

D.S. FERDER	BGS MGLU	B.H.	LATITUDE	LONGITUDE	WATER DEPTH
1984 PROGRAMME		24/5	61° 11.505' N	0° 32.468'	162 m

DEPTH m B.S.B.	LITHO LOGY	CORE	DRILLING CURVE					DRILLING FLUID			WOB met. tons	Rot. RPM
			Time scale					Visc.	S.G.	GPM		
			5	10	15	20	25	50	1.09	40	500	
10							45					
20							50	1.07	45	1000		
30							60		50			
40							45		45	800		
50									47			
60									46	1500		
70									39			
80									60	2000		
T.D. 85									30			
									47			
									35			
									40			
									35			
									40			
									56			
									46			
									50			

T.C. stepped bit pilot
 core barrel
 6x Drill Collars
 1x 9.5m drill pipe
 2x 1.5m drill pipe

1.6.24
 14.05
 START
 1.6.24
 14.05
 START



M/S FERDER

BH84/5

42.55
3.00
45.05
97.24
18

DRILLER'S LOG

N.B. HUSK BOLT i BITGAIDEN

Date: 01.06.84. Client: Location: Loc. 262 Borehole No:

Time	Pipe No.	Length single pipe	Length total pipe	Plus/minus pipe	Pipe below mudline	Bit load	Total weight	Mud press	REMARKS
	BIT	5.9							
	6 dc.		32.9						
X	1	9.55	42.49						930 by a type mud
X	2	9.50							1214 Seacalf pa brum
X	3	9.3							1320 i brum.
X	4	9.55	71.5						
X	5	9.05							
X	6	9.35							
X	7	9.55							
X	8	9.50							
X	9	9.50							
X	10	9.35	129.8						
X	11	9.50							
X	12	9.20							
X	13	9.50	156						
X	14	9.50	165.5	0					
to 7	IX	5	170.5	0	5	500		2	
1/1455		5	175	0	10			40	
1/1550	15	9.45	179.45	0	14.45			40	
1/1620		5	184.45	0	19.45			40	
5/1735	16	9.45	188.90	0	23.90	1000		50	CORE CORE // 3 HAMMER
5/1800		5	193.90	0	28.90	"		50	
9/1905	17	9.45	198.35	0	33.35	900		45	
10/2120		5	203.35	0	38.35	4/1000		47	2015-2035 Mix mud.
15/2235	18	9.20	207.55	0	42.55			47	2015-2035 Mix mud.
20/2330		5	212.55					47	
15/					47.55	"		60	Mud Mud
17/42	2	5.00	217.55	-2.5	50.05	2000		50	Mud Mud
18/130	3	5.00	222.55	0	52.55	"		30	
19/100	4	5.00	227.55	-2.5	55.05	"		35	
20/112				0	57.55	"		35	
21/100	4	5	227.55	-2.5	60.05	"		40	
22/515	5	5	232.55	-2.5	62.55	"		40	



M/S FERDER

DRILLER'S LOG

N.B! Husk Bolt i BITGAIDEN

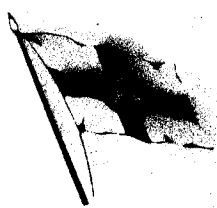
78
42.55
3.60
45.05

Date **01.06.84.** Client _____ Location **Loc. 262** Borehole No _____

Depth deck to mudline _____ Waterdepth _____

Time	Pipe No	Length single pipe	Length total pipe	Plus/minus pipe	Pipe below mudline	Bit load	Total weight	Mud press	REMARKS
Subst	BIT	5.9							
	6 dc.		32.9						
X	1	9.55	42.44						930 by a fupv m
X	2	9.30							1214 Seacalf pa brum.
X	518	0.9							
X	3	9.3							1320 i brum.
X	4	9.55	71.5						
X	5	9.05							
X	6	9.35							
X	7	9.55							
X	8	9.50							
X	9	9.50							
X	10	9.35	129.8						
X	11	9.50							
X	12	9.20							
X	13	9.50	156						
X	14	9.50	165.5	0					
1407	EX	5	170.5	0	5	500		2	
1 1424/1455		5	175	0	10			40	
2 1516/1550	15	9.45	179.45	0	14.45			40	
3 1605/1620		5	184.45	0	19.45			45	
4 1705/1735	16	9.45	188.90	0	28.90	1000		50	CORR./ 3 HAMMEX
5 1755/1800		5	193.90	8	33.35	800		45	
6 1850/1905	17	9.45	198.35	0	38.35	4/1000		45	
7 1930/2120		5	203.85	0	42.55	1500		47	2015-2035 Mix mud
8 2145/2235	18	9.20	207.55		45.05	"		46	
		5	212.55	-2.5	47.55	"		39	
9 2300/2330				0	50.05	2000		30	Mud Mud
10 2345/			217.55	-2.5	52.55	"		30	Mud Mud
11 0027/42	2	2.80	220.55	0	55.05	"		30	new mud
12 057/0130	3	2.80	223.55	-2.5	57.55	"		30	
13 010/010	5			0	57.55	"		35	
14 320/0112				0	60.05	"		40	
15 042/010	4	5	227.55	-2.5	62.55	"		40	
16 ?				0	65.05	"			
17 530/515	5	5	232.55	-2.5					

