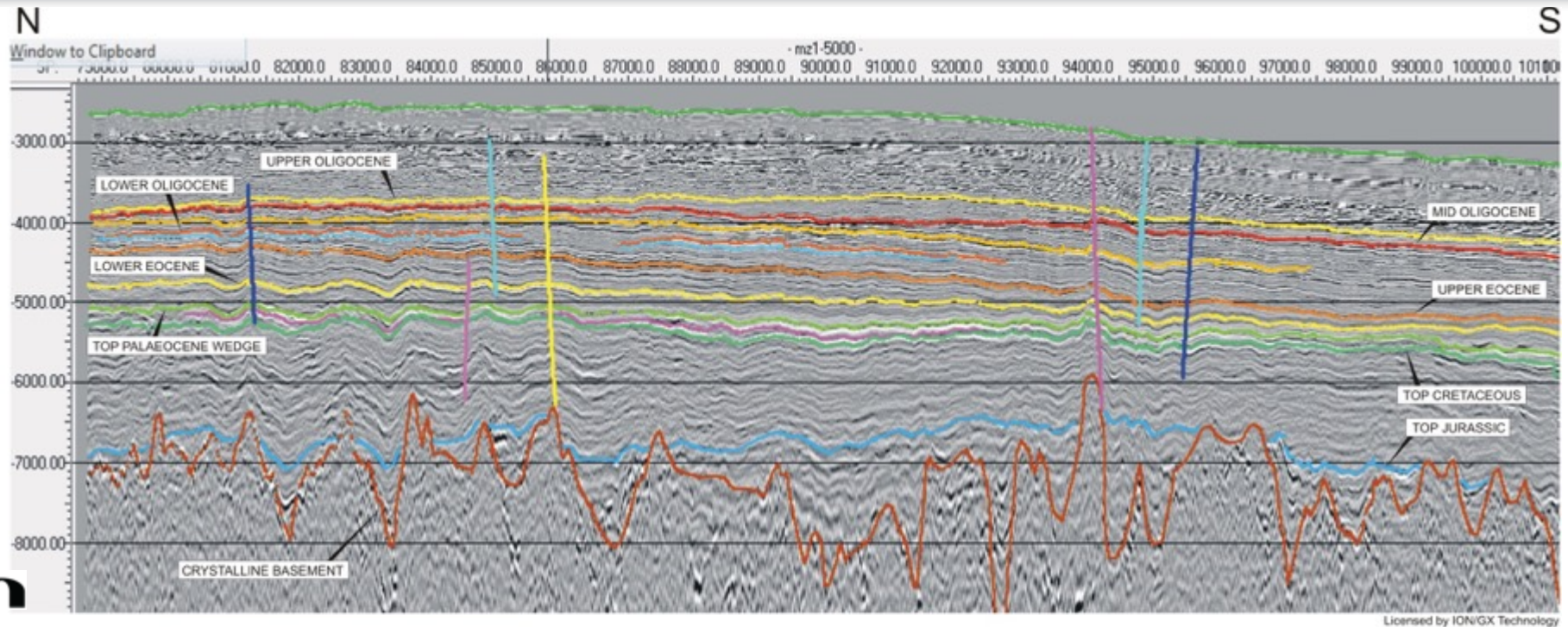




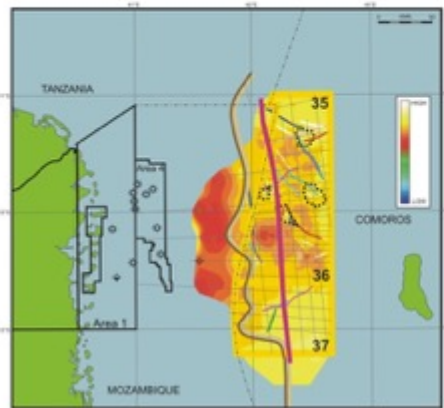




**PALAEOCENE INTERVAL IS ONLAPPING BOTH FLANKS  
OF A PRE-EXISTING REGIONAL ANTICLINE**



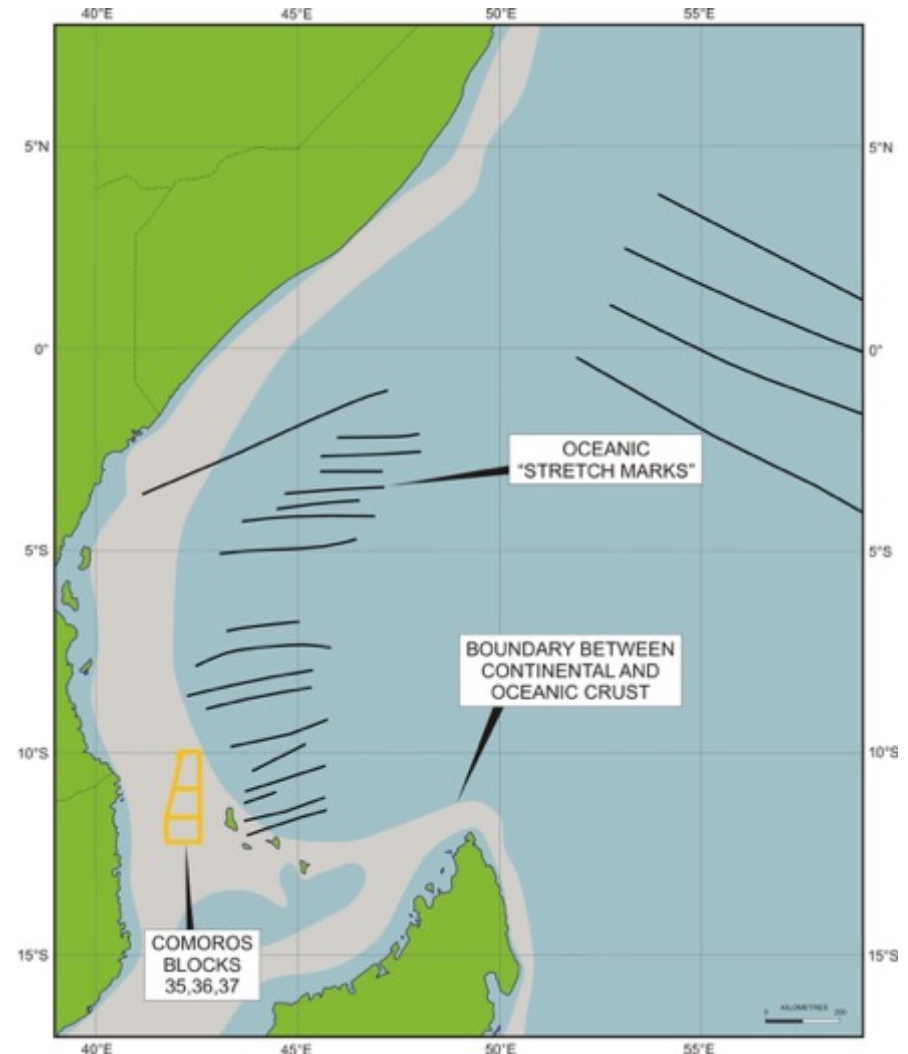
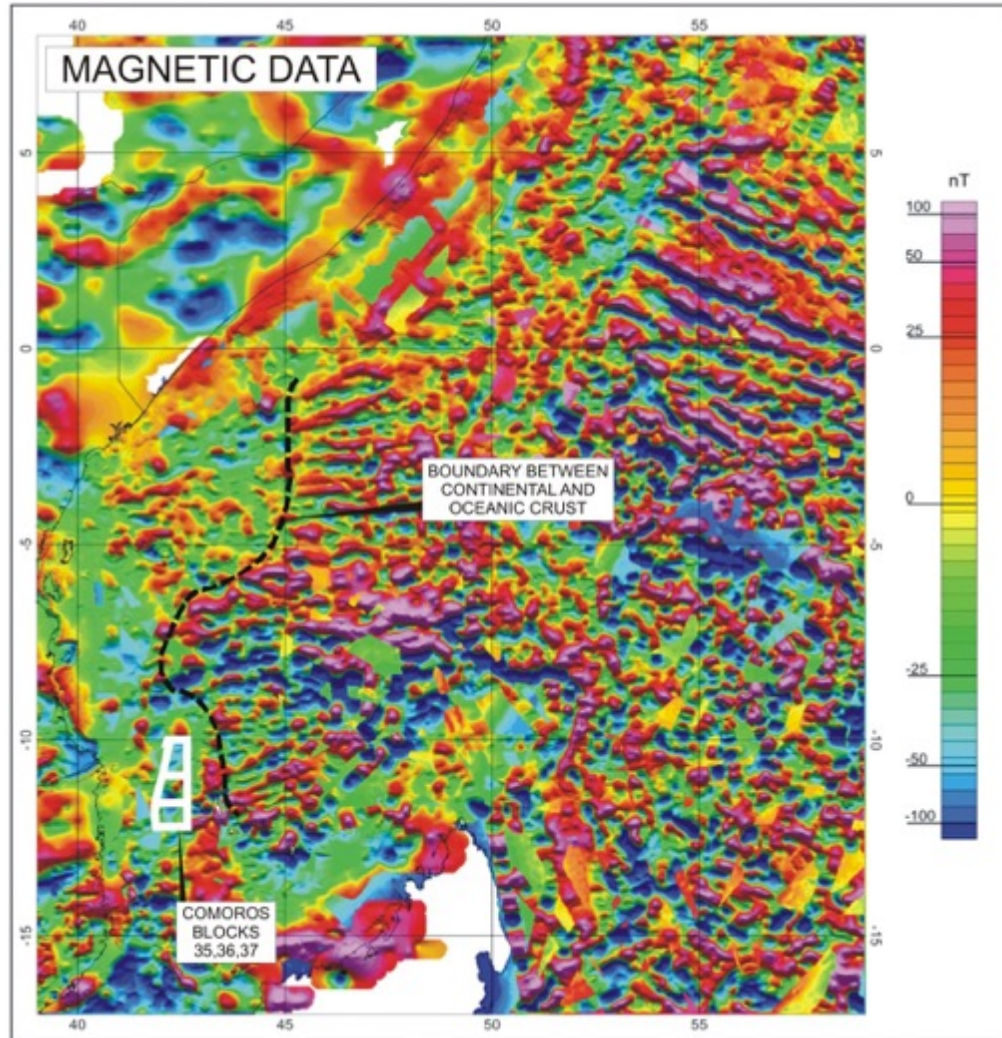
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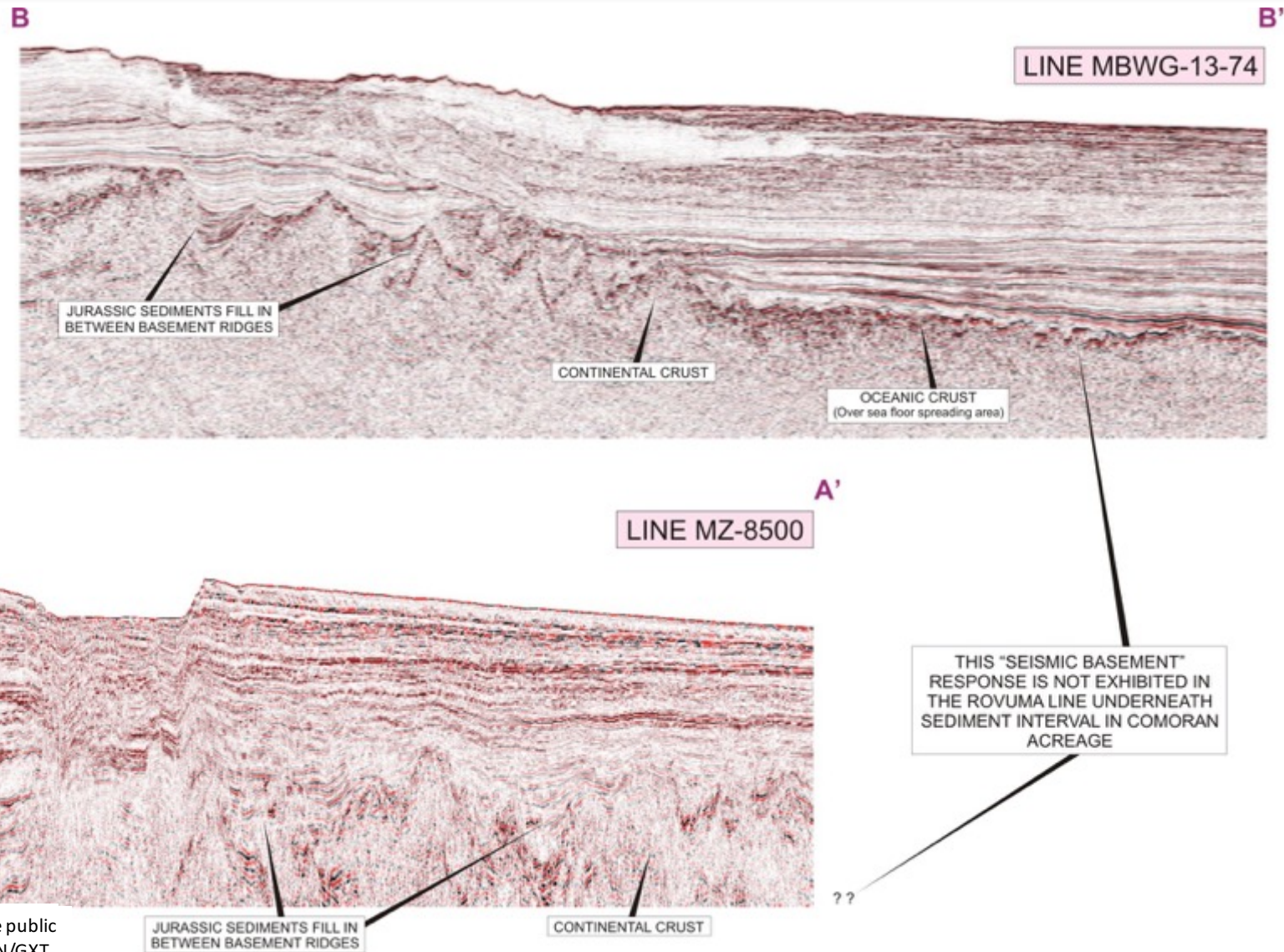


