

HEATHFIELD_1

Location: OTWAY BASIN
 Latitude: -37.6249593 S
 Longitude: 141.1851312 E

Total Depth Drilled (KB) = 2286 m
 KB Elevation = 74.4 m amsl
 Seismic line reference: OBR88A-18, 330m SE En SP 362

Completed by Planet Exploration 1964
 Status = P&A

Lithostratigraphy by C.Lavin 1996
 Lithological interpretation BMR Geology & Geophysics Record No. 1965/100
 Palynology by Dettmann (1969 1970), Morgan 1989
 Produced by the Basin Studies Group 25-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"	

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

Palynological scheme legend

SPORE-POLLEN:

T. be	= T. bellus
P. tu	= P. tuberculatus
N. as	= N. asperus
P. as	= P. asperopolus
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. mawsonii
H. un	= H. uniforma (A. di = A. distocarinatus)
P. pa	= P. pannosus
C. pa	= C. paradoxa
C. st	= C. striatus
C. hu	= C. hughesii
P. no	= P. nolensis
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. korojenense
X. au	= X. australis
N. ac	= N. aceras
I. ro	= I. rotundatum
I. cr	= I. cretaceum
O. po	= O. porifera
C. st	= C. striatoconus
P. in	= P. infusorioides

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

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
	CO2 zone
	RFT test

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

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 Oxidic - Subaerial environment

Palynologists' environments legend

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

N.B. Environments are based on spore-pollen/dino ratios.

