

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SPECTROGRAPHIC ANALYSES OF SUBSURFACE  
CAMBRIAN INSOLUBLE-RESIDUE SAMPLES  
FROM SOUTHERN MISSOURI

By

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## INTRODUCTION

Geochemical studies of subsurface Cambrian strata in the Rolla 1° x 2° topographic quadrangle, Missouri have shown strong contrasts in regional geochemical distribution and abundance patterns that demonstrate a close relationship to known trends of ore mineralization (Erickson, Mosier, Viets, 1978; Erickson, Mosier, Viets, and King, 1979). The availability of whole-rock and insoluble-residue samples from drill holes along a traverse extending from the St. Francois Mountains to northeastern Oklahoma, and a detailed published study (Kurtz et al., 1975) of the subsurface stratigraphy and lithology of Cambrian units along that traverse were the encouraging factors to extend subsurface geochemical studies along the same line. The results and implications of these studies have been previously reported (Erickson et al., 1981). The spectrographic results of insoluble-residue samples from this study are presented in the present paper. The spectrographic results of whole-rock samples are presented in an accompanying open-file report (Mosier, Erickson, and McDanal, in press).

## LOCATION

In this study, samples of Upper Cambrian sedimentary rocks from 15 drill holes were analyzed spectrographically. Thirteen of the holes are located on a traverse about 400 km long that extends from the St. Francois Mountains in Missouri southwestward through Arkansas to northeastern Oklahoma, and the other two holes are about 43 km southeast of the traverse in Ozark County, Missouri (Fig. 1). A list of the analyzed drill holes showing Missouri log number, county, and location (Table 1) allows correlation with the stratigraphic logs on file at the Missouri Department of Natural Resources, Division of Geology and Land Survey in Rolla, Missouri.

Drill holes number 2, 10, and 51 are included as a part of this study; however, analytical data for these drill holes have been previously reported and, therefore, are not included here (Mosier, Viets, and McDanal, 1978; Mosier, Viets, Siems, and McDanal, 1978; Viets, Mosier, Erickson, and McDanal, 1979).

## PREPARATION AND ANALYSIS OF SAMPLES

The samples were pulverized to minus 140 mesh (0.105 mm) in a vertical grinder with ceramic plates. Some insoluble-residue samples contained only a few milligrams of material, and these were hand ground in an agate mortar and pestle. A hand magnet was passed over the insoluble-residue samples before grinding to remove filings or chips of drill bit that might be present.

Each sample was analyzed semiquantitatively for 31 elements using a six-step, direct-current arc optical-emission spectrographic method (Grimes and Marranzino, 1968).

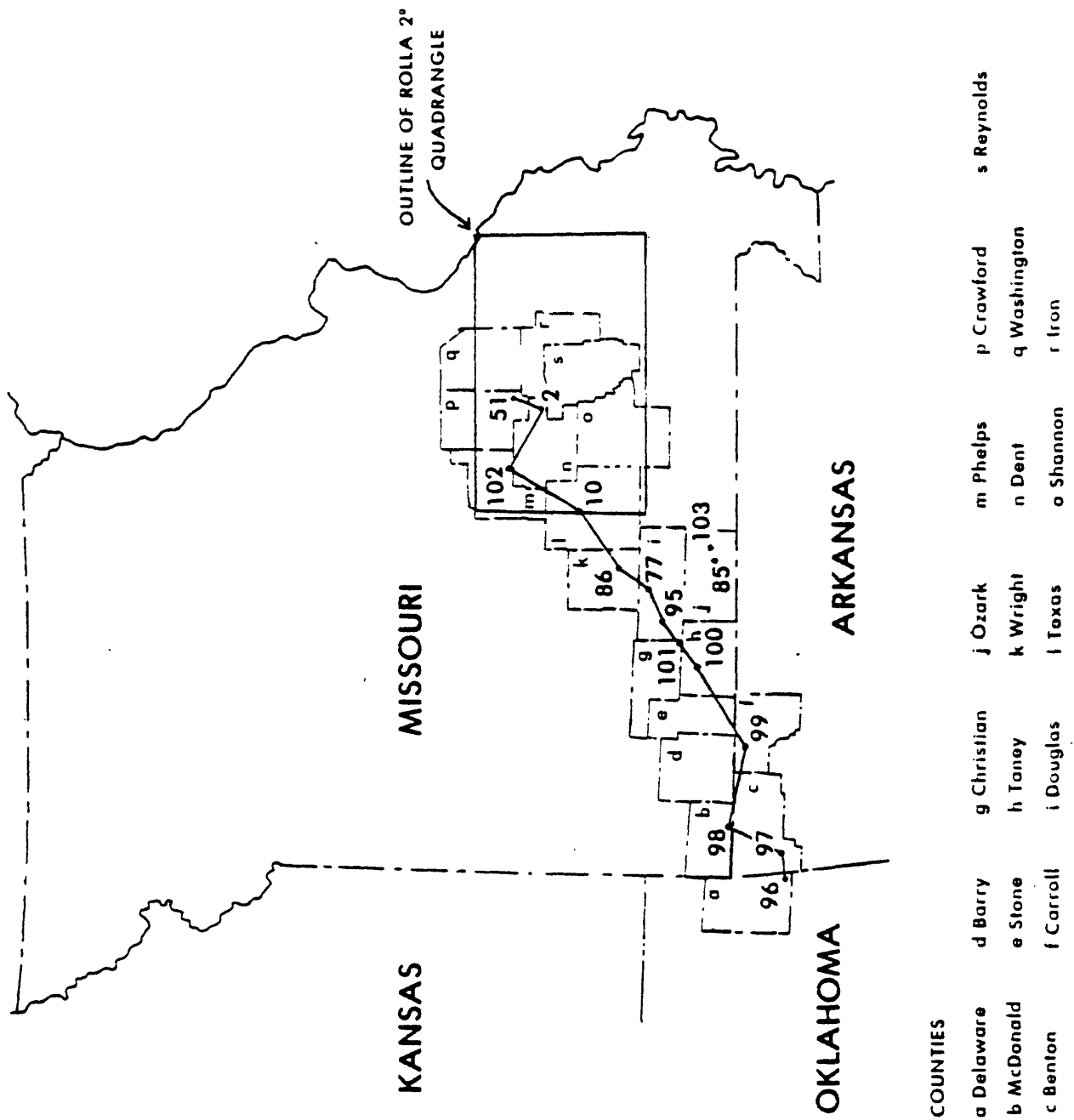


Fig. 1. Index map showing line of section and location and number of drill holes from which samples were analyzed in the present study. Modified from Kurtz, et al. (1975).

Table 1. List of drill holes from which samples  
have been analyzed in the present study

| Drill<br>hole<br>number | Missouri<br>log<br>number | County and<br>State | Location<br>Sec., T., and R. |
|-------------------------|---------------------------|---------------------|------------------------------|
| 2                       | 20975                     | Dent, Mo.-----      | 26, 34 N., 3 W.              |
|                         | 23193                     |                     |                              |
| 10                      | 25824                     | Texas, Mo.-----     | 25, 32 N., 10 W.             |
| 51                      | 26096                     | Crawford, Mo.-----  | 14, 35 N., 2 W.              |
| 77                      | 25822                     | Douglas, Mo.-----   | 24, 27 N., 15 W.             |
| 85                      | 27496                     | Ozark, Mo.-----     | 32, 23 N., 12 W.             |
| 86                      | 25828                     | Wright, Mo.-----    | 16, 29 N., 13 W.             |
| 95                      | 25825                     | Douglas, Mo.-----   | 24, 26 N., 17 W.             |
| 96                      | 26078                     | Delaware, Okla.---  | 22, 21 N., 25 E.             |
| 97                      | 26042                     | Benton, Ark.-----   | 25, 19 N., 33 W.             |
| 98                      | 25812                     | McDonald, Mo.-----  | 28, 21 N., 31 W.             |
| 99                      | 25823                     | Carroll, Ark.-----  | 30, 21 N., 25 W.             |
| 100                     | 25827                     | Taney, Mo.-----     | 15, 24 N., 20 W.             |
| 101                     | 25826                     | Christian, Mo.----- | 33, 25 N., 18 W.             |
| 102                     | 26041                     | Phelps, Mo.-----    | 36, 36 N., 7 W.              |
| 103                     | 17452                     | Ozark, Mo.-----     | 19, 23 N., 11 W.             |
|                         | 15454                     |                     |                              |

The semiquantitative spectrographic values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.2, 0.15, and multiples of 10 of these numbers) and are approximate geometric midpoints of the concentration ranges. The precision is shown to be within one adjoining reporting interval on each side of the reported values 83 percent of the time and within two adjoining intervals on each side of the reported value 96 percent of the time (Motooka and Grimes, 1976).

The visual lower limits of determination for the 31 elements included in the present report are as follows:

For those given in percent:

|           |       |
|-----------|-------|
| Calcium   | 0.05  |
| Iron      | 0.05  |
| Magnesium | 0.02  |
| Titanium  | 0.002 |

For those given in parts per million:

|           |     |            |     |
|-----------|-----|------------|-----|
| Antimony  | 100 | Molybdenum | 5   |
| Arsenic   | 200 | Nickel     | 5   |
| Barium    | 20  | Niobium    | 20  |
| Beryllium | 1   | Scandium   | 5   |
| Bismuth   | 10  | Silver     | 0.5 |
| Boron     | 10  | Strontium  | 100 |
| Cadmium   | 20  | Thorium    | 100 |
| Chromium  | 10  | Tin        | 10  |
| Cobalt    | 5   | Tungsten   | 50  |
| Copper    | 5   | Vanadium   | 10  |
| Gold      | 10  | Yttrium    | 10  |
| Lanthanum | 20  | Zinc       | 200 |
| Lead      | 10  | Zirconium  | 10  |
| Manganese | 10  |            |     |

## DESCRIPTION OF SAMPLES

Each sample is identified by an eight-character code. The first three numbers signify the USGS hole number (for example, 077 = hole 77; 085 = hole 85, and so forth). These three numbers are followed by a capital letter, I, which indicates insoluble residue. The last four digits identify the depth of the sample (in feet) from the drill-hole collar. Each sample is a composite of 10 feet of drill core above the depth indicated.

The stratigraphic unit of the sample is identified by a coded number in the first column (analytical tables) following the sample number. The code and formation names are as follows:

| <u>code</u> | <u>formation</u>                              |
|-------------|---|
| 11          | Precambrian rocks                             |
| 12          | Lamotte Sandstone <sup>1</sup>                |
| 13          | Bonneterre Formation                          |
| 14          | Davis Formation                               |
| 15          | Derby-Doe Run <sup>2</sup> Formation          |
| 16          | Potosi Dolomite                               |
| 17          | Eminence Dolomite                             |
| 18          | Gunter Sandstone Member of Gasconade Dolomite |
| 19          | Gasconade Dolomite (part)                     |
| 20          | Roubidoux Formation                           |
| 28          | Jefferson City Formation                      |
| 29          | Cotter Formation                              |
| 37          | Post-Cotter formations                        |

## EXPLANATION OF DATA

The columns in the analytical tables have headings of sample, formation, and elements. Columns in which the element heading is preceded by an S contain the emission-spectraphic data. The prefix AA in the zinc column heading indicates that the results were determined by atomic absorption. Iron, magnesium, calcium, and titanium are reported in percent (%); all other elements are in parts per million. Other symbols shown on the tables are:

N = Not detected at the level of detection;

-- = Not determined;

< = Detected, but below the lowest limit of detection, which is value shown; and

> = Greater than value shown.

<sup>1</sup>Term Reagan Sandstone used in drill holes 96, 97, 98, and 99.

<sup>2</sup>As used by McCracken (1961).

Elements that were not detected in any of the samples of a sample set are not reported in the tables.

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TABLE 2.--Spectrographic analyses of insoluble-residue samples from drill hole no. 96.

