

COMLEY_1

Location: GIPPSLAND BASIN

Latitude: -37.899417 S

Longitude: 147.5588582 E

Total Depth Drilled (KB) = 531 m

KB Elevation = 52 m amsl

Seismic line reference: GM83A-18/206.5

Completed June 1985 by Ampol

Status = Plugged & abandoned

Lithostratigraphy by Petroleum Operations Branch

Lithological interpretation from WCR Comley-1

Palynology by A. Partridge

Produced by the Basin Studies Group 19-June-1996

L.A. Knight & N. Novosell



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
- minor
- common
- abundant

Pristane/Phytane Legend

- < 1.5 Anoxic - Subaqueous (lacustrine or marine)
- 1.5 - 3.0 Trans - Transitional environment
- > 3.0 Oxid - 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. apoxyxinus
- P. ma = P. mawsonii
- H. un = H. uniforma (A. di = A. distocarinus)
- 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. korjenense
- 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. infusoriooides

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
- CO₂ zone
- RFT test

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

