

# VEILFIN-1

Location: Offshore Gippsland Basin  
 Latitude: 38 25 02.4 S  
 Longitude: 148 00 08.4 E



Total Depth Drilled (KB) = 3521 m; Depth Logged (KB) = 3524.402 m  
 KB Elevation = 21 m amsl  
 Seismic line reference: G88A-9066, sp 3203.6 & G92A-3013, sp 2107.7

Completed April 14, 1984 by ESSO Australia Ltd  
 Status = Plugged and abandoned

Lithostratigraphy from Well Completion Report  
 Lithological interpretation by Jim Driscoll (2001)  
 Palynology by M.J. Hannah & M.K. MacPhail (1984)  
 Produced by the Basin Studies Group 09-May-2001

## Lithological legend

<b>Carbonate Lithotypes</b>	<b>Siliciclastic Lithotypes</b>	<b>Others</b>
Limestone	Conglomerate	Extrusive rocks
Limestone, sandy	Sandstone, pebbly	Mafic sills
Limestone, dolomitic	Sandstone	Plutonic rocks
Dolomite	Sandstone, calcareous	Metamorphic rocks
Dolomite, calcareous	Sandstone, argillaceous	
Marl	Sandstone, glauconitic	
	"Greensand"	
		Coal

*N.B. Not all lithological patterns in the legend have been used in this wellsheet.*

## Palynological scheme legend

**SPORE-POLLEN:**

- T. be = T. bellus
- P. lu = P. luteolus
- N. as = N. asperus
- P. as = P. asperoporus
- M. di = M. diversus
- L. ba = L. balneii
- F. lo = F. longus
- T. li = T. lilioides
- N. se = N. senectus
- T. ap = T. apogonatus
- P. ma = P. mawsonii
- H. un = H. uniformis (A. di = A. distocarinatus)
- C. pa = C. paradoxus
- C. st = C. striatulus
- C. hu = C. hughesii
- P. no = P. notensis
- F. wo = F. wongthagensis
- C. au = C. australiensis
- R. wa = R. wethercoensis

**DINOFAGELLATES:**

- C. in = C. incompositum
- D. he = D. heterophlycta
- A. ty = A. tyrocarinatus
- A. ho = A. homomorphum
- E. cr = E. crassilabellata
- T. ev = T. evittii
- M. dr = M. druggii
- I. ko = I. korogense
- X. au = X. australis
- N. ac = N. aceris
- L. ro = L. rotundatum
- I. cr = I. craticum
- O. po = O. porifera
- C. st = C. striatococcus
- P. in = P. infusorioides

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

## 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<sub>2</sub> zone
- RFT test

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

## Accessory minerals legend

- C - carbonaceous debris
- P - pyrite
- G - glauconite
- M - mica

Arrowsheads indicate SWC range & abundance  
 Patterns indicate cuttings/core range & abundance