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS | S-R | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09610020 | 37   | .07   | .02   | .70   | .010  | 50   | N    | N    | 50  | 70   | N    | N    | N    | <10  | 5    | N    |
| 09610030 | 37   | .10   | .03   | 1.50  | .005  | 30   | N    | N    | 50  | 50   | N    | N    | N    | <10  | <5   | N    |
| 09610040 | 37   | <.05  | .03   | 3.30  | .002  | 50   | N    | N    | 50  | N    | N    | N    | N    | <10  | <5   | N    |
| 09610050 | 37   | <.05  | .02   | 1.30  | <.002 | 15   | N    | N    | 30  | N    | N    | N    | N    | N    | <5   | N    |
| 09610060 | 37   | .05   | .02   | 1.50  | .005  | 20   | N    | N    | 70  | N    | N    | N    | N    | <10  | <5   | N    |
| 09610070 | 37   | <.05  | .02   | 2.30  | <.002 | 30   | N    | N    | 20  | N    | N    | N    | N    | N    | <5   | N    |
| 09610080 | 37   | <.05  | .02   | 2.30  | <.002 | 50   | N    | N    | 20  | N    | N    | N    | N    | <10  | <5   | N    |
| 09610090 | 37   | .07   | .02   | 1.50  | .003  | 30   | N    | N    | 30  | N    | N    | N    | N    | <10  | 10   | N    |
| 09610100 | 37   | <.05  | .02   | 1.30  | .003  | 20   | N    | N    | 30  | N    | N    | N    | N    | N    | 7    | N    |
| 09610110 | 37   | <.05  | <.02  | 1.30  | <.002 | 15   | N    | N    | 30  | N    | N    | N    | N    | N    | <5   | N    |
| 09610120 | 37   | <.05  | .02   | 1.30  | .002  | 20   | N    | N    | 50  | N    | N    | N    | N    | N    | 7    | N    |
| 09610130 | 37   | <.05  | .02   | 1.30  | .005  | 20   | N    | N    | 70  | N    | N    | N    | N    | <10  | 5    | N    |
| 09610140 | 37   | .15   | .02   | 1.30  | .005  | 50   | N    | N    | 30  | N    | N    | N    | N    | N    | 5    | N    |
| 09610150 | 37   | .10   | .02   | .50   | .005  | 20   | N    | N    | 50  | N    | N    | N    | N    | N    | 5    | N    |
| 09610160 | 37   | .15   | .03   | 2.30  | .007  | 70   | N    | N    | 30  | N    | N    | N    | N    | <10  | 5    | N    |
| 09610170 | 37   | .07   | .02   | 1.50  | .005  | 50   | N    | N    | 50  | N    | N    | N    | N    | <10  | 5    | N    |
| 09610180 | 37   | .10   | .03   | 1.30  | .005  | 50   | N    | N    | 50  | N    | N    | N    | N    | <10  | 5    | N    |
| 09610190 | 37   | .10   | .02   | .70   | .005  | 70   | N    | N    | 50  | N    | N    | N    | N    | <10  | <5   | N    |
| 09610200 | 37   | 5.00  | 1.00  | .20   | .500  | 300  | N    | N    | 100 | 300  | 2.0  | N    | 50   | 100  | 100  | 30   |
| 09610210 | 37   | 5.00  | 1.00  | .20   | .300  | 200  | N    | N    | 100 | 300  | 3.0  | 20   | 30   | 100  | 150  | 30   |
| 09610220 | 37   | 5.00  | 1.50  | 3.00  | .500  | 200  | N    | N    | 100 | 300  | 2.0  | N    | 50   | 150  | 70   | 20   |
| 09610230 | 37   | 15.00 | .70   | .50   | .200  | 300  | .5   | N    | 100 | 200  | 1.5  | N    | 70   | 70   | 100  | N    |
| 09610240 | 37   | 5.00  | 1.50  | 5.00  | .500  | 300  | N    | N    | 100 | 200  | 2.0  | N    | 20   | 150  | 20   | 30   |
| 09610250 | 37   | 5.00  | 1.00  | .30   | .500  | 200  | N    | N    | 100 | 300  | 3.0  | N    | 20   | 100  | 70   | 30   |
| 09610260 | 37   | 5.00  | 1.50  | .50   | .500  | 300  | N    | N    | 100 | 500  | 3.0  | N    | 50   | 150  | 100  | 30   |
| 09610270 | 37   | 5.00  | 1.50  | .20   | .500  | 200  | N    | N    | 100 | 500  | 5.0  | N    | 50   | 150  | 150  | 30   |
| 09610280 | 37   | 7.00  | 2.00  | .50   | .500  | 500  | N    | N    | 100 | 700  | 3.0  | N    | 70   | 150  | 100  | 50   |
| 09610290 | 37   | 5.00  | 1.50  | .30   | .300  | 300  | N    | N    | 100 | 500  | 5.0  | N    | 50   | 100  | 150  | 50   |
| 09610300 | 37   | 5.00  | 1.50  | .20   | .300  | 300  | N    | N    | 100 | 500  | 5.0  | N    | 50   | 100  | 150  | 30   |
| 09610310 | 37   | 2.00  | .50   | .10   | .150  | 100  | N    | N    | 50  | 150  | 2.0  | N    | 10   | 30   | 50   | N    |
| 09610320 | 37   | <.05  | .02   | <.05  | .005  | N    | N    | N    | N   | N    | N    | N    | N    | N    | <5   | N    |
| 09610330 | 37   | <.05  | <.02  | <.05  | .002  | N    | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    |
| 09610340 | 37   | .20   | .02   | .35   | .007  | N    | N    | N    | N   | N    | N    | N    | N    | N    | <5   | N    |
| 09610350 | 37   | 1.00  | .15   | .35   | .050  | 10   | N    | N    | 20  | 100  | 1.5  | N    | N    | 15   | 5    | N    |
| 09610360 | 37   | 3.00  | 3.00  | 5.00  | .200  | 100  | N    | N    | 70  | 200  | 2.0  | N    | 10   | 100  | 30   | 20   |
| 09610370 | 37   | 3.00  | 1.00  | .50   | .200  | 50   | .5   | N    | 70  | 500  | 2.0  | N    | 15   | 100  | 50   | 20   |
| 09610380 | 37   | 1.50  | 2.00  | 2.00  | .150  | 70   | N    | N    | 50  | 300  | 2.0  | N    | 7    | 50   | 20   | N    |
| 09610390 | 37   | 3.00  | 2.00  | .70   | .300  | 70   | N    | N    | 70  | 300  | 5.0  | N    | 10   | 150  | 30   | N    |
| 09610400 | 37   | 5.00  | 1.50  | .15   | .500  | 50   | N    | N    | 70  | 300  | 2.0  | N    | 15   | 200  | 30   | N    |
| 09610410 | 37   | 5.00  | 1.50  | .50   | .700  | 70   | <.5  | N    | 100 | 300  | 3.0  | N    | 20   | 150  | 50   | N    |
| 09610420 | 37   | 5.00  | 1.00  | .20   | .300  | 50   | <.5  | N    | 100 | 300  | 2.0  | N    | 20   | 100  | 70   | N    |
| 09610430 | 37   | .50   | .10   | .15   | .030  | 10   | <.5  | N    | 50  | 50   | N    | N    | N    | <10  | 5    | N    |
| 09610440 | 37   | .70   | .15   | .20   | .050  | 100  | N    | N    | 30  | 70   | N    | N    | N    | 10   | 10   | N    |
| 09610450 | 37   | 1.00  | 1.00  | 1.30  | .150  | 70   | <.5  | N    | 50  | 150  | 1.5  | N    | 5    | 20   | 15   | N    |
| 09610460 | 37   | .10   | .10   | .10   | .005  | N    | N    | N    | 50  | 70   | N    | N    | N    | N    | 5    | N    |



