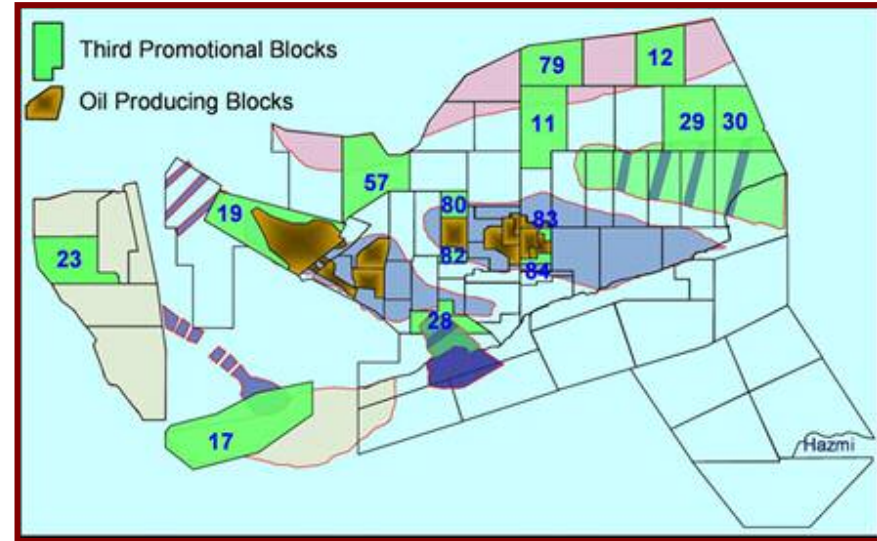
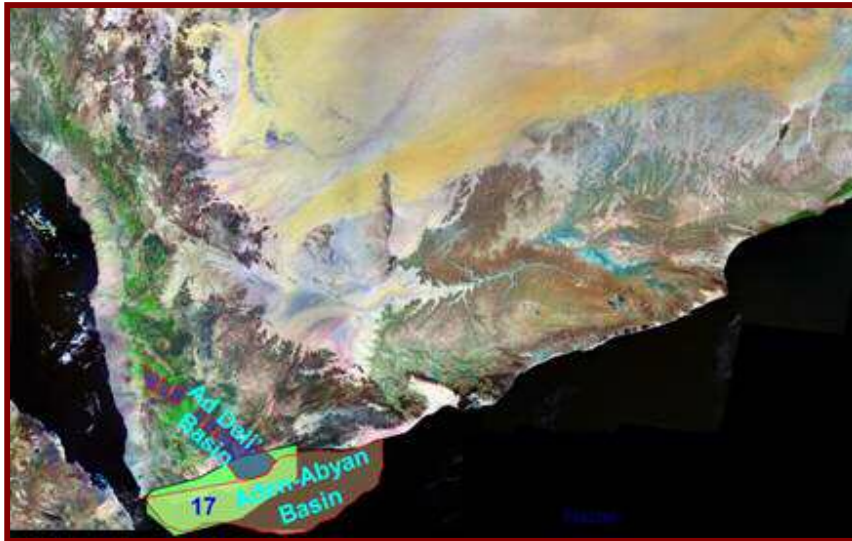
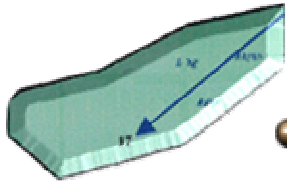


