

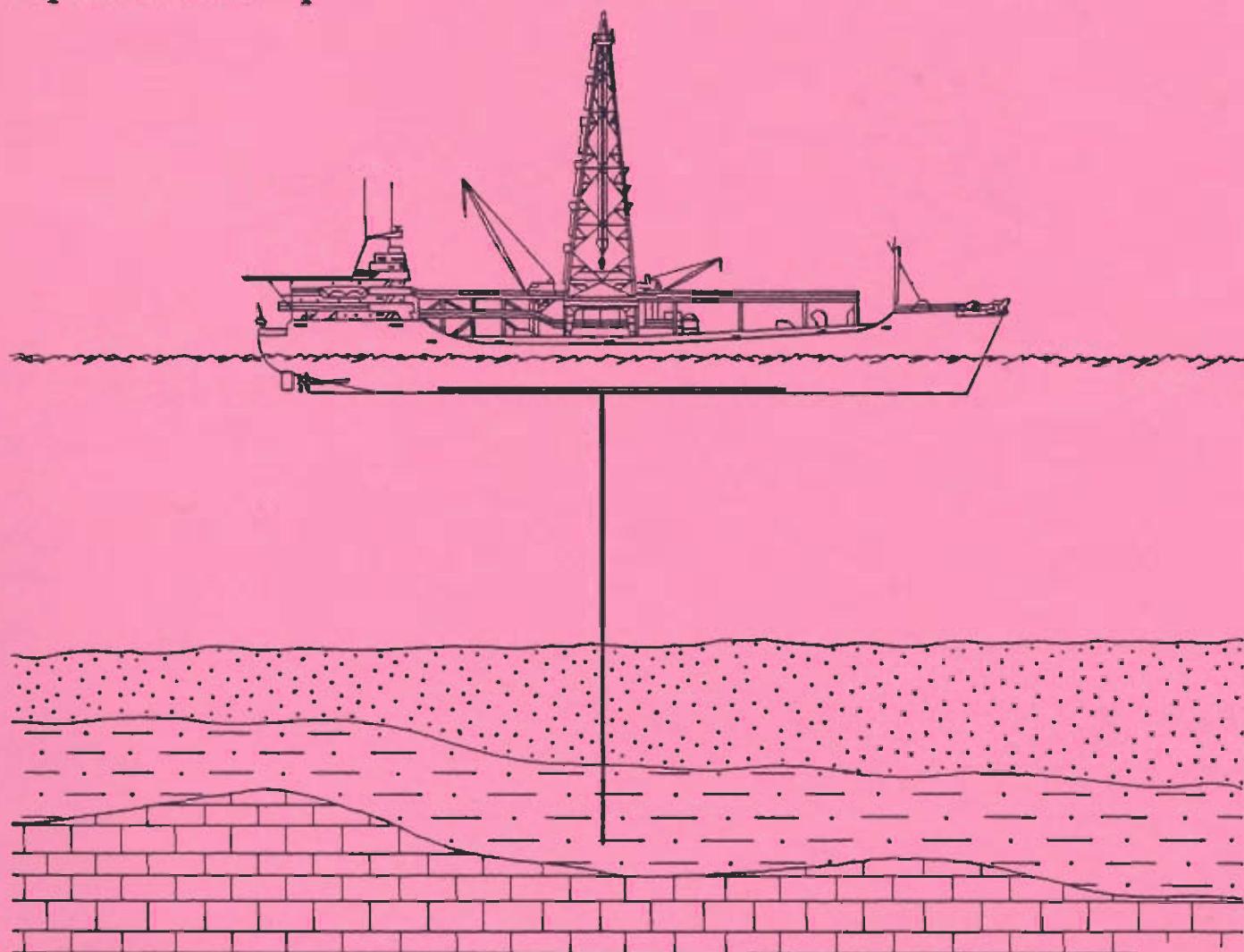
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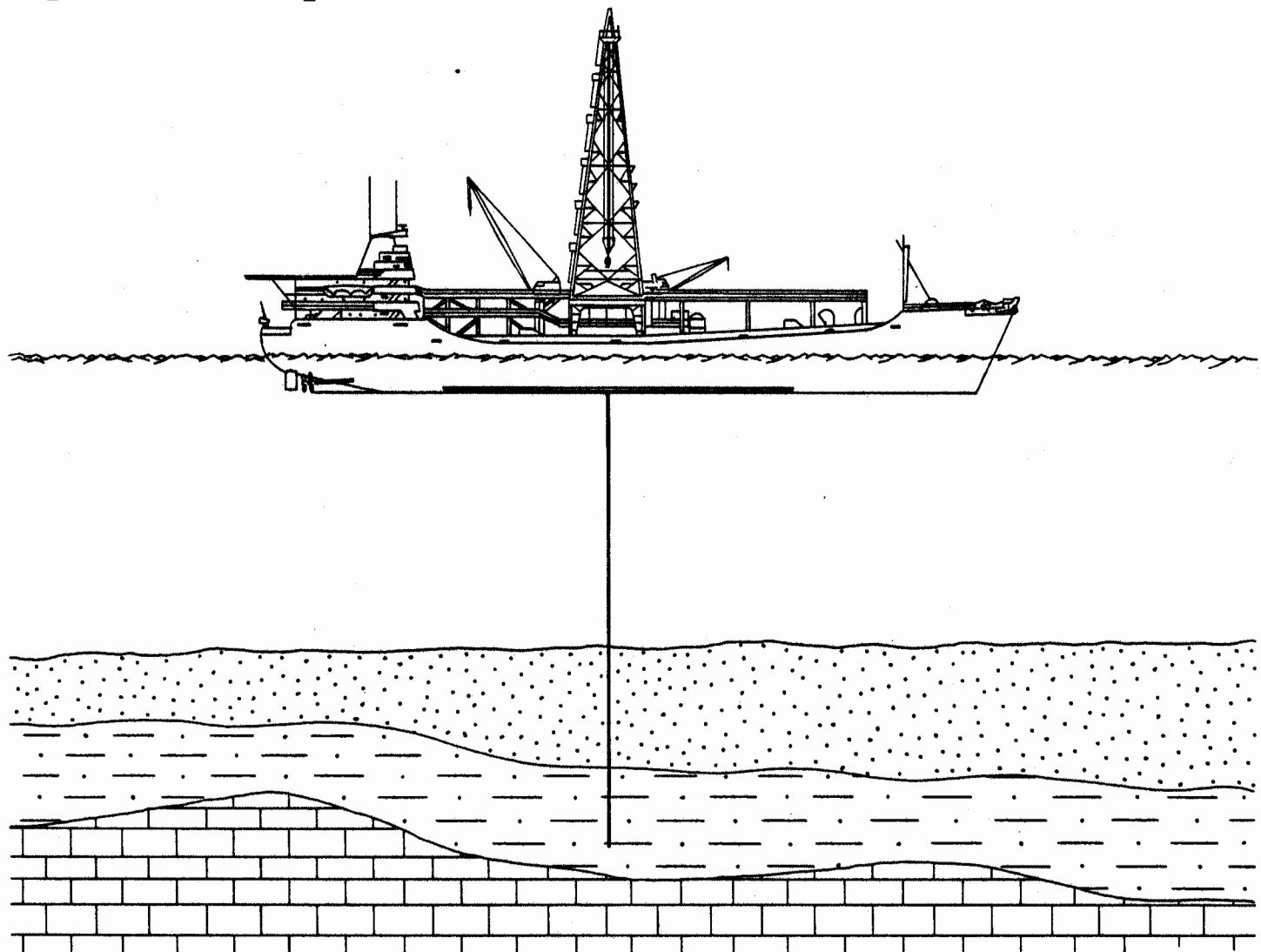
Open File Report 81-239



United States
Department of the Interior
Geological Survey

Data File Atlantic Margin Coring Project (AMCOR) of the U.S. Geological Survey

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United States
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DATA FILE

THE 1976 ATLANTIC MARGIN CORING (AMCOR) PROJECT

OF THE

U.S. GEOLOGICAL SURVEY

Lawrence J. Poppe, Editor

U.S. Geological Survey Open-File Report 81-239

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1981

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INTRODUCTION

by John C. Hathaway

In 1976, the U. S. Geological Survey conducted the Atlantic Margin Coring Project (AMCOR) to obtain information on stratigraphy, hydrology and water chemistry, mineral resources other than petroleum hydrocarbons, and geotechnical engineering properties at sites widely distributed along the Continental Shelf and Slope of the Eastern United States (Hathaway and others, 1976, 1979). This program's primary purpose was to investigate a broad variety of sediment properties, many of which had not been previously studied in this region. Previous studies of sediments recovered by core drilling in this region were usually limited to one or two aspects of the sediment properties (Hathaway and others, 1979, table 2).

The AMCOR program was limited by two factors: water depth and penetration depth. Because the ship selected for the program, the Glomar Conception, lacked dynamic positioning capability, its anchoring capacity determined the maximum water depth in which drilling could take place. Although it was equipped to anchor in water 450 m deep and did so successfully at one site, we attempted no drilling in water depths greater than 300 m. Strong Gulf Stream currents at the one attempted deep (443 m) site frustrated attempts to "spud in" to begin the hole.

The amount of space necessary to assemble the drilling equipment imposed a lower limit of 18 m for the water depth at any site. Safety considerations limited penetration depth. Because the program involved open-hole drilling without equipment such as blowout preventers, sites were selected at locations devoid of structures capable of trapping oil or gas, and the holes were drilled no deeper than 310 m to further minimize the possibility of encountering hydrocarbon accumulations.

Holes were cored at 19 sites (fig. 1 and table 1) in water depths ranging from 20 to 300 m, and sediments totaling 1020 m were recovered in 380 cores. At a twentieth site (6003), no cores were recovered because of a resistant layer at the sea floor.

Shipboard analytical tests of the cores included visual description and photographing; measurements of the bulk density, shear strength, and electrical resistivity of the sediment; measurements of the salinity, pH, alkalinity, and calcium content of the interstitial water; gas chromatography of the light hydrocarbon and hydrogen sulfide contents; and micropaleontologic analyses.

After the coring operation in each of the 10 holes was completed, logs were obtained of responses to various sensors lowered into the boreholes; these measured spontaneous potential and resistivity, gamma ray and neutron porosity, compensated formation density, borehole diameter, temperature, and velocity of sound in the borehole. Complete logging of several holes was prevented by caving, loss of downhole equipment, or sticking of the logging tools. These logs are useful for correlation but are not discussed further in this paper. Information on them is given in Hathaway and others (1976).

**ATLANTIC MARGIN
CORING PROJECT
1976**

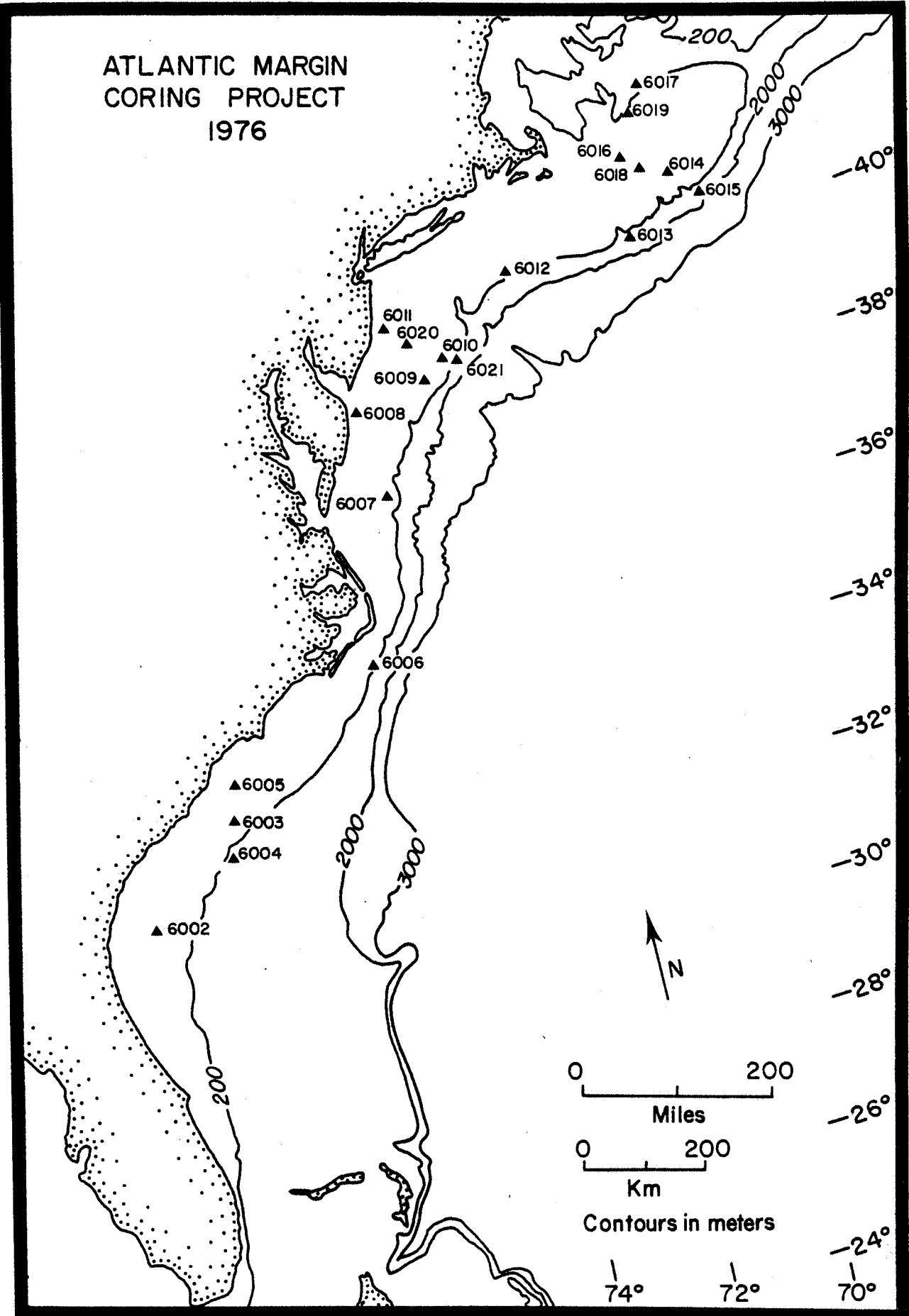


Figure 1--Location of Atlantic Margin Coring Project Sites. From Hathaway and others (1976).

Table 1. Locations and depths of AMCOR drill holes on the Atlantic outer
Continental Shelf and Slope of the United States.

Site	Date completed 1976	Latitude (N)	Longitude (W)	Water depth (m)	Penetration depth (m)
6002	23 July	31°08.57'	80°31.05'	32.3	304.8
6003	25 July	32°37.66'	78°48.80'	41.0	N.R.*
6004	26 July	32°03.98'	79°05.86'	173.7	307.9
6005	30 July	33°15.10'	78°44.08'	18.6	47.6
6006	2 August	34°41.4'	75°43.0'	56.1	89.3
6007	6 August	37°17.99'	74°39.16'	85.0	310.6
6008	8 August	38°24.21'	74°53.83'	20.7	119.5
6009	13 August	38°51.27'	73°35.47'	58.5	229.6
6010	15 August	39°03.70'	73°05.90'	75.9	310.6
6011	18 August	39°43.5'	73°58.6'	22.3	260.0
6012	22 August	39°59.57'	71°20.09'	262.7	303.9
6013	25 August	40°05.04'	68°52.13'	238.7	304.8
6014	27 August	40°48.33'	67°53.64'	69.8	102.4
6015	29 August	40°23.11'	67°35.85'	209.1	62.8
6016	2 September	41°09.50'	68°41.83'	66.4	68.9
6017	5 September	42°10.45'	67°57.51'	238.7	90.5
6018	7 September	40°55.90'	68°18.14'	46.3	48.5
6019	10 September	41°49.27'	68°16.39'	173.7	71.6
6020	13 September	39°25.41'	73°35.63'	39.0	43.9
6021	18 September	38°57.92'	72°49.20'	301.2	304.8

*No recovery; resistant layer at sea floor.

The results of various laboratory analyses of the samples are tabulated in this report as individual chapters authored by those persons responsible for that set of analyses.

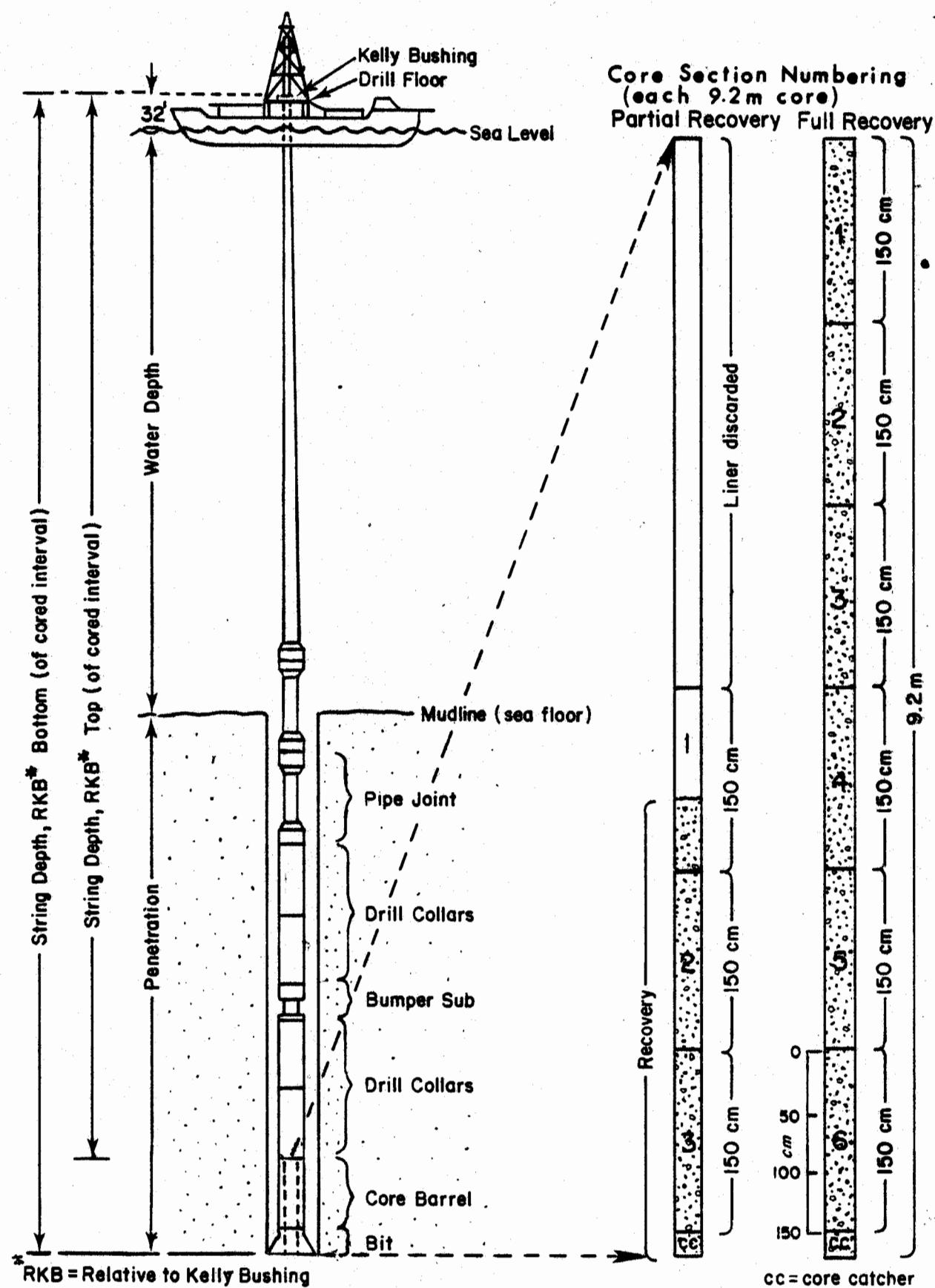
The samples are numbered in accordance with the system shown in figure 2: first by hole number, then by core and section number, then by position in centimeters below the top of each 150-cm section. Core catcher samples are designated CC. Thus, 6002-17-3-120 denotes a sample taken 120 cm from the top of section 3 of core 17 from hole 6002; the sample 6006 8CC is from the core catcher of core 8 from hole 6006. Approximate depth below the sea floor is given in Appendix I and can also be assessed from Hathaway and others (1976). In cores characterized by less than full undisturbed recovery this depth is uncertain because of the factors illustrated in figure 3. The uncertainty range is equal to the difference between the coring interval and the amount of recovery.

Reports by Richards (1978) and by Swanson and others (1978) contain further geotechnical data on AMCOR samples.

ACKNOWLEDGEMENTS

The authors would like to thank Edna Williams, Lester North, Pat Hernandez, Carol Renaud, Cathy Williamson, Tim Ling and Margie Bellinger for organizing and compiling this data and Bruce Kohn for calculating the depths given in Appendix I.

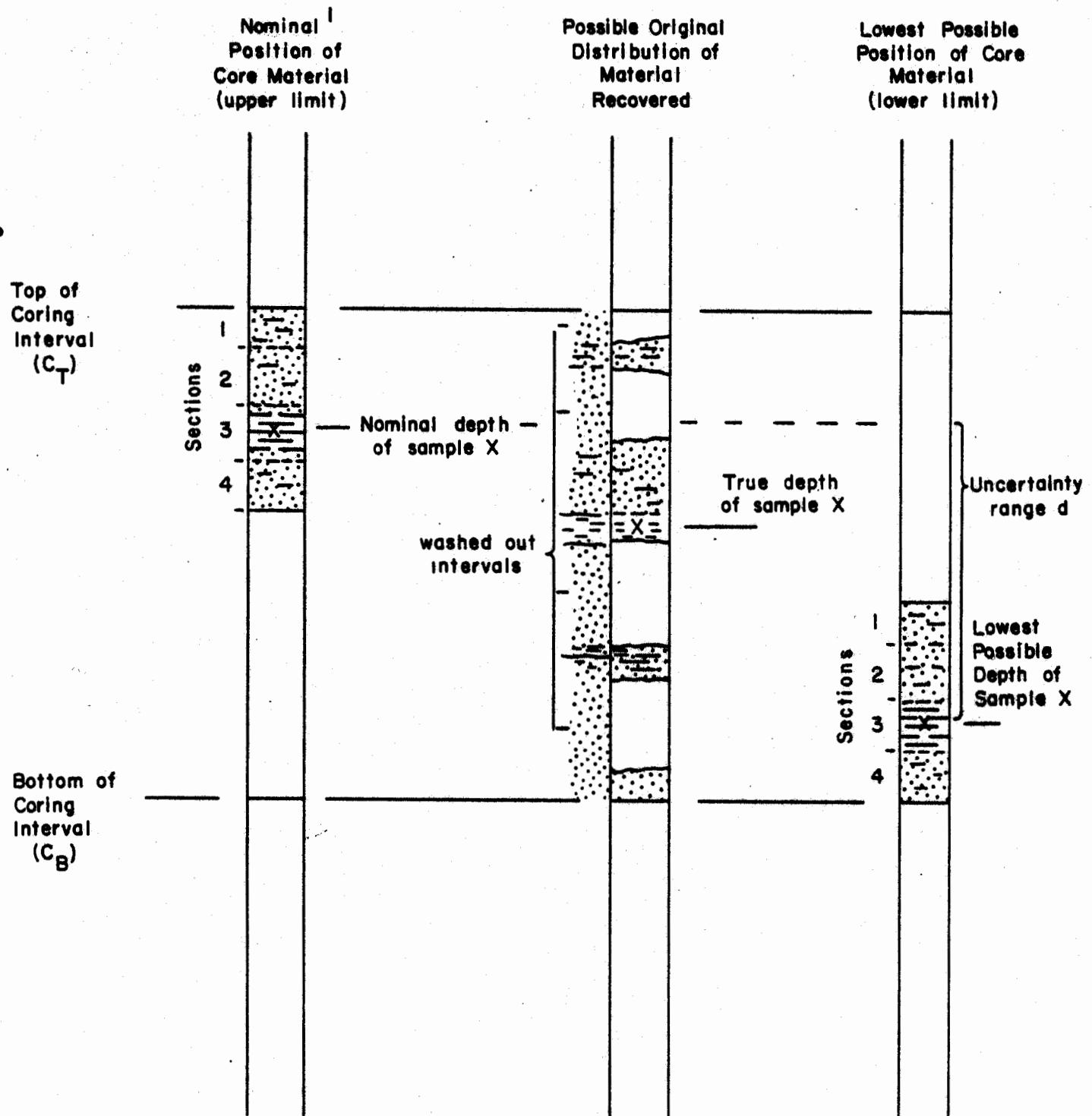
Figure 2. Explanation of Measurements and Core Numbering



Not to Scale

(from Hathaway and others 1976)

FIG. 3, EXPLANATION OF UNCERTAINTY OF SAMPLE DEPTH



¹ This convention is adopted on the assumption that much of the time, material will enter the core barrel when coring starts and that incomplete recovery is the result of core barrel plugging and washing away of the lower part of the interval. This is undoubtedly not always true; selective loss (such as in middle diagram) is also possible.

CHAPTER I

GRAIN SIZE ANALYSES

by Wayne M. Ferrebee

The weight percent of sediment contained in each size fraction is expressed in phi units (Size mm = $2^{-\phi}$). These weights were determined by sieving (gravel), a settling tube (sand) (Schlee, 1966), and a Coulter Counter, model TAII (silt and clay).

Phi Values

<u>Phi Class</u>	<u>Symbol</u>	<u>Millimeters</u>	<u>Phi Class</u>	<u>Symbol</u>	<u>Millimeters</u>
			6	6P	.0156
-1	-1P	2.0	7	7P	.0078
0	0P	1.0	8	8P	.0039
1	1P	.5	9	9P	.00195
2	2P	.25	10	10P	.00098
3	3P	.125	11	11P	.00049
4	4P	.0625			
5	5P	.0313			

HOLE	SEC	CM	-1P	OP	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P	11P
6002	1-1	6	.0	.0	29.4	49.1	15.7	3.9	.2	.3	.3	.3	.3	.3	.2
6002	2-1	11	.0	.0	.0	.0	.0	67.4	5.0	6.2	5.0	5.2	4.7	4.1	2.5
6002	4-6	137	.0	.0	.0	.0	.0	.4	6.2	18.5	25.6	22.1	13.8	9.1	4.0
6002	7-2	117	.0	.0	.0	2.4	15.3	17.1	5.9	9.5	12.7	12.2	11.3	8.4	5.0
6002	8-3	137	.0	.0	.0	.0	.0	.0	6.3	16.0	17.9	18.2	16.0	19.2	6.4
6002	9-6	137	.0	.0	.0	3.0	9.1	13.2	17.5	16.5	12.2	10.9	9.2	5.9	2.2
6002	10-2	113	.0	.0	.0	.0	.0	8.2	20.1	15.7	12.3	12.9	13.8	11.3	5.5
6002	11-1	113	.0	.0	.0	.0	3.4	13.8	27.2	16.1	10.8	9.8	7.9	6.7	3.6
6002	15-2	134	.0	.0	.0	.0	.0	2.4	7.0	14.8	16.8	18.1	14.9	14.5	11.4
6002	17-2	87	.0	.0	.0	.0	.0	3.2	16.0	21.5	15.3	15.8	13.3	9.5	5.5
6002	17-3	121	.0	.0	.0	.0	14.6	21.8	8.6	10.5	7.9	9.6	11.4	10.0	5.4
6002	19-2	105	.0	.0	8.6	14.6	6.4	15.9	11.2	9.4	10.2	9.5	5.9	5.1	3.0
6002	22-1	80	.0	.0	.0	8.7	10.1	14.8	21.5	9.6	5.2	7.5	10.7	8.9	2.9
6002	23-2	21	.0	.0	13.4	17.8	8.9	15.6	8.4	7.1	7.0	8.3	6.6	4.8	2.2
6002	33-1	72	.0	.0	.0	.0	.0	9.3	14.8	24.1	19.6	13.5	9.1	6.5	3.0
6004	1-2	127	.0	.0	.0	.0	15.3	61.4	6.8	4.8	2.8	2.5	2.7	2.5	1.3
6004	2-2	107	.0	.0	3.0	12.2	16.7	44.1	7.0	4.8	3.0	2.8	2.9	2.4	1.0
6004	3-1	132	.0	.0	.0	.0	25.8	60.1	4.8	2.2	1.1	1.2	1.6	2.1	1.0
6004	5-2	137	.0	.0	.0	.9	7.7	34.2	20.7	12.0	7.4	6.3	4.6	3.8	2.1
6004	5-4	99	.0	.0	.0	.0	.0	25.8	28.0	14.8	10.6	6.8	5.6	5.6	3.0
6004	6-2	75	.0	.0	.0	.0	.0	29.1	33.0	12.5	6.4	4.9	4.8	6.0	3.4
6004	6-4	125	.0	.0	.0	.0	.0	38.3	29.1	11.2	5.0	4.2	4.6	4.8	2.6
6004	7-1	125	.0	.0	.0	.0	2.3	36.8	29.0	11.0	5.0	4.0	4.6	4.8	2.6
6004	7-3	125	.0	.0	.0	.0	2.0	23.5	28.9	15.1	7.6	5.7	5.7	6.9	4.5
6004	7-6	125	.0	.0	.0	.0	1.5	13.9	31.6	22.2	8.6	6.2	5.8	6.4	3.6
6004	9-1	125	6.6	.0	3.5	13.9	3.5	13.9	17.8	15.3	9.8	6.0	4.3	3.5	1.9
6004	9-4	125	11.8	.0	31.3	11.9	2.2	8.6	12.0	8.8	4.2	2.8	2.6	2.4	1.4
6004	11-4	112	.0	.0	.0	.0	10.9	43.5	12.1	10.8	7.3	6.2	5.1	2.9	1.6
6004	14-6	5	.0	.0	.0	.0	.0	44.8	12.6	13.1	8.3	8.6	6.7	3.9	2.1
6004B	2-1	70	.0	.0	.0	.0	7.5	33.9	18.5	13.7	7.5	6.7	6.3	3.8	2.0
6004B	4-1	110	.0	.0	.0	.0	6.8	16.0	4.2	12.4	14.7	16.5	14.6	9.7	5.0
6004B	7-1	80	.0	.0	.0	.0	.0	3.2	9.0	13.0	13.0	23.2	21.0	10.6	6.9
6004B	12-2	70	.0	.0	.0	.9	17.3	73.0	3.8	1.2	.6	.8	1.0	.9	.5
6004B	14-2	97	.0	.0	.0	.0	.0	.6	5.8	11.9	13.7	24.3	24.4	11.0	8.4
6004B	15-1	99	.0	.0	.0	.0	.0	2.4	13.6	15.4	13.1	18.6	20.8	10.0	6.0
6004B	19-6	80	.0	.0	.0	.0	.0	14.3	22.2	12.6	7.5	8.8	12.0	13.7	9.0
6005	2-1	25	.0	.0	29.9	51.0	13.5	1.9	.1	.1	.1	.2	.9	1.5	.7
6005	5-1	145	19.6	.0	.0	.0	.0	7.8	7.5	7.8	6.0	7.3	12.8	18.2	13.0
6005	6-1	140	.0	.0	.0	.0	.0	25.0	21.7	14.2	6.3	7.0	11.4	10.2	4.4
6006	3-2	75	.0	.0	.0	3.8	60.9	30.4	1.1	.7	.6	.6	.4	.9	.6
6006	3-4	25	.0	.0	.0	25.9	56.7	13.5	1.5	.6	.2	.3	.4	.7	.3
6006	5-2	75	.0	.0	.0	.0	19.9	46.5	21.0	5.5	2.0	1.4	1.1	1.3	1.2
6006	6-6	65	.0	.0	.0	.0	1.2	40.3	5.7	11.3	9.7	8.7	8.8	8.5	5.8
6007	2-2	125	.0	.0	.0	.0	19.7	74.1	1.4	.9	.5	.6	1.4	1.0	.3
6007	4-5	120	.0	.0	.0	.0	.0	1.0	1.5	6.3	12.0	17.2	20.6	22.5	19.1
6007	5-2	115	.0	.0	.0	.0	2.3	21.0	22.9	18.3	13.0	9.4	6.2	4.8	2.3
6007	6-2	124	.0	.0	.0	.0	.0	1.3	6.0	14.3	16.8	16.7	16.8	17.1	11.0
6007	8-1	135	19.9	3.3	24.6	18.4	5.6	3.9	4.2	6.7	5.9	3.1	2.0	1.7	.7
6007	9-1	125	.0	.0	.0	1.2	4.9	6.2	23.3	22.5	11.8	9.2	8.6	3.0	
6007B	1-1	130	.0	.0	.0	.0	12.3	16.5	26.3	16.8	11.1	7.7	6.2	3.1	
6007B	10-1	133	.0	.0	.0	9.5	53.9	4.8	4.6	8.3	7.2	5.2	3.1	2.3	1.1
6007B	10-5	145	.0	.0	.0	.0	3.8	33.9	14.5	11.7	10.0	9.5	8.1	6.0	2.5
6007B	18-3	79	.0	2.9	38.2	38.2	12.4	3.8	.9	1.1	.7	.7	.6	.5	.1
6008	1-2	123	1.8	.0	.0	23.9	30.2	2.8	3.0	5.2	6.5	8.7	7.6	6.7	3.9
6008	1-4	125	.0	.0	.0	2.7	9.5	1.4	4.7	10.9	14.2	17.2	16.0	15.7	7.5
6008	3-1	136	8.6	.0	.0	2.0	3.8	28.5	7.5	10.6	10.6	10.4	8.1	6.5	3.3
6008	4-2	105	.4	.0	.0	.0	7.0	27.8	12.4	12.9	10.0	8.7	8.8	8.6	3.5
6008	5-1	125	.0	.0	4.9	76.9	14.8	2.0	.3	.2	.2	.2	.2	.2	.1
6008	6-1	115	2.3	.0	.0	31.2	39.4	3.7	1.7	3.0	3.7	5.4	5.0	3.2	1.4
6008	9-2	54	7.6	.0	.0	.0	.0	31.0	6.0	13.4	14.3	11.8	7.7	5.5	2.8
6008	10-1	115	.0	10.4	64.5	12.3	3.8	3.8	1.1	.9	.8	.7	.9	.6	.5
6008	12-1	0	.0	.0	.0	34.0	58.3	4.9	.9	.6	.3	.3	.3	.3	.2

