JUDITH-1

Location: Offshore Gippsland Basin
Latitude: 38 09 18.47 S
Longitude: 148 33 20.11 E

Water Depth = 76.4 m
Total Depth Drilled (KB) = 2958 m; Depth Logged (KB) = 2961.134 m
KB Elevation = 21 m amsl
Seismic line reference: GL88-26, sp 600

Completed November 16, 1989 by the Shell Company of Australia
Status = Plugged & abandoned

Lithostratigraphy by Tom Bernecker (1998)
Lithological interpretation by Karina Jonasson (1998)
Palynology by M.K. Macphail (1990)
Produced by the Basin Studies Group 05-Jun-2000

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. 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 | CALI 1 IN 10 | SP -50 MV 100 / 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)

Casing: 20" | 13-3/8" | 9-5/8"

Lithostratigraphy:
- Gippsland Limestone
- Lakes Entrance Fm
- Gurnard Fm
- Latrobe Siliciclastics
- Campanian Volcanics
- Golden Beach Subgroup
- Emperor Subgroup

Spore/pollen zones:
- P. tu
- up N. as
- md N. as
- lw N. as
- P. as
- md M. di
- lw M. di
- A. hy
- up L. ba
- lw L. ba
- up F. lo
- lw F. lo
- Indet
- P. ma
- ? A. di
- Indet.