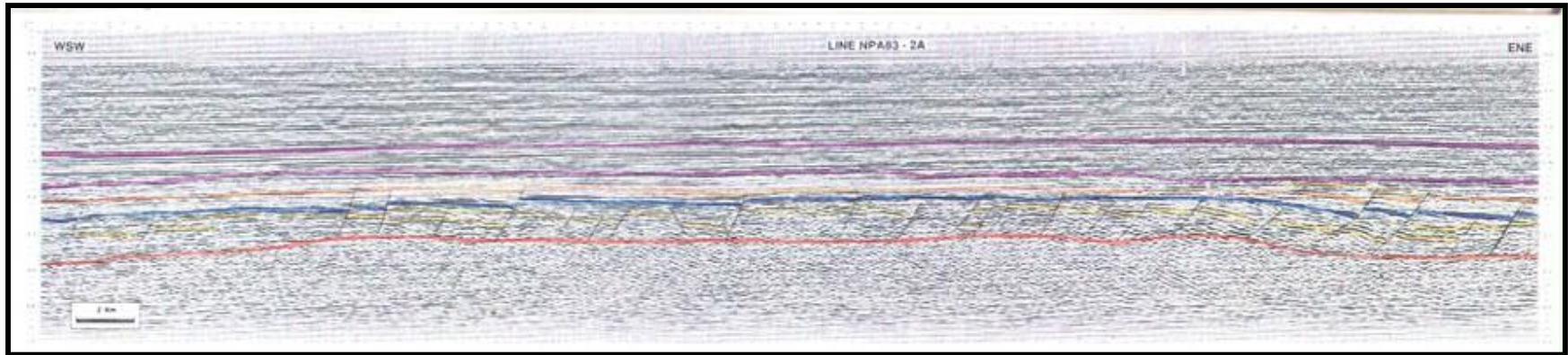


# Block 17 (Aden-Abyan)

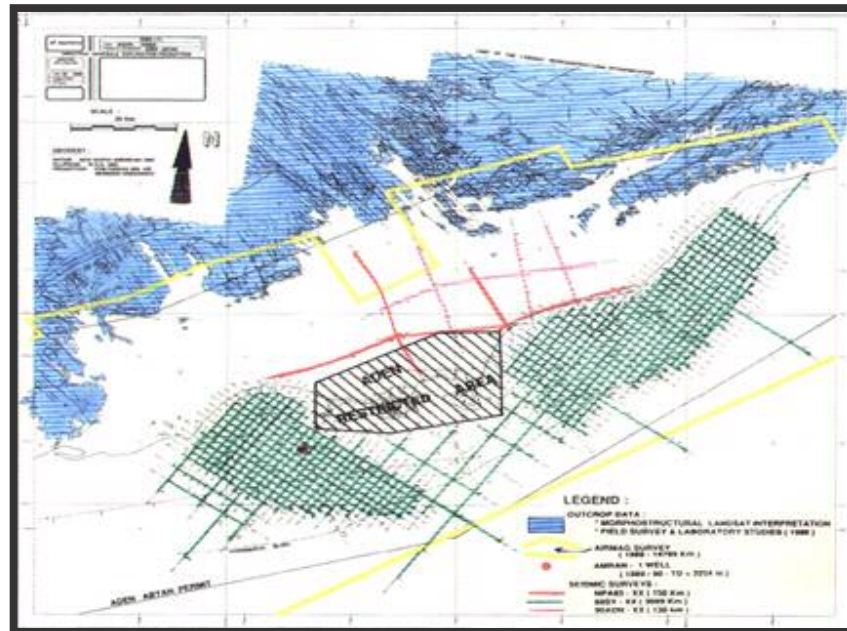
- The Aden-Abyan Block (17) occupies an area of 19385 km<sup>2</sup> of the Aden-Abyan Basin on the southern coast of Yemen and centered around the Aden city.
- Block (17) lies on the onshore and offshore area. It is bordered on:
  - The north by outcrops (Tertiary traps, Mesozoic series, Precambrian basement).
  - The south by the ocean crust.
  - The east and west by a seaward development of Tertiary traps.
- Offshore, the interest area is above the continental slope with a shallow bathymetry (<50m), deepening downwards (>1000m).



Area (Km <sup>2</sup> )	: 19,385
Province	: Aden / Abyan
Basin	: Aden - Abyan
Wells	: 1
Seismic	: 7667 Km 2D



**Seismic Section in Aden - Abyan Basin**



**Previous Work Map**

**PREVIOUS EXPLORATION ACTIVITIES**

<b>Company</b>	<b>Period</b>	<b>Activities</b>
<b>PED</b>	1983-1984	Geophysical (offshore, onshore 2D seismic)
<b>Elf</b>	1987-1990	Geophysical (offshore, onshore 2D seismic) Drilling 1 well.