HOLE	SEC	CM	-1P	0P	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P	11P
6008	13-1	50	.0	.0	.0	19.7	63.6	10.3	1.3	1.3	.9	.9	.9	.8	.5
6008	13-1	125	1.4	38.3	49.9	4.8	1.9	1.9	.5	.6	.4	.4	.4	.4	.2
6008	13-2	120	.0	57.0	36.4	2.9	2.0	.0	.1	.2	.2	.3	.3	.4	.3
6009B	1-1	81	.0	.0	.0	.0	.0	3.0	5.7	26.8	20.8	16.4	12.3	9.9	5.1
6009B	2-1	125	.0	.0	.0	19.7	70.8	7.9	.3	.2	.2	.2	.2	.3	.2
6009B	4-1	115	.5	.0	.0	.0	.0	1.7	1.1	6.2	10.3	18.0	24.6	25.7	12.1
6009B	8-3	115	.0	.0	.0	.0	.0	5.8	11.0	22.5	18.4	15.6	13.1	8.9	4.4
6009B	9-2	65	.0	.0	.0	.0	.0	6.0	4.9	13.6	14.4	19.2	20.0	14.0	7.6
6009B	10-2	105	.0	.0	.0	.0	2.9	11.4	4.9	8.0	8.1	8.7	18.9	25.2	11.9
6009B	11-1	105	1.8	1.0	1.3	1.6	2.1	3.7	9.8	18.4	17.7	15.7	12.6	9.9	4.5
6009B	14-4	97	2.7	.0	.0	.0	.0	11.3	9.8	14.9	13.8	12.4	13.0	14.0	7.9
6009B	16-1	120	.0	.0	29.0	57.0	9.7	1.0	.5	.7	.6	.6	.4	.3	.2
6009B	19-1	91	.0	.0	.0	24.2	46.6	22.4	4.5	1.2	.3	.2	.2	.2	.1
6009B	20-1	130	63.7	1.5	2.4	3.0	3.0	5.1	3.4	4.4	4.0	3.4	2.8	2.2	1.1
6009B	23-1	110	.0	.0	.0	9.3	71.0	13.1	1.5	1.3	1.0	.9	.7	.7	.4
6009B	27-1	40	.0	.0	.0	4.9	12.4	20.4	5.0	7.7	11.0	14.6	12.6	8.1	3.2
6009B	30-2	51	.0	.0	.0	.0	.0	.4	1.4	9.5	16.0	16.5	20.7	20.2	15.2
6009B	31-1	100	.0	.0	.0	58.6	35.1	3.9	.6	.4	.3	.3	.3	.3	.1
6010	2-2	119	.0	.0	.0	.0	.0	1.6	1.7	5.0	6.3	11.9	22.9	29.5	21.2
6010	3-2	105	.3	.0	.0	.0	.0	3.5	1.9	7.0	10.6	16.5	20.4	23.5	16.0
6010	4-2	105	.0	.0	.0	.0	.0	.7	1.7	9.2	13.8	15.4	20.4	23.3	15.8
6010	5-1	85	6.0	1.3	1.5	1.6	1.5	1.5	3.9	10.1	13.4	16.3	17.1	16.0	9.5
6010	7-2	105	.0	.0	.0	33.8	55.5	4.7	.6	1.1	1.1	1.1	.9	.7	.4
6010	7-4	125	.0	.0	.0	.0	.0	3.7	1.4	7.0	10.9	15.0	22.7	25.2	14.0
6010	8-1	100	.0	.0	.0	.0	.0	1.2	2.3	7.2	11.4	14.8	20.3	23.5	19.4
6010	9-2	85	2.1	.0	.3	4.5	8.6	2.6	3.2	9.0	14.0	17.1	15.2	14.6	8.5
6010	11-2	75	.0	.0	.0	.0	48.7	48.7	.8	.4	.2	.3	.4	.3	.3
6010	13-2	111	.0	.0	.0	.0	3.0	22.0	6.7	11.5	10.8	12.2	14.1	12.3	7.3
6010	16-2	90	.0	.0	.0	.0	.0	13.1	7.6	12.0	12.9	16.5	17.0	12.9	7.8
6010	17-1	140	.0	.0	.0	.0	9.2	56.6	10.7	6.0	3.5	4.0	4.1	3.5	2.6
6010	19-1	150	.0	.0	.0	.0	7.4	29.7	4.2	6.8	6.2	9.1	14.5	14.1	8.2
6010	21-2	100	.0	.0	.0	.0	.0	25.1	15.6	17.5	14.4	11.6	8.0	5.3	2.6
6010	23-1	100	.0	.0	.0	.0	.0	3.6	7.4	20.8	22.4	19.4	12.8	9.0	4.7
6010	26-2	100	.0	.0	.0	.0	.0	1.3	5.1	16.6	21.2	21.0	14.9	11.8	6.9
6010	27-1	75	.0	.0	.0	1.8	70.2	19.2	1.9	1.5	1.3	1.3	1.2	1.0	.6
6010	27-1	130	.0	.0	.0	.0	2.8	11.3	15.1	20.4	16.0	13.4	10.2	7.2	3.6
6011	1-1	100	.1	.0	.0	.0	.0	3.2	11.9	16.2	15.9	15.0	14.9	14.3	8.3
6011	7-1	123	23.6	.0	.0	.0	2.9	6.8	8.8	12.9	12.6	12.1	9.9	7.1	3.3
6011	8-1	75	.0	.0	.0	.0	.0	1.0	10.5	20.2	22.4	20.0	12.7	9.1	4.1
6011	8-3	75	.0	.0	.0	.0	.0	1.0	6.6	17.0	22.0	20.6	15.5	11.7	5.7
6011	8-5	75	.0	.0	.0	.0	.0	.5	6.3	18.1	22.7	24.0	14.4	9.5	4.3
6011	9-1	125	.0	.0	.0	.0	.0	1.6	6.7	16.4	20.4	21.5	16.0	11.8	5.2
6011	10-1	140	.0	1.0	47.9	38.3	7.7	1.9	.5	.3	.3	.5	1.1	1.2	.4
6011	11-2	75	.0	.0	.0	.0	.0	.4	5.6	11.9	12.5	14.3	21.9	21.6	11.6
6011	12-1	125	12.6	3.2	10.1	3.5	5.8	5.8	7.3	12.8	12.4	10.1	7.0	5.7	2.9
6011	13-1	130	.0	.0	.0	.0	.0	1.5	17.8	24.6	21.0	14.8	9.4	7.2	3.8
6011	13-6	60	.0	.0	.0	.0	.0	.8	11.9	25.9	21.2	17.4	10.8	7.7	4.2
6011	14-2	75	.0	.0	.0	.0	.0	1.9	11.6	26.0	23.2	15.4	10.5	7.6	3.8
6011	16-2	115	.0	.0	2.9	6.7	9.6	28.7	14.2	11.5	8.5	7.5	5.4	3.5	1.5
6011	20-1	140	4.0	.0	1.1	22.0	19.1	14.1	4.9	5.0	5.9	7.7	7.3	6.0	3.0
6011	22-1	140	.0	.0	.0	.0	.0	56.3	12.7	9.0	8.8	6.6	3.8	2.1	.7
6011	23-1	130	.0	.0	.0	35.6	40.1	13.4	5.8	2.0	1.0	.9	.6	.5	.2
6011	26-2	70	.0	.0	2.9	90.3	4.9	.0	.4	.4	.4	.3	.2	.2	.1
6011	28-6	69	.0	.0	.0	.0	1.7	15.0	18.4	15.6	11.9	12.3	11.9	9.2	3.8
6012	1-5	95	.0	.0	.0	.0	.0	7.5	11.6	10.2	10.5	14.2	16.2	18.4	11.4
6012	2-6	75	.0	.0	.0	.0	.0	7.7	7.8	11.8	13.5	15.2	16.1	16.7	11.3
6012	3-2	95	.0	.0	.0	.0	.0	7.7	5.6	11.5	12.7	15.0	15.9	19.7	11.9
6012	3-4	105	.0	.0	.0	.0	.0	9.8	6.2	10.3	9.8	11.7	15.6	20.8	15.8
6012	3-6	85	.0	.0	.0	.0	.0	3.0	5.0	8.5	9.8	17.4	21.1	23.5	11.3
6012	4-3	99	.4	.0	.0	2.7	5.4	4.2	7.1	11.6	13.3	15.6	14.7	16.4	8.7
6012	5-4	105	.0	.0	.0	.0	.0	3.1	6.2	12.4	14.1	17.2	18.3	17.5	11.1
6012	6-1	105	.8	.0	.0	2.0	9.4	1.2	3.6	7.7	10.3	15.4	17.9	20.0	11.9
6012	8-2	105	.0	.0	.0	.0	.0	1.6	4.9	10.9	12.1	17.1	17.1	24.9	11.2

HOLE	SEC	CM	-1P	OP	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P	11P
6012	9-2	115	.0	.0	.0	.0	.0	1.6	2.0	9.6	17.8	25.1	23.1	15.4	5.0
6012	12-6	50	.0	.0	.0	.0	.0	4.6	10.1	18.0	16.9	17.2	16.2	12.0	5.0
6012	18-4	124	.0	.0	.0	.0	.0	8.1	4.6	13.6	16.0	17.6	18.0	15.3	7.0
6012	23-4	50	.0	.0	.0	.0	.0	1.9	7.1	16.4	15.4	16.6	18.5	16.5	7.7
6012	28-2	50	.0	.0	.0	.0	.0	1.3	8.9	16.3	14.2	15.2	15.5	16.7	11.9
6012	33-4	35	.0	.0	.0	.0	.0	7.2	5.8	13.9	16.3	20.0	18.4	13.0	5.3
6012	33-4	97	.0	.0	.0	.0	.0	55.4	8.7	9.7	7.9	6.7	5.8	4.2	1.7
6013	4-1	135	.0	.0	.0	1.7	9.0	6.6	3.1	7.8	11.3	14.5	17.2	19.0	9.5
6013	5-2	2	.0	.0	.0	1.3	21.9	39.4	8.6	7.1	5.9	5.3	4.9	3.7	1.7
6013	6-2	125	.0	.0	.0	1.2	29.1	27.9	7.9	7.0	5.8	5.2	5.5	6.2	4.2
6013	6-3	85	.0	.0	.0	.0	25.6	25.6	6.1	8.3	8.1	8.6	8.0	6.8	2.8
6013	7-3	75	.0	.0	.0	.0	.0	3.2	7.9	12.4	11.9	14.5	17.8	24.6	7.3
6013	7-5	35	.0	.0	.0	.0	.0	1.8	6.6	11.0	14.3	19.1	18.6	18.2	10.4
6013	7-6	138	.0	.0	.0	.0	.0	2.6	7.5	14.3	16.9	17.1	17.6	17.2	6.7
6013	8-2	105	.0	.0	.0	7.7	57.8	11.6	2.3	5.1	4.9	4.3	3.3	2.2	.9
6013	8-2	138	.0	.0	.0	13.4	57.4	7.9	4.4	4.9	3.6	3.3	2.6	1.8	.9
6013	11-2	110	.0	.0	5.9	40.3	41.3	10.8	.4	.2	.2	.2	.3	.1	
6013	11-4	115	1.0	1.0	14.6	35.1	38.0	8.8	.3	.2	.2	.2	.3	.1	
6013B	15-1	110	.0	.0	.0	0	43.7	18.7	4.9	7.1	7.4	7.4	5.8	3.6	1.3
6013B	16-2	12	.0	.0	.0	0	13.2	24.5	6.2	10.0	11.4	12.8	11.3	7.5	2.9
6013B	18-2	21	.0	.0	.0	.0	36.7	19.7	3.9	9.5	9.7	8.8	6.3	3.9	1.4
6013B	22-2	88	.0	.0	.0	.0	25.7	38.5	3.3	6.6	7.1	7.3	6.2	4.0	1.5
6013B	26-1	145	.0	.0	.0	.0	16.8	35.6	4.7	8.7	9.4	9.2	8.2	5.5	1.9
6013B	28-1	110	.0	.0	.0	.0	33.3	36.1	4.7	6.4	6.0	5.3	4.3	2.9	1.0
6013B	31-1	140	.0	.0	.0	16.9	33.8	16.9	3.3	6.4	7.1	6.3	4.8	3.3	1.2
6014	2-3	116	4.3	.0	.0	.0	.0	20.4	1.3	6.8	15.1	17.8	15.3	12.7	6.3
6014	2-3	139	.0	.0	.0	.0	.0	9.0	4.0	11.0	13.8	18.3	18.5	16.4	9.0
6014	6-2	85	.0	.0	.0	16.6	72.2	8.8	.1	.1	.1	.3	.6	.8	.4
6014	7-2	85	.0	.0	.0	.0	35.7	18.4	6.1	8.2	6.9	7.6	7.8	6.6	2.7
6014	7-4	81	.0	.0	.0	.0	20.4	34.8	8.9	10.1	8.2	6.7	5.2	4.0	1.7
6014	9-1	100	30.2	64.0	3.4	.0	.0	.0	.1	.2	.2	.3	.5	.7	.3
6014	10-1	120	.0	.0	.0	.0	13.0	27.6	6.9	12.9	12.8	10.6	8.1	5.8	2.1
6015	2-1	143	.0	.0	3.3	32.9	19.8	9.9	3.4	8.3	7.8	6.1	4.1	3.0	1.4
6015	4-1	125	.0	.0	.0	0	0	1.2	3.8	10.8	16.8	19.0	18.9	17.6	11.9
6015	6-1	120	.0	.0	.0	1.0	7.5	17.2	7.0	8.6	8.5	10.6	13.7	15.6	10.5
6016B	2-1	140	.0	.0	19.2	24.0	47.9	4.8	.4	.4	.5	.6	.9	1.0	.4
6016B	6-1	75	.0	.0	.0	.0	2.0	26.0	19.4	13.3	9.8	9.8	8.8	7.3	3.7
6017	1-2	75	4.0	.8	8.3	11.1	11.5	7.9	1.1	2.1	2.6	7.4	16.4	17.4	9.4
6017	2-3	60	.0	3.4	11.2	13.6	10.7	9.7	2.6	8.4	11.8	12.4	8.7	5.3	2.1
6017	5-1	136	1.4	.0	.6	5.1	3.5	3.6	3.0	9.0	11.8	15.5	17.9	19.6	8.8
6017	7-1	45	.0	.0	.0	.0	.0	3.4	3.0	8.5	10.0	15.3	20.8	26.9	12.0
6017	8-1	115	8.7	.4	4.1	10.4	12.8	13.7	6.1	8.0	8.3	8.5	8.4	8.3	2.2
6017	9-1	134	5.4	.9	3.5	12.8	14.6	12.4	6.7	8.1	8.2	9.2	8.5	7.8	2.0
6018	6-2	25	.0	.0	.0	33.9	59.0	3.9	.9	.4	.3	.3	.4	.5	.2
6019	1CC	.0	.0	.0	.0	.0	.0	10.2	13.0	16.1	15.1	15.4	17.4	9.9	3.2
6019	2-2	118	.0	.0	.0	.0	.0	6.8	13.5	22.3	18.2	15.9	11.9	8.3	3.1
6019	2-3	122	.0	.0	.0	.0	.0	.0	9.6	20.6	19.0	18.4	14.9	12.3	5.3
6019	3-1	140	.2	.0	.0	.0	.0	2.9	12.5	26.6	23.3	16.9	10.1	5.6	1.6
6019	4-1	30	1.7	.0	.0	.0	1.6	9.2	11.5	15.8	14.0	11.0	14.9	14.0	6.4
6019	5-1	81	.0	.0	.0	2.5	7.5	14.9	14.0	16.9	15.3	12.9	8.7	5.3	2.1
6019	8-1	30	8.7	.0	.0	23.6	23.6	11.8	2.9	4.1	5.1	7.6	6.4	4.1	1.9
6019B	1-2	118	.0	.0	.0	.0	.0	22.5	16.5	13.9	13.2	12.9	11.2	7.4	2.3
6020	1-1	85	.0	.0	.0	.0	3.2	8.3	5.0	7.9	8.1	11.9	18.7	21.7	15.5
6020	2-2	25	.0	.0	.0	1.5	9.2	2.0	2.2	8.0	8.6	12.7	18.5	24.5	12.8
6020	3-2	118	.0	.0	.0	.0	.0	1.4	3.4	9.1	14.0	15.6	15.6	29.2	11.7
6020	4-2	15	.0	.0	7.2	11.5	5.8	4.3	3.7	8.3	8.8	10.4	12.6	15.7	11.8
6020	4-2	40	4.0	3.7	20.7	11.2	5.0	.8	.4	1.5	2.3	4.6	12.1	18.7	15.1
6020	6-1	72	.8	.0	.0	.0	4.1	5.1	5.0	10.7	12.0	14.8	18.0	18.4	11.4
6021	1-3	10	.0	.0	.0	.0	.0	5.2	4.6	12.0	13.1	16.1	16.3	20.0	12.6
6021	1-3	115	.0	.0	.0	.0	8.4	16.4	11.4	12.0	11.1	12.2	11.3	11.2	6.2
6021	2-2	112	.0	.0	.0	.0	2.5	13.0	11.2	11.8	9.9	13.1	14.8	14.5	9.1
6021	2-3	125	.0	.0	.0	.0	4.8	8.8	7.6	10.2	10.6	13.7	17.1	16.0	11.0
6021	2-4	50	.0	.0	.0	.0	8.1	14.9	15.9	13.2	11.4	12.0	11.8	9.0	3.6

HOLE	SEC	CM	-1P	0P	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P	11P
6021C	1-2	12	.0	.0	.0	.0	.0	2.6	6.1	16.0	17.9	17.9	14.1	14.0	11.2
6021C	1-2	112	.0	.0	.0	.6	6.5	14.5	9.4	10.0	11.2	12.5	12.8	13.4	8.9
6021C	3-2	115	.0	.0	.0	.0	.0	7.3	11.0	14.9	13.8	13.0	14.5	15.4	10.1
6021C	6-1	113	.0	.0	.0	.0	2.2	10.2	8.7	13.3	15.9	15.9	13.8	12.4	7.6
6021C	7-1	38	.0	.0	.0	.0	.0	4.7	4.8	7.1	6.6	12.6	21.9	27.6	14.6
6021C	8-3	27	.0	.0	.0	.0	.0	7.7	9.0	15.5	16.4	16.6	15.4	12.5	6.6
6021C	9-2	25	.0	.0	.0	.0	.0	5.4	5.0	13.6	17.4	18.4	16.7	14.6	8.8
6021C	10-2	127	.0	.0	.0	.0	.0	3.6	7.0	12.1	13.0	15.4	18.6	18.8	11.5
6021C	11-3	120	.0	.0	.0	.0	.0	2.7	6.0	12.7	12.8	15.3	19.8	19.2	11.4
6021C	12-3	70	.0	.0	.0	.0	.0	4.1	11.7	15.2	16.4	16.4	15.5	13.4	7.4
6021C	14-1	110	.0	.0	.0	.0	.0	11.2	9.0	16.4	17.8	17.3	14.0	9.9	4.6
6021C	17-1	100	.0	.0	.0	.0	.0	7.2	4.3	15.6	18.1	17.3	15.6	13.6	8.4
6021C	21-2	100	.0	.0	.0	.0	.0	6.9	7.3	17.6	20.1	18.2	13.5	10.1	6.2
6021C	26-3	75	.0	.0	.0	.0	.0	9.5	7.6	16.9	18.5	16.3	12.8	10.5	8.1
6021C	29-1	100	.0	.0	.0	.0	.0	4.3	6.8	16.8	18.2	16.6	15.3	13.5	8.4
6021C	32-1	69	.0	.0	.0	.0	.0	6.4	6.3	14.1	17.8	17.8	15.9	13.3	8.4

CHAPTER II

GRAIN SIZE DISTRIBUTIONS AND TEXTURAL PARAMETERS

by Wayne M. Ferrebee

These values were calculated from the phi class data presented in the preceding section. The computer program used to generate this data was designed by Schlee and Webster (1967) and uses the method of moments.

Explanation of Headings

GR%	Percent gravel, particles greater than -1 phi (2mm) in diameter.
SA%	Percent sand, particles between -1 phi and 4 phi (2mm - 0.0625mm) in diameter.
SI%	Percent silt, particles between 4 phi and 8 phi (0.0625mm - 0.0039mm) in diameter.
CL%	Percent clay, particles less than 8 phi (0.0039mm) in diameter.
MD	Median grain diameter in phi units.
MN	Mean grain diameter in phi units.
SD	Standard deviation of grain-size distribution in phi units.
SK	Skewness of grain size distribution.
K	Kurtosis of grain size distribution.
M1, M2, M3	Modes in phi units; M1 - coarsest to M3 = finest.

HOLE	SEC	CM	GRZ	SAZ	SIX	CLX	MD	MN	SD	SK	K	M1	M2	M3
6002	1-1	6	.0	98.1	1.1	.8	1.42	1.56	1.13	1.83	20.88	1.5		
6002	2-1	11	.0	67.4	21.4	11.3	3.74	4.69	1.99	.79	1.06	3.5	7.5	
6002	4-6	137	.0	.6	72.5	26.9	6.97	7.11	1.50	.16	.00	6.5		
6002	7-2	117	.0	34.8	40.3	24.7	5.98	5.84	2.56	.06	.00	3.5	6.5	
6002	8-3	137	.0	.0	58.4	41.6	7.54	7.55	1.67	-.02	.00	7.5		
6002	9-6	137	.0	25.4	57.1	17.3	5.44	5.63	2.19	.12	.00	4.5		
6002	10-2	113	.0	8.2	61.0	30.6	6.49	6.66	2.04	.10	.00	4.5	8.5	
6002	11-1	113	.0	17.2	64.4	18.2	5.35	5.84	2.04	.31	.00	4.5		
6002	15-2	134	.0	2.4	56.7	40.8	7.50	7.51	1.86	-.04	.00	7.5		
6002	17-2	87	.0	3.2	68.6	28.3	6.61	6.80	1.84	.15	.00	5.5		
6002	17-3	121	.0	36.4	36.6	26.8	5.48	5.82	2.56	.15	.00	3.5	8.5	
6002	19-2	105	.0	45.5	40.3	14.0	4.40	4.69	2.77	.13	.00	1.5	6.5	
6002	22-1	80	.0	33.6	43.8	22.5	4.76	5.36	2.54	.18	.00	4.5	8.5	
6002	23-2	21	.0	55.7	30.8	13.6	3.63	4.19	2.87	.24	.00	1.5	7.5	
6002	33-1	72	.0	9.3	72.0	18.6	6.09	6.32	1.77	.22	.00	5.5		
6004	1-2	127	.0	76.7	16.9	6.5	3.57	4.07	1.69	1.10	4.12	3.5		
6004	2-2	107	.0	76.0	17.6	6.3	3.41	3.73	1.96	.71	2.08	3.5		
6004	3-1	132	.0	85.9	9.3	4.7	3.40	3.69	1.49	1.47	8.61	3.5		
6004	5-2	137	.0	42.7	46.4	10.5	4.35	4.94	1.97	.53	.35	3.5		
6004	5-4	99	.0	25.8	60.2	14.2	4.86	5.49	1.94	.50	.00	4.5		
6004	6-2	75	.0	29.1	56.8	14.2	4.63	5.30	1.97	.62	.40	4.5	9.5	
6004	6-4	125	.0	38.3	49.5	12.0	4.40	5.04	1.89	.72	.98	3.5		
6004	7-1	125	.0	39.1	49.0	12.0	4.38	5.00	1.92	.70	.96	3.5		
6004	7-3	125	.0	25.5	57.3	17.1	4.85	5.54	2.09	.48	.00	4.5	9.5	
6004	7-6	125	.0	15.4	68.6	15.8	5.14	5.68	1.92	.49	.03	4.5	9.5	
6004	9-1	125	6.6	34.7	48.9	9.7	4.48	4.33	2.77	-.07	.00	-1.5	1.5	4.5
6004	9-6	125	11.8	53.9	27.8	6.4	1.58	2.62	2.98	.33	.00	-1.5	4.5	
6004	11-4	112	.0	54.4	36.4	9.6	3.90	4.73	1.95	.59	.40	3.5		
6004	14-6	5	.0	44.8	42.6	12.7	4.41	5.08	1.84	.47	.00	3.5	7.5	
6004B	2-1	70	.0	41.4	46.4	12.1	4.46	5.06	1.99	.49	.00	3.5		
6004B	4-1	110	.0	22.8	47.8	29.3	6.72	6.49	2.27	-.08	.00	3.5	7.5	
6004B	7-1	80	.0	3.2	58.2	38.5	7.51	7.34	1.77	-.11	.00	7.5		
6004B	12-2	70	.0	91.2	6.4	2.4	3.44	3.56	1.10	1.97	18.27	3.5		
6004B	14-2	97	.0	.6	55.7	43.8	7.74	7.64	1.60	-.10	.00	8.5		
6004B	15-1	99	.0	2.4	60.7	36.8	7.30	7.14	1.82	-.02	.00	5.5	8.5	
6004B	19-6	80	.0	14.3	51.1	34.7	6.12	6.60	2.33	.12	.00	4.5	9.5	
6005	2-1	25	.0	96.3	.5	3.1	1.39	1.64	1.58	1.95	16.69	1.5		
6005	5-1	145	19.6	7.8	28.6	44.0	7.18	5.86	4.18	-.38	.00	-1.5	3.5	9.5
6005	6-1	140	.0	25.0	49.2	26.0	5.23	5.96	2.24	.29	.00	3.5	8.5	
6006	3-2	75	.0	95.1	3.0	1.4	2.76	3.00	1.15	2.10	20.66	2.5		
6006	3-4	25	.0	96.1	2.6	1.4	2.43	2.54	1.10	1.99	21.82	2.5		
6006	5-2	75	.0	66.4	29.9	3.6	3.65	3.95	1.44	1.20	6.81	3.5		
6006	6-6	65	.0	41.5	35.4	23.1	5.25	5.77	2.38	.28	.00	3.5	8.5	
6007	2-2	125	.0	93.8	3.4	2.7	3.41	3.53	1.08	2.10	19.29	3.5		
6007	4-5	120	.0	1.0	37.0	62.2	8.58	8.40	1.61	-.29	.00	9.5		
6007	5-2	115	.0	23.3	63.6	13.3	5.21	5.59	1.89	.36	.00	4.5		
6007	6-2	124	.0	1.3	53.8	44.9	7.69	7.65	1.80	-.07	.00	6.5	9.5	
6007	8-1	135	19.6	55.8	19.9	4.4	1.12	1.94	2.96	.44	.00	-1.5	5.5	
6007	9-1	125	.0	12.3	66.8	20.8	5.64	6.02	2.05	.17	.00	4.5		
6007B	1-1	130	.0	12.3	70.7	17.0	5.81	6.11	1.81	.29	.00	5.5		
6007B	10-1	133	.0	68.2	25.3	6.5	2.75	3.78	2.18	.64	.48	2.5	5.5	
6007B	10-5	145	.0	37.7	45.7	16.6	4.85	5.46	2.13	.34	.00	3.5		
6007B	18-3	79	.0	95.4	3.4	1.2	1.23	1.50	1.44	1.43	10.79	1.5		
6008	1-2	123	1.8	56.9	23.4	18.2	2.80	4.36	3.05	.28	.00	2.5	7.5	
6008	1-4	125	.0	13.6	47.0	39.4	7.38	7.00	2.39	-.32	.00	2.5	7.5	
6008	3-1	136	8.6	34.3	39.1	17.9	4.95	5.04	2.99	-.19	.00	-1.5	3.5	
6008	4-2	105	.4	34.8	44.0	20.9	5.19	5.64	2.33	.20	.00	3.5	8.5	
6008	5-1	125	.0	98.6	.9	.5	1.59	1.72	.80	3.08	50.23	1.5		
6008	6-1	115	2.3	74.3	13.8	9.6	2.42	3.31	2.55	.62	.63	2.5	7.5	
6008	9-2	54	7.6	31.0	45.5	16.0	5.40	5.26	2.79	-.29	.46	-1.5	3.5	6.5
6008	10-1	115	.0	94.8	3.5	2.0	.61	1.07	1.70	1.62	11.48	.5		
6008	12-1	0	.0	97.1	2.1	.8	2.27	2.33	.93	2.28	29.79	2.5		
6008	13-1	125	1.4	95.8	1.9	1.0	.21	.42	1.40	1.96	19.19	.5		
6008	13-1	50	.0	93.6	4.4	2.2	2.48	2.70	1.32	1.77	14.31	2.5		
6008	13-2	120	.0	98.3	.8	1.0	.12	.14	1.25	2.73	35.53	-.5		

HOLE	SEC	CM	GR%	SAX	SIZ	CL%	MD	MN	SD	SK	K	M1	M2	M3
6009B	1-1	81	.0	3.0	69.7	27.3	6.70	6.94	1.69	.17	.00	5.5		
6009B	2-1	125	.0	98.4	.9	.7	2.43	2.46	.81	2.77	45.13	2.5		
6009B	4-1	115	.5	1.7	35.6	62.4	8.50	8.25	1.69	-.74	4.78	9.5		
6009B	8-3	115	.0	5.8	67.5	26.4	6.58	6.74	1.80	.11	.00	5.5		
6009B	9-2	65	.0	6.0	52.1	41.6	7.58	7.40	1.86	-.16	.00	3.5	8.5	
6009B	10-2	105	.0	14.3	29.7	56.0	8.32	7.56	2.38	-.33	.00	3.5	9.5	
6009B	11-1	105	1.8	9.7	61.6	27.0	6.58	6.44	2.44	-.45	1.26	5.5		
6009B	14-4	97	2.7	11.5	50.9	34.9	6.80	6.71	2.52	-.38	.99	3.5	9.5	
6009B	16-1	120	.0	96.7	2.4	.9	1.37	1.51	1.19	2.03	21.12	1.5		
6009B	19-1	91	.0	93.2	6.2	.5	2.55	2.66	.99	1.15	11.21	2.5		
6009B	20-1	130	63.7	14.9	15.2	6.1	1.22	.71	3.39	.62	.02	-1.5	3.5	
6009B	23-1	110	.0	93.4	4.7	1.8	2.57	2.82	1.21	1.92	16.73	2.5		
6009B	27-1	40	.0	37.7	38.3	23.9	5.95	5.74	2.56	.03	.00	3.5	7.5	
6009B	30-2	51	.0	.4	43.4	56.1	8.30	8.16	1.61	-.15	.00	8.5		
6009B	31-1	100	.0	97.6	1.6	.7	1.85	2.05	.92	2.40	30.73	1.5		
6010	2-2	119	.0	1.6	24.9	73.6	9.02	8.68	1.59	-.56	.87	9.5		
6010	3-2	105	.3	3.5	36.0	59.9	8.50	8.19	1.84	-.53	1.76	9.5		
6010	4-2	105	.0	.7	40.1	59.5	8.45	8.24	1.64	-.23	.00	9.5		
6010	5-1	85	6.0	7.4	43.7	42.6	7.56	6.84	3.11	-.67	1.23	-1.5	8.5	
6010	7-2	105	.0	94.0	3.9	2.0	2.29	2.49	1.34	1.78	14.11	2.5		
6010	7-4	125	.0	3.7	34.3	61.9	8.53	8.21	1.74	-.42	.16	9.5		
6010	8-1	100	.0	1.2	35.7	63.2	8.65	8.38	1.68	-.33	.00	9.5		
6010	9-2	85	2.1	16.0	43.3	38.3	7.33	6.77	2.78	-.45	.23	2.5	7.5	
6010	11-2	75	.0	97.3	1.7	1.0	3.03	3.11	.84	2.58	36.10			
6010	13-2	111	.0	25.0	41.2	33.7	6.63	6.54	2.39	.00	.00	3.5	8.5	
6010	16-2	90	.0	13.1	49.0	37.7	7.27	7.04	2.12	-.10	.00	3.5	8.5	
6010	17-1	140	.0	65.8	24.2	10.2	3.72	4.50	1.97	.84	1.68	3.5		
6010	19-1	150	.0	37.1	26.3	36.8	6.31	6.29	2.68	.04	.00	3.5	8.5	
6010	21-2	100	.0	25.1	59.1	15.9	5.53	5.80	1.95	.28	.00	3.5		
6010	25-1	100	.0	3.6	70.0	26.5	6.81	6.94	1.68	.10	.00	6.5		
6010	26-2	100	1.0	1.3	63.9	33.6	7.28	7.34	1.65	.06	.00	6.5		
6010	27-1	75	.0	91.2	6.0	2.8	2.69	3.06	1.36	1.74	12.25	2.5		
6010	27-1	130	.0	14.1	64.9	21.0	6.03	6.24	1.97	.13	.00	5.5		
6011	1-1	100	.1	3.2	59.0	37.5	7.18	7.21	1.94	-.03	.00	5.5		
6011	7-1	123	23.6	9.7	46.4	20.3	5.61	4.65	3.85	-.27	.00	-1.5	5.5	
6011	8-1	75	.0	1.0	73.1	25.9	6.82	6.95	1.62	.15	.00	6.5		
6011	8-3	75	.0	1.0	66.2	32.9	7.17	7.26	1.63	.07	.00	6.5		
6011	8-5	75	.0	.5	71.1	28.2	7.10	7.16	1.52	.12	.00	7.5		
6011	9-1	125	.0	1.6	65.0	33.0	7.23	7.25	1.64	.02	.00	7.5		
6011	10-1	140	.0	95.7	1.6	2.7	1.03	1.40	1.59	1.86	15.11	.5		
6011	11-2	75	.0	.4	44.3	55.1	8.24	7.95	1.74	-.20	.00	8.5		
6011	12-1	125	12.6	29.2	42.6	15.6	5.13	4.32	3.56	-.12	1.13	-1.5	5.5	
6011	13-1	130	.0	1.5	78.2	20.4	6.29	6.56	1.67	.29	.00	5.5		
6011	13-6	60	.0	.8	76.4	22.7	6.54	6.77	1.62	.26	.00	5.5		
6011	14-2	75	.0	1.9	76.2	21.9	6.45	6.69	1.62	.25	.00	5.5		
6011	16-2	115	.0	47.9	41.7	10.4	4.15	4.69	2.24	.27	.00	3.5		
6011	20-1	140	4.0	56.3	23.5	16.3	3.26	4.20	3.01	.23	.00	1.5	7.5	
6011	22-1	140	.0	56.3	37.1	6.6	3.89	4.70	1.69	.70	.88	3.5		
6011	23-1	130	.0	89.1	9.7	1.3	2.36	2.63	1.33	1.24	8.15	2.5		
6011	26-2	70	.0	98.1	1.5	.5	1.52	1.62	.77	4.06	68.33	1.5		
6011	28-6	69	.0	16.7	58.2	24.9	5.96	6.25	2.10	.14	.00	4.5	7.5	
6012	1-5	95	.0	7.5	46.5	46.0	7.72	7.41	2.14	-.15	.00	4.5	9.5	
6012	2-6	75	.0	7.7	48.3	44.1	7.61	7.42	2.07	-.14	.00	9.5		
6012	3-2	95	.0	7.7	44.8	47.5	7.83	7.58	2.06	-.20	.00	3.5	9.5	
6012	3-4	105	.0	9.8	38.0	52.2	8.14	7.66	2.22	-.24	.00	3.5	9.5	
6012	3-6	85	.0	3.0	40.7	55.9	8.30	7.98	1.80	-.33	.00	9.5		
6012	4-3	99	.4	12.2	47.6	39.8	7.34	7.02	2.41	-.31	.00	2.5	7.5	
6012	5-4	105	.0	3.1	49.9	46.9	7.83	7.67	1.86	-.15	.00	8.5		
6012	6-1	105	.8	12.5	37.0	49.8	7.97	7.36	2.56	-.49	.33	2.5	9.5	
6012	8-2	105	.0	1.6	45.0	53.2	8.20	7.96	1.77	-.24	.00	9.5		
6012	9-2	115	.0	1.6	54.5	43.5	7.76	7.70	1.48	-.16	.00	7.5		
6012	12-6	50	.0	4.6	62.2	33.2	7.02	7.04	1.82	.00	.00	5.5		
6012	18-4	124	.0	8.1	51.8	40.3	7.44	7.30	1.93	-.15	.00	3.5	8.5	
6012	25-4	50	.0	1.9	55.5	42.7	7.55	7.48	1.79	-.07	.00	5.5	8.5	
6012	28-2	50	.0	1.3	54.6	44.1	7.61	7.56	1.90	-.05	.00	5.5	9.5	

HOLE	SEC	CM	GR%	SAX	SIX	CL%	MD	MN	SD	SK	K	M1	M2	M3
6012	33-4	35	.0	7.2	56.0	36.7	7.34	7.20	1.85	-.13	.00	3.5	7.5	
6012	33-4	97	.0	55.4	33.0	11.7	3.90	4.95	1.97	.60	.15	3.5		
6013	4-1	135	.0	17.4	36.7	45.7	7.72	7.16	2.50	-.32	.00	2.5	9.5	
6013	5-2	2	.0	62.6	26.9	10.3	3.68	4.46	2.10	.62	.47	3.5		
6013	6-2	125	.0	58.1	25.9	15.9	3.71	4.73	2.48	.50	.00	2.5	9.5	
6013	6-3	85	.0	51.2	31.1	17.6	3.95	5.06	2.46	.33	.00	5.5		
6013	7-3	75	.0	3.2	46.7	49.7	8.01	7.66	1.89	-.22	.00	5.5	9.5	
6013	7-5	35	.0	1.8	51.0	47.2	7.85	7.73	1.78	-.16	.00	7.5		
6013	7-6	138	.0	2.6	55.8	41.5	7.51	7.44	1.79	-.09	.00	8.5		
6013	8-2	105	.0	78.6	16.2	5.3	2.64	3.34	1.96	.93	2.62	2.5		
6013	8-2	138	.0	77.1	16.6	6.4	2.73	3.57	2.05	.83	1.63	2.5	5.5	
6013	11-2	110	.0	98.4	1.0	.6	2.09	2.16	.97	1.50	19.14	2.5		
6013	11-4	115	1.0	97.4	.9	.7	1.95	1.95	1.15	.91	11.98	2.5		
6013B	15-1	110	.0	62.4	26.8	10.7	3.34	4.37	2.27	.51	.00	2.5		
6013B	16-2	12	.0	37.7	40.4	21.7	5.61	5.71	2.38	.13	.00	3.5	7.5	
6013B	18-2	21	.0	56.4	31.9	11.6	3.68	4.65	2.31	.39	.00	2.5	6.5	
6013B	22-2	88	.0	64.2	24.3	11.7	3.63	4.57	2.20	.53	.00	3.5	7.5	
6013B	26-1	145	.0	52.4	32.0	15.6	3.93	5.08	2.30	.35	.00	3.5	6.5	
6013B	28-1	110	.0	69.4	22.4	8.3	3.46	4.19	2.02	.69	.78	3.5		
6013B	31-1	140	.0	67.5	23.1	9.3	2.98	3.97	2.37	.52	.00	2.5	6.5	
6014	2-3	116	4.3	20.4	41.0	34.3	7.12	6.57	2.75	-.49	.91	3.5	7.5	
6014	2-3	139	.0	9.0	47.1	43.9	7.67	7.44	1.99	-.21	.00	3.5	8.5	
6014	6-2	85	.0	97.6	.6	1.8	2.46	2.57	1.06	2.58	30.83	2.5		
6014	7-2	85	.0	54.1	28.8	17.1	3.78	4.85	2.51	.37	.00	2.5	5.5	8.5
6014	7-4	81	.0	55.2	33.9	10.9	3.85	4.72	2.12	.50	.00	3.5		
6014	9-1	100	30.2	67.4	.8	1.5	.69	.57	1.45	2.88	35.57	-.5		
6014	10-1	120	.0	40.6	43.2	16.0	5.19	5.41	2.24	.23	.00	3.5		
6015	2-1	143	.0	65.9	25.6	8.5	2.70	3.71	2.55	.46	.00	1.5	5.5	
6015	4-1	125	.0	1.2	50.4	48.4	7.92	7.85	1.70	-.12	.00	7.5		
6015	6-1	120	.0	25.7	34.7	39.8	7.02	6.68	2.64	-.08	.00	3.5	9.5	
6016B	2-1	140	.0	95.9	1.9	2.3	2.14	2.15	1.48	1.43	11.68	2.5		
6016B	6-1	73	.0	28.0	52.3	19.8	5.20	5.76	2.15	.30	.00	3.5		
6017	1-2	75	4.0	39.5	13.2	43.2	7.08	5.63	3.78	-.13	.00	2.5	9.5	
6017	2-3	60	.0	48.6	35.2	16.1	4.54	4.59	3.07	.04	.00	1.5	7.5	
6017	5-1	136	1.4	12.8	39.3	46.3	7.77	7.15	2.65	-.54	.68	1.5	9.5	
6017	7-1	45	.0	3.4	36.8	59.7	8.47	8.11	1.78	-.39	.00	9.5		
6017	8-1	115	8.7	41.4	30.9	18.9	3.99	4.47	3.28	-.02	.00	-1.5	3.5	7.5
6017	9-1	134	5.4	44.2	32.2	18.3	4.06	4.56	3.12	.02	.00	-1.5	2.5	7.5
6018	6-2	25	.0	96.8	1.9	1.1	2.27	2.33	.99	2.37	29.60	2.5		
6019	1CC		.0	10.2	59.6	30.5	6.71	6.70	1.93	.00	.00	5.5	8.5	
6019	2-2	118	.0	6.8	69.9	23.3	6.41	6.57	1.78	.13	.00	5.5		
6019	2-3	122	.0	.0	67.6	32.5	7.04	7.16	1.67	.11	.00	5.5		
6019	3-1	140	.2	2.9	79.3	17.3	6.33	6.48	1.55	.07	.80	5.5		
6019	4-1	30	1.7	10.8	52.3	35.3	6.73	6.72	2.38	-.29	.63	5.5	8.5	
6019	5-1	81	.0	24.9	59.1	16.1	5.66	5.73	2.12	.08	.00	3.5		
6019	8-1	30	.0	59.0	19.7	12.4	2.75	3.62	3.02	.25	.00	-1.5	7.5	
6019B	1-2	118	.0	22.5	56.5	20.9	5.79	6.02	2.03	.18	.00	3.5		
6020	1-1	85	.0	11.5	32.9	55.9	8.30	7.70	2.30	-.35	.00	3.5	9.5	
6020	2-2	25	.0	12.7	31.5	55.8	8.31	7.62	2.45	-.47	.00	2.5	9.5	
6020	3-2	118	.0	1.4	42.1	56.5	8.42	8.11	1.72	-.28	.00	9.5		
6020	4-2	15	.0	28.8	31.2	40.1	7.04	6.27	3.28	-.21	.00	1.5	9.5	
6020	4-2	40	4.0	41.4	8.8	45.9	7.09	5.33	4.32	-.07	.00	.5	9.5	
6020	6-1	72	.8	9.2	42.5	47.8	7.83	7.43	2.31	-.43	.64	3.5	9.5	
6021	1-3	10	.0	5.2	45.8	48.9	7.94	7.72	1.96	-.21	.00	3.5	9.5	
6021	1-3	115	.0	24.8	46.7	28.7	6.16	6.26	2.41	.05	.00	3.5	7.5	
6021	2-2	112	.0	15.5	46.0	38.4	7.12	6.89	2.32	-.06	.00	3.5	8.5	
6021	2-3	125	.0	13.6	42.1	44.1	7.58	7.19	2.33	-.20	.00	3.5	8.5	
6021	2-4	50	.0	23.0	52.5	24.4	5.84	6.05	2.26	.10	.00	4.5	7.5	
6021C	1-2	12	.0	2.6	57.9	39.3	7.41	7.47	1.85	-.01	.00			
6021C	1-2	112	.0	21.6	43.1	35.1	6.80	6.63	2.48	-.05	.00	3.5	9.5	
6021C	3-2	115	.0	7.3	52.7	40.0	7.23	7.20	2.09	-.04	.00	5.5	9.5	
6021C	6-1	113	.0	12.4	53.8	33.8	6.98	6.91	2.13	-.07	.00	3.5		
6021C	7-1	38	.0	4.7	31.1	64.1	8.65	8.17	1.91	-.46	.00	5.5	9.5	
6021C	8-3	27	.0	7.7	57.5	34.5	7.08	7.05	1.95	-.03	.00	7.5		
6021C	9-2	25	.0	5.4	54.4	40.1	7.47	7.41	1.87	-.11	.00	3.5	7.5	

HOLE	SEC	CM	GR%	SAX	SIX	CLX	MD	MN	SD	SK	K	M1	M2	M3
6021C	10-2	127	.0	3.6	47.5	48.9	7.93	7.68	1.92	-.18	.00	9.5		
6021C	11-3	120	.0	2.7	46.8	50.4	8.03	7.75	1.86	-.19	.00	8.5		
6021C	12-3	70	.0	4.1	59.7	36.3	7.16	7.16	1.91	-.01	.00			
6021C	14-1	110	.0	11.2	60.6	28.5	6.75	6.75	1.93	.01	.00	3.5	6.5	
6021C	17-1	100	.0	7.2	55.3	37.6	7.28	7.27	1.91	-.08	.00	3.5	6.5	
6021C	21-2	100	.0	6.9	63.2	29.8	6.91	6.97	1.85	.02	.00	6.5		
6021C	26-3	75	.0	9.5	59.3	31.4	6.86	6.95	1.99	.02	.00	3.5	6.5	
6021C	29-1	100	.0	4.3	58.4	37.2	7.23	7.28	1.86	-.02	.00	6.5		
6021C	32-1	69	.0	6.4	56.0	37.6	7.30	7.27	1.91	-.08	.00	3.5		

CHAPTER III

X-RAY DIFFRACTION ANALYSES

by Lawrence J. Poppe

This section contains the relative percentages of minerals detected by X-ray diffraction.

