


PE990584

43/51

WELL COMPLETION REPORT

STONEFISH-1

APPENDIX 3

PALAEONTOLOGICAL DATA SUMMARY

by D.J. Taylor

44/51

BASIN GIPPSLAND

BY David TAYLOR

WELL NAME STONEFISH - 1

DATE 10-10-73 ELEV. _____

Foram Zonules

		Highest Data	Quality	2 Way Time	Lowest Data	Quality	2 Way Time
MIOCENE	A	Alternate					
	B	Alternate					
	C	Alternate			3150	1	
	D	3500	1		4390	0	
	D1	Alternate					
	D2	4868	0		4868	0	
	D2	Alternate					
	E	*5540	0		5540	0	
	E	Alternate					
	F	5630	0		5720	0	
F	Alternate						
G	5740	0		5790	0		
G	Alternate						
H	5850	0		5890	1		
H1	Alternate						
H2	Alternate						
OLIGOCENE	I1	Alternate					
	I2	Alternate					
	J	@5914	1		5914	1	
	J1	Alternate					
J2	Alternate						
EOC.	K	Alternate					
	Pre K						

* 5540 is at the base of E = E-2

@ The low diversity fauna makes it impossible to distinguish between J-1 and J-2.

The ranking of 5914 as 1 refers to the J determination and not to J-1.

No fauna was found in S.W.Cs at 5922, 5955, 6050 & 6150

COMMENTS: The "greensand" of S.W.C. 5914 has been oxidized suggesting a hiatus immediately above it. This is confirmed by the apparent absence of I and H-2 in the sequence.

Note: If highest or lowest data is a 3 or 4, then an alternate 0, 1, 2 highest or lowest data will be filled in if control is available.

If a sample cannot be interpreted to be one zonule, as apart from the other, no entry should be made.

- 0 SWC or Core - Complete assemblage (very high confidence).
- 1 SWC or Core - Almost complete assemblage (high confidence).
- 2 SWC or Core - Close to zonule change but able to interpret (low confidence).
- 3 Cuttings - Complete assemblage (low confidence).
- 4 Cuttings - Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

Date Revised _____

. = 1-20 specimens
I = over 20 specimens

STONEFISH-1 SPECIES LIST.

Sheet 1
of 4 sheets

Depth not to scale	3150	3500	4000	4390	4868	5540	5630	5660	5720	5740	5770	5785	5790	5850	5890	5914	5922	5955	6050	6150	
side wall cores	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
PLANKTONICS																					
1. Orbulina universa	I		.	I	I													N	N	N	N
2. Globigerina aperturea	I	I		I	I	I	I	I	I	I	I	I	I	I	I			0	0	0	0
3. G. woodi woodi	I	I		I	I	I	I	I	I	I	I	I	I	I	I						
4. G. bulloides	I	I	I	I	I	I	I	I	I									F	F	F	F
5. Globorotalia mayeri mayeri	I																	A	A	A	A
6. G. miozea conoidea	I	.	L	I														U	U	U	U
7. G. menardii	.																	N	N	N	N
8. G. mayeri barisacensis		.		I	I													A	A	A	A
9. Globigerinoides trilobus		.	.		I	I	I	I	I	I	I	I	I								
10. Globorotalia peripheroacuta				.	.													F	F	F	F
11. G. peripheroronda				.		I		I										0	0	0	0
12. G. miozea miozea						.	I	I	I		I	I						U	U	U	U
13. Globoquadrina dehiscens							I	I	I	I								N	N	N	N
14. G. advena							I					I	I	I	I			D	D	D	D
15. Globigerinoides bisphericus							I		I	I											
16. G. glomerosa curva							I														
17. Globorotalia praescitula								I		I	I	I									
18. Globigerina woodi connecta									I	I	I	I	I	I	I						
19. Globorotalia zealandica										I	I	I								I	
20. Globoquadrina praedeihiscens										I											
21. Globigerina preabulloides											I	I	I	I							
22. Globorotalia cf. miozea												I	I	I							
23. G. kugleri																					.
24. G. opima continua																					U
25. Globigerina angioporoides																					I
26. G. trilocularis																					I
SNOWBALL core	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
ZONE	C	D-1	D-1	D-1	D-2	E-2	F	F	F	G	G	G	G	H-1	H-1	J		NO DATA	FOUND		
Depth not to scale	3150	3500	4000	4390	4868	5540	5630	5660	5720	5740	5770	5785	5790	5850	5890	5914	5922	5955	6050	6150	