Six plays have been identified:

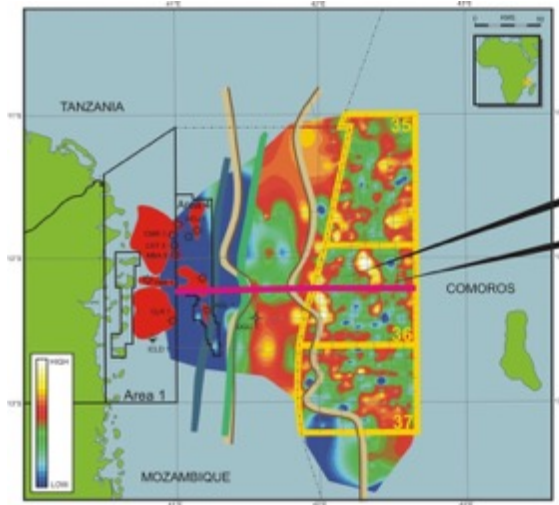
- Palaeocene or Mid Cretaceous wedge
- Lower Eocene beach and fans
- Upper Eocene channels
- Lower Oligocene fan system (Oligo 2)
- Mid Oligocene fans and subcrops (Oligo 1)
- Upper Oligocene channels



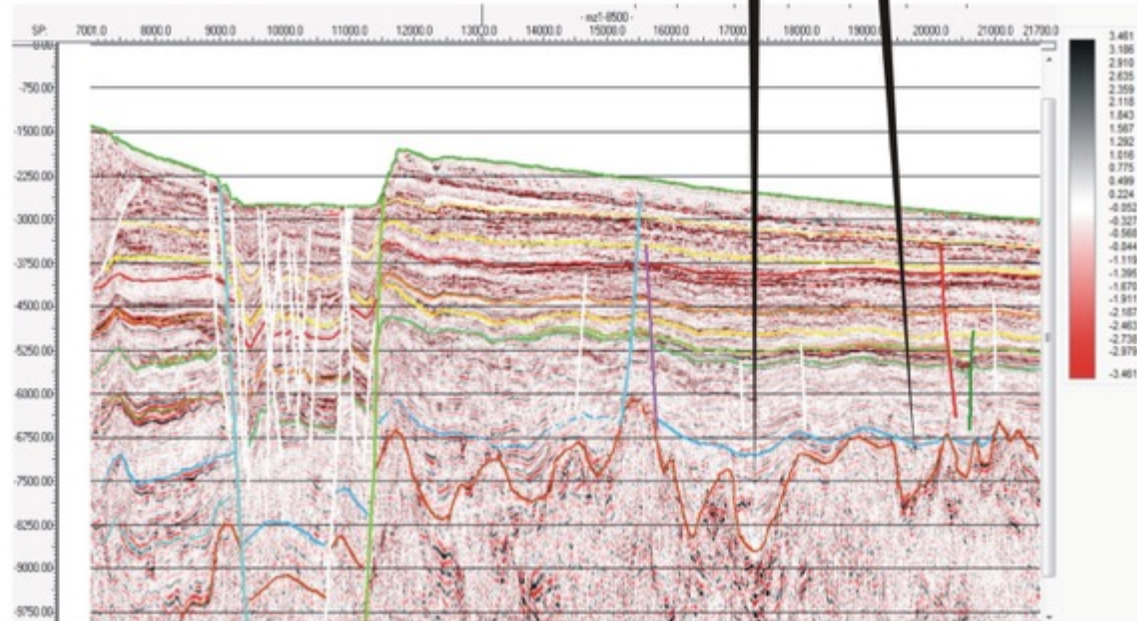








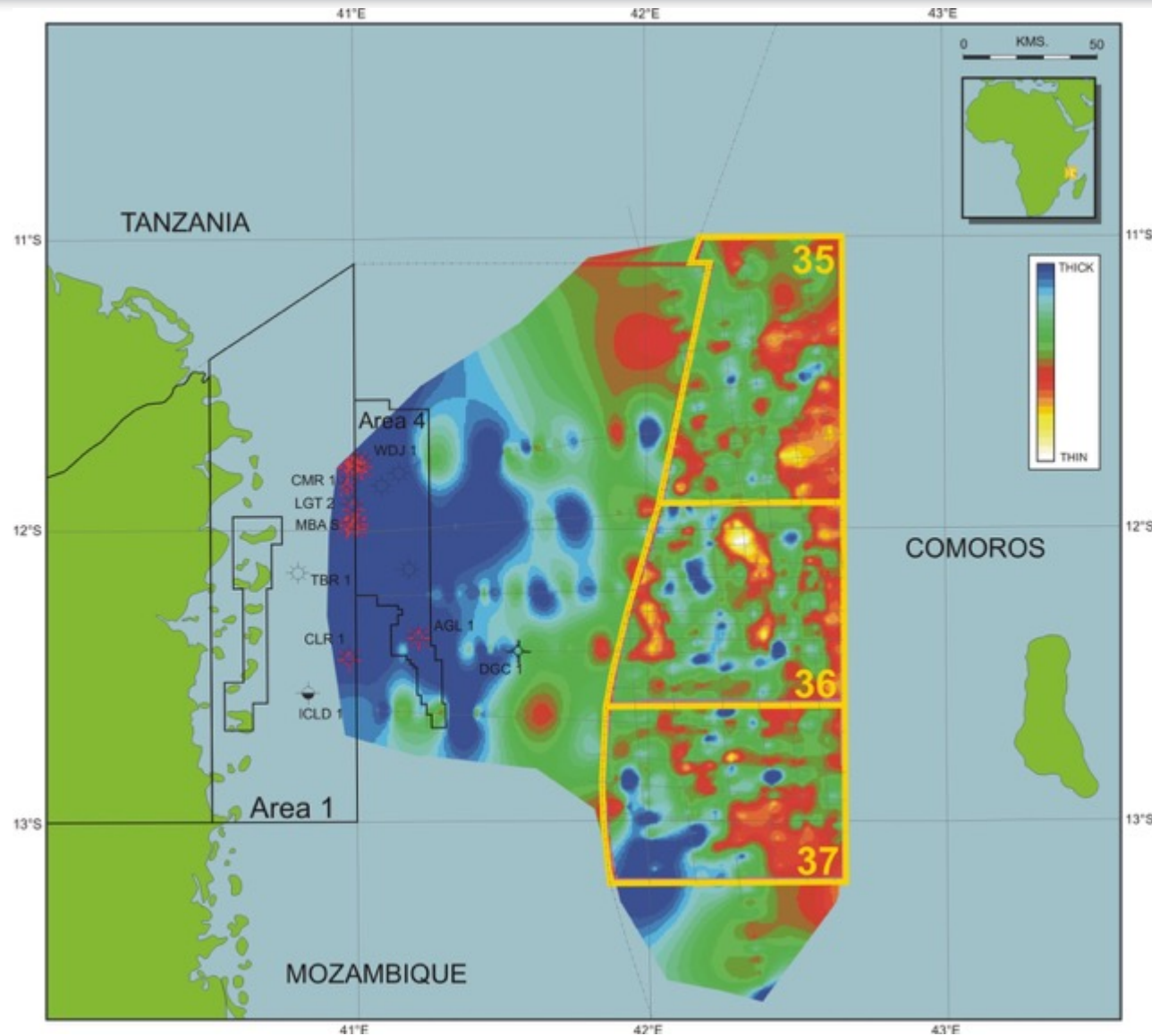
Similarly, at eastern side of the Kerimbass graben, Jurassic sediments are likely to fill in the space available in between basement ridges.



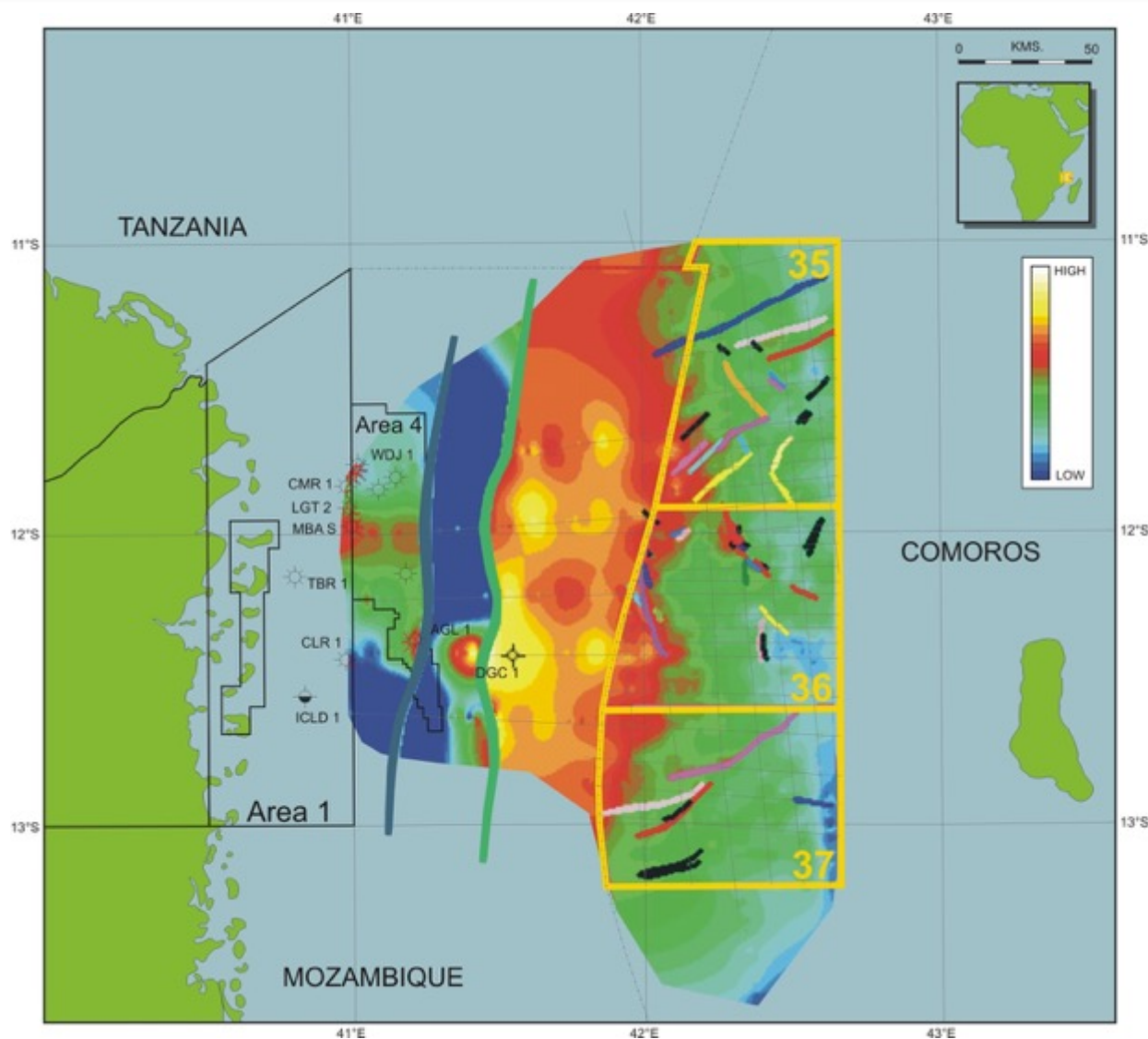
There are four reasons to believe that the three **Comoroian licences are located over the continental crust**:

- Areas over oceanic crust are characterized by the existence of paleomagnetic anomalies that enable dating of the associated sea floor spreading; our licences are located off these areas.
- Where these anomalies are present, the crust is characterized by E-W and NW-SE trending magnetic lineaments that are well exhibited on the EMAG 2 map: our licences are located off these lineaments.
- The basement grain is characterized by two major fault trends (NW-SE and NE-SW) quite similar to those exhibited in the northern part of the Rovuma basin, onshore Tanzania, where the presence of Jurassic/Permo-Triassic source sediments and continental crust is proven by wells.
- In the Zambezi basin, the lines shot in 2013 by WesternGeco show that oceanic and continental crusts can be easily discriminated by their seismic responses: the basement in our Comoros acreage is a look alike of the continental crust exhibited on the outer edge of the Beira High.





If the Cretaceous source is mature in our acreage, this isopach map shows that up to 3000m of source sediments can be expected around the main prospective structures.

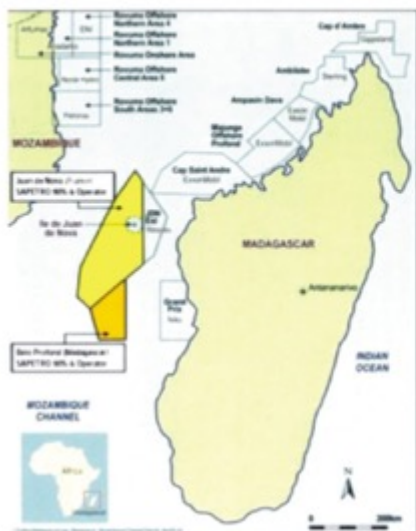


Depth to top Cretaceous ranges between 5000m and 5800m in designated blocks.

The edge of red coloured area is the 5200m contour, which matches a significant hinge line: this hinge is more or less the western limit of overlying prospective Palaeocene play.

West of the hinge line, a N-S trending syncline isolates a set of four way dip closures from the fault dependant closures at the eastern edge of the Kerimbass graben.





