

NAUTILUS-A1

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

Water Depth = 128.05 m
 Total Depth Drilled (KB) = 2010.77 m
 KB Elevation = 28.35 m amsl
 Seismic line reference OE80A-1036, near sp 2304

Completed 10-May-1968 by Esso Australia Ltd.
 Status = Plugged & abandoned
 Lithostratigraphy by Geoff Geary (1998)
 Lithological interps by Natalya Liberman (1998)
 Palynology by A.D. Partridge (1996)
 Produced by the Basin Studies Group 05-Mar-98 for Enclosure 21 VIMP55



Lithological legend

Carbonate Lithotypes	Siliclastic 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	

Dino/Spore-pollen legend

SW core - recovered
 very low moderate high very high
 absent low high abundant
 arrows indicate SWC range & abundance
 patterns indicate cuttings/core range & abundance

Accessory minerals legend

C - carbonaceous debris (magenta)
 S - shell debris (blue)
 G - glauconite (green)
 M - mica (red)
 patterns indicate SWC range & abundance
 arrows indicate cuttings/core range & abundance

Palynological scheme legend

SPORE-POLLEN:
 T. be = T. bellus
 P. tu = P. tuberculatus
 N. as = N. asperus
 P. as = P. asperopodus
 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. mavesonii
 H. un = H. uniforma (A. di = A. distocarinus)
 P. pa = P. pannosus
 C. pa = C. paradoxa
 C. st = C. striatus
 C. hu = C. hughesii
 P. no = P. notensis
 F. wo = F. worthaggenensis
 C. au = C. australiensis
 R. wa = R. watheroensis

DINOFLAGELLATES:
 C. in = C. incompositum
 D. he = D. heterophlycta
 A. hy = A. hyperacantha
 A. ho = A. homomorphom
 E. cr = E. crassitabulata
 T. ev = T. evittii
 M. dr = M. druggii
 I. ko = I. korjajenense
 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

Palynological environments legend

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

Pristane/Phytane Ratio legend

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