COCHE GJAF ISK A.S. Torsberg



M/S FERDER

DRILLER'S LOG

234.01
72.55
164.00

Date	Client	Location	Borehole No
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Depth deck to mudline	Waterdepth
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164 mtrs

Time	Pipe No.	Length single pipe	Length total pipe	Plus/minus pipe	Pipe below mudline	Bit load	Total weight	Mud press	REMARKS
18 5 ³⁰ / ₅₅₀	5	5	232.55	-2.5	65.05	2000		40	
19 2 ³⁰ / ₆₃₀				0	67.55	u		35	Hammer down
20 0730/1149	6	5	237.55	-2.5	70.05	u		40	
21 0832/0858				0	72.55	u		40	- u -
	7	5	242.55	-2.5	75.05	u			
22 1005/1010	7	5	242.55	+4	73.55	2000		40	HAMMER DOWN
23 1023/1035				+3	74.55	2000		40	- u -
24 1106/1119				+2	75.55	u		42	- u -
25 1137/1149				+1	76.55	u		44	
26 1204/1215				0	77.55	u		40	
27 1235/1315	8	5	247.55	-2.5	80.05	u		40	
				-0.5	82.05	u		44	
28 1340/1415				0	82.55	u		44	
29 1440/1455	9	5	252.55	-2.5	85.05	u		40	1510 - 1800 Tripnet 1805 Seacalf offpe.

TIME	DATE & LOCATION	ACTIVITY
0000	1/6/84 Loc 262	
0100	Steaming	
0200	t	
0300	Loc 262	
0400		
0500		
0600		
0700	Commence Anchoring	
0800	Anchoring complete	
0900	Prep core barrel	
1000	run pipe + template	
1100	after welding slips retainers	
1200	Break bit guide wire	Pull template
1300	re-run template	
1400	run pipe	
1500	run to 5m 1425'	
1600	run to 10m 1450	
1700	run to 14.5m 1550	
1800	run to 19.5m 1620	
1900	run to 24.0m 1730	
2000	run to 28.9m 1835	
2100	run to 33.35m 1905	
2200	run to 38.35m	
2300	run to 42.5m	
2400	run to 45.0m	

TIME	DATE & LOCATION	ACTIVITY
0000	2/6/84 Loc 262	
0100	00:30 47:55	
0200	01:00 50:05	
0300	01:45 52:55	
0400	02:30 55:05	
0500	04:15 57:55	
0600	04:50 60:05	
0700	62:55	
0800	65:45	
0900	06:45 67:55M	
1000	07:30 DRILLING AGAIN	
1100	70:05M 8:00	
1200	72:55M 8:55am	
1300	73:55M 10:15am	
1400	74:55M 10:35am	
1500	75:55M 11:20am	
1600	76:55M 11:50am	
1700	77:55 12:30	
1800	78:55 12:30	
1900	79:55 12:30	
2000	80:55 12:30	
2100	81:55 12:30	
2200	82:55 12:30	
2300	83:55 12:30	
2400	84:55 12:30	

SHIP: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 1 of 29

Run <u>0.0</u> m to <u>5.0</u> m Recovery <u>0.55</u> m (<u>11</u> %)			
Depth	Sub Samples	Lithology	Description
0			
1.0			
2.0			
3.0			
4.0			
4.45			Clayey v. fine - fine sand, well consolidated, with large shell fragments of various bivalves and pebbles up to 4cm across at top. Dark grey SY4/1: Sand comprises angular quartz and rock fragments. Very slight reaction with HCl
4.70			
5.00			Muddy sandy gravel SY4/1 dk grey: pebbles up to 60mm across of varying metamorphic rock types and granite. Sand v. fine to coarse grade quartz and rock fragments - very slight reaction with HCl. Pebbles mod. well rounded.
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
-