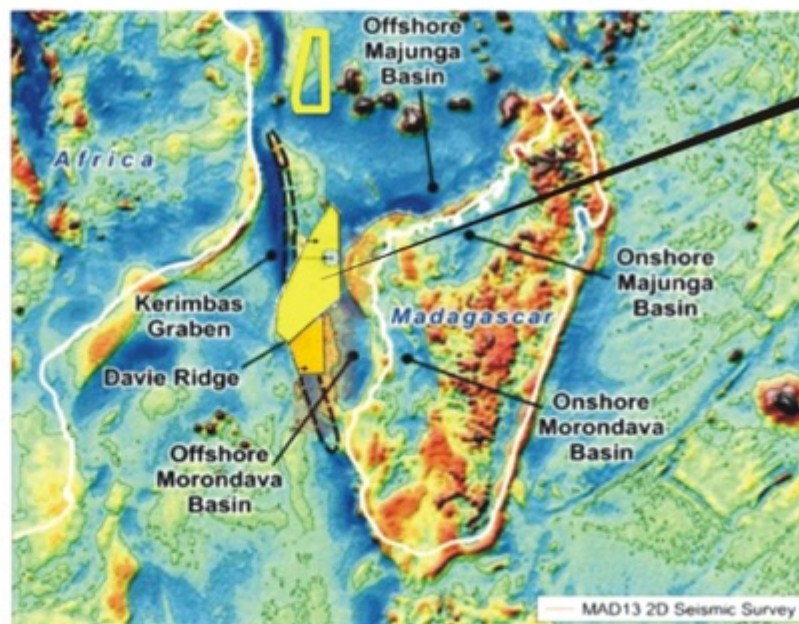
The Juan de Nova permit is situated deep offshore in French territory in the Mozambique channel, adjacent to ENI and Anadarko's discoveries in the Rovuma Basin

Belo Profond is adjacent to the Juan de Nova permit and **extends the plays to the south along the Davie Fracture zone**

## Juan de Nova & Belo Profond: Asset Overview

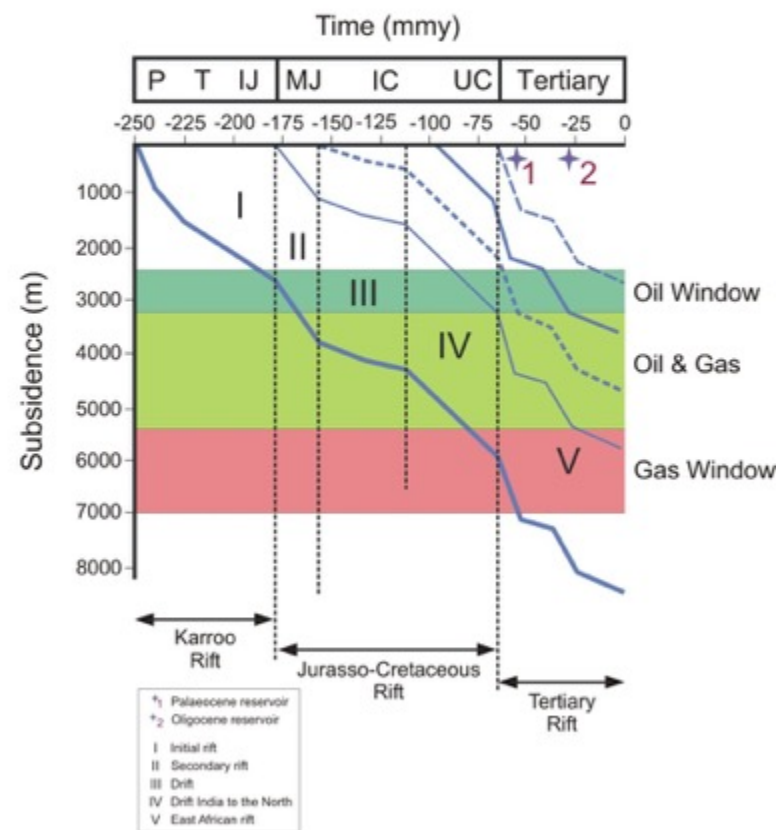
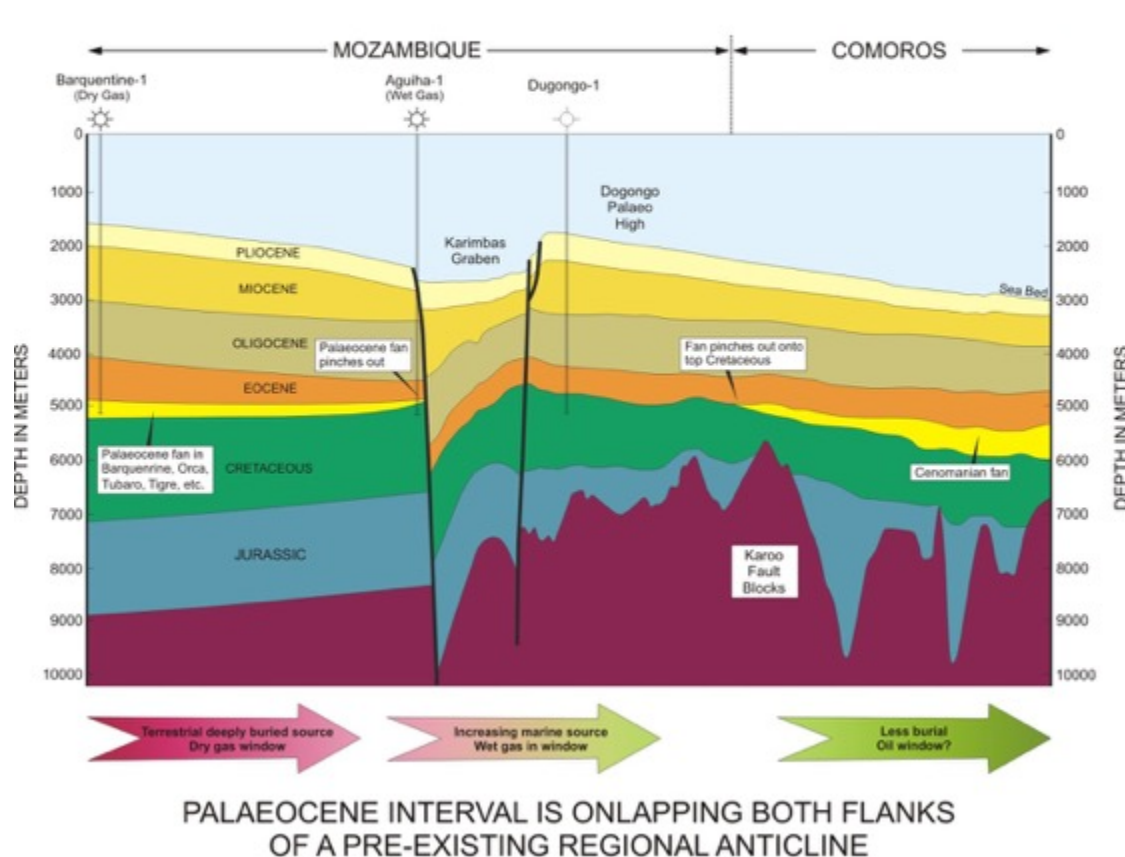


- SAPETRO has participating interests in the adjoining Juan de Nova Maritime Profond exclusive exploration permit and in the Belo Profond Production Sharing Contract



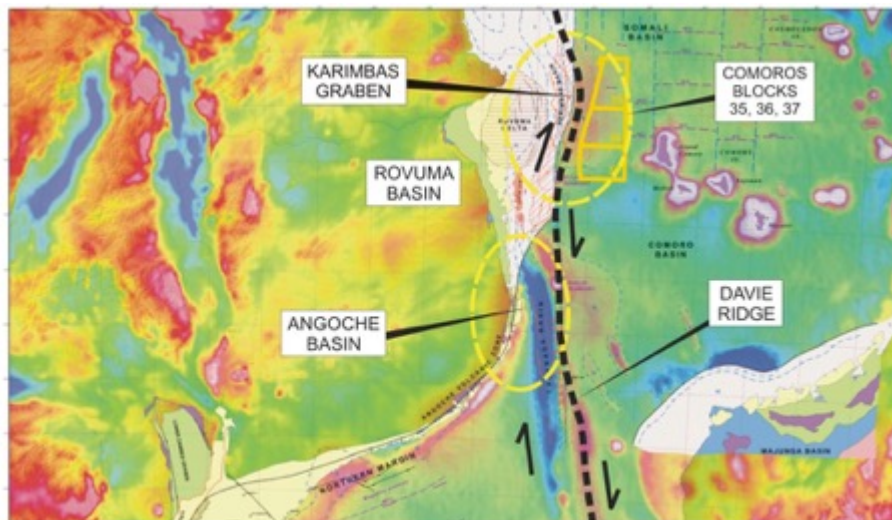
Geothermal  
gradient :  
2.86°C / 100m

- Middle Jurassic source rock (150 MA) ➔ Oil & gas window
- Upper Cretaceous source rock (100 MA) ➔ Oil & gas window
- Early Tertiary source rock (65 MA) ➔ Oil window



Geothermal Gradient of 2.5°C for Jurassic & Tertiary source rock



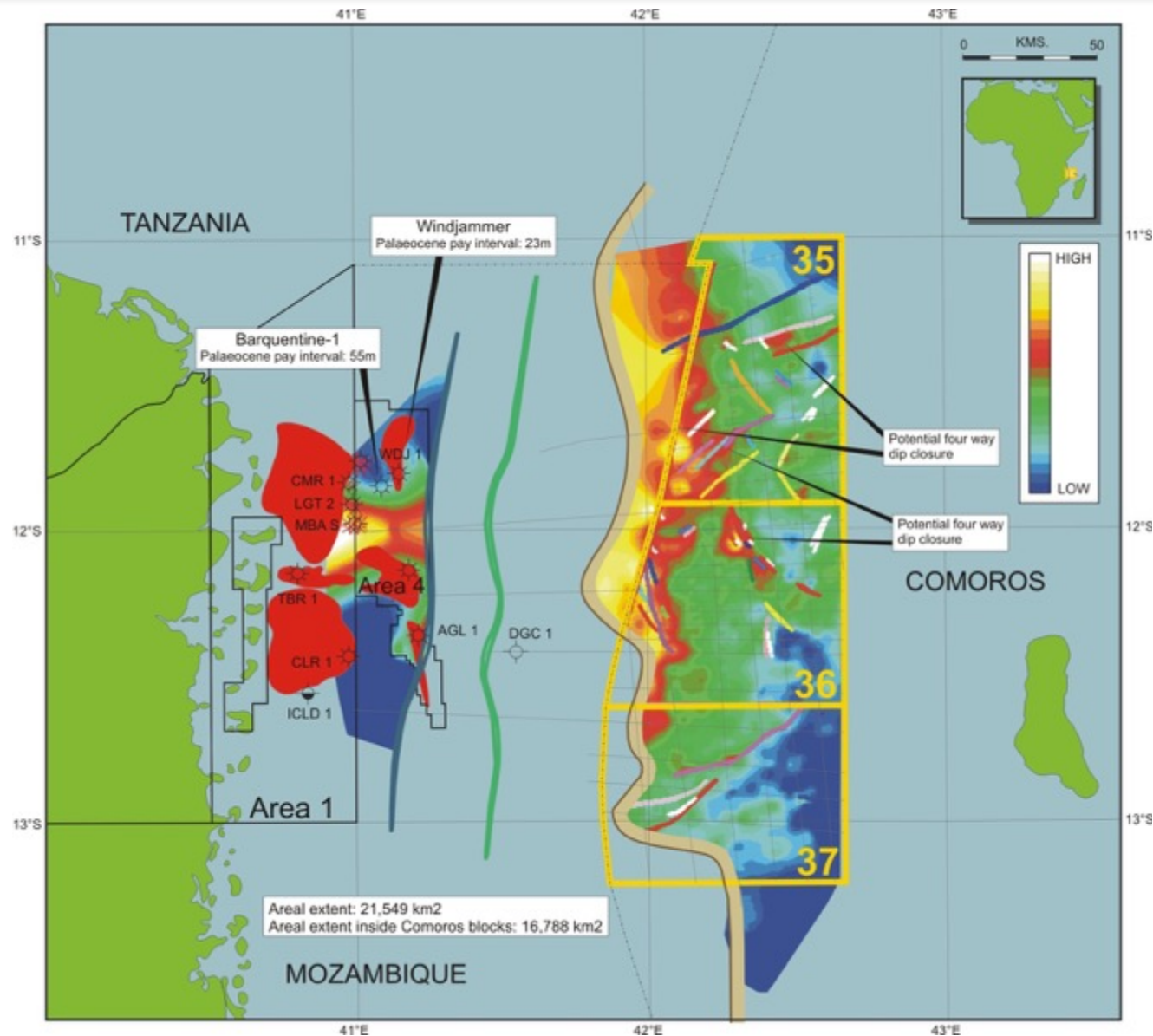


Structurally, the Angoche area is located on the western flank of the Davie ridge and the Comoros acreage is located on its eastern flank.

