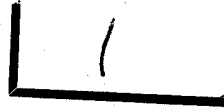


SECTION OF

~~77/15~~ 77/10



Communicated..... by..... Surface Level..... O.D.

Date of boring or sinking..... Borer.....

One-inch Map..... Six-inch Map.....

248429 8M 6/73 J.F.S.S. 275

		Thickness		Depth from Surface	
		M	Mm	M	Mm
0-7m	plug bit				
Run 7-8m	Recovery 55cms Rotary Mudst & Sgt. v. fine ^{micaceous} st. reddish dk brown with lighter & greenish laminae. Most of recovery is disturbed reddish chocolate brown mudst, bedding well defined by mica.				
Run 8.0-8.5m	Recovery 25cms Hammer.				
Top 3cms	light green fine sst (+ casing). rest Mudst a/a. fine & well compacted but breaking along fissures & bedding.				
Run 8.0-10.0	Recovery 1.25m. Rotary coring Red and green fine grained sandstone or siltstone, beds with thin pale greenish white seams & reductive spots in width. Firm, soft rock breaking along bedding planes. Calcareous throughout			7 Pal 8.5 7 Pal 9.5 7 Pal 10.0	
Run 10-12.0m	Rotary coring - Recovery . 1.0m. a/a.				
Run 8-10m	Recovery 1.25m Rotary coring Red and green fine grained ^{bedded} sandstone or siltstone, beds 5-10 cm wide. Firm, soft rock breaking along bedding planes, calcareous.			7 Pal 8.5 7 Pal 9.5 7 Pal 10.0	

		Thickness		Depth from Surface	
		M	Mm	M	Mm
Run 10-12m	Rotary coring 1m recovery Predominantly red fine grained ^{fine soft} siltstone or mud with thin pale green-white seams and reduction spots. Calcareous throughout.				
Run 12-14m	Rotary coring Recovery 1.40m. a/a.			17 Pal	13-40m
Run 14-16m	Rotary coring Recovery 2.0m. a/a.				
				<u>to 16m</u>	

INSTITUTE OF GEOLOGICAL SCIENCES

Continental Shelf Unit North

COMPOSITE LOG

Borehole No ~~77/15~~ 77/10

Location: 9km W.W. of Fair Isle

Actual position: Latitude: 59° 34.8' N
Longitude: 01° 44.4' W

Dates of drilling: 15-16 JULY 1977
Total depth: 16m.
Water depth: -

Navigation: MAIN CHAIN DECCA
Positioning: Anchored
Contractor: Anton von der Lippe.
Vessel: M/S Fedas.

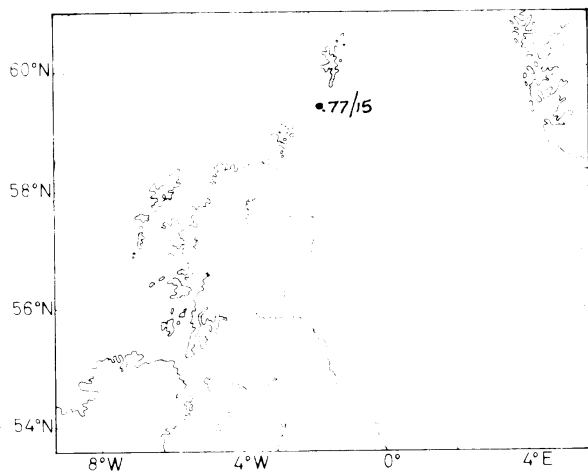
Sea Area: N. Orkney
Project No: 15
Licence No: -
Operator: -

1:100000 Sheet No: 58030' N 2° W
Geologists: J.A. Clever
D.A. Adams
D. Evans
R. Suckland.

IGS Borehole No: 77/15

Purpose:
To drill dipping sediments of West Fair Isle basin near the top of the succession.

Comments:



LITHOLOGICAL KEY

CLAY SHALE - MUDSTONE	EVAPORITES
SILT SILTSTONE	EXTRUSIVE IGNEOUS
SAND SANDSTONE	INTRUSIVE IGNEOUS
GRAVEL CONGLOMERATE	BASEMENT
LIMESTONE	WHOLE SHELLS SHELL FRAGMENTS
CHALK	CARBONACEOUS PLANT FRAGMENTS
DOLomite	IRON PYRITES FERRUGINOUS
COAL LIGNITE	CALCAREOUS

AGE	NATURAL GAMMA RAY LOG (Counts/s)	LITHOLOGY	DESCRIPTION	SUB SAMPLES	COMMENTS
	NOT RUN.				
	Depth in below sublevel		Seabed		
QUATERNARY	Recent		plug bit.		
	Pleistocene		drilled just 3-4m v. quickly ? sand		
MESOZOIC	u/c		Red Mud on pit bit ? clay		
	(PERMO) - TRIASSIC		Mudst, Siltst, sst alternating bands (5-10cm) of dark reddish brown mudst and siltst. sst siltst is locally light greyish green. Bedding well defined by mica, mod. soft.	← SUBSAMPLED AT 7.3m BY MOBIL OCT '82 ← K'Pal ← K'Pal	
			Siltst fine grained siltstone and mudst, dark reddish brown with pale green seams and redulsion spots. Calcareous, fairly soft.	← SUBSAMPLED AT 13.3m BY MOBIL OCT '82 ← K'Pal.	
			T.S. 16.0m		← SUBSAMPLED BY MOBIL OCT 82 (15-5m).