SQUATTER_1

Location: OTWAY BASIN
Latitude: -37.8727756 S
Longitude: 141.1359521 E

Total Depth Drilled (KB) = 1493 m
KB Elevation = 61.67 m amsl
Seismic line reference: OB85A-250 SP285

Completed by BEACH PETROLEUM 1987
Status = P&A

Lithostratigraphy by WCR
Lithological interpretation WCR
Palynology by Morgan 1987
Produced by the Basin Studies Group 26-Oct-2001

State Government Victoria AUSTRALIA
Department of Primary Industries

Lithological legend

Carbonate Lithotypes
- Limestone
- Limestone, sandy
- Limestone, dolomitic
- Dolomite
- Dolomite, calcareous
- Marl

Siliciclastic Lithotypes
- Conglomerate
- Sandstone, pebbly
- Sandstone
- Sandstone, calcareous
- Sandstone, argillaceous
- Sandstone, glauconitic
- "Greensand"
- l'bedded sandstone & mudstone
- Siltstone
- Mudstone (shale)
- Mudstone, calcareous
- Claystone
- Coal

Others
- Extrusive rocks
- Mafic sills
- Plutonic rocks
- Metamorphic rocks

N.B. Not all lithological patterns 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 | minor | common | abundant

Pristane/Phytane Legend

< 1.5 Anoxic - Subaqueous (lacustrine or marine)
1.5 - 3.0 Trans - Transitional environment
> 3.0 Oxic - Subaerial environment

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. apoxyexinus
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. notensis
F. wo	= F. wonthaggiensis
C. au	= C. australiensis
R. wa	= R. watheroensis

DINOFLAGELLATES:

C. in	= C. incompositum
D. he	= D. heterophylcta
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.

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.

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

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

Depth(kb) | Casing | CALS 3 IN 23 | SP -20 MV 150 | GR 0 GAPI 200 | Lithologies | Sidewall | Core | Accessory minerals C P G M | LLS 0.2 OHMM 2000 | LLD 0.2 OHMM 2000 | DRHO -0.4 G/CC 0.1 | RHOB 1.95 G/CC 2.95 | NPHI 0.45 V/V -0.15 | Sonic Log 140 US/F 40 | TWT (ms) datum (msl) | Lithostratigraphy | Palynologists' palaeoenvirons nm lac est mm ns om | Spore/pollen zones | Dino zones | Hydrocarbon shows/tests: Show | Tests | Description | Pristane/Phytane: Ratio | Environ | Palaeoenvironment from integrated analysis | Sequence stratigraphic scheme | Depth(kb)

TWT (ms) datum (msl)	Lithostratigraphy
0	Heytesbury Gp.
100	Nirranda Group
200	
300	
400	Dilwyn Fmn.
500	
600	Pember Mudstone
700	Pebble Point Fmn.
700	Timboon Sand Memb.
800	
900	Paaratte Fmn.
1000	
1100	Belfast Fmn.
1100	Waarre Fmn.
1100	Eumeralla Fmn.

Depth(kb): 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400

Spore/pollen zones / Dino zones:
- up M. di ?
- L. ba
- L. ba/T. lo
- T. lo — M. dr
- T. ap — N. ac
- P. ma
- P. in
- P. pa