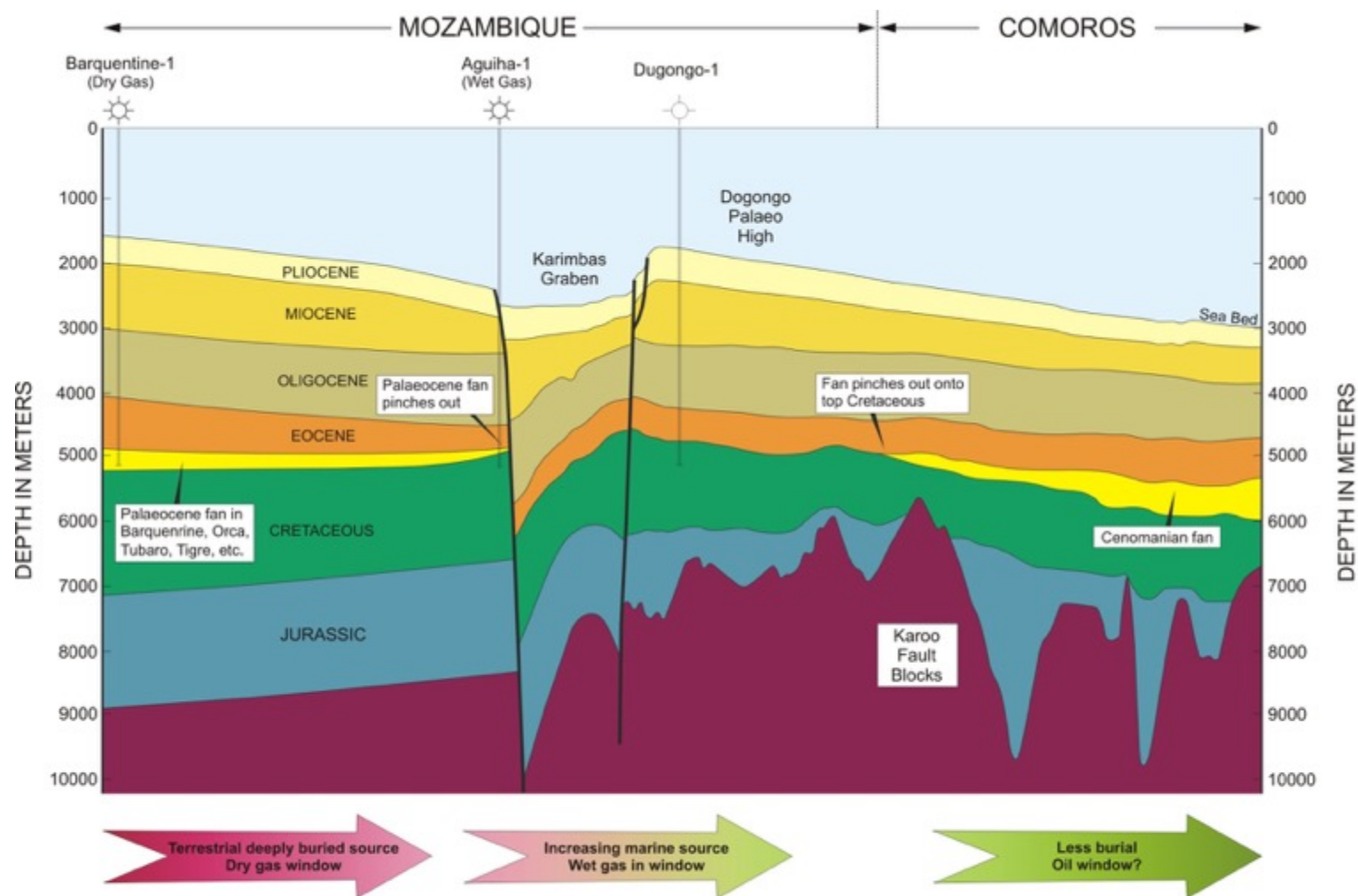
The main expected reservoir there consists of the TuroCenomanian "Domo" sands.

Domo sands

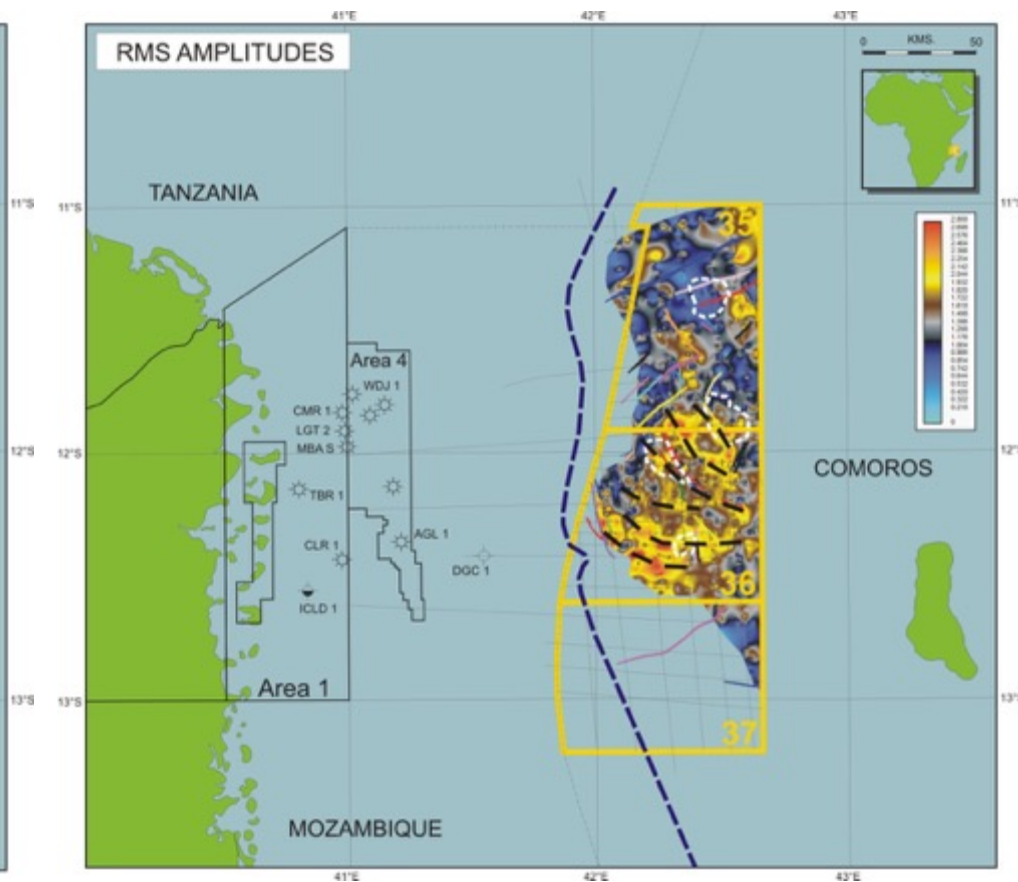
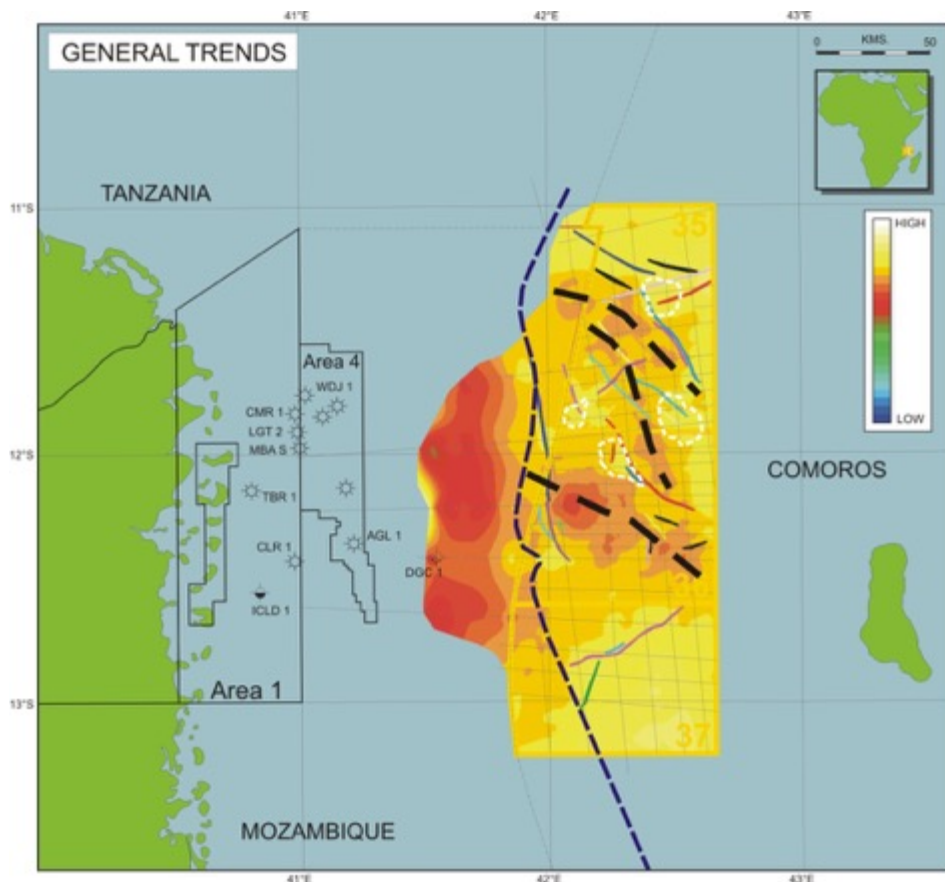
PERIOD	STAGE	LITHO-STRATIGRAPHY	LITHOLOGY		AGE	TECTONISM			
			South	North		SOUTH Angoche basin	NORTH Nacala basin		
QUATERNARY		?			0 Ma				
Neogene	Pliocene	?			3 Ma	Extensional tectonic (EARS)	EARS		
	Miocene	?			5 Ma				
	Oligocene	?			23 Ma				
Paleogene	Eocene	?			34 Ma	PASSIVE MARGIN			
	Paleocene	?			55 Ma				
	Maastrichtian	Lower Grudja Equiv.			66 Ma				
CRETACEOUS	Campanian				83 Ma	ONSET OF PASSIVE MARGIN EROSION/LATE DRIFT PHASE	LATE DRIFT PHASE		
	Santonian	Upper Domo Sh Equiv.			89 Ma				
	Coniacian				100 Ma	MARINE REGRESSION			
	Turonian	Domo Sand Equiv.			118 Ma				
	Cenomanian				130 Ma	TECTONIC UPLIFT STRIKE-SLIP CLASSED (DF2)	EARLY DRIFT PHASE		
	Albian	Lower Domo Sh Equiv.			145 Ma				
	Barremian				167 Ma	TECTONIC SUBSIDENCE	EARLY DRIFT PHASE		
	Neocomian	Pemba Fm Equiv.			170 Ma				
	JURASSIC	Tithonian	J-Unit III			?	TECTONIC SUBSIDENCE	EARLY DRIFT PHASE	
		Kimmeridgian	J-Unit II			?			
Oxfordian		J-Unit I			167 Ma	STRIKE-SLIP STAGE (DF2)	EARLY DRIFT PHASE		
Bathonian-Bajocian	Mtumbes Limestone ? Oceanic Crust ?			170 Ma					
JURASSIC	Asenian	Basement				TECTONIC SUBSIDENCE			
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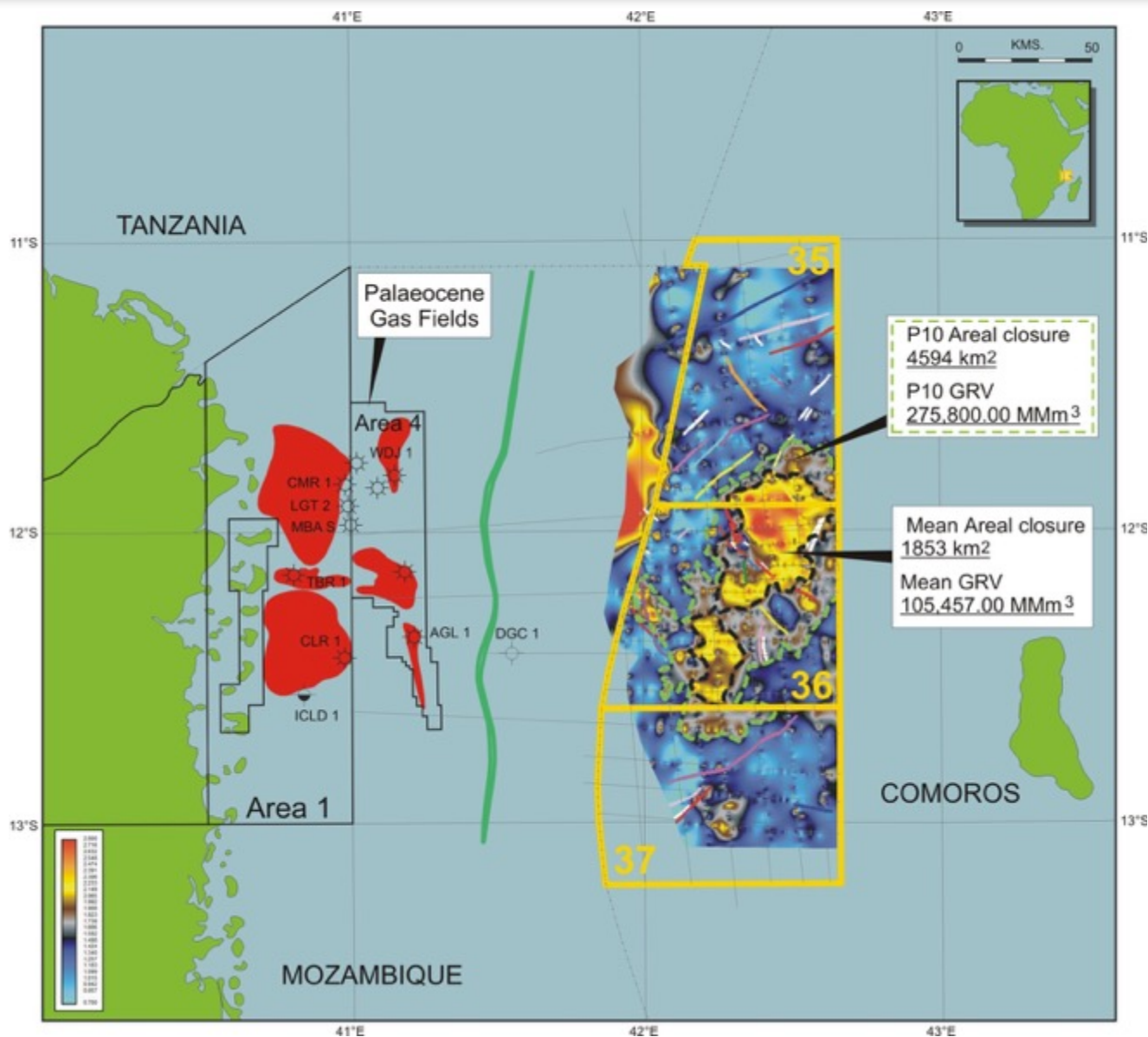




