CLIENT:

FUGRO ENGINEERING SERVICES LIMITED

ENCLOSURE:

13

TITLE:

CORE

DESCRIPTION CHART

SCALE:

1:50

WELL:

C6a

TD:

26.4m

GLE:

-2m

SURFACE POSITION:

X:449569, Y: 4237613

INTERVAL:

0m - 26.4m

ADDRESS:

Fugro Robertson Limited
Llandudno, North Wales LL30 1SA
United Kingdom
Telephone: +44(0)1492 581811
Facsimile: +44(0)1492 583416
Telex: 61595 (ROBRES G)
E-mail: info@fugro-robertson.com
Website: www.fugro-robertson.com

DETAILS:

DATE:	**APRIL, 2012**
AUTHORS:	**O. DAVIS**
REPORT NO:	**7166/lb**
PROJECT NO:	**GF721**
SOFTWARE:	**WellCAD 4.1**

Copyright Fugro Robertson Ltd

LEGEND

LITHOLOGY

- claystone
- siltstone
- sandstone
- limestone

SAMPLES

- M — Micropalaeontology
- N — Nannopalaeontology
- P — Palynology

.

LOGGERS DEPTH 1m:50m	AGE	BIOZONE	CORE CONDITION	SAMPLES	GRAIN SIZE AND SEDIMENTARY STRUCTURES (clasts/bioclasts; Pebbles; Granules; Very coarse sand; Coarse sand; Medium sand; Fine sand; Very fine sand; Mud/clay; Mudstone; Anhydrite/Coal)	LITHOLOGY	WELLSITE DESCRIPTION	CORE DESCRIPTION	BIOSTRATIGRAPHIC ANALYSIS
0.0	RECENT			M			RECENT SOIL	RECENT SOIL: Root horizons	
0.5				N					N: Impoverished assemblage, PRES Pseudoemiliania lacunosa ovata, TOP Cretaceous reworking
1.0				M			Shell fragments concentrated in horizons, in silty muddy matrix.		
1.5				N P					P: Impoverished in pollen and dinocysts, CMN Deltoidospores and Asteraceae Cichorioisideae, PRES Zygnema type, Chomotriletes (Concentricystes). N: Highly impoverished assemblage, OCC Reticulofenestra spp.
2.0									P: CMN Concentricystis spp.
2.5				N					N: Highly impoverished assemblage, RARE Reticulofenestra spp. and Sphenolithus spp.
3.0									
3.5							CLAY: sandy, with weathering (oxidation) between 4.0-5.0m and 6.4-7.0m.		
4.0				M					
4.5									
5.0		MNN18-14		M N					M: ABN sponge spicules, CMN shell debris, ostracods, OCC Orbulina universa, RARE Elphidium spp.
5.5									
6.0				P					P: OCC Concentricystis spp., SABN Asteraceae Cichorioideae, ABN Deltoidospores, ABN plant remains, algal and pteridophyte spores
6.5								CLAY AND SILTS: with scattered pebbles of varying abundance and size.	
7.0									
7.5				N					N: Highly impoverished assemblage, PRES Cyclicargolithus floridanus
8.0									
8.5									
9.0				N			CLAY: sandy with weathering (oxidation). Chestnut brown.		N: Highly impoverished assemblage, PRES Reticulofenestra bisecta and Coccolithus pelagicus
9.5									
10.0				M					
10.5				N					N: Barren of nannofossils
11.0									
11.5									
12.0							SAND: medium to fine-grained, clay rich. Beige-ochre.	ARGILLACEOUS SANDSTONE: with scattered gravel.	
12.5				M					M: Barren of microfossils
13.0									
13.5				P					P: Top impoverished palynofloras/barren of palynomorphs
				N				CLAY	P: Barren of palynomorphs
14.0				P					N: Barren of nannofossils
14.5				N					P: Barren of palynomorphs
15.0									N: Barren of nannofossils
15.5				M				Pebble and root horizon at the top of a clay horizon with gravel scattered throughout.	
16.0				N					N: Highly impoverished assemblage, PRES Calcidiscus leptoporus
16.5									
17.0				M					
17.5				M N					N: Impoverished assemblage, PRES Pseudoemiliania lacunosa ovata and small Gephyrocapsa spp., BASE Cretaceous reworking. M: Barren of microfossils
18.0				M					
18.5				N			CLAY: slightly calcareous, firm/stiff. Beige, becoming orange.		P: Barren of palynomorphs, few fragments of dark organic matter, some contaminated pollen grains (containing cytoplasm). N: Barren of nannofossils
19.0				P					
19.5				M				CLAY: shell fragments and gravel scattered throughout a clay matrix	
20.0				N					N: Highly impoverished assemblage, PRES Calcidiscus leptoporus
20.5				M					
21.0				P				Outsized clasts in silty beds. Limestone gravel found throughout. Large shell fragments found at the base.	P: Barren of palynomorphs
21.5				N					N: Barren of nannofossils
22.0									
22.5				M					
23.0							GRAVEL: calcareous, angular, in a sandy matrix.	LIMESTONE: crystalline, no grains apparent. Vuggy texture. Partially cemented.	
23.5									
24.0									
24.5									
25.0				M			LIMESTONE: heavily weathered.		M: ABN bioclastic debris, ostracods, CMN Valvulina spp.
25.5									
26.0									

EARLY PLIOCENE - EARLY PLEISTOCENE, 'LATEST' ZANCLEAN - GELASIAN

PLIOCENE? - ?PLEISTOCENE

?LATE PALAEOCENE