

I.G.S. Continental Shelf Units

[F] SHEET/STATION NOS. ^{csu 1} **+6100+00** ^{csu 2} **198** NO. OF SAMPLES **17**

ORGANISATION **19** CRUISE NO. **25** DATE **29** TIME **33** GMT **41**

UNCORRECTED DEPTH **37** M POSITION FIXING METHODS **40** COMMENTS **41**

PRIMARY FIXING METHOD **chain** **red** **green** **purple** **64**

COMPUTED/MANUAL LATITUDE **72** LONGITUDE **80**

SECONDARY FIXING METHOD **chain** **pattern 1** **pattern 2**

SITINGS	BEARING °T	RANGE

EQUIPMENT	CORRECTED DEPTH _____ O.D.	CARBONATE %	GRAVEL %	SAND %	SILT & CLAY %	CORES	BOTTLES	BAGS
	GEOLOGIST _____ SHIP <u>1980 DRILLING.</u>							
<u>61/+00/198 = 148 BH. 80/1</u>								

SAMPLE DATA SHEET 1.

B.H. NO: 80

Page No: 1 of 26

<u>Sub Sample Code</u>	<u>Lithology Code</u>	
EGU - Engineering	≡≡≡ Clay/shale/mudstone	☉ pebbles
P.S.A. - grain size	≡≡ silt/siltstone	☉ shells
M'Pal - Micropalaeontology	∴∴∴ sand/sandstone	C organic
Macro - Macropalaeontology	☉☉☉ gravel/conglomerate	P Plant Fragments
P'Mag - Palaeomagnetic	≡≡≡ Carbonate	Si, Fe, minerals
M - Moisture Content	v v v Extrusive	
	x x x Intrusive	
	≈≈≈ Metamorphic	

SHIP: FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 2

Run <u>3.5</u> m to <u>8.5</u> m Recovery <u>0.03</u> m (<u>0.6%</u>)			
Depth	Sub Samples	Lithology	Description
3.5	^		
	NO CORE RECOVERY IN THIS INTERVAL ?		
	GRAVEL LAYER ?		
8.5	✓	○○○○○	CATCHER DAMAGED; "CORE" IN JAR GRAVEL GRAVEL IN BAG. <u>SM</u> POORLY SORTED FINE SANDY MUD. OCC. ROCK FRAGS TO 1mm SIZE. MODERATELY FIRM PLASTIC. DARK GRAY [10YR 4/1] OCCASIONAL SHELL FRAGS MAY BE CAVINGS FROM A ? OVERLYING GRAVEL GRAVEL LAYER.
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ○ pebbles
 ≡ silt/siltstone ○ shells
 ∴ sand/sandstone C organic
 ☉ gravel/conglomerate P Plant Fragments
 ≡ Carbonate Si, Fe, minerals
 vvv Extrusive
 xxx Intrusive
 ≈ Metamorphic

SHIP: FGLDGLB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 3

Run <u>6.5</u> m to <u>13.5</u> m Recovery <u>—</u> m (<u>0</u> %)			
Depth	Sub Samples	Lithology	Description
6.5			NO CORE RECOVERY; TRACE OF GRAVEL GRAVEL AT SHOE ⇒ IN A THICK GRAVEL HORIZON. (SLOW CORING PROGRESS)
13.5			

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
 P.S.A. - grain size
 M'Pal - Micropalaeontology
 Macro - Macropalaeontology
 P'Mag - Palaeomagnetic
 M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone	○ pebbles
≡ silt/siltstone	☞ shells
∴ sand/sandstone	C organic
☞ gravel/conglomerate	P Plant Fragments
≡ Carbonate	Si, Fe, minerals
v v v Extrusive	
x x x Intrusive	
≈ Metamorphic	

SHIP: FosterB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 4

Run <u>13.5</u> m to <u>18.5</u> m Recovery <u>0.70</u> m (<u>14</u> %)			
Depth	Sub Samples	Lithology	Description
13.5			No RECOVERY
17.8			17.8 m s G subangular clasts to 35mm well 17.9 Indurated? metamorphosed sst occas l. shell fragments. Soft + plastic? disturbed. 65mm? meta psammite 18.25 m S fine muddy sand occas shell frags. Tough? overconsolidated 10424/1 dk grey Occas pods as lenses at base. S slightly muddy v. fine fine sand quartzose. Strong reaction with HCl calc. matrix? Occas. muddy laminations SG sand as above with large clast of well indurated pinkish pinkish white + S YR 8/2. Fine grained sst. V. tough + compact? overconsolidated
17.9			
18.25	P. Mag m' Pal		
18.45	RSA		
18.5	m' Pal		
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
= silt/siltstone
... sand/sandstone
gg gravel/conglomerate
= Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
◉ shells
C organic
P Plant Fragments
Si, Fe, minerals