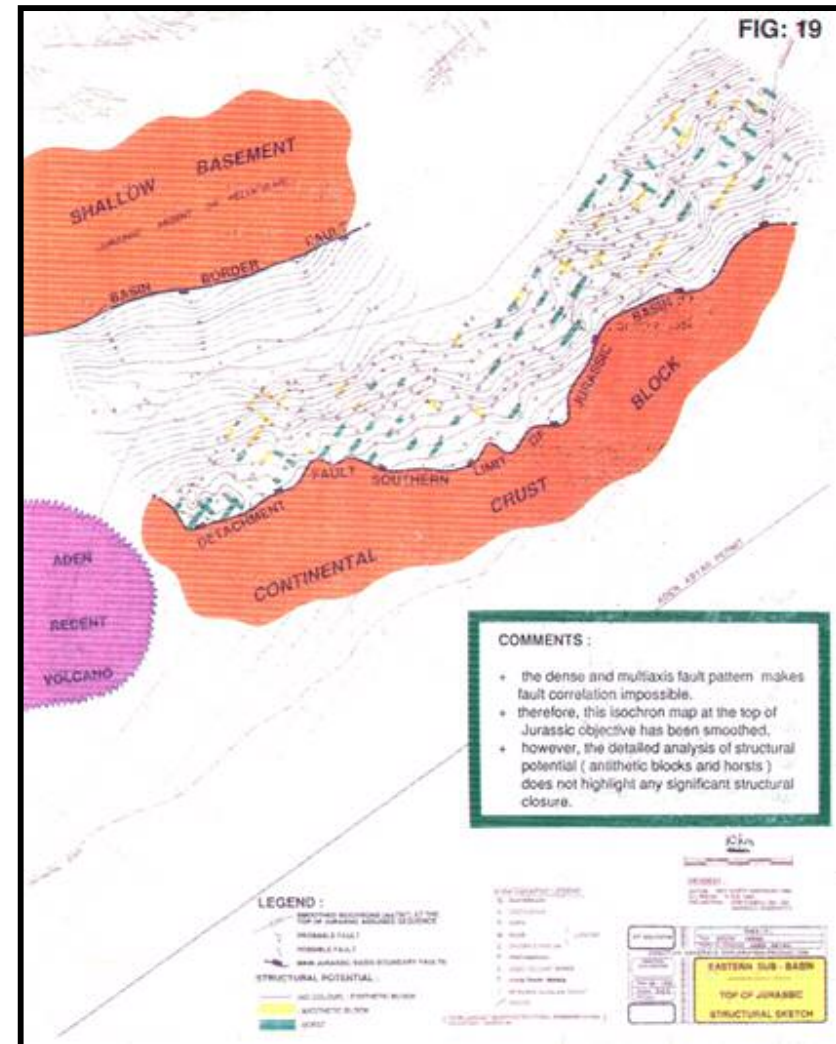
## DRILLED WELLS

<b>WELL NAME</b>	<b>COMPANY</b>	<b>DATE</b>	<b>TD</b>	<b>SHOWS</b>
			<b>TD FM</b>	<b>STATUS</b>
Amran#1	ELF	1989-1990	3254 m	No shows
			Oligocene	P & A

The structural style of the Aden-Abyan is poorly studied. The geophysical data and field observations indicate that:

- 1) The area is subdivided into two sub-basins, separated by nearly N-S transfer zone.
- 2) The sedimentary sequences within the basin are buried in the southward monoclinial form.
- 3) faults trending northwest and northeast break the sedimentary cover.
- 4) Basalt dikes and sills of the Aden Trap Series were found in several places within the sedimentary cover of the basin.
- 5) The presence of excellent source rocks in Madbi Shales.
- 6) The presence of two sandy reservoirs within Madbi (Lam Formation?, which are oil producing in Block S1 located to the north of Block 17).
- 7) The presence of a possible narrow and shallow half-graben.

