ANGLER-1

Location: Offshore Gippsland Basin
Latitude: -38.6582935 S
Longitude: 148.4426975 E

Total Depth Drilled (KB) = 4350 m
KB Elevation = 27 m amsl
Seismic line reference: GF88A-96/680

Completed: May 1989 by Petrofina
Status = Plugged & abandoned, non-commeraial gas discovery

Lithostratigraphy: from Angler-1 WCR by Petrofina
Lithological interpretation based on geological description Angler-1 WCR
Palynology by Petrofina 1989
Produced by the Basin Studies Group 25-Jan-1996 by L.A. Knight and N. Novosell

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"
- I'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 — common
minor — 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. watherooensis

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 5 INCHES 25 | SP 0 MV 100 | GR 0 GAPI 200 | Lithologies | Sidewall | Core | Accessory minerals C P G M | ILM 0.1 OHMM 100 | ILD 0.1 OHMM 100 | LLS 0.1 OHMM 100 | LLD 0.1 OHMM 100 | 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)

Depth (kb)	Lithostratigraphy
400	Gippsland Limestone
1100	Lakes Entrance Fm
1800	Gurnard Fm
2100	Latrobe Siliciclastics
2400	

Depth (kb)	Spore/pollen zones	Hydrocarbon shows/tests: Show	Tests	Description
2800	P. tu			
2850	lw N. as			
2870	lw P. as			
2900	up M. di			
3000	up F. lo		I.	
3050	md F. lo			
3200				gas & oil show; oil tr mod. bright yello
3300	lw F. lo			
3500				tr mod bright yellow green fluor
3550				tr dull yellow gold fluor
3700				dull gold fluor
3800				bright yellow fluor
3900	T. li			
4000			I.	tr mod bright green yellow fluor
4200				mod pale yellow fluor
4250	up N. se			tr very dull yellow fluor