

NAUTILUS-A1

Location: Offshore Otway Basin
 Latitude: 38 58 40.97 S
 Longitude: 142 32 45.74 E

Water Depth = 128.05 m
 Total Depth Drilled (KB) = 2010.77 m;
 Depth logged (KB) = 2009.703 m
 KB Elevation = 28.35 m amsl

Seismic line reference: EP-22,sp 6550
 Completed May 10, 1968 by Esso Australia Ltd.
 Status = Plugged & abandoned

Lithostratigraphy by Geoff Geary (1998)

Lithological interpretation by Natalia Liberman (1998)

Palynology by A.D. Partridge (1996)

Produced by the Basin Studies Group 19-May-99
 for Enclosure 2 VIMP68



Lithological legend

Carbonate Lithotypes	Siliciclastic Lithotypes	Others
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.

Accessory minerals legend

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

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

Pristane/Phytane Legend

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

Palynological scheme legend

SPORE-POLLEN:	DINOFLAGELLATES:
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. balmel	A. ho = A. homomorphom
F. lo = F. longus	E. cr = E. crassitabulata
T. il = T. illiei	T. ev = T. evittii
N. se = N. senectus	P. py = P. pyrophorum
T. ap = T. apoxyxinus	M. dr = M. druggii
P. ma = P. mawsonii	I. ko = I. korjenense
H. un = H. uniforma (A. di = A. distocarinitus)	X. au = X. australis
P. pa = P. pannosus	N. ac = N. aceris
C. pa = C. paradoxa	I. ro = I. rotundatum
C. st = C. striatus	I. cr = I. crataceum
C. hu = C. hughesii	O. po = O. porifera
P. no = P. notensis	C. st = C. striatoconus
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.
N.B. Environments are based on spore-pollen/dino ratios.

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 ₂ zone
♁	RFT test

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