SHIP: FELDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>5.0</u> m to <u>10.0</u> m Recovery <u>0.35</u> m (<u>7%</u>)			
Depth	Sub Samples	Lithology	Description
5.0			
6.0			
7.0			
8.0			
9.0			
9.65m			Muddy gravelly sand - dark grey S4/1 shelly at top with Scallops - also pebbles of metamorphic origin. Broken shell fragments throughout up to gravel grade
10.0m			Sand very fine to medium grained predominantly quartz submd-subang. with subordinate rock fragments. Moderate reaction with HCl
			At base pebble of ? porphyry, broken 80mm across
All core recovered measured from base of run.			

Sub Sample Code

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- 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: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN














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Run <u>10.0</u> m to <u>14.5</u> m Recovery <u>0.1</u> m (<u>2</u> %)			
Depth	Sub Samples	Lithology	Description
10.0			<p style="text-align: center;"><u>STORED IN 1LB JAR</u></p> <p>Clayey sandy gravel/gravelly sand, dk grey SY4/1, sand v fine-fine, quartzose with rock fragments - pebbles up to 3mm across varying origin ? basalt, ? gneiss - consolidated sediment small shell fragments throughout. weak reaction with HCl</p>
11.0			
12.0			
13.0			
14.0			
14.5			
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		organic
	gravel/conglomerate		Plant Fragments
	Carbonate		Si, Fe, minerals
	Extrusive		
	Intrusive		
	Metamorphic		

SHIP: FERDERB.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>14.5</u> m to <u>19.5</u> m Recovery <u>0</u> m (<u>0</u> %)			
Depth	Sub Samples	Lithology	Description
15.0			14.5-19.5 NO RECOVERY Bit blocked see next sheet
16.0			HAMMER SAMPLES :- JARS
17.0			(Muddy sandy) Shelly gravel - predominantly lithic fragments but also well-worn thick bivalve fragments. Apparently more shell frags in first sample. Rock frags of mixed metamorphic / igneous affinity.
18.0			Appears to be "winnowed" gravel from the beds drilled above or alternatively 'good' gravel with which is washed away shale drilling (see next sheet)
19.0			
20.0			

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
 ∨∨∨ Extrusive
 ××× Intrusive
 ≈ Metamorphic

SHIP: FEDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>19.5</u> m to <u>24.0</u> m Recovery <u>SCRAPING</u> = (<u>0</u> %)			
Depth	Sub Samples	Lithology	Description
19.0			<p>SCRAPING FROM BOTTOM OF BARREL</p> <p>Muddy sandy shelly gravel. No small pebbles as in hammer samples above but much shell material including Dentalid fragments.</p> <p>Suspect that this and previous run represents shelly stoney gravel with little sand and mud fraction.</p> <p>Most sediment is washed away by circulating mud while drilling. Hammer samples are probably most true representation of the sediment.</p>
20.0			
21.0			
22.0			
23.0			
24.0			

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: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>24.0</u> m to <u>28.9</u> m Recovery <u>0.5</u> m (<u>10</u> %)			
Depth	Sub Samples	Lithology	Description
24.0			<p><u>FIRST RUN - CORE BARREL</u></p> <p><u>NOT RECOVERED</u></p>
25.0			
26.0			
27.0			
28.0			<p><u>SECOND RUN</u></p> <p>Shelly stoney gravel, few pebbles coarser than 10mm. Comprising ca 60% shell frags 40% lithic.</p> <p>Shell frags - mostly thick-walled bivalves, mostly well worn, some blackened. Rock frags mixed origin mostly rounded, low sphericity. Sediment well sorted.</p>
28.4			
28.9	289		
29.0			

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: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>28.9</u> m to <u>33.35</u> m Recovery <u>0.3</u> m (<u>7</u> %)			
Depth	Sub Samples	Lithology	Description
28.0			
29.0	28.9m		
30.0			
31.0			
32.0			
33.0			
33.35			33.05 Gravel comprising shell frags and pebbles as above 33.35 NB. Drill slowed down ca 0.3m before pulling core ? Test rockhead
34.0			

