

MUSSEL-1

Location: Offshore Otway Basin
 Latitude: 38 57 45.99 S
 Longitude: 142 46 21.67 E

Water Depth = 85.3 m
 Total Depth Drilled (KB) = 2449.98 m; Depth logged (KB) = 2286.16 m
 KB Elevation = 30.18 m amsl
 Seismic line reference: OE80A-1060, near sp 2808; EO-31, sp 6063

Completed September 16, 1969 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 04-Jun-2000



Lithological legend

Carbonate Lithotypes	Siliciclastic Lithotypes	Others
Limestone	Conglomerate	'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"	

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 Oxid - Subaerial environment

Palynological scheme legend

SPORE-POLLEN:

T. be = T. bellus	DINOFLAGELLATES:
P. tu = P. tuberculatus	W. th = W. thompsonae
N. as = N. asperus	C. in = C. incompositum
P. as = P. asperopolus	H. ta = H. tasmanienae
M. di = M. diversus	D. he = D. heterophycta
L. ba = L. balmel	A. hy = A. hyperacantha
F. lo = F. longus	A. ho = A. homomorphom
T. li = T. lilliei	E. cr = E. crassitabulata
N. se = N. senectus	T. ev = T. evittii
T. ap = T. apoxyxinus	P. py = P. pyrophorum
P. ma = P. mawsonii	M. dr = M. druggii
H. un = H. uniforma (A. di = A. distocarinate)	I. ko = I. korojenense
P. pa = P. pannosus	X. au = X. australis
C. pa = C. paradoxa	N. ac = N. aceras
C. st = C. striatus	I. ro = I. rotundatum
C. hu = C. hughesii	I. cr = I. cretaceum
P. no = P. notensis	O. po = O. porifera
F. wo = F. wonthaggiensis	C. st = C. striatoconus
C. au = C. australiensis	P. in = P. infusorioides
R. wa = R. watheroensis	

Palynologists' environments legend

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

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