| Sample   | FORM | S-FF% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09610470 | 37   | .50   | .10   | .10   | .010  | N    | N    | N    | 30  | 70   | N    | V    | N    | N    | 10   | N    |
| 09610480 | 29   | .50   | .70   | 1.00  | .050  | 70   | N    | N    | 15  | 150  | N    | N    | N    | 10   | 10   | N    |
| 09610490 | 29   | 2.00  | .10   | .15   | .020  | 10   | N    | N    | 20  | 100  | N    | N    | 5    | <10  | 20   | N    |
| 09610500 | 29   | .15   | .07   | .07   | .020  | 15   | N    | N    | 20  | 50   | N    | N    | N    | <10  | <5   | N    |
| 09610510 | 29   | .70   | .15   | .07   | .050  | 10   | N    | N    | 20  | 70   | N    | N    | N    | <10  | 7    | N    |
| 09610520 | 29   | 1.00  | .20   | .07   | .100  | 15   | N    | N    | 30  | 100  | 1.0  | N    | 5    | 15   | 20   | N    |
| 09610530 | 29   | .50   | .10   | .10   | .030  | 10   | N    | N    | 15  | 100  | <1.0 | N    | N    | N    | 5    | N    |
| 09610540 | 29   | 1.50  | 1.00  | 1.50  | .100  | 70   | N    | N    | 50  | 150  | 1.0  | N    | 5    | 20   | 20   | N    |
| 09610550 | 29   | .70   | 2.00  | 2.00  | .150  | 70   | N    | N    | 70  | 200  | 1.0  | N    | N    | 50   | 10   | N    |
| 09610560 | 29   | 1.00  | 1.00  | 1.00  | .070  | 100  | N    | N    | 30  | 100  | 1.0  | N    | N    | 15   | 10   | N    |
| 09610570 | 29   | 7.00  | 2.00  | 1.50  | .300  | 70   | N    | N    | 70  | 300  | 3.0  | N    | 15   | 100  | 50   | N    |
| 09610580 | 29   | 2.00  | .70   | .30   | .150  | 20   | N    | N    | 50  | 200  | 1.0  | N    | 5    | 50   | 15   | N    |
| 09610590 | 29   | 5.00  | .15   | .10   | .100  | 15   | N    | N    | 15  | 100  | N    | N    | 15   | 15   | 20   | N    |
| 09610600 | 29   | 2.00  | 1.00  | .50   | .200  | 30   | N    | N    | 50  | 300  | 1.5  | N    | 5    | 70   | 15   | N    |
| 09610610 | 29   | 1.50  | 5.00  | 5.00  | .200  | 150  | N    | N    | 70  | 200  | 2.0  | N    | <5   | 100  | 30   | N    |
| 09610620 | 29   | 5.00  | .70   | .20   | .200  | 100  | N    | N    | 50  | 300  | 1.0  | N    | 15   | 70   | 100  | N    |
| 09610630 | 29   | .50   | .20   | .30   | .030  | 50   | N    | N    | 50  | 100  | N    | N    | N    | <10  | 10   | N    |
| 09610640 | 29   | 3.00  | .30   | .15   | .100  | 50   | N    | N    | 30  | 150  | N    | V    | 5    | 20   | 50   | N    |
| 09610650 | 29   | 2.00  | 5.00  | 7.00  | .150  | 70   | N    | N    | 50  | 200  | 1.5  | N    | 10   | 50   | 30   | N    |
| 09610660 | 29   | .50   | 1.00  | 1.00  | .050  | 30   | N    | N    | 30  | 150  | N    | N    | N    | 10   | 5    | N    |
| 09610670 | 29   | 2.00  | .30   | .15   | .300  | 30   | N    | N    | 30  | 700  | N    | N    | 7    | 30   | 20   | N    |
| 09610680 | 29   | 2.00  | 3.00  | 2.00  | .200  | 50   | N    | N    | 50  | 300  | 1.0  | N    | 5    | 50   | 20   | N    |
| 09610690 | 29   | 2.00  | 1.00  | .50   | .200  | 50   | <.5  | N    | 50  | 500  | 1.0  | N    | 7    | 70   | 70   | N    |
| 09610700 | 29   | .30   | .20   | .20   | .030  | 10   | N    | N    | 30  | 100  | N    | N    | N    | N    | 7    | N    |
| 09610710 | 29   | .50   | 1.00  | 1.50  | .070  | 30   | N    | N    | 30  | 100  | N    | N    | N    | 15   | 10   | N    |
| 09610720 | 29   | 2.00  | 1.50  | 2.00  | .200  | 70   | N    | N    | 70  | 200  | 2.0  | N    | 10   | 100  | 30   | N    |
| 09610730 | 29   | 2.00  | .70   | .30   | .200  | 50   | N    | N    | 50  | 200  | 1.0  | N    | 15   | 50   | 50   | N    |
| 09610740 | 29   | 2.00  | .70   | .30   | .150  | 50   | N    | N    | 50  | 200  | 1.5  | N    | <5   | 50   | 20   | N    |
| 09610750 | 29   | 2.00  | .70   | .30   | .150  | 50   | N    | N    | 30  | 200  | 1.0  | N    | 7    | 50   | 30   | N    |
| 09610760 | 29   | 3.00  | 1.00  | .50   | .200  | 50   | N    | N    | 50  | 500  | 1.5  | N    | 15   | 100  | 30   | N    |
| 09610770 | 29   | 3.00  | 2.00  | 1.50  | .200  | 50   | N    | N    | 50  | 300  | 1.5  | N    | 10   | 100  | 30   | N    |
| 09610780 | 29   | 5.00  | 1.00  | .30   | .300  | 50   | <.5  | N    | 50  | 300  | 1.5  | N    | 10   | 150  | 70   | N    |
| 09610790 | 29   | 2.00  | .70   | .30   | .150  | 50   | N    | N    | 30  | 200  | 1.0  | N    | 7    | 70   | 30   | N    |
| 09610800 | 29   | .50   | 1.00  | 1.50  | .050  | 30   | N    | N    | 30  | 100  | N    | N    | N    | <10  | 30   | N    |
| 09610810 | 29   | 2.00  | .70   | .30   | .150  | 50   | N    | N    | 50  | 150  | 1.5  | N    | 7    | 50   | 30   | N    |
| 09610820 | 28   | .15   | .05   | .10   | .005  | N    | N    | N    | 30  | 20   | N    | N    | N    | N    | 5    | N    |
| 09610830 | 28   | .10   | .03   | .07   | .002  | N    | N    | N    | 30  | 20   | N    | N    | N    | N    | <5   | N    |
| 09610840 | 28   | 1.50  | .50   | .10   | .070  | 30   | N    | N    | 30  | 200  | 1.0  | N    | N    | 20   | 15   | N    |
| 09610850 | 28   | 2.00  | 1.00  | 1.00  | .200  | 50   | <.5  | N    | 50  | 300  | 2.0  | N    | 10   | 100  | 30   | N    |
| 09610860 | 28   | 2.00  | 1.00  | .20   | .150  | 50   | N    | N    | 50  | 200  | 1.5  | N    | 10   | 70   | 30   | N    |
| 09610870 | 28   | 3.00  | 1.00  | .50   | .150  | 50   | N    | N    | 30  | 200  | 2.0  | N    | 10   | 70   | 50   | N    |
| 09610880 | 28   | 3.00  | 1.00  | .50   | .200  | 50   | N    | N    | 30  | 200  | 1.0  | N    | 10   | 50   | 50   | N    |
| 09610890 | 28   | 5.00  | 1.00  | .50   | .150  | 100  | N    | N    | 30  | 200  | 1.5  | N    | 15   | 50   | 50   | N    |
| 09610900 | 28   | 3.00  | 1.50  | 1.50  | .300  | 70   | N    | N    | 50  | 300  | 3.0  | N    | 20   | 150  | 70   | N    |
| 09610910 | 28   | .15   | .05   | .05   | .010  | N    | N    | N    | 30  | 20   | N    | N    | N    | N    | 5    | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09610470 | N    | N    | N    | N    | N    | N    | <100 | N   | N   | N    | N    | <5    |
| 09610480 | N    | N    | N    | N    | N    | N    | N    | 10  | N   | N    | 30   | <5    |
| 09610490 | N    | N    | 15   | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09610500 | N    | N    | N    | N    | N    | N    | 150  | N   | N   | N    | 20   | <5    |
| 09610510 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09610520 | N    | N    | 5    | <10  | N    | N    | N    | 15  | N   | N    | 50   | <5    |
| 09610530 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 09610540 | N    | N    | 15   | <10  | N    | N    | N    | 20  | N   | N    | 70   | <5    |
| 09610550 | N    | N    | 10   | <10  | N    | N    | N    | 50  | N   | N    | 100  | <5    |
| 09610560 | <5   | N    | 7    | <10  | N    | N    | N    | 20  | N   | N    | 100  | <5    |
| 09610570 | 20   | N    | 50   | 30   | 7    | N    | N    | 100 | N   | N    | 100  | 5     |
| 09610580 | 5    | N    | 20   | 10   | N    | N    | N    | 50  | N   | N    | 100  | 5     |
| 09610590 | 15   | N    | 30   | 15   | N    | N    | N    | <10 | N   | N    | 70   | 5     |
| 09610600 | 7    | N    | 15   | 10   | N    | N    | N    | 50  | N   | N    | 100  | 5     |
| 09610610 | 5    | N    | 15   | 20   | 5    | N    | N    | 100 | N   | N    | 70   | 5     |
| 09610620 | 30   | N    | 50   | 70   | N    | N    | N    | 50  | 10  | N    | 200  | --    |
| 09610630 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | 5     |
| 09610640 | 10   | N    | 20   | 30   | N    | N    | N    | 20  | N   | N    | 70   | 10    |
| 09610650 | 20   | N    | 30   | 20   | <5   | N    | <100 | 70  | N   | N    | 70   | 5     |
| 09610660 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09610670 | 15   | N    | 30   | 20   | N    | N    | N    | 20  | 10  | N    | 300  | --    |
| 09610680 | 7    | N    | 20   | 30   | <5   | N    | N    | 70  | <10 | N    | 100  | 5     |
| 09610690 | 50   | N    | 30   | 50   | N    | N    | N    | 50  | <10 | N    | 200  | 5     |
| 09610700 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09610710 | 10   | N    | 7    | <10  | N    | N    | <100 | 20  | N   | N    | 30   | <5    |
| 09610720 | 10   | N    | 30   | 20   | <5   | N    | N    | 70  | N   | N    | 70   | 10    |
| 09610730 | 30   | N    | 30   | 20   | N    | N    | N    | 50  | N   | N    | 100  | 10    |
| 09610740 | 15   | N    | 20   | 15   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 09610750 | 15   | N    | 20   | 20   | N    | N    | N    | 50  | N   | N    | 70   | 10    |
| 09610760 | 15   | N    | 50   | 20   | <5   | N    | N    | 70  | 10  | N    | 150  | 10    |
| 09610770 | 10   | N    | 30   | 20   | <5   | N    | N    | 70  | 10  | N    | 100  | 10    |
| 09610780 | 30   | N    | 50   | 50   | 5    | N    | N    | 100 | N   | N    | 100  | 10    |
| 09610790 | 15   | N    | 20   | 15   | N    | N    | N    | 50  | N   | N    | 70   | 10    |
| 09610800 | 7    | N    | 5    | <10  | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09610810 | 10   | N    | 20   | 15   | N    | N    | N    | 50  | N   | N    | 70   | 5     |
| 09610820 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09610830 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | 10    |
| 09610840 | N    | N    | 10   | <10  | N    | N    | N    | 15  | N   | N    | 150  | <5    |
| 09610850 | 5    | N    | 30   | 20   | <5   | N    | N    | 100 | <10 | N    | 150  | <5    |
| 09610860 | 20   | N    | 30   | 20   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 09610870 | 50   | N    | 20   | 20   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 09610880 | 15   | N    | 20   | 20   | N    | N    | N    | 50  | N   | N    | 70   | 5     |
| 09610890 | 15   | N    | 30   | 20   | N    | N    | N    | 50  | N   | N    | 70   | 5     |
| 09610900 | 20   | N    | 50   | 30   | 5    | N    | N    | 150 | <10 | N    | 100  | 5     |
| 09610910 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09610920 | 28   | 3.00  | .70   | .30   | .200  | 50   | .7   | N    | 50  | 200  | 2.0  | N    | 20   | 100  | 100  | N    |
| 09610930 | 28   | .50   | .10   | .10   | .030  | 10   | N    | N    | 30  | 50   | N    | N    | N    | N    | 10   | N    |
| 09610940 | 28   | .70   | .70   | .70   | .070  | 15   | N    | N    | 30  | 100  | 1.0  | N    | N    | 20   | 15   | N    |
| 09610950 | 28   | .20   | .20   | .30   | .020  | 15   | N    | N    | 20  | 70   | N    | N    | N    | N    | 7    | N    |
| 09610960 | 28   | 2.00  | 1.00  | .50   | .150  | 30   | N    | N    | 50  | 150  | 2.0  | N    | 7    | 50   | 20   | N    |
| 09610970 | 28   | 1.50  | .50   | .30   | .100  | 50   | N    | N    | 30  | 150  | 1.0  | N    | 5    | 20   | 20   | N    |
| 09610980 | 28   | .70   | 1.00  | 1.50  | .050  | 30   | N    | N    | 20  | 70   | N    | N    | <5   | 15   | 15   | N    |
| 09610990 | 28   | 3.00  | 1.00  | .20   | .200  | 50   | N    | N    | 50  | 300  | 1.5  | N    | 10   | 100  | 50   | N    |
| 09611000 | 28   | 2.00  | 1.00  | 1.00  | .150  | 50   | N    | N    | 50  | 150  | 1.0  | N    | 5    | 50   | 30   | N    |
| 09611010 | 28   | 1.00  | .70   | .70   | .100  | 20   | N    | N    | 50  | 100  | <1.0 | N    | <5   | 20   | 20   | N    |
| 09611020 | 28   | 1.00  | .70   | .70   | .100  | 20   | N    | N    | 50  | 100  | <1.0 | N    | <5   | 20   | 20   | N    |
| 09611030 | 28   | 1.50  | .30   | .15   | .100  | 15   | N    | N    | 50  | 100  | 1.0  | N    | <5   | 30   | 20   | N    |
| 09611040 | 28   | .50   | .20   | .15   | .050  | 10   | N    | N    | 20  | 70   | N    | N    | N    | N    | 7    | N    |
| 09611050 | 28   | 5.00  | 1.00  | .10   | .300  | 70   | <.5  | N    | 70  | 500  | 2.0  | N    | 20   | 150  | 100  | N    |
| 09611060 | 28   | .50   | .10   | .10   | .020  | N    | N    | N    | 30  | 50   | N    | N    | N    | N    | 5    | N    |
| 09611070 | 28   | 1.50  | .30   | .07   | .100  | 20   | N    | N    | 50  | 150  | 1.5  | N    | 5    | 30   | 20   | N    |
| 09611080 | 28   | 3.00  | 1.00  | .50   | .150  | 50   | N    | N    | 50  | 200  | 1.5  | N    | 10   | 70   | 70   | N    |
| 09611090 | 28   | 1.00  | .70   | .50   | .100  | 20   | N    | N    | 50  | 150  | 1.0  | N    | 5    | 15   | 30   | N    |
| 09611100 | 20   | 1.00  | .70   | .50   | .100  | 20   | N    | N    | 50  | 100  | <1.0 | N    | 5    | 20   | 15   | N    |
| 09611110 | 20   | .50   | .15   | .10   | .020  | N    | N    | N    | 20  | 70   | N    | N    | N    | N    | 5    | N    |
| 09611120 | 20   | 1.50  | .50   | .20   | .100  | 30   | N    | N    | 30  | 150  | 1.5  | N    | <5   | 20   | 20   | N    |
| 09611130 | 20   | 2.00  | .70   | .20   | .100  | 50   | <.5  | N    | 50  | 200  | 1.5  | N    | 10   | 50   | 50   | N    |
| 09611140 | 20   | 2.00  | .70   | .30   | .100  | 30   | N    | N    | 50  | 100  | 1.0  | N    | 7    | 30   | 20   | N    |
| 09611150 | 20   | 1.00  | .20   | .10   | .150  | 15   | N    | N    | 20  | 50   | N    | N    | N    | 10   | 15   | N    |
| 09611160 | 20   | .20   | .15   | .15   | .020  | 10   | N    | N    | 20  | 50   | N    | N    | N    | N    | 7    | N    |
| 09611170 | 20   | .50   | .10   | .05   | .020  | 10   | N    | N    | 20  | 70   | N    | N    | N    | N    | 7    | N    |
| 09611180 | 20   | .30   | .15   | .15   | .010  | 15   | N    | N    | 20  | 70   | N    | N    | N    | N    | 5    | N    |
| 09611190 | 20   | .20   | .03   | .05   | .005  | N    | N    | N    | 20  | 20   | N    | N    | N    | N    | 5    | N    |
| 09611200 | 20   | .20   | .10   | .05   | .010  | N    | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    |
| 09611210 | 20   | .50   | .20   | .10   | .050  | 10   | N    | N    | 20  | 50   | N    | N    | N    | <10  | 7    | N    |
| 09611220 | 20   | .15   | .05   | .05   | .010  | 10   | N    | N    | 30  | 50   | N    | N    | N    | N    | 5    | N    |
| 09611230 | 20   | 1.00  | .15   | .07   | .070  | 15   | N    | N    | 20  | 70   | 1.0  | N    | N    | 10   | 15   | N    |
| 09611240 | 20   | .50   | .10   | .07   | .010  | N    | N    | N    | 20  | 50   | N    | N    | N    | N    | 5    | N    |
| 09611250 | 20   | .07   | .03   | .05   | .002  | N    | N    | N    | 10  | 20   | N    | N    | N    | N    | <5   | N    |
| 09611260 | 20   | 1.50  | .10   | .05   | .050  | 20   | N    | N    | 10  | 70   | <1.0 | N    | 5    | 10   | 50   | N    |
| 09611270 | 19   | 7.00  | 1.00  | .10   | .300  | 70   | .7   | N    | 200 | 100  | 5.0  | N    | 15   | 100  | 70   | N    |
| 09611280 | 19   | 15.00 | 2.00  | 1.50  | .300  | 70   | 1.5  | N    | 200 | 100  | 5.0  | N    | 20   | 100  | 150  | N    |
| 09611290 | 19   | 10.00 | 1.50  | .15   | .300  | 50   | .7   | N    | 200 | 100  | 7.0  | N    | 15   | 100  | 100  | N    |
| 09611300 | 19   | 7.00  | .50   | .07   | .070  | 30   | .5   | N    | 70  | N    | 1.5  | N    | 10   | 20   | 30   | N    |
| 09611310 | 19   | 20.00 | .50   | .10   | .050  | 30   | .5   | 200  | 20  | N    | N    | N    | 10   | 15   | 50   | N    |
| 09611320 | 19   | .50   | .07   | .07   | .005  | N    | N    | N    | 30  | 30   | N    | N    | N    | N    | 5    | N    |
| 09611330 | 19   | 1.00  | .10   | .15   | .002  | N    | N    | N    | 15  | 20   | N    | N    | N    | N    | <5   | N    |
| 09611340 | 19   | 1.00  | .20   | .10   | .020  | 10   | N    | N    | 20  | 30   | <1.0 | N    | N    | <10  | 7    | N    |
| 09611350 | 19   | .07   | .05   | .07   | .003  | N    | N    | N    | 15  | 20   | N    | N    | N    | N    | 5    | N    |
| 09611360 | 19   | .20   | .10   | .15   | .005  | 15   | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 096I0920 | 15   | N    | 50   | 20   | <5   | N    | N    | 200 | N   | N    | 70   | 10    |
| 096I0930 | <5   | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 096I0940 | N    | N    | 10   | <10  | N    | N    | N    | 30  | N   | N    | 20   | <5    |
| 096I0950 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 096I0960 | N    | N    | 20   | 10   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 096I0970 | 10   | N    | 15   | 10   | N    | N    | N    | 30  | N   | N    | 50   | 5     |
| 096I0980 | <5   | N    | 7    | <10  | N    | N    | N    | 20  | N   | N    | 20   | <5    |
| 096I0990 | 20   | N    | 30   | 20   | <5   | N    | N    | 100 | N   | N    | 70   | 10    |
| 096I1000 | 20   | N    | 20   | 10   | N    | N    | N    | 70  | N   | N    | 50   | 10    |
| 096I1010 | 15   | N    | 15   | <10  | N    | N    | N    | 30  | N   | N    | 20   | --    |
| 096I1020 | 10   | N    | 15   | <10  | N    | N    | N    | 30  | N   | N    | 30   | 5     |
| 096I1030 | 5    | N    | 15   | <10  | N    | N    | N    | 50  | N   | N    | 30   | <5    |
| 096I1040 | N    | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 096I1050 | 20   | N    | 70   | 20   | 5    | N    | N    | 100 | <10 | N    | 100  | 15    |
| 096I1060 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | N     |
| 096I1070 | 5    | N    | 20   | <10  | N    | N    | N    | 30  | N   | N    | 50   | <5    |
| 096I1080 | 20   | N    | 30   | 30   | N    | N    | N    | 70  | N   | N    | 50   | 10    |
| 096I1090 | <5   | N    | 15   | 10   | N    | N    | N    | 20  | N   | N    | 30   | <5    |
| 096I1100 | <5   | N    | 10   | <10  | N    | N    | N    | 30  | N   | N    | 30   | <5    |
| 096I1110 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 096I1120 | <5   | N    | 10   | 15   | N    | N    | N    | 20  | N   | N    | 70   | <5    |
| 096I1130 | 5    | N    | 20   | 20   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 096I1140 | 7    | N    | 20   | 20   | N    | N    | N    | 50  | N   | N    | 50   | <5    |
| 096I1150 | N    | N    | 7    | N    | N    | N    | N    | 15  | N   | N    | 30   | <5    |
| 096I1160 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 096I1170 | <5   | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | N     |
| 096I1180 | 15   | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | N     |
| 096I1190 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 096I1200 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 096I1210 | N    | N    | 5    | N    | N    | N    | N    | 15  | N   | N    | 100  | <5    |
| 096I1220 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 096I1230 | N    | N    | 10   | 15   | N    | N    | N    | 10  | N   | N    | 50   | <5    |
| 096I1240 | N    | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 096I1250 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 096I1260 | 20   | N    | 15   | 30   | N    | N    | N    | 10  | N   | N    | 50   | <5    |
| 096I1270 | 100  | N    | 50   | 150  | 5    | N    | N    | 100 | 10  | N    | 200  | --    |
| 096I1280 | 100  | N    | 70   | 200  | <5   | N    | N    | 100 | <10 | N    | 70   | --    |
| 096I1290 | 70   | N    | 50   | 100  | 5    | N    | N    | 100 | 10  | N    | 100  | --    |
| 096I1300 | 15   | N    | 30   | 100  | N    | N    | N    | 30  | N   | N    | 50   | --    |
| 096I1310 | 10   | N    | 30   | 200  | N    | N    | N    | 20  | N   | N    | 15   | --    |
| 096I1320 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 096I1330 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 096I1340 | 15   | N    | 5    | N    | N    | N    | N    | 10  | N   | N    | 10   | <5    |
| 096I1350 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 096I1360 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |

| Sample   | FORM | S-FEZ  | S-HGZ | S-CAZ | S-TI4 | S-MN | S-AG | S-AS    | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU  | S-LA |
|----------|------|--------|-------|-------|-------|------|------|---------|-----|------|------|------|------|------|-------|------|
| 096I1370 | 19   | .50    | .10   | .10   | .005  | 50   | N    | N       | 20  | N    | N    | N    | N    | N    | 5     | N    |
| 096I1380 | 19   | .50    | .20   | .30   | .010  | 10   | N    | N       | 20  | N    | N    | N    | N    | N    | 7     | N    |
| 096I1390 | 19   | .30    | .10   | .15   | .002  | N    | N    | N       | 15  | 20   | N    | N    | N    | N    | 5     | N    |
| 096I1400 | 19   | .20    | .05   | .07   | .005  | N    | N    | N       | 15  | 30   | N    | N    | N    | N    | <5    | N    |
| 096I1410 | 19   | .20    | .10   | .07   | .030  | N    | N    | N       | 20  | 30   | N    | N    | N    | <10  | 7     | N    |
| 096I1420 | 19   | 3.00   | 1.00  | .10   | .300  | 50   | .5   | N       | 100 | 200  | 3.0  | N    | 20   | 100  | 50    | N    |
| 096I1430 | 19   | 1.00   | .50   | .07   | .150  | 10   | 1.0  | N       | 50  | 150  | 1.0  | N    | 5    | 30   | 15    | N    |
| 096I1440 | 19   | 3.00   | .70   | .07   | .200  | 50   | 1.0  | N       | 70  | 200  | 5.0  | N    | 30   | 70   | 200   | N    |
| 096I1450 | 19   | 2.00   | .50   | .10   | .100  | 15   | N    | N       | 30  | 150  | 1.0  | N    | 10   | 20   | 70    | N    |
| 096I1460 | 19   | .20    | .10   | .10   | .015  | N    | N    | N       | 15  | N    | N    | N    | N    | N    | 5     | N    |
| 096I1470 | 19   | 1.50   | .10   | .07   | .030  | 10   | N    | N       | 10  | N    | N    | N    | N    | N    | 30    | N    |
| 096I1480 | 19   | 5.00   | 2.00  | .10   | .500  | 70   | .5   | 200     | 100 | 300  | 5.0  | N    | 30   | 150  | 100   | N    |
| 096I1490 | 19   | .70    | .20   | .10   | .070  | N    | <.5  | N       | 20  | N    | N    | N    | 5    | 10   | 100   | N    |
| 096I1500 | 19   | >20.00 | .10   | .10   | .100  | 50   | 5.0  | 3,000   | N   | 200  | N    | N    | 30   | 10   | 200   | N    |
| 096I1510 | 19   | 1.00   | .15   | .05   | .050  | 10   | N    | N       | 30  | 70   | N    | N    | N    | 10   | 20    | N    |
| 096I1520 | 19   | 1.00   | .50   | .30   | .070  | 20   | N    | N       | 20  | 150  | 1.0  | N    | <5   | <10  | 20    | N    |
| 096I1530 | 19   | 2.00   | .20   | .10   | .070  | 10   | N    | N       | 30  | 100  | N    | N    | 5    | <10  | 20    | N    |
| 096I1540 | 19   | .50    | .15   | .05   | .020  | 15   | N    | N       | 15  | 30   | N    | N    | N    | N    | 20    | N    |
| 096I1550 | 19   | .50    | .20   | .30   | .007  | N    | N    | N       | 20  | N    | N    | N    | N    | N    | 10    | N    |
| 096I1560 | 18   | .07    | .05   | .05   | .007  | N    | N    | N       | N   | N    | N    | N    | N    | N    | N     | N    |
| 096I1570 | 18   | .15    | .10   | .05   | .010  | N    | N    | N       | N   | 20   | N    | N    | N    | N    | N     | N    |
| 096I1580 | 17   | .20    | .10   | .05   | .015  | 10   | N    | N       | 15  | 20   | N    | N    | N    | N    | 5     | N    |
| 096I1590 | 17   | .20    | .05   | .05   | .007  | N    | N    | N       | 10  | 20   | N    | N    | N    | N    | 5     | N    |
| 096I1600 | 17   | 1.00   | .10   | <.05  | .050  | <10  | N    | N       | 10  | 30   | N    | N    | <5   | <10  | 20    | N    |
| 096I1610 | 17   | >20.00 | .15   | .05   | .010  | 20   | 1.5  | 1,500   | N   | N    | N    | N    | 10   | N    | 70    | N    |
| 096I1620 | 17   | 10.00  | .70   | .20   | .150  | 30   | 2.0  | 1,000   | 50  | 100  | 2.0  | N    | 15   | 30   | 200   | N    |
| 096I1630 | 17   | 1.00   | .50   | .30   | .050  | <10  | N    | N       | 20  | 20   | N    | N    | N    | <10  | 20    | N    |
| 096I1640 | 17   | 1.50   | .50   | .05   | .100  | 15   | N    | N       | 70  | 30   | 2.0  | N    | 5    | 15   | 50    | N    |
| 096I1650 | 17   | .50    | .15   | .15   | .005  | N    | N    | N       | 20  | N    | N    | N    | N    | N    | 10    | N    |
| 096I1660 | 17   | 5.00   | 1.00  | .50   | .200  | 70   | 1.5  | 200     | 200 | 100  | 5.0  | N    | 20   | 70   | 150   | N    |
| 096I1670 | 17   | 5.00   | 1.50  | .07   | .200  | 30   | .7   | N       | 150 | 70   | 3.0  | N    | 15   | 50   | 100   | N    |
| 096I1680 | 17   | .70    | .50   | .05   | .070  | 10   | <.5  | N       | 70  | 50   | 2.0  | N    | 5    | 10   | 20    | N    |
| 096I1690 | 17   | 5.00   | 2.00  | .10   | .500  | 50   | 1.5  | N       | 200 | 150  | 5.0  | N    | 50   | 100  | 200   | N    |
| 096I1700 | 17   | 10.00  | 1.00  | .10   | .300  | 50   | 2.0  | 1,500   | 150 | 100  | 3.0  | N    | 20   | 70   | 200   | N    |
| 096I1720 | 17   | 20.00  | .05   | <.05  | .007  | 50   | 3.0  | >10,000 | N   | N    | N    | N    | 10   | N    | 300   | N    |
| 096I1730 | 17   | 20.00  | <.02  | <.05  | .002  | 50   | 2.0  | 5,000   | N   | N    | N    | N    | 20   | N    | 200   | N    |
| 096I1740 | 17   | 20.00  | .50   | .10   | .070  | 100  | 5.0  | 1,500   | 10  | 500  | 1.0  | N    | 15   | 10   | 1,000 | N    |
| 096I1750 | 17   | 20.00  | .30   | <.05  | .500  | 50   | 2.0  | 2,000   | 70  | 100  | 1.5  | N    | 15   | 10   | 300   | N    |
| 096I1760 | 16   | 15.00  | .70   | .20   | .200  | 50   | 1.0  | N       | 30  | 200  | 1.0  | N    | 50   | 20   | 200   | N    |
| 096I1770 | 16   | 5.00   | 1.00  | .10   | .300  | 50   | N    | N       | 30  | 500  | 1.5  | N    | 10   | 50   | 100   | 30   |
| 096I1780 | 16   | 5.00   | 1.00  | .20   | .300  | 70   | <.5  | N       | 30  | 500  | 1.5  | N    | 15   | 30   | 70    | 70   |
| 096I1790 | 16   | 5.00   | 1.00  | .20   | .500  | 70   | <.5  | N       | 50  | 700  | 1.5  | N    | 10   | 50   | 100   | 70   |
| 096I1800 | 15   | 5.00   | 1.50  | .20   | .500  | 70   | <.5  | N       | 50  | 700  | 1.5  | N    | 15   | 50   | 70    | 100  |
| 096I1810 | 15   | 5.00   | 1.50  | .30   | .300  | 70   | N    | N       | 50  | 700  | 3.0  | N    | 15   | 50   | 70    | 70   |
| 096I1820 | 15   | 5.00   | .70   | .15   | .500  | 50   | N    | N       | 30  | 700  | 2.0  | N    | 10   | 20   | 50    | 100  |

| Sample   | S-MO  | S-NU | S-NI | S-PA | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR   | AA-ZN |
|----------|-------|------|------|------|------|------|------|-----|-----|------|--------|-------|
| 09611370 | 15    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N      | <5    |
| 09611380 | 7     | N    | N    | N    | N    | N    | N    | N   | N   | N    | N      | <5    |
| 09611390 | 5     | N    | N    | N    | N    | N    | N    | N   | N   | N    | N      | <5    |
| 09611400 | N     | N    | N    | N    | N    | N    | N    | N   | N   | N    | N      | <5    |
| 09611410 | 7     | N    | N    | N    | N    | N    | N    | 15  | N   | N    | 50     | N     |
| 09611420 | 20    | N    | 50   | 50   | 7    | N    | N    | 700 | N   | N    | 100    | <5    |
| 09611430 | 10    | N    | 15   | 10   | N    | N    | N    | 100 | N   | N    | 50     | <5    |
| 09611440 | 50    | N    | 100  | 100  | 5    | N    | N    | 300 | N   | N    | 70     | 30    |
| 09611450 | >100  | N    | 50   | 30   | N    | N    | N    | 100 | N   | N    | 50     | <5    |
| 09611460 | 50    | N    | 5    | N    | N    | N    | N    | N   | N   | N    | N      | N     |
| 09611470 | 10    | N    | 15   | 10   | N    | N    | N    | N   | N   | N    | 15     | --    |
| 09611480 | 200   | N    | 100  | 100  | 10   | N    | <100 | 200 | 10  | N    | 100    | 10    |
| 09611490 | 200   | N    | 20   | 15   | N    | N    | N    | 50  | N   | N    | 20     | --    |
| 09611500 | 300   | N    | 200  | 300  | N    | N    | N    | 15  | N   | N    | 200    | --    |
| 09611510 | 20    | N    | 10   | N    | N    | N    | N    | 15  | N   | N    | 50     | <5    |
| 09611520 | 20    | N    | 7    | 10   | N    | N    | N    | 10  | N   | N    | 150    | --    |
| 09611530 | 10    | N    | 15   | 20   | N    | N    | N    | 10  | N   | N    | 100    | --    |
| 09611540 | <5    | N    | >    | <10  | N    | N    | N    | N   | N   | N    | 30     | 10    |
| 09611550 | 7     | N    | 5    | N    | N    | N    | N    | N   | N   | N    | N      | N     |
| 09611560 | N     | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20     | N     |
| 09611570 | N     | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20     | <5    |
| 09611580 | 30    | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30     | <5    |
| 09611590 | 5     | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10     | 5     |
| 09611600 | 5     | N    | 10   | N    | N    | N    | N    | N   | N   | N    | 50     | <5    |
| 09611610 | 100   | N    | 30   | 200  | N    | N    | N    | N   | N   | N    | N      | --    |
| 09611620 | 100   | N    | 70   | 200  | N    | N    | N    | 50  | N   | N    | 100    | --    |
| 09611630 | 7     | N    | 10   | 15   | N    | N    | N    | 10  | N   | N    | 30     | --    |
| 09611640 | 50    | N    | 20   | 15   | N    | N    | N    | 70  | N   | N    | 50     | <5    |
| 09611650 | N     | N    | N    | N    | N    | N    | N    | N   | N   | N    | N      | 10    |
| 09611660 | 150   | N    | 50   | 200  | <5   | N    | N    | 150 | 10  | N    | 150    | --    |
| 09611670 | 70    | N    | 50   | 150  | N    | N    | N    | 70  | <10 | N    | 100    | --    |
| 09611680 | 50    | N    | 15   | 15   | N    | N    | N    | 50  | N   | N    | 20     | <5    |
| 09611690 | 1,500 | N    | 100  | 150  | 5    | 10   | N    | 500 | 10  | N    | 150    | --    |
| 09611700 | 70    | N    | 100  | 200  | N    | N    | N    | 200 | 20  | N    | 700    | --    |
| 09611720 | 70    | N    | 70   | 500  | N    | N    | N    | N   | N   | N    | N      | --    |
| 09611730 | 100   | N    | 70   | 500  | N    | N    | N    | N   | N   | N    | N      | 55    |
| 09611740 | 30    | N    | 50   | 500  | N    | N    | <100 | 20  | N   | N    | 100    | --    |
| 09611750 | 20    | N    | 30   | 500  | N    | N    | N    | 50  | 50  | 500  | >1,000 | --    |
| 09611760 | 50    | N    | 70   | 200  | N    | N    | N    | 20  | <10 | N    | 100    | 20    |
| 09611770 | 30    | N    | 30   | 150  | <5   | N    | N    | 50  | 15  | N    | 200    | --    |
| 09611780 | 15    | N    | 20   | 150  | <5   | N    | N    | 50  | 20  | N    | 200    | 15    |
| 09611790 | 20    | <20  | 30   | 200  | 5    | N    | N    | 70  | 30  | N    | 500    | 15    |
| 09611800 | 15    | <20  | 20   | 100  | 5    | N    | <100 | 70  | 30  | N    | 300    | 15    |
| 09611810 | 15    | <20  | 20   | 100  | 7    | N    | <100 | 50  | 30  | N    | 300    | 10    |
| 09611820 | 5     | <20  | 10   | 70   | N    | N    | <100 | 50  | 30  | N    | 500    | 15    |



| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 09611830 | 15   | 3.00  | .70   | .10   | .300  | 50   | N    | N    | 20  | 700   | 1.5  | N    | 7    | 15   | 20   | 70   |
| 09611840 | 15   | 2.00  | 1.00  | .20   | .300  | 50   | N    | N    | 30  | 1,000 | 2.0  | N    | 7    | 20   | 15   | 70   |
| 09611850 | 15   | 2.00  | 1.50  | 1.30  | .300  | 100  | N    | N    | 30  | 700   | 2.0  | N    | 10   | 15   | 10   | 50   |
| 09611860 | 15   | 2.00  | 1.00  | .20   | .300  | 50   | N    | N    | 50  | 1,000 | 5.0  | N    | 10   | 15   | 15   | 50   |
| 09611870 | 15   | 1.50  | .70   | .20   | .200  | 50   | N    | N    | 50  | 1,000 | 2.0  | N    | 7    | 10   | 10   | 50   |
| 09611880 | 12   | 3.00  | 1.50  | .50   | .200  | 100  | N    | N    | 70  | 700   | 10.0 | N    | 20   | 10   | 20   | 50   |
| 09611890 | 12   | 1.00  | .50   | .15   | .100  | 50   | N    | N    | 15  | 300   | 1.5  | N    | 5    | <10  | 10   | N    |
| 09611900 | 12   | 1.50  | .50   | .05   | .300  | 30   | N    | N    | 30  | 1,000 | 3.0  | N    | 10   | 15   | 15   | 50   |
| 09611910 | 12   | 1.00  | .50   | <.05  | .150  | 20   | N    | N    | 30  | 500   | 5.0  | N    | 7    | <10  | 15   | 20   |
| 09611920 | 12   | 1.00  | .70   | .07   | .200  | 20   | N    | N    | 50  | 700   | 5.0  | N    | <5   | 10   | 5    | 30   |
| 09611930 | 12   | 1.00  | .70   | .05   | .150  | 20   | N    | N    | 50  | 500   | 5.0  | N    | N    | 10   | 5    | 20   |
| 09611940 | 12   | 1.00  | .30   | .05   | .150  | 20   | N    | N    | 50  | 200   | 2.0  | N    | N    | <10  | 5    | 20   |
| 09611950 | 12   | .30   | .10   | <.05  | .050  | 10   | N    | N    | 10  | N     | <1.0 | N    | N    | N    | <5   | N    |
| 09611960 | 12   | .50   | .10   | <.05  | .150  | <10  | N    | N    | 20  | N     | 1.0  | N    | N    | N    | <5   | N    |
| 09611970 | 12   | 1.00  | .30   | <.05  | .300  | 10   | N    | N    | 50  | 100   | 1.0  | N    | N    | <10  | <5   | 30   |
| 09611980 | 12   | 1.50  | .70   | .05   | .300  | 100  | N    | N    | 30  | 700   | 1.0  | N    | <5   | 15   | <5   | 30   |
| 09611986 | 12   | 1.50  | .70   | .05   | .300  | 50   | N    | N    | 70  | 300   | 1.0  | N    | N    | 10   | <5   | 30   |

| Sample   | S-MU | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR   | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|--------|-------|
| 09611830 | 5    | N    | 10   | 50   | N    | N    | <100 | 50  | 30  | N    | 300    | 5     |
| 09611840 | 7    | <20  | 7    | 50   | N    | N    | <100 | 50  | 30  | N    | 300    | 5     |
| 09611850 | 5    | <20  | 7    | 30   | N    | N    | <100 | 50  | 30  | N    | 300    | <5    |
| 09611860 | 5    | N    | 7    | 30   | N    | N    | <100 | 50  | 20  | N    | 500    | <5    |
| 09611870 | N    | N    | 7    | 30   | N    | N    | <100 | 30  | 20  | N    | 500    | <5    |
| 09611880 | N    | N    | 20   | 50   | N    | N    | <100 | 50  | 20  | N    | 300    | <5    |
| 09611890 | N    | N    | N    | 10   | N    | N    | N    | 10  | 10  | N    | 500    | <5    |
| 09611900 | N    | <20  | 5    | 50   | 5    | N    | <100 | 50  | 30  | N    | 700    | <5    |
| 09611910 | N    | <20  | N    | 20   | N    | N    | N    | 20  | 15  | N    | 500    | <5    |
| 09611920 | N    | N    | N    | 15   | <5   | N    | N    | 30  | 20  | N    | 500    | <5    |
| 09611930 | N    | N    | N    | 10   | <5   | N    | N    | 20  | 20  | N    | 200    | <5    |
| 09611940 | N    | N    | N    | N    | N    | N    | N    | 15  | 20  | N    | 700    | <5    |
| 09611950 | N    | N    | N    | N    | N    | N    | N    | N   | 10  | N    | 500    | <5    |
| 09611960 | N    | N    | N    | N    | N    | N    | N    | <10 | 20  | N    | 1,000  | <5    |
| 09611970 | N    | N    | N    | N    | N    | N    | N    | 30  | 30  | N    | >1,000 | 5     |
| 09611980 | N    | N    | N    | N    | 7    | N    | N    | 50  | 30  | N    | 500    | 25    |
| 09611986 | N    | N    | N    | N    | 7    | N    | N    | 50  | 30  | N    | 300    | 13    |

TABLE 3.--Spectrographic analyses of insoluble-residue samples from drill hole no. 97.

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09710140 | 37   | 5.00  | 1.50  | .20   | .300  | 300  | N    | N    | 100 | 300  | 3.0  | 50   | 150  | 100  | 50   | 70   |
| 09710150 | 37   | 5.00  | 1.50  | .15   | .500  | 200  | N    | N    | 100 | 300  | 3.0  | 30   | 150  | 200  | 50   | 50   |
| 09710160 | 37   | 5.00  | 1.00  | .07   | .500  | 200  | N    | N    | 100 | 300  | 3.0  | 20   | 100  | 100  | 50   | 20   |
| 09710170 | 37   | 5.00  | 1.50  | .13   | .500  | 200  | N    | N    | 150 | 500  | 3.0  | 30   | 150  | 100  | 50   | 30   |
| 09710180 | 37   | .50   | .10   | .05   | .070  | 15   | N    | N    | 20  | 70   | N    | N    | <10  | 10   | N    | N    |
| 09710190 | 37   | .05   | .05   | <.05  | .010  | N    | N    | N    | 10  | N    | N    | N    | N    | <5   | N    | N    |
| 09710200 | 37   | .20   | .07   | <.05  | .020  | 10   | N    | N    | 15  | N    | N    | N    | N    | <5   | N    | N    |
| 09710210 | 37   | 5.00  | 1.50  | .10   | .300  | 50   | N    | N    | 100 | 300  | 3.0  | 15   | 150  | 15   | 30   | <5   |
| 09710220 | 37   | 5.00  | 2.00  | .30   | .500  | 70   | N    | N    | 100 | 500  | 3.0  | 20   | 150  | 20   | 50   | 10   |
| 09710230 | 37   | 5.00  | 1.50  | .30   | .300  | 50   | N    | N    | 100 | 300  | 2.0  | 20   | 100  | 20   | 50   | 100  |
| 09710240 | 29   | 2.00  | .70   | .15   | .200  | 50   | N    | N    | 100 | 300  | 1.5  | 15   | 50   | 20   | N    | 30   |
| 09710250 | 29   | 1.50  | .70   | .15   | .150  | 50   | N    | N    | 100 | 150  | 2.0  | 7    | 30   | 50   | N    | <5   |
| 09710260 | 29   | 2.00  | .70   | .07   | .150  | 50   | N    | N    | 70  | 300  | 1.5  | 7    | 30   | 30   | N    | 10   |
| 09710270 | 29   | 3.00  | 1.00  | .20   | .300  | 50   | N    | N    | 100 | 300  | 2.0  | 20   | 200  | 20   | 20   | 30   |
| 09710280 | 29   | 2.00  | .70   | .20   | .200  | 30   | N    | N    | 70  | 500  | 1.5  | 10   | 70   | 20   | N    | 7    |
| 09710290 | 29   | 2.00  | 1.00  | .10   | .200  | 30   | N    | N    | 100 | 200  | 3.0  | 10   | 70   | 15   | N    | N    |
| 09710300 | 29   | 1.50  | .70   | .07   | .200  | 20   | N    | N    | 70  | 200  | 1.5  | 7    | 100  | 20   | N    | 10   |
| 09710310 | 29   | 1.00  | .50   | .07   | .150  | 15   | N    | N    | 70  | 150  | 1.5  | 5    | 30   | 20   | N    | N    |
| 09710320 | 29   | 1.50  | .70   | .20   | .150  | 20   | N    | N    | 70  | 200  | 2.0  | 5    | 50   | 10   | N    | N    |
| 09710330 | 29   | .50   | .10   | .10   | .030  | 10   | N    | N    | 70  | 70   | N    | N    | N    | 20   | N    | N    |
| 09710340 | 29   | 1.50  | .20   | .20   | .070  | 15   | N    | N    | 70  | 150  | N    | N    | 10   | 15   | N    | 7    |
| 09710350 | 29   | 3.00  | 1.00  | .10   | .300  | 20   | N    | N    | 100 | 300  | 1.0  | 10   | 70   | 30   | N    | 10   |
| 09710360 | 29   | .07   | .10   | .07   | .015  | 10   | N    | N    | 15  | 150  | N    | N    | 15   | <5   | N    | N    |
| 09710370 | 29   | 10.00 | .50   | .30   | .100  | 50   | N    | N    | 50  | 200  | N    | 15   | 15   | 100  | N    | 50   |
| 09710380 | 29   | .20   | .07   | <.05  | .010  | N    | N    | N    | N   | 100  | N    | N    | N    | <5   | N    | N    |
| 09710390 | 29   | 10.00 | .70   | .07   | .500  | 50   | N    | N    | 50  | 300  | 1.5  | 20   | 150  | 200  | N    | 50   |
| 09710400 | 29   | 5.00  | 1.00  | .07   | .500  | 100  | N    | N    | 70  | 500  | 2.0  | 20   | 150  | 500  | N    | 20   |
| 09710410 | 29   | 1.50  | .30   | .50   | .030  | 20   | N    | N    | 70  | 70   | 1.0  | N    | N    | 50   | N    | N    |
| 09710420 | 29   | 1.50  | 1.00  | .20   | .300  | 30   | N    | N    | 100 | 300  | 1.5  | 7    | 70   | 50   | N    | N    |
| 09710430 | 29   | 1.00  | .50   | .50   | .070  | 15   | N    | N    | 100 | 150  | N    | 5    | 10   | 10   | N    | N    |
| 09710440 | 29   | 1.50  | .20   | .15   | .100  | 15   | N    | N    | 50  | 150  | N    | N    | 15   | 30   | N    | 7    |
| 09710450 | 29   | 5.00  | .70   | .20   | .200  | 50   | N    | N    | 70  | 200  | 1.0  | 15   | 50   | 100  | N    | 10   |
| 09710460 | 29   | 2.00  | 2.00  | 2.00  | .200  | 50   | <.5  | N    | 100 | 200  | 3.0  | 15   | 100  | 500  | N    | N    |
| 09710470 | 29   | 10.00 | .50   | .15   | .100  | 50   | <.5  | N    | 50  | 200  | 1.0  | 5    | 30   | 100  | N    | 20   |
| 09710480 | 29   | 1.50  | .15   | .15   | .020  | 15   | N    | N    | 30  | 70   | N    | N    | N    | 50   | N    | 5    |
| 09710490 | 29   | 5.00  | .50   | .10   | .300  | 20   | N    | N    | 70  | 300  | 1.5  | 10   | 70   | 100  | N    | 15   |
| 09710500 | 29   | 2.00  | .15   | .05   | .030  | N    | N    | N    | 20  | 70   | N    | N    | 10   | 20   | N    | <5   |
| 09710510 | 29   | 5.00  | .70   | .15   | .300  | 70   | N    | N    | 50  | 300  | 1.0  | 15   | 100  | 50   | N    | 10   |
| 09710520 | 29   | 1.50  | .20   | .10   | .100  | 10   | N    | N    | 30  | 100  | N    | 5    | 20   | 10   | N    | 5    |
| 09710530 | 29   | .50   | .05   | <.05  | .015  | N    | N    | N    | 15  | 200  | N    | N    | N    | <5   | N    | N    |
| 09710540 | 29   | .30   | .15   | .07   | .070  | N    | N    | N    | 15  | 300  | N    | N    | 15   | <5   | N    | N    |
| 09710550 | 29   | 1.00  | 1.00  | .30   | .300  | 20   | N    | N    | 70  | 500  | 1.5  | 5    | 100  | 20   | N    | N    |
| 09710560 | 29   | 20.00 | .70   | .50   | .100  | 10   | 2.0  | N    | 50  | 150  | 1.0  | 30   | 50   | 300  | N    | 50   |
| 09710570 | 29   | 3.00  | .50   | .15   | .200  | 30   | <.5  | N    | 70  | 500  | 1.0  | 15   | 50   | 100  | N    | 30   |
| 09710580 | 29   | .70   | .15   | .10   | .050  | N    | N    | N    | 50  | 150  | N    | N    | <10  | 15   | N    | N    |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09710140 | N    | 70   | 30   | 20   | N    | N    | 200 | 30  | N    | 100  | 110   |
| 09710150 | N    | 100  | 30   | 20   | N    | N    | 200 | 30  | N    | 100  | 100   |
| 09710160 | N    | 50   | 30   | 20   | N    | N    | 200 | 30  | N    | 100  | 75    |
| 09710170 | <20  | 70   | 50   | 20   | N    | N    | 200 | 30  | N    | 100  | 80    |
| 09710180 | N    | 5    | N    | N    | N    | N    | 10  | N   | N    | 50   | <5    |
| 09710190 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | N     |
| 09710200 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | N     |
| 09710210 | N    | 30   | 15   | 10   | N    | N    | 100 | 10  | N    | 100  | <5    |
| 09710220 | N    | 50   | 20   | 7    | N    | N    | 150 | 15  | N    | 150  | 5     |
| 09710230 | N    | 50   | 30   | 5    | N    | N    | 100 | <10 | N    | 100  | <5    |
| 09710240 | N    | 20   | 10   | <5   | N    | N    | >0  | N   | N    | 100  | <5    |
| 09710250 | N    | 15   | <10  | <5   | N    | N    | 30  | N   | N    | 70   | <5    |
| 09710260 | N    | 20   | 10   | <5   | N    | N    | 70  | <10 | N    | 100  | 10    |
| 09710270 | <20  | 50   | <10  | 5    | N    | N    | 150 | 10  | N    | 150  | <5    |
| 09710280 | N    | 20   | 10   | N    | N    | N    | 70  | 10  | N    | 200  | <5    |
| 09710290 | N    | 20   | 10   | <5   | N    | N    | 70  | N   | N    | 100  | <5    |
| 09710300 | N    | 20   | 10   | N    | N    | N    | 70  | N   | N    | 100  | <5    |
| 09710310 | N    | 10   | <10  | N    | N    | N    | 50  | N   | N    | 70   | 5     |
| 09710320 | N    | 15   | <10  | N    | N    | N    | 50  | N   | N    | 100  | <5    |
| 09710330 | N    | 5    | N    | N    | N    | 100  | N   | N   | N    | 20   | --    |
| 09710340 | N    | 7    | N    | N    | N    | N    | N   | N   | N    | 30   | 5     |
| 09710350 | N    | 20   | 15   | N    | N    | N    | 100 | N   | N    | 100  | 5     |
| 09710360 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09710370 | N    | 50   | 20   | N    | N    | N    | 15  | N   | N    | 100  | --    |
| 09710380 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 09710390 | <20  | 100  | 70   | <5   | N    | N    | 70  | 10  | N    | 100  | --    |
| 09710400 | <20  | 50   | 70   | 5    | N    | N    | 100 | 10  | N    | 150  | --    |
| 09710410 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 09710420 | N    | 20   | 20   | <5   | N    | N    | 70  | <10 | N    | 150  | <5    |
| 09710430 | N    | 5    | 10   | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 09710440 | N    | 10   | 10   | N    | N    | N    | <10 | N   | N    | 100  | <5    |
| 09710450 | N    | 50   | 30   | <5   | N    | N    | 50  | N   | N    | 70   | --    |
| 09710460 | N    | 30   | 20   | 5    | N    | N    | 100 | <10 | N    | 70   | 10    |
| 09710470 | N    | 20   | 15   | N    | N    | N    | 30  | N   | N    | 70   | <5    |
| 09710480 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 09710490 | N    | 50   | 50   | N    | N    | N    | 70  | 10  | N    | 200  | 10    |
| 09710500 | N    | 7    | N    | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 09710510 | N    | 50   | 70   | <5   | N    | N    | 100 | <10 | N    | 200  | <5    |
| 09710520 | N    | 15   | N    | N    | N    | N    | 15  | N   | N    | 50   | <5    |
| 09710530 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09710540 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 200  | <5    |
| 09710550 | N    | 10   | 20   | <5   | N    | <100 | 100 | 10  | N    | 300  | <5    |
| 09710560 | N    | 100  | 50   | N    | N    | N    | 30  | N   | N    | 50   | 10    |
| 09710570 | N    | 50   | 70   | N    | N    | <100 | 50  | <10 | N    | 200  | --    |
| 09710580 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 100  | <5    |