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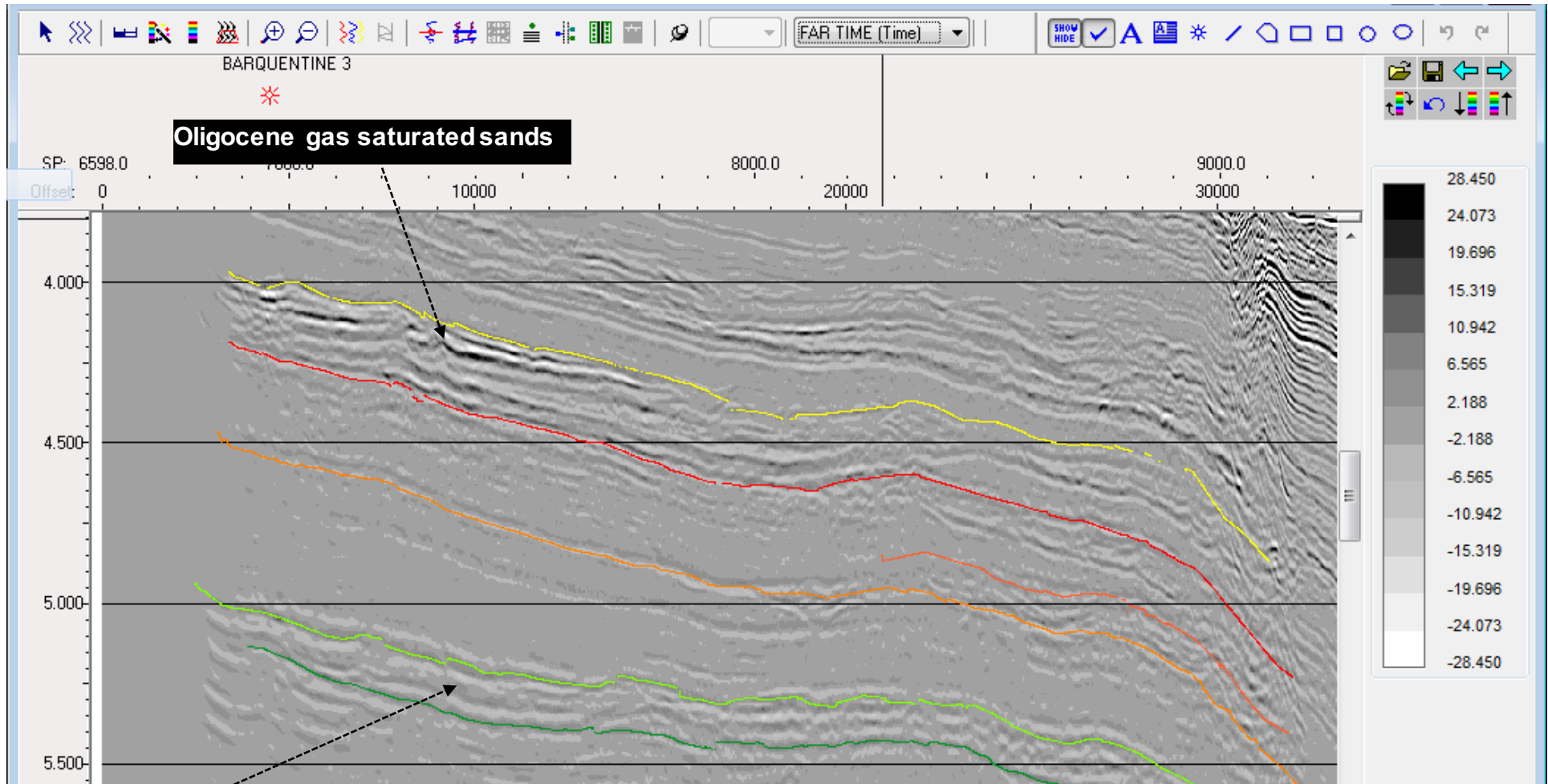


<b>GAS CASE</b> <b>P<sub>mean-P10</sub></b>	Area (km <sup>2</sup> )	GRV (Bm <sup>3</sup> )	N/G		S <sub>HC</sub>	B <sub>g</sub>	GIIP (Tcf)	RF	Prospective resources (Tcf)
<i>Cenomanian Fan</i>	<b>850-1,850</b>	<b>105-275</b>	<b>22-30%</b>	<b>18-20%</b>	<b>64-80%</b>	<b>350-325</b>	<b>30-80</b>	<b>80-85%</b>	<b>24-63</b>

or

<b>OIL CASE</b> <b>P<sub>mean-P10</sub></b>	Area (km <sup>2</sup> )	GRV (Bm <sup>3</sup> )	N/G		S <sub>HC</sub>	FVF	STOIIP (Bbbl)	RF	Prospective resources (Bbbl)
<i>Cenomanian Fan</i>	<b>850-1,850</b>	<b>105-275</b>	<b>22-30%</b>	<b>18-20%</b>	<b>64-80%</b>	<b>2.14-2.12</b>	<b>8-21</b>	<b>26-40%</b>	<b>2-5</b>



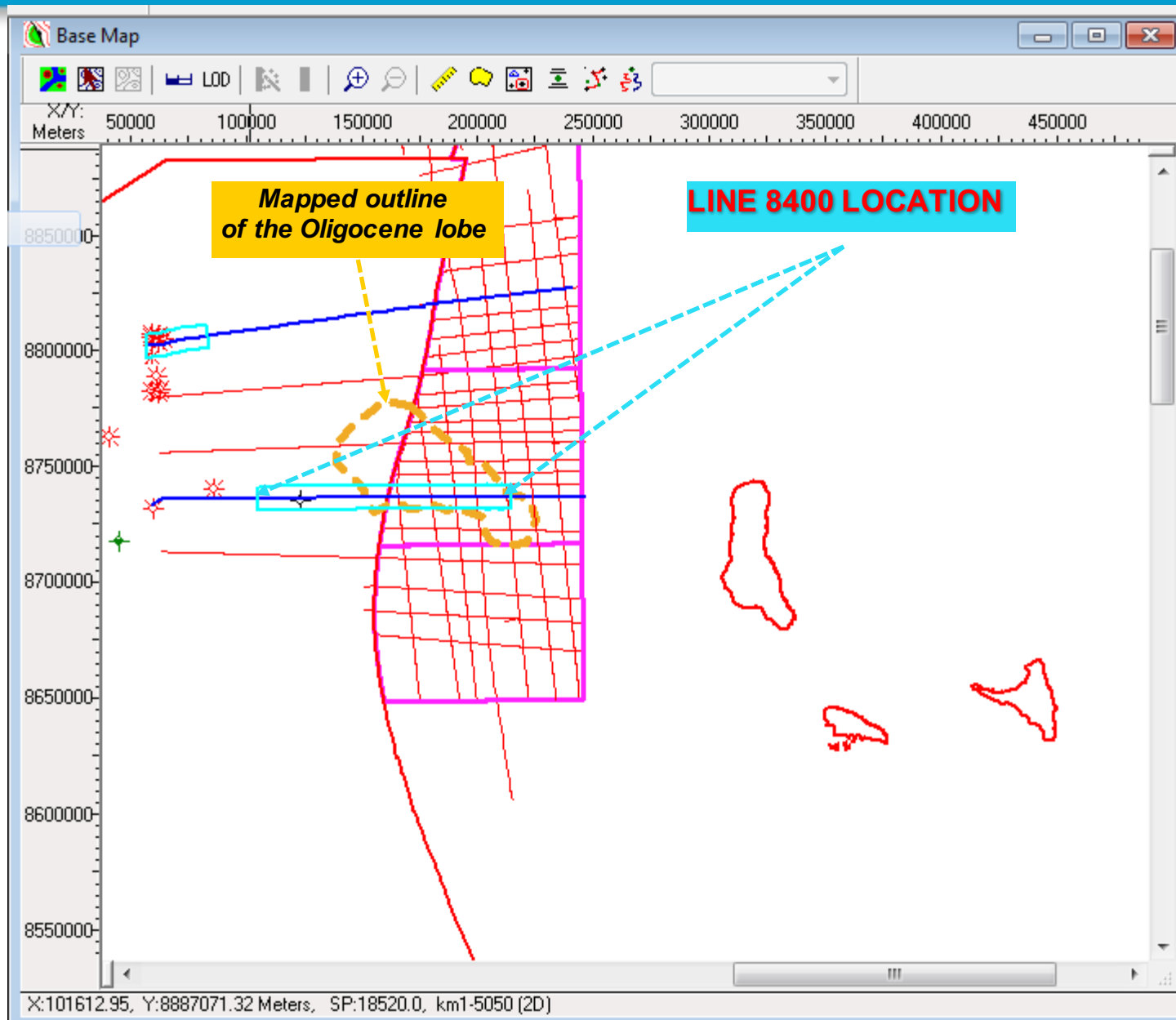


**Paleocene gas saturated sands**

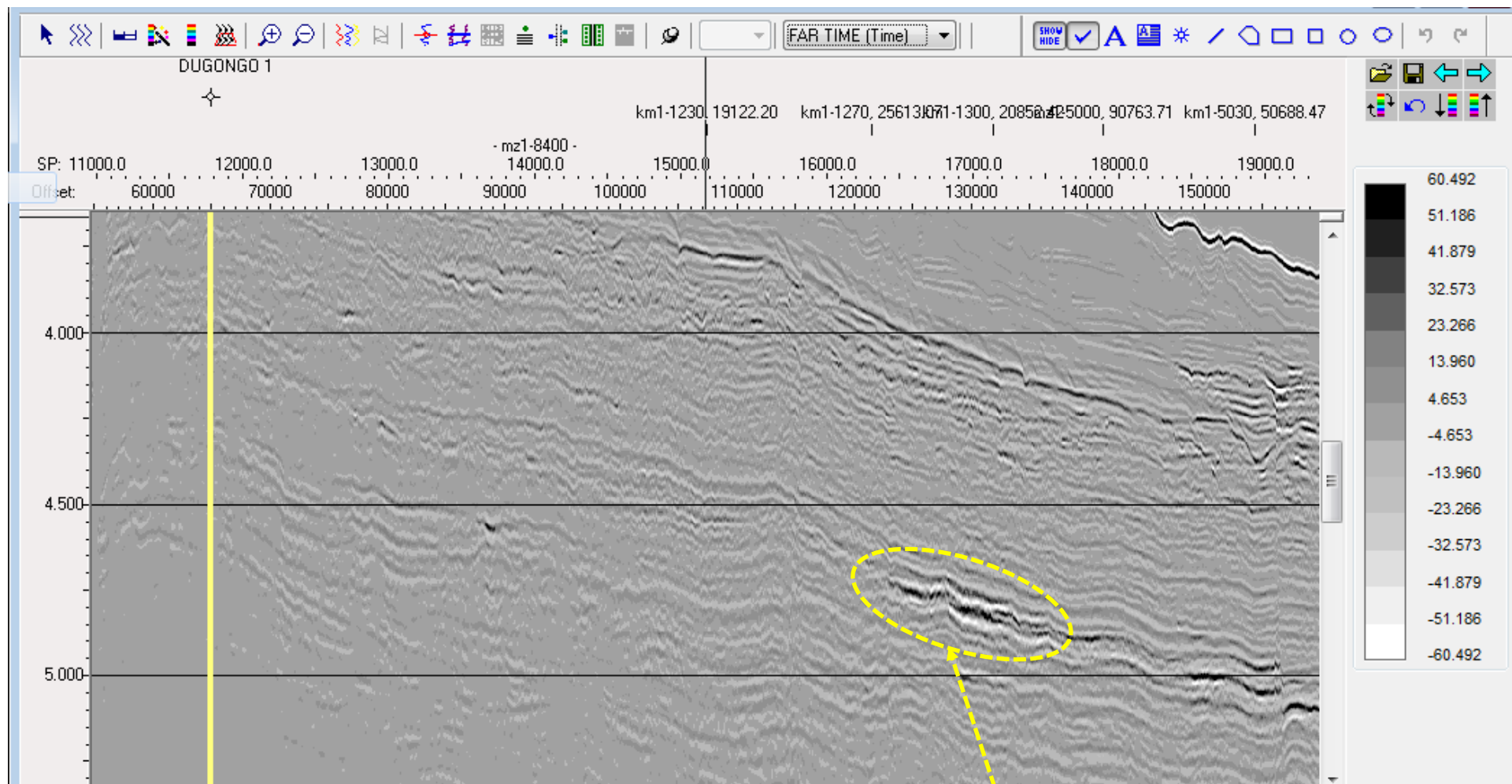
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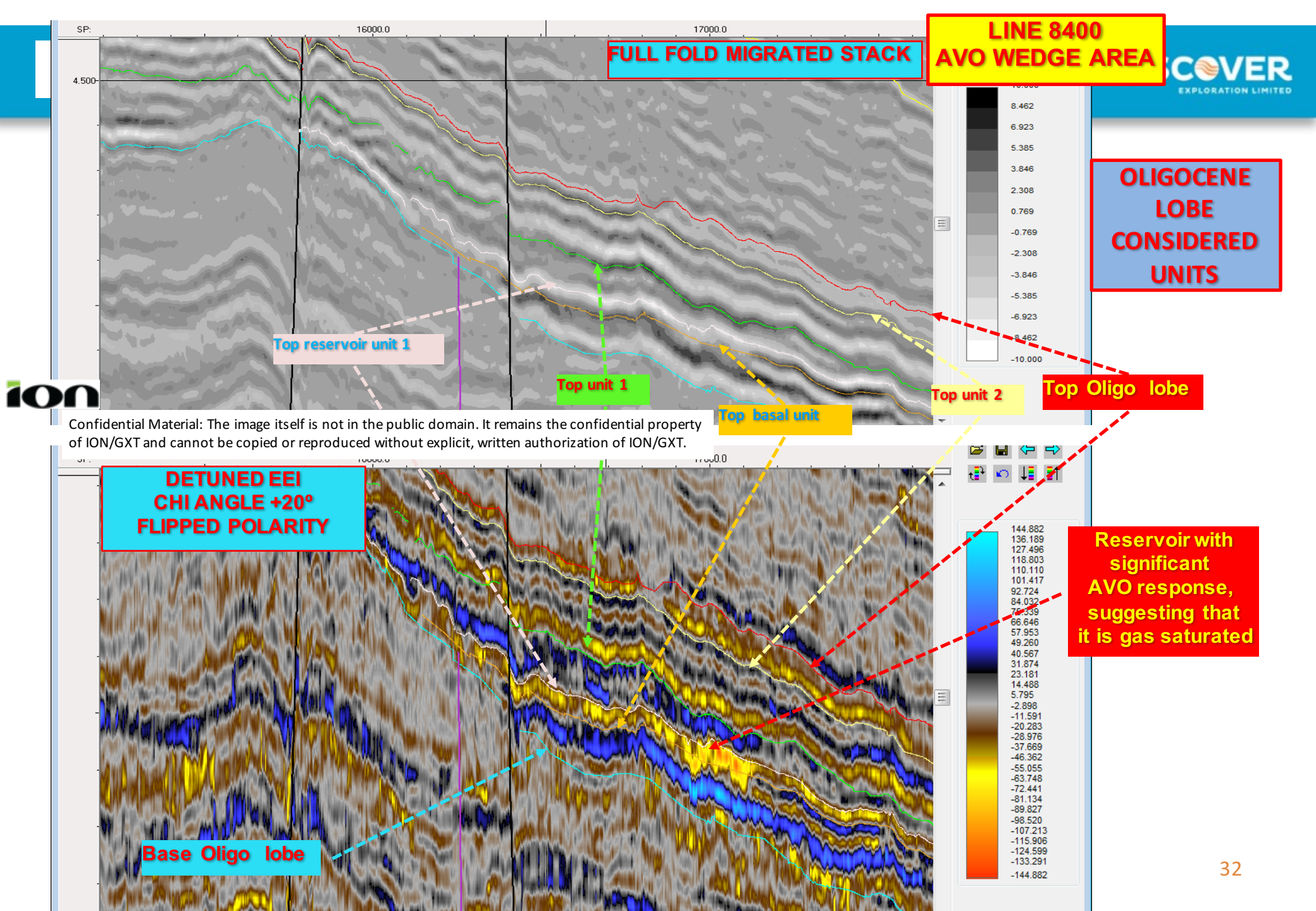
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**Bright Oligocene response no Paleocene response**