Run 18.5 m to 23.5 m Recovery 0.86 m (%)

Depth	Sub Samples	Lithology	Description
18.5			N9 RECOVERY.
19.5			
20.5			
21.5			
22.00			
22.5			
23.00			
23.5	M'Pal PSA		Gravelly, sandy mud with clasts 15mm subrounded meta. 2.5Y N3/1. dk grey. Mud v. ~~fine~~ tough slightly plastic heavily overconsolidated. Traces of lam. natron & occas sandy horizons. J. dk grey 2.5Y N3/1. reacts with HCl, H₂S ↑.

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

Clay/shale/mudstone
 silt/siltstone
 sand/sandstone
 gravel/conglomerate
 Carbonate
 Extrusive
 Intrusive
 Metamorphic
 pebbles
 shells
 organic
 Plant Fragments
 Si, Fe, minerals

SHIP: PERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 6

Run <u>23.5</u> m to <u>28.5</u> m Recovery <u>3.56</u> m (<u>41</u> %)			
Depth	Sub Samples	Lithology	Description
23.5	N O R E C O V E R Y		
24.0			
25.0			
26.0			
26.0	M'Pal 25.70 P5A 25.75-26.0		← 24.94 Silt laminated, laminae ↑ 2mm increasing downwards from 2cm to 5cm at 26.25 Colours a) V. dk loyR 3/1 mottled laminated with b) Grey loyR 5/1 ← laminae muddy i.e. silty clay
27.0			a/a but disturbed no lamination below
28.00			Silt coarsening downwards to v.f. sand coarsens down
28.5	PMAG 28.05 M'PAL a/a P5A a/a		CLAY former plastic ool. reduction spotted, discontinuous? Sub-horiz. fissures dk grey loyR 4/1 ← 28.5 strong smell H₂S on HCL spotting Smelly!
All core recovered measured from base of run.			

Sub Sample Code

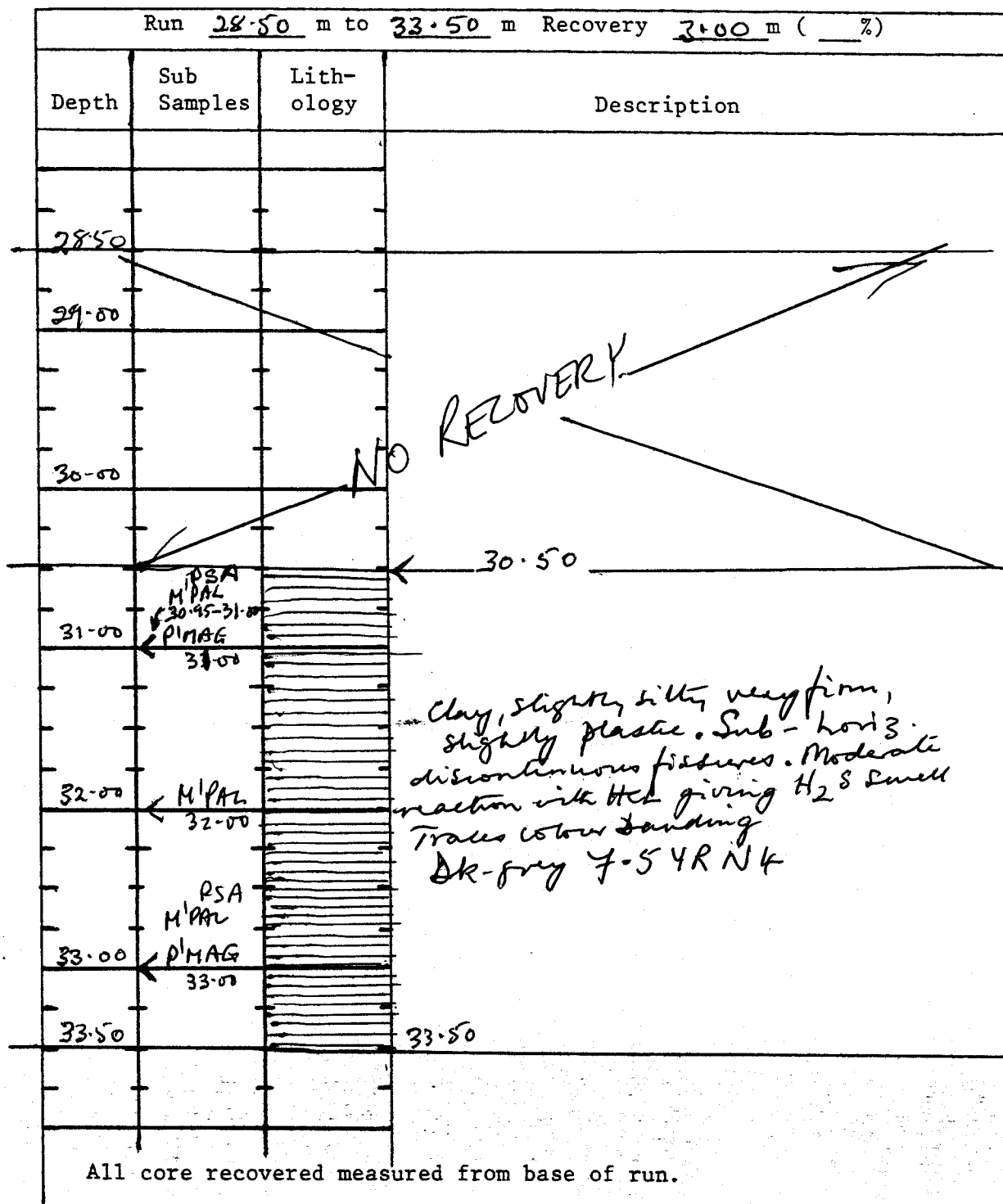
EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetism
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ○ pebbles
≡ silt/siltstone ☉ shells
... sand/sandstone C organic
☉ gravel/conglomerate P Plant Fragments
≡ Carbonate Si, Fe, minerals
vvv Extrusive
xxx Intrusive
≈ Metamorphic