| Sample   | FORM | S-FEZ | S-MGZ | S-CAZ | S-TIZ | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CO. | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|-------|------|------|------|------|
| 09710590 | 29   | 7.00  | 1.50  | .20   | 1.000 | 70   | N    | N    | 100 | 700  | 1.0  | 30    | 200  | 150  | N    | 100  |
| 09710600 | 29   | .30   | .10   | .10   | .030  | N    | N    | N    | 10  | 100  | N    | N     | N    | 7    | N    | N    |
| 09710610 | 29   | 1.50  | 3.00  | 5.00  | .150  | 70   | N    | N    | 10  | 150  | 1.5  | 10    | 50   | 30   | N    | 20   |
| 09710620 | 29   | .15   | .20   | .30   | .010  | 10   | N    | N    | 30  | 50   | N    | N     | N    | 5    | N    | N    |
| 09710630 | 29   | 1.50  | .20   | .05   | .150  | 30   | N    | N    | 50  | 150  | 1.0  | 7     | 20   | 50   | N    | 5    |
| 09710640 | 29   | .50   | .20   | .30   | .030  | 15   | N    | N    | 30  | 50   | N    | N     | <10  | 10   | N    | N    |
| 09710650 | 29   | 1.50  | .30   | .05   | .150  | 20   | N    | N    | 50  | 100  | 1.0  | 5     | 20   | 30   | N    | 5    |
| 09710660 | 29   | 1.00  | .20   | .15   | .070  | 15   | N    | N    | 50  | 100  | 1.0  | 5     | 10   | 15   | N    | N    |
| 09710670 | 29   | 3.00  | 1.00  | .50   | .300  | 50   | N    | N    | 70  | 300  | 1.0  | 15    | 70   | 70   | N    | 20   |
| 09710680 | 29   | 1.00  | .50   | .20   | .100  | 15   | N    | N    | 50  | 100  | N    | 5     | 15   | 20   | N    | 15   |
| 09710690 | 29   | 2.00  | .70   | .70   | .200  | 50   | N    | N    | 50  | 200  | N    | 5     | 30   | 30   | N    | 10   |
| 09710700 | 29   | 5.00  | 1.00  | .10   | .500  | 70   | N    | N    | 100 | 700  | 1.5  | 20    | 200  | 150  | N    | 100  |
| 09710710 | 29   | 20.00 | .07   | .07   | .020  | 10   | N    | N    | N   | 50   | N    | 10    | N    | 100  | N    | 20   |
| 09710720 | 29   | .50   | .10   | .07   | .030  | N    | N    | N    | 20  | 100  | N    | N     | N    | 7    | N    | N    |
| 09710730 | 28   | .20   | .07   | .07   | .020  | N    | N    | N    | 20  | 50   | N    | N     | N    | 5    | N    | N    |
| 09710740 | 28   | .70   | .15   | .15   | .070  | 10   | N    | N    | 30  | 100  | N    | N     | 10   | 10   | N    | <5   |
| 09710750 | 28   | 2.00  | .50   | .30   | .200  | 50   | N    | N    | 50  | 300  | 1.5  | 7     | 70   | 50   | N    | 15   |
| 09710760 | 28   | .70   | .20   | .20   | .100  | 10   | N    | N    | 50  | 100  | N    | N     | 10   | 30   | N    | 15   |
| 09710770 | 28   | .30   | .20   | .15   | .020  | N    | N    | N    | 30  | 50   | N    | N     | 10   | 10   | N    | N    |
| 09710775 | 28   | 3.00  | .50   | .20   | .100  | 50   | N    | N    | 50  | 150  | 1.0  | 7     | 20   | 70   | N    | 7    |
| 09710790 | 28   | 1.50  | 2.00  | 3.00  | .070  | 50   | N    | N    | 30  | 150  | N    | 7     | 15   | 100  | N    | 7    |
| 09710800 | 28   | .15   | .15   | .10   | .007  | 15   | N    | N    | 50  | 30   | N    | N     | N    | 20   | N    | N    |
| 09710810 | 28   | .07   | .10   | .10   | .010  | 10   | N    | N    | 50  | 30   | N    | N     | N    | 200  | N    | N    |
| 09710820 | 28   | .07   | .70   | 1.50  | .010  | 20   | N    | N    | 50  | 50   | N    | N     | N    | 10   | N    | N    |
| 09710830 | 28   | .15   | .10   | .07   | .030  | 10   | N    | N    | 30  | 50   | N    | N     | <10  | 15   | N    | N    |
| 09710840 | 28   | .70   | 1.50  | 2.00  | .070  | 20   | N    | N    | 30  | 100  | N    | 5     | 15   | 15   | N    | 20   |
| 09710850 | 28   | .50   | 1.50  | 2.00  | .020  | 20   | N    | N    | 30  | 30   | N    | N     | N    | 7    | N    | N    |
| 09710860 | 28   | 1.00  | 2.00  | 2.00  | .100  | 50   | N    | N    | 50  | 100  | 1.5  | 7     | 30   | 30   | N    | 5    |
| 09710870 | 28   | .20   | .15   | .20   | .030  | 10   | N    | N    | 30  | 70   | N    | N     | N    | 10   | N    | N    |
| 09710880 | 28   | .20   | .20   | .30   | .020  | 15   | N    | N    | 30  | 50   | N    | N     | N    | 7    | N    | 15   |
| 09710890 | 28   | .30   | 1.00  | 2.00  | .030  | 20   | N    | N    | 15  | 20   | N    | N     | 10   | 15   | N    | 20   |
| 09710900 | 28   | .50   | .30   | .10   | .070  | 15   | N    | N    | 50  | 100  | N    | N     | 20   | 15   | N    | N    |
| 09710910 | 28   | .15   | .15   | .20   | .005  | 50   | N    | N    | 30  | 30   | N    | N     | N    | 7    | N    | N    |
| 09710920 | 28   | 10.00 | .15   | .10   | .050  | 200  | 1.0  | N    | 30  | 100  | N    | 20    | 15   | 70   | N    | 20   |
| 09710930 | 28   | 1.50  | .50   | .50   | .070  | 50   | N    | N    | 30  | 100  | 1.0  | 5     | 15   | 20   | N    | 7    |
| 09710940 | 28   | 1.50  | .50   | .20   | .100  | 30   | N    | N    | 30  | 150  | 1.0  | 7     | 20   | 30   | N    | 50   |
| 09710950 | 28   | 7.00  | .70   | .07   | .300  | 100  | <.5  | N    | 50  | 300  | 1.5  | 15    | 150  | 70   | N    | 20   |
| 09710960 | 28   | 2.00  | .70   | .20   | .150  | 50   | N    | N    | 50  | 150  | 1.0  | 10    | 50   | 30   | N    | 7    |
| 09710970 | 28   | 2.00  | .70   | .30   | .100  | 50   | N    | N    | 50  | 200  | 1.5  | 7     | 50   | 20   | N    | 10   |
| 09710980 | 28   | 2.00  | 1.50  | 1.50  | .150  | 30   | N    | N    | 30  | 200  | 1.0  | 7     | 50   | 50   | N    | 10   |
| 09710990 | 28   | 5.00  | 1.00  | .30   | .200  | 50   | N    | N    | 50  | 150  | 1.0  | 10    | 70   | 70   | N    | 50   |
| 09711000 | 20   | 1.00  | .15   | .10   | .100  | 20   | N    | N    | 30  | 100  | N    | 5     | 20   | 20   | N    | 10   |
| 09711010 | 20   | .20   | .10   | .15   | .020  | 10   | N    | N    | 20  | 50   | N    | N     | N    | 5    | N    | N    |
| 09711020 | 20   | .05   | .07   | .10   | .002  | <10  | N    | N    | 10  | 30   | N    | N     | N    | <5   | N    | N    |
| 09711030 | 20   | .10   | .05   | .05   | .005  | <10  | N    | N    | 20  | 30   | N    | N     | N    | 7    | N    | N    |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09710590 | <20  | 100  | 70   | 5    | N    | <100 | 200 | 20  | N    | 300  | 25    |
| 09710600 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09710610 | N    | 30   | 20   | N    | N    | N    | 50  | N   | N    | 50   | 10    |
| 09710620 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | N     |
| 09710630 | N    | 20   | 15   | N    | N    | N    | 15  | N   | N    | 50   | --    |
| 09710640 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 09710650 | N    | 15   | 10   | N    | N    | N    | 20  | N   | N    | 70   | 5     |
| 09710660 | N    | 10   | N    | N    | N    | N    | 15  | N   | 500  | 30   | 170   |
| 09710670 | N    | 50   | 50   | N    | N    | N    | 70  | <10 | N    | 150  | 15    |
| 09710680 | N    | 15   | 20   | N    | N    | N    | 10  | N   | N    | 30   | <5    |
| 09710690 | N    | 20   | 20   | N    | N    | N    | 30  | N   | N    | 100  | 10    |
| 09710700 | <20  | 100  | 70   | 5    | N    | N    | 150 | 15  | N    | 200  | --    |
| 09710710 | N    | 30   | 100  | N    | N    | N    | N   | N   | N    | 50   | --    |
| 09710720 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09710730 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | N     |
| 09710740 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | 10    |
| 09710750 | N    | 20   | 50   | N    | N    | N    | 70  | N   | N    | 150  | 5     |
| 09710760 | N    | 15   | 10   | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09710770 | N    | N    | N    | N    | N    | N    | <10 | N   | N    | 20   | <5    |
| 09710775 | N    | 20   | 70   | N    | N    | N    | 20  | N   | N    | 50   | --    |
| 09710790 | N    | 20   | 20   | N    | N    | N    | 20  | N   | N    | 50   | 10    |
| 09710800 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09710810 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09710820 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09710830 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 20   | N     |
| 09710840 | N    | 10   | 10   | N    | N    | N    | 30  | N   | N    | 30   | <5    |
| 09710850 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 09710860 | N    | 15   | 10   | N    | N    | N    | 50  | N   | N    | 50   | <5    |
| 09710870 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 09710880 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09710890 | N    | 5    | 10   | N    | N    | N    | 10  | N   | N    | 10   | 5     |
| 09710900 | N    | N    | <10  | N    | N    | N    | 50  | N   | N    | 30   | 5     |
| 09710910 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09710920 | N    | 70   | 100  | N    | N    | N    | <10 | N   | N    | 20   | --    |
| 09710930 | N    | 10   | <10  | N    | N    | N    | 20  | N   | N    | 30   | 5     |
| 09710940 | N    | 15   | 20   | N    | N    | N    | 30  | N   | N    | 100  | 5     |
| 09710950 | N    | 50   | 50   | 5    | N    | N    | 100 | N   | N    | 100  | 20    |
| 09710960 | N    | 20   | 15   | N    | N    | N    | 70  | N   | N    | 100  | 10    |
| 09710970 | N    | 20   | 20   | N    | N    | N    | 50  | N   | N    | 70   | 5     |
| 09710980 | N    | 20   | 20   | N    | N    | N    | 70  | N   | N    | 70   | 5     |
| 09710990 | N    | 30   | 50   | N    | N    | N    | 70  | N   | N    | 100  | --    |
| 09711000 | N    | 10   | 10   | N    | N    | 100  | 20  | N   | N    | 30   | <5    |
| 09711010 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 09711020 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 70   | <5    |
| 09711030 | N    | N    | N    | N    | N    | <100 | N   | N   | N    | 10   | <5    |

