CLIENT:

FUGRO ENGINEERING SERVICES LIMITED

ENCLOSURE:

12

TITLE:

CORE

DESCRIPTION CHART

SCALE:

1:50

WELL:

C5e

TD:

22.2m

GLE:

160m

SURFACE POSITION:

X:452847, Y: 4236168

INTERVAL:

0m - 22.2m

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DETAILS:

DATE:	**NOVEMBER, 2011**
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REPORT NO:	**7166/lb**
PROJECT NO:	**GF721**
SOFTWARE:	**WellCAD 4.1**

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LEGEND

LITHOLOGY

- claystone
- siltstone
- sandy siltstone
- Sedimentary breccia
- limestone

SAMPLES

- M Micropalaeontology
- N Nannopalaeontology
- P Palynology

LOGGER'S DEPTH 1m:50m	AGE	BIOZONE	CORE CONDITION	SAMPLES	GRAIN SIZE AND SEDIMENTARY STRUCTURES (cobble/boulders, Pebbles, Granules, Very coarse sand, Medium sand, Fine sand, Very fine sand, Siltstone, Mudstone, Anhydrite/Coal)	LITHOLOGY	WELLSITE DESCRIPTION	CORE DESCRIPTION	BIOSTRATIGRAPIC ANALYSIS
0.0	RECENT						LOAMM-CLAY: Back-filling (road) / with limestone gravel.	SAND: Dark grey, argillaceous very fine-grained, supporting limestone clasts. Modern day soil.	P: Impoverished in pollen and dinocysts, ABN plant remains and algal spores (Chlamydosporites/Glomus), PRES Zygnema type suggesting a fresh water source (?)
0.5				P				Several limestone clast horizons. Very large clasts seen at 0.75m.	
1.0				M					M: ABN Thaumatoporella parvovesiculifera, PRES rotaliids and miliolids; Bioclastic wackestone; ?Danian; F6 of Accordi et al. (1998)
1.5				P			CLAY: Loam with gravel	CLAY: dark brown with a carbonate gravel lamination at the base.	
2.0				M				CLAY: reddened with several prominent carbonate clast horizons.	
2.5				M N			GRAVEL: clayey matrix (Gravel is angular / Unit is very dense)	LIMESTONE: Heavily brecciated massive unit.	P: ABN small fragments of amorphous organic matter, PRES of plants remains, ABN algal spores, PRES of Zygnema type (fresh water indicator), RARE pollen grains and dinocysts
3.0				M					M: Barren of microfossils. M: ABN Decastonema spp., PRES rotaliids, Haymanella spp., ? Bangiana spp. Rotalia spp. and miliolids; Brecciated limestone with lithoclasts; Danian (SBZ1-?SBZ2); F6 of Accordi et al. (1998)
3.5									
4.0									
4.5									
5.0									N: Highly impoverished. M: ABN Decastonema spp., PRES rotaliids, Haymanella spp., Bangiana hanseni, Rotalia spp., Thaumatoporella parvovesiculifera and miliolids; Brecciated limestone with lithoclasts; Danian (SBZ1-?SBZ2); F6 of Accordi et al. (1998)
5.5				M					
6.0									
6.5				M					N: Barren of nannofossils
7.0									M: ABN Decastonema spp., CMN ostracods and Thaumatoporella parvovesiculifera, PRES Rotalia spp. and miliolids; Bioclastic wackestone; Danian; F6 of Accordi et al. (1998)
7.5									
8.0									M: Barren of microfossils
8.5				M					M: Poor recovery, OCC Globigerinoides trilobus
9.0									M: Poor recovery, RARE Globigerina decoraperta
9.5				M					
10.0									M: ABN Decastonema spp., CMN Rotalia spp. and miliolids, PRES Thaumatoporella parvovesiculifera and Dicyclina schlumbergeri; Brecciated limestone; ?Santonian-Campanian; F3 of Accordi et al. (1998)
10.5				M					
11.0									M: OCC Neogloboquadrina acostaensis, RARE Globorotalia aemiliana
11.5									
12.0							LIMESTONE: bioclastic debris grainstone, coarse-grained, with rare intercalation (random) of rounded gravel and boulders (limestone and breccia limestone elements). Unit is white (cream-white).	BIOCLASTIC DEBRIS GRAINSTONE: Unconsolidated grainstone varying from fine to coarse- grained. Large to very large limestone clasts are suspended throughout the core. Some coarsening upward trends have been inferred however these interpretations are vague due to the nature of the core. Some possible clast lags can be seen. The clasts range from sub-rounded to well-rounded.	
12.5				M					M: ABN Decastonema spp., CMN Rotalia spp., PRES Thaumatoporella parvovesiculifera and Dicyclina schlumbergeri; Bioclastic wackestone; ?Santonian-Campanian; F3 of Accordi et al. (1998)
13.0									
13.5									
14.0									
14.5									
15.0									
15.5									
16.0									M: ABN Decastonema spp. and Thaumatoporella parvovesiculifera, PRES Rotalia spp. and Dicyclina schlumbergeri; Bioclastic wackestone; ?Santonian-Campanian; F3 of Accordi et al. (1998)
16.5				M					
17.0									
17.5				M					M: Poor recovery
18.0									
18.5									
19.0									M: Poor recovery
19.5				M N					
20.0									N: Barren of nannofossils
20.5				M					M: Poorly preserved assemblage, OCC Globigerina spp.
21.0									
21.5									
22.0	LATE PLIOCENE, PIACENZIAN								