SHIP: M.V. FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 7

Sub Sample Code

EGU - Engineering
 P.S.A. - grain size
 M'Pal - Micropalaeontology
 Macro - Macropalaeontology
 P'Mag - Palaeomagnetic
 M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
 ≡≡ silt/siltstone
 ∴ sand/sandstone
 ≡≡≡ gravel/conglomerate
 ≡ Carbonate
 vvv Extrusive
 xxx Intrusive
 ≈ Metamorphic

○ pebbles
 ○○ shells
 c organic
 P Plant Fragments
 Si, Fe, minerals

B.H. NO: 80/1

Page No: 8

<u>Sub Sample Code</u>	<u>Lithology Code</u>	
EGU - Engineering	≡ Clay/shale/mudstone	○ pebbles
P.S.A. - grain size	≡≡ silt/siltstone	○ shells
M'Pal - Micropalaeontology	≡≡≡ sand/sandstone	C organic
Macro - Macropalaeontology	≡≡≡ gravel/conglomerate	P Plant Fragments
P'Mág - Palaeomagnetic	≡≡≡ Carbonate	Si, Fe, minerals
M - Moisture Content	v v v Extrusive	
	x x x Intrusive	
	≈ Metamorphic	

SHIP: M.V. FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 9

Run <u>38.50 m</u> to <u>43.50 m</u> Recovery <u>1.41 m</u> (<u>28%</u>)			
Depth	Sub Samples	Lithology	Description
38.50			38.50
39.00			
40.00			
41.00			
42.00			
42.09			42.09
43.00	RS-A PMAG MPAL		CLAY a/a
43.50			43.50
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
≡≡ silt/siltstone
::: sand/sandstone
☼ gravel/conglomerate
≡ Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
☼ shells
C organic
P Plant Fragments
Si, Fe, minerals

SHIP: M.V. FERAERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 10

Run <u>43.50</u> m to <u>48.50</u> m Recovery <u>1.90</u> m (<u>38</u> %)			
Depth	Sub Samples	Lith-ology	Description
44			
45			
46			
47			46.60
			clay/a
			"stones" in basal 15cms —
			Rounded unknown lith. 2mm x
			basic igneous 45mm
48.00			
	P'Mag M'Pal at 48.15		
			48.50
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ○ pebbles
≡≡ silt/siltstone ○ shells
::: sand/sandstone C organic
☉ gravel/conglomerate P Plant Fragments
≡≡ Carbonate Si, Fe, minerals
vvv Extrusive
xxx Intrusive
≈ Metamorphic

B.H. NO: 80/1

Page No: 11

≡ Clay/shale/mudstone	○ pebbles
== silt/siltstone	☞ shells
... sand/sandstone	C organic
☞☞ gravel/conglomerate	P Plant Fragments
≡ Carbonate	Si, Fe, minerals
vvv Extrusive	
xxx Intrusive	
≈ Metamorphic	