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: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>33.35</u> m to <u>38.35</u> m Recovery <u>1.35</u> m (<u>27%</u>)			
Depth	Sub Samples	Lithology	Description
33.0			Action of drill suggests boulders
33.35			
34.0			
35.0			
36.0			NB. In previous run, drill stalled down ca 0.3m before pulling core.
37.0			37.0 Slightly muddy sand, greenish grey SGN5/1 quartz veg fine-fine grained - angular, mica, chlorite?, glauconite? flakes upto 1mm across darker patches, richer in green minerals. Shell frags - NB 37.6m. Compacted.
38.0			Structureless apart from dk patches and
38.35	MPAL		38.35 clay-bed artifacts.
39.0			Mod strong reaction with HCl, moderate sorting ca 75% quartz, 15% mica/glauc, 10% rock frags
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
- v v v Extrusive
- x x x Intrusive
- ≈ Metamorphic
- pebbles
- ⊗ shells
- c organic
- P Plant Fragments
- Si, Fe, minerals

SHIP: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>38.35</u> m to <u>42.5</u> m Recovery <u>3.5</u> m (<u>85</u> %)			
Depth	Sub Samples	Lithology	Description
38.0			
38.35			
		X	
39.0			
39.0	MPAL	m	39.0 Greenish grey glauconitic micaceous sandstone, moderate clay fraction v. fine-grained sand, angular grains, quartz, rock frags <u>as above</u>
39.5	MPAL	m	
40.0			
40.5	MPAL	m	<u>below 40.5m</u> Some "bright green" sand bands impoverished in clay but with green clay clasts
41.0			
41.5	MPAL	m	41.3 sand <u>as above</u> but with brown silty clay bands, micaceous no reaction with HCl
42.0			
42.5	MPAL	m	dk greenish grey clay at base
43.0			
			Sediment as a whole has little reaction with HCl.
All core recovered measured from base of run.			

Sub Sample Code

EGU - Engineering
 P.S.A. - grain size
 M'Pal - Micropalaeontology
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 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
 ∨∨∨ Extrusive
 ××× Intrusive
 ≈≈≈ Metamorphic

SHIP: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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Run <u>47.55</u> m to <u>50.05</u> m Recovery <u>2.05</u> m (<u>82%</u>)			
Depth	Sub Samples	Lithology	Description
47.0			DK-olive grey (SY 3/2), firm massive , fine-v. fine, moderately sorted, calcareous, micaceous, argillaceous massive sand.
47.55		X	
48.0		•••	
49.0		•••	
	49.05 M'PAL	•••	
50.0		•••	
50.05	50.05 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
- gravel/conglomerate
- ≡≡≡ Carbonate
- v v v Extrusive
- x x x Intrusive
- ≈ Metamorphic
- pebbles
- ◉ shells
- c organic
- P Plant Fragments
- Si, Fe, minerals

Run <u>60.05</u> m to <u>62.55</u> m Recovery <u>2.73</u> m (<u>109</u> %)			
Depth	Sub Samples	Lithology	Description
59			Firm to indurated, variably coloured, argillaceous, micaceous sands a/a.
59.82			
60			
61	60.78 M'PAL		
62	61.70 M'PAL		
	62.55 MPAL.		

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: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

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MATHS, BRBR.

Run 62.55 m to 65.05 m Recovery 0.85 m (74%)			
Depth	Sub Samples	Lithology	Description
62			
62.55			
63			
64			
64.2	M'PAL		Firm to indurated, yellow brown to light grey, calcareous, micaceous, argillaceous sand/sst. with conspicuous shell frags.
65			
65.05	M'PAL		→ fine shaly band at c 64.95 may be another ashfall horizon.
			→ Indurated light grey sandstone at base.

All core recovered measured from base of run.