A split from each sample was mounted and X-rayed as a randomly oriented powder. The clay fraction from each sample was separated by centrifuge and mounted as an oriented aggregate on a silver filter. Four treatments were performed on the oriented silver filter mounts: air drying, glycolation with ethylene glycol, heating to 400°C, and heating to 550°C. After each treatment, the samples were X-rayed between the angles of 2° and 40° two theta on a Philips X-ray diffractometer fitted with a graphite curved-crystal monochromator. This study used CuK α radiation, a scanning rate of 2° per minute, and a chart scale of 1000 cps full scale.

Semiquantitative estimates of the minerals present were made by comparison of peak intensities with intensities of a collection of standards. Relative percents of the clay minerals were estimated by a method described by Biscaye (1965). These semiquantitative estimates are generally considered to be accurate to within 10% of their actual values; however, the smaller values can vary considerably more than this.

In addition, a split was taken from each sample and mounted in Caedex ($n=1.56$) as a smear slide. These slides were used to check the semiquantitative diffraction techniques, to detect minerals occurring in trace amounts, or lacking X-ray diffraction effects, and to examine the biological debris.

The presence of gypsum and halite are principally due to drying of pore fluids, after coring.

Values reported in the tables as T indicate a trace of that mineral was detected. Other values are in relative percent. Blanks indicate that the mineral was not detected. Samples whose relative percents do not add up to 100 and do not have values listed for the clay minerals were X-rayed solely as randomly oriented powders.

Explanation of Headings

I/M	Illite/Mica
SMC	Smectites
I-S	Mixed layered illite-smectite
C-S	Mixed layered chlorite-smectite
KAO	Kaolinite
CHL	Chlorite
PALY	Palygorskite
SEPL	Sepiolite
VER	Vermiculite
NONS	Mixed layered nonswelling clay minerals
GLAU	Glaucite
QTZ	Quartz
CRIS	Disordered cristobalite

Explanation of Headings (cont)

FELD	Na, Ca, and K Feldspars
PYR	Pyrite
SID	Siderite
HEM	Hematite
CALC	Calcite
MCAL	Magnesium calcite
ARAG	Aragonite
D/A	Dolomite/Ankerite
APA	Apatite
BAR	Barite
GYP	Gypsum
HAL	Halite
ZEO	Zeolite
AMP	Amphibole

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD
6002	1-1	6	T	2.0			2.0					T	94.0		T	
6002	2-1	11	2.0	16.0	T		32.0						25.0		6.0	
6002	3-1	50											30.0		4.0	
6002	3-2	49	5.0		13.0		4.0		2.0			T	24.0		20.0	
6002	3-3	70	T	2.0	6.0		2.0		5.0			T	30.0		18.0	
6002	3-5	40	4.0		5.0		2.0		4.0				45.0		13.0	
6002	3-5	125			16.0		3.0		19.0				25.0		17.0	
6002	4-6	137			10.0				10.0	40.0			17.0		T	
6002	6-1	31	3.0	1.0	8.0		T		3.0	2.0		T	5.0		2.0	
6002	6-2	30	T		13.0				7.0	20.0			10.0		5.0	
6002	7-2	117			5.0		T		28.0	16.0			11.0		4.0	
6002	8-3	137			13.0				30.0	25.0			7.0		T	
6002	9-1	134											T	72.0		
6002	9-2	80	T		9.0					4.0	2.0		T	12.0	4.0	
6002	9-6	137			2.0	6.0				2.0	15.0			15.0		3.0
6002	10-2	113	6.0	1.0	5.0					18.0				7.0		15.0
6002	12-1	20	T	3.0	4.0				T	T				2.0		
6002	13-1	47	T		8.0					T				2.0		
6002	14-1	88												2.0		
6002	14-6	30	3.0	5.0	10.0	T	6.0								T	
6002	15-1	10		4.0	6.0		5.0					T		2.0		
6002	15-2	134		25.0										T		
6002	16-1	71	T	2.0	6.0		T		T	T				2.0		
6002	16-2	100	T	T	2.0									2.0		
6002	16-3	81	T	T	T									T		
6002	17-2	87	T	T	T									T		
6002	17-3	121	1.0	T	9.0		T							1.0		
6002	19-1	16			2.0									3.0		
6002	19-2	105	T	4.0	T									4.0		
6002	20-2	81												6.0		
6002	20-3	91	1.0	2.0	6.0				T					2.0		T
6002	22-1	80	1.0		1.0		2.0					T		1.0		
6002	23-2	21	2.0		2.0		2.0							4.0		
6002	23-3	85	T		T		T							1.0		
6002	24-1	111	T	T	T		T							2.0		
6002	25CC													T		
6002	27CC													2.0		
6002	28-1	129	T		4.0							T		1.0		
6002	32CC													T	28.0	
6002	33-1	72	1.0	9.0										2.0		
6004	1-2	127	T		2.0		4.0							9.0		
6004	2-2	107	T	T	2.0		5.0						5.0	5.0		
6004	3-1	132	T		2.0		2.0						T	4.0		
6004	4-3	89					T						1.0	16.0		2.0
6004	5-1	91	T		2.0		6.0							5.0		2.0
6004	5-2	137	1.0		2.0		7.0							6.0		
6004	5-4	99	T		T		3.0							3.0		
6004	6-1	61	T		1.0		3.0							6.0		1.0
6004	6-2	75	T	T	T		T							3.0		
6004	6-4	125	T		2.0		3.0							12.0		T
6004	7-1	125	T	1.0	2.0		7.0							14.0		
6004	7-3	125	T	T	2.0		7.0							15.0		2.0
6004	7-5	47	T		4.0		7.0							19.0		
6004	7-6	125	3.0	T	3.0		5.0							19.0		4.0
6004	9-1	125	T		4.0		5.0							26.0		12.0
6004	9-4	125	T	T	2.0		3.0					T		28.0		10.0
6004	10-1	121												3.0		
6004	10-3	50	T	T	2.0		3.0							2.0		T
6004	11-1	55	3.0	T	3.0		3.0					T		4.0		5.0
6004	11-4	112	T	T	2.0		2.0						3.0	7.0		10.0
6004	12-3	85												T		
6004	13-2	25		T	1.0					4.0				T		
6004	13-6	70			5.0					5.0				T		1.0
6004	14-6	5			4.0					6.0					2.0	
6004B	2-1	70			T					4.0			T		T	

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZEO	AMP
6002	1-1	6	T		T	T				T			T		
6002	2-1	11	2.0			13.0			T	T			2.0		T
6002	3-1	50				60.0			T	2.0			T		
6002	3-2	49	1.0			T			28.0	1.0			T		
6002	3-3	70				10.0			20.0	3.0		T	T		
6002	3-5	40				15.0			2.0	5.0	T		T		
6002	3-5	125	2.0			10.0				2.0	T		T		
6002	4-6	137	T						20.0	T			2.0		
6002	6-1	31	1.0			66.0			7.0	T			T		T
6002	6-2	30	1.0			23.0			14.0	6.0			T		
6002	7-2	117	2.0						26.0	4.0			2.0		
6002	8-3	137	T			20.0			T	T			2.0		
6002	9-1	134				T			15.0	10.0			T		
6002	9-2	80	T			31.0			36.0	T		T	T		T
6002	9-6	137				25.0			30.0			T			
6002	10-2	113				44.0			3.0				T		
6002	12-1	20				85.0						T		2.0	
6002	13-1	47				79.0			1.0	T			T		
6002	14-1	88				80.0			T				T		
6002	14-6	30	T			71.0			T	T			T		
6002	15-1	10				82.0			T	T			T		T
6002	15-2	134				72.0						T	T		
6002	16-1	71				85.0			T			T		2.0	
6002	16-2	100				94.0						T			
6002	16-3	81				95.0			2.0			T	T		
6002	17-2	87				95.0			2.0			T	T		
6002	17-3	121				85.0			2.0			T	T		
6002	19-1	16				85.0			5.0			T		4.0	
6002	19-2	105				75.0			10.0			T		4.0	
6002	20-2	81				86.0						T		2.0	
6002	20-3	91				85.0			T				T		2.0
6002	22-1	80				92.0			2.0				T		
6002	23-2	21				82.0			8.0			T			
6002	23-3	85				97.0			T			T			
6002	24-1	111				93.0			2.0			T			
6002	25CC					96.0			T			T	T		
6002	27CC					95.0			T			T			
6002	28-1	129				92.0						T	T		
6002	32CC					70.0			T			T			
6002	33-1	72				78.0			T			T		10.0	
6004	1-2	127				69.0	9.0	5.0						1.0	
6004	2-2	107				60.0	10.0	10.0						1.0	
6004	3-1	132				73.0	12.0	5.0						1.0	
6004	4-3	89				65.0	8.0	8.0						T	
6004	5-1	91				65.0	8.0	10.0						T	
6004	5-2	137				59.0	6.0	17.0						1.0	
6004	5-4	99				76.0	9.0	6.0						1.0	
6004	6-1	61				68.0	8.0	10.0						T	
6004	6-2	75				83.0	4.0	6.0						1.0	
6004	6-4	125				75.0	2.0	5.0						1.0	
6004	7-1	125				67.0	2.0	6.0						1.0	
6004	7-3	125				67.0	T	5.0						1.0	
6004	7-5	47	1.0			58.0		5.0	T					T	
6004	7-6	125				60.0		5.0						1.0	
6004	9-1	125				45.0		6.0	T					1.0	
6004	9-4	125				50.0		5.0	T					1.0	
6004	10-1	121				91.0		4.0	T					1.0	
6004	10-3	50				85.0		4.0						1.0	
6004	11-1	55				73.0		5.0	2.0					1.0	
6004	11-4	112				69.0		2.0	4.0					1.0	
6004	12-3	85				93.0			4.0					1.0	
6004	13-2	25				92.0			1.0	T				T	
6004	13-6	70				82.0			6.0					1.0	
6004	14-6	5				84.0			3.0					1.0	
6004B	2-1	70				92.0			T	T				1.0	

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD		
6004B	2-6	80												T				
6004B	4-1	110			10.0				25.0					2.0				
6004B	5-1	141												2.0				
6004B	5CC		14.0	8.0	9.0									11.0	10.0	T		
6004B	7-1	80	22.0	9.0	14.0								1.0	16.0	8.0	T		
6004B	7-6	65	9.0	8.0	15.0									3.0	9.0			
6004B	8-6	69	8.0	19.0	6.0									8.0	9.0	T		
6004B	10-1	135	7.0	14.0	7.0					1.0				12.0	7.0			
6004B	11-1	75								T					9.0	10.0		
6004B	12-2	70	T		4.0				2.0					3.0	8.0			
6004B	13-2	135	6.0	14.0	7.0						T			T	9.0	14.0	T	
6004B	14-2	97	16.0	20.0	14.0									18.0	11.0			
6004B	15-1	99	16.0	14.0	20.0								T	11.0	17.0	T		
6004B	16-3	93	6.0	3.0	11.0									3.0	8.0			
6004B	19-1	20												2.0	T			
6004B	19-1	83												5.0	8.0			
6004B	19-2	80	8.0	3.0	13.0										7.0	2.0		
6004B	19-6	80	2.0	T	4.0									20.0	20.0	2.0		
6004B	20-1	102	3.0	T	6.0					10.0					1.0			
6004B	20-1	133	T		2.0					7.0					3.0	T		
6005	2-1	25	T	3.0						T				T	80.0	14.0		
6005	4-2	110		7.0										T	50.0			
6005	5-1	145	20.0		20.0									T	24.0	13.0	T	
6005	6-1	140	2.0	T	2.0									10.0	43.0	T	9.0	
6005B	2-2	130													5.0			
6006	3-2	75	T	T	T										80.0	15.0		
6006	3-4	25	T	T	T										80.0	15.0		
6006	5-2	75	T	T	T										55.0	37.0		
6006	6-3	139													43.0	38.0		
6006	6-6	65	T	T	T										36.0	48.0		
6006	8CC		T	T	1.0				2.0						21.0			
6006	9CC														3.0			
6007	2-2	125	T							T	T				T	75.0	20.0	
6007	3-5	140	30.0	T	3.0					10.0	6.0					30.0	15.0	
6007	3-6	19	31.0		7.0					6.0	8.0				T	33.0	12.0	
6007	4-5	120	36.0							6.0	18.0					20.0	8.0	
6007	5-2	115	13.0	T	7.0					6.0	1.0				3.0	52.0	15.0	
6007	5-3	19	15.0	T	12.0					5.0	5.0				T	35.0	24.0	
6007	6-1	120														55.0	20.0	
6007	6-2	124	30.0	3.0	14.0					8.0	12.0					15.0	15.0	
6007	7-1	130														55.0	20.0	
6007	8-1	110	8.0	T	T					2.0						16.0	T	
6007	8-1	135	3.0	T	1.0					T					13.0	26.0	T	
6007	9-1	125	13.0	1.0	4.0					3.0	4.0					60.0	12.0	
6007	11-2	11													T	46.0	19.0	
6007	11-2	12	4.0		2.0					3.0						37.0	18.0	
6007B	1-1	130	15.0		7.0					6.0	2.0				T	58.0	7.0	
6007B	2-2	118	28.0	2.0	6.0					15.0	9.0					30.0	2.0	
6007B	2-3	105	25.0	3.0	7.0					10.0	5.0					41.0	3.0	
6007B	3-1	105														67.0	20.0	
6007B	4-3	70														27.0	2.0	
6007B	5-1	130	23.0	2.0	6.0					9.0	3.0					50.0	4.0	
6007B	6-2	55														12.0	T	
6007B	7-1	145														96.0	2.0	
6007B	8-1	140	10.0		7.0					6.0	2.0				T	54.0	16.0	
6007B	8-2	30	1.0		4.0					T	1.0					76.0	14.0	
6007B	10-1	133	20.0	2.0	8.0					14.0	2.0					32.0	1.0	
6007B	10-5	145	14.0		12.0					8.0	2.0				T	60.0	2.0	
6007B	10-6	50	17.0	1.0	8.0					13.0	4.0				T	45.0	8.0	
6007B	11-2	70	9.0	2.0	8.0					10.0					52.0	10.0	T	
6007B	11-3	86	24.0	7.0	21.0					16.0	T				T	25.0	1.0	
6007B	12-3	132	37.0	4.0	16.0					11.0	4.0				T	25.0	T	
6007B	13CC		29.0	4.0	16.0					24.0						25.0	1.0	
6007B	15-1	25	17.0	T	9.0					13.0	6.0				4.0	42.0	5.0	
6007B	18-3	79	T		T											88.0	T	

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZEQ	AMP
6004B	2-6	80				97.0							1.0		
6004B	4-1	110				53.0			9.0	T			1.0		
6004B	5-1	141				10.0			65.0				1.0		
6004B	5CC					46.0			T				T	1.0	
6004B	7-1	80				27.0			2.0	T			T	2.0	
6004B	7-6	65				46.0			T				T	T	
6004B	8-6	69				47.0			T				T	T	
6004B	10-1	135				49.0			2.0				T	T	
6004B	11-1	75				50.0							T		
6004B	12-2	70				69.0	6.0	6.0					1.0		
6004B	13-2	135				46.0							1.0		
6004B	14-2	97				20.0							T	T	
6004B	15-1	99				21.0							T	T	
6004B	16-3	93				66.0							T	T	
6004B	19-1	20				92.0							T	T	
6004B	19-1	83				85.0							T	T	
6004B	19-2	80				60.0							T		
6004B	19-6	80				47.0							T		T
6004B	20-1	102				75.0			2.0	T			T		
6004B	20-1	133				86.0							T		
6005	2-1	25				T				T			1.0		T
6005	4-2	110				30.0							T		T
6005	5-1	145	2.0			20.0				T			T		
6005	6-1	140				23.0			10.0				T		
6005B	2-2	130	T			89.0	T						T		
6006	3-2	75	T			2.0	1.0						1.0		T
6006	3-4	25				1.0	T						1.0	1.0	
6006	5-2	75	T			2.0			2.0				T	2.0	
6006	6-3	139	1.0	T		5.0	3.0						T	2.0	
6006	6-6	65	T			5.0			2.0				T	2.0	
6006	8CC					73.0			2.0				T		
6006	9CC					95.0			T				T		
6007	2-2	125				T			T				T	T	T
6007	3-5	140	T	1.0									T		T
6007	3-6	19	T	1.0									T	T	
6007	4-5	120				8.0			4.0				T		
6007	5-2	115	1.0										T		
6007	5-3	19	1.0							T			T		T
6007	6-1	120	1.0										T	T	
6007	6-2	124	T	T		1.0	T						T		T
6007	7-1	130	T				T	T					T		1.0
6007	8-1	110				73.0							T		
6007	8-1	135	T			55.0							T		
6007	9-1	125	2.0	1.0			T						T		
6007	11-2	11	1.0				T		10.0				T		
6007	11-2	12	T				T			34.0					
6007B	1-1	130	1.0	2.0			T						T		1.0
6007B	2-2	118	2.0	2.0		3.0							T	T	
6007B	2-3	105	1.0	T									T	T	T
6007B	3-1	105	T							T			T	T	1.0
6007B	4-3	70	2.0										T		T
6007B	5-1	130	1.0	T									T		
6007B	6-2	55				67.0									
6007B	7-1	145											1.0		
6007B	8-1	140	T	1.0					T				1.0		T
6007B	8-2	30	T				T						1.0	1.0	
6007B	10-1	133	3.0	3.0			T					4.0	1.0	1.0	
6007B	10-5	145	1.0	2.0									T		
6007B	10-6	50	T	1.0									T		T
6007B	11-2	70	T	5.0									T		
6007B	11-3	86	T	3.0									T		
6007B	12-3	132	T	1.0									T	T	
6007B	13CC		T	T									1.0	T	
6007B	15-1	25	1.0	T									1.0	T	T
6007B	18-3	79				10.0								1.0	

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD
6008	1-2	123	23.0	1.0	7.0		5.0	5.0				T	40.0		18.0	
6008	1-3	99	27.0		1.0		6.0	8.0				T	22.0		33.0	
6008	1-4	125	34.0	T	6.0		6.0	3.0					24.0		25.0	
6008	2-1	150	25.0		5.0		7.0	15.0					30.0		15.0	
6008	3-1	136	17.0	2.0	6.0		15.0				3.0		50.0		2.0	
6008	3-2	11	19.0		5.0		13.0	16.0					33.0		10.0	
6008	4-2	105	13.0	T	17.0		8.0				3.0		50.0		3.0	
6008	5-1	125	T	T	T		T				T		87.0		9.0	
6008	6-1	115	10.0	2.0	5.0		8.0	T			T		67.0		5.0	
6008	8-1	130											78.0		8.0	
6008	9-1	127											39.0		5.0	
6008	9-1	143											68.0		10.0	
6008	9-2	54	16.0	T	9.0		14.0	3.0			5.0		48.0		2.0	
6008	10-1	115	4.0	T	T		4.0	T			1.0		83.0		3.0	
6008	10CC		8.0		3.0		8.0	4.0					30.0		2.0	
6008	11-2	90											70.0		16.0	
6008	12-2	25	1.0	T	T		1.0	T					83.0		12.0	
6008	12-2	129											88.0		8.0	
6008	13-1	50	4.0	T	2.0		2.0	T			T		83.0		5.0	
6008	13-1	125	T	T	T		T	T			T		87.0		4.0	
6008	13-2	120	T	T	T		T	T			T		90.0		5.0	
6009	1-1	135	21.0		2.0	T	T	14.0			T		36.0		12.0	
6009	3-2	146	26.0		5.0	T	6.0	13.0			T		13.0		32.0	
6009	3-3	50	27.0		3.0		T	15.0					20.0		24.0	
6009	6-1	7	20.0		4.0		6.0	14.0					22.0		20.0	
6009B	1-1	81	24.0				T	8.0			T		40.0		18.0	
6009B	2-1	125	T	T	T		T	T					65.0		30.0	
6009B	3-1	147	20.0	T	2.0		2.0	9.0					44.0		15.0	
6009B	4-1	115	21.0	T	5.0		7.0	8.0					14.0		20.0	
6009B	5-1	9	28.0	T	5.0	T	10.0	11.0					13.0		26.0	
6009B	6CC		7.0		T		5.0	3.0					75.0		8.0	
6009B	8-2	9	11.0		4.0		20.0	10.0			T		30.0		12.0	
6009B	8-3	115	26.0	T	3.0		31.0	T			T		28.0		6.0	
6009B	9-1	120											62.0			
6009B	9-2	65	24.0					24.0	12.0				30.0		8.0	
6009B	10-2	105	22.0		19.0		12.0	12.0					32.0		1.0	
6009B	11-1	105	14.0	4.0	12.0		13.0	2.0					43.0		7.0	
6009B	12-4	17	27.0	T	5.0	T	29.0	7.0					21.0		8.0	
6009B	14-1	129	19.0	T	6.0		12.0	25.0			T		29.0		4.0	
6009B	14-4	97	23.0	T	2.0		27.0	7.0			T		23.0		3.0	
6009B	15-3	61											25.0		2.0	
6009B	16-1	120	T	T	T		T				T		15.0	79.0	1.0	
6009B	19-1	91	T		T		T				T		84.0		8.0	
6009B	20-1	130	14.0	2.0	6.0		11.0	3.0			T		50.0		10.0	
6009B	21-2	61									T		33.0		6.0	
6009B	21-3	12	17.0		11.0		19.0	8.0			T		36.0		6.0	
6009B	23-1	110	4.0	1.0	1.0		3.0	T			T		80.0		7.0	
6009B	23-2	70	T		5.0		5.0	1.0			T		78.0		6.0	
6009B	24-1	120											65.0		1.0	
6009B	24-1	145	30.0	T	3.0		30.0				T		32.0		T	
6009B	27-1	40	12.0		17.0		20.0						50.0		1.0	
6009B	27-1	135	13.0		9.0		32.0						45.0		1.0	
6009B	27-2	129	15.0		4.0		23.0						55.0		3.0	
6009B	28-2	41	12.0	T	4.0		15.0						60.0		4.0	
6009B	30-2	51	14.0	T	6.0		31.0						40.0		4.0	
6009B	31-1	100	1.0	4.0			3.0						80.0		7.0	
6009B	32-1	122											89.0		2.0	
6010	1-2	119	18.0		3.0	T	5.0	13.0					18.0		14.0	
6010	2-2	119	23.0	T	6.0		3.0	7.0					18.0		12.0	
6010	3-2	105	21.0		7.0		3.0	8.0					17.0		13.0	
6010	4-1	140	25.0	T	T		4.0	9.0			T		24.0		16.0	
6010	4-2	105	14.0	T	3.0		2.0	7.0					18.0		21.0	
6010	5-1	85	21.0	T	10.0		3.0	11.0					17.0		25.0	
6010	6-2	15	15.0	T	3.0		3.0	8.0					25.0		24.0	
6010	6-2	19	21.0	T	2.0		2.0	5.0					19.0		26.0	

HOLE	SEC	CN	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZE0	AMP
6008	1-2	123	T										1.0	1.0	
6008	1-3	99	T						T				T	1.0	
6008	1-4	125	T										1.0	1.0	
6008	2-1	150											T	T	
6008	3-1	136	2.0	T								T		T	
6008	3-2	11	2.0	T									T	T	T
6008	4-2	105	3.0									T			
6008	5-1	125	1.0	1.0											T
6008	6-1	115	1.0	1.0											1.0
6008	8-1	130	2.0									T			
6008	9-1	127	1.0	T								T	T		
6008	9-1	143	1.0				1.0					T	T		
6008	9-2	54	T	1.0										T	
6008	10-1	115	1.0										2.0		
6008	10CC		1.0					41.0				T	T	T	T
6008	11-2	90	T	T			6.0						T		1.0
6008	12-2	25	T				T						1.0		T
6008	12-2	129	1.0										T		
6008	13-1	50	T										1.0		
6008	13-1	125	2.0				T	4.0					T		
6008	13-2	120	T										2.0		
6009	1-1	135					3.0					2.0	T	T	
6009	3-2	146	1.0				2.0					T	T		1.0
6009	3-3	50	2.0	T			3.0					2.0	T		T
6009	6-1	7	T				3.0					8.0	1.0		T
6009B	1-1	81					2.0					4.0		T	2.0
6009B	2-1	125					1.0					T		T	1.0
6009B	3-1	147	1.0				3.0					1.0		1.0	2.0
6009B	4-1	115	T				15.0					4.0		T	2.0
6009B	5-1	9	1.0	T			2.0					T		T	1.0
6009B	6CC						3.0								T
6009B	8-2	9					3.0						T		T
6009B	8-3	115					4.0							T	
6009B	9-1	120					T					13.0		T	
6009B	9-2	65					2.0						T	T	T
6009B	10-2	105	T	2.0								T		T	
6009B	11-1	105	T	T			T					T		T	
6009B	12-4	17	1.0	T									T		T
6009B	14-1	129	2.0											T	T
6009B	14-4	97					14.0						T		T
6009B	15-3	61	2.0										T		
6009B	16-1	120	T											1.0	
6009B	19-1	91	T	2.0								2.0		T	
6009B	20-1	130	3.0												
6009B	21-2	61	3.0									T		T	
6009B	21-3	12	2.0	T											
6009B	23-1	110	T									3.0			
6009B	23-2	70										3.0	T		
6009B	24-1	120										10.0		T	
6009B	24-1	145	2.0											T	
6009B	27-1	40	T	1.0										T	
6009B	27-1	135	T												T
6009B	27-2	129	1.0												
6009B	28-2	41	2.0											T	T
6009B	30-2	51	4.0												T
6009B	31-1	100	T	2.0			T						2.0		
6009B	32-1	122	T				T							T	
6010	1-2	119	T				15.0					12.0		T	
6010	2-2	119					18.0					10.0		T	T
6010	3-2	105	T				20.0					10.0		T	
6010	4-1	140	T	T			12.0					6.0		T	
6010	4-2	105					21.0					12.0		T	
6010	5-1	85	1.0				6.0					4.0		T	1.0
6010	6-2		T				14.0					5.0		T	1.0
6010	6-2	19					16.0					6.0		T	1.0

ROLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD	
6010	7-2	105	T	T	T		T	T					T	63.0	30.0		
6010	7-3	120	33.0		2.0		6.0	14.0						20.0	22.0		
6010	7-4	125	11.0	T	5.0		4.0	13.0						21.0	24.0		
6010	8-1	100	13.0		7.0		3.0	8.0						25.0	24.0		
6010	8-2	29	21.0		2.0		5.0	12.0						22.0	27.0		
6010	9-1	136											5.0	81.0	12.0		
6010	9-2	85	25.0	T	6.0		T	11.0						22.0	26.0		
6010	9-3	47	28.0		3.0		T	15.0						30.0	21.0		
6010	10-1	132	28.0	T	2.0		5.0	12.0					T	30.0	19.0		
6010	11-2	75	T	T	T		T	T					3.0	73.0	16.0		
6010	12-1	130											T	63.0	33.0		
6010	12-2	47												34.0	13.0		
6010	12-3	54	T	T	T		T	T						9.0	4.0		
6010	13-2	111	21.0	T	5.0		20.0	8.0					T	T	33.0		
6010	14-3	92	20.0	T	2.0		21.0	10.0						31.0	11.0		
6010	14-6	90	18.0		2.0		31.0	2.0					T	30.0	10.0		
6010	16-1	120	14.0		3.0		23.0	11.0						30.0	8.0		
6010	16-2	90	19.0		9.0		30.0	13.0						29.0	3.0		
6010	17-1	140	4.0		2.0		8.0	T						58.0	23.0		
6010	18-1	90	17.0		3.0		25.0	10.0					T	29.0	8.0		
6010	19-1	50	17.0		6.0		18.0	6.0					T	36.0	7.0		
6010	20-3	120	24.0		9.0		20.0	11.0					T	26.0	7.0		
6010	20-4	30	22.0	T	5.0		35.0						T	27.0	7.0		
6010	20-6	56	22.0	T	2.0		23.0							1.0	44.0	5.0	
6010	21-2	100	19.0	T	7.0		30.0							1.0	30.0	8.0	
6010	22-5	135											T	21.0	2.0		
6010	22-6	60											3.0	31.0	5.0		
6010	25-1	100	16.0	1.0	7.0		21.0						T	45.0	8.0		
6010	26-2	100	17.0	T	13.0		29.0	T					T	21.0	T		
6010	27-1	75	1.0		T		2.0						20.0	70.0	2.0		
6010	27-1	105	13.0		5.0		11.0							15.0	55.0	4.0	
6010	27-1	130	12.0	5.0	7.0		18.0						T	50.0	4.0		
6010	30CC													40.0	2.0		
6011	1-1	100	35.0	T	9.0	T	4.0	7.0					T	23.0	18.0		
6011	4-1	140											T	94.0	2.0		
6011	7-1	123	18.0		4.0		18.0	8.0						50.0	T		
6011	8-1	75	19.0	T	10.0		28.0							38.0	2.0		
6011	8-2	20	28.0	T	4.0	T	43.0	T						13.0	7.0		
6011	8-3	75	17.0	4.0	13.0		26.0							35.0	T		
6011	8-4	47	16.0	T	18.0		35.0	T						25.0	2.0		
6011	8-5	75	3.0	20.0	12.0		32.0							28.0	T		
6011	9-1	125	14.0	12.0	4.0		24.0							42.0	T		
6011	10-1	140												98.0			
6011	11-1	20	17.0	T	14.0		29.0						T	37.0	1.0		
6011	11-2	75	16.0	T	6.0		28.0							45.0	T		
6011	11-4	100	22.0	T	22.0		26.0								25.0	T	
6011	11-5	129	16.0		12.0		35.0	14.0					T	15.0	T		
6011	12-1	125	3.0	T	7.0	T	4.0	2.0					T	56.0	21.0		
6011	13-1	130	14.0	4.0	5.0		14.0	7.0						46.0	T		
6011	13-3	15	6.0	6.0	7.0		13.0							55.0	7.0		
6011	13-4	100	10.0	12.0	14.0		11.0							43.0	7.0		
6011	13-6	60	15.0	2.0	9.0		13.0	9.0						40.0	6.0		
6011	14-2	75	5.0		6.0	T	13.0							64.0	5.0		
6011	14-3	98	10.0	9.0	20.0		14.0	2.0						38.0	4.0		
6011	15-2	44	14.0	2.0	6.0		33.0	T						34.0	7.0		
6011	16-2	28	9.0	3.0	4.0		9.0	T						63.0	7.0		
6011	16-2	115	T	T	T		T	T						90.0	6.0		
6011	17-2	110												95.0	4.0		
6011	20-1	110												96.0	3.0		
6011	20-1	140					80.0						T	6.0	T		
6011	21-1	135	T	T	T		T	T					1.0	92.0	3.0		
6011	22-1	140	7.0	T	5.0		13.0	4.0	2.0				2.0	53.0	4.0		
6011	23-1	130	1.0	T	T		T	T	T				40.0	51.0	T		
6011	26-2	70	1.0	T	1.0		T	T	T				20.0	72.0	T		
6011	28-6	69	5.0	22.0	T		5.0		T				25.0	30.0	8.0		

