Q98-1 to 3

Carpentaria Basin

Location Map

Point Summary

Stratigraphy

Cross Sections (2)

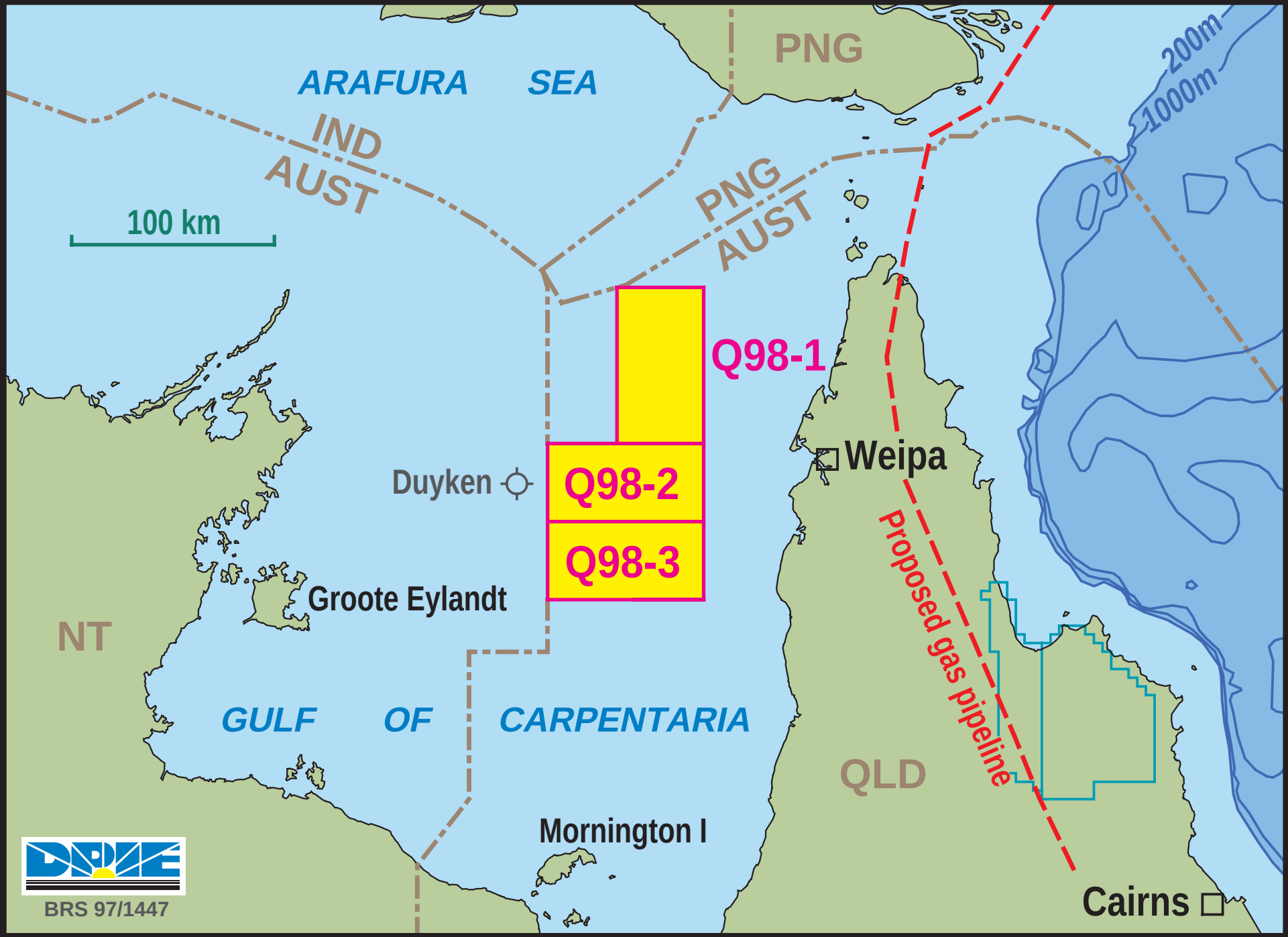
Source Rock

Seismic

Leads & Plays (3)

GALLERY

BACK


ARAFURA SEA
PNG
IND AUST
PNG AUST
200m
1000m
100 km
Q98-1
Q98-2
Q98-3
Duyken
Weipa
Groote Eylandt
NT
GULF OF CARPENTARIA
QLD
Proposed gas pipeline
Mornington I
Cairns
BRS 97/1447