Sub Sample Code

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

Lithology Code

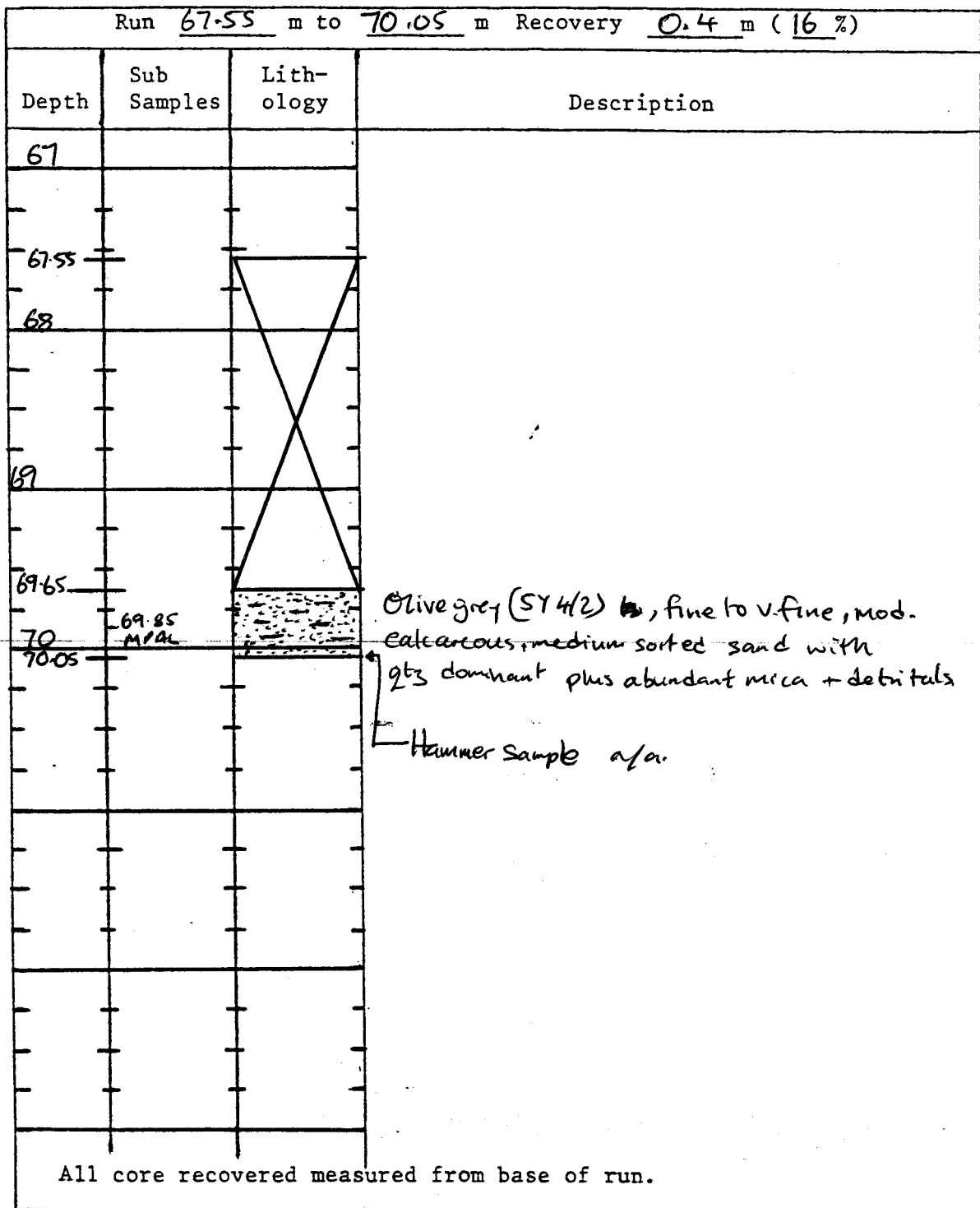
Clay/shale/mudstone pebbles
 silt/siltstone shells
 sand/sandstone organic
 gravel/conglomerate Plant Fragments
 Carbonate Si, Fe, minerals
 Extrusive
 Intrusive
 Metamorphic

SHIP: FERDER

B.H. NO: 84/5

GEOLOGICAL LOG COVERING ONE CORE RUN

Page No: 20 of 29



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
 Extrusive
 Intrusive
 Metamorphic

SHIP: FELDER

B.H. NO: 84/5

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Run <u>72.55</u> m to <u>73.55</u> m Recovery <u>0.45</u> m (<u>45</u> %)			
Depth	Sub Samples	Lithology	Description
72			<p>Red-brown, hard silty to very fine sandy mud/mudstone, overlying fine to v. fine dk. olive grey (SY 3/2), moderate to poorly sorted, micaceous, argillaceous sand with Both facies weak to non-calcareous.</p>
72.55			
73			
73.10			
73.55	M'PAL.		
74			
All core recovered measured from base of run.			