SHIP: MV FERDER

B.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 12

Run 53-0 m to 58-0 m Recovery 3.53 m (71 %)			
Depth	Sub Samples	Lithology	Description
53	53.00		
54			
55	← MPAL PSA		← 54.47 Clay as above, scattered shell frag. ~~stones~~ Sands tone pebble 2cms rounded at 57.00m 5Y3/1
56	← PMAG		
57	← PMAG MPAL		
58			← 58.00
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
= silt/siltstone
... sand/sandstone
☼ gravel/conglomerate
⊞ Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
☼ shells
C organic
P Plant Fragments
Si, Fe, minerals

SHIP: MV FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 13

Run <u>58.0</u> m to <u>62.0</u> m Recovery <u>4.35</u> m (<u>87%</u>)			
Depth	Sub Samples	Lithology	Description
58			58.0
59	MPAL		58.65 Clay as above but carbonaceous fragments + streaks more common
60	PSA PMAG MPAL		
61	MPAL		
62	PSA PMAG MPAL		
63			

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
≡≡ silt/siltstone
⋯ sand/sandstone
☼ gravel/conglomerate
— Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
☼ shells
C organic
P Plant Fragments
Si, Fe, minerals

SHIP: MW FERDER

B.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 14

Run <u>63.00</u> m to <u>68.00</u> m Recovery <u>485</u> m (<u>97%</u>)			
Depth	Sub Samples	Lithology	Description
63.00	63.00		63m
~~NO~~	~~RECOVERY~~		63.15
	MPAL		
	63.20		
64	MPAL		Clay sticky blue grey ool. - pls v.f. sand & black carbonaceous wisps. Laminated 2-3 cms interbedded w. 2mm black clay to 66m. Sub. - hor'z fissures
	PSA		
65	MPAL		
66	MPAL		
67	PMAG		Clay uniform light grey sub - hor'z fissures sand v.f. at base in wisps prominent carbonaceous lamina 2mm
	PSA		Clay, more homogeneous, very firm to stiff - rare carb. streaks, slightly plastic.
68	67.95		
	MPAL		68m

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mág - Palaeomagnetic
M - Moisture Content

Lithology Code

≡≡≡ Clay/shale/mudstone	☉ pebbles
≡≡ silt/siltstone	☉ shells
∴∴∴ sand/sandstone	C organic
☉☉ gravel/conglomerate	P Plant Fragments
≡≡ Carbonate	Si, Fe, minerals
v v v Extrusive	
x x x Intrusive	
≈≈ Metamorphic	

SHIP: MV FERRIERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 15 of 26

Run <u>68.00</u> m to <u>73.0</u> m Recovery <u>0.80</u> m (<u>16</u> %)			
Depth	Sub Samples	Lithology	Description
68			NO RECOVERY
69			
70			
71			
72			
73	72.85 MPAC		72.20 SILTY CLAY - very disturbed sample v. dk. grey 5Y3/1 pebbles 25mm metabasite ? PBC. Disturbed by drilling on pebbles SILTstone sandy grey silt, shell frags pebbles 35mm 73.00 rock-flour ? TILL Psammite garnetiferous gneiss PBC - calcareous. NOTE - DRILLING THIS RUN FROM 1515 hrs TO 1945 hrs SAMPLE GROUND AWAY ~ BOUNCING ON STONES
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ○ pebbles
::: silt/siltstone ○ shells
::: sand/sandstone C organic
≡ gravel/conglomerate P Plant Fragments
≡ Carbonate Si, Fe, minerals
vvv Extrusive
xxx Intrusive
≈ Metamorphic

SHIP: M.V. FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 16

Run <u>73.00</u> m to <u>78.00</u> m Recovery <u>0.58</u> m (<u>18%</u>)			
Depth	Sub Samples	Lithology	Description
<u>73</u>			
<u>74</u>			
<u>75</u>			
<u>76</u>			
<u>77</u>			
<u>78</u>	<u>MPAL 77-84</u>		
All core recovered measured from base of run.			