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o = 1-20 specimens

STONEFISH - 1 - SPECIES LIST

Sheet 2

I = more than 20 specimens

of 4 sheets

Depth <u>not to scale</u>	3150	3500	4000	4390	4862	5540	5650	5660	5720	5740	5770	5785	5790	5850	5890	5914	5922	5955	6050	6150	
Sidewall core	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
CALCAREOUS BENTHONICS I																					
27. Cibicides chiara	I		I	I		I												N	N	N	N
28. C. lobatulus (convex)	I		I	I	I													O	O	O	O
29. C. cygnorum		I	I																		
30. C. medicaris		I	I															F	F	F	F
31. C. lobatulus (irregular)			I															A	A	A	A
32. Anomalinoidea macroglabra			I	.			.											U	U	U	U
33. Murreria maoria			.	.														N	N	N	N
34. Gyroidinoides subzelandica			.	.														A	A	A	A
35. Anomalina aotea			.	.																	
36. Melonis sp?			.	.														F	F	F	F
37. Esungularia bengalensis			.	.		.	.	.	.	.	.	.	.	.	.	.	.	O	O	O	O
38. Anomalinoidea procolligera			.	.		.	.	.	.	.	.	.	.	.	.	.	.	U	U	U	U
39. Gyroidina brockiana			.	.		.	.	.	I	.	.	.	.	.	.	.	.	N	N	N	N
40. Cibicides karreriiformis			.	.		.	.	.	.	.	.	.	.	.	.	.	.	D	D	D	D
41. Alabamina sp?			.	.		.	.	.	.	.	.	.	.	.	.	.	.
42. Cibicides cf. mundulus			.	.		.	.	.	.	.	.	.	.	.	.	.	.
43. Laticarinina sp?			.	.		.	.	.	.	.	.	.	.	.	.	.	.
44. Gyroidinoides tenera			.	.		.	.	.	.	.	.	.	.	.	.	.	.
45. G. zelandica			.	.		.	.	.	.	.	.	.	.	.	.	.	.
46. Anomalinoidea vitrinola			.	.		.	.	.	.	.	.	.	.	.	.	.	.
47. "Planulina" vullerstorfi			.	.		.	.	.	.	.	.	.	.	.	.	.	.
48. Cibicides perforatus			.	.		.	.	.	.	.	.	.	.	.	.	.	.
CALCAREOUS BENTHONICS II & III not present																					
CALCAREOUS BENTHONICS IV																					
49. Cassidulina carinata	I	I		I	I																
50. Sphaeroidina bulloides		I		I	I	I				I	I	I	.	I	I						
51. CASSIDULINA subglobosa				I								.									
52. Chilostomella spp.				.								.									
53. Neunionella sp.				.								.									
54. Pullenia spp												
Sidewall core	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
ZONE	C	D-1	D-1	D-1	D-2	E-2	F	F	F	G	G	G	G	H-1	H-1	J					

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. = 1-20 specimens
I = over 20 specimens.

STONEFISH - 1 SPECIES LIST.

Sheet 3
of 4 sheets

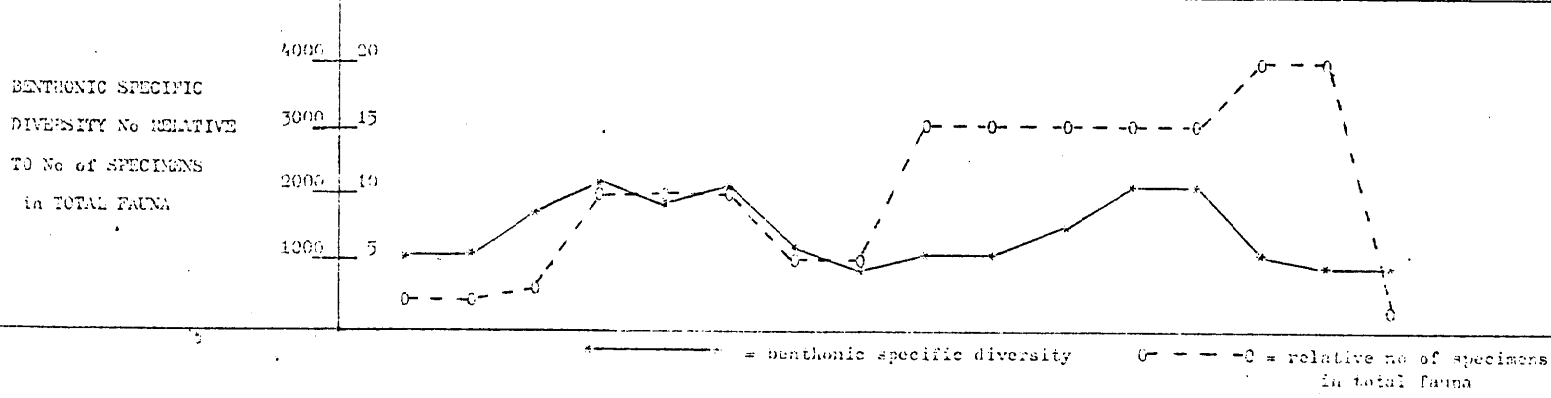
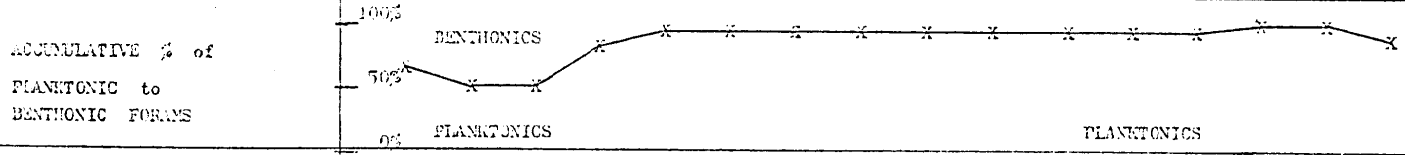
Depth	3150	3500	4000	4590	4868	5540	5630	5660	5720	5740	5770	5785	5790	5850	5890	5914	5922	5933	6050	6150
Sidewall core	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
CALC. BENTHONICS V																				
55. Pleurostomella sp?		.																		
56. Euvigerina miozea			I	I																
57. E. Maynii				I			I													
58. Globbulimina pacifica												.								
59. Brizalina noblis																				
CALC. BENTHONICS VI																				
60. Laguna spp.	I						I			I	I	I								
61. Lenticulina spp.	I	.	.		I	.		.	.	.	.	I	.							
62. Nodosaria spp.	I							.	.	.	.	.	.	
63. Glandulina sp?										.										
64. Lenticulina macilligera												.								
CALC. BENTHONICS VII																				
65. miliolide spp.				.	.															
66. Sigmaliopsis schlunbergi					.			.			.		.	.						I
67. Trileculina sp. (carinate)												.								
ARENACLOUS BENTHONICS - PRIMITIVE																				
68. Ammodiscus sp. (smooth)					.					.										
69. Avelophragidium cf. incisum					.							.								
70. Discarina compressa					.				I			.	.	.						
71. Rhadocamina spp					.				I	.	.	.	.			
72. Bathysiphon sp.B																				
73. Reophax sp.																				
ARENACLOUS BENTHONICS - COMPLEX																				
74. Martinotiella communis					.															
75. Kareriella bradyi					.		.			.	.	.	.
76. Vulvalina granulosa												.	.							
77. Gaudyrina convexa																				
OTHER FAUNA																				
Sponge spicules	I	.																		
Echinoid spines																				