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INSTITUTE OF GEOLOGICAL SCIENCES

Continental Shelf Unit

COMPOSITE LOG

Borehole No 84/5
(61-01/8)

Location: 23 miles NE of Muckle Flugga

Actual position: Latitude: 61° 11.541' N
Longitude: 0° 32.350' W

Dates of drilling: 1st-2nd June 1984

Total depth: 85.0m

Water depth: 160m

Navigation: SATNAV / DECCA

Positioning: SATNAV

Contractor: ANTON VON DER LIPPE

Vessel: FERDER

Sea Area: MILLER
Planned IGS No: 262
Licence Block: 218/23
Operator: unallocated

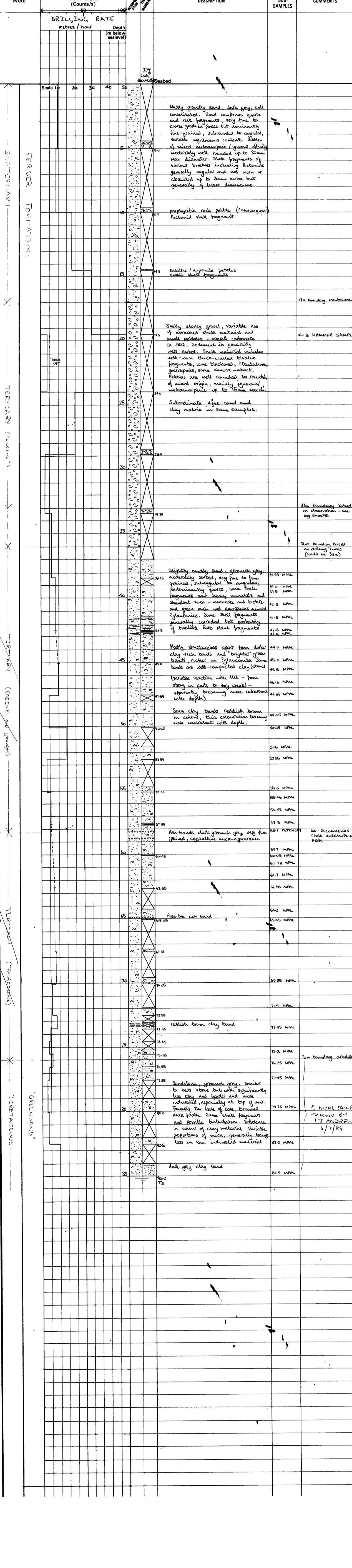
1:100,000 Sheet No: 61 N 01 W (MILLER SE)
Geologists: AF, MS, DL, ACS
COMPOSITE LOG COMPILED BY A FIFE
FROM LOG SHEETS COMPLETED BY
A FIFE AND M STOKER

IGS Borehole No 84/5

<p>Purpose The borehole was intended to penetrate into acoustically structureless Mesozoic strata underlying thin (65m) Quaternary / Tertiary cover. It was expected to sample the youngest Mesozoic strata present, of site 261.</p> <p>Comments Borehole penetrated 17m of Quaternary / Tertiary formation and then 19m of well sorted shelly stony gravel which may be Tertiary. The underlying strata comprised dark greenish grey sands and sandstones of Tertiary and/or Cretaceous age. Ash horizons at 58-59m suggest these sediments to be Tertiary (Palaeocene/Eocene mafic). Note indurated and less argillaceous sandstone below 70m may mark the top of the Mesozoic (Cretaceous) strata. In addition there is a change in clay coloration from brown (above) to grey.</p>	
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LITHOLOGICAL KEY

<p>CLAY/SHALE, MUDSTONE</p> <p>SILT/SILTSTONE</p> <p>SAND/SANDSTONE</p> <p>GRAVEL/CONGLOMERATE</p> <p>LIMESTONE</p> <p>CHALK</p> <p>DOLOMITE</p> <p>COAL/LIGNITE</p>	<p>EVAPORITES</p> <p>EXTRUSIVE IGNEOUS (ASH)</p> <p>INTRUSIVE IGNEOUS</p> <p>BASEMENT</p> <p>WHOLE SHELLS/SHELL FRAGMENTS</p> <p>CARBONACEOUS/PLANT FRAGMENTS</p> <p>IRON PYRITES / FERRUGINOUS</p> <p>CALCAREOUS</p>	
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No Tertiary present (MS)

Larger Cretaceous see Director's reports