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZE0	AMP
6010	7-2	105	T			T			T				T		1.0
6010	7-3	120	T			T			T				T		1.0
6010	7-4	125	T			15.0			5.0				T		1.0
6010	8-1	100				13.0	T		4.0				T		1.0
6010	8-2	29				8.0		T	2.0	T			T		
6010	9-1	136	T				T	T	T				T		
6010	9-2	85	1.0			6.0	1.0		T				T		
6010	9-3	47				T			1.0				T		T
6010	10-1	132	T			T			1.0				T		T
6010	11-2	75	T			T			1.0				T		T
6010	12-1	130				T			T				T		T
6010	12-2	47	2.0										T		T
6010	12-3	54			85.0		T		T				T		T
6010	13-2	111	3.0			7.0							T		T
6010	14-3	92				8.0							T		
6010	14-6	90				7.0							T		T
6010	16-1	120				9.0	T						T		T
6010	16-2	90	T			4.0							T		T
6010	17-1	140	1.0			2.0	T		T	T			T		1.0
6010	18-1	90	T			6.0							T		1.0
6010	19-1	50				8.0									1.0
6010	20-3	120				2.0							T		T
6010	20-4	30				3.0							T		T
6010	20-6	56	T			1.0							T		T
6010	21-2	100				4.0							T		T
6010	22-5	135				10.0							T		
6010	22-6	60				3.0	T						T		
6010	25-1	100				2.0									
6010	26-2	100	5.0			13.0									
6010	27-1	75	T			T							T		
6010	27-1	105	1.0			T									
6010	27-1	130	1.0			2.0							1.0		
6010	30CC					3.0							T		
6011	1-1	100	T										T		T
6011	4-1	140	T										T		
6011	7-1	123	1.0										T		
6011	8-1	75	1.0			T							T		
6011	8-2	20	2.0			T							1.0	T	
6011	8-3	75	4.0											T	
6011	8-4	47	3.0												
6011	8-5	75	4.0												
6011	9-1	125	3.0												
6011	10-1	140	T												
6011	11-1	20	2.0										T		T
6011	11-2	75	3.0										1.0		
6011	11-4	100	3.0										T		T
6011	11-5	129	4.0	T											
6011	12-1	125	4.0	T			T						T		
6011	13-1	130	4.0										4.0		
6011	13-3	15	4.0	T		T									T
6011	13-4	100	2.0			T									T
6011	13-6	60	5.0										1.0		
6011	14-2	75	1.0										4.0		
6011	14-3	98	2.0	T									2.0		T
6011	15-2	44	2.0												
6011	16-2	28	3.0										2.0		
6011	16-2	115	T												T
6011	17-2	110													T
6011	20-1	110													T
6011	20-1	140	T		12.0										T
6011	21-1	135	T										T		T
6011	22-1	140	3.0	T		T							2.0	T	3.0
6011	23-1	130	1.0										T		T
6011	26-2	70	1.0			T							2.0		
6011	28-6	69	3.0			2.0									

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD	
6012	1-2	40	12.0	T	4.0		3.0	5.0					1.0	45.0	23.0		
6012	1-2	142	26.0	T	6.0		11.0	20.0					T	22.0	12.0		
6012	1-4	24	24.0	T	5.0		7.0	12.0					1.0	30.0	18.0		
6012	1-5	95	27.0		9.0		4.0	9.0					T	28.0	22.0		
6012	2-6	75	28.0		10.0		5.0	14.0					T	22.0	19.0		
6012	3-2	95	30.0	T	7.0		7.0	13.0					T	23.0	19.0		
6012	3-4	105	32.0	T	9.0		5.0	11.0					T	21.0	20.0		
6012	3-6	85	23.0	1.0	7.0		6.0	9.0					T	32.0	20.0		
6012	4-2	144	23.0	T	2.0		8.0	13.0					1.0	31.0	19.0		
6012	4-3	63	25.0	T	1.0		7.0	14.0					T	35.0	15.0		
6012	4-3	109	16.0	T	10.0		5.0	10.0					T	40.0	15.0		
6012	5-1	61	30.0	T	5.0		10.0	15.0					T	25.0	12.0		
6012	5-4	105	26.0	T	9.0		6.0	19.0					T	28.0	15.0		
6012	6-1	105	23.0	T	7.0		6.0	12.0					1.0	27.0	20.0		
6012	7-1	81	29.0	T	7.0		7.0	12.0					T	28.0	14.0		
6012	8-2	105	23.0	T	15.0		14.0	11.0					1.0	22.0	13.0		
6012	9-2	115												35.0	11.0		
6012	11-2	95	31.0	T	4.0	T	11.0	15.0						24.0	13.0		
6012	11-3	70	27.0	T	7.0		14.0	13.0						T	25.0	11.0	
6012	11-4	100	22.0	T	7.0		12.0	10.0						T	30.0	15.0	
6012	12-6	50	15.0	2.0	6.0		8.0	5.0						T	48.0	16.0	
6012	13-2	34													30.0	10.0	
6012	18-4	124	35.0	3.0	9.0		6.0	11.0						T	20.0	14.0	
6012	25-4	50	22.0		17.0		6.0	11.0						T	26.0	16.0	
6012	26-2	20													25.0	10.0	
6012	28-2	50	12.0	T	4.0		3.0	5.0						T	24.0	26.0	
6012	29-4	100	28.0	2.0	8.0		6.0	13.0						T	30.0	11.0	
6012	30-1	130	29.0	T	5.0		17.0	18.0						T	20.0	9.0	
6012	30-3	120	16.0		11.0		20.0	10.0						T	32.0	9.0	
6012	30-4	70	16.0	6.0	10.0		14.0	7.0						T	38.0	8.0	
6012	33-2	100	16.0	T	3.0		7.0	6.0						23.0	38.0	6.0	
6012	33-2	113												T	29.0	6.0	
6012	33-4	35	22.0	T	6.0		18.0	9.0						T	30.0	12.0	
6012	33-4	97	5.0		2.0		1.0	2.0						30.0	25.0	12.0	
6013	3-1	143	1.0	3.0			1.0							T	84.0	9.0	
6013	4-1	135	19.0		8.0		7.0	13.0						T	40.0	7.0	
6013	4-1	150												T	29.0	8.0	
6013	4-2	52	21.0		6.0		17.0	14.0						1.0	50.0	14.0	
6013	5-2	2	9.0		4.0		7.0	9.0						T	32.0	15.0	
6013	5-2	48	21.0		5.0		9.0	12.0									
6013	6-2	125	24.0		T		7.0	4.0						2.0	45.0	12.0	
6013	6-3	85	15.0		2.0		5.0	6.0						2.0	49.0	12.0	
6013	7-3	75	20.0		4.0		13.0	15.0						T	37.0	6.0	
6013	7-5	35	13.0		8.0		13.0	7.0						T	45.0	8.0	
6013	7-6	138												T	50.0	7.0	
6013	8-1	66	20.0	T	7.0		16.0	16.0						T	35.0	3.0	
6013	8-2	138	8.0	T	2.0		3.0	5.0						T	60.0	11.0	
6013	9-2	70												T	77.0	15.0	
6013	11-2	110	1.0	T	T		T	T						1.0	81.0	15.0	
6013B	13-1		25.0		4.0		12.0	6.0						T	41.0	9.0	
6013B	14-1	140													45.0	10.0	
6013B	15-1	110	13.0		6.0		8.0	5.0							49.0	16.0	
6013B	16-2	12	17.0		7.0		13.0	4.0						T	38.0	9.0	
6013B	16-3	107	12.0	T	10.0		10.0	17.0						T	25.0	8.0	
6013B	18-2	21	16.0	T	6.0		8.0	14.0						1.0	28.0	8.0	
6013B	19-2	58	14.0		4.0		6.0	7.0						T	12.0	3.0	
6013B	19-2	130												2.0	42.0	6.0	
6013B	22-2	88	11.0		5.0		3.0	8.0						2.0	45.0	9.0	
6013B	26-1	145	10.0		8.0		5.0	8.0						2.0	37.0	15.0	
6013B	28-1	110	11.0	T	7.0		5.0	6.0						1.0	36.0	8.0	
6013B	31-1	140	10.0	9.0	2.0		3.0	6.0						2.0	48.0	7.0	
6014	2-2	144													82.0	2.0	
6014	2-3	116	23.0		4.0		11.0	12.0						T	37.0	10.0	
6014	2-3	139	25.0		6.0		3.0	11.0						T	20.0	14.0	
6014	3-1	145												2.0	86.0	8.0	

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZE0	AMP
6012	1-2	40	T			6.0						T	T		
6012	1-2	142				T						T	T		T
6012	1-4	24	T								T		T		T
6012	1-5	95							1.0				T		
6012	2-6	75	T									1.0			T
6012	3-2	95	T	T									1.0		
6012	3-4	105	T	T									1.0		T
6012	3-6	85	T	T									1.0		T
6012	4-2	144	T	T									T		TT
6012	4-3	63	T	T			T					T		T	T
6012	4-3	109	T	T			T						1.0		T
6012	5-1	61			T		T					T	T		T
6012	5-4	105			T		T					T	T		T
6012	6-1	105			T		T					T	T		T
6012	7-1	81			T							T			
6012	8-2	105	T	T									T		T
6012	9-2	115	T	T			T						T	T	
6012	11-2	95	T	T									T		
6012	11-3	70	T	T			T						T		
6012	11-4	100	T	T			2.0					T			T
6012	12-6	50	T	T									T		T
6012	13-2	34	T										T		T
6012	18-4	124	T	T							T		T		T
6012	25-4	50	T	T									T		T
6012	26-2	20					T						T		T
6012	28-2	50	1.0			22.0				1.0			T		T
6012	29-4	100	T	T		1.0				T					T
6012	30-1	130	T	T			T						T		
6012	30-3	120	T	T			T						T		T
6012	30-4	70	T	T			T						T		T
6012	33-2	100	T	T	T		T						T		
6012	33-2	113	T	T			T						T		T
6012	33-4	35	T				T						T		
6012	33-4	97	1.0			21.0							T		T
6013	3-1	143				T							1.0		
6013	4-1	135											T		
6013	4-1	150	T	3.0			T								
6013	4-2	52	T	3.0			T						T	1.0	
6013	5-2	2	1.0	1.0		2.0							1.0		T
6013	5-2	48	1.0	2.0		T							1.0	T	
6013	6-2	125	1.0	3.0		1.0					T		T	1.0	
6013	6-3	85	2.0	2.0		2.0								1.0	
6013	7-3	75		4.0		T							T		
6013	7-5	35		5.0		T							T		
6013	7-6	138		4.0		T							T		
6013	8-1	66	T	T		T				T			T	T	
6013	8-2	138	1.0	1.0		8.0								1.0	
6013	9-2	70	T			2.0				T					
6013	11-2	110				T								T	
6013B	13-1		T	T		T							T	T	
6013B	14-1	140	T	T		T							T	T	
6013B	15-1	110	T			1.0							1.0	T	
6013B	16-2	12	1.0	1.0		8.0							T	T	
6013B	16-3	107	1.0	2.0		13.0							T		
6013B	18-2	21	2.0	1.0		15.0							T		
6013B	19-2	58	T	T		42.0			10.0				T		
6013B	19-2	130	1.0	T		15.0							T		
6013B	22-2	88	1.0	1.0		14.0							1.0	T	
6013B	26-1	145	1.0			16.0				T			T	T	
6013B	28-1	110	1.0	1.0		23.0							T	T	
6013B	31-1	140	1.0	1.0		9.0							T	T	
6014	2-2	144	T			3.0							T	T	
6014	2-3	116	T			1.0							T	T	
6014	2-3	139	1.0			17.0	2.0						T		
6014	3-1	145				T							T	T	

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD
6014	4-3	60	5.0	3.0	2.0		4.0	4.0				1.0	59.0		18.0	
6014	4-4	140											51.0		30.0	
6014	6-2	85	T	4.0			T					1.0	78.0		15.0	
6014	7-1	90	8.0	T	2.0		17.0	3.0				T	65.0		3.0	
6014	7-2	85	12.0		3.0		21.0	4.0				T	50.0		3.0	
6014	7-5	52	13.0	T	3.0	T	18.0	9.0				1.0	25.0		18.0	
6014	8-1	67	19.0		5.0		21.0	11.0				T	30.0		8.0	
6014	9-1	100											90.0		6.0	
6014	10-1	120	10.0		4.0		13.0	11.0				2.0	48.0		8.0	
6015	2-1	143	17.0	T	T		T	6.0				1.0	61.0		11.0	
6015	3-1	138											35.0		10.0	
6015	4-1	125	31.0	T	3.0		24.0	13.0				1.0	21.0		4.0	
6015	4-2	42	22.0		10.0		36.0	9.0				1.0	14.0		6.0	
6015	6-1	120	11.0	T	6.0		20.0	9.0				1.0	40.0		10.0	
6016B	2-1	140	T	6.0			2.0					2.0	78.0		11.0	
6016B	6-1	75	11.0		3.0		3.0	13.0				1.0	61.0		6.0	
6017	1-1	120	27.0		6.0		6.0	13.0				T	30.0		16.0	
6017	1-2	15	17.0	T	6.0		9.0	11.0				T	39.0		16.0	
6017	1-2	75	12.0		3.0		12.0	13.0				T	42.0		17.0	
6017	2-2	49	24.0	1.0	7.0		6.0	6.0				4.0	35.0		14.0	
6017	2-3	60	16.0	3.0	6.0		12.0	11.0				2.0	32.0		16.0	
6017	4-2	32	21.0	T	7.0		10.0	20.0				1.0	28.0		10.0	
6017	4-3	40											30.0		7.0	
6017	5-1	136	21.0	1.0	4.0		9.0	19.0				T	27.0		18.0	
6017	6-1	110	21.0		4.0		12.0	18.0				T	28.0		12.0	
6017	6-2	123	24.0	T	6.0		11.0	16.0				T	24.0		17.0	
6017	7-1	45	23.0		2.0		9.0	17.0					33.0		14.0	
6017	8-1	145	13.0	4.0	7.0		8.0	9.0				1.0	46.0		11.0	
6018	4-1	134	9.0	3.0	7.0							3.0	49.0		14.0	
6018	4-1	144											81.0		6.0	
6018	6-2	25	2.0	1.0	T		1.0	T				T	83.0		10.0	
6019	1-1	150	24.0		3.0		1.0	12.0				T	46.0		10.0	
6019	1-2	40	28.0		2.0		5.0	11.0				T	35.0		12.0	
6019	2-2	118	20.0		3.0		1.0	11.0				T	50.0		12.0	
6019	2-3	122	21.0		6.0		1.0	14.0				T	41.0		13.0	
6019	3-1	140	19.0		7.0		4.0	10.0				T	44.0		12.0	
6019	3-2	23	27.0	T	7.0	T	4.0	11.0				T	36.0		12.0	
6019	4-1	30	22.0		3.0		4.0	11.0				T	45.0		12.0	
6019	5-1	81	14.0	T	7.0		7.0	11.0				T	44.0		15.0	
6019	6CC												33.0		8.0	
6019	7-1	104	9.0		1.0								3.0			
6019	8-1	30	3.0	T	1.0							5.0	4.0			
6019B	1-2	118	20.0		2.0		2.0	8.0				1.0	43.0		17.0	
6020	1-1	85	29.0		4.0		4.0	8.0				T	31.0		16.0	
6020	1-1	119	27.0		2.0		3.0	9.0				T	36.0		16.0	
6020	2-1	80											64.0		18.0	
6020	2-2	25	22.0	T	5.0		3.0	10.0				T	37.0		20.0	
6020	3-2	118	29.0	T	3.0		4.0	8.0				T	21.0		29.0	
6020	4-2	15	32.0		5.0		T	14.0					19.0		22.0	
6020	4-2	40	26.0	T	7.0		6.0	14.0					21.0		21.0	
6020	5-1	141											25.0		24.0	
6020	6-1	72	18.0	T	5.0		9.0	5.0					49.0		6.0	
6021	1-2	65	32.0		2.0		2.0	14.0					24.0		13.0	
6021	1-3	10	28.0		3.0	2.0	3.0	15.0				T	23.0		15.0	
6021	1-3	115	21.0	T	2.0		5.0	7.0				T	32.0		25.0	
6021	2-3	125	26.0	T	2.0		2.0	9.0				T	31.0		21.0	
6021	2-4	50	22.0		4.0		5.0	11.0				T	31.0		18.0	
6021C	1-2	12	31.0		2.0		3.0	9.0					28.0		14.0	
6021C	1-2	112	23.0	T	2.0		3.0	7.0				T	35.0		18.0	
6021C	2-2	112	22.0		6.0		3.0	11.0				T	31.0		19.0	
6021C	3-2	115	23.0		9.0		6.0	12.0					32.0		14.0	
6021C	4-1	138	27.0		4.0		6.0	9.0				T	30.0		14.0	
6021C	6-1	113	18.0		5.0		6.0	10.0				T	36.0		14.0	
6021C	7-1	38	23.0	T	4.0		3.0	11.0				T	41.0		14.0	
6021C	8-2	33	27.0		3.0		16.0	13.0				T	25.0		13.0	

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZEO	AMP
6014	4-3	60	T			T			T			1.0	T		
6014	4-4	140	2.0			T			T				T		
6014	6-2	85	T			T			T				T		
6014	7-1	90	1.0						T			T	T		
6014	7-2	85	2.0	3.0		T							1.0		
6014	7-5	52	T				4.0			2.0		T	T		
6014	8-1	67	1.0	2.0			T					T	1.0		T
6014	9-1	100	1.0				2.0					T			
6014	10-1	120	2.0		T							T			
6015	2-1	143	1.0	T			1.0					T			T
6015	3-1	138	2.0				2.0					T			
6015	4-1	125	1.0				T					T			
6015	4-2	42	1.0	T								T			T
6015	6-1	120	T	T								T	T		
6016B	2-1	140									1.0	T			
6016B	6-1	75	2.0									T			
6017	1-1	120		T			T					T	T		
6017	1-2	15		T			T					T	T		T
6017	1-2	75	T	T			T					T	T		T
6017	2-2	49	1.0	T								T	T		T
6017	2-3	60	T				1.0					T			T
6017	4-2	32	T	T			T					T	T		T
6017	4-3	40	T				T					T	T		T
6017	5-1	136	T	T			T					T	T		T
6017	6-1	110	T	1.0			1.0					1.0	T		
6017	6-2	123	T	T			1.0					T			
6017	7-1	45	T	T			1.0								
6017	8-1	145	1.0	T			3.0					T	T		T
6017	9-1	134	T	T			5.0								
6018	4-1	144					T				4.0	T	T		T
6018	6-2	25	T				T					T	T		T
6019	1-1	150	1.0		T		T						2.0		1.0
6019	1-2	40	T	T			3.0					T			T
6019	2-2	118	1.0				1.0						2.0		T
6019	2-3	122	1.0				T						2.0		T
6019	3-1	140	1.0				T						2.0		1.0
6019	3-2	23	T	T			T						T		
6019	4-1	30	T				1.0						1.0		T
6019	5-1	81	T				T						T		
6019	6CC		T				T						T		T
6019	7-1	104					86.0						T		T
6019	8-1	30					85.0						T		
6019B	1-2	118	1.0				3.0						2.0		T
6020	1-1	85	T	T			6.0						T		T
6020	1-1	119	T	T			5.0						T		T
6020	2-1	80					17.0						T		T
6020	2-2	25	T				T						T		1.0
6020	3-2	118	T				4.0						T		1.0
6020	4-2	15	T				6.0						T		1.0
6020	4-2	40	T				2.0						T		1.0
6020	5-1	141	T				2.0						T		1.0
6020	6-1	72	2.0	5.0									T		T
6021	1-2	65	T				8.0			3.0			T		T
6021	1-3	10		T			7.0			3.0			T		T
6021	1-3	115		T			3.0			3.0			T		T
6021	2-3	125		T			4.0			3.0			T		T
6021	2-4	50		T			5.0			3.0			T		T
6021C	1-2	12	T	T			7.0			4.0			T		T
6021C	1-2	112	T	T			4.0			6.0			T		T
6021C	2-2	112	T	T			3.0			3.0			T		1.0
6021C	3-2	115	T	T			2.0			3.0			T		T
6021C	4-1	138	T	T			2.0			3.0			T		T
6021C	6-1	113	T	T			3.0			6.0			T		1.0
6021C	7-1	38	T	T			1.0			1.0			T		T
6021C	8-2	33	T	T			T			1.0			T		T

HOLE	SEC	CM	I/M	SMC	I-S	C-S	KAO	CHL	PALY	SEPL	VER	NONS	GLAU	QTZ	CRIS	FELD
6021C	8-3	27	21.0		2.0		13.0	12.0					T	32.0		18.0
6021C	9-2	25	24.0	T	4.0		18.0	12.0					T	26.0		15.0
6021C	9-3	45	27.0		2.0		15.0	10.0					T	29.0		15.0
6021C	10-2	127	33.0	T	3.0		10.0	10.0					T	26.0		15.0
6021C	11-1	105											T	36.0		12.0
6021C	11-3	120	19.0		1.0			T	6.0				T	35.0		15.0
6021C	12-3	70	24.0		1.0			T	8.0				T	33.0		14.0
6021C	14-1	110	31.0		3.0		3.0	9.0					T	27.0		18.0
6021C	15-1	144												15.0		15.0
6021C	17-1	100	37.0	T	2.0		5.0	10.0					T	30.0		14.0
6021C	21-2	100	26.0		2.0		3.0	10.0					T	41.0		16.0
6021C	23-1	130												25.0		15.0
6021C	26-3	75	19.0		2.0			T	6.0				T	37.0		23.0
6021C	29-1	100	25.0		2.0		1.0	9.0					T	32.0		14.0
6021C	29-2	64												30.0		12.0
6021C	30-2	25	29.0		4.0		7.0	9.0					1.0	25.0		18.0
6021C	32-1	69	23.0		2.0			T	7.0				1.0	25.0		16.0

HOLE	SEC	CM	PYR	SID	HEM	CALC	MCAL	ARAG	D/A	APA	BAR	GYP	HAL	ZE0	AMP
6021C	8-3	27		T		T			T				T		T
6021C	9-2	25	T	T		T			T				T		T
6021C	9-3	45	T	T		T			1.0				T		T
6021C	10-2	127	T	T		T			1.0				T		T
6021C	11-1	105		T		7.0			8.0			T	T		T
6021C	11-3	120	T	T		8.0			12.0				T		1.0
6021C	12-3	70	T	T		10.0			8.0				T		T
6021C	14-1	110	T	T		T			7.0				T		T
6021C	15-1	144	T	T		T			T				T		T
6021C	17-1	100	T	T		1.0			T				T		T
6021C	21-2	100		T		1.0			T				T		T
6021C	23-1	130	T		T	3.0			T				T		T
6021C	26-3	75	T	T		6.0			4.0				T		T
6021C	29-1	100	T	T		4.0			5.0				T		T
6021C	29-2	64		T		4.0			2.0				T		T
6021C	30-2	25	T			4.0			2.0				T		T
6021C	32-1	69		T		13.0			10.0				T		T

CHAPTER IV

CHEMICAL ANALYSES (MAJOR ELEMENTS)

by Judith A. Commeau and Frank T. Manheim

Major elemental determinations were divided into two general groups: Concentrations of SiO₂, TiO₂, Al₂O₃, Fe₂O₃ (total), CaO, MgO, K₂O, P₂O₅, and MnO₂ (total) were determined by X-ray fluorescence in Woods Hole, Mass.; preliminary fusion with lithium borate according to the method of Rose and others (1963). A Diano XRD 8000 unit was used to analyze pressed pulverized beads, along with synthetic and natural rock standards. Additionally, concentrations of FeO, H₂O+, H₂O-, total S, Cl, and F were determined by standard methods in the Reston, Va., analytical laboratories of the U.S. Geological Survey by N. Skinner, Z.A. Hamlin, and J. Reid under the leadership of F. Brown. Na₂O and MgO analyses were performed by E. Campbell and P. Aruscavage under the leadership of F. O. Simon. F. J. Flanagan served as liaison among the user and analytical groups. The X-ray fluorescence measurements for Na₂O and MgO were corrected by a constant factor, based in part on Reston's analyses of duplicate samples. For the many sediment samples containing sulfide sulfur, the ferrous iron (FeO) results may be questionable. All values are in weight percents.

Explanation of Headings

UCM	Upper limit of sample interval (cm)
LCM	Lower limit of sample interval (cm)
SiO ₂	Silicon oxide
TiO ₂	Titanium oxide
Al ₂ O ₃	Aluminum oxide
Fe ₂ O ₃ T	Iron oxide (total)
FeO	Iron oxide
CaO	Calcium oxide
MgO	Magnesium oxide
K ₂ O	Potassium oxide
Na ₂ O _T	Sodium oxide (total)
CORG	Organic carbon

Explanation of Headings (cont.)

C1 Chlorine
F Fluorine
S Sulfur (total)
 P_2O_5 Phosphate
 H_2O^- Water of adsorption
 H_2O^+ Water of crystallization
IGL Ignition Loss
 MnO_2 Manganese oxide

HOLE	CORE	SEC	UCM	LCM	SIO2	TIO2	AL203	FE203T	FEO	CAO	MGO	K20
6002	1	1	4.	8.	78.37	.32	2.15	.77		4.15	.25	.37
6002	1	1	0.	20.	84.23	.19	1.56	.48	.20	4.12	.27	.37
6002	2	1	6.	9.	67.71	.59	8.65	2.88	.45	5.45	.79	
6002	3	1	10.	40.	64.41	.00	1.20	.52	.20	18.40	.73	.28
6002	4	1	48.	50.	48.39	.23	7.65	2.91	1.70	7.37	6.20	1.29
6002	4	6	125.	150.	42.50	.28	6.65	2.78		9.63		1.12
6002	5	1	0.	20.	51.79	.55	8.59	3.39	1.30	6.37	5.70	1.34
6002	6	1	10.	13.	58.16	.52	10.72	3.62		7.20		1.23
6002	6	1	30.	32.	28.42	.34	5.89			28.23	3.90	.93
6002	7	2	50.	70.	13.83	.34	2.48	.62	.40	36.55	2.10	.30
6002	8	1	20.	40.	39.51	.39	7.39	2.79		9.70		1.11
6002	9	2	80.	81.	25.75	.09	3.31	.92	.60	22.72	9.00	.65
6002	9	6	125.	150.	31.94	.15	4.97	1.23		23.35		.91
6002	10	2	20.	40.	35.78	.38	6.21	1.54	.50	22.57	4.50	1.04
6002	11	1	0.	5.	37.98	.10	5.03	1.30	.50	22.58	3.40	.85
6002	12	2	40.	60.	18.29	.28	5.62	1.61	.50	35.60	1.40	.64
6002	13	1	45.	49.	20.95	.26	6.81	2.09	.40	34.42	1.60	.84
6002	15	1	8.	12.	16.24	.11	4.80	1.34	.60	38.09	1.20	.63
6002	16	2	32.	53.	16.36	.08	3.06	.97	.70	40.54	.84	.55
6002	16	2	83.		14.80	.09	2.31	.83	.30	43.15	.65	.36
6002	16	3	44.	98.	6.05	.03	2.34	.35	.20	47.60		.23
6002	17	3	120.	122.	7.49	.01	1.99	.75	.27	41.80	1.41	.46
6002	17	3	130.	150.	9.50	.20	2.71	1.02	.20	41.75	1.50	.56
6002	19	1	15.	18.	10.61	.22	2.51	.52	1.40	44.33	1.30	.42
6002	20	3	40.	45.	19.35	.39	3.57	.85	1.30	37.04	1.20	.81
6002	22	1	40.	60.	5.23	.00	1.51	.45	.40	46.01	1.10	.17
6002	22	1	80.		2.85	.00	.44	.24		45.43		.10
6002	23	2	11.	32.	7.59	.18	1.60	.47	.30	46.20	1.30	.18
6002	24	1	50.	55.							1.10	
6002	24	1	110.	112.	6.39	.03	1.86	.54	.18	47.20	1.16	.17
6002	27	CC			9.62	.15	1.54	.56	.30	44.98	.98	.42
6002	33	1	7.	27.	18.61	.00	1.71	1.65	.20	37.66	1.30	.49
6002	33	1	80.	95.	32.81	.11	6.05	.67	.80	25.67	3.40	1.23
6002	6	1	10.	13.	58.16	.52	10.72	3.62		7.20		1.23
6004	1	1	120.	140.	25.07	.11	3.70	2.17	1.10	31.87	1.70	.73
6004	1	2	115.	140.	20.60	.06	2.07	1.65		33.10		.57
6004	3	1	95.	111.	22.75	.23	2.37	1.52		34.58		.59
6004	5	1	.85.	97.	20.25	.18	2.04	.92		36.11		.56
6004	5	2	125.	150.	14.49	.05	2.27	.99		35.87		.52
6004	6	1	50.	73.	12.83	.21	2.73	.73	.40	40.71	.99	.37
6004	7	1	100.	150.	20.50	.32	3.05	1.19		33.11		.57
6004	7	4	30.	50.	28.27	.18	4.41	1.22	1.10	31.27	1.40	.84
6004	9	1	53.	63.	30.27	.20	3.91	1.34		29.80		.87
6004	9	1	100.	150.	18.87	.08	2.38	1.02		34.16		.62
6004	10	3	71.	90.	14.53	.09	3.87	1.16	1.30	37.95	.91	.51
6004	11	4	75.	150.	19.63	.04	2.14	1.16		33.89		.67
6004	12	1	40.	55.	26.72	.19	2.65	1.65		30.90		.85
6004	13	2	20.	30.	8.03	.04	2.38	.64		40.58		.25
6004	14	2	50.	67.	4.65	.00	1.80	.61		44.65		.15
6004	14	6	0.	10.	12.59	.00	2.43	1.10		36.20		.45
6004	14	6	33.	60.	12.86	.19	3.10	.83	.40	38.16	2.00	.41
6004B	2	1	30.	50.	7.49	.12	2.14	.53	.30	43.27	1.10	.21
6004B	2	1	69.	71.	4.73	.00	.74	.50	.10	42.94	.97	
6004B	2	6	0.	12.	5.53	.00	1.68	.41		43.62	.16	
6004B	4	1	110.		22.32	.11	3.84	1.84	.56	25.64	5.42	.60
6004B	5	1	112.	121.	23.51	.28	4.00	1.10	.90	23.30	9.40	.49
6004B	5	1	130.	134.	21.07	.35	3.62	.76		29.68		.43
6004B	6	2	30.	50.	46.28	.14	4.79	2.13	.90	18.57	1.20	1.08
6004B	7	1	80.		52.36	.48	6.48	2.39	.42	17.13	1.62	1.34
6004B	7	6	0.	10.	49.72	.19	5.61	1.83		18.53		1.10
6004B	11	1	45.	63.	45.79	.13	5.25	2.15	1.10	17.77	1.30	1.15
6004B	12	2	70.		34.01	.24	2.57	2.03		27.31		.76
6004B	14	2	97.	98.	40.14	.40	5.96	2.14		15.97		1.12
6004B	15	1	45.	74.	44.77	.11	5.33	1.97	1.20	18.81	1.20	1.21
6004B	19	1	40.	52.	37.26	.26	7.09	1.93		23.51		1.64

HOLE	CORE	SEC	NA2OT	CORG	CL	F	S	P205	H20-	H20+	IGL	MNO2
6002	1	1		.16				.13			5.29	.008
6002	1	1	.30		.20	.024	.02	.18	.10	1.20	5.85	.009
6002	2	1	1.60		1.31	.120	.80	.99	1.60	3.80	8.42	.040
6002	3	1	.55			.170	.25	1.85	.36	1.40	14.54	.008
6002	4	1	3.30		2.82	.350	1.50	2.34	8.60	10.9	24.33	.020
6002	4	6		5.50					1.50		26.39	.030
6002	5	1	3.00				1.10	.81	6.20	8.40	24.22	.030
6002	6	1							1.57			.030
6002	6	1	1.70					7.04	3.80	5.10	24.32	.013
6002	7	2	2.00		1.23	1.400	1.40	23.35	1.90	5.00	14.78	.000
6002	8	1							.99		28.17	.014
6002	9	2	1.40		.56	.210	.48	1.05	2.10	3.50	32.13	.004
6002	9	6		1.37					3.37			.013
6002	10	2	2.40		1.38	.330	.88	2.15	3.10	4.10	25.01	.010
6002	11	1	2.40		1.80	.490	.94	5.06	2.60	4.10	20.86	.010
6002	12	1	1.50		1.11	.800	.65	.28	1.80	3.10	34.84	.050
6002	13	1	1.20		1.78	.084	.94	.25	1.70	4.30	32.79	.002
6002	15	1	1.10		.75	.730	.57	.31	1.70	2.80	35.21	.000
6002	16	2	.68		.54	.084	.44	.60	.92	2.10	35.63	.000
6002	16	2	.30		.11	.077	.28	.68	.50	1.40	36.57	.000
6002	16	3			.27	.043	.18	.26	.52	1.40	41.44	.000
6002	17	3	.85	.66	.71	.100		.59	.95	1.59	37.73	.020
6002	17	3	.66		.38	.220	.44	1.83	1.10	1.90		.030
6002	19	1	.68		.59	.033	.29	.19	.52	1.40		.000
6002	20	3	.87		.35	.050	.22	.15	.98	3.00	34.83	.003
6002	22	1	.43		.55	.050	.15	.15	.38	1.00	41.66	.000
6002	22	1		.18					.14	.11	42.25	.000
6002	23	2	.74		1.34	.024	.14	.16	.42	1.10	41.53	.000
6002	24	1	.49		.85	.210	.17	.17	.38	1.00	42.21	.000
6002	24	1	.66	.52	.84	.040		.25	.44	1.18		.001
6002	27	CC	.71		.66	.018	.28	.14	.44	1.40	39.98	.000
6002	33	1	.82	.34	.69	.056	.22	.11	.84	2.00	35.44	.000
6002	33	1	1.80		.68	.400	.18	.09	3.36	4.30	27.16	.000
6002	6	1							1.57			.030
6004	1	1	1.40		1.03	.048	.31	.19	1.20	2.60	31.90	.006
6004	1	2		.25					.18		33.31	.000
6004	3	1							.16		33.20	.002
6004	5	1							.16		35.51	.000
6004	5	2		.36					.15		36.59	.000
6004	6	1	1.10		.88	.043	.26	.18	.64	2.00	38.58	.000
6004	7	1		.46					.19		33.97	.001
6004	7	4	1.80		.93	.051	.33	.17	.90	2.00	29.87	.002
6004	9	1		.45					.17		29.05	.007
6004	9	1							.18		33.53	.002
6004	10	3	1.10		.96	.056	.42	.29	1.20	2.50	37.03	.001
6004	11	4		.70					1.66		32.92	.000
6004	12	1							2.53			.005
6004	13	2							.92		45.84	.001
6004	14	2							.35		43.91	.000
6004	14	6							.61			.008
6004	14	6	1.60		1.76	.140	.40	.66	2.20	2.20	38.68	.003
6004B	2	1	1.10		1.42	.140	.31	.78	1.40	1.90	40.83	.001
6004B	2	1	1.24	.35	1.54	.180		1.27	.90	1.68		.001
6004B	2	6						.57		42.0	46.00	.004
6004B	4	1	1.53	.98	1.42	.460		4.25	4.61	4.55		.001
6004B	5	1	1.40		1.25	.360	.76	1.97	3.40	4.10	33.72	.003
6004B	5	1							2.60		33.03	.004
6004B	6	2	1.40		1.11	.048	.57	.14	2.30	3.10	20.97	.010
6004B	7	1	1.22	.37	.78	.060		.10	2.94	1.03	30.94	.020
6004B	7	6							.12		21.72	.008
6004B	11	1	1.80		.63	.670	.31	.13	2.80	3.10	21.09	.010
6004B	12	2		.70				.33			28.95	.010
6004B	14	2		.25				.07			21.37	.008
6004B	15	1	1.20		.61	.048	.27	.15	2.70	2.70	22.71	.008
6004B	19	1						.17			25.70	.010