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STONEFISH - 1 SPECIES LIST.

Sheet 4
of 4 sheets.

Depth <u>not to scale</u> ZONE	3150	3500	4000	4300	4868	5540	5630	5660	5720	5740	5770	5785	5790	5850	5890	5914	5922	5935	6050	6150
Side wall corr.	C	D-1	D-1	D-1	D-2	E-2	F	F	F	G	G	G	G	H-1	H-1	J	NO	FAUNA	FOUND	
	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ENVIRONMENTAL ASSEMBLAGES	7	7	7	7/6	6/5	5	5	5	4	4	4	4/3	4/5	3	3	9/8				
	OUTER	SHLEF		SHLEF/SLOPE BREAK		UPPER	SLOPE		LOWER	SLOPE		BASE	SLOPE		CONTINENTAL RISE	TRANSGRESSIVE HIATUS BETWEEN 5914 & 5890				
DIAGNOSTIC SPECIES IN ENVIRONMENTAL ANALYSIS	28	29	28	28	28	37	56	37	37	39	37	42	37	47	47	47	48			
	49	30	29	33	49	68	75	39	40	68	39	43	44	66	57					
		49	30	49	66	69		66	70	71	66	57	66	69	66					
	Sponge spics		51	56	74	70			71	75	71	58	70		70					
			56	57		71					75	69			75					
						75						70								
												71								
												75								
												76								



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LITHOLOGICAL DESCRIPTION of SIDEWALL CORES

from STONEFISH - 1

by David Taylor.....10-10-77

Sidewall

Core No.	Depth	Description of untreated core	Description of residue
	3150	light grey micrite	f. grained calcite, disseminated pyrite, rare ang. qtz + abundant sponge spicules, forams relatively rare
	3500	" " "	as above, but sponge spicules rare
	4000	" " "	f. grained calcite, forams relatively rare.
	4390	grey/brown marl	marl fragments, forams relatively abundant
	4868	grey/brown micrite	f. grained calcite, disseminated pyrite, globigerinids abundant but recrystallized and in smallest specimen size range.
	5540	medium grey micrite	as above but globigerinids specimens within normal size range
	5630	light grey micrite	as above
	5660	" " "	as above
	5720	medium grey micrite	as above
	5740	" " "	as above
	5770	light grey micrite	as above but globigerinid specimens very small size
	5785	" " "	as above but globigerinid specimens in normal size range
	5790	medium grey micrite	as above
	5850	" " "	mainly globigerinids (normal size range) = GLOBIGERINID OOZE + diss. pyr.
	5890	" " "	as above + rare glauconite pellets & ang. qtz.
		HLATUS	
	5914	light to dark brown silty sand with limonite	orange stained m-c ang qtz, limonite pellets (after glauconite), forams, qtz. sandstone fragment with sideritic cement. Therefore sediment is an oxidized "greensand".
	5922	dark grey mudstone & grey/green qtz sandy silt	f-m ang. qtz, mica, carbonaceous matter, brown f. qtz sandstone, no fauna
	5955	grey/green f. qtz sandy silt	f-m ang. qtz, mica, carbonaceous matter, no fauna
	6050	laminated dark grey & green grey f. qtz sandy silt	as above + f. qtz sandstone fragments
	6150	grey/green silty clay	f-m ang. qtz with rare orange silt f. qtz sandstone fragments

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