

PANAMA CANAL COMPANY
ENGINEERING AND CONSTRUCTION BUREAU

GEOLOGICAL FIELD LOG

1 INCH=2 FT.

PROJECT / LAUNCH AND LINEHANDLER FACILITY

HOLE NO. / CLLF -14

GEOLOGIST / P. FRANCESCHI

LOCATION / COROZAL

LATITUDE N. / 8 59' + 1325

LONGITUDE W. / 79 34' + 5588

COMPLETION DATE / 14 APR. 1989

STATION / 2274 +21

OFFSET / 9.57 E

CORE RECOVERY / 58.33 FT. R.P.C. / RWD 21.8 P/C

GROUND ELEVATION /

26.55

HOLE DEPTH / 65.30 FT.

DRILLER / D. WALTERS

VERTICAL HOLE

THIS IS A FOUNDATION HOLE, SEE NOTE 14 IN SUMMARY FOR SPT DATA.

ELEVATION IN FEET	DEPTH IN FEET	COLUMNAR SECTION	DESCRIPTION OF MATERIAL	DRILLING CHARACTERISTICS			CORE RECOVERY
				* CR	CR P/C	RWD P/C *	
26.55	0.00		SILT, CLAY, SAND, CH-1, MEDIUM SOFT OVERBURDEN, TO CH-4, HARD OVERBURDEN, MODERATELY STRONG TO STRONG, MODERATE TO HIGH PLASTICITY, MODERATE TO HIGH DRY STRENGTH, MODERATE WATER CONTENT, RESIDUAL, SAPROLITIC, SILT, CLAY, SAND, DERIVED FROM AGGLOMERATE, BY NORMAL WEATHERING PROCESSES, BECOMES CLAYEY AT BASE, CLAY CONTENT INCREASES WITH DEPTH. COLOR- MOTTLED MEDIUM BROWN, AT TOP, MOTTLED MEDIUM YELLOW-BROWN, IN CENTRAL PART, + MOTTLED MEDIUM + DARK BROWN, IN LOWER PART, NOTE/ SPT'S WERE TAKEN WITH A STANDARD 2 INCH SPLIT SPOON + A 141-LB. HAMMER DROPPED 3 INCHES FOR EACH BL. ON. SEE NOTE 12 IN SUMMARY	FROM 0.0 FT. TO 7.5 FT. CONTINUOUS STANDARD PENETRATION TESTS. ---			
	1.50			FROM 7.5 FT. TO 19.0 FT. DRILLED DRY WITH 4 IN. CASING, H.P. 200 TO 235 PSI. ---	FROM		1.50
	3.00			19.0 FT. TO 22.0 FT. PUSH DRILLED DRY WITH 4 IN. CASING, H.P. 350 TO 345 PSI. ---	FROM		1.50
	4.50			22.0 FT. TO 23.8 FT. DRILLED DRY WITH 4 IN. CASING, H.P. 320 PSI.	FROM		1.50
	6.00						1.50
	7.50						1.50
	9.00						1.50

NE-GRAINED, WATER-LAID, TOFFACEOUS, VOLCANIC DEBRIS, CONTAINS ABUNDANT SCATTERED AGGLOMERATIC MATERIAL, UP TO 1.1 FT. IN DIAMETER, IN A FINE-GRAINED, TOFFACEOUS MATRIX, HIGHLY ALTERED TO CLAY MINERALS, COLOR- MOTTLED DARK RED-BROWN, NOTE/ CORE HYDRATES, SWELLS + DISINTEGRATES ON EXPOSURE TO AIR.

CORE IN GOOD CONDITION
0.1 TO 3.2 FT. LONG
THIS

34.35

6.50

43.30

7.70

49.30

5.00

200

Figure 1

1989. 9. 28. 8. 7 *

SEE NOTE 102

61 52

[illegible]

FROM 60.8 FT. TO 66
5 FT. DRILLED SLOWLY WIT
H 4 X 5-1/2 IN. DOUBLE T
UBE. CARBOLOY BIT + WATER
/ CORE IN GOOD CONDITION
1.0 TO 2.0 FT. LENG
THS.

69, 33

2000 2001 2002 2003 2004

BOTTOM OF HOLE

Notes

TYPE OF MATERIAL

REFERENCES

DISH

000000

25. 21 TO

20. 50 TO

60 40 70

60.00 TO

1993

28.31 ADDRESS:

00.80 TUFF, AGGLOMERATIC,

GO-SE ASH FLOW

COTTON GR. HOLE

3	3.5	4.5	7 BLOWS TO	1.5
			11 BLOWS TO	1.5
			12 BLOWS TO	1.5
4	4.5	6.5	12 BLOWS TO	1.5
			30 BLOWS TO	1.50
			40 BLOWS TO	1.50
5	6.5	7.5	50 BLOWS TO	1.50
			55 BLOWS TO	1.50
			60 BLOWS TO	1.50

100. DISINTEGRATES ON EXPOSURE TO AIR.

101. TUFF, AGGLOMERATIC, PH-3, MEDIUM HARD ROCK, MODERATE STRENGTH, VERY CLOSE JOINTING, JOINTS CONTAIN THIN CALCITE FILMS, FINE-GRAINED, WATER-LAID, TUFFACEOUS, VOLCANIC DEBRIS, CONTAINS A BUNDANT SCATTERED AGGLOMERATIC MATERIAL, UP TO 0.1 FT. IN DIAMETER, IN A FINE-GRAINED, TUFFACEOUS MATRIX, COLOR- MOTTLED DARK RED-BROWN, NOTE/LOWER CONTACT BAKED BY IGNEOUS MATERIAL BELOW.

102. FROM 0.1 FT. TO 05.8 FT. DRILLED SLOWLY WITH 4 X 5-1/2 IN. DOUBLE TUBE, CARBOLLOY BIT + W WATER. CORE RECOVERED IN ONE PIECE.