Areas Q98-1 to 3
Carpentaria & Bamaga Basins

- Sparsely explored frontier region
- 40,000 sq km - only 1 offshore well in the Gulf of Carpentaria
- Seismic line spacing generally 4 km +
- Mz Carpentaria Basin underlain by several undrilled depressions
- Mz leads mapped in underlying basins include large 4-way dip closure and stratigraphic traps
- Petroleum potential projected from onshore data and shows
- Water depths <70 m

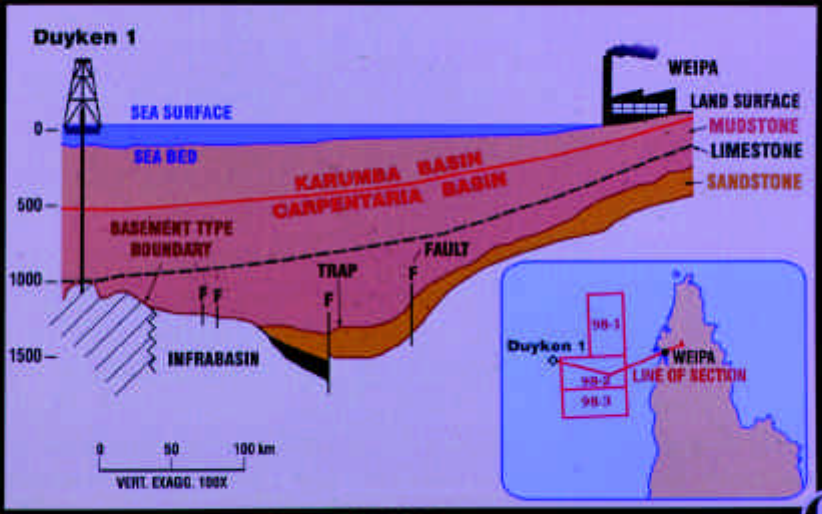
STRATIGRAPHIC TABLE

SED BASIN	AGE	UNIT	LITHOLOGY
Karumba Basin	Quaternary Tertiary	Lynd Formation	Sand, gravel, conglomerate
Carpentaria Basin	Cretaceous	Allaru Mudstone	Mudstone, siltstone, sandstone
		? Toolebuc Fm	Limestone, bitumen, shale
		Wallumbilla Formation	Mudstone, glauconitic sandstone
		Gilbert River Fm	Sandstone, shale, conglomerate
	Jurassic	Garraway beds	Sandstone, siltstone
Unnamed	? Permo-Triassic	Unnamed	? Sandstone, shale, coal
Bamaga Basin	? Palaeozoic	Unnamed	Possible carbonates and clastics
		Basement Rocks	