HOLE	CORE	SEC	UCM	LCM	SIO2	TIO2	AL203	FE203T	FEO	CAO	MGO	K2O
6004B	19	6	80.		32.60	.36	6.07	5.63	.77	22.40	.97	1.82
6004B	20	1	86.	114.	20.64	.30	4.10	4.53	1.70	30.59	.97	1.60
6005	2	1	50.	70.	84.71	.49	4.52	.73	.30	.68	.17	1.34
6005	4	2	80.	85.	82.92	.47	4.30	.63	.30	2.39	.19	1.01
6005	5	1	145.		64.39	.55	6.97	3.18	.68	9.77	.76	1.64
6005B	2	2	10.	30.	76.75	.35	4.78	.65	.60	4.74	.36	1.09
6005B	2	2	20.	40.	86.74	.09	3.10	.47	1.20	1.42	.16	1.25
6005B	2	2	140.		24.78	.01	2.98	.88		37.73		.53
6006	6	6	20.	40.	69.30	.00	3.12	.87	.70	13.88	.76	.64
6006	6	6	56.	58.	57.94	.06	5.66	1.98	2.00	21.69	1.20	1.29
6006	6	6	65.		62.48	.31	10.78	3.14		7.63		2.13
6007	1	1	1.		79.30	.40	5.73	1.72	2.90	1.81	1.64	1.50
6007	2	2	115.	119.	78.41	.46	6.50	1.66	2.00	1.88	.72	1.57
6007	2	2	124.	126.	74.22	.52	6.57	1.72		2.04		1.56
6007	5	1	30.	45.	63.71	.55	11.13	5.68	3.20	1.31	1.60	2.46
6007	5	2	90.	140.	75.38	.64	12.54	5.31		1.18		2.56
6007	9	1	100.	150.	75.27	.74	10.53	5.84		.94		2.25
6007	10	1	115.	142.	76.89	.50	4.86	2.87	1.20	1.76	.83	1.43
6007B	1	1	117.	122.	70.69	.59	10.74	4.46	2.60	1.08	1.40	2.24
6007B	1	1	129.	131.	66.68	1.06	10.06	4.17		.44		2.05
6007B	2	2	120.	140.	62.01	.63	8.82	3.50	2.70	7.76	1.20	1.75
6007B	4	2	55.	58.	74.05	.73	9.93	4.16	2.00	.49	1.10	2.23
6007B	5	1	129.	131.	60.13	.89	10.96	4.64		.34		2.05
6007B	7	1	2.	2.	88.23	.31	1.83	1.91	1.60	.75	.24	.52
6007B	8	1	140.		81.79	.38	4.06	3.30	2.30	.63	.56	1.40
6007B	10	1	133.		67.02	.76	6.67	4.02		.46		1.27
6007B	10	5	140.	150.	69.89	1.11	8.66	3.53		.32		1.71
6007B	10	6	40.	60.	76.11	.72	8.50	3.06	1.80	.34	.79	
6007B	11	2	10.	30.	59.47	.57	7.84	13.23	7.50	.31	1.90	3.40
6007B	13	CC			68.74	.56	10.71	4.08	2.00	.82	1.40	1.72
6007B	15	1	25.		67.57	.91	11.80	4.25		.39		2.11
6008	1	2	45.	65.	66.38	.43	10.08	4.20	3.80	1.47	1.80	2.15
6008	1	2	98.	148.	67.80	.63	6.71	3.18		1.15		1.57
6008	3	1	136.	137.	62.23	1.17	10.38	4.53		.37		2.19
6008	5	1	80.	100.	86.32	.55	2.94	.61	.80	.67	.11	.72
6008	5	1	100.	150.	85.54	.44	1.66	.63		.58		.47
6008	10	CC			54.53	.24	3.73	2.01	.90	17.17	.37	.58
6008	12	2	0.	50.	86.81	.69	2.65	1.07		.41		.75
6009	1	1	132.	137.	55.52	.41	7.62	2.90	3.30	13.39	1.70	1.93
6009	3	3	40.	60.	58.97	.54	12.93	5.70	6.30	23.83	2.70	2.86
6009	6	1	7.		70.37	.28	6.09	3.16	2.40	5.02	2.50	1.37
6000	9	1	80.	110.	74.90	.00	2.07	.57	.00	10.60	.10	.15
6009B	1	1	64.	94.	54.77	.76	11.55	5.83		4.47		3.00
6009B	1	1	108.	116.	63.95	.42	10.63	4.82		4.45		2.77
6009B	4	1	90.	140.	46.40	.62	12.05	6.23		5.66		2.95
6009B	8	3	90.	140.	49.25	.94	16.83	8.46		.76		2.50
6009B	10	2	80.	130.	45.09	.82	13.14	13.64		.97		2.45
6009B	11	1	140.	150.	62.21	.63	14.91	6.47	6.70	.52	1.50	2.65
6009B	12	1	70.	90.	59.04	.81	14.92	6.37	4.90	.59	1.60	2.44
6009B	14	1	118.	140.	74.61	.81	9.80	3.87	2.20	.57	.94	1.65
6009B	14	4	96.	98.	53.99	1.15	16.00	8.05		.79		2.18
6009B	16	1	120.		88.50	.43	1.52	1.35		.12		.32
6009B	19	1	90.	92.	89.07	.89	2.22	.55		.12		.36
6009B	21	3	10.	15.	75.27	.65	11.48	4.18	2.20	.34	1.20	2.04
6009B	23	1	110.		85.35	.52	3.00	.91		.18		.50
6009B	23	2	40.	100.	92.51	.47	2.51	.48	.30	.16	.10	.33
6009B	27	1	40.		63.92	.98	10.03	8.82		.40		1.53
6009B	27	1	50.	70.	72.83	.66	10.50	6.22	10.3	.31	.73	1.65
6009B	27	2	20.	25.	83.82	1.00	15.96	3.30	1.30	.17	.62	1.74
6009B	31	1	100.		86.91	.41	1.57	.76		1.54		.37
6009B	31	1	110.	112.	87.70	.18	1.73	.56	.50	2.38	.10	.39
6009B	31	2	40.	70.	87.14	.10	1.17	.43	.30	3.05	.10	.28
6010	2	2	94.	144.	42.19	.62	11.26	5.46		9.47		3.31
6010	3	2	10.	30.	41.80	.43	11.08	5.23	6.60	9.43	5.00	3.36
6010	7	4	100.	150.	51.41	.44	12.61	4.81		8.22		2.65

HOLE	CORE	SEC	NA20T	CORG	CL	F	S	P205	H20-	H20+	IGL	MNO2	
6004B	19	6	1.00	.57	.60	.110		.63	1.69	2.28		.010	
6004B	20	1	.96		.70	.290	1.20	2.66	1.30	2.50	25.88	.006	
6005	2	1	.71		.47	.010	.11	.04	.18	.84	.86	.020	
6005	4	2	.58		.44	.010	.15	.08	.22	.82	2.36	.020	
6005	5	1	1.17	.95	.61	.080		.42	2.68	2.66	13.95	.015	
6005B	2	2	1.30		.56	.010	.02	.06	.24	.73	4.48	.010	
6005B	2	2	.66		.54	.004	.08	.04	.26	1.20	1.72	.010	
6005B	2	2						.26			32.57	.020	
6006	6	6	.87		.46	.022	.21	.14	.34	.94	12.09	.020	
6006	6	6	2.00		.62	.029	.50	.14	.98	2.00	20.88	.020	
6006	6	6		.24				.12				.050	
6007	1	1	1.80		.48	.014	.01	.06	.36	.63	2.12	.030	
6007	2	2	2.00		.48	.018	.12	.09	.28	1.10	2.26	.030	
6007	2	2		.08				.07				.030	
6007	5	1	2.00		.66	.039	2.20	.09	1.50	4.10		.040	
6007	5	2		.59				.10			6.34	.040	
6007	9	1		.46				.08				.040	
6007	10	1	.95		.43	.017	.88	.14	.94	1.20	4.19	.020	
6007B	1	1	1.30		.73	.033	1.30	.15	1.90	3.50	6.67	.030	
6007B	1	1		.41				.06				.030	
6007B	2	2	1.80		1.55	.029	.96	.16	1.60	2.90	10.85	.020	
6007B	4	2	1.40		.62	.026	1.20	.13	2.00	3.30	6.61	.030	
6007B	5	1		.65				.09				.030	
6007B	7	1	.48		.39	.004	.09	.20	.36	.64	1.48	.020	
6007B	8	1	.87		.46	.012	.19	.13	.58	1.20	2.30	.020	
6007B	10	1						.05			8.67	.020	
6007B	10	5						.05			5.31	.030	
6007B	10	6	1.10		.44	.023	.60	.11	.74	2.90	4.37	.020	
6007B	11	2	1.10		.38	.025	.64	.12	2.20	4.10	8.00	.030	
6007B	13	CC	1.20		.69	.025	.92	.08	1.90	3.90	7.62	.030	
6007B	15	1						.09			7.88	.030	
6008	1	2	2.10		.54	.036	.40	.11	.92	.88	4.91	.050	
6008	1	2		.30				.06			4.16	.040	
6008	3	1		.48				.04				.030	
6008	5	1	.40		.36	.002	.12	.05	.08	.96	1.06	.010	
6008	5	1		.08				.00			.85	.020	
6008	10	CC	3.00		.25	.009	.64	.16	.66	1.80	15.14	.010	
6008	12	2		.09				.00			.89	.020	
6009	1	1	1.60		.32	.029	.26	.14	.58	2.30	13.99	.040	
6009	3	3	2.80		.48	.022	1.00	.17	1.10	3.20	6.16	.070	
6009	6	1	.87		.34	.041	.50	.28	.60	2.20	7.51	.050	
6000	9	1	2.30		.30	.013	.36	.20	.18	.90	8.33	.005	
6009B	1	1		.59				.12			9.35	.090	
6009B	1	1						.15			787.0	.070	
6009B	4	1		.51				.15				.090	
6009B	8	3		.46				.13			10.86	.070	
6009B	10	2		.73				.19				.110	
6009B	11	1	.91		.20	.039	.82	.14	1.10	5.70	8.59	.050	
6009B	12	1	.97		.34	.039	1.20	.17	1.60	6.50	10.17	.040	
6009B	14	1	.86		.34	.038	1.00	.15	1.00	4.10	6.34	.030	
6009B	14	4		.63				.22				.040	
6009B	16	1		.07				.05				.010	
6009B	19	1		.04				.03				.010	
6009B	21	3	.84		.19	.043	1.60	.06	2.00	4.10	7.84	.030	
6009B	23	1		.05				.02				.020	
6009B	23	2	.25		.44	.002	.16	.02	.14	.70	1.08	.010	
6009B	27	1		.07				.02				.070	
6009B	27	1	.62		.28	.028	.04	.03	.84	4.10	6.54	.050	
6009B	27	2	.67		.32	.034	.10	.12	1.40	4.40	5.76	.020	
6009B	31	1		.02				.01				.97	.010
6009B	31	1	.35			.001	.15	.02	.18	.56		.010	
6009B	31	2	.35		.50	.002	.11	.02	.18	.52	2.67	.010	
6010	2	2		.44				.17				.070	
6010	3	2	2.30		.75	.072	.14	.20	1.40	3.30	14.95	.070	
6010	7	4		.26				.16			11.06	.070	

HOLE	CORE	SEC	UCM	LCM	SIO2	TI02	AL203	FE203T	FEO	CAO	MGO	K20
6010	9	2	60.	110.	59.74	.52	11.63	5.08		5.11		2.48
6010	11	1	4.		82.59	.66	5.20	2.27	2.20	1.24	.62	1.17
6010	13	2	110.	113.	38.95	.55	11.10	5.90		.70		2.02
6010	16	2	90.		42.52	.74	15.72	6.49		.39		2.53
6010	20	5	35.	65.	62.23	.74	13.69	6.17	7.70	.84	1.60	2.88
6010	21	2	100.		58.36	.67	15.31	5.92		1.64		2.63
6010	22	6	100.	120.	63.79	.67	9.05	9.98	7.60	.93	1.70	3.18
6010	25	1	100.		58.05	.84	18.16	4.39		.29		2.61
6010	26	2	10.	30.	53.74	.80	16.28	7.92	9.00	.45		2.65
6010	26	2	52.	70.	58.73	.96	17.09	6.15	8.00	.38	1.50	2.64
6010	27	1	77.	82.	60.34	.91	13.85	6.52	6.40	.47	1.50	2.44
6010	27	1	115.	120.	65.74	.68	12.54	5.63	3.80	.54	1.40	2.13
6010	27	1	130.		61.40	.71	12.27	5.71		.61		2.03
6011	1	1	86.	100.	53.36	.62	14.72	8.21	9.00	1.60	2.80	3.25
6011	1	1	100.	148.	52.80	.72	16.07	8.51		1.49		3.28
6011	2	1	1.	1.	98.71	.02	1.29	.46	.10	.13	.05	.18
6011	7	1	123.	124.	64.76	1.14	15.38	2.86		.25		1.99
6011	8	4	40.	55.	58.21	.64	14.16	6.44	2.50	.43	1.10	1.91
6011	11	2	50.	100.	61.48	.90	12.70	4.24		.48		1.47
6011	13	1	130.		58.73	.90	11.78	4.21		.88		1.63
6011	14	2	25.	50.	67.87	.80	9.90	3.70	1.50	.72	.98	1.56
6011	15	2	42.	46.	61.55	.71	10.42	4.58	1.60	.99	.92	1.52
6011	16	1	90.	95.	88.30	.90	3.34	.97	.90	.23	.10	.68
6011	16	2	90.	140.	70.59	.93	6.61	2.94		.87		1.28
6011	17	2	140.		93.25	.64	2.11	.92	.80	.29	.06	.32
6011	20	1	110.	134.	87.50	.93	3.07	1.23	.90	1.10	.11	.49
6011	20	1	140.		57.57	.88	19.05	5.84		.77		.44
6011	22	1	140.		70.17	1.26	6.08	2.22		2.20		1.27
6011	23	1	144.	148.	73.39	.47	3.59	8.60	2.70	1.54	.96	2.23
6011	26	2	70.		85.46	.18	1.12	3.52		1.64		.90
6011	28	4	45.	70.	58.27	.63	9.24	6.67	2.60	4.14	1.30	2.25
6011	28	6	68.	70.	63.69	.85	13.52	6.20		2.98		2.09
6012	1	5	70.	120.	55.01	.66	16.60	6.63		1.01		3.38
6012	3	4	10.	30.	55.19	.72	16.33	6.32	7.00	.99	2.10	3.32
6012	3	4	80.	130.	51.76	.96	14.91	6.28	2.84	.92	2.25	3.03
6012	8	2	80.	130.	48.26	.67	15.59	7.34		.84		2.96
6012	12	6	25.	50.	58.30	.69	13.64	6.26	5.50	.85	1.30	2.85
6012	18	4	124.		51.47	.49	12.65	6.16		2.15		3.03
6012	33	4	76.	80.	63.03	.46	11.94	5.31	4.10	1.60	1.60	2.72
6012	33	4	96.		43.65	.22	4.18	.11		3.85		3.02
6012	33	4	100.	120.	58.86	.33	7.83	9.73	4.40	4.23	2.30	3.69
6013	4	1	120.	150.	70.43	.71	16.12	5.58	2.82	.78	1.85	2.70
6013	4	1	96.	113.	67.18	.48	10.05	3.59	4.30	.87	1.40	2.28
6013	7	3	50.	100.	55.62	.82	16.90	6.38	4.04	.58	1.91	2.73
6013	11	4	90.	140.	85.30	.32	1.86	.95		1.08		.56
6013B	13	1	115.	140.	71.89	.35	7.77	3.33	2.70	.95	.98	2.04
6013B	15	1	110.		74.36	.50	6.92	3.03		2.16		1.76
6013B	16	3	95.	120.	63.35	.47	8.96	4.21	4.70	2.52	1.30	2.07
6013B	18	2	20.	22.	68.78	.44	7.66	2.89		2.80		1.81
6013B	26	1	145.	146.	68.54	.52	7.26	3.09	1.09	2.90	.79	1.82
6013B	28	2	30.	50.	73.07	.33	5.54	2.42	2.10	2.58	.71	1.80
6013B	31	1	140.		81.03	.30	4.18	7.96		1.20		1.20
6014	2	2	65.	90.	86.04	.12	1.73	.65	1.10	2.46	.11	.24
6014	2	3	116.		49.16	.72	15.24	6.44		1.36		2.97
6014	6	2	60.	110.	86.27	.41	2.54	.78		.52		.85
6014	7	2	48.	98.	67.48	.60	8.03	4.01	1.64	.59	.93	1.69
6014	7	2	125.	130.	68.48	.74	8.37	3.70	3.50	.47	.94	1.71
6014	7	5	40.	65.	68.78	.64	8.34	3.16	2.50	.77	.83	1.88
6014	10	1	120.		67.47	.69	10.63	4.23		.51		2.08
6015	2	1	143.		79.90	.42	5.58	2.68		1.99		1.28
6015	6	1	95.	145.	69.58	.55	10.57	3.98	1.51	1.09	1.34	2.24
6016B	2	1	85.	150.	89.32	.56	3.07	1.15	1.20	.48	.19	.79
6016B	6	1	50.	100.	71.97	.67	10.07	4.25		.54		12.0
6017	1	2	50.	100.	71.34	.49	11.22	3.91	1.75	1.02	1.16	2.26
6017	5	1	95.	115.	55.68	.56	15.26	6.28	6.90	1.59	1.90	2.90

HOLE	CORE	SEC	NA2OT	CORG	CL	F	S	P205	H2O-	H2O+	IGL	MNO2	
6010	9	2		.27				.14				.070	
6010	11	1	1.20		.30	.013	.11	.09	.30	.96	1.88	.040	
6010	13	2		.30				.09				.060	
6010	16	2		.33				.11				.050	
6010	20	5	1.70		.37	.059	.39	.14	1.40	3.20	7.34	.050	
6010	21	2		.44				.20				.050	
6010	22	6	.86		.21	.045	.44	.15	1.30	3.70	6.95	.040	
6010	25	1		.78				.06				.050	
6010	26	2			.25	.059	1.60	.09	1.20	6.40	11.42	.040	
6010	26	2	1.10		.28	.059	.80	.08	2.00	5.30	10.01	.040	
6010	27	1	1.10		.54	.055	.72	.10	2.40	5.20	9.60	.040	
6010	27	1	1.10		.48	.046	1.40	.06	2.40	4.80	9.18	.030	
6010	27	1		.80				.06				.030	
6011	1	1	3.00		.81	.100	.84	.17	3.20	4.70	8.34	.090	
6011	1	1						.19			1.79	.080	
6011	2	1	.16		.12	.003	.16	.01	.08	.68	.10	.010	
6011	7	1						.04			10.87	.030	
6011	8	4	.66		.16	.056	3.20	.19	2.50	6.00	13.64	.030	
6011	11	2		.53				.06				.020	
6011	13	1			.36	.002	.26	.15	.18	.84		15.74	.030
6011	14	2	.64		.13	.041		.10	2.40	5.20		.020	
6011	15	2	.55		.16	.050	3.10	.11	3.00	6.40	14.09	.020	
6011	16	1	.53		.50			.26				.030	
6011	16	2						.25			7.05	.030	
6011	17	2	.25				.001	.26	.07	.12	.70	.88	.020
6011	20	1	.29		.22	.005	.20	.04	.12	.94		.030	
6011	20	1						.05			1.49	.040	
6011	22	1						.07			5.58	.030	
6011	23	1	.39		.24	.038	1.10	.30	1.20	2.20	4.59	.030	
6011	26	2		.05				.08			2.67	.010	
6011	28	4	.76		.16	.051	2.50	.19	2.30	4.40	10.52	.020	
6011	28	6		1.82				.14				.030	
6012	1	5		.37				.14				.080	
6012	3	4	2.30		.66	.067	.25	.13	1.20	4.60	15.57	.090	
6012	3	4	2.20	.50	.82	.080		.13	1.48	3.91		.080	
6012	8	2		.80				.14				.998	
6012	12	6	1.80		.63	.054	.64	.14	1.40	5.10	7.50	.060	
6012	18	4		.43				.09				.865	
6012	33	4	1.40		.51	.044	.24	.07	1.50	4.00	9.23	.050	
6012	33	4		.25				.07			9.10	.020	
6012	33	4	1.30		.38	.067	.39	.22	1.90	4.10	8.54	.040	
6013	4	1	1.22	.29	.56	.050		.10	1.24	4.11		.070	
6013	4	1	1.20		.49	.036	.54	.16	1.10	3.50	5.48	.040	
6013	7	3	1.24	.41	.59	.060		.11	1.59	6.19		.050	
6013	11	4		.08				.04			7.76	.030	
6013B	13	1	1.20		.66	.020	.45	.08	.94	2.50	5.16	.030	
6013B	15	1						.05				.030	
6013B	16	3	1.50		.89	.022	.84	.08				.030	
6013B	18	2		.61				.06				.020	
6013B	26	1	1.34	.70	.67	.030		.08	.75	2.38		.020	
6013B	28	2	1.10		.65	.018	.62	.06	.82	2.30	5.40	.020	
6013B	31	1		.27				.03				.030	
6014	2	2	.25		.31	.021	.13	.05	.18	.72	2.62	.010	
6014	2	3		.39				.08			8.50	.070	
6014	6	2		.06				.02				1.07	
6014	7	2	.85	.30	.52	.030		.06	.90	2.52		.030	
6014	7	2	.84		.58	.001	.84	.11	1.20	3.10	5.94	.030	
6014	7	5	.89		.56	.019	.84	.13	.84	3.20	5.76	.020	
6014	10	1		.53				.06				.030	
6015	2	1		.16				.04				.030	
6015	6	1	1.31	.45	.36	.040		.07	.80	2.53		.050	
6016B	2	1	.42		.26	.004	.10	.03	.20	.84	1.24	.030	
6016B	6	1		.90				.08				.030	
6017	1	2	1.52	.36	.64	.040		.08	.64	2.85	4.73	.070	
6017	5	1	1.70		.38	.040	.28	.13	1.50	4.50		.090	

HOLE	CORE	SEC	UCM	LCM	SIO2	TIO2	AL203	FE203T	FEO	CAO	MGO	K2O
6017	5	1	122.	150.	61.99	.69	17.19	6.77	2.80	1.72	1.86	3.14
6017	6	1	100.	120.	57.49	.59	11.78	6.16	5.90	1.80	1.50	2.43
6017	9	1	123.	146.	68.51	.41	8.92	5.61		2.23		2.18
6018	6	2	50.	70.	86.51	.14	1.55	.44	.40	.48	.08	.42
6019	1	CC			64.91	.60	9.88	4.90		1.20		2.34
6019	1	2	10.	30.	62.48	.61	7.71	4.11	3.70	1.35	13.0	2.07
6019	1	2	30.	50.	61.53	.74	8.06	4.00	4.30	1.93	1.30	2.05
6019	2	3	100.	145.	61.93	.67	13.04	5.91		1.16		2.86
6019	5	1	81.		68.98	.70	11.33	4.69		.98		2.26
6019B	1	2	100.	137.	62.00	.66	7.73	4.27	2.19	1.83	1.27	2.08
6020	1	1	70.	100.	56.10	.62	13.93	6.08	3.08	3.99	2.74	3.14
6020	1	1	110.	126.	60.28	1.03	12.97	5.38		4.04		2.96
6020	1	3	75.	90.	63.54	.71	13.31	5.31		2.78		3.04
6020	3	3	100.	137.	52.40	.65	15.90	6.97	3.24	3.49	3.00	3.44
6020	6	1	55.	90.	47.30	.65	12.58	4.08	2.13	.78	1.26	2.22
6021	1	3	0.	20.	47.27	.66	12.71	5.96		4.49		3.59
6021	2	3	100.	150.	56.76	.72	12.72	5.46		2.72		3.01
6021C	8	3	4.	50.	53.90	.92	15.20	5.37		1.48		2.98
6021C	9	3	35.	55.	58.92	1.11	15.91	5.87	6.30	2.16	2.20	3.18
6021C	10	2	115.	140.	52.97	1.03	15.09	6.15		1.70		3.22
6021C	14	1	110.	56.	.97	13.2		5.66		1.59		3.11
6021C	21	2	100.		52.90	.63	13.34	6.15		2.02		3.12
6021C	26	3	75.		56.21	.88	11.25	4.97		3.50		2.77
6021C	32	1	69.		49.87	.57	11.75	5.53		5.39		3.16

HOLE	CORE	SEC	NA2OT	CORG	CL	F	S	P205	H20-	H20+	IGL	MN02
6017	5	1	1.66	.50	.42	.060		.15	1.35	4.36	7.33	.090
6017	6	1	1.60		.48	.025	.30	.14	1.50	3.50	6.90	.080
6017	9	1		.46				.20			7.33	.060
6018	6	2	.40		.34	.003	.09	.02	.24	.42	1.13	.020
6019	1	CC		2.07				.14				.060
6019	1	2	2.30		1.58	.025	.92	.13	2.30	3.80	10.72	.040
6019	1	2	2.30		1.66	.034	.96	.12	2.20	4.00	11.49	.040
6019	2	3		1.13				.12				.060
6019	5	1		.58				.12				.050
6019B	1	2	2.24		1.37	.040		.11	1.92	4.36		.050
6020	1	1	2.04	.61	.55	.080		.15	1.09	3.17		.080
6020	1	1						.16		10.5		.080
6020	1	3						.17				.070
6020	3	3	2.57	.49	.57	.090		.21	1.58	3.77		.090
6020	6	1	:49	.41	.08	.060		.14	1.67	4.52		.060
6021	1	3						.16				.090
6021	2	3		.46				.17				.070
6021C	8	3		.40				.12				.070
6021C	9	3	2.30		.40	.007	.18	.17	1.30	3.90	7.24	.070
6021C	10	2		.47				.13				.080
6021C	14	1						.12				.070
6021C	21	2		.37				.11				.080
6021C	26	3		.68				.12				.060
6021C	32	1						.13				.080

CHAPTER V

CHEMICAL ANALYSES (TRACE ELEMENTS)

by Frank T. Manheim and Judith A. Commeau

Mn, Zn, Li and Rb were determined by flame atomic absorption spectroscopy; Pb, Cd, As and Ag were determined by graphite furnace-atomic absorption spectroscopy by E. Campbell and P. Aruscavage. These analysts determined W and Mo concentrations spectrophotometrically. B, Co, Cr, Cu, La, Ni, V, and Zr were determined by quantitative emission spectroscopy by E. Silk, C. Annell and D. W. Golightly in the Reston, Va., laboratories of the U.S. Geological Survey. Uranium and thorium analyses were performed by H. T. Millard, C. McFee, and C. Bliss in the USGS Denver laboratories. However, subsequent check showed discrepancies in some thorium data, and the Th values shown here may be unreliable. "L" following a value means "less than". Values are in parts per million.

Explanation of Headings

UCM	Upper limit of sample interval (cm)
LCM	Lower limit of smaple interval (cm)
AG	Silver
AS	Arsenic
B	Boron
CD	Cadmium
CO	Cobalt
CR	Chromium
CU	Copper
GA	Gallium
LA	Lanthanum
LI	Lithium
PB	Lead

Explanation of Headings (cont.)

MN	Manganese
MO	Molybdenum
NI	Nickel
RB	Rubidium
SN	Tin
TH	Thorium
U	Uranium
V	Vanadium
W	Tungsten
ZN	Zinc
ZR	Zirconium

HOLE	CORE	SEC	UCM	LCM	AG	AS	B	CD	CO	CR	CU	GA	LA	LI
6002	1	1	0	20	.041	2.5	20.L	2.20	10.	2.L	2.L	20.L	4.	
6002	2	1	6	9	1.000L	7.4	40.	12.00	10.	35.	52.	20.L	31.	
6002	3	1	10	40	.130	4.9	20.L	1.90	6.	21.	5.	20.L	4.	
6002	4	1	48	50	.100L	7.6	90.	17.00	6.	120.	41.	20.L	38.	
6002	5	1	0	20	.100L	7.0	90.	11.00	8.	120.	31.	20.L	42.	
6002	6	1	10	13				2.00						46.
6002	6	1	30	32	1.000L		90.	3.90	8.	120.	38.		40.	
6002	7	2	50	70	.630	4.7	100.	12.00	7.	190.	38.		50.	11.
6002	9	2	80	81	.290	6.1	30.	.38	6.	93.	8.		20.L	17.
6002	10	2	20	40	.200	5.5	40.	1.30	7.	150.	13.		20.L	35.
6002	11	1	0	5	.210	5.7	60.	1.60	10.	170.	9.		20.L	22.
6002	12	2	40	60	.088	3.1	50.	.52	12.	130.	10.		20.L	23.
6002	13	1	45	48	.076	4.3	70.	.77	12.	160.	9.		20.L	32.
6002	14	1	87	90	.098	2.8	50.	.50	13.	160.	9.		20.L	24.
6002	15	1	8	12	.083	2.9	50.	.50	13.	140.	9.		20.L	20.
6002	16	2	32	53	.180	3.0	50.	.54	11.	87.	5.		20.L	10.
6002	16	2	83		.066	2.5	50.	.46	9.	50.	3.		20.L	6.
6002	16	3	44	98	.073		30.		12.	29.	5.		20.L	
6002	17	3	120	122	.700	3.0		.20	6.	89.	10.	9.	210.	49.
6002	17	3	130	150	.940	5.6	50.	.68	13.	44.	6.		30.	14.
6002	19	1	15	18	1.000L	1.6	20.L	1.60	6.	30.	2.L		20.L	7.
6002	20	3	40	45	.200	2.1	30.	2.90	8.	52.	3.		20.L	18.
6002	22	1	40	60	1.000L	1.2	20.L	.75	8.	19.	2.		20.L	8.
6002	23	2	11	32	.550	.9	20.L	.77	7.	18.	3.		20.L	6.
6002	24	1	50	55	.340	1.5	20.L	3.80	5.	15.	3.		20.L	6.
6002	24	1	110	112	2.000	2.0		1.00	6.	52.	23.	8.	160.	18.
6002	27	CC			.057	1.6	20.L	.96	9.	17.	2.L		20.L	6.
6002	33	1	7	27	.061	2.5	20.L	4.40	8.	22.	2.L		20.L	27.
6002	33	1	80	95	.061	2.4	40.	.48	6.	26.	2.L		20.L	210.
6004	1	1	120	140	.049	3.6		2.80	2.L	55.	14.		40.L	16.
6004	6	1	50	73	1.000L	3.2		.88	2.L	20.	6.		40.L	8.
6004	7	4	30	50	.150	2.7		4.10	2.L	33.	8.		40.L	17.
6004	10	3	71	90	.140	3.0		9.20	2.L	70.	16.		40.L	15.
6004	14	6	33	60	.170	2.3		4.60	2.L	62.	7.		40.L	8.
6004B	2	1	30	50	.150	2.1		.34	2.L	41.	10.		40.L	4.
6004B	2	1	69	71	.400	2.0		.20	5.	100.	16.	8.	180.	13.
6004B	4	1	110		.800	3.0		.30	5.	220.	21.	11.	140.	38.
6004B	5	1	112	121	1.000	7.3		16.00	2.L	130.	24.		40.L	18.
6004B	6	2	30	50	1.000L	2.9		.38	4.	58.	11.		40.L	17.
6004B	7	1	80		.400L	8.0		.30	4.	130.	11.	11.	25.	49.
6004B	11	1	45	63	1.000L	2.1		1.60	2.L	80.	14.		40.L	23.
6004B	15	1	45	74	.082	2.2		3.10	2.L	89.	18.		40.L	22.
6004B	19	6	80		.500	17.0		.80	8.	270.	19.	18.	110.	95.
6004B	20	1	86	114	.170	33.0		9.20	2.L	190.	30.		50.	20.
6005	2	1	50	70	.046	.7	20.	4.40	8.	8.	2.L		20.L	4.
6005	4	2	80	85	.013	1.2	20.L	.84	4.	8.	2.L		20.L	4.
6005	5	1	145		.400L	8.0		.70	4.	300.	9.	14.	75.	34.
6005	6	1	80		1.000L	1.7	80.	11.00	5.	97.	3.		20.L	9.
6005B	2	2	10	20	1.000L	2.5	20.	.15	5.	2.L	2.L		20.L	7.
6005B	2	2	20	40	.050	.5	20.L	.56	6.	2.L	2.L		20.L	4.
6006	6	6	20	40	.044	4.2	20.L	.50	6.	17.	2.L		20.L	7.
6006	6	6	56	58	.055	2.1	20.	3.90	9.	43.	5.		20.L	16.
6007	2	2	115	119	.051	2.3	40.	.32	6.	13.	5.		20.L	13.
6007	2	2	124	126			11.0		.28					53.
6007	5	1	30	45	.073			100.		11.	62.	30.		20.L
6007	10	1	115	142	1.000L	5.6	40.	.54	6.	15.	10.		20.L	19.
6007B	1	1	117	122	.120	9.7	100.	12.00	9.	40.	28.		20.L	51.
6007B	2	2	120	140	.054	12.0	70.	.32	7.	38.	17.		20.L	37.
6007B	4	2	55	58	.085	8.8	110.	.24	9.	52.	325.		20.L	43.
6007B	8	1	140		.037	33.0	40.	.57	7.		11.		20.L	10.

HOLE	CORE	SEC	PB	MN	MO	NI	RB	SN	TH	U	V	W	ZN	ZR
6002	1	1	16.0	73.	.7L	4.L	6.		4.3	1.15	10.	.5L	5.	160.
6002	2	1	48.0	290.	10.0	6.	19.		25.5	5.50	60.	.9	36.	230.
6002	3	1	3.0	71.	5.6	4.L	2.		17.8	6.97	20.	.5L	12.	340.
6002	4	1	8.6	150.	6.8	26.			15.0	8.25	90.	.6	130.	80.
6002	5	1	13.0	220.	6.3	20.	52.		19.1	3.45	110.	.7	90.	90.
6002	6	1	16.0	260.				38.					55.	
6002	6	1	5.8	130.			22.	23.					65.	70.
6002	7	2	3.6	32.	10.0	28.	5.		148.0	51.40	40.	.5L	130.	40.
6002	9	2	4.8	71.	33.0	11.	13.		61.2	10.60	40.	.5L	41.	110.
6002	10	2	6.5	110.	13.0	28.	23.		113.0	3.17	60.	.8	68.	50.
6002	11	1	7.5	94.	12.0	22.	15.		49.1	21.20	60.	.5	62.	160.
6002	12	2	7.0	57.	5.6	17.	12.		12.8	3.47	40.	.7	43.	50.
6002	13	1	5.9	56.	8.8	17.	14.		16.6	3.54	50.	.8	54.	50.
6002	14	1	5.9	53.	7.0	19.	12.		11.2	3.43	40.	.7	43.	50.
6002	15	1	4.8	50.	7.0	22.	9.		10.8	4.00	30.	.5	39.	50.
6002	16	2	12.0	62.	2.2	10.	8.		7.9	7.09	20.	.5L	31.	140.
6002	16	2	.8	58.	1.0	4.	3.		5.1	7.05	10.	.5L	20.	100.
6002	16	3							12.8	5.77	20.			20.
6002	17	3	4.0	480.	3.0	42.	49.	4.L		70.	11.0		11.	54.
6002	17	3	3.8	360.	3.4	26.	8.		15.9	8.58	30.	.6	40.	50.
6002	19	1	2.7	81.	.8	5.	.		5.5	1.64	20.	.5L	20.	90.
6002	20	3	3.5	74.	1.1	10.	10.		7.1	1.41	30.	.5L	36.	170.
6002	22	1	1.2	39.	.4	7.	2.		3.3	1.91	10.	.5L	13.	10.
6002	23	2	1.2	37.	.3	6.	2.		2.4	1.98	20.	.5L	11.	20.
6002	24	1	1.7	54.	1.4	4.	26.	4.L		41.	5.0L		4.	98.
6002	24	1	6.0	120.	3.5	14.	25.	4.L					4.	98.
6002	27	CC	3.0	44.	.8	8.	3.		3.1	1.43	10.	.5L	18.	60.
6002	33	1	4.2	69.	1.0	9.	5.		6.3	2.27	10.	.5L	19.	70.
6002	33	1	13.0	63.	.6	9.	17.		15.8	3.02	20.	.5L	31.	80.
6004	1	1	33.0	140.	1.3	11.	11.		8.4	7.09	30.	.5L	30.	320.
6004	6	1	2.6	110.	4.2	5.	6.		3.6	4.70	10.	.5L	12.	320.
6004	7	4	12.0	170.	5.4	7.	73.		5.6	4.41	20.	.7	63.	230.
6004	10	3	4.4	100.	12.0	19.	17.		5.2	6.32	30.	.9	25.	190.
6004	14	6	2.0	150.	3.2	8.	11.		4.6	5.66	50.	.5L	32.	110.
6004B	2	1	4.4	150.	1.8	10.	5.		4.5	5.01	20.	.5L	25.	110.
6004B	2	1	3.0	220.	3.0	20.	24.	4.L					7.	22.
6004B	4	1	2.0	270.	8.0	34.	56.	4.L					13.	96.
6004B	5	1	4.0	110.	5.4	31.	11.		6.6	8.78	60.	.5	120.	120.
6004B	6	2	9.0	130.	1.5	17.	29.		4.0	2.33	30.	1.3	47.	150.
6004B	7	1	8.0	140.	6.0	22.	75.	4.L					15.	210.
6004B	11	1	5.6	120.	1.5	12.	36.		3.9	1.78	30.	1.0	55.	150.
6004B	15	1	8.0	110.	1.9	17.	35.		4.1	2.33	40.	1.0	78.	150.
6004B	19	6	15.0	300.	15.0	48.	91.	4.L					15.	580.
6004B	20	1	79.0	130.	2.7	18.	37.		5.7	11.20	100.	.8	46.	230.
6005	2	1	11.0	150.	.5	4.	20.		4.2	.90	10.	.5L	8.	110.
6005	4	2	9.2	170.	.4	4.	15.		4.3	1.60	10.	.5L	9.	250.
6005	5	1	10.0	160.	4.5	24.	62.	4.L					15.	390.
6005	6	1	20.0	120.	2.4	7.	28.		10.0	2.10	20.	1.6	30.	760.
6005B	2	2	8.2	110.	1.0	4.L	17.		3.1	86.00	10.L	.5L	11.	230.
6005B	2	2	23.0	110.	.2	4.L	19.		3.7	.64	10.L	.5L	8.	80.
6006	6	6	7.6	140.	.9	4.	9.		5.6	.83	20.	.5L	13.	130.
6006	6	6	7.8	280.	.5	14.	27.		7.2	.78	30.	.5L	31.	190.
6007	2	2	11.0	300.	.3	8.	34.		4.8	1.28	20.	.5L	25.	560.
6007	2	2	16.0	330.	2.0		86.					1.4	76.	
6007	5	1				37.			10.0	3.08	60.			520.
6007	10	1	8.8	180.	.8	8.	31.		10.1	1.08	20.	.8	31.	230.
6007B	1	1	15.0	260.	1.1	29.	80.		14.9	2.86	60.	1.1	64.	480.
6007B	2	2	13.0	210.	1.0	19.	57.		11.0	2.42	40.	1.1	52.	390.
6007B	4	2	14.0	220.	2.0	30.	74.		12.1	3.15	60.	.9	60.	850.
6007B	8	1	25.0	220.	1.0	6.	24.		6.7	.88	40.	.8	26.	480.