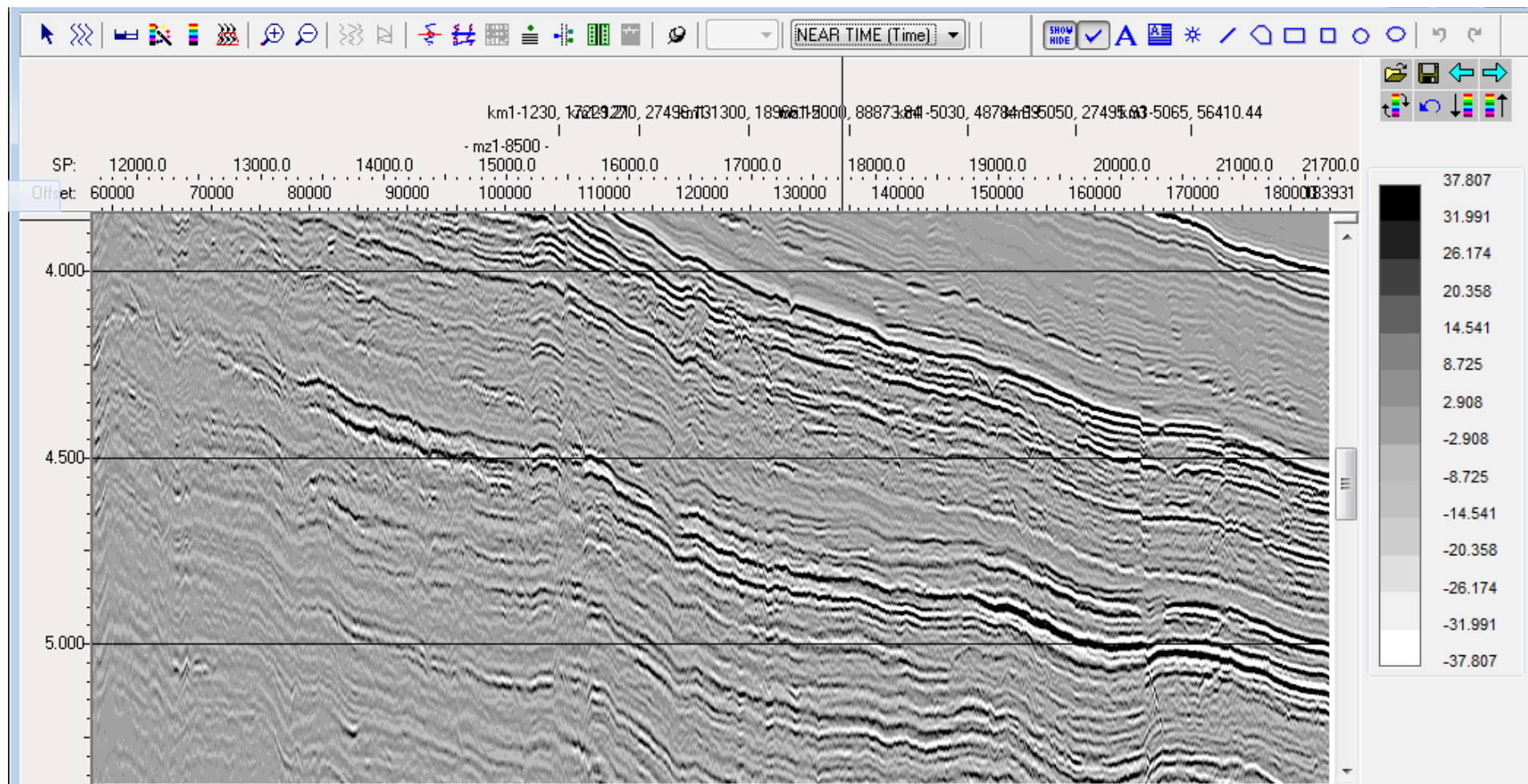


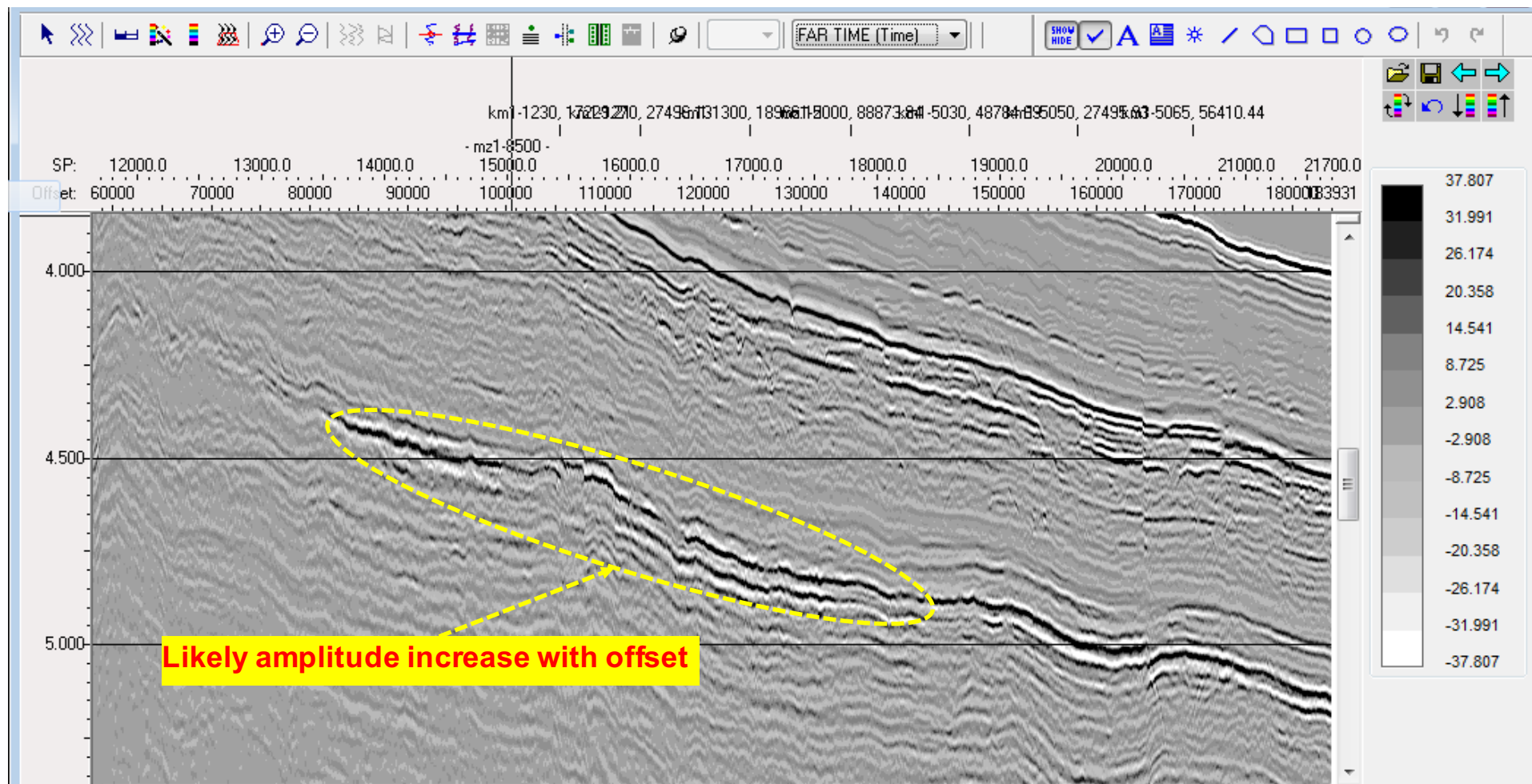




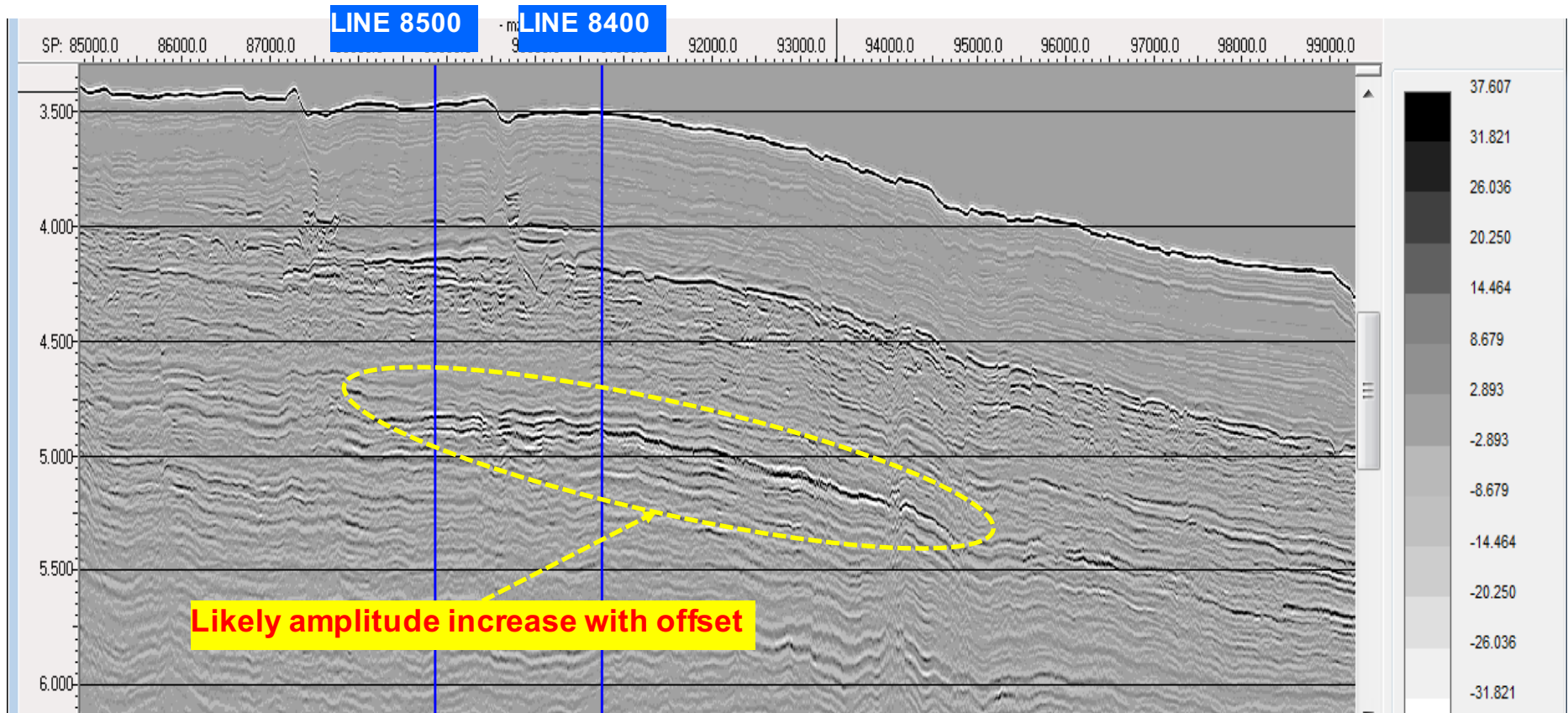






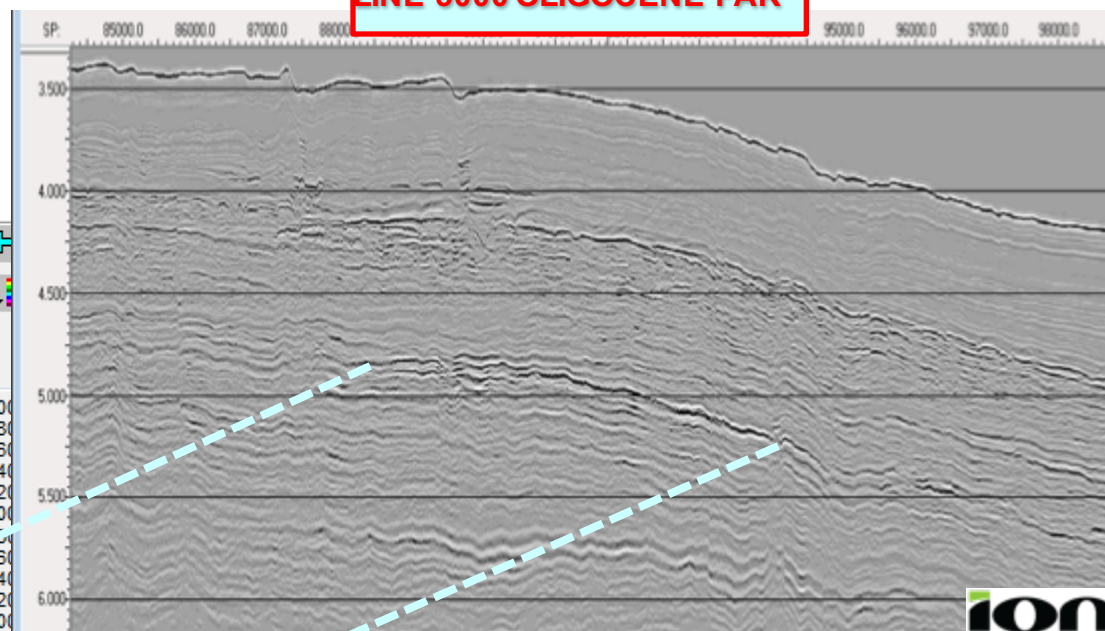
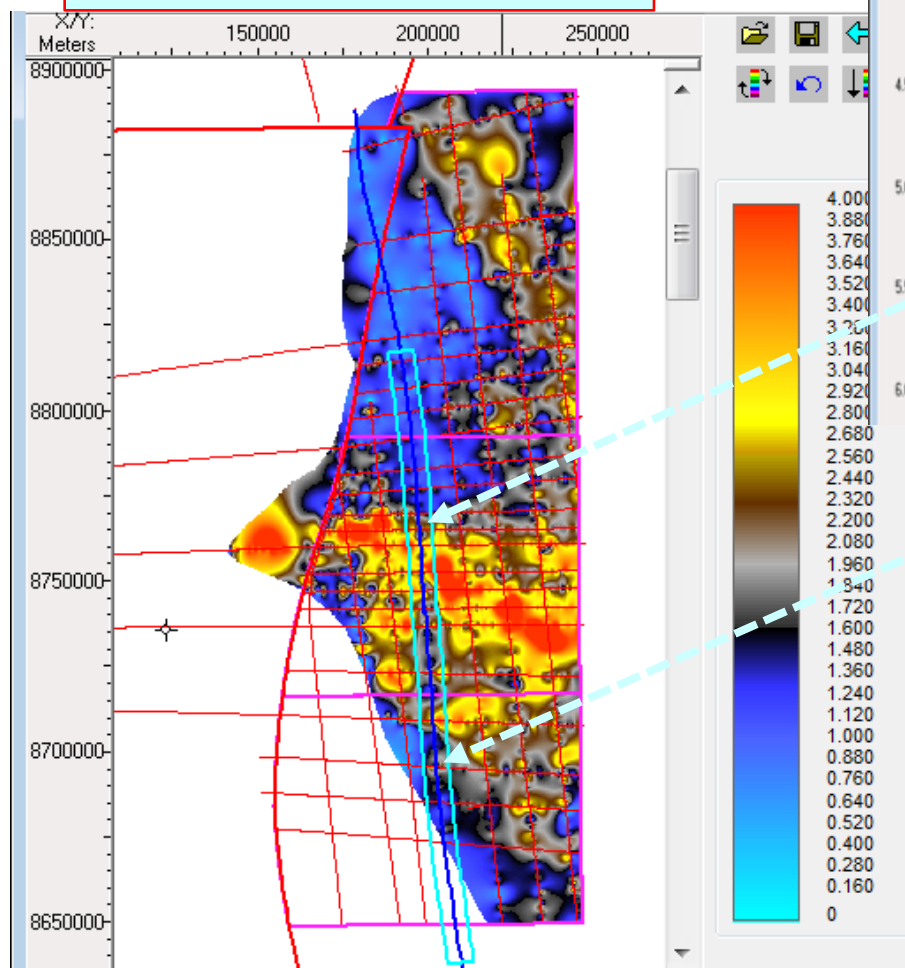




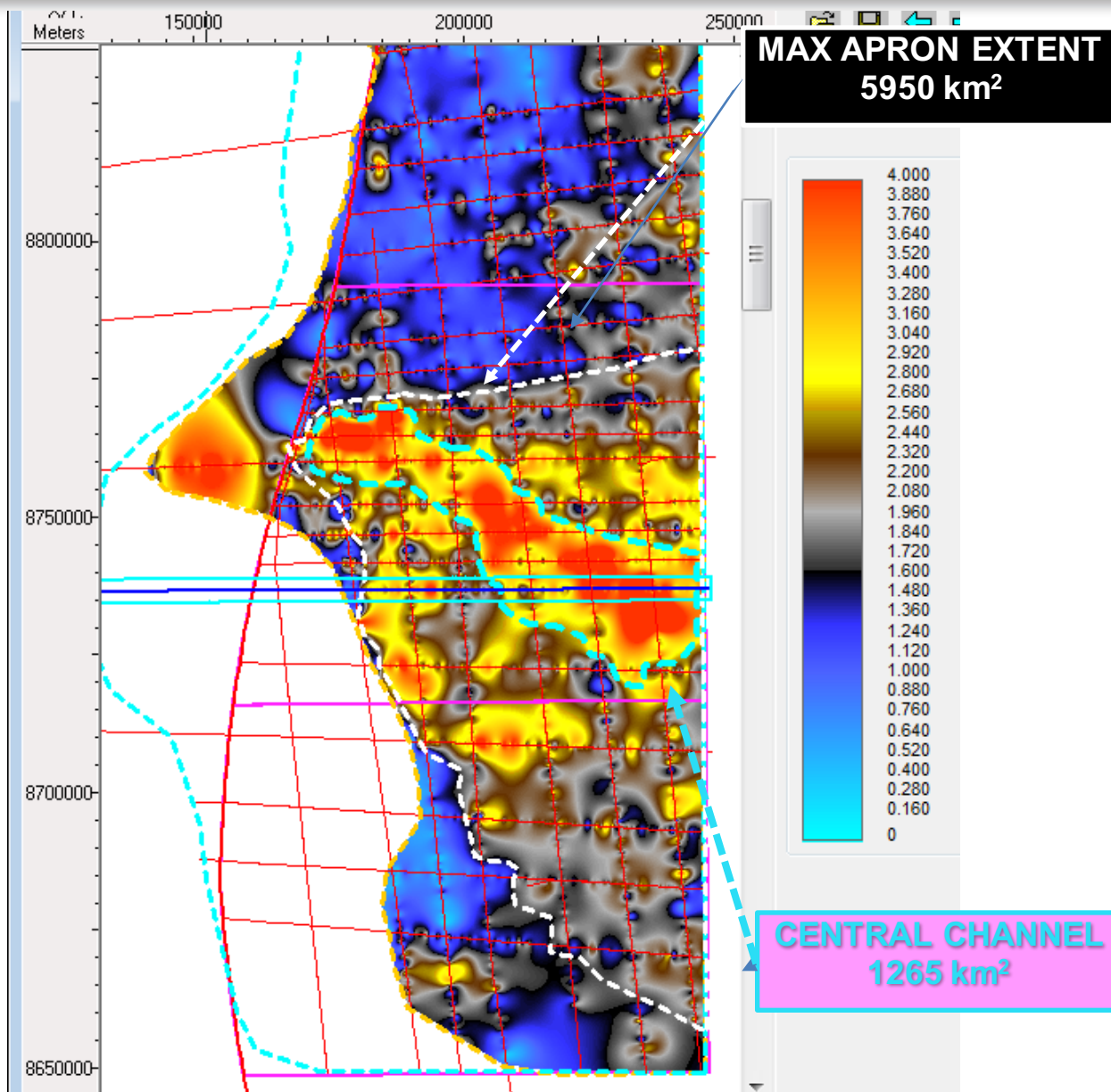


**LINE 5000 OLIGOCENE FAR**

**BASAL UNIT OF OLIGOCENE LOBE  
RMS AMPLITUDES**



