

# FLATHEAD-1

Location: Offshore Gippsland Basin  
 Latitude: 38 01 21 S  
 Longitude: 148 32 04 E

Water Depth = 53 m  
 Total Depth Drilled (KB) = 1074.4 m; Depth Logged (KB) = 1070.305 m  
 KB Elevation = 9.4 m amsl  
 Seismic line reference: EH-120A, sp 8524

Completed May 26, 1969 by Esso Standard Oil Australia Ltd.  
 Status = Plugged & abandoned, non-commercial oil discovery

Lithostratigraphy by Tom Bernecker (1998)  
 Lithological interpretation by Natalia Liberman (1998)  
 Palynology by L.E. Stover (1970); Shell Palyn Report (1985)  
 Produced by the Basin Studies Group 05-Jun-2000



## Lithological legend

<b>Carbonate Lithotypes</b>	<b>Siliciclastic Lithotypes</b>	<b>Others</b>
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	
	Sandstone, calcareous	
	Sandstone, argillaceous	
	Sandstone, glauconitic	
	Coal	
	"Greensand"	

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

## Accessory minerals legend

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

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

## Palynological scheme legend

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

N.B. Not all palynological zones in the legend have been used in this wellsheet.

## 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 <sub>2</sub> zone
	RFT test

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