HOLE	CORE	SEC	UCM	LCM	AG	AS	B	CD	CO	CR	CU	GA	LA	LI
6007B	10	6	40	60	.048	6.3	70.	.41	7.	40.	16.		20.L	39.
6007B	11	22	10	30	.063	30.0	280.	.33	6.	110.	19.		20.L	29.
6007B	13	CC			.045	8.2	80.	2.80	8.	48.	19.		20.L	53.
6008	1	2	45	65	.054	6.4	30.	.41	10.	59.	33.		20.L	35.
6008	5	1	80	100	.020		20.	.13	4.	7.	5.		20.L	6.
6008	10	CC			.032	4.6	20.	.98	8.	39.	10.		20.L	18.
6009	1	1	132	137	.190	4.9	40.	15.00	7.	42.	48.		20.L	25.
6009	6	1	7		.053	25.0	40.	2.50	7.	42.	25.		20.L	20.
6009	9	1	80	110	.070	7.3	20.L	.73	9.	7.	4.		20.L	5.
6009	13	3	40	60	.068	11.0	50.	1.50	14.	84.	42.		20.L	43.
6009B	11	1	140	150	.087	9.3	110.	.85	22.	97.	41.		30.	63.
6009B	12	1	70	90	.100	16.0	100.	.92	16.	79.	51.		20.L	60.
6009B	14	1	118	140	.052	10.0	80.	1.10	15.	47.	25.		30.	40.
6009B	21	3	10	15	.094	17.0	100.	.27	10.	54.	31.		20.L	51.
6009B	23	2	40	100	.036	1.3	20.	.18	7.	2.L	3.		20.L	5.
6009B	27	1	50	70	.036	1.2	70.	.36	7.	56.	11.		20.L	28.
6009B	27	2	20	25	.040	1.6	80.	.18	7.	53.	21.		20.L	45.
6009B	31	1	110	125	.046	1.2	20.L	.17	7.	2.L	2.L		20.L	5.
6009B	31	2	40	70	.120	1.2	20.L	.18	7.	2.L	3.		20.L	45.
6010	20	5	35	65	.070	11.0	100.	.51	20.	90.	50.		20.L	54.
6010	22	6	100	120	.069	29.0	350.	.42	14.	82.	34.		30.	41.
6010	26	2	10	30	.087		90.			12.	68.		20.L	
6010	26	2	52	70	.110	12.0		.23	4.	74.	36.		40.L	73.
6010	27	1	77	82	.078	18.0	170.	1.60	3.	36.	12.		20.L	61.
6010	27	1	84	108	.049	20.0	110.	6.10	8.	58.	29.		20.L	17.
6010	27	1	115	120	.074	17.0	110.	2.40	9.	80.	22.		20.L	53.
6010	33	2	10	30	.087	4.8	90.	.02	5.	29.	22.		20.L	50.
6011	1	1	86	100	.160	12.0	40.	12.00	19.	110.	39.		20.L	49.
6011	8	4	40	55	.120	15.0	80.	.81	6.	67.	21.		20.L	51.
6011	14	2	25	50	1.000L	12.0	80.	.98	4.	37.	13.		20.L	41.
6011	15	2	42	46	.130	12.0	80.	2.40	4.	67.	15.		20.L	44.
6011	16	1	90	95	.160	.9	30.	.14	2.L	19.	27.		20.L	7.
6011	17	2	140		.210	1.1	20.L	.18	2.L	6.	24.		20.L	5.
6011	20	1	110	134	.086	1.6	70.	.37	2.L	17.	11.		20.L	6.
6011	23	1	144	148	.072	11.0	250.	1.20	2.L	69.	13.		20.L	11.
6011	28	4	45	70	.100	14.0	140.	1.80	2.L	68.	15.		20.L	40.
6012	3	4	10	30	.078	14.0	60.	.23	43.	85.	43.		20.L	61.
6012	3	4	80	130	.800	22.0		.40	23.	150.	39.		72.	95.
6012	12	6	25	50	.086	17.0	70.	.32	43.	51.	27.		20.L	55.
6012	33	4	76	80	.140	10.0	100.	.02	56.	59.	35.		20.L	57.
6012	33	4	100	120	.087	17.0	340.	.42	41.	160.	29.		20.L	36.
6013	4	1	96	113	.360	28.0	90.	5.40	13.	61.	37.		20.L	47.
6013	4	1	120	150	.600	20.0		5.00	16.	140.	29.		26.	75.
6013	7	3	50	100	.600	23.0		.30	18.	160.	63.		33.	75.
6013B	13	1	115	140	.068	12.0	80.	2.90	7.	51.	27.		20.L	38.
6013B	26	1	145	146	.400	11.0		.80	8.	120.	16.		18.	44.
6014	2	2	65	90	21.00	3.0	20.L	.05	2.L	2.L	5.		20.L	7.
6014	7	2	48	98	.600	14.0		.20	9.	110.	20.		21.	38.
6014	7	2	125	130	.049	11.0	80.	2.90	8.	68.	27.		20.L	35.
6014	7	5	40	65	2.100	7.5	70.	2.70	8.	53.	49.		20.L	34.
6015	4	1	95	100	.150	29.0	120.	1.10	9.	86.	36.		20.L	82.
6015	6	1	95	145	.700	9.0		.80	14.	82.	26.		34.	42.
6016B	2	1	85	150	.025	3.0	50.	.44	2.L	17.	13.		20.L	7.
6017	1	2	50	100	1.000	10.0		.60	13.	84.	20.		28.	51.
6017	5	1	95	115	.069	13.0	70.	.12	17.	83.	83.		20.L	58.
6017	5	1	122	150	.700	14.0		.30	19.	130.	40.		38.	61.
6017	6	1	100	120	.072	11.0	70.	1.40	16.	76.	89.		20.L	45.
6018	6	2	50	70	.097	1.1	60.	.20	2.L	2.L			20.L	5.
6019	1	2	10	30	.150	9.1	130.	2.00	9.	81.	85.		20.L	32.
6019	1	2	30	50	.160	8.4		1.70	2.	82.	40.		40.L	31.

HOLE	CORE	SEC	PB	MN	MO	NI	RB	SN	TH	U	V	W	ZN	ZR
6007B	10	6	13.0	200.	.9	12.	52.		13.2	2.34	20.	1.0	47.	930.
6007B	11	22	13.0	150.	.7	10.	110		7.7	2.64	50.	.6	53.	410.
6007B	13	CC	19.0	260.	1.0	14.	59.		12.1	2.03	30.	.9	57.	260.
6008	1	2	14.0	450.	1.1	24.	63.		9.6	1.20	20.	.5	61.	120.
6008	5	1	4.6	140.	.4	4.L	9.				10.	.5L	10.	360.
6008	10	CC	5.8	140.	1.2	6.	13.		5.4	1.27	10.	.5	30.	570.
6009	1	1	22.0	450.	.4	12.	49.		8.5	1.05	30.	.5	47.	180.
6009	6	1	11.0	460.	1.0	11.	33.		7.5	1.88	20.	.5L	40.	120.
6009	9	1	4.8	53.	2.0	4.L	2.		2.6	.85	20.	.5L	7.	70.
6009	13	3	15.0	700.	3.6	36.	88.		16.0	1.76	40.	.8	90.	110.
6009B	11	1	20.0	400.	4.0	42.	100		19.8	1.72	100.	1.0	90.	370.
6009B	12	1	22.0	330.	2.0	31.	95.		18.1	2.22	70.	1.4	89.	310.
6009B	14	1	14.0	190.	3.9	18.	52.		16.4	1.87	60.	.7	59.	380.
6009B	21	3	16.0	160.	1.4	26.	82.		10.8	3.20	60.	1.3	70.	360.
6009B	23	2	3.4	92.	.8	4.L	4.		2.4	.49	10.L	.5L	7.	200.
6009B	27	1	15.0	400.	.6	7.	53.		12.7	1.39	40.	.9	28.	460.
6009B	27	2	17.0	95.	.5	9.	65.		11.3	2.03	70.	1.1	33.	450.
6009B	31	1	3.6	73.	.3	4.L	5.		2.0	.20	40.	.5L	5.	120.
6009B	31	2	4.4	67.	.5	4.L	2.		2.1	.18	10.L	.5L	5.	90.
6010	20	5	20.0	460.	1.9	50.	110		10.9	3.22	80.	.9	150.	450.
6010	22	6	14.0	230.	1.3	25.	100		13.6	3.19	70.	.7	67.	210.
6010	26	2				32.			14.9	3.66	90.		180.	
6010	26	2	25.0	300.	1.9	29.	120		12.4	3.40	110.	1.3	100.	210.
6010	27	1	24.0	250.	1.0	7.	110		15.2	2.84	30.	1.3	83.	420.
6010	27	1	17.0	170.	2.0	23.	44.		11.5	2.55	70.	.5	39.	230.
6010	27	1	21.0	200.	2.0	28.	90.		10.7	3.41	70.	1.3	74.	350.
6010	33	2	16.0	750.	.9	12.	110		13.5	1.84	20.	1.0	77.	2.
6011	1	1	29.0	750.	2.0	56.	120		14.8	2.43	90.	.8	130.	180.
6011	8	4	17.0	150.	3.0	26.	80.		13.7	2.95	70.	1.3	100.	220.
6011	14	2	16.0	150.	3.0	18.	58.		12.0	2.86	40.	1.1	78.	420.
6011	15	2	17.0	120.	3.0	21.	58.		20.1	2.50	50.	1.1	84.	380.
6011	16	1	7.0	200.		5.	11.		2.7	1.44	10.	.5L	16.	970.
6011	17	2	5.2	200.		4.L	5.		2.4	1.09	10.	.5L	12.	650.
6011	20	1	6.2	250.	.8	8.	6.		4.7	2.07	10.	.9	34.	1300.
6011	23	1	17.0	190.	2.3	4.	65.		7.1	3.20	30.	.9	71.	550.
6011	28	4	13.0	160.	4.8	12.	72.		8.8	4.01	20.	.9	84.	360.
6012	3	4	26.0	750.	1.3	37.	140		18.4	2.85	80.	1.7	99.	180.
6012	3	4	35.0	990.	3.0	54.	170	4.L		130.	5.0L	10.	550.	
6012	12	6	24.0	510.	2.0	25.	110		20.1	3.14	50.	1.8	84.	180.
6012	33	4	19.0	440.	.4	32.	110		12.3	3.57	50.	1.3	75.	230.
6012	33	4	12.0	300.	.9	25.	110		13.0	5.55	60.	.9	65.	230.
6013	4	1	17.0	380.	2.2	45.	85.				60.	1.3	60.	220.
6013	4	1	13.0	860.	1.0L	65.	130	4.L			120.	5.0L	14.	540.
6013	7	3	46.0	810.	1.0L	74.	150	4.L			120.	5.0L	19.	630.
6013B	13	1	24.0	230.	1.4	21.	68.		13.6	1.11	50.	1.0	42.	290.
6013B	26	1	6.0	560.	5.0	36.	76.	4.L			88.	5.0L	36.	760.
6014	2	2	6.6	140.	.6	4.L	5.		2.5	.96	20.	.1L	10.	100.
6014	7	2	13.0	540.	1.0L	40.	76.	4.L			110.	5.0L	14.	830.
6014	7	2	15.0	250.	.9	26.	60.		9.9	1.63	50.	1.1	44.	360.
6014	7	5	15.0	210.	1.0	25.	63.		9.2	2.04	50.	1.3	45.	360.
6015	4	1	40.0	330.	2.9	31.	97.		15.3	3.24	80.	1.5	110.	150.
6015	6	1	13.0	830.	1.0L	38.	91.	4.L			110.	5.0L	26.	560.
6016B	2	1	19.0	290.	.8	4.L	18.		4.3	1.95	20.	.7	14.	570.
6017	1	2	16.0	900.	1.0L	40.	100	4.L			110.	5.0L	21.	700.
6017	5	1	25.0	740.	1.1	40.	120		11.7	3.27	80.	6.7	93.	200.
6017	5	1	29.0	1000	1.0L	42.	140	4.L			130.	5.0L	21.	800.
6017	6	1	22.0	650.	1.1	35.	94.		10.1	3.20	80.	3.7	76.	220.
6018	6	2	3.2	140.	.2	4.L	10.		1.9	.50	40.	.5L	6.	240.
6019	1	2	66.0	400.	5.7	26.	72.		10.1	4.45	70.	1.2	53.	670.
6019	1	2	50.0	400.	5.9	20.	72.		9.3	4.14	70.	1.3	54.	480.

HOLE	CORE	SEC	UCM	LCM	AG	AS	B	CD	CO	CR	CU	GA	LA	LI
6019B	1	2	100	137	.700	14.0		2.00	8.	120.	13.	20.	73.	53.
6020	1	1	70	100	.600	15.0		3.00	18.	120.	36.	28.	66.	62.
6020	3	2	100	137	.800	12.0		22.00	23.	140.	45.	40.	96.	65.
6020	6	1	55	90	.400L	15.0		12.00	33.	130.	36.	30.	64.	84.
6021C	9	3	35	55	.140	10.0	80.	2.60	14.	76.	75.		20.L	53.
6021C	30	2	25	46	.130	6.6	80.	1.10	13.	69.	66.		20.L	41.

HOLE	CORE	SEC	PB	MN	MO	NI	RB	SN	TH	U	V	W	ZN	ZR
6019B	1	2	210.	840.	10.0	39.	110	4.L		110.	5.0L	21.	810.	
6020	1	1	38.0	1700	1.0L	66.	150	4.L		130.	5.0L	14.	760.	
6020	3	2	27.0	1800	1.0L	72.	150	4.L		140.	5.0L	17.	630.	
6020	6	1	28.0	960.	3.0	77.	200	4.L		130.	5.0L	35.	840.	
6021C	9	3	21.0	650.	1.5	32.	120		17.9	2.66	70.	1.6	86.	220.
6021C	30	2	17.0	590.	1.6	33.	98.		13.1	2.27	70.	1.0	79.	370.

CHAPTER VI

GEOTECHNICAL PROPERTIES

by James S. Booth

Explanation of Headings

SAL	Salinity (0/00)
BLK	Lab bulk density (g/cm^3)
H2O	Water content corrected (%)
VDR	Void ratio
POR	Porosity (%)
LL	Liquid limit (%)
PL	Plastic limit (%)
LI	Liquidity index
PI	Plasticity index (%)
SG	Specific gravity (g/cm^3)
TOR	Shear strength torvane (kPa)
SSLU	Shear strength labvane undisturbed (kPa)
SSLR	Shear strength labvane remolded (kPa)
SENS	Sensitivity

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HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6002	1-1	6											5.0			
6002	2-1	5											2.0			
6002	3-1	5											5.0			
6002	3-3	5											10.0			
6002	3-4	20												3.0	1.5	2.0
6002	3-5	5											2.0			
6002	3-5	115												13.0	6.9	1.9
6002	3-6	113											21.0			
6002	4-1	85											53.0			
6002	4-1	91												42.0		
6002	4-2	10											24.0			
6002	4-3	45											55.0			
6002	4-4	44											62.0			
6002	4-5	5											19.0			
6002	4-6	5											34.0			
6002	4-6	137	32.0					200.0	87.0	11	2.39					
6002	5-1	5											21.0			
6002	7-1	5											5.0			
6002	7-2	117	33.4					156.0	79.0	77	2.53	54.0	11.0	4.7		
6002	7-2	145											53.0			
6002	8-1	35											24.0			
6002	8-2	5											24.0			
6002	8-3	5											34.0			
6002	8-3	137	33.4					203.0	103.0	10	2.38					
6002	9-1	15											43.0			
6002	9-2	10											43.0			
6002	9-3	5											48.0			
6002	9-4	5											48.0			
6002	9-5	5											48.0			
6002	9-6	5											57.0			
6002	9-6	137						106.0	40.0	66	2.58					
6002	10-2	5											14.0			
6002	10-2	113	34.3					143.0	53.0	90	2.55					
6002	11-2	5											14.0			
6002	11-2	113						114.0	36.0	78	2.52					
6002	12-1	100											29.0			
6002	12-2	5											67.0			
6002	12-3	5											53.0			
6002	13-1	10											29.0			
6002	14-6	1											19.0			
6002	14-6	150											34.0			
6002	15-3	84											48.0			
6002	15-4	11											38.0			
6002	16-1	41											34.0			
6002	16-2	5											24.0			
6002	17-1	130											10.0			
6004	1-1	104											10.0			
6004	1-1	150	1.65	59.0									10.0			
6004	1-2	10											7.0			
6004	1-2	127						1.56	.61				2.65			
6004	2-2	107	36.1					1.43	.59				2.66			
6004	2-2	135											29.0			
6004	2-2	150	1.69	54.0												
6004	3-1	132	36.0					1.29	.56				2.74			
6004	3-1	150		47.0												
6004	4-1	140											14.0			
6004	4-3	150											12.0			
6004	4-4	100											22.0			
6004	4-4	110												6.5	.7	9.0
6004	4-4	150											19.0			
6004	5-2	137											2.69			
6004	5-4	99											2.64	12.0		
6004	5-4	135												7.2	.4	20.0
6004	5-4	150											22.0			
6004	6-2	75											2.65	12.0		
6004	6-3	20											19.0			
6004	6-3	150											10.0			
6004	6-4	125											.69	12.0		
6004	6-5	5											14.0			
6004	6-5	135												4.8	1.3	3.7

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6004	6-5	150											14.0			
6004	6-6	5											19.0			
6004	6-6	144											29.0			
6004	7-1	107												9.7	1.3	7.5
6004	7-1	125											22.0			
6004	7-1	150											29.0			
6004	7-2	5											24.0			
6004	7-2	150											34.0			
6004	7-3	110											24.0			
6004	7-3	125											42.0	41.0	1	2.68
6004	7-3	150													14.0	2.6
6004	7-4	110											27.0			
6004	7-4	150											29.0			
6004	7-5	150											29.0			
6004	7-6	110											38.0			
6004	7-6	125											29.0			
6004	7-6	150											24.0			
6004	8-1	120													5.7	1.3
6004	8-2	144														4.4
6004	9-1	80														
6004	9-1	125											2.68		17.0	
6004	9-4	125											2.75			
6004	9-6	110												24.0		
6004	10-2	145												17.0		
6004	10-3	5											1.70	46.0		
6004	10-3	105													29.0	
6004	10-3	150													36.0	
6004	10-4	130													17.0	
6004	10-4	145											1.60	68.0		
6004	10-4	150													36.0	
6004	11-1	112													2.63	9.0
6004	11-2	90													9.0	
6004	11-3	90													5.0	
6004	11-4	112													2.65	9.0
6004	11-5	95													9.0	
6004	11-6	100													9.0	
6004	11-6	150													43.0	
6004	12-4	150													29.0	
6004	13-2	82													48.0	
6004	13-3	64													14.0	
6004	13-4	115													10.0	
6004	13-5	105													7.0	
6004	13-6	80													12.0	
6004	13-6	150													33.0	
6004	14-2	37													14.0	
6004	14-3	74													12.0	
6004	14-4	78													5.0	
6004	14-5	56													10.0	
6004	14-6	5														29.0
6004	14-6	100														
6004	15-1	110													5.0	
6004	15-2	110													5.0	
6004	15-3	110													5.0	
6004	15-4	110													10.0	
6004B	2-2	110													10.0	
6004B	2-3	110													10.0	
6004B	2-4	110													19.0	
6004B	2-5	110													19.0	
6004B	2-6	132													31.0	
6004B	2-6	150														
6004B	4-1	110													53.0	
6004B	4-1	145													96.0	
6004B	6-5	145													42.0	
6004B	13-2	135													64.0	
6004B	14-6	145													34.0	
6004B	16-3	145													31.0	
6004B	19-1	145													1.84	33.0
6005	2-1	75													2.65	
6006	3-2	75													2.65	
6006	3-4	25													2.64	

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6006	5CC			2.00	23.0							2.65				
6006	5-2	75											9.0			
6007	2-3	100											67.0			
6007	3-5	145				1.49	42.0						72.0			
6007	3-6	150														
6007	4-5	150				1.91	36.0							53.0		
6007	5-1	150											43.0			
6007	5-2	75														
6007	5-2	115		23.6				.89	.47	54.0	27.0	0.22	27	2.70		
6007	5-2	150			1.78	33.0										
6007	6-2	90											67.0			
6007	6-2	124		23.5						55.0	28.0		27	2.68		
6007	6-2	150											72.0			
6007	6-3	80												57.0	19.0	3.0
6007	6-3	100											86.0			
6007	6-3	145			1.80	39.0								83.0		
6007	8-1	145			2.05	30.0										
6007	9-1	125								58.0	22.0		36	2.67	67.0	
6007	10-1	25											10.0			
6007	10-1	145				1.88	32.0						21.0			
6007B	1-1	150			1.77	33.0								57.0		
6007B	2-3	150											101.			
6007B	4-3	80											57.0			
6007B	4-3	147				2.01	25.0						48.0			
6007B	5CC					1.63	45.0									
6007B	5-1	140											42.0			
6007B	8-2	110											5.0			
6007B	10-2	110											48.0			
6007B	10-3	45											77.0			
6007B	10-4	100											67.0			
6007B	10-5	50											57.0			
6007B	10-5	145		30.7						39.0	21.0		18	2.68	24.0	
6007B	10-6	100											38.0			
6007B	10-6	150											24.0			
6007B	11-2	110											29.0			
6007B	11-5	145			1.67	41.0								19.0		
6007B	12-4	145			1.57	43.0								24.0		
6007B	12-5	70											22.0			
6008	1-1	100														
6008	1-2	63												11.0	3.0	4.0
6008	1-2	123		27.6				.78	.44	25.0	13.0	1.33	12	2.68		
6008	1-2	149			1.90	29.0								16.0		
6008	1-3	150											21.0			
6008	1-4	125		27.6				.79	.44	59.0	27.0	0.09	22	2.66		
6008	1-4	150			1.92	30.0							27.0			
6008	2-1	150				1.86	27.0									
6008	3-1	145				1.87	27.0							26.0		
6008	4-2	105		9.7				1.16	.54	52.0	19.0	0.73	33	2.69		
6008	4-2	150				1.76	43.0							2.64		
6008	5-1	125														
6008	6-1	115		1.6				.62	.38	20.0	17.0	3.00	3	2.69		
6008	6-1	150			2.02	23.0								20.0		
6008	9-2	150												2.62		
6008	12-2	25												2.64		
6008	13-1	125														
6009	1-1	143												22.0		
6009	1-1	150				2.14	15.0							57.0		
6009	2-1	150				1.82	32.0									
6009	3-2	150												50.0		
6009	3-3	4												56.0		
6009	3-3	131												57.0		
6009	3-3	150												91.0		
6009	5CC					1.96	29.0									
6009B	1-1	81		33.3						31.0	18.0		13	2.65		
6009B	1-1	100												19.0		
6009B	1-1	141												56.0		
6009B	1-1	149				2.07	25.0							2.69		
6009B	2-1	125														
6009B	3CC					1.84	38.0									
6009B	3-2	60												62.0		

HOLE	SEC	CM	SAL	BLK	H2O	VDR	FOR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6009B	4-1	115		10.5				58.0	24.0		34	2.71	34.0			
6009B	4-1	150											52.0			
6009B	4-2	48											31.0			
6009B	4-2	139			1.78	43.0										
6009B	4-2	150											34.0			
6009B	5-1	149			1.91	32.0							91.0			
6009B	5CC				1.93	29.0										
6009B	8-1	146											34.0			
6009B	8-1	150											22.0			
6009B	8-2	150											32.0			
6009B	8-3	48											25.0			
6009B	8-3	115	6.9				.83	.45	37.0	25.0	0.50	12	2.68			
6009B	8-3	150					1.96	31.0					44.0			
6009B	9-2	48											32.0			
6009B	9-2	65	7.2				.89	.47	38.0	26.0	0.58	12	2.68			
6009B	9-2	150					1.90	33.0					29.0			
6009B	9CC															
6009B	10-2	105	7.5				.78	.44	44.0	23.0	0.29	21	2.70	19.0		
6009B	10-2	150											43.0			
6009B	10-3	47											41.0			
6009B	10-3	150											50.0			
6009B	10CC						1.93	29.0								
6009B	11-1	105											51.0	23.0	28	2.67
6009B	11-1	150											25.0			
6009B	11-2	99											59.0			
6009B	11-2	150											62.0			
6009B	12-1	100											54.0			
6009B	12-2	100											31.0			
6009B	12-3	100											45.0			
6009B	12-4	150											59.0			
6009B	12-5	46											73.0			
6009B	12-5	150											53.0			
6009B	12-6	52											71.0			
6009B	12-6	150											61.0			
6009B	13CC		1.80	37.0									59.0			
6009B	13-1	42											38.0			
6009B	13-1	57											14.0			
6009B	13-1	150											91.0			
6009B	14-1	140											10.0			
6009B	14-2	100											46.0			
6009B	14-3	47											43.0			
6009B	14-4	46											36.0			
6009B	14-5	47											25.0			
6009B	14CC		1.94	28.0												
6009B	15-1	100											41.0			
6009B	15-2	100											40.0			
6009B	20CC		1.90	27.0												
6009B	21-2	100											91.0			
6009B	21-3	8											91.0			
6009B	22CC		2.10	16.0												
6009B	27-1	47											55.0			
6009B	27-2	47											89.0			
6009B	27-2	100											81.0			
6009B	27-2	129											15.0			
6009B	28-1	100											36.0			
6009B	28-2	100											25.0			
6009B	29-1	142											86.0			
6009B	30-1	150											96.0			
6009B	30-2	70											91.0			
6009B	30-2	150											34.0			
6010	1CC		1.86	40.0												
6010	1-1	150											10.0			
6010	1-2	150											16.0			
6010	1-3	80											17.0			
6010	1-3	150											14.0			
6010	2-1	149			1.81	40.0							8.0			
6010	2-2	100											17.0			
6010	2-2	119	27.5				1.05	.51	47.0	24.0	0.65	23	2.69			
6010	2-2	149			1.81	38.0							16.0			

HOLE	SEC	GM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS	
6010	2CC			1.86	37.0												
6010	3-1	134											8.0				
6010	3-1	150											10.0				
6010	3-2	105	26.7			1.04	.51						2.54	8.0			
6010	3-2	149		1.86	41.0									91.0			
6010	3-2	150												43.0			
6010	3CC			2.08	19.0												
6010	4-1	140												13.0			
6010	4-2	105	25.1			.88	.47	38.0	19.0	0.74	19	2.67	32.0				
6010	4-2	149		1.79	33.0									48.0			
6010	5-1	85	23.5			.79	.44	58.0	24.0	0.15	34	2.75		5.0	3.6	1.4	
6010	5-1	100												52.0			
6010	5-1	150												19.0			
6010	5CC			1.95	29.0									39.0			
6010	6-1	144															
6010	6-2	75	23.5					41.0	21.0		20	2.71					
6010	6-2	150												48.0			
6010	6-3	143												34.0			
6010	6-3	150												19.0			
6010	7-2	105	23.4											2.66			
6010	7-3	100												54.0			
6010	7-3	150												56.0			
6010	7-4	47												77.0			
6010	7-4	124													37.0	7.2	5.1
6010	7-4	125	23.4			.75	.43	33.0	17.0	0.69	16	2.67					
6010	7-4	140												62.0			
6010	7-4	150												56.0			
6010	7CC			1.99	28.0												
6010	8-1	100												53.0			
6010	8CC			1.89	33.0												
6010	9-2	85	23.3					33.0	19.0		14	2.67					
6010	9-3	47												29.0			
6010	9-3	150												34.0			
6010	9CC			2.05	22.0										59.0		
6010	10-1	120															
6010	11-2	75	24.3											2.64			
6010	11-2	144												36.0			
6010	11-2	150												40.0			
6010	11-3	47												50.0			
6010	11-3	141		1.86	23.0									46.0			
6010	12-2	100												14.0			
6010	12-2	150												61.0			
6010	12-3	47												27.0			
6010	12-3	150												36.0			
6010	13-1	123												43.0			
6010	13-1	150													59.0		
6010	13-2	100													36.0		
6010	13-2	140													59.0		
6010	14-2	100													29.0		
6010	14-2	150													13.0		
6010	14-3	100													36.0		
6010	14-3	150													34.0		
6010	14-4	100													38.0		
6010	14-4	150													50.0		
6010	14-5	47													19.0		
6010	14-5	135													7.0		
6010	14-5	150													33.0		
6010	14-6	45													48.0		
6010	14-6	140													69.0		
6010	15-1	120													48.0		
6010	16-1	65													43.0		
6010	16-2	100													38.0		
6010	16-2	150													48.0		
6010	16-3	90													34.0		
6010	16-3	150													77.0		
6010	16-4	46													67.0		
6010	16-4	139													86.0		
6010	18-1	100													58.0		
6010	19-1	25													34.0		
6010	19-1	40													51.0		

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6010	19-1	150											72.0			
6010	19-2	47											31.0			
6010	19-2	150											67.0			
6010	19-3	47											50.0			
6010	19-3	150											72.0			
6010	19-4	100											67.0			
6010	19-4	150											88.0			
6010	19-5	47											67.0			
6010	19-5	150											91.0			
6010	19-6	100											57.0			
6010	19-6	130											91.0			
6010	19-6	139				1.93	28.0									
6010	20-1	140											24.0			
6010	20-2	150											91.0			
6010	20-3	100											38.0			
6010	20-3	150											91.0			
6010	20-4	150											48.0			
6010	20-5	12											67.0			
6010	20-5	150											38.0			
6010	20-6	47											53.0			
6010	20-6	150											91.0			
6010	21-2	5											7.0			
6010	21CC					1.98	23.0									
6010	22-1	100											64.0			
6010	22-1	150											91.0			
6010	22-2	150											79.0			
6010	22-3	142											53.0			
6010	22-3	150											88.0			
6010	22-4	150											91.0			
6010	22-5	100											72.0			
6010	22-5	150											91.0			
6010	22-6	150											31.0			
6010	23-1	142											72.0			
6010	23CC					2.18	18.0									
6010	24-4	5											57.0			
6010	25CC					1.85	25.0									
6010	26-1	100											96.0			
6010	26-2	47											91.0			
6010	26-4	145											91.0			
6010	26-6	46											86.0			
6010	27-1	87											26.0			
6010	27-1	137											91.0			
6011	1-1	100											63.0			
6011	1-1	125				28.9		1.33	.57	65.0	31.0	0.53	34	2.71	62.0	
6011	1-1	149				1.69	49.0									
6011	7-1	142														
6011	8-1	75				1.5				75.0	40.0		35	2.60	34.0	
6011	8-1	100														
6011	8-2	150														
6011	8-3	75				1.5				77.0	47.0		30	2.63	46.0	
6011	8-3	150														
6011	8-5	75				1.5				97.0	58.0		39	2.55	43.0	
6011	8-5	150														
6011	9-1	125				2.2		.94	.48	87.0	47.0		40	2.67	27.0	
6011	9-2	47														
6011	9-2	149				1.68	35.0									
6011	11-2	75								85.0	59.0		26	2.52		
6011	11-5	75								94.0	64.0		30	2.61		
6011	13-1	100														
6011	14-2	75								66.0	39.0		27	2.62	38.0	
6011	16-2	100														
6011	16-2	115														
6012	1-1	150								39.0	26.0		13	2.61		
6012	1-2	135														
6012	1-3	80														
6012	1-4	149				1.89	37.0									
6012	1-5	43														
6012	1-5	95				32.7		.95	.49	53.0	23.0	0.40	30	2.71		
6012	1-5	140														
6012	1CC					1.85	35.0									

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SEWS
6012	2-1	147		1.60	52.0											
6012	2-6	75	32.9			1.02	.50	61.0	26.0	0.34	35			29.0		
6012	2-6	142												23.0		
6012	2-6	150		1.88	38.0											
6012	2CC															
6012	3-2	95												22.0		
6012	3-2	149	31.8	1.68	60.0	1.61	.62	59.0	26.0	1.03	33	2.68				
6012	3-3	116													20.0	5.7
6012	3-3	146												27.0		3.5
6012	3-4	105	31.8			1.30	.57	60.0	25.0	0.69	35	2.66		15.0		
6012	3-4	148		1.76	49.0									29.0		
6012	3-5	100												31.0		
6012	3-5	150												12.0		
6012	3-6	85	31.8			.82	.45	49.0	27.0	0.18	22	2.67				
6012	3-6	100												29.0		
6012	3-6	148		1.93	31.0									48.0		
6012	3CC			1.94	29.0											
6012	4-1	100												19.0		
6012	4-1	150												18.0		
6012	4-3	2		1.91	32.0											
6012	4-3	99	30.2			.87	.46	49.0	15.0	0.50	34	2.70		36.0		
6012	4-3	140												20.0		
6012	5-1	100												35.0		
6012	5-2	100												43.0		
6012	5-3	140												59.0		
6012	5-4	105	30.8					50.0	28.0		22	2.70		40.0		
6012	5-5	142												38.0		
6012	5-5	150												19.0		
6012	5-6	9												49.0		
6012	6-1	105	30.8					49.0	24.0		25	2.70		54.0		
6012	7-1	100												38.0		
6012	7-1	148		1.88	34.0									75.0		
6012	8-1	143												48.0		
6012	8-1	150												48.0		
6012	8-2	100												53.0		
6012	8-2	115	31.7			.92	.48	68.0	27.0	0.17	41	2.69				
6012	8-2	150												54.0		
6012	8-3	94												77.0		
6012	8-3	150												54.0		
6012	9-1	100												19.0		
6012	9-2	100												53.0		
6012	9-2	115				.79	.44	64.0	29.0	0.03	35	2.66			81.0	
6012	9-2	150														
6012	9CC			1.93	30.0											
6012	10-1	57												44.0		
6012	11-1	47												50.0		
6012	11-1	148		1.71	42.0											
6012	11-2	70												53.0		
6012	11-2	100												43.0		
6012	11-3	47												53.0		
6012	11-3	150														
6012	11-4	75												62.0		
6012	11-4	148			1.79	41.0								53.0		
6012	11-5	47												57.0		
6012	11-5	150												44.0		
6012	11-5	150												38.0		
6012	11CC			1.90	34.0											
6012	12-1	130												34.0		
6012	12-2	70												54.0		
6012	12-2	150												43.0		
6012	12-3	32												45.0		
6012	12-4	100												53.0		
6012	12-4	150												63.0		
6012	12-5	100												43.0		
6012	12-5	150												34.0		
6012	12-6	100												53.0		
6012	12-6	150												48.0		
6012	13-1	150												67.0		
6012	13-2	100												53.0		
6012	13-2	150												40.0		
6012	13-3	100												77.0		

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6012	13-3	148			1.89	33.0							56.0			
6012	13-4	47											67.0			
6012	13-4	150											57.0			
6012	13-5	100											38.0			
6012	13-5	150											56.0			
6012	13-6	47											57.0			
6012	13-6	150											73.0			
6012	14-1	100											53.0			
6012	14-2	100											38.0			
6012	14-2	150											57.0			
6012	14-3	100											57.0			
6012	14-3	150											67.0			
6012	14-4	100											43.0			
6012	14-4	150											77.0			
6012	14-5	100											62.0			
6012	14-6	47											72.0			
6012	14-6	140											62.0			
6012	14CC				1.86	35.0										
6012	15-1	100											72.0			
6012	16-1	98											51.0			
6012	16-1	150											47.0			
6012	16-2	100											53.0			
6012	16-2	150											52.0			
6012	16-3	100											67.0			
6012	16-3	150											66.0			
6012	16-4	47											57.0			
6012	16-4	150											61.0			
6012	16-5	100											19.0			
6012	16-5	129				2.07	24.0							72.0		
6012	18-1	100														
6012	18-1	150											75.0			
6012	18-2	100											67.0			
6012	18-2	150											61.0			
6012	18-3	100											62.0			
6012	18-3	150			1.96	31.0							63.0			
6012	18-4	100											77.0			
6012	18-4	150											48.0			
6012	18-5	100											57.0			
6012	18-5	150											43.0			
6012	18-6	47											62.0			
6012	18-6	140											79.0			
6012	19-1	100											24.0			
6012	19-1	150											57.0			
6012	19-2	47											34.0			
6012	19-2	140											67.0			
6012	19CC				2.04	25.0										
6012	21-1	100											19.0			
6012	21-2	100											38.0			
6012	22-1	47											14.0			
6012	22-1	136			2.00	27.0										
6012	25-1	100											72.0			
6012	25-2	100											81.0			
6012	25-3	100											86.0			
6012	25-4	100											77.0			
6012	25-5	100											67.0			
6012	25-6	100											72.0			
6012	26-6	100											86.0			
6012	27-1	100											86.0			
6012	28-1	100											72.0			
6012	28-2	100											43.0			
6012	28-3	100											62.0			
6012	28-4	100											72.0			
6012	28-5	100											86.0			
6012	28-6	47											77.0			
6012	29-1	47											62.0			
6012	29-2	100											86.0			
6012	29-3	47											86.0			
6012	29-4	46											82.0			
6012	29-5	46											86.0			
6012	29-6	47											77.0			

