# WHALE-1

Location: Offshore Gippsland Basin
Latitude: 38 01 17.182 S
Longitude: 148 33 34.172 E

Water Depth = 52 m
Total Depth Drilled (KB) = 810 m; Depth Logged (KB) = 813.511 m
KB Elevation = 9.45 m amsl
Seismic line reference: GB81-41, sp 134.9

Completed December 25, 1981 by Hudbay Oil (Australia) Ltd.
Status = Plugged & abandoned

Lithostratigraphy by by Tom Bernecker (1998)
Lithological interpretation by K. Jonasson & N. Liberman (1998)
Palynology by W.K. Harris (1982)
Produced by the Basin Studies Group 05-Jun-200

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 |

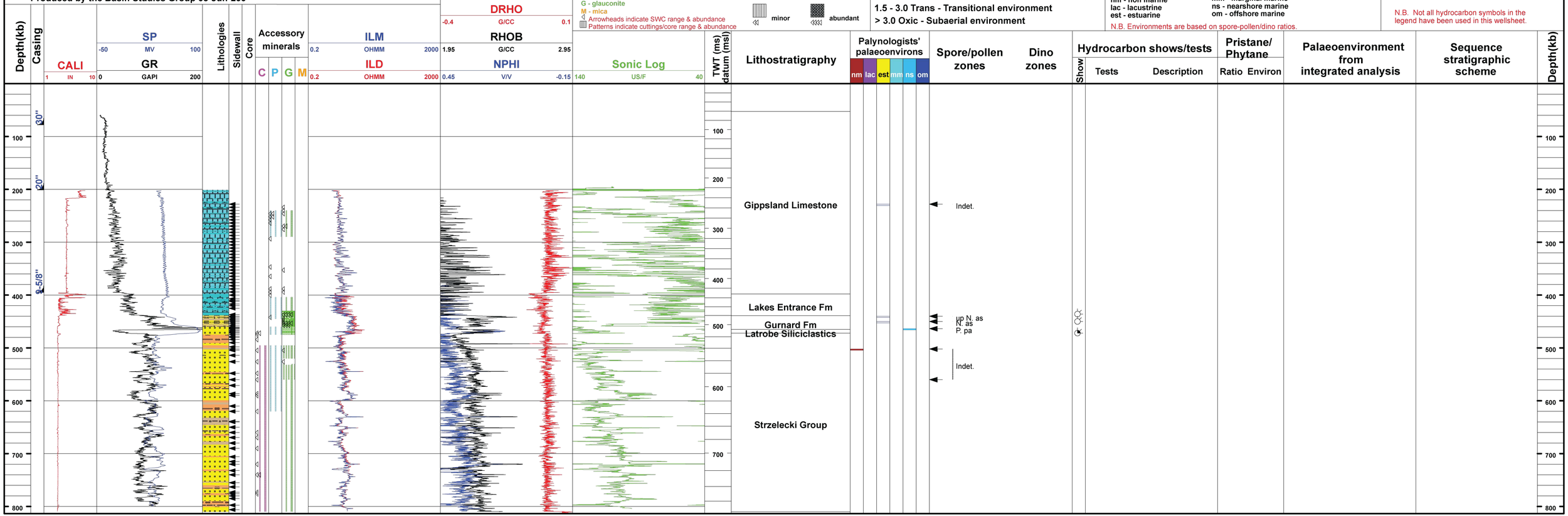
N.B. Not all palynological zones in the legend have been used in this wellsheet.

## 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.