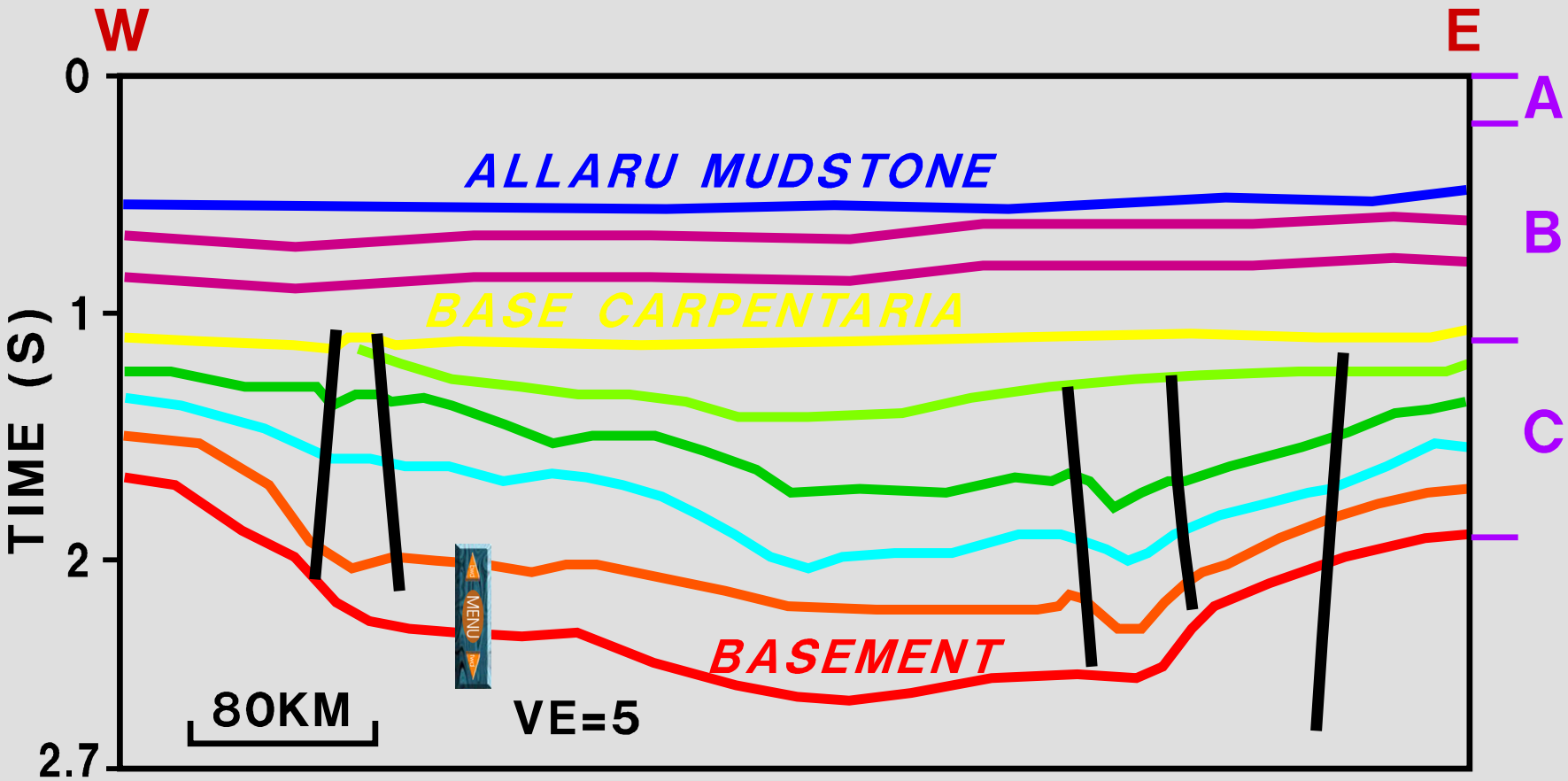
● POSSIBLE SOURCE
● POSSIBLE RESERVOIR

AFTER PASSMORE & OTHERS (1993)