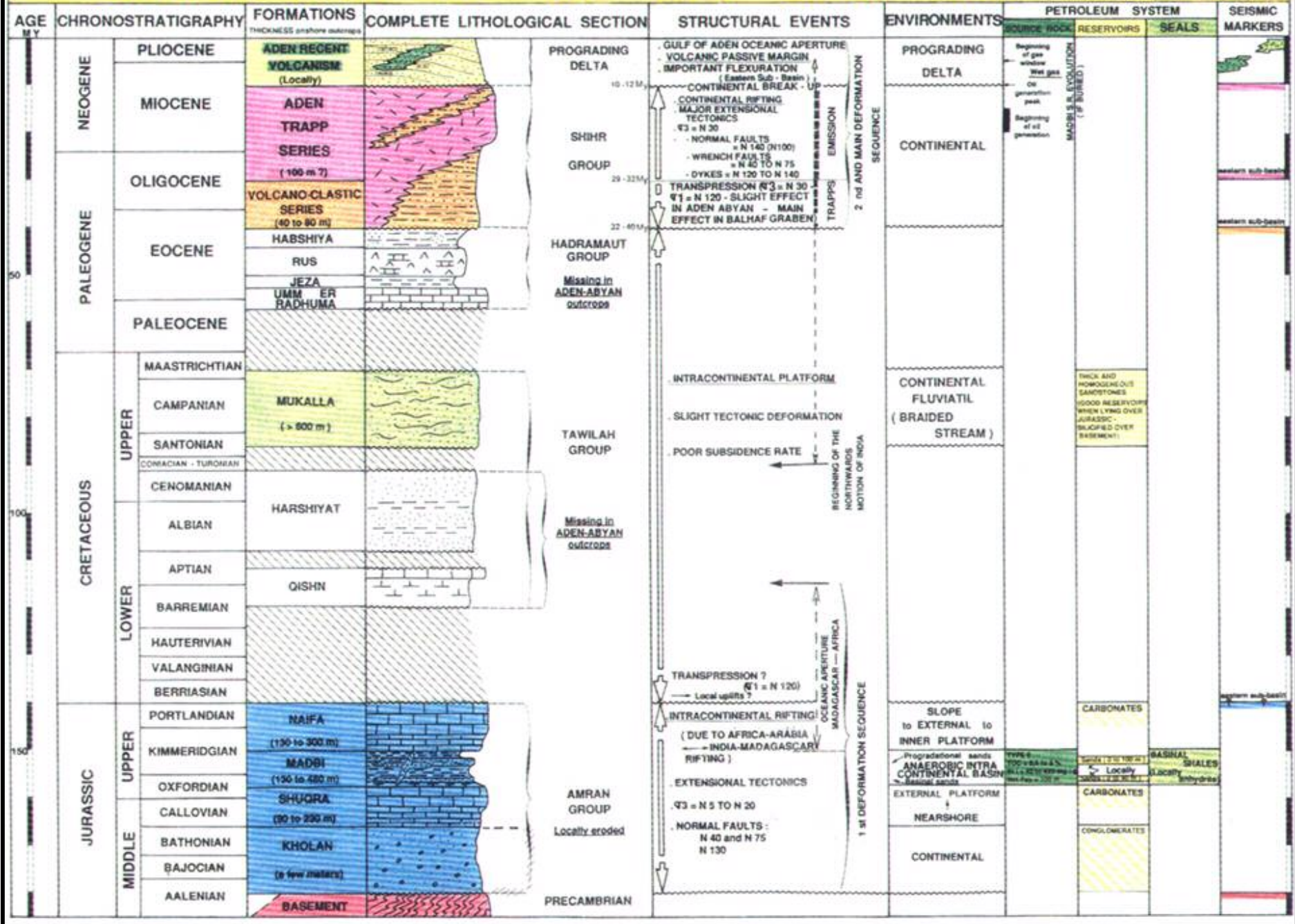
Re-interpretation of seismic data may give some ideas about the basin.





# SYNTHETIC CHART OF THE ADEN ABYAN AREA

FIG: 3 D.E.S. 09 - 90



# PETROLEUM SYSTEM

## SOURCE ROCKS

- The Jurassic Madbi Formation shales are the main source rock in the region.

## RESERVOIR - SEAL

- Numerous sand/carbonaceous reservoirs are encountered in outcrops (and in somalian Zeila-3 well):
  - ⊕ Lower Madbi basinal sands
  - ⊕ Upper Madbi marine prograding sands
- Potential reservoirs could be developed in the Jurassic and Upper Cretaceous, Kohlan, Shuqra, Naifa, and Mukalla Formations, sealing potential is expected in the Madbi Formations.