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS		
6012	30-1	100											38.0					
6012	30-2	100											86.0					
6012	30-3	98											71.0					
6012	30-4	47											86.0					
6012	31-1	130											53.0					
6012	31-2	100											77.0					
6012	31-3	47											29.0					
6012	32-1	80											38.0					
6012	32-1	120											48.0					
6012	33-1	100											53.0					
6012	33-2	47											67.0					
6012	33-3	47											86.0					
6012	33-4	47											86.0					
6012	33-4	137											86.0					
6012	33-5	100											86.0					
6012	33-6	47											86.0					
6013	4-1	135	33.9				.59	.37	44.0	22.0		21	2.69					
6013	4-1	150											86.0					
6013	4-2	132		1.96	22.0								56.0					
6013	4-2	150																
6013	5-2	2																
6013	6-2	125	34.0				.64	.39	26.0	19.0	0.86	7	2.66					
6013	6-2	152		2.03	24.0													
6013	6-3	75	34.0				.71	.41	27.0	22.0	1.00	5	2.63					
6013	6-3	149		1.96	27.0													
6013	7-1	100																
6013	7-2	148		1.80	42.0									48.0				
6013	7-3	75	34.0				1.11	.53	56.0	29.0	0.48	27	2.65					
6013	7-3	100												67.0				
6013	7-4	47												53.0				
6013	7-4	148		1.82	39.0													
6013	7-5	35	34.0				1.03	.51	50.0	27.0	0.52	23	2.64					
6013	7-5	113												72.0				
6013	7-6	53												86.0				
6013	7-6	138		1.94	26.0													
6013	8-2	105					.61	.38						2.65				
6013	8-2	131		1.99	23.0													
6013B	17-1	143													57.0			
6013B	19-2	47												34.0				
6013B	24-2	139		1.66	36.0													
6014	6-2	85												2.64				
6014	7-2	85	30.2						30.0	20.0		10	2.63					
6014	7-2	115													14.0			
6014	7-3	107												5.0				
6014	7-4	81	30.2				.72	.42	32.0	25.0	0.29	7	2.68					
6014	7-5	45													10.0			
6014	7-5	147		1.95	27.0										43.0			
6014	10-1	125													91.0			
6015	4-1	100																
6015	4-1	125	34.8						64.0	30.0		34	2.66					
6015	4-1	150													91.0			
6015	4-2	150													91.0			
6015	6-1	120	32.7				.49	.33	28.0	19.0		9	2.71		91.0			
6015	6CC			2.13	18.0													
6016B	6-1	40													34.0			
6016B	6-1	47													48.0			
6016B	6-1	68													53.0			
6016B	6-1	100													53.0			
6017	1-1	149		1.77	46.0										0			
6017	1-2	75	34.6				1.43	.59	27.0	17.0	3.90	10	2.61		2.3	.4	5.8	
6017	1-2	149			1.37	55.0												
6017	2-1	100													10.0	1.4	7.1	
6017	2-1	149			1.94	28.0												
6017	2-3	48													17.0			
6017	2-3	75														27.0	6.5	4.1
6017	2-3	100													10.0			
6017	2-3	139		1.98	25.0										29.0			
6017	3-1	149		2.00	23.0													
6017	4-1	123													25.0	5.7	4.4	
6017	4-1	143													22.0			

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS		
6017	4-1	149		2.01	23.0								24.0					
6017	4-2	131		2.04	20.0								10.0					
6017	4-2	150		1.95	21.0									14.0	4.3	3.2		
6017	4-3	25											19.0					
6017	4-3	47																
6017	4-3	67												17.0	5.0	3.2		
6017	4-3	100											36.0					
6017	4-3	127											53.0	11.0	4.8			
6017	4-3	149		1.86	24.0													
6017	5-1	38											31.0					
6017	5-1	110											10.0					
6017	5-1	136																
6017	6-2	0		1.94	30.0								41.0	20.0	21	2.70		
6017	6-2	141		1.84	32.0													
6017	6-2	150		1.84	34.0													
6017	7-1	45											65.0	27.0	38	2.68		
6017	7-1	55													3.0			
6017	7-1	70													36.0	5.7	6.3	
6017	8-1	90													21.0			
6017	8-1	115	22.4										35.0	17.0	18	2.67		
6017	8-1	150													67.0			
6017	9-1	100													48.0			
6017	9-1	134											37.0	14.0	23	2.69		
6018	6-2	25	31.8		.47	.32									2.72			
6018	6-2	91		1.69	17.0													
6019	1-1	46													.7			
6019	1-1	96	4.6												2.3	.5	4.6	
6019	1-1	141		1.49	91.0													
6019	1-2	45													2.7	1.1	2.5	
6019	1-2	115													1.9	.4	4.8	
6019	1-2	149		1.48	89.0													
6019	1CC		34.9										100.0	31.0	69			
6019	2-2	50														4.2		
6019	2-2	100													3.7	1.0	3.7	
6019	2-2	118	32.5										2.23	.69	99.0	44.0	0.80	55
6019	2-2	139		1.49	87.0													
6019	2-3	122	32.5										1.68	.63	89.0	37.0	0.46	52
6019	2-3	149		1.68	61.0													
6019	3-2	0		1.47	90.0													
6019	3-2	132		1.97	90.0													
6019	3-2	149		2.05	25.0													
6019	3-2	150		2.02	26.0													
6019	4-1	19														1.8	.4	4.5
6019	4-1	30	30.5															
6019	4-4	116											47.0	20.0	27	2.67		
6019	4CC			1.84	35.0													
6019	5-1	75														21.0		
6019	5-1	112														35.0		
6019	5CC			1.99	32.0													
6019	6CC			1.92	31.0													
6019	7-1	141		1.80	20.0													
6019	8-1	149			25.0													
6019B	1-2	100																
6019B	1-2	118																
6019B	1CC			1.44	54.0	1.37	.58						104.0	42.0	62	2.55		
6020	1-1	85																
6020	1-1	95																
6020	1CC			1.66	46.0													
6020	2-1	149		1.86	34.0													
6020	2-2	25	26.3										.79	.44	50.0	23.0	0.26	27
6020	2-2	37															31.0	
6020	2-2	47															15.0	
6020	2-2	140															18.0	
6020	2-2	149		2.02	30.0												12.0	
6020	2-3	0		1.94	30.0													
6020	2-3	140																
6020	2CC			1.87	33.0													
6020	3-2	47																
6020	3-2	110																
6020	3-2	115	23.4										.90	.47	53.0	25.0	0.32	28
6020																	2.67	

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS	
6020	3-2	125											62.0				
6020	3-2	140											40.0				
6020	3CC			1.68	34.0												
6020	4-2	15						59.0	35.0		24	2.70					
6020	4-2	50											40.0				
6020	4-2	90				.83	.45	46.0	26.0	0.25	20	2.70					
6020	4-2	100			1.88	31.0							38.0				
6020	4CC					1.94	28.0										
6020	5CC												52.0				
6020	6-1	60															
6020	6-1	72		5.8			.51	.34	37.0	17.0	0.10	20	2.68				
6020	6-1	85											60.0				
6020	6-1	129			2.05	19.0											
6021	1-1	149			1.70	68.0											
6021	1-2	149			1.78	49.0											
6021	1-3	10	30.8				1.31	.57	55.0	27.0		28	2.69				
6021	1-3	40												3.1	.1	31.0	
6021	1-3	75											42.0				
6021	1-3	100											45.0				
6021	1-3	110											50.0				
6021	1-3	115	30.8					34.0	18.0		16	2.74					
6021	1-3	129		2.06	22.0									57.0			
6021	2-1	149		1.69	57.0									57.0			
6021	2-2	135											59.0				
6021	2-2	149		2.01	23.0												
6021	2-3	5											57.0				
6021	2-3	48											57.0				
6021	2-3	90											55.0				
6021	2-3	100											20.0				
6021	2-3	125	32.1					44.0	22.0		22	2.72					
6021	2-3	135												32.0			
6021	2-3	143												25.0			
6021	2-3	150												34.0			
6021	2-4	3												29.0			
6021	2-4	48												32.0			
6021	2-4	70												23.0			
6021	2-4	100												48.0			
6021	2-4	106												80.0			
6021	2-4	128	32.1	1.95	25.0			38.0	21.0		17	2.67			57.0		
6021	2-4	130															
6021C	1-1	75												2.9	1.1	2.6	
6021C	1-1	125												4.2	.7	6.0	
6021C	1-1	139		1.79	46.0												
6021C	1-2	12	32.1	1.89	33.0	.53	.47	34.0	16.0		18	2.67			2.9	1.4	2.1
6021C	1-2	35															
6021C	1-2	103												56.0			
6021C	1-2	112	32.1			.53	.35	55.0	24.0	0.13	31	2.67				52.0	
6021C	1-2	122														75.0	
6021C	1-2	135		1.86	20.0												
6021C	2-1	149			1.81	43.0											
6021C	2-2	112				.60	.37	44.0	21.0	0.09	23	2.62					
6021C	3-1	118												24.0			
6021C	3-1	125												38.0			
6021C	3-1	149			1.88	36.0											
6021C	3-2	115	21.7											37	2.70		
6021C	6-1	100						55.0	18.0							15.0	
6021C	6-1	113	31.5			1.00	.50	44.0	18.0	0.73	26	2.70					
6021C	6-1	139		1.85	37.0			48.0	22.0		26	2.69					
6021C	7-1	38	31.4														
6021C	7-1	47												7.0			
6021C	8-3	27	31.5			1.31	.57	47.0	21.0	1.08	26	2.69					
6021C	8-3	149		1.75	49.0											5.0	
6021C	9-1	118															
6021C	9-1	149		1.89	37.0												
6021C	9-2	25	31.5			1.00	.50	50.0	24.0	0.50	26	2.70					
6021C	9-3	129		1.80	38.0											17.0	
6021C	10-1	91															
6021C	10-1	149		1.87	36.0												
6021C	10-2	5														29.0	

HOLE	SEC	CM	SAL	BLK	H2O	VDR	POR	LL	PL	LI	PI	SG	TOR	SSLU	SSLR	SENS
6021C	10-2	100				.96	.49	56.0	25.0	0.35	39	2.68	34.0			
6021C	10-2	127											8.0			
6021C	10-2	143											24.0			
6021C	11-1	114														
6021C	11-1	149				1.97	27.0									
6021C	11-2	4											27.0			
6021C	11-2	116											34.0			
6021C	11-2	142											40.0			
6021C	11-2	149				1.95	28.0									
6021C	11-3	5											31.0			
6021C	11-3	55											40.0			
6021C	11-3	90											31.0			
6021C	11-3	120						35.0	21.0							
6021C	12-1	149				1.88	39.0							14	2.73	
6021C	12-2	149				1.72	48.0									
6021C	12-3	48											9.0			
6021C	12-3	70				1.28	.56	40.0	21.0	1.42	19	2.67				
6021C	12-3	140											38.0			
6021C	13-1	130											29.0			
6021C	14-1	83											24.0			
6021C	14-1	125												34.0		
6021C	14-1	139				1.82	29.0									
6021C	15-1	142											57.0			
6021C	16-1	90											38.0			
6021C	16-1	149				1.80	23.0									
6021C	17-1	127											26.0			
6021C	18-1	133											22.0			
6021C	18-2	40											55.0			
6021C	18-2	139				1.81	37.0							46.0		
6021C	19-1	145														
6021C	19-2	47											73.0			
6021C	19-2	100											61.0			
6021C	19-2	103											56.0			
6021C	20-1	130											9.0			
6021C	20-1	149				1.93	22.0									
6021C	21-1	142											55.0			
6021C	21-2	40											61.0			
6021C	21-2	129				1.92	26.0									
6021C	23-1	110											18.0			
6021C	23-2	40											36.0			
6021C	23-2	140												39.0		
6021C	23-3	100												45.0		
6021C	24-1	90												38.0		
6021C	24-1	110												34.0		
6021C	26-1	130												17.0		
6021C	26-3	100												52.0		
6021C	26-4	100												62.0		
6021C	27-1	50												88.0		
6021C	27-1	80												91.0		
6021C	27-1	100												40.0		
6021C	28-1	115												75.0		
6021C	30-2	40												81.0		
6021C	32-1	80												91.0		

CHAPTER VII

ORGANIC CARBON, NITROGEN, AND CALCIUM CARBONATE CONTENTS

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A method described by Kolpack and Bell (1968) was used to obtain the organic carbon results. The percent nitrogen was determined by volumetric determination of aminoid nitrogen using the micro Kjeldahl method (Kabat and Mayer, 1948). Calcium carbonate was determined by a method devised by P. Lohmann (1971, unpub. data).

Explanation of Headings

ORCAR	Total carbon measured in percent, after the removal of calcium carbonate
NITR%	Nitrogen content in percent
CARNIT	Ratio of organic carbon content to nitrogen content.
CALCAR	Calcium Carbonate content in percent.

HOLE	SEC	CM	ORCAR	NITR%	CARNIT	CALCAR
6002	1-1	6	.160	.030	5.30	8.210
6002	2-1	11	1.000	.080	12.70	18.790
6002	4-6	137	5.500			24.110
6002	7-2	117	2.750			18.360
6002	8-3	137	3.420	.530	6.80	18.300
6002	9-6	137	1.370	.190	7.20	35.950
6002	10-2	113	1.680	.320	5.20	37.630
6002	11-2	113	1.650	.270	6.10	47.960
6002	15-2	134	1.080	.140	7.80	71.700
6002	17-2	87	.620	.100	6.20	86.850
6002	17-3	121	.660	.100	6.30	38.820
6002	19-2	105	.200	.050	4.00	82.410
6002	23-2	21	.250	.040	6.20	88.790
6002	24-1	111	.520	.090	5.30	90.900
6002	28-1	129	.200	.040	5.00	54.710
6004	1-2	127	.250	.050	5.00	48.170
6004	2-2	107	.230	.080	3.10	66.790
6004	3-1	132	.220	.010	22.00	70.710
6004	5-2	137	.360	.030	12.20	74.080
6004	5-4	99	.360	.030	10.60	50.080
6004	6-2	75	.360			82.190
6004	6-4	125	.400	.020	20.00	31.350
6004	7-1	125	.460	.030	13.30	65.200
6004	7-3	125	.400	.040	10.10	56.530
6004	7-6	125	.580	.050	11.70	54.550
6004	9-1	125	.450	.020	18.00	59.310
6004	9-4	125	.340	.020	17.70	76.200
6004	11-1	112	.740	.090	8.30	55.800
6004	11-4	112	.700	.070	9.40	62.260
6004	14-6	5				73.000
6004B	2-1	70	.350	.020	17.50	83.580
6004B	4-1	110	.980	.160	6.10	43.650
6004B	7-1	80	.370	.030	10.60	35.480
6004B	12-2	70	.510		5.10	54.470
6004B	14-2	97	.250	.050	4.60	34.270
6004B	15-1	99	.400	.050	8.10	35.700
6004B	19-6	80	.570	.060	9.60	46.580
6005	2-1	25	.110	.010	11.00	1.090
6005	5-1	145	.950	.070	12.70	17.360
6005	6-1	140	.340	.010	34.00	24.650
6006	3-2	75	.080			11.930
6006	3-4	25	.050	.010	5.00	10.210
6006	5-2	75	.060		15.00	9.710
6006	6-6	65	.240	.030	6.90	3.730

HOLE	SEC	CM	ORCAR	NITR%	CARNIT	CALCAR
6006	9CC		.030	.020	3.00	84.250
6007	2-2	125	.080		8.50	
6007	4-5	120	.360	.060	5.50	14.390
6007	5-2	115	.590	.070	8.40	2.720
6007	6-2	124	.380	.060	6.30	7.130
6007	8-1	135	.110	.030	3.30	9.620
6007	9-1	125	.460	.090	5.10	3.740
6007B	1-1	130	.410	.060	6.90	9.410
6007B	5-1	130	.650	.130	5.00	3.940
6007B	10-1	133	.310	.030	8.90	2.070
6007B	10-5	145	.240	.060	3.80	13.570
6007B	18-3	79	.040	.010	4.00	16.660
6008	1-2	123	.300	.030	10.00	12.210
6008	1-4	125	.520	.080	6.60	22.800
6008	3-1	136	.480	.050	9.70	8.930
6008	4-2	105	.390	.060	6.00	13.620
6008	5-1	125	.080	.030	2.30	17.440
6008	6-1	115	.170	.040	3.90	11.630
6008	10-1	115	.100	.030	3.30	6.900
6008	12-2	25	.090	.020	4.70	17.250
6008	13-1	125	.080	.070	1.10	30.280
6008	13-2	120	.100	.020	5.00	19.680
6009B	1-1	81	.590	.020		7.010
6009B	3-1	125	.050	.020	2.50	3.400
6009B	4-1	115	.510	.050	9.40	11.870
6009B	8-3	115	.460	.060	7.10	3.370
6009B	9-2	65	.520	.080	6.10	3.020
6009B	10-2	105	.730	.110	6.60	7.120
6009B	11-1	105	.610	.080	7.20	1.470
6009B	14-4	97	.630	.110	5.50	6.430
6009B	16-1	120	.070	.010	7.50	2.890
6009B	19-1	91	.040	.010	4.00	1.790
6009B	20-1	130	.850	.090	9.00	17.460
6009B	23-1	110	.050	.010	5.00	2.290
6009B	27-1	40	.070	.050		2.860
6009B	30-2	51	.840			2.600
6009B	31-1	100	.020	.050		5.390
6010	2-2	119	.440	.080	5.50	21.150
6010	3-2	105	.430	.090	4.60	21.620
6010	4-2	105	.390	.060	6.00	20.990
6010	5-1	85	.460	.090	5.10	7.410
6010	6-2	2	.320	.090	3.60	15.310
6010	7-2	105	.060	.050		1.960
6010	7-4	125	.260	.050	4.70	16.480

HOLE	SEC	CM	ORCAR	NITR%	CARNIT	CALCAR
6010	8-1	100	.310	.110	2.70	14.920
6010	9-2	85	.270	.060	5.40	10.150
6010	11-2	75	.030	.010	3.00	.630
6010	13-2	111	.300	.070	4.00	3.650
6010	16-2	90	.330	.080	4.20	2.680
6010	17-1	140	.300			4.000
6010	19-1	50	.290	.070	4.20	4.110
6010	21-2	100	.440	.100	4.40	1.850
6010	25-1	100	.780	.110	6.80	1.640
6010	26-2	100	.620	.210	2.90	4.490
6010	27-1	75	.070	.020	3.50	1.920
6010	27-1	130	.800	.110	7.30	2.810
6011	23-1	130	.160	.040	4.00	3.660
6011	26-2	70	.050	.030		3.610
6011	28-6	69	1.820	.280		5.430
6012	1-5	95	.370	.400		3.120
6012	2-6	75	.420	.640		2.930
6012	3-2	95	.410	.520		2.600
6012	3-4	105	.590	.440		3.270
6012	3-6	85	.950	.520		2.340
6012	4-3	99	.460	.790		3.580
6012	5-4	105	.590	.980		2.500
6012	6-1	105	.480	.060	8.10	4.500
6012	8-2	105	.800	.100	8.00	1.770
6012	9-2	115	.820	.080	9.60	1.100
6012	12-6	50	.650	.070	9.40	1.400
6012	18-4	124	.470	.050	6.30	2.550
6012	25-4	50	.350	.050	7.10	2.860
6012	28-2	50	.490	.070	7.00	9.410
6012	33-4	35	.520	.070	7.40	2.430
6012	33-4	97	.250	.040	5.70	9.330
6013	4-1	135	.290	.060	4.80	3.490
6013	5-2	2	.300	.050	6.00	3.520
6013	6-2	125	.280	.060	4.80	2.040
6013	6-3	85	.340	.070	4.90	2.400
6013	7-3	75	.410	.120	5.50	3.840
6013	7-5	35	.350	.090	3.90	7.580
6013	7-6	138	.390	.090	4.40	6.920
6013	8-2	105	.330	.080	4.10	4.090
6013	11-2	110	.060	.010	6.50	3.910
6013	11-4	115	.080	.020		3.860
6013	15-1	110	.290	.080	3.70	6.090
6013B	16-2	12	.560	.060	5.10	7.790
6013B	18-2	21	.610	.050	6.40	7.680

HOLE	SEC	CM	ORCAR	NITR%	CARNIT	CALCAR
6013B	22-2	88	.430	.080	5.30	5.610
6013B	26-1	145	.700	.120	5.80	7.270
6013B	28-1	110	.500	.080	6.20	6.090
6013B	31-1	140	.270	.050	5.40	2.850
6014	2-3	116	.390			4.730
6014	2-3	139	.410	.070	5.90	12.590
6014	6-2	85	.060	.040		
6014	7-2	85	.300	.050	6.10	1.630
6014	7-4	81	.290	.040	6.40	
6014	9-1	100	.080	.030		19.210
6014	10-1	120	.530	.090	5.90	1.180
6015	2-1	143	.160	.030		.050
6015	4-1	125	.050	.100		2.350
6015	6-1	120	.450	.090	5.10	3.610
6015	6-1	125	.190	.030	6.50	2.790
6016B	1-1	130	.060	.030		3.130
6016B	2-1	140	.080	.040		3.580
6016B	6-1	75	.900	.110	7.80	1.150
6017	1-2	75	.360	.040	9.00	1.900
6017	2-3	60	.400	.050	6.70	3.400
6017	5-1	136	.050	.050	9.20	
6017	7-1	45	.780	.080	9.80	
6017	8-1	145	.410	.070	5.90	
6017	9-1	134	.460	.060	7.60	
6018	6-2	25	.170	.040	6.00	
6019	1-1	150	2.070	.370	5.50	3.820
6019	2-2	118	1.820			1.840
6019	2-3	122	1.130			.970
6019	3-1	140	1.830	.350	5.30	1.220
6019	4-1	30	.780	.130	6.00	2.030
6019	4-2	73	.320	.050	6.40	1.030
6019	4-6	41	.730	.110	6.60	2.700
6019	5-1	81	.580			
6019	7-1	104		.190		
6019	8-1	30	.210			90.730
6019B	1-2	118				1.640
6020	1-1	85	.610	.090	6.80	
6020	2-2	25	.310	.050	6.30	2.440
6020	3-2	118	.490	.060	8.20	.060
6020	4-2	15	.600	.080	7.10	6.910
6020	4-2	40	.840	.100	8.40	1.740
6020	6-1	72	.410	.080	5.10	2.360
6021	1-3	115	.390	.070	5.20	6.520
6021	2-3	125	.460	.070	6.60	5.680

HOLE	SEC	CM	ORCAR	NITR%	CARNIT	CALCAR
6021	2-4	50	.400	.060	6.70	5.640
6021C	1-2	12	.540	.080	6.70	8.720
6021C	1-2	112	.340	.050	6.80	5.060
6021C	2-2	112	.470	.070	6.70	4.140
6021C	3-2	115	.480	.070	6.90	3.970
6021C	6-1	113	.390	.060	6.60	6.350
6021C	7-1	38	.390	.050	7.20	.080
6021C	8-3	27	.400	.060	6.70	.080
6021C	9-2	25	.500	.070	7.20	.160
6021C	10-2	127	.470	.090	5.20	3.950
6021C	11-3	120	.310	.080	3.60	12.560
6021C	12-3	70	.360	.030	10.40	11.390
6021C	14-1	110	.460	.050	8.40	3.070
6021C	17-1	100	.430	.030	14.50	2.600
6021C	21-2	100	.370	.060	6.20	4.480
6021C	26-3	75	.680	.090	7.60	6.300
6021C	29-1	100	.800	.150	5.30	6.340
6021C	32-1	69	.410	.070	5.50	12.910

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APPENDIX I -- APPROXIMATE DEPTH BELOW SEA FLOOR

The introduction to this report contains a discussion of the uncertainty of sample depth resulting from conditions inherent in the drilling and coring operations. This appendix contains a listing of the nominal and maximum depths (in meters) below the sea floor for most of the samples. The actual location of a given sample may occur anywhere within this range. However, in agreement with the practices established in the Deep Sea Drilling Project Initial Reports, the nominal depths should be used as the official sample depths. The equations used to determine these depths are:

$$DN = CORTOP + ((SEC - 1)1.5) + ((CM).01) - (SECREC(1.5)) - RECOV$$

$$DM = CORBOT - (SECREC - SEC + 1) + ((CM).01)$$

Where:

DN	Nominal Depth (m)
DM	Maximum Depth (m)
CORTOP	Depth of penetration to top of core (m)
CORBOT	Depth of penetration to bottom of core (m)
SEC	Section Number
CM	Depth of sample in the section
SECREC	Number of sections recovered in core
RECOV	Recovery in core (m)

The CORTOP, CORBOT, SECREC and RECOV values can be recovered from tables in Hathaway and others (1976). The values in the CM column are corrected; see APPENDIX II.

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6002	1	1	126	.06	7.96
6002	1	1	130	.10	8.00
6002	2	1	125	8.25	17.15
6002	2	1	128	8.28	17.18
6002	2	1	131	8.31	17.21
6002	3	1	5	17.55	17.55
6002	3	1	25	17.75	17.75
6002	3	1	50	18.00	18.00
6002	3	2	49	19.49	19.49
6002	3	3	5	20.55	20.55
6002	3	3	70	21.20	21.20
6002	3	4	20	22.20	22.20
6002	3	5	5	23.55	23.55
6002	3	5	40	23.90	23.90
6002	3	5	115	24.65	24.65
6002	3	5	125	24.75	24.75
6002	3	6	113	26.13	26.13
6002	4	1	49	27.09	27.49
6002	4	1	85	27.45	27.85
6002	4	1	91	27.51	27.91
6002	4	2	10	28.20	28.60
6002	4	3	45	30.05	30.45
6002	4	4	44	31.54	31.94
6002	4	5	5	32.65	33.05
6002	4	6	5	34.15	34.55
6002	4	6	137	35.47	35.87
6002	5	1	105	36.05	40.65
6002	5	1	110	36.10	40.70
6002	6	1	112	41.22	48.12
6002	6	1	131	41.41	48.31
6002	6	2	30	41.90	48.80
6002	7	1	135	50.55	57.45
6002	7	2	60	51.30	58.20
6002	7	2	117	51.87	58.77
6002	7	2	145	52.15	59.05
6002	8	1	70	59.40	65.40
6002	8	1	75	59.45	65.45
6002	8	2	5	60.25	66.25
6002	8	3	5	61.75	67.75
6002	8	3	137	63.07	69.07
6002	9	1	15	69.25	69.75
6002	9	1	134	70.44	70.94
6002	9	2	10	70.70	71.20
6002	9	2	80	71.40	71.90
6002	9	3	5	72.15	72.65
6002	9	4	5	73.65	74.15
6002	9	5	5	75.15	75.65
6002	9	6	5	76.65	77.15
6002	9	6	137	77.97	78.47
6002	10	2	5	78.95	86.65
6002	10	2	30	79.20	86.90
6002	10	2	113	80.03	87.73
6002	11	1	143	86.63	94.73
6002	11	1	113	87.83	95.93
6002	11	2	5	88.25	96.35

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6002	11	2	113	89.33	97.43
6002	12	1	130	97.90	104.10
6002	12	1	140	98.00	104.20
6002	12	2	5	98.15	104.40
6002	12	2	50	98.60	104.80
6002	12	3	5	99.70	105.90
6002	13	1	50	107.40	115.70
6002	13	1	87	107.80	116.10
6002	14	1	88	117.10	118.10
6002	14	6	1	123.70	124.70
6002	14	6	30	124.00	125.00
6002	14	6	150	125.20	126.20
6002	15	1	140	126.60	131.00
6002	15	2	134	128.00	132.40
6002	15	3	84	129.00	133.40
6002	15	4	11	129.80	134.20
6002	16	1	41	136.00	141.00
6002	16	1	71	136.30	141.30
6002	16	2	5	137.10	142.10
6002	16	2	43	137.50	142.50
6002	16	2	100	138.10	143.10
6002	16	3	71	139.30	144.30
6002	16	2	100	138.10	143.10
6002	16	3	81	139.40	144.40
6002	17	1	130	146.10	150.10
6002	17	2	87	147.20	151.20
6002	17	3	121	149.00	153.00
6002	17	3	140	149.20	153.20
6002	19	1	146	164.40	169.20
6002	19	2	105	165.40	170.30
6002	20	2	81	175.90	178.00
6002	20	3	43	177.00	179.10
6002	20	3	91	177.50	179.60
6002	22	1	50	192.90	201.10
6002	22	1	80	193.20	201.40
6002	23	2	21	203.80	208.70
6002	23	3	85	206.00	210.90
6002	24	1	111	211.70	220.90
6002	25	CC		221.40	230.60
6002	27	CC		240.10	249.50
6002	28	1	129	249.90	258.90
6002	32	CC		287.60	297.10
6002	33	1	17	297.40	303.50
6002	33	1	72	297.90	304.00
6002	33	1	88	298.10	304.20
6004	1	1	104	.34	7.14
6004	1	1	130	.60	7.40
6004	1	1	150	.80	7.60
6004	1	2	10	.90	7.70
6004	1	2	127	2.07	8.87
6004	2	2	107	13.17	14.77
6004	2	2	135	13.45	15.05
6004	2	2	150	13.60	15.20
6004	3	1	103	16.23	24.23
6004	3	1	132	16.52	24.52

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6004	3	1	150	16.70	24.70
6004	4	1	140	25.00	29.00
6004	4	3	89	27.49	31.49
6004	4	3	150	28.10	32.10
6004	4	4	100	29.10	33.10
6004	4	4	110	29.20	33.20
6004	4	4	150	29.60	33.60
6004	5	1	91	34.51	38.21
6004	5	2	137	36.47	40.17
6004	5	4	99	39.09	42.79
6004	5	4	135	39.45	43.15
6004	5	4	150	39.60	43.30
6004	6	1	61	43.91	44.31
6004	6	2	75	45.55	45.95
6004	6	3	20	46.50	46.90
6004	6	3	150	47.80	48.20
6004	6	4	125	49.05	49.45
6004	6	5	5	49.35	49.75
6004	6	5	135	50.65	51.05
6004	6	5	150	50.80	51.20
6004	6	6	5	50.85	51.25
6004	6	6	144	52.24	52.64
6004	7	1	107	53.47	54.17
6004	7	1	125	53.65	54.35
6004	7	1	150	53.90	54.60
6004	7	2	5	53.95	54.65
6004	7	2	150	55.40	56.10
6004	7	3	110	56.50	57.20
6004	7	3	125	56.65	57.35
6004	7	3	150	56.90	57.60
6004	7	4	40	57.30	58.00
6004	7	4	110	58.00	58.70
6004	7	4	150	58.40	59.10
6004	7	5	47	58.87	59.57
6004	7	5	150	59.90	60.60
6004	7	6	110	61.00	61.70
6004	7	6	125	61.15	61.85
6004	7	6	150	61.40	62.10
6004	8	1	120	62.70	69.70
6004	8	2	144	64.44	71.44
6004	9	1	58	71.98	72.78
6004	9	1	80	72.20	73.00
6004	9	1	125	72.65	73.45
6004	9	4	125	77.15	77.95
6004	9	6	110	80.00	80.80
6004	10	1	121	81.71	85.81
6004	10	2	145	83.45	87.55
6004	10	3	5	83.55	87.65
6004	10	3	50	84.00	88.10
6004	10	3	80	84.30	88.40
6004	10	3	105	84.55	88.65
6004	10	3	150	85.00	89.10
6004	10	4	130	86.30	90.40
6004	10	4	145	86.45	90.55
6004	10	4	150	86.50	90.60

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6004	11	1	55	91.15	91.55
6004	11	1	112	91.72	92.12
6004	11	2	90	93.00	93.40
6004	11	3	90	94.50	94.90
6004	11	4	112	96.22	96.62
6004	11	5	95	97.55	97.95
6004	11	6	100	99.10	99.50
6004	11	6	150	99.50	100.00
6004	12	1	118	100.50	104.60
6004	12	3	85	103.20	107.30
6004	12	4	150	105.30	109.40
6004	13	2	25	110.40	111.60
6004	13	2	82	111.00	112.10
6004	13	3	64	112.30	113.40
6004	13	4	115	114.30	115.40
6004	13	5	105	115.70	116.90
6004	13	6	70	116.90	118.00
6004	13	6	80	117.00	118.10
6004	13	6	150	117.70	118.80
6004	14	2	37	119.40	121.10
6004	14	2	59	119.60	121.30
6004	14	3	74	121.20	122.90
6004	14	4	78	122.80	124.50
6004	14	5	56	124.10	125.90
6004	14	6	5	125.10	126.80
6004	14	6	47	125.50	127.20
6004	14	6	100	126.00	127.70
6004	15	1	110	129.40	130.50
6004	15	2	110	130.90	132.00
6004	15	3	110	132.40	133.50
6004	15	4	110	133.90	135.00
6004B	2	1	40	147.90	148.70
6004B	2	1	70	148.20	149.00
6004B	2	2	110	150.10	150.90
6004B	2	3	110	151.60	152.40
6004B	2	4	110	153.10	153.90
6004B	2	5	110	154.60	155.40
6004B	2	6	6	155.10	155.90
6004B	2	6	80	155.80	156.60
6004B	2	6	132	156.30	157.10
6004B	2	6	150	156.50	157.30
6004B	4	1	110	157.00	175.40
6004B	4	1	145	157.40	175.80
6004B	5	1	117	158.30	185.00
6004B	5	1	132	158.40	185.10
6004B	5	1	141	158.50	185.20
6004B	5	CC		158.60	185.30
6004B	6	2	40	158.70	189.20
6004B	6	5	145	159.80	194.80
6004B	7	1	80	159.70	196.60
6004B	7	6	5	160.40	203.30
6004B	7	6	65	160.00	203.90
6004B	8	6	69	161.60	210.40
6004B	10	1	135	164.40	218.80
6004B	11	1	54	169.30	222.40

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6004B	11	1	75	219.50	222.60
6004B	12	2	70	225.00	232.10
6004B	13	2	135	236.20	240.60
6004B	14	2	97	244.70	245.60
6004B	14	6	145	251.20	252.10
6004B	15	1	60	252.60	260.30
6004B	15	1	99	253.00	260.70
6004B	16	3	93	263.90	270.10
6004B	16	3	145	264.50	270.70
6004B	19	1	46	290.20	290.20
6004B	19	1	20	289.90	289.90
6004B	19	1	83	290.50	290.50
6004B	19	1	145	291.10	291.20
6004B	19	2	80	292.00	292.00
6004B	19	6	80	298.00	298.00
6004B	20	1	102	299.00	307.40
6004B	20	1	133	299.30	307.70
6004B	20	1	145	299.50	307.90
6005	2	1	35	9.55	16.85
6005	2	1	70	9.90	17.20
6005	4	2	92	29.72	37.52
6005	4	2	110	29.90	37.70
6005	5	1	145	38.25	47.55
6005	6	1	140	47.50	44.50
6005B	2	2	20	29.90	36.80
6005B	2	2	30	30.00	36.90
6005B	2	2	130	31.00	37.90
6006	3	2	75	26.15	28.55
6006	3	4	25	28.65	31.05
6006	5	CC		47.90	51.10
6006	5	2	75	44.15	47.45
6006	6	3	139	53.59	56.09
6006	6	6	30	57.00	59.50
6006	6	6	57	57.27	59.77
6006	6	6	65	57.35	59.85
6006	8	CC		70.50	79.80
6006	9	CC		79.90	89.30
6007	1	1	1	.99	7.31
6007	2	2	117	9.97	15.57
6007	2	2	125	10.05	15.65
6007	2	3	100	11.30	16.90
6007	3	5	145	23.75	24.35
6007	3	6	19	23.99	24.59
6007	3	6	150	33.80	35.40
6007	4	5	120	32.60	35.10
6007	4	5	150	32.90	35.40
6007	5	1	38	35.68	40.68
6007	5	1	150	36.80	41.80
6007	5	2	75	37.55	42.55
6007	5	2	115	37.95	42.95
6007	5	2	150	38.30	43.30
6007	5	3	19	38.49	43.49
6007	6	1	120	44.90	51.00
6007	6	2	90	46.10	52.20
6007	6	2	124	46.44	52.54

HOLE	CORE	SEC.	CM	NOM. DEPTH	MAX. DEPTH
6007	6	2	150	46.70	52.80
6007	6	3	80	47.50	53.60
6007	6	3	100	47.70	53.80
6007	6	3	145	48.15	54.25
6007	7	1	130	54.50	63.50
6007	8	1	110	66.90	72.80
6007	8	1	135	67.15	73.05
6007	8	1	145	67.25	73.15
6007	9	1	125	74.05	82.65
6007	10	1	129	83.29	92.19
6007	10	1	145	83.45	92.35
6007	11	2	11	93.11	100.40
6007B	1	1	120	121.00	130.20
6007B	1	1	130	121.10	130.30
6007B	1	1	150	121.30	130.50
6007B	2	2	118	132.90	137.50
6007B	2	2	130	133.00	137.60
6007B	2	3	105	134.20	138.80
6007B	2	3	150	134.70	139.30
6007B	3	1	105	139.30	146.40
6007B	4	2	57	149.20	155.20
6007B	4	3	70	150.80	155.80
6007B	4	3	80	150.90	156.90
6007B	4	3	147	151.60	157.60
6007B	5	CC		158.00	167.60
6007B	5	1	130	157.80	167.40
6007B	5	1	140	157.90	167.50
6007B	6	2	55	169.60	175.10
6007B	7	1	112	181.60	186.10
6007B	7	1	145	182.00	186.50
6007B	8	1	140	186.80	194.70
6007B	8	2	30	187.20	195.10
6007B	8	2	110	188.00	195.90
6007B	10	1	133	206.10	207.80
6007B	10	2	110	207.40	209.10
6007B	10	3	45	208.30	210.00
6007B	10	4	100	210.30	212.00
6007B	10	5	50	211.30	213.00
6007B	10	5	145	212.30	214.00
6007B	10	6	50	212.80	214.50
6007B	10	6	100	213.30	215.00
6007B	10	6	150	213.80	215.50
6007B	11	2	20	217.00	218.00
6007B	11	2	70	217.50	218.50
6007B	11	2	110	217.90	218.90
6007B	11	3	86	219.20	220.20
6007B	11	5	145	222.80	223.80
6007B	12	3	132	229.80	230.00
6007B	12	4	145	231.50	231.70
6007B	12	5	70	232.20	232.40
6007B	15	1	95	253.60	261.90
6007B	18	3	79	284.90	290.40
6008	1	1	100	.20	4.10
6008	1	2	55	1.25	5.15
6008	1	2	63	1.33	5.23

