

# LA BELLA-1

Location: Offshore Otway Basin  
 Latitude: 39 00 14.194 S  
 Longitude: 142 41 42.927 E

Water Depth = 94.2 m  
 Total Depth Drilled (KB) = 2735 m; Depth logged (KB) = 2743.96 m  
 KB Elevation = 25.3 m amsl

Seismic line reference: OE80A-1056, sp 2508

Completed February 15, 1993 by BHP Petroleum  
 Status = Plugged & abandoned; Sub-commercial gas

Lithostratigraphy by Geoff Geary (1998)  
 Lithological interpretation by Natalia Liberman (1998)  
 Palynology by R. Morgan & N. Hooker (1993), J. Partridge (1996)  
 Produced by the Basin Studies Group 04-Jun-2000



## Lithological legend

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

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

## Palynological scheme legend

SPORE-POLLEN:	DINOFAGELLATES:
T. be = T. bellus	W. th = W. thompsonae
P. tu = P. tuberculatus	C. in = C. incompositum
N. as = N. asperus	H. ta = H. tasmanense
P. as = P. asperopolus	D. he = D. heterophlycta
M. di = M. diversus	A. hy = A. hyperacantha
L. ba = L. balmei	A. ho = A. homomorphom
F. lo = F. longus	E. cr = E. crasitabulata
T. li = T. lilliei	T. ev = T. evittii
N. se = N. senectus	P. py = P. pyrophorum
T. ap = T. apoxyxenus	M. dr = M. druggii
R. ma = R. mawsonii	I. ko = I. korolevense
H. un = H. uniformis (A. di = A. distocarinatus)	X. au = X. australis
P. pa = P. pannosus	N. ac = N. aceras
C. pa = C. paradoxa	I. ro = I. rotundatum
C. st = C. striatus	I. cr = I. cretaceum
C. hu = C. hughesii	O. po = O. porifera
P. no = P. notensis	C. st = C. striatococcus
F. wo = F. wonthaggiensis	P. in = P. infusorioides
C. au = C. australiensis	
R. wa = R. watheroensis	

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
☉	CO <sub>2</sub> zone
⊙	RFT test

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

## Accessory minerals legend

C - carbonaceous debris	trace	common
P - pyrite	minor	abundant
G - glauconite		
M - mica		

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

## Pristane/Phytane Legend

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

nm - non marine  
 lac - lacustrine  
 est - estuarine

## Palynologists' environments legend

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

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

