

# CASTERTON-1

Location: Onshore Otway Basin  
 Latitude: -37.6127378 S  
 Longitude: 141.3345776 E

G.L. elevation = 140.5 m  
 Total Depth Drilled (KB) = 2494.2 m  
 KB Elevation = 143.9 m amsl  
 Seismic line reference: OAGL92A-09, vp 1220

Completed April, 1965 by Planet Exploration Co. P.L.  
 Status = Plugged & abandoned

Lithostratigraphy by Ciaran Lavin, 1996  
 Lithological interpretation from composite well log, WCR  
 Palynology by R. Morgan, 1997  
 Produced by the Basin Studies Group 06-Oct-2001



## 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"	

## 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

## Palynological scheme legend

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

## Palynologists' environments legend

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