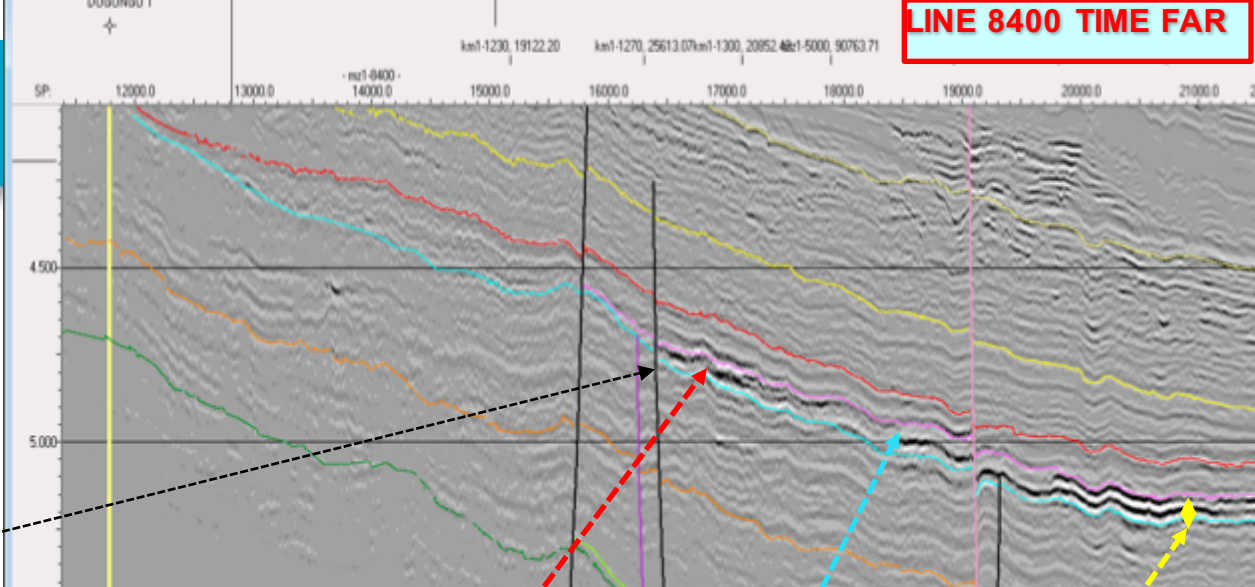
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## LINE 8400 LEAD LIMITS

LINE 8400 TIME FAR



APRON WESTERN EDGE

ion

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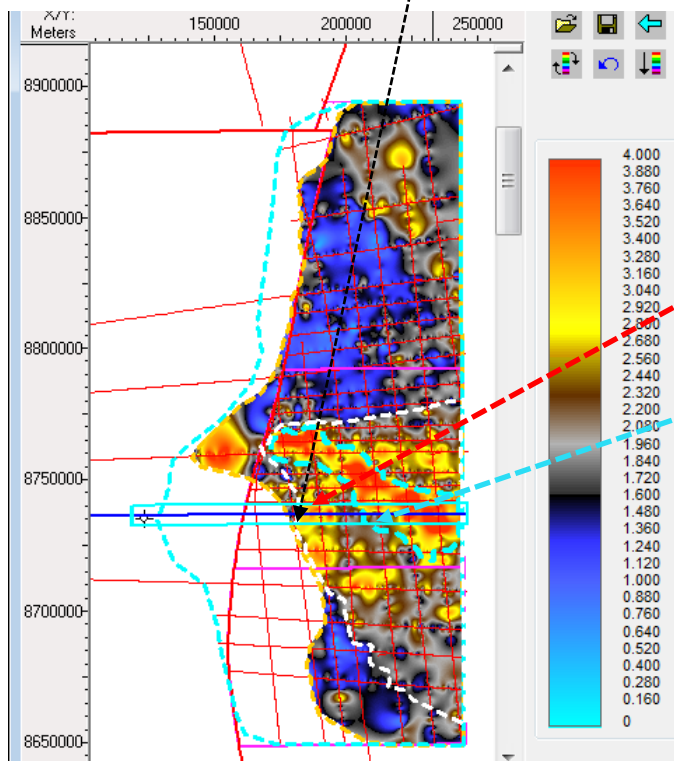
POTENTIAL GAS CAP WITH AVO RESPONSE