CROSS SECTION

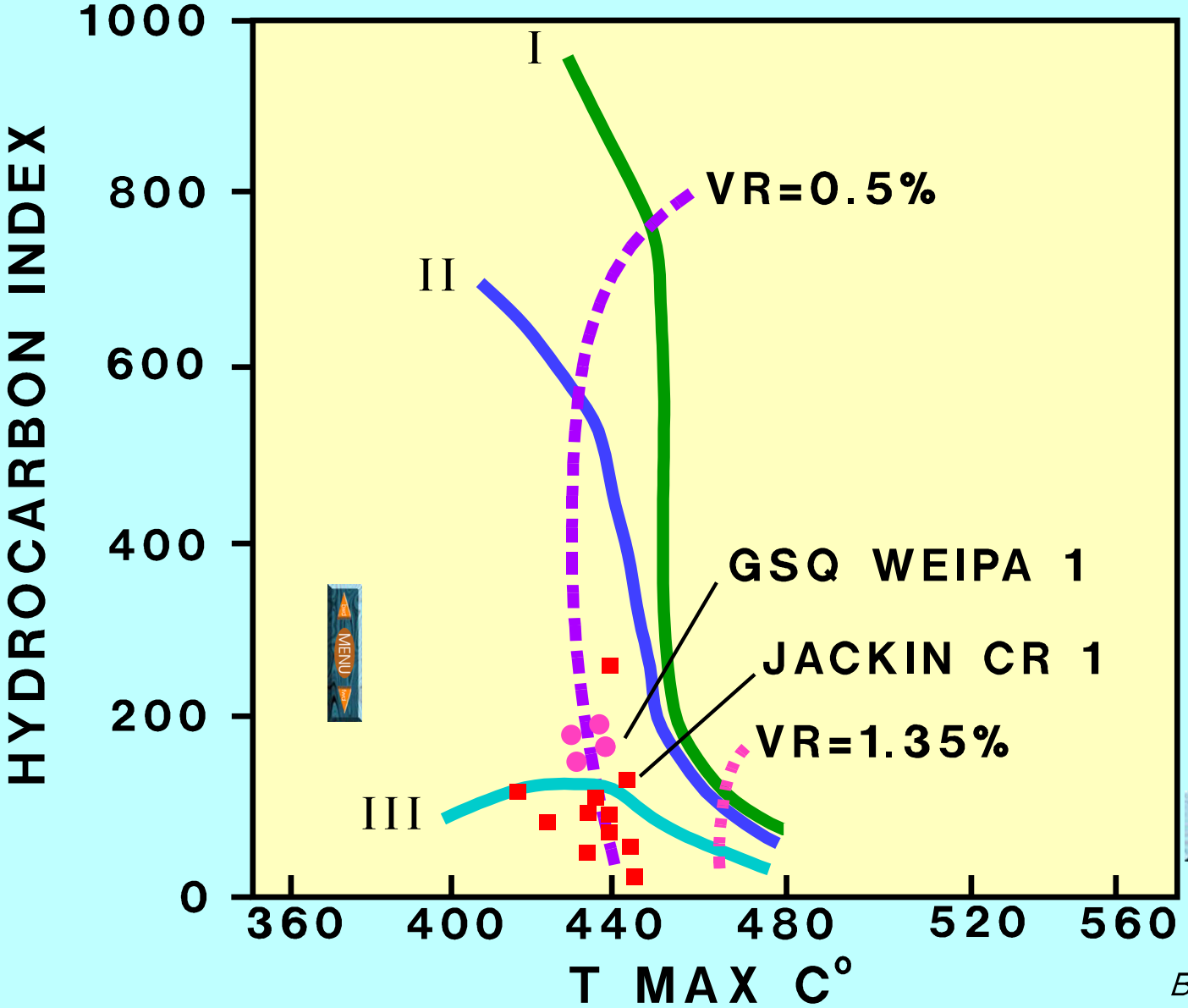


AFTER McCONACHIE & OTHERS (1994)