NO
RECOVERY

77.12

SILT ~~STONE~~

A/A

GROUND UP IN
UPPER PART

78.00

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
≡≡ silt/siltstone
... sand/sandstone
☉ gravel/conglomerate
≡ Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
☉ shells
C organic
P Plant Fragments
Si, Fe, minerals

SHIP: MV FERDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 17

Run <u>78.00</u> m to <u>83.00</u> m Recovery <u>0.30</u> m (<u>6.00</u> %)			
Depth	Sub Samples	Lithology	Description
78			
79			
80			
81			
82			
83	<u>82.70</u> <u>MPAL</u>		<u>SILT A/A</u> <u>82.70</u> <u>83.00</u>
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

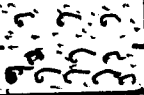
≡ Clay/shale/mudstone
≡≡ silt/siltstone
::: sand/sandstone
≡≡≡ gravel/conglomerate
≡≡≡ Carbonate
vvv Extrusive
xxx Intrusive
≈ Metamorphic

○ pebbles
○ shells.
C organic
P Plant Fragments
Si, Fe, minerals

SHIP: MV FALDERB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 18

Run <u>83-00</u> m to <u>88-00</u> m Recovery <u>0.50</u> m (<u>10</u> %)			
Depth	Sub Samples	Lithology	Description
83			
84			
85			
86			
87			
88	M'Pal Macro		95 SLIGHTLY MUDDY SHELLY FINE SAND. FRAGMENTS OF ARTICA ABUNDANT, TO 30mm SIZE. GAST [10/25/1] 88.00
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
== silt/siltstone
... sand/sandstone
ooo gravel/conglomerate
--- Carbonate
vvv Extrusive
xxx Intrusive
~ Metamorphic

o pebbles
o shells
c organic
P Plant Fragments
Si, Fe, minerals

SHIP: FederB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 19

Run <u>88</u> m to <u>93</u> m Recovery <u>0.25</u> m (<u>5</u> %)			
Depth	Sub Samples	Lithology	Description
<u>88</u>			
<u>93</u>	<u>M'PAL</u> <u>MACRO</u>	<u>g S</u> <u>CLAY</u> <u>CLAY</u>	<u>g S</u> SHELLY FINE SAND; ABUNDANT ARTICA FRAGMENTS UP TO 20mm SIZE. SAND IS MOD. WELL SORTED & FIRM. QUARTZOSE. GREY [5Y5/1]

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

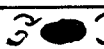
≡ Clay/shale/mudstone ☉ pebbles
≡≡ silt/siltstone ☉ shells
⋯ sand/sandstone C organic
☉ gravel/conglomerate P Plant Fragments
≡ Carbonate Si, Fe, minerals
vvv Extrusive
xxx Intrusive
≈ Metamorphic

SHIP:

B.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 20

Run <u>93</u> m to <u>98</u> m Recovery <u>0.25</u> m (<u>5</u> %)			
Depth	Sub Samples	Lithology	Description
93			
94			
95			
96			
97			
98			<u>95</u> NO CORE RECOVERY - SHOG ONLY - BOTTLED SHELLY FINE SAND; MOD. WELL SORTED SAND. SMALL FRAGS INCLUDE <u>IDENTIFICATION</u> SINGLE COBBLE (90mm) OF QUARTZITE WITH BRYOZOAN GROWTH. 5mm LAMINATION OF ? HUMIC SAND. DARK GRAY [SY4/1]

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

 Clay/shale/mudstone  pebbles
 silt/siltstone  shells
 sand/sandstone  organic
 gravel/conglomerate  Plant Fragments
 Carbonate  Si, Fe, minerals
 Extrusive
 Intrusive
 Metamorphic

SHIP: FeederB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 21

Run <u>98</u> m to <u>103</u> m Recovery <u>0.25</u> m (<u>5</u> %)			
Depth (m)	Sub Samples	Lith- ology	Description
98			
99			
100			
101			
102			
103	M'PAL		<u>S</u> FINE WELL SORTED QUARTZOSE SAND, OCCASIONAL SHELL FRAGMENTS. DARK GREY [SY 4/1]
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

 Clay/shale/mudstone
 silt/siltstone
 sand/sandstone
 gravel/conglomerate
 Carbonate
 Extrusive
 Intrusive
 Metamorphic