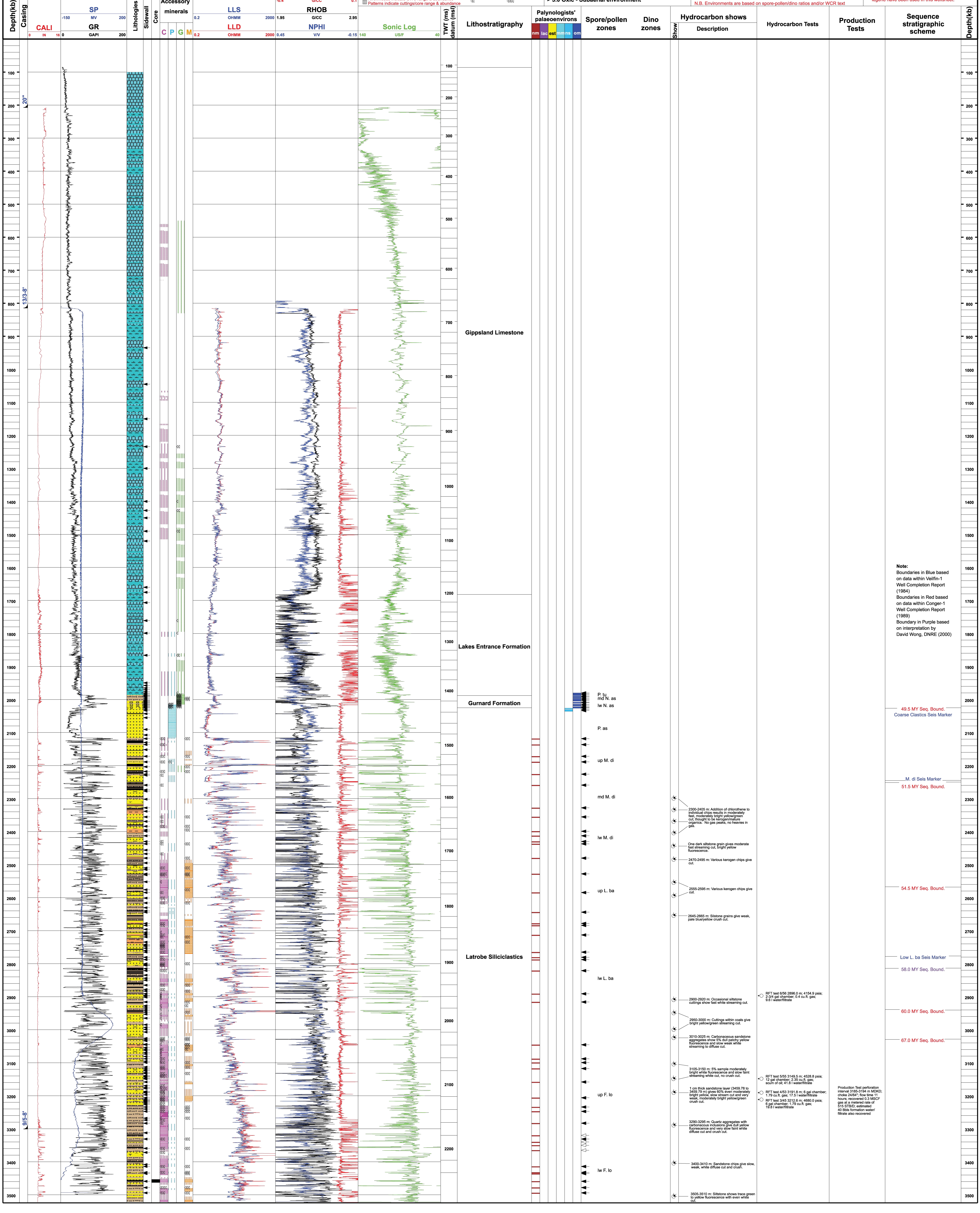
## Pristane/Phytane Legend

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

## Palynologists' environments legend

- nm - non marine
- lac - lacustrine
- est - estuarine
- mm - marginal marine
- ns - nearshore marine
- om - offshore marine
- M. di - Samples from core, swc
- M. di - Samples from cuttings

*N.B. Environments are based on spore-pollen/dino ratios and/or WCR text*



**Note:**  
 Boundaries in Blue based on data within Veilfin-1 Well Completion Report (1984)  
 Boundaries in Red based on data within Conger-1 Well Completion Report (1989)  
 Boundary in Purple based on interpretation by David Wong, DNRE (2000)

49.5 MY Seq. Bound.  
 Coarse Clastics Seis Marker

51.5 MY Seq. Bound.  
 M. di Seis Marker

54.5 MY Seq. Bound.

58.0 MY Seq. Bound.  
 Low L. ba Seis Marker

60.0 MY Seq. Bound.

67.0 MY Seq. Bound.

RFT test 056 3140.0 m; 4208.8 psia; 12 gal chamber; 2.35 cut. gas; 0.61 water/filtrate

RFT test 453 3191.8 m; 4164.9 psia; 1.79 cut. gas; 17.2 water/filtrate

RFT test 345 3212.6 m; 4880.0 psia; 8 gal chamber; 1.79 cut. gas; 16.81 water/filtrate

Production Test performance interval 3185-3188 m MDWD; zone 2464'; flow time 11 hours; recovered 0.3 MCFG gas at a measured rate of 575 STIGU; estimated 40 Bbls formation water/ filtrate also recovered