PAY INTERVAL

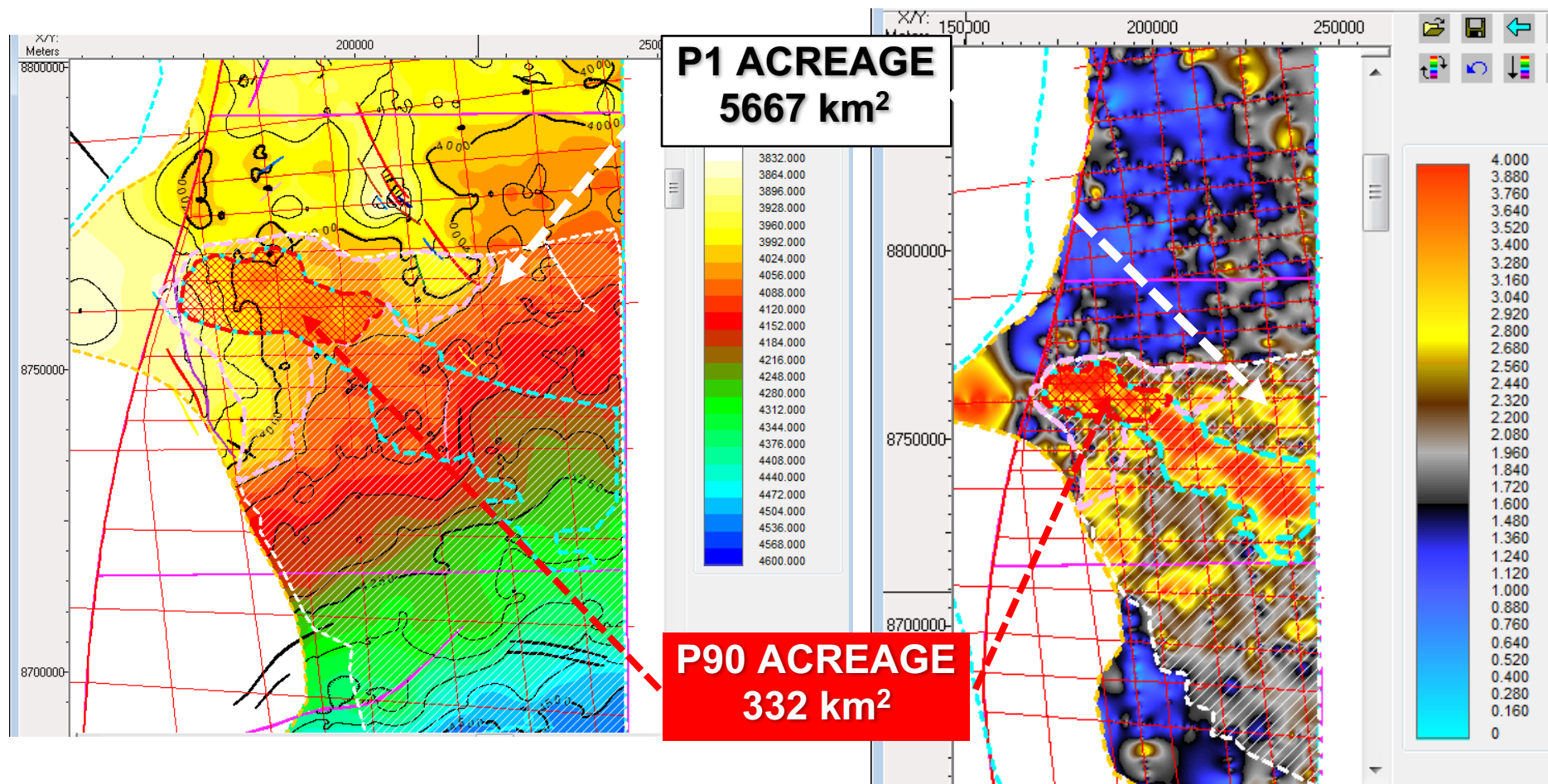
CENTRAL CHANNEL WESTERN EDGE

ion

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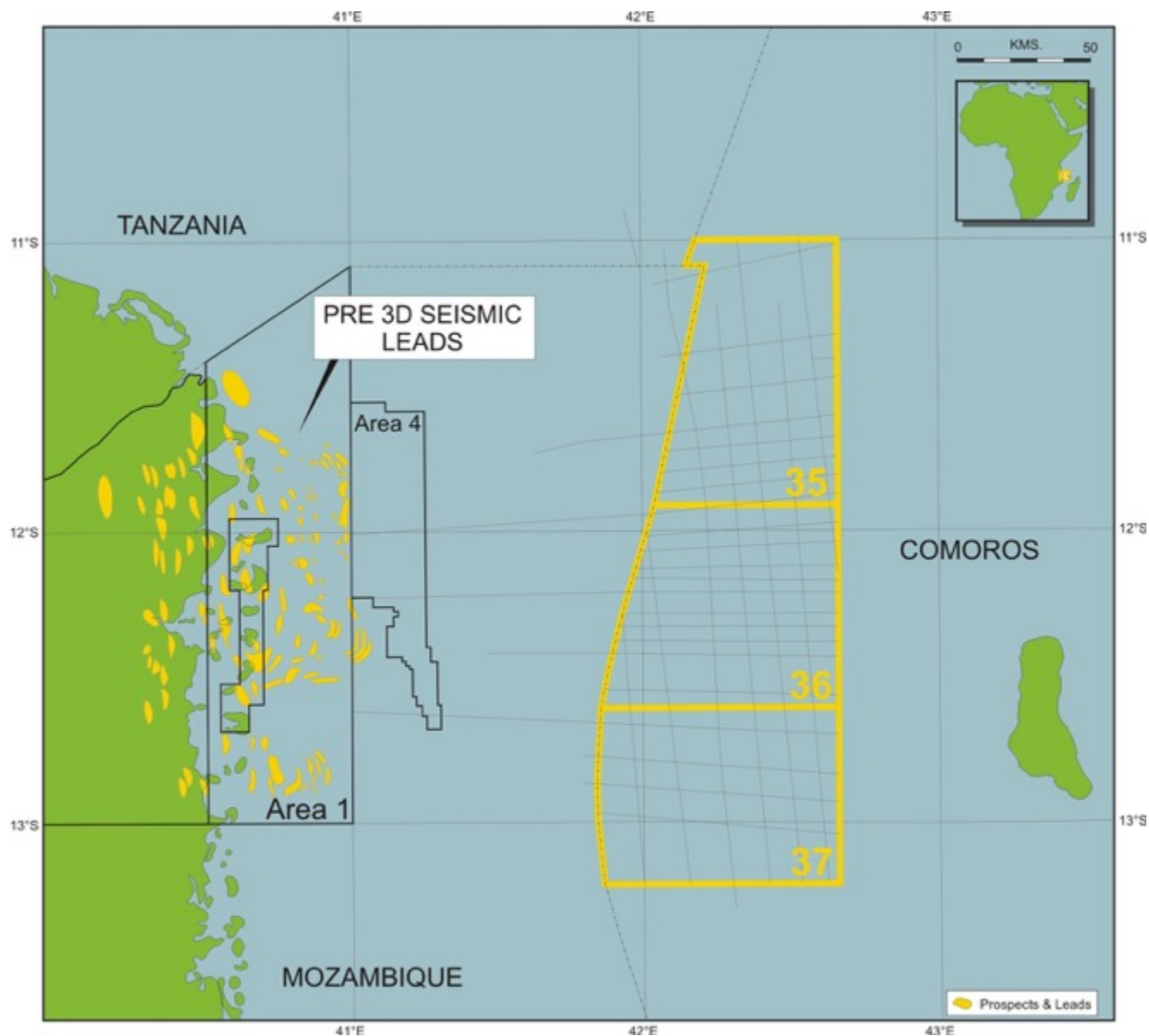


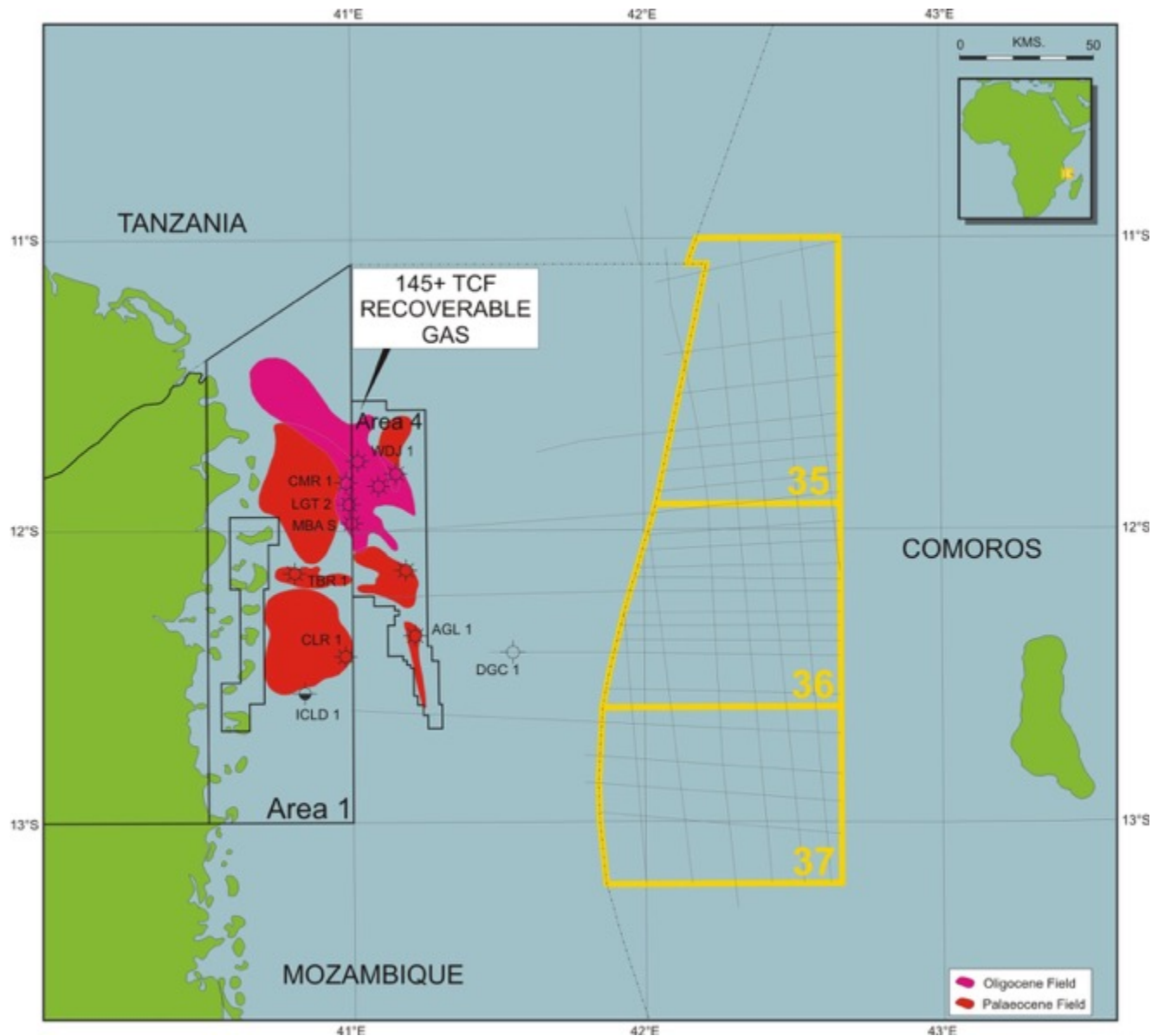
LINE 8400 MIGRATED STACK DEPTH

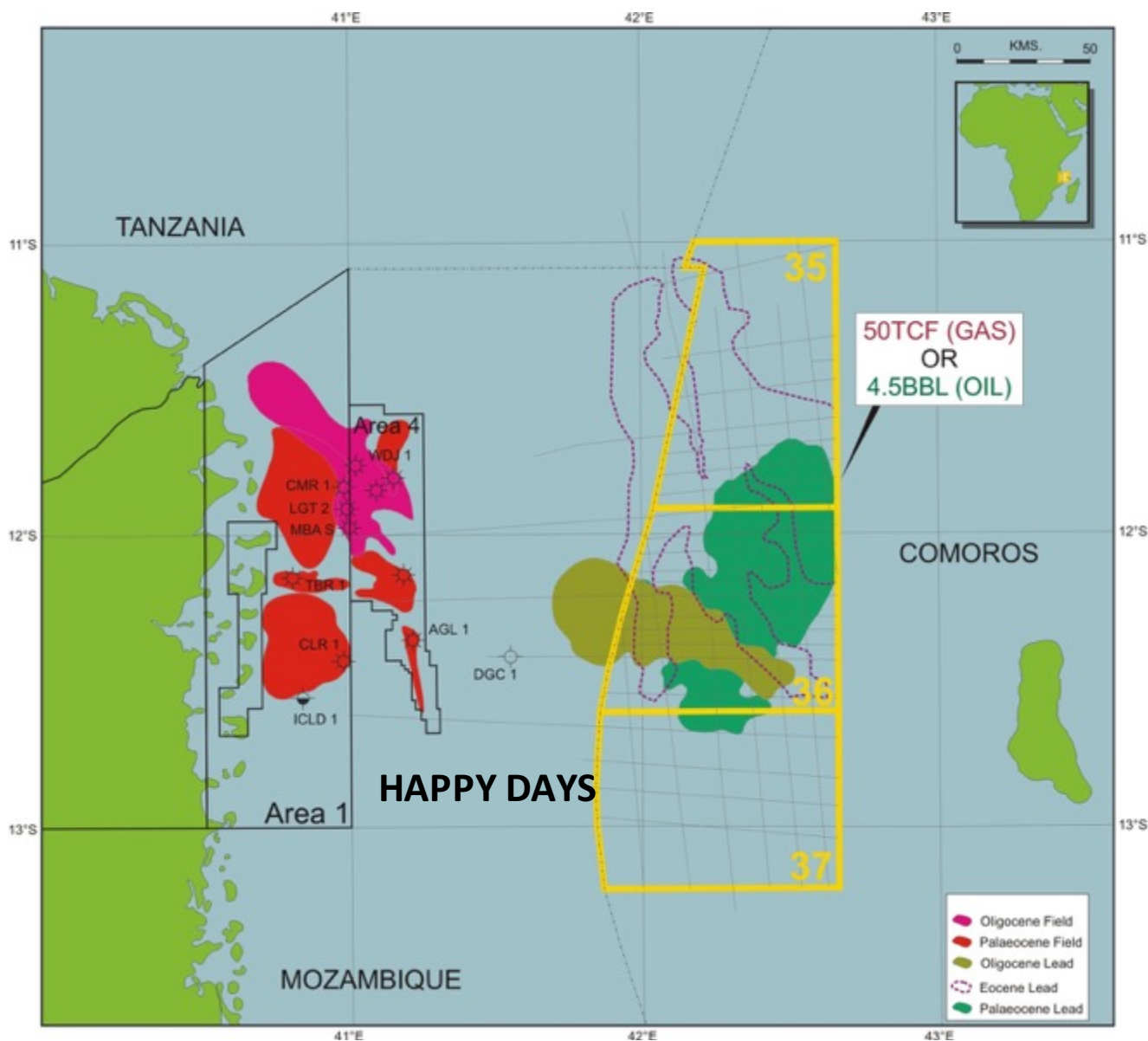


- Cenomanian, Eocene & Oligocene fans draped over regional structural arch
- Similarities to Mozambique Areas 1-4
- Dugongo High sets up traps on it's eastern flank
- Strong evidence for continental crust
- Compelling evidence for oil
  - Basin Modelling
  - AVO
  - ENI Coral Gas Field in Area 4 has wet gas
  - Less burial on source rock
- Giant resource potential - Pmean prospective resources of 50 Tcf (gas) or 4.5 Bbbl (oil)
- Way forward:
  - Complete AVO on deeper horizons
  - Plan 3D seismic (2016) - 7000 Km<sup>2</sup>
  - 2 Wells (2017/18)









Prospective resources:  
(Pmean)

**50TCF (GAS)**  
**OR**  
**4.5BBL (OIL)**



# DISCOVER

EXPLORATION LIMITED