 pebbles
 shells
 organic
 Plant Fragments
 Si, Fe, minerals

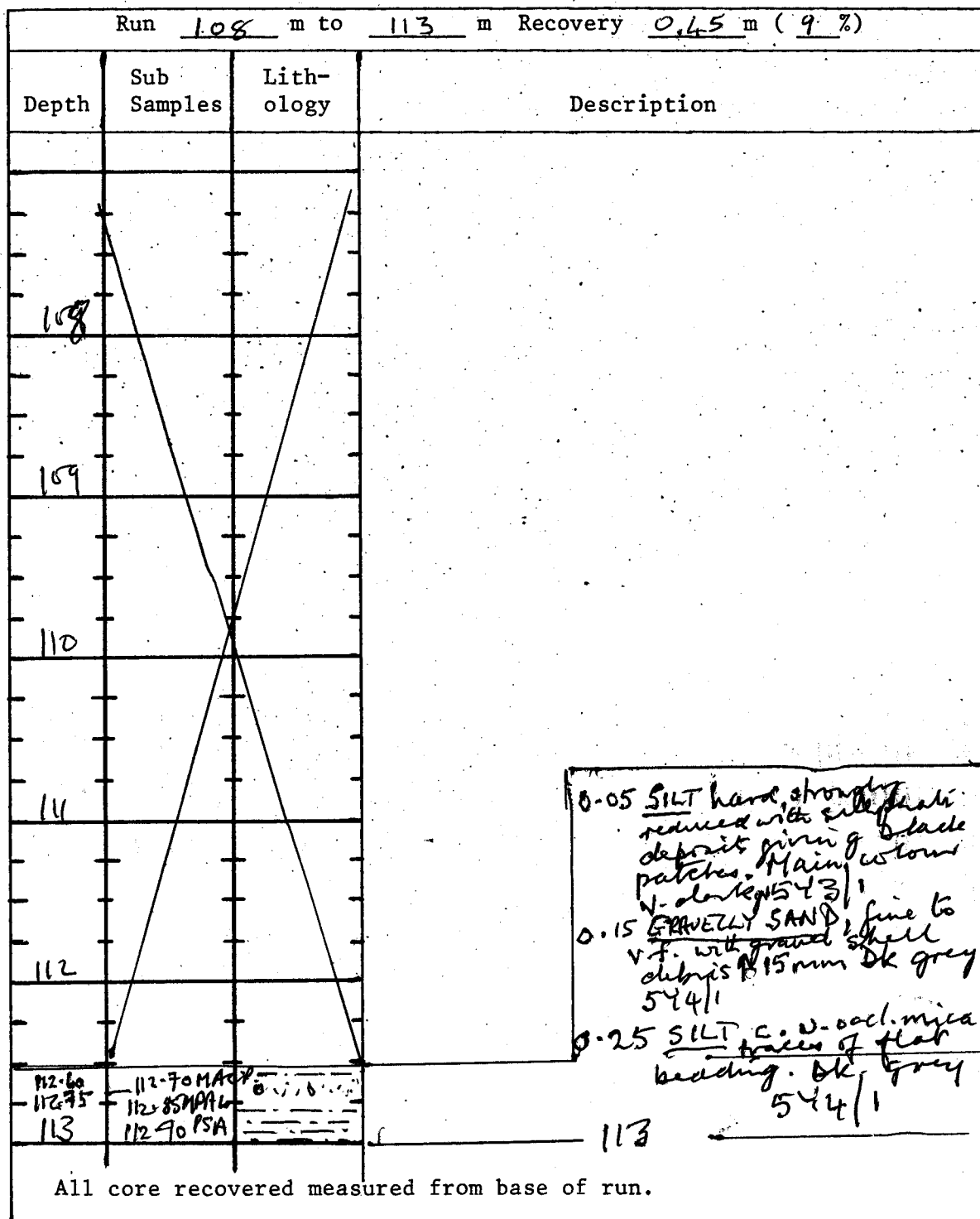
B.H. NO: 80/1

Page No: 22

- o pebbles
- o shells
- c organic
- p Plant Fragments
- Si, Fe, minerals

SHIP: FARROWB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 23

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ○○ pebbles
≡≡ silt/siltstone ○○ shells
: : : sand/sandstone C organic
○○○ gravel/conglomerate P Plant Fragments
≡≡≡ Carbonate Si, Fe, minerals
vvv Extrusive
xxx Intrusive
≈ Metamorphic

SHIP: MV FERNORB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 24

Run <u>113</u> m to <u>118</u> m Recovery <u>0</u> m (<u> </u> %)			
Depth	Sub Samples	Lithology	Description
113			NO RECOVERY INNER CORE BARREL "HUNG UP" i.e. DID <u>NOT</u> REACH OUTER BARREL. "HANG UP" OCCURRED ca 5m DOWN FROM TOP i.e. in PIPE.
114			
115			
116			
117			
118			
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
 P.S.A. - grain size
 M'Pal - Micropalaeontology
 Macro - Macropalaeontology
 P'Mag - Palaeomagnetic
 M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone ☉ pebbles
 == silt/siltstone ☉ shells
 ... sand/sandstone C organic
 ☉ gravel/conglomerate P Plant Fragments
 ≡ Carbonate Si, Fe, minerals
 vvv Extrusive
 xxx Intrusive
 ≈ Metamorphic

SHIP: FERRETB.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 25

Run <u>118 m</u> m to <u>123 m</u> Recovery <u>0.11 m (2 %)</u>			
Depth	Sub Samples	Lithology	Description
118.0			
119.0			
120.0			
121.0			
122.0			
122.89			
123.0			

No recovery.