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6008	1	2	123	1.93	5.83
6008	1	2	149	2.19	6.09
6008	1	3	99	3.19	7.09
6008	1	3	150	3.70	7.60
6008	1	4	125	4.95	8.85
6008	1	4	150	5.20	9.10
6008	2	1	150	10.10	18.20
6008	3	1	136	19.26	25.76
6008	3	1	145	19.35	25.85
6008	3	2	11	19.51	26.01
6008	4	2	105	29.55	36.15
6008	4	2	150	30.00	36.60
6008	5	1	90	40.30	46.70
6008	5	1	125	40.65	47.05
6008	6	1	115	49.05	57.85
6008	6	1	150	49.40	58.20
6008	8	1	130	62.50	71.70
6008	9	1	127	72.57	79.67
6008	9	1	143	72.73	79.83
6008	9	2	54	73.34	80.44
6008	9	2	150	74.30	81.40
6008	10	1	115	81.95	90.45
6008	10	CC		82.30	90.80
6008	11	2	90	93.20	99.70
6008	12	2	25	100.90	108.40
6008	12	2	129	101.90	109.50
6008	13	1	50	110.30	117.00
6008	13	1	125	111.00	117.80
6008	13	2	120	112.50	119.20
6009	1	1	135	.15	8.95
6009	1	1	143	.23	9.03
6009	1	1	150	.30	9.10
6009	2	1	150	9.70	18.30
6009	3	2	150	20.10	25.90
6009	3	3	4	20.14	25.94
6009	3	3	50	20.60	26.40
6009	3	3	131	21.41	27.21
6009	3	3	150	21.60	27.40
6009	5	CC		38.40	46.30
6009	6	1	127	46.37	55.57
6009B	1	1	81	.41	6.91
6009B	1	1	112	.72	7.22
6009B	1	1	100	.50	7.10
6009B	1	1	141	1.01	7.51
6009B	1	1	149	1.09	7.59
6009B	2	1	125	8.45	13.75
6009B	3	CC		17.20	24.70
6009B	3	1	125	15.45	22.95
6009B	3	1	147	15.67	23.17
6009B	3	2	60	16.30	23.80
6009B	4	1	115	25.35	32.25
6009B	4	1	150	25.70	32.60
6009B	4	2	48	25.18	33.08
6009B	4	2	139	27.09	33.99
6009B	4	2	150	27.20	34.10

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
60098	5	CC		35.70	43.60
60098	5	1	9	34.29	42.19
60098	5	1	149	35.69	43.59
60098	6	CC		44.50	53.00
60098	8	CC		66.10	72.20
60098	8	1	146	63.06	69.16
60098	8	1	150	63.10	69.20
60098	8	2	9	63.19	69.29
60098	8	2	150	64.60	70.70
60098	8	3	48	65.08	71.18
60098	8	3	115	65.75	71.85
60098	8	3	150	66.10	72.20
60098	9	CC		74.10	81.70
60098	9	1	120	72.30	79.90
60098	9	2	48	73.08	80.68
60098	9	2	65	73.25	80.85
60098	9	2	150	74.10	81.70
60098	10	CC		85.10	91.10
60098	10	2	105	83.15	89.15
60098	10	2	150	83.60	89.60
60098	10	3	47	84.07	90.07
60098	10	3	150	85.10	91.10
60098	11	1	105	91.75	98.65
60098	11	1	145	92.15	99.05
60098	11	1	150	92.20	99.10
60098	11	2	99	93.19	100.10
60098	11	2	150	93.70	100.60
60098	12	1	80	100.90	102.10
60098	12	1	100	101.10	102.30
60098	12	2	100	102.60	103.80
60098	12	3	100	104.10	105.30
60098	12	4	17	104.80	106.00
60098	12	4	150	106.10	107.30
60098	12	5	46	106.60	107.80
60098	12	5	150	107.60	108.80
60098	12	6	52	108.10	109.30
60098	12	6	150	109.10	110.30
60098	13	CC		111.50	119.80
60098	13	1	57	110.60	118.90
60098	13	1	72	110.70	119.00
60098	13	1	140	111.40	119.70
60098	14	CC		126.40	129.20
60098	14	1	129	120.20	123.00
60098	14	1	140	120.30	123.10
60098	14	2	100	121.40	124.20
60098	14	3	47	122.40	125.20
60098	14	4	46	123.90	126.70
60098	14	4	97	124.40	127.20
60098	14	5	47	125.40	128.20
60098	15	1	100	130.20	135.20
60098	15	2	100	131.70	136.70
60098	15	3	61	132.80	137.80
60098	16	1	120	139.30	147.80
60098	19	1	38	167.10	175.40
60098	19	1	121	167.90	176.20

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
60098	20	CC		176.80	185.60
60098	20	1	130	176.60	185.40
60098	21	2	61	187.20	192.60
60098	21	2	100	187.60	193.00
60098	21	3	8	188.20	193.60
60098	21	3	12	188.20	193.60
60098	22	CC		197.40	204.50
60098	23	1	110	205.00	212.10
60098	23	2	70	206.10	213.20
60098	24	1	120	214.30	223.40
60098	24	1	145	214.60	223.70
60098	27	1	40	243.20	249.20
60098	27	1	47	243.30	249.30
60098	27	1	60	243.40	249.40
60098	27	1	135	244.20	250.10
60098	27	2	22	244.50	250.50
60098	27	2	47	244.80	250.80
60098	27	2	100	245.30	251.30
60098	27	2	129	245.60	251.60
60098	28	1	100	252.20	259.50
60098	28	2	41	253.10	260.40
60098	28	2	100	253.70	261.00
60098	29	1	142	262.50	270.90
60098	30	1	150	272.50	278.90
60098	30	2	51	273.00	279.40
60098	30	2	70	273.20	279.60
60098	30	2	150	274.00	280.40
60098	31	1	100	281.50	288.20
60098	31	1	111	281.60	288.30
60098	31	2	55	282.60	289.30
60098	32	1	122	291.40	299.50
6010	1	CC		3.40	8.20
6010	1	1	150	.40	5.20
6010	1	2	119	1.59	6.39
6010	1	2	150	1.90	6.70
6010	1	3	80	2.70	7.50
6010	1	3	150	3.40	8.20
6010	2	CC		10.60	16.80
6010	2	1	119	8.79	14.99
6010	2	1	149	9.09	15.29
6010	2	2	100	10.10	16.30
6010	2	2	119	10.29	16.49
6010	2	2	149	10.59	16.79
6010	3	CC		18.90	25.20
6010	3	1	134	17.24	24.54
6010	3	1	150	17.40	24.70
6010	3	2	20	17.60	24.90
6010	3	2	105	18.45	25.75
6010	3	2	149	18.89	26.19
6010	3	2	150	18.90	26.20
6010	4	1	140	26.40	34.10
6010	4	2	105	27.55	35.25
6010	4	2	149	27.99	35.69
6010	5	CC		36.90	45.10
6010	5	1	85	36.25	44.45

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6010	5	1	100	36.40	44.60
6010	5	1	150	36.90	45.10
6010	6	1	144	45.74	51.84
6010	6	2	2	45.82	51.92
6010	6	2	19	45.99	52.09
6010	6	2	150	47.30	53.40
6010	6	3	143	48.73	54.83
6010	6	3	150	48.80	54.90
6010	7	CC		61.10	64.30
6010	7	2	105	57.65	60.85
6010	7	3	100	59.10	62.30
6010	7	3	120	59.30	62.50
6010	7	3	150	59.60	62.80
6010	7	4	47	60.07	63.27
6010	7	4	124	60.84	64.04
6010	7	4	125	60.85	64.05
6010	7	4	140	61.00	64.20
6010	7	4	150	61.10	64.30
6010	8	CC		67.30	73.80
6010	8	1	100	65.30	71.80
6010	8	2	29	66.09	72.59
6010	9	CC		77.20	83.20
6010	9	1	136	74.06	80.06
6010	9	2	85	75.05	81.05
6010	9	3	47	76.17	82.17
6010	9	3	150	77.20	83.20
6010	10	1	120	83.80	92.40
6010	11	1	124	92.74	99.14
6010	11	2	75	93.75	100.10
6010	11	2	144	94.44	100.80
6010	11	2	150	94.50	100.90
6010	11	3	47	94.97	101.40
6010	11	3	141	95.91	102.30
6010	12	1	130	102.90	108.70
6010	12	2	47	103.60	109.40
6010	12	2	100	104.10	109.90
6010	12	2	150	104.60	110.40
6010	12	3	47	105.10	110.90
6010	12	3	54	105.10	110.90
6010	12	3	150	106.10	111.90
6010	13	1	123	113.00	119.50
6010	13	1	150	113.30	119.80
6010	13	2	100	114.30	120.80
6010	13	2	111	114.40	120.90
6010	13	2	140	114.70	121.20
6010	14	2	100	122.60	124.30
6010	14	2	150	123.10	124.80
6010	14	3	92	124.00	125.70
6010	14	3	100	124.10	125.80
6010	14	3	150	124.60	126.30
6010	14	4	100	125.60	127.30
6010	14	4	150	126.10	127.80
6010	14	5	47	126.60	128.30
6010	14	5	135	127.40	129.10
6010	14	5	150	127.60	129.30

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6010	14	5	45	128.10	129.80
6010	14	6	90	128.50	130.20
6010	14	6	140	129.00	130.70
6010	15	1	120	131.40	140.20
6010	16	1	65	140.90	144.40
6010	16	1	120	141.50	144.90
6010	16	2	90	142.70	146.10
6010	16	2	100	142.80	146.20
6010	16	2	150	143.30	146.70
6010	16	3	90	144.20	147.60
6010	16	3	150	144.80	148.20
6010	16	4	46	145.30	148.70
6010	16	4	139	146.20	149.60
6010	17	1	140	149.80	159.30
6010	18	1	90	159.40	168.00
6010	18	1	100	159.50	168.10
6010	19	1	25	169.00	169.00
6010	19	1	40	169.10	169.10
6010	19	1	50	169.20	169.20
6010	19	1	150	170.20	170.20
6010	19	2	47	170.70	170.70
6010	19	2	150	171.70	171.70
6010	19	3	47	172.20	172.20
6010	19	3	150	173.20	173.20
6010	19	4	100	174.20	174.20
6010	19	4	150	174.70	174.70
6010	19	5	47	175.20	175.20
6010	19	5	150	176.20	176.20
6010	19	6	100	177.20	177.20
6010	19	6	130	177.50	177.50
6010	19	6	139	177.60	177.60
6010	20	1	140	178.10	179.90
6010	20	2	150	179.70	181.50
6010	20	3	100	180.70	182.50
6010	20	3	120	180.90	182.70
6010	20	3	150	181.20	183.00
6010	20	4	30	181.50	183.30
6010	20	4	150	182.70	184.50
6010	20	5	12	182.80	184.60
6010	20	5	50	183.20	185.00
6010	20	5	150	184.20	186.00
6010	20	6	47	184.70	186.50
6010	20	6	56	184.80	186.60
6010	20	5	150	185.70	187.50
6010	21	CC	5	192.80	196.90
6010	21	2	5	188.30	192.40
6010	21	2	100	189.30	193.40
6010	22	1	100	197.40	198.40
6010	22	1	150	197.90	198.90
6010	22	2	150	199.40	200.40
6010	22	3	142	200.80	201.80
6010	22	3	150	200.90	201.90
6010	22	4	150	202.40	203.40
6010	22	5	100	203.40	204.40
6010	22	5	135	203.80	204.80

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6010	22	5	150	203.90	204.90
6010	22	5	60	204.50	205.50
6010	22	6	110	205.00	206.00
6010	22	6	150	205.40	206.40
6010	23	CC		207.00	215.80
6010	23	1	142	206.90	215.70
6010	25	CC		226.70	234.70
6010	25	1	100	226.20	234.20
6010	26	1	100	235.90	236.20
6010	26	2	20	236.60	236.90
6010	26	2	47	236.90	237.20
6010	26	2	61	237.00	237.30
6010	26	2	100	237.40	237.70
6010	26	4	145	240.90	241.20
6010	26	6	46	242.90	243.20
6010	27	1	75	244.50	252.90
6010	27	1	80	244.50	252.30
6010	27	1	87	244.60	253.00
6010	27	1	105	244.80	253.10
6010	27	1	118	244.90	253.30
6010	27	1	130	245.00	253.40
6010	27	1	137	245.10	253.50
6011	1	1	93	.83	8.53
6011	1	1	100	.90	8.60
6011	1	1	149	1.39	9.09
6011	4	1	140	27.60	32.50
6011	7	1	0	51.40	59.80
6011	7	1	123	52.63	61.03
6011	7	1	142	52.82	61.22
6011	8	1	75	62.15	62.45
6011	8	1	100	62.40	62.70
6011	8	2	7	62.97	63.27
6011	8	2	20	63.10	63.40
6011	8	2	150	64.40	64.70
6011	8	3	75	65.15	65.45
6011	8	3	150	65.90	66.20
6011	8	4	47	66.37	66.67
6011	8	5	75	68.15	68.45
6011	8	5	150	68.90	69.20
6011	9	1	125	71.65	78.75
6011	9	2	47	72.37	79.47
6011	9	2	149	73.39	80.49
6011	10	1	140	80.80	89.80
6011	11	1	20	90.20	90.30
6011	11	2	75	92.25	92.35
6011	11	4	100	95.50	95.60
6011	11	5	129	97.29	97.39
6011	12	1	125	99.90	108.30
6011	13	1	100	108.90	110.00
6011	13	1	130	109.20	110.30
6011	13	3	15	111.00	112.10
6011	13	4	100	113.40	114.50
6011	13	6	60	116.00	117.10
6011	14	2	75	119.30	125.40
6011	14	3	98	121.00	127.20

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6011	15	2	44	128.20	136.10
6011	16	2	28	138.10	145.40
6011	16	2	100	138.80	146.10
6011	16	2	115	139.00	145.30
6011	17	2	110	148.00	155.70
6011	20	1	110	176.00	184.30
6011	20	1	140	176.30	184.60
6011	21	1	135	184.90	194.10
6011	22	1	140	194.40	203.50
6011	23	1	130	203.70	212.60
6011	26	2	70	232.70	240.30
6011	28	6	69	258.70	259.20
6012	1	CC		7.30	9.10
6012	1	1	150	1.30	3.10
6012	1	2	40	1.70	3.50
6012	1	2	135	2.65	4.45
6012	1	2	142	2.72	4.52
6012	1	3	80	3.60	5.40
6012	1	4	24	4.54	6.34
6012	1	4	149	5.79	7.59
6012	1	5	43	6.23	8.03
6012	1	5	95	6.75	8.55
6012	1	5	140	7.20	9.00
6012	2	CC		18.40	20.10
6012	2	1	147	10.87	12.57
6012	2	5	75	17.55	19.35
6012	2	6	142	18.32	20.02
6012	2	6	150	18.40	20.10
6012	3	CC		29.40	29.60
6012	3	2	95	22.85	23.05
6012	3	2	149	23.39	23.59
6012	3	3	116	24.56	24.76
6012	3	3	146	24.86	25.06
6012	3	4	105	25.95	26.15
6012	3	4	148	26.38	26.58
6012	3	5	100	27.40	27.60
6012	3	5	150	27.90	28.10
6012	3	6	85	28.75	28.95
6012	3	6	100	28.90	29.10
6012	3	6	148	29.38	29.58
6012	4	1	100	30.20	35.50
6012	4	1	150	30.70	36.00
6012	4	2	144	32.14	37.44
6012	4	3	2	32.22	37.52
6012	4	3	63	32.83	38.13
6012	4	3	99	33.19	38.49
6012	4	3	109	33.29	38.59
6012	4	3	140	33.60	38.90
6012	5	1	61	39.71	39.81
6012	5	1	100	40.10	40.20
6012	5	2	100	41.60	41.70
6012	5	3	140	43.50	43.60
6012	5	4	105	44.65	44.75
6012	5	5	142	46.52	46.62
6012	5	5	150	46.60	46.70

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6012	5	6	9	46.69	46.79
6012	6	1	105	49.15	57.15
6012	7	1	81	48.91	56.91
6012	7	1	100	49.10	57.10
6012	7	1	148	49.58	57.58
6012	8	1	143	68.03	73.43
6012	8	1	150	68.10	73.50
6012	8	2	100	69.10	74.50
6012	8	2	105	69.15	74.55
6012	8	2	115	69.25	74.65
6012	8	2	150	69.60	75.00
6012	8	3	94	70.54	75.94
6012	8	3	150	71.10	76.50
6012	9	CC		79.20	85.70
6012	9	1	100	77.20	83.70
6012	9	2	100	78.70	85.20
6012	9	2	115	78.85	85.35
6012	9	2	150	79.20	85.70
6012	10	1	127	86.27	94.57
6012	11	CC		101.50	104.50
6012	11	1	47	94.47	97.47
6012	11	1	148	95.48	99.48
6012	11	2	70	96.20	99.20
6012	11	2	95	96.45	99.45
6012	11	2	100	96.50	99.50
6012	11	3	47	97.47	100.50
6012	11	3	70	97.70	100.70
6012	11	3	150	98.50	101.50
6012	11	4	75	99.30	102.30
6012	11	4	100	99.50	102.50
6012	11	4	148	100.00	103.00
6012	11	5	47	100.50	103.50
6012	11	5	150	101.50	104.50
6012	12	1	70	105.50	105.60
6012	12	1	130	106.10	106.20
6012	12	2	150	107.80	107.90
6012	12	3	32	108.10	108.20
6012	12	4	100	110.30	110.40
6012	12	4	150	110.80	110.90
6012	12	5	100	111.80	111.90
6012	12	5	150	112.30	112.40
6012	12	6	37	112.70	112.80
6012	12	6	50	112.80	112.90
6012	12	6	100	113.30	113.40
6012	12	6	150	113.80	113.90
6012	13	1	150	115.70	115.90
6012	13	2	34	116.00	116.20
6012	13	2	100	116.70	116.90
6012	13	2	150	117.20	117.40
6012	13	3	100	118.20	118.40
6012	13	3	148	118.70	118.90
6012	13	4	47	119.20	119.40
6012	13	4	150	120.20	120.40
6012	13	5	100	121.20	121.40
6012	13	5	150	121.70	121.90

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6012	13	6	47	122.20	122.40
6012	13	6	150	123.20	123.40
6012	14	CC		132.70	132.90
6012	14	1	100	124.70	124.90
6012	14	2	100	126.20	126.40
6012	14	2	150	126.70	126.90
6012	14	3	100	127.70	127.90
6012	14	3	150	128.20	128.40
6012	14	4	100	129.20	129.40
6012	14	4	150	129.70	129.90
6012	14	5	100	130.70	130.90
6012	14	6	47	131.70	131.90
6012	14	6	140	132.60	132.80
6012	15	1	100	133.40	141.80
6012	16	1	98	142.80	142.90
6012	16	1	150	143.30	143.40
6012	16	2	100	144.30	144.40
6012	16	2	150	144.80	144.90
6012	16	3	100	145.80	145.90
6012	16	3	150	146.30	146.40
6012	16	4	47	146.80	146.90
6012	16	4	150	147.80	147.90
6012	16	5	100	148.80	148.90
6012	16	5	129	149.10	149.20
6012	18	1	100	153.00	153.20
6012	18	1	150	153.50	153.70
6012	18	2	100	154.50	154.70
6012	18	2	150	155.00	155.20
6012	18	3	100	156.00	156.20
6012	18	3	150	156.50	156.70
6012	18	4	100	157.50	157.70
6012	18	4	124	157.70	157.90
6012	18	4	150	158.00	158.20
6012	18	5	100	159.00	159.20
6012	18	5	150	159.50	159.70
6012	18	6	47	160.00	160.20
6012	18	6	140	160.90	161.10
6012	19	CC		163.80	170.70
6012	19	1	100	161.80	168.70
6012	19	1	150	162.30	169.20
6012	19	2	47	162.80	169.70
6012	19	2	140	163.70	170.60
6012	21	1	100	180.70	187.60
6012	21	2	100	182.20	189.10
6012	22	1	47	190.30	198.30
6012	22	1	136	191.20	199.20
6012	25	1	100	219.60	219.70
6012	25	2	100	221.10	221.20
6012	25	3	100	222.60	222.70
6012	25	4	50	223.60	223.70
6012	25	4	100	224.10	224.20
6012	25	5	100	225.60	225.70
6012	25	6	100	227.10	227.20
6012	26	2	20	228.20	229.80
6012	26	6	100	235.00	236.60

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6012	27	1	100	237.90	246.40
6012	28	1	100	248.20	248.30
6012	28	2	50	249.20	249.30
6012	28	2	100	249.70	249.80
6012	28	3	100	251.20	251.30
6012	28	4	100	252.70	252.80
6012	28	5	100	254.20	254.30
6012	28	6	47	255.20	255.30
6012	29	1	47	257.10	257.30
6012	29	2	100	259.10	259.30
6012	29	3	47	260.10	260.30
6012	29	4	46	261.60	261.80
6012	29	4	100	262.10	262.30
6012	29	5	46	263.10	263.30
6012	29	6	47	264.60	264.80
6012	30	1	100	265.60	270.20
6012	30	1	130	265.90	270.50
6012	30	2	100	267.10	271.70
6012	30	3	98	268.60	273.20
6012	30	3	120	268.80	273.40
6012	30	4	47	269.60	274.20
6012	30	4	70	269.80	274.40
6012	31	1	130	276.50	281.80
6012	31	2	100	277.70	283.00
6012	31	3	47	278.70	284.00
6012	32	1	90	285.70	293.80
6012	32	1	130	286.10	294.20
6012	33	1	100	295.00	295.90
6012	33	2	47	296.00	296.90
6012	33	2	100	296.50	297.40
6012	33	2	113	296.60	297.50
6012	33	3	47	297.50	298.40
6012	33	4	35	298.90	299.80
6012	33	4	47	299.00	299.90
6012	33	4	78	299.30	300.20
6012	33	4	97	299.50	300.40
6012	33	4	110	299.60	300.50
6012	33	4	137	299.90	300.80
6012	33	5	100	301.00	301.90
6012	33	6	47	302.00	302.90
6013	3	1	143	19.43	28.23
6013	4	1	104	28.84	36.14
6013	4	1	135	29.15	36.45
6013	4	1	150	29.30	36.60
6013	4	2	52	29.82	37.12
6013	4	2	132	30.52	37.92
6013	4	2	150	30.80	38.10
6013	5	2	2	38.42	46.12
6013	5	2	48	38.88	46.58
6013	6	2	125	50.25	55.25
6013	6	2	152	50.52	55.52
6013	6	3	75	51.25	56.25
6013	6	3	85	51.35	56.35
6013	6	3	149	51.99	56.99
6013	7	1	100	58.10	58.80

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6013	7	2	148	60.08	60.78
6013	7	3	75	60.85	61.55
6013	7	3	100	61.10	61.80
6013	7	4	47	62.07	62.77
6013	7	4	148	63.08	63.78
6013	7	5	35	63.45	64.15
6013	7	5	113	64.23	64.93
6013	7	5	53	65.13	65.83
6013	7	6	138	65.98	66.68
6013	8	1	66	67.46	73.56
6013	8	2	105	69.35	75.45
6013	8	2	131	69.61	75.71
6013	8	2	138	69.68	75.78
6013	9	2	70	78.70	84.60
6013	11	2	110	96.90	97.80
6013	11	4	115	100.00	100.80
6013	13	1	128	119.40	128.10
6013B	14	1	140	129.70	138.00
6013B	15	1	110	138.80	147.10
6013B	16	2	12	148.10	154.10
6013B	16	3	107	150.60	156.60
6013B	17	1	143	157.50	166.60
6013B	18	2	21	168.50	170.40
6013B	19	2	47	177.50	182.80
6013B	19	2	58	177.60	182.90
6013B	19	2	130	178.30	183.60
6013B	22	2	88	205.70	211.90
6013B	24	2	139	226.40	232.80
6013B	26	1	145	242.60	251.80
6013B	28	1	110	262.50	269.10
6013B	28	2	40	263.30	269.90
6013B	31	1	140	290.40	296.30
6014	2	2	78	288.30	294.20
6014	2	2	144	17.94	24.34
6014	2	3	116	19.16	25.56
6014	2	3	139	19.39	25.79
6014	3	1	145	26.55	33.95
6014	4	3	60	38.80	42.70
6014	4	4	140	41.10	45.00
6014	6	2	85	56.15	61.85
6014	7	1	90	64.70	66.90
6014	7	2	73	66.03	69.23
6014	7	2	85	66.15	69.35
6014	7	2	128	66.58	69.78
6014	7	2	115	66.45	68.65
6014	7	3	107	67.87	70.07
6014	7	4	81	69.11	71.31
6014	7	5	45	70.25	72.45
6014	7	5	52	70.32	72.52
6014	7	5	147	71.27	73.47
6014	8	1	67	74.37	82.37
6014	9	1	100	83.70	92.50
6014	10	1	120	93.50	102.10
6014	10	1	125	93.55	102.10
6015	2	1	143	15.73	24.93

HOLE	CORE	SEC	CM	NO. DEPTH	MAX. DEPTH
6015	3	1	138	25.28	34.28
6015	4	1	100	35.20	41.90
6015	4	1	125	35.45	42.15
6015	4	1	150	35.70	42.40
6015	4	2	42	36.12	42.82
6015	4	2	150	37.20	43.90
6015	6	CC		54.80	62.80
6015	6	1	120	54.50	62.50
6015	6	1	125	54.55	62.55
6016B	1	1	130	12.90	21.40
6016B	2	1	118	12.78	21.28
6016B	2	1	140	22.10	31.00
6016B	6	1	40	59.50	67.80
6016B	6	1	47	59.57	67.87
6016B	6	1	68	59.78	68.08
6016B	6	1	75	59.85	68.15
6016B	6	1	100	60.10	68.40
6017	1	1	120	.80	13.40
6017	1	1	149	1.09	13.69
6017	1	2	15	1.25	13.85
6017	1	2	75	1.85	14.45
6017	1	2	149	2.59	15.19
6017	2	1	100	15.60	20.90
6017	2	1	149	16.09	21.39
6017	2	2	49	16.59	21.89
6017	2	2	150	17.50	22.90
6017	2	3	48	18.08	23.38
6017	2	3	60	18.20	23.50
6017	2	3	75	18.35	23.65
6017	2	3	100	18.60	23.90
6017	2	3	139	18.99	24.29
6017	3	1	149	24.69	33.49
6017	4	1	123	33.83	40.03
6017	4	1	143	34.03	40.23
6017	4	1	149	34.09	40.29
6017	4	2	32	34.42	40.62
6017	4	2	131	35.41	41.61
6017	4	2	150	35.60	41.80
6017	4	3	25	35.85	42.05
6017	4	3	40	36.00	42.20
6017	4	3	47	36.07	42.27
6017	4	3	67	36.27	42.47
6017	4	3	100	36.60	42.80
6017	4	3	127	36.87	43.07
6017	4	3	149	37.09	43.29
6017	5	1	38	43.68	51.58
6017	5	1	105	44.35	52.25
6017	5	1	110	44.40	52.30
6017	5	1	136	44.66	52.56
6017	6	1	110	53.20	66.30
6017	6	2	123	54.83	67.93
6017	6	2	141	55.01	68.11
6017	6	2	150	55.10	68.20
6017	7	1	45	68.65	70.25
6017	7	1	55	68.75	70.35

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6017	7	1	70	68.90	70.50
6017	8	1	90	71.80	80.20
6017	9	1	115	72.05	80.45
6017	8	1	145	72.35	80.75
6017	8	1	150	72.40	80.80
6017	9	1	100	81.10	90.00
6017	9	1	134	81.44	90.34
6018	4	1	144	27.34	36.84
6018	6	2	25	46.85	47.25
6018	6	2	60	47.20	47.60
6018	6	2	91	47.51	47.91
6019	1	CC		2.90	15.90
6019	1	1	46	.36	13.36
6019	1	1	96	.86	13.86
6019	1	1	141	1.31	14.31
6019	1	1	150	1.40	14.40
6019	1	2	20	1.60	14.60
6019	1	2	40	1.80	14.80
6019	1	2	45	1.85	14.85
6019	1	2	115	2.55	15.55
6019	1	2	149	2.89	15.89
6019	2	2	50	16.90	21.00
6019	2	2	100	17.40	21.50
6019	2	2	118	17.58	21.68
6019	2	2	139	17.79	21.89
6019	2	3	100	18.90	23.00
6019	2	3	122	19.12	23.22
6019	2	3	149	19.39	23.49
6019	3	1	140	24.00	31.30
6019	3	2	0	24.10	31.40
6019	3	2	23	24.33	31.63
6019	3	2	132	25.42	32.72
6019	3	2	149	25.59	32.89
6019	3	2	150	25.50	32.90
6019	4	CC		35.50	42.20
6019	4	1	19	26.69	33.39
6019	4	1	30	26.80	33.50
6019	4	2	73	28.73	35.43
6019	4	4	116	32.16	38.86
6019	4	6	41	34.41	41.11
6019	5	CC		43.60	51.80
6019	5	1	75	42.85	51.05
6019	5	1	81	42.91	51.11
6019	5	1	112	43.22	51.42
6019	7	1	104	54.84	60.84
6019	7	1	141	55.21	61.21
6019	8	1	30	61.80	69.50
6019	8	1	149	62.99	70.69
6019B	1	CC		2.10	3.60
6019B	1	2	100	1.60	1.00
6019B	1	2	118	1.78	1.18
6020	1	CC		.90	7.90
6020	1	1	85	.25	7.25
6020	1	1	95	.35	7.35
6020	1	1	119	.59	7.59

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6020	1	3	82	3.22	10.22
6020	2	CC		12.00	16.50
6020	2	1	80	8.30	12.80
6020	2	1	149	8.99	13.49
6020	2	2	25	9.25	13.75
6020	2	2	37	9.37	13.87
6020	2	2	47	9.47	13.97
6020	2	2	140	10.40	14.90
6020	2	2	149	10.49	14.99
6020	2	3	0	10.50	15.00
6020	2	3	140	11.90	16.40
6020	3	CC		18.20	25.30
6020	3	2	47	17.17	24.27
6020	3	2	110	17.80	24.90
6020	3	2	115	17.85	24.95
6020	3	2	118	17.88	24.98
6020	3	2	125	17.95	25.05
6020	3	2	140	18.10	25.20
6020	3	3	119	19.39	26.49
6020	4	CC		27.10	31.40
6020	4	2	15	25.75	30.05
6020	4	2	40	26.00	30.30
6020	4	2	50	26.10	30.40
6020	4	2	90	26.50	30.80
6020	4	2	100	26.60	30.90
6020	5	CC		31.70	34.10
6020	5	1	141	31.61	34.01
6020	6	1	60	34.60	43.00
6020	6	1	72	34.72	43.12
6020	6	1	85	34.85	43.25
6020	6	1	129	35.29	43.69
6021	1	1	149	.59	3.99
6021	1	2	65	1.25	4.65
6021	1	2	149	2.09	5.49
6021	1	3	10	2.20	5.60
6021	1	3	40	2.50	5.90
6021	1	3	47	2.57	5.97
6021	1	3	75	2.85	6.25
6021	1	3	100	3.10	6.50
6021	1	3	110	3.20	6.60
6021	1	3	115	3.25	6.65
6021	1	3	129	3.39	6.79
6021	2	1	149	7.69	10.69
6021	2	2	112	8.82	11.82
6021	2	2	135	9.05	12.05
6021	2	2	149	9.19	12.19
6021	2	3	5	9.25	12.25
6021	2	3	48	9.68	12.68
6021	2	3	90	10.10	13.10
6021	2	3	100	10.20	13.20
6021	2	3	125	10.45	13.45
6021	2	3	135	10.55	13.55
6021	2	3	143	10.63	13.63
6021	2	3	150	10.70	13.70
6021	2	4	3	10.73	13.73

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6021	2	4	48	11.18	14.18
6021	2	4	50	11.20	14.20
6021	2	4	70	11.40	14.40
6021	2	4	100	11.70	14.70
6021	2	4	106	11.76	14.76
6021	2	4	128	11.98	14.98
6021	2	4	130	12.00	15.00
6021C	1	1	75	.65	5.35
6021C	1	1	125	1.15	5.85
6021C	1	1	139	1.29	5.99
6021C	1	2	12	1.52	6.22
6021C	1	2	35	1.75	6.45
6021C	1	2	103	2.43	7.13
6021C	1	2	112	2.52	7.22
6021C	1	2	122	2.62	7.32
6021C	1	2	135	2.75	7.45
6021C	1	2	139	2.79	7.49
6021C	2	1	149	8.39	14.29
6021C	2	2	112	9.52	15.42
6021C	3	1	118	15.78	23.78
6021C	3	1	125	15.85	23.85
6021C	3	1	149	16.09	24.09
6021C	3	2	115	17.25	25.25
6021C	4	1	138	25.78	34.98
6021C	6	1	100	45.70	53.50
6021C	6	1	113	45.83	53.63
6021C	6	1	139	46.09	53.89
6021C	7	1	38	53.88	60.78
6021C	7	1	47	53.97	60.87
6021C	7	2	149	56.49	63.39
6021C	8	2	33	64.13	70.13
6021C	8	3	27	65.57	71.57
6021C	8	3	149	66.79	72.79
6021C	9	1	118	72.98	78.98
6021C	9	1	149	73.29	79.29
6021C	9	2	25	73.55	79.55
6021C	9	3	45	75.25	81.25
6021C	9	3	129	76.09	82.09
6021C	10	1	91	82.61	89.61
6021C	10	1	149	83.19	90.19
6021C	10	2	5	83.25	90.25
6021C	10	2	100	84.20	91.20
6021C	10	2	127	84.47	91.47
6021C	10	2	143	84.63	91.63
6021C	11	1	105	92.35	98.05
6021C	11	1	114	92.44	98.14
6021C	11	1	149	92.79	98.49
6021C	11	2	4	92.84	98.54
6021C	11	2	116	93.96	99.66
6021C	11	2	142	94.22	99.92
6021C	11	2	149	94.29	99.99
6021C	11	3	5	94.35	100.10
6021C	11	3	55	94.85	100.60
6021C	11	3	90	95.20	100.90
6021C	11	3	120	95.50	101.20

HOLE	CORE	SEC	CM	NOM. DEPTH	MAX. DEPTH
6021C	12	1	149	102.20	107.00
6021C	12	2	149	103.70	108.50
6021C	12	3	48	104.20	109.00
6021C	12	3	70	104.40	109.20
6021C	12	3	140	105.10	109.90
6021C	13	1	130	102.00	106.80
6021C	14	1	83	120.70	129.10
6021C	14	1	110	121.00	129.40
6021C	14	1	125	121.10	129.50
6021C	14	1	139	121.30	129.70
6021C	15	1	142	130.00	139.50
6021C	15	1	144	130.00	139.50
6021C	16	1	90	140.40	148.50
6021C	16	1	149	141.00	149.10
6021C	17	1	100	150.20	158.00
6021C	17	1	127	150.50	158.30
6021C	18	1	133	158.90	166.60
6021C	18	2	40	159.50	167.20
6021C	18	2	139	160.50	168.20
6021C	19	1	145	168.80	176.20
6021C	19	2	47	169.30	176.70
6021C	19	2	100	169.80	177.20
6021C	19	2	103	169.80	177.20
6021C	20	1	130	178.00	187.00
6021C	20	1	149	178.20	187.50
6021C	21	1	142	187.50	195.30
6021C	21	2	40	188.00	195.80
6021C	21	2	100	188.60	196.40
6021C	21	2	129	188.90	196.70
6021C	23	1	110	206.70	212.40
6021C	23	1	130	206.90	212.60
6021C	23	2	40	207.50	213.20
6021C	23	2	140	208.50	214.20
6021C	23	3	100	209.60	215.30
6021C	24	1	90	216.30	225.00
6021C	24	1	110	216.50	225.20
6021C	26	1	130	241.50	244.30
6021C	26	2	75	242.50	245.30
6021C	26	3	75	244.00	246.80
6021C	26	3	100	244.20	247.00
6021C	26	4	100	245.70	248.50
6021C	27	1	50	244.90	252.90
6021C	27	1	80	245.20	253.20
6021C	27	1	100	245.40	253.40
6021C	28	1	115	254.30	263.10
6021C	29	1	100	264.00	271.10
6021C	29	2	64	265.10	272.20
6021C	30	2	25	275.00	281.30
6021C	30	2	40	275.20	281.50
6021C	32	1	69	292.30	300.00
6021C	32	1	80	292.40	300.10

APPENDIX II

Some of the samples were incorrectly labeled on board the drill ship. The depth in section (CM) of these samples was measured from the top of the recovered sediment rather than from the top of the section. These sample locations have been corrected in Appendix I, but because of prior sample labeling the sample locations in the data file remain uncorrected. This appendix contains a list of the mislabeled samples and the corrected CM values.

HOLE	CORE	SEC	UNCORRECTED	CORRECTED
			CM	CM
6002	1	1	6	126
6002	1	1	10	130
6002	2	1	5	125
6002	2	1	8	128
6002	2	1	11	131
6002	5	1	5	105
6002	5	1	10	110
6002	6	1	12	112
6002	6	1	31	131
6002	7	1	5	135
6002	8	1	30	70
6002	8	1	35	75
6002	11	1	3	143
6002	12	1	20	130
6002	12	1	100	140
6002	13	1	10	50
6002	13	1	47	87
6002	15	1	10	140

HOLE	CORE	SEC	UNCORRECTED	CORRECTED
			CM	CM
6002	19	1	16	146
6004	12	1	48	118
6005	2	1	25	35
6005	2	1	60	70
6005	4	2	82	92
6007	1	1	1	101
6007B	7	1	2	112
6007B	15	1	25	95
6009	6	1	7	127
6009B	13	1	42	57
6009B	13	1	57	72
6009B	13	1	150	140
6009B	19	1	8	38
6009B	19	1	91	121
6010	11	1	4	124
6012	10	1	57	127
6012	32	1	80	90
6012	32	1	120	130