

IONA-1

Location Onshore Otway Basin
 Latitude 38 32 26.0S
 Longitude 141 21 42.0E
 Ground Level = 126.5 m amsl
 Total Depth Drilled (KB) = 1490 m
 KB Elevation = 131.4 m amsl
 Seismic line reference OB81A-62, sp 235

Completed 23-Mar-1988 by Beach Petroleum
 Status = Gas Producer

Lithostratigraphy by Geoff Geary (1998)
 Lithological interpretation by Natalya Liberman (1998)

Palynology by Morgan (1988)
 Produced by the Basin Studies Group 27-Mar-1998
 for Enclosure 26, VIMP55



Lithological legend

Carbonate Lithotypes	Siliciclastic Lithotypes	Others
Limestone	Conglomerate	Coal
Limestone, sandy	Sandstone, pebbly	Extrusive rocks
Limestone, dolomitic	Sandstone	Mafic sills
Dolomite	Sandstone, carbonaceous	Plutonic rocks
Dolomite, calcareous	Sandstone, argillaceous	Metamorphic rocks
Marl	Sandstone, glauconitic	
	"Greensand"	
	l'bedded sandstone & mudstone	
	Siltstone	
	Siltstone, carbonaceous	
	Mudstone (shale)	
	Mudstone, carbonaceous	
	Mudstone, calcareous	
	Claystone	

Palynological scheme legend

SPORE-POLLEN:	DINOFLAGELLATES:
T. be = T. bellus P. tu = P. tuberculatus N. as = N. asperus P. as = P. asperopolus M. di = M. diversus L. ba = L. balmei F. lo = F. longus T. li = T. lilliei N. se = N. senectus T. ap = T. apoxyxenus P. ma = P. mawsonii H. un = H. uniforma (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. worthagglensis C. au = C. australiensis R. wa = R. watheroensis	C. in = C. incompositum D. he = D. heterophlycta A. hy = A. hyperacantha A. ho = A. homomorphum E. cr = E. crassitabulata T. ev = T. evittii M. dr = M. druggii I. ko = I. korojenense X. au = X. australis N. ac = N. aceras I. cr = I. cretaceum O. po = O. porifera C. st = C. striatoconus P. in = P. infusorioides

Hydrocarbon shows legend

Gas show (weak)
Gas show (strong)
Gas well
Oil show (weak)
Oil show (strong)
Oil well
Oil/gas show (weak)
Oil/gas show (strong)
Oil fluorescence

S/W core - recovered

Dino/Spore-pollen legend	
absent	moderate
very low	high
low	very high

Accessory minerals legend

C - carbonaceous debris (magenta)	trace	common
S - shell debris (blue)	minor	abundant
G - glauconite (green)		
M - mica (red)		

arrows indicate SWC range & abundance
 patterns indicate cuttings/core range & abundance

Palynological environments legend

non mar. - non marine environ.	marg. mar. - marginal marine
lac. - lacustrine environment	nearshore - nearshore marine
estu. - estuarine	offshore - offshore marine

Pristane/Phytane Ratio legend

Aqu - Aqueous, lacustrine or marine
Int - Intermediate
Ter - Terrestrial

