

# IONA-1

Location: Onshore Otway Basin  
 Latitude: 38 34 30.46 S  
 Longitude: 143 01 57.33 E

G.L. Elevation = 126.5 m  
 Total Depth Drilled (KB) = 1490 m; Depth logged (KB) = 1487.27 m  
 KB Elevation = 131.4 m amsl  
 Seismic line reference: OB81A-62, sp 235

Completed March 23, 1988 by Beach Petroleum N.L.  
 Status = Gas Producer

Lithostratigraphy by Geoff Geary (1998)  
 Lithological interpretation by Natalia Liberman (1998)  
 Palynology by Morgan (1988) Dinoflagellate zonation updated by Patridge (1996)  
 Produced by the Basin Studies Group 04-Jun-200



## Lithological legend

<b>Carbonate Lithotypes</b>	<b>Siliciclastic Lithotypes</b>	<b>Others</b>
Limestone	Conglomerate	l'bedded sandstone & mudstone
Limestone, sandy	Sandstone, pebbly	Siltstone
Limestone, dolomitic	Sandstone	Mudstone (shale)
Dolomite	Sandstone, calcareous	Mudstone, calcareous
Dolomite, calcareous	Sandstone, argillaceous	Claystone
Marl	Sandstone, glauconitic	Coal
	"Greensand"	

N.B. Not all lithological patterns in the legend have been used in this wellsheet.

## Palynological scheme legend

**SPORE-POLLEN:**

T. be	= T. bellus
P. tu	= P. tuberculatus
N. as	= N. asperus
P. as	= P. asperopolus
M. di	= M. diversus
L. ba	= L. balmel
F. lo	= F. longus
T. li	= T. lilliei
N. se	= N. senectus
T. ap	= T. apoxyxinus
P. ma	= P. mawsonii
H. un	= H. uniformis (A. di = A. distocarinatus)
P. pa	= P. pannosus
C. pa	= C. paradoxa
C. st	= C. striatus
C. hu	= C. hughesii
P. no	= P. notensis
F. wo	= F. wonthaggiensis
C. au	= C. australiensis
R. wa	= R. watheroensis

**DINOFAGELLATES:**

W. th	= W. thompsonae
C. in	= C. incompositum
H. ta	= H. tasmaniense
D. he	= D. heterophlycta
A. hy	= A. hyperacantha
A. ho	= A. homomorphom
E. cr	= E. crassitabulata
T. ev	= T. evittii
P. py	= P. pyrophorum
M. dr	= M. druggii
I. ko	= I. korojenense
X. au	= X. australis
N. ac	= N. aceris
I. ro	= I. rotundatum
O. po	= O. porifera
C. st	= C. striatoconus
P. in	= P. infusorioides

N.B. Not all palynological zones in the legend have been used in this wellsheet.

## Hydrocarbon shows/tests legend

	Gas show (weak)
	Gas show (strong)
	Gas zone
	Oil show (weak)
	Oil show (strong)
	Oil zone
	Oil/gas show (weak)
	Oil/gas show (strong)
	Oil fluorescence
	CO2 zone
	RFT test

N.B. Not all hydrocarbon symbols in the legend have been used in this wellsheet.

## Accessory minerals legend

C - carbonaceous debris  
 P - pyrite  
 G - glauconite  
 M - mica

Arrowheads indicate SWC range & abundance  
 Patterns indicate cuttings/core range & abundance

	trace		common
	minor		abundant

## Pristane/Phytane Legend

< 1.5 Anoxic - Subaqueous (lacustrine or marine)  
 1.5 - 3.0 Trans - Transitional environment  
 > 3.0 Oxidic - Subaerial environment

## Palynologists' environments legend

nm - non marine  
 lac - lacustrine  
 est - estuarine  
 mm - marginal marine  
 ns - nearshore marine  
 om - offshore marine

N.B. Environments are based on spore-pollen/dino ratios.