Washed sand/mud & shell debris may be partly ground up material as below. Seaming shows angular to subangular shell rock - mineral fragments gravel to silt grade.

Shelly sandstone or calcareous. Possible crag deposit. Numerous shell fragments mainly bivalves in a grey matrix of angular to subrounded quartz grains coarse sand to silt size, acc. to fragment & heavy minerals.

All core recovered measured from base of run.

Sub Sample Code

EGU - Engineering
 P.S.A. - grain size
 M'Pal - Micropalaeontology
 Macro - Macropalaeontology
 P'Mag - Palaeomagnetic
 M - Moisture Content

Lithology Code

≡ Clay/shale/mudstone
 ≡≡ silt/siltstone
 ∴ sand/sandstone
 ∴∴ gravel/conglomerate
 ≡≡ Carbonate
 ∴∴ Extrusive
 ∴∴ Intrusive
 ∴∴ Metamorphic

○ pebbles
 ○ shells
 C organic
 P Plant Fragments
 Si, Fe, minerals

SHIP:

B.H. NO: 80/1

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 26 OF 26

Run <u>123</u> m to <u>128</u> m Recovery <u>0.50</u> m (10%)			
Depth	Sub Samples	Lithology	Description
123			N.B. SAMPLE NOT DESCRIBED IN DETAIL - HASTE REQUIRED AS QUICK LOG NEEDED BEFORE HOLE ABANDONED 0.20 Shelly ssf. conc. of a 0.15 Red/bv. sand conc. 0.15 Gravel + volc. layer
124			
125			
126			
127			
127.50	HPAL 50 127.50 127.60		
128			T.D. 128 m. HOLE COMPLETED AT DUE TO SWIVEL FAILURE
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
P.S.A. - grain size
M'Pal - Micropalaeontology
Macro - Macropalaeontology
P'Mag - Palaeomagnetic
M - Moisture Content

Lithology Code

Clay/shale/mudstone
 silt/siltstone
 sand/sandstone
 gravel/conglomerate
 Carbonate
 Extrusive
 Intrusive
 Metamorphic

pebbles
 shells
 organic
 Plant Fragments
 Si, Fe, minerals

SITE NO 111

	SAT 16.8.80	SUN 17.8.80	MON 18.8.80	TUES 19.8.80	WED 20.8.80
0100		3.5	STRING CHANGE		
0200	DULL,	SEA CALM			
0300	DAMP,	3-4 SWIFTLY			
0400	MISTY				
0500	ALL DAY				
0600	SAT.				
0700	ON SITE	28.5	113		
0800	CIRCLING		NO RE		
0900	DUE TO		118		
1000	SWELL	STIFF CLAY			
1100	ANCHORING	43.5	123		
1200		STRING CHANGE			
1300	BARREL	48.5			
1400	ASSEMBLY		128		
1500	RUNNING		POWER SHUT OUT		
1600	SPURRED		PULL OUT		
1700	SM	68.0	LOGGING		
1800	TRYING TO RECOVER INNER B.	72			
1900	PULLING STRING		UP STRING		
2000	AND		UP ANCHORS		
2100	TESTING	73			
2200	LATCHING GEAR				
2300	TO VERTICALLY RE PIPE WITH	78			
2400	SEARDED DRILLING	83	N. TO SITE		
		88	112		
			UP N.		
	3.0m	88m	128m		

← T.D.

127.44
5-95.
~~123.14~~
121.74

5.95
25
7

9.55
80
1:33
33 14
13.49

$$\begin{array}{r} 33.14 \\ 5.95 \\ \hline 27.19 \end{array}$$
[illegible]