| Sample   | FORM | S-FEZ | S-MGZ | S-CAZ | S-TIZ | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09711040 | 20   | 3.00  | .50   | .07   | .200  | 20   | <.5  | N    | 30  | 150  | 1.5  | 10   | 50   | 50   | N    | 10   |
| 09711050 | 20   | 2.00  | .50   | .07   | .200  | 20   | N    | N    | 50  | 150  | 1.5  | 10   | 50   | 30   | N    | 15   |
| 09711060 | 20   | .20   | .07   | .05   | .030  | <10  | N    | N    | 15  | 20   | N    | N    | N    | 5    | N    | <5   |
| 09711070 | 20   | .50   | .20   | .23   | .050  | 10   | N    | N    | 15  | 50   | N    | N    | <10  | 5    | N    | 7    |
| 09711080 | 20   | .20   | .07   | .05   | .020  | <10  | N    | N    | 15  | 20   | N    | N    | N    | 7    | N    | N    |
| 09711090 | 20   | .20   | .10   | .07   | .020  | 20   | N    | N    | 30  | 20   | N    | N    | N    | 15   | N    | N    |
| 09711100 | 20   | 2.00  | 1.50  | 2.00  | .100  | 50   | N    | N    | 20  | 100  | 1.0  | 7    | 10   | <5   | N    | 20   |
| 09711110 | 20   | .05   | .05   | .07   | .002  | 10   | N    | N    | 20  | 50   | N    | N    | N    | <5   | N    | N    |
| 09711120 | 20   | .20   | .10   | .05   | .015  | <10  | N    | N    | 15  | 50   | N    | N    | N    | <5   | N    | N    |
| 09711130 | 20   | .70   | .20   | .20   | .070  | 15   | N    | N    | 20  | 70   | N    | N    | 10   | 10   | N    | 7    |
| 09711140 | 20   | .50   | .20   | .30   | .030  | 15   | N    | N    | 30  | 50   | N    | N    | N    | 5    | N    | 5    |
| 09711150 | 20   | .05   | .07   | .10   | .005  | <10  | N    | N    | 15  | 50   | N    | N    | N    | <5   | N    | N    |
| 09711160 | 20   | .10   | .02   | .07   | .002  | 20   | N    | N    | 20  | 30   | N    | N    | N    | <5   | N    | N    |
| 09711170 | 20   | .10   | .05   | .05   | .010  | N    | N    | N    | 10  | 20   | N    | N    | N    | 7    | N    | N    |
| 09711180 | 20   | 2.00  | .20   | .05   | .100  | 20   | <.5  | N    | 20  | 100  | 1.5  | 10   | 15   | 50   | N    | 50   |
| 09711190 | 19   | .15   | .05   | .05   | .010  | N    | N    | N    | 10  | 30   | N    | N    | N    | <5   | N    | N    |
| 09711200 | 19   | 2.00  | .70   | .30   | .100  | 30   | <.5  | N    | 70  | 50   | 1.5  | 5    | 15   | 20   | N    | 7    |
| 09711210 | 19   | 2.00  | .70   | .05   | .200  | 30   | N    | N    | 100 | 50   | 2.0  | 10   | 50   | 50   | N    | 30   |
| 09711220 | 19   | 3.00  | 1.00  | .23   | .150  | 50   | .5   | N    | 100 | 50   | 2.0  | 10   | 30   | 50   | N    | 20   |
| 09711230 | 19   | .50   | .15   | .10   | .020  | 10   | N    | N    | 30  | 70   | N    | N    | N    | 15   | N    | N    |
| 09711240 | 19   | .15   | .02   | .05   | .003  | 15   | N    | N    | 30  | 30   | N    | N    | N    | 10   | N    | N    |
| 09711250 | 19   | 1.00  | .20   | .10   | .070  | <10  | N    | N    | 30  | 100  | 1.0  | 7    | 15   | 50   | N    | 70   |
| 09711260 | 19   | .20   | .10   | .07   | .020  | <10  | N    | N    | 30  | 100  | N    | N    | N    | 15   | N    | N    |
| 09711270 | 19   | .07   | .05   | .07   | .003  | N    | N    | N    | 30  | 30   | N    | N    | N    | 5    | N    | N    |
| 09711280 | 19   | .05   | .05   | .07   | .003  | N    | N    | N    | 30  | N    | N    | N    | N    | <5   | N    | N    |
| 09711290 | 19   | .07   | .05   | .05   | .007  | N    | N    | N    | 30  | N    | N    | N    | N    | <5   | N    | N    |
| 09711300 | 19   | 1.00  | .50   | .23   | .070  | 10   | N    | N    | 30  | 50   | 1.0  | 5    | 15   | 15   | N    | 10   |
| 09711310 | 19   | .20   | .05   | .07   | .005  | N    | N    | N    | 30  | N    | N    | N    | N    | 5    | N    | N    |
| 09711320 | 19   | .50   | .05   | .07   | .002  | N    | N    | N    | 20  | 20   | N    | N    | N    | 7    | N    | N    |
| 09711330 | 19   | <.05  | .05   | .07   | .005  | N    | N    | N    | 30  | 30   | N    | N    | N    | 7    | N    | N    |
| 09711340 | 19   | .10   | .05   | .07   | .003  | <10  | N    | N    | 30  | N    | N    | N    | N    | 10   | N    | N    |
| 09711350 | 19   | .15   | .05   | .07   | .005  | 10   | N    | N    | 50  | 300  | N    | N    | N    | 5    | N    | N    |
| 09711360 | 19   | .70   | .10   | .10   | .030  | 10   | <.5  | N    | 20  | 70   | N    | 5    | N    | 30   | N    | 50   |
| 09711370 | 19   | .50   | .10   | .07   | .030  | <10  | N    | N    | 20  | 50   | N    | N    | N    | 10   | N    | 15   |
| 09711380 | 19   | .30   | .07   | .07   | .010  | <10  | N    | N    | 20  | N    | N    | N    | N    | 15   | N    | 50   |
| 09711390 | 19   | .15   | .07   | .07   | .007  | <10  | N    | N    | 30  | N    | N    | N    | N    | 7    | N    | 10   |
| 09711400 | 19   | .10   | .05   | .10   | .003  | N    | N    | N    | 30  | 30   | N    | N    | N    | 5    | N    | 10   |
| 09711410 | 19   | .20   | .07   | .10   | .015  | N    | N    | N    | 20  | 20   | N    | N    | N    | 7    | N    | 7    |
| 09711420 | 19   | .20   | .10   | .10   | .020  | N    | N    | N    | 20  | N    | N    | N    | N    | 10   | N    | 30   |
| 09711430 | 19   | 5.00  | 1.00  | .10   | .500  | 50   | <.5  | N    | 50  | 200  | 2.0  | 15   | 70   | 100  | N    | 500  |
| 09711440 | 19   | .15   | .10   | .10   | .005  | N    | N    | N    | 20  | N    | N    | N    | N    | 5    | N    | 10   |
| 09711450 | 19   | .50   | .10   | .10   | .050  | N    | N    | N    | 30  | 50   | N    | N    | <10  | 20   | N    | 20   |
| 09711460 | 19   | 5.00  | 1.50  | .15   | .300  | 30   | <.5  | N    | 50  | 300  | 1.5  | 20   | 100  | 100  | N    | 100  |
| 09711470 | 19   | .50   | .15   | .23   | .050  | 10   | N    | N    | 30  | 50   | N    | N    | N    | 15   | N    | 30   |
| 09711480 | 19   | 5.00  | .50   | .10   | .500  | 15   | <.5  | N    | 30  | 300  | 1.5  | 20   | 70   | 200  | N    | 200  |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09711040 | N    | 20   | 30   | N    | N    | N    | >0  | N   | N    | 70   | 5     |
| 09711050 | N    | 20   | 30   | N    | N    | N    | 100 | N   | N    | 70   | <5    |
| 09711060 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 09711070 | N    | 5    | N    | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 09711080 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09711090 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | N     |
| 09711100 | N    | 15   | 50   | N    | N    | N    | 15  | N   | N    | 50   | --    |
| 09711110 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711120 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09711130 | N    | 5    | 10   | N    | N    | N    | 20  | N   | N    | 50   | <5    |
| 09711140 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 09711150 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09711160 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711170 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20   | N     |
| 09711180 | N    | 20   | 50   | N    | N    | N    | 20  | N   | N    | 50   | <5    |
| 09711190 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | N     |
| 09711200 | N    | 15   | 70   | N    | N    | N    | 30  | N   | N    | 50   | --    |
| 09711210 | N    | 20   | 50   | N    | N    | N    | 70  | N   | N    | 100  | --    |
| 09711220 | N    | 30   | 150  | N    | N    | N    | 50  | N   | N    | 70   | --    |
| 09711230 | N    | 7    | <10  | N    | N    | N    | <10 | N   | N    | 10   | <5    |
| 09711240 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711250 | N    | 15   | 15   | N    | N    | N    | 20  | N   | N    | 50   | <5    |
| 09711260 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 10   | <5    |
| 09711270 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711280 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711290 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711300 | N    | 10   | 10   | N    | N    | N    | 20  | N   | N    | 20   | <5    |
| 09711310 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | N     |
| 09711320 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711330 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711340 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711350 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711360 | N    | 10   | 10   | N    | N    | N    | 30  | N   | N    | 10   | <5    |
| 09711370 | N    | 7    | 10   | N    | N    | N    | 10  | N   | N    | N    | <5    |
| 09711380 | N    | 5    | <10  | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711390 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711400 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711410 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | 10    |
| 09711420 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711430 | N    | 50   | 50   | 5    | N    | N    | 150 | <10 | N    | 100  | --    |
| 09711440 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09711450 | N    | 5    | N    | N    | N    | N    | 70  | N   | N    | 20   | <5    |
| 09711460 | N    | 50   | 50   | 7    | N    | N    | 300 | N   | N    | 70   | 10    |
| 09711470 | N    | 5    | <10  | N    | N    | N    | <10 | N   | N    | 20   | --    |
| 09711480 | N    | 100  | 70   | 5    | N    | N    | 70  | 10  | N    | 100  | --    |



| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO  |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|-------|
| 09711490 | 19   | .50   | .10   | .07   | .050  | N    | N    | N    | 20  | 20    | N    | N    | N    | 15   | N    | 20    |
| 09711500 | 18   | .15   | .07   | .05   | .010  | N    | N    | N    | 15  | N     | N    | N    | N    | 5    | N    | 7     |
| 09711510 | 18   | .05   | .05   | .05   | .005  | N    | N    | N    | 10  | N     | N    | N    | N    | <5   | N    | N     |
| 09711520 | 17   | .50   | .15   | .07   | .050  | 10   | N    | N    | 10  | 20    | N    | N    | N    | 7    | N    | 5     |
| 09711530 | 17   | .30   | .15   | .10   | .030  | 10   | N    | N    | 10  | 30    | N    | N    | N    | 5    | N    | N     |
| 09711540 | 17   | 5.00  | 1.00  | .15   | .500  | 30   | 1.5  | N    | 70  | 200   | 5.0  | 20   | 100  | 300  | N    | 200   |
| 09711550 | 17   | 5.00  | 1.50  | .15   | .500  | 50   | .5   | N    | 100 | 300   | 2.0  | 10   | 50   | 100  | N    | 700   |
| 09711560 | 17   | 10.00 | 2.00  | .10   | .500  | 70   | .7   | 200  | 300 | 300   | 7.0  | 50   | 200  | 150  | N    | 2,000 |
| 09711570 | 17   | 10.00 | 1.50  | .10   | .700  | 50   | 2.0  | 300  | 100 | 300   | 7.0  | 30   | 150  | 500  | N    | 500   |
| 09711580 | 17   | 7.00  | 1.50  | .20   | .500  | 50   | 1.0  | N    | 100 | 200   | 5.0  | 15   | 150  | 100  | N    | 100   |
| 09711590 | 17   | 2.00  | .50   | .07   | .100  | 15   | <.5  | N    | 50  | 70    | 1.5  | 7    | 15   | 70   | N    | 150   |
| 09711600 | 17   | .70   | .20   | .15   | .050  | 10   | 1.5  | N    | 30  | N     | N    | N    | N    | 30   | N    | 30    |
| 09711610 | 17   | 7.00  | 2.00  | .20   | 1.000 | 50   | 1.5  | N    | 150 | 300   | 7.0  | 30   | 200  | 200  | N    | 200   |
| 09711620 | 17   | 3.00  | 1.50  | .20   | .300  | 50   | <.5  | N    | 100 | 100   | 3.0  | 10   | 50   | 50   | N    | 30    |
| 09711630 | 17   | 3.00  | 1.50  | .15   | .500  | 50   | <.5  | N    | 200 | 150   | 5.0  | 15   | 100  | 50   | N    | 50    |
| 09711640 | 17   | 2.00  | .70   | .10   | .200  | 20   | .5   | N    | 70  | 100   | 2.0  | 10   | 20   | 150  | N    | 70    |
| 09711650 | 17   | 5.00  | 1.50  | .07   | .300  | 50   | .7   | N    | 150 | 100   | 10.0 | 20   | 100  | 150  | N    | 300   |
| 09711660 | 17   | 3.00  | .70   | .70   | .200  | 50   | 1.0  | N    | 100 | 70    | 5.0  | 15   | 30   | 200  | N    | 300   |
| 09711670 | 17   | 5.00  | 2.00  | .10   | .500  | 70   | 1.5  | N    | 200 | 150   | 7.0  | 20   | 150  | 100  | N    | 500   |
| 09711680 | 17   | 7.00  | 1.50  | .50   | .700  | 100  | 1.0  | N    | 150 | 150   | 5.0  | 20   | 100  | 150  | N    | 500   |
| 09711690 | 17   | 2.00  | .70   | .07   | .150  | 20   | N    | N    | 100 | 50    | 2.0  | 7    | 15   | 30   | N    | 50    |
| 09711700 | 17   | .30   | .30   | .07   | .070  | N    | N    | N    | 50  | 20    | N    | N    | N    | 7    | N    | N     |
| 09711710 | 17   | 5.00  | 2.00  | .10   | .500  | 50   | N    | N    | 200 | 100   | 5.0  | 15   | 100  | 70   | 30   | 150   |
| 09711720 | 17   | 3.00  | 1.00  | .30   | .200  | 200  | <.5  | N    | 30  | 700   | 1.5  | 7    | 50   | 30   | 20   | 30    |
| 09711730 | 17   | 2.00  | .70   | .10   | .150  | 20   | <.5  | N    | 70  | 200   | 1.5  | 7    | 15   | 50   | N    | 30    |
| 09711740 | 17   | 1.50  | 1.00  | .70   | .200  | 30   | N    | N    | 50  | 300   | 1.5  | 5    | 10   | 20   | 20   | 20    |
| 09711750 | 16   | 1.00  | .20   | .15   | .070  | 10   | N    | N    | 50  | 200   | N    | N    | N    | 10   | N    | 10    |
| 09711760 | 16   | 5.00  | 1.00  | .30   | .300  | 70   | <.5  | N    | 50  | 700   | 1.5  | 10   | 30   | 50   | 70   | 30    |
| 09711770 | 15   | 7.00  | .70   | .10   | .300  | 50   | N    | N    | 50  | 700   | 2.0  | 10   | 30   | 70   | 100  | 20    |
| 09711780 | 15   | 5.00  | 1.00  | .30   | .500  | 70   | N    | N    | 50  | 1,000 | 1.5  | 7    | 30   | 50   | 70   | 10    |
| 09711790 | 15   | 5.00  | 1.50  | 1.00  | .500  | 70   | N    | N    | 50  | 700   | 1.5  | 7    | 50   | 20   | 70   | 5     |
| 09711800 | 15   | 5.00  | 1.50  | 1.00  | .300  | 70   | N    | N    | 70  | 700   | 1.0  | 7    | 30   | 20   | 70   | 10    |
| 09711810 | 15   | 3.00  | .70   | .20   | .500  | 50   | N    | N    | 70  | 700   | 1.5  | 7    | 30   | 15   | 70   | 7     |
| 09711820 | 15   | 2.00  | 1.00  | .30   | .500  | 50   | N    | N    | 70  | 700   | 1.0  | 5    | 30   | 20   | 70   | 5     |
| 09711830 | 15   | 3.00  | .50   | .10   | .300  | 30   | N    | N    | 30  | 700   | 1.5  | 5    | 15   | 10   | 70   | N     |
| 09711840 | 14   | 3.00  | 1.00  | .10   | .300  | 30   | N    | N    | 50  | 1,000 | 2.0  | 5    | 15   | 10   | 50   | N     |
| 09711850 | 14   | 3.00  | 1.50  | .20   | .300  | 70   | N    | N    | 70  | 700   | 3.0  | 5    | 20   | 10   | 50   | N     |
| 09711860 | 14   | 2.00  | .70   | .15   | .200  | 50   | N    | N    | 30  | 700   | 1.5  | N    | 10   | 10   | 50   | N     |
| 09711870 | 14   | 3.00  | 1.50  | .70   | .300  | 100  | N    | N    | 70  | 700   | 3.0  | 10   | 20   | 10   | 50   | N     |
| 09711880 | 14   | 3.00  | 1.50  | .50   | .300  | 100  | N    | N    | 50  | 1,000 | 2.0  | 7    | 20   | 7    | 70   | N     |
| 09711890 | 14   | 2.00  | 1.00  | .30   | .300  | 70   | N    | N    | 50  | 700   | 3.0  | 7    | 15   | 5    | 50   | N     |
| 09711900 | 12   | 1.50  | .50   | <.05  | .300  | 20   | N    | N    | 50  | 1,000 | 1.5  | N    | 10   | 5    | 50   | N     |
| 09711910 | 12   | .70   | .20   | <.05  | .150  | 20   | N    | N    | 15  | 500   | 1.0  | N    | N    | <5   | 20   | N     |
| 09711920 | 12   | .50   | .05   | <.05  | .070  | 15   | N    | N    | 10  | 300   | N    | N    | N    | <5   | N    | N     |
| 09711930 | 12   | 1.00  | .20   | <.05  | .200  | 15   | N    | N    | 100 | 200   | 1.5  | 5    | 10   | 10   | 50   | N     |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09711490 | N    | 5    | N    | N    | N    | N    | 10  | N   | N    | 10   | <5    |
| 09711500 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 09711510 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 09711520 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 30   | N     |
| 09711530 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 50   | <5    |
| 09711540 | N    | 50   | 70   | 5    | N    | N    | 300 | <10 | N    | 100  | <5    |
| 09711550 | N    | 50   | 150  | <5   | N    | N    | 100 | <10 | N    | 150  | --    |
| 09711560 | N    | 100  | 70   | 7    | 20   | N    | 200 | 15  | N    | 150  | --    |
| 09711570 | <20  | 150  | 200  | 7    | N    | N    | 500 | 15  | N    | 200  | --    |
| 09711580 | <20  | 50   | 100  | 7    | N    | N    | 200 | 15  | N    | 200  | --    |
| 09711590 | N    | 20   | 30   | N    | N    | N    | 50  | N   | N    | 200  | <5    |
| 09711600 | N    | 7    | N    | N    | N    | N    | 15  | N   | N    | 15   | <5    |
| 09711610 | N    | 100  | 100  | 10   | N    | N    | 500 | 15  | N    | 200  | --    |
| 09711620 | N    | 30   | 70   | <5   | N    | N    | 150 | N   | N    | 70   | --    |
| 09711630 | N    | 50   | 50   | 7    | N    | N    | 200 | 10  | N    | 200  | --    |
| 09711640 | N    | 20   | 50   | <5   | N    | N    | 100 | N   | N    | 50   | --    |
| 09711650 | N    | 70   | 70   | 7    | N    | N    | 200 | 15  | N    | 150  | --    |
| 09711660 | N    | 50   | 100  | N    | N    | N    | 100 | N   | N    | 100  | --    |
| 09711670 | N    | 70   | 200  | 10   | N    | N    | 150 | 10  | N    | 150  | --    |
| 09711680 | N    | 100  | 200  | 7    | N    | N    | 150 | 15  | N    | 150  | --    |
| 09711690 | N    | 20   | 15   | N    | N    | N    | 50  | N   | N    | 100  | 10    |
| 09711700 | N    | N    | N    | N    | N    | N    | 10  | N   | N    | 30   | <5    |
| 09711710 | N    | 50   | 50   | 10   | N    | N    | 100 | 20  | N    | 200  | 10    |
| 09711720 | N    | 20   | 70   | 5    | N    | 100  | 50  | 20  | N    | 200  | --    |
| 09711730 | N    | 20   | 50   | N    | N    | N    | 30  | <10 | N    | 100  | --    |
| 09711740 | N    | 10   | 20   | N    | N    | N    | 20  | 10  | N    | 200  | <5    |
| 09711750 | N    | N    | 10   | N    | N    | N    | N   | N   | N    | 70   | <5    |
| 09711760 | N    | 15   | 150  | <5   | N    | <100 | 50  | 30  | N    | 300  | 10    |
| 09711770 | N    | 15   | 150  | N    | N    | <100 | 30  | 30  | N    | 500  | 5     |
| 09711780 | N    | 15   | 150  | N    | N    | <100 | 50  | 30  | N    | 500  | 10    |
| 09711790 | N    | 15   | 100  | <5   | N    | <100 | 50  | 30  | N    | 200  | 5     |
| 09711800 | N    | 15   | 70   | N    | N    | <100 | 50  | 30  | N    | 300  | 5     |
| 09711810 | <20  | 15   | 50   | <5   | N    | <100 | 50  | 30  | N    | 300  | <5    |
| 09711820 | <20  | 7    | 20   | N    | N    | <100 | 50  | 50  | N    | 500  | 5     |
| 09711830 | <20  | 5    | 20   | N    | N    | <100 | 30  | 30  | N    | 300  | <5    |
| 09711840 | <20  | 5    | 20   | N    | N    | <100 | 30  | 30  | N    | 500  | <5    |
| 09711850 | <20  | 5    | 20   | <5   | N    | <100 | 50  | 30  | N    | 500  | <5    |
| 09711860 | <20  | N    | 15   | N    | N    | <100 | 20  | 20  | N    | 500  | <5    |
| 09711870 | <20  | 7    | 20   | 5    | N    | <100 | 50  | 50  | N    | 500  | <5    |
| 09711880 | <20  | 5    | 15   | 5    | N    | <100 | 50  | 50  | N    | 500  | 5     |
| 09711890 | <20  | N    | 10   | 7    | N    | <100 | 50  | 30  | N    | 500  | <5    |
| 09711900 | <20  | N    | 15   | 5    | N    | <100 | 50  | 50  | N    | 500  | <5    |
| 09711910 | N    | N    | N    | N    | N    | N    | 15  | 20  | N    | 200  | <5    |
| 09711920 | N    | N    | 10   | N    | N    | N    | 10  | 15  | N    | 150  | <5    |
| 09711930 | N    | 5    | <10  | <5   | N    | N    | 20  | 50  | N    | 700  | <5    |

| Sample   | FORM | S-FE% | S-MGZ | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO. | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|-------|------|------|------|------|
| 09711940 | 12   | .70   | .20   | <.05  | .150  | 15   | N    | N    | 30  | 200   | 1.0  | N     | N    | 5    | 70   | N    |
| 09711950 | 23   | .70   | .20   | <.05  | .150  | 20   | N    | N    | 20  | 700   | 1.0  | N     | N    | 5    | 20   | N    |
| 09711960 | 11   | 3.00  | 1.00  | .50   | .500  | 200  | N    | N    | 30  | 1,500 | 1.5  | 10    | 100  | 7    | 70   | N    |
| 09711970 | 11   | 3.00  | 1.50  | .50   | .500  | 300  | N    | N    | 10  | 1,000 | 2.0  | 10    | 100  | 7    | 30   | 7    |
| 09711975 | 11   | 5.00  | 2.00  | 1.50  | .500  | 500  | N    | N    | 15  | 1,500 | 2.0  | 20    | 200  | 200  | 70   | <5   |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09711940 | N    | N    | N    | N    | N    | N    | 15  | 50  | N    | 500  | <5    |
| 09711950 | N    | N    | N    | N    | N    | N    | 15  | 20  | N    | 300  | <5    |
| 09711960 | N    | 20   | <10  | 10   | N    | 100  | 70  | 50  | N    | 300  | 30    |
| 09711970 | N    | 20   | 15   | 10   | N    | 200  | 70  | 50  | N    | 300  | 35    |
| 09711975 | N    | 30   | 20   | 15   | N    | 200  | 100 | 50  | N    | 500  | 35    |

TABLE 4.--Spectrographic analyses of insoluble-residue samples from drill hole no. 98.

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09810010 | 29   | .30   | 1.00  | 1.00  | .100  | 20   | N    | N    | 50  | 150  | <1.0 | N    | N    | 20   | 7    | N    |
| 09810020 | 29   | 2.00  | 2.00  | 1.50  | .150  | 30   | N    | N    | 70  | 300  | 1.0  | N    | <5   | 50   | 7    | N    |
| 09810030 | 29   | 1.50  | 1.00  | .50   | .100  | 50   | N    | N    | 50  | 200  | <1.0 | N    | <5   | 20   | 10   | N    |
| 09810040 | 29   | .20   | .10   | .10   | .015  | 20   | N    | N    | 30  | 70   | N    | N    | N    | N    | <5   | N    |
| 09810050 | 29   | 1.50  | 1.50  | .70   | .300  | 20   | N    | N    | 70  | 300  | 2.0  | N    | 7    | 150  | 30   | N    |
| 09810060 | 29   | 1.50  | .50   | .20   | .150  | 20   | <.5  | N    | 50  | 300  | 1.0  | N    | 10   | 30   | 50   | N    |
| 09810070 | 29   | 2.00  | .70   | .20   | .200  | 70   | N    | N    | 70  | 300  | 2.0  | N    | 10   | 50   | 30   | N    |
| 09810080 | 29   | 2.00  | 1.50  | 1.00  | .200  | 50   | N    | N    | 70  | 300  | 1.5  | N    | 20   | 70   | 70   | N    |
| 09810090 | 29   | .50   | .30   | .30   | .050  | 30   | N    | N    | 50  | 70   | N    | N    | N    | 10   | 10   | N    |
| 09810100 | 29   | 1.00  | 3.00  | 5.00  | .100  | 70   | N    | N    | 50  | 100  | 1.0  | N    | 5    | 30   | 15   | N    |
| 09810110 | 29   | 1.50  | 1.50  | 1.50  | .150  | 50   | N    | N    | 70  | 200  | 2.0  | N    | 7    | 50   | 50   | N    |
| 09810120 | 29   | .05   | .20   | .20   | .050  | 10   | N    | N    | 50  | 50   | N    | N    | N    | <10  | 15   | N    |
| 09810130 | 29   | .20   | .20   | .20   | .050  | 10   | N    | N    | 50  | N    | N    | N    | N    | N    | 10   | N    |
| 09810140 | 29   | 1.50  | 1.00  | .70   | .100  | 50   | N    | N    | 50  | 150  | 1.0  | N    | 5    | 30   | 50   | N    |
| 09810150 | 29   | 5.00  | 1.00  | .10   | .300  | 70   | <.5  | N    | 70  | 300  | 2.0  | N    | 20   | 100  | 70   | N    |
| 09810160 | 29   | 3.00  | .50   | .10   | .100  | 20   | 1.0  | N    | 50  | 100  | 1.0  | N    | 5    | 30   | 100  | N    |
| 09810170 | 29   | 1.00  | 1.50  | 1.50  | .070  | 20   | N    | N    | 50  | 70   | <1.0 