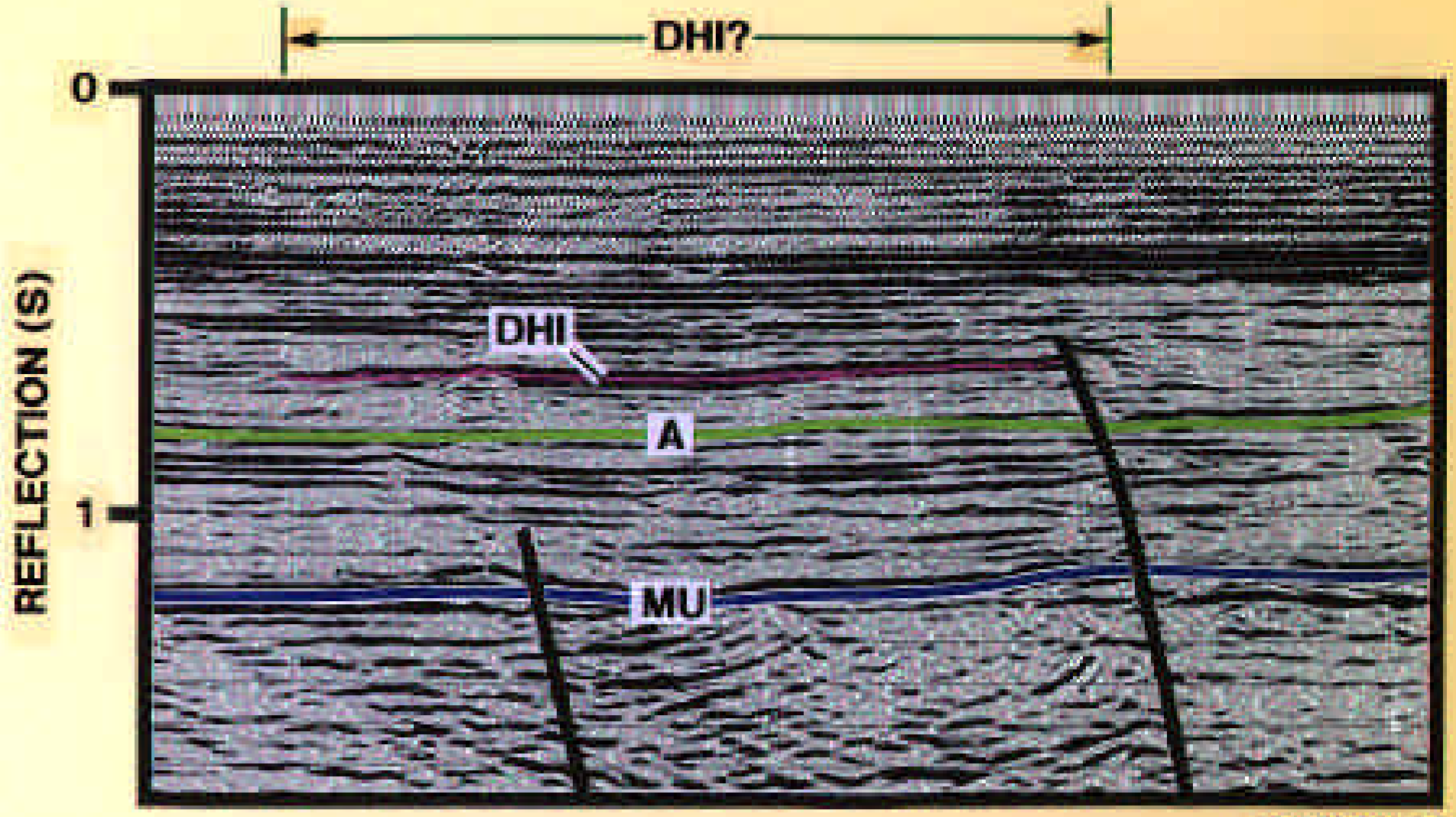


A KARUMBA BASIN
B CARPENTARIA BASIN
C BAMAGA BASIN

BMR 92/141A


HYDROCARBON INDEX
1000
800
600
400
200
0
360
400
440
480
520
560
T MAX C°
I
II
III
VR=0.5%
VR=1.35%
GSQ WEIPA 1
JACKIN CR 1
MENU

BRS 93/10



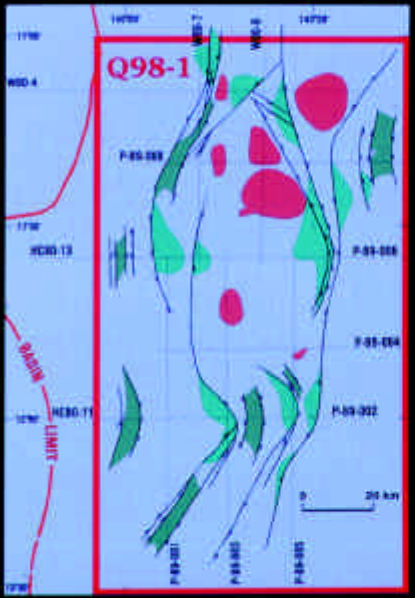
BRS 93/11

A Allaru Mudstone

MU Base of Carpentaria

2 KM

bwd MENU fwd

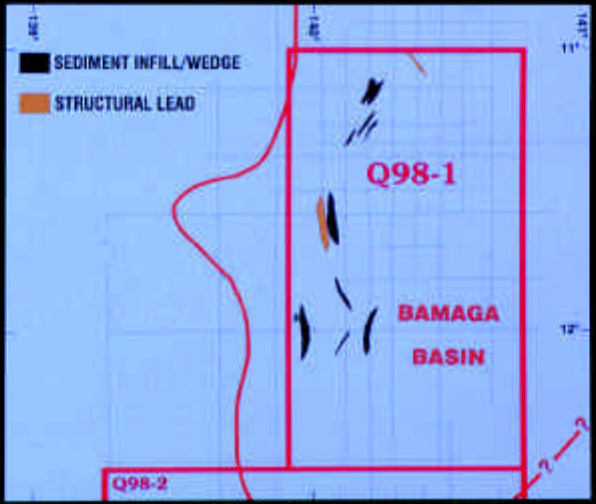


LEADS AND PLAYS - BAMAGA BASIN AREA Q98-1

- HORSTS
- ANTICLINAL CLOSURE
- FAULT DEPENDENT CLOSURE
- FAULTS

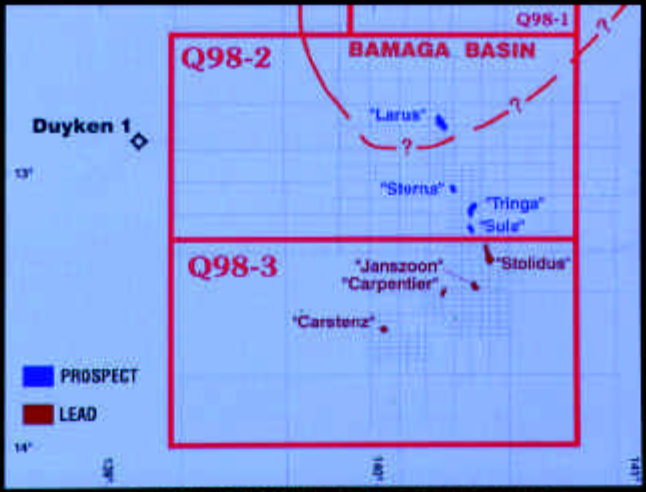
AFTER PASSMORE & OTHERS (1993)

LEADS AND PLAYS - CARPENTARIA BASIN
AREA Q98-1



AFTER PASSMORE & OTHERS (1993)

LEADS AND PROSPECTS - CARPENTARIA BASIN AREAS Q98-2 & Q98-3



AFTER McCONACHIE & OTHERS (1994)