M/S FERDER

DRILLING LOG

PROJECT				CLIENT				LOCATION				DATE			
DRILLER				BOREHOLE				DRILLFLOOR TO SEABOTTOM							
BIT								DRILLFLOOR LEVEL							
Date and time	Sample (test) No.	No. of blows	Length of single pipe, m	Drill string length	Depth of penetration m	Depth-meter reading	Echo-sounder reading	Weight of drill string kg	Bit pressure kg	Hook load	Mud Pressure kg/cm ²	NOTE:			
				118.89								UNIT	LENGTH	CUM	
		10	9.05	127.44								P10	9.05		
	C	11	9.45	136.89								P11	9.45		
		12	9.48	146.37								P12	9.48		
	"	13	9.60	155.97								P13	9.60		
	A	14	9.18	165.15	-3.10	0	2325					P14	9.18	80.41	
					+0.40	3.5	2350		300	85	4.5	SPT	0.80	81.21	
		1	5.01	170.16	+0.39	8.5	0045		1000	110	2.6				
		2	5.00	175.16	+0.39	13.5	0250		2500	50	2				
		3	5.00	180.16	+0.39	18.5	0450		2500	45	2.4				
		4	5.05	185.21	+0.34	23.5	0610		2500	45	4				
		5	5.04	190.25	+0.30	28.5	0640		2300	47	4.6				
		6	5.02	195.27	+0.28	33.5	0725		2200	49	6.8				
		7	5.03	200.30	+0.25	38.5	0815		2000	47	4.6				
		8	5.08	205.38	+0.17	43.5	0935		2000	49	4.8				
			(Σ 40.23)												



M/S FERDER

DRILLING LOG

162.00
15.10
3165.5
124

2.91
24
115

9.51
9.38
9.55
9.35
9.55



PROJECT		CLIENT		LOCATION		DATE							
DRILLER		BOREHOLE		DRILLFLOOR TO SEABOTTOM									
BIT				DRILLFLOOR LEVEL									
Date and time	Sample (test) No.	No. of blows	Length of single pipe, m	Drill string length m	Depth of penetration m	Depth-meter reading	Echo-sounder reading	Weight of drill string kg	Bit pressure kg	Hook load	Mud Pressure kg/cm²	NOTE:	
				165.15									
	Σ 66.66	15	9.49	174.64								P 15	9.49✓
		16	9.20	183.84								P 16	9.20✓
		17	9.38	193.14								P 17	9.30✓
		18	9.50	202.64								P 18	9.50✓
		19	9.15	211.79	-1.240	48.5	1200		2000	80	6	P 19	9.15 177.85
	Σ 63.66	1	2.91	214.70	+0.35	53	1250		2000	80-90	5.7		
		1	5.01	219.71	+0.34	58	1335		2000	80	5.7		
		2	5.00	224.71	+0.34	63	1415		2000	80	5.7		
		3	5.00	229.71	+0.34	68	1455		2000	80	5.7		
		4	5.05	234.76	+0.29	73	1920		3500	70	6		
		5	5.04	239.80	+0.25	78	2145		3000	"	"		
		6	5.02	244.82	+0.23	83	2250		2000	"	"		
		7	5.03	249.85	+0.20	88	2335		1200	80	4		
		8	5.08	254.93	+0.12	93			2000	80	4		

M/S FERDER

DRILLING LOG

162.05
98
260.05
259.13
9.92

249.36
49
300.05
297.38
2.67
2.47
24

1 9.62
2 9.58
3 9.50
4 9.55

5.03 289.85
80 80
472 290.05

291
292
3.55
296.3



PROJECT				CLIENT				LOCATION				DATE			
DRILLER				BOREHOLE				DRILLFLOOR TO SEABOTTOM							
BIT								DRILLFLOOR LEVEL							
Date and time	Sample (test) No.	No. of blows	Length of single pipe, m	Drill string length m	Depth of penetration m	Depthometer reading	Echo-sounder reading	Weight of drill string kg	Bit pressure kg	Hook load	Mud Pressure kg/cm ²	NOTE:			
				211.75											
	20	9.51	221.30									P20	9.51		
	21	9.38	230.68									P21	9.38		
	22	9.55	240.23									P22	9.55		
	23	9.35	249.58									P23	9.35		
	24	9.55	259.13	+0.92	98	0250			2000	40	2	P24	9.55	225.19	
	1	5.01	264.14	+0.91	103	0400			2000	40	2	S 1	5.01		
	2	5.00	269.14	+0.91	108	0500			2000	45	2	2	5.00		
	3	5.00	274.14	+0.91	113	0625			"	"	2	3	5.00		
	4	5.05	279.19	+0.86	118	0715			"	"	2	4	5.05		
	5	5.04	284.23	+0.82	123	1050			3500	"	2	5	5.04		
	6	5.02	289.25	+0.80	128	1305			3000	"	"	6	5.02		
	7	5.03	294.28	+3.23	129	1340			1200	"	"	7	5.03	260.34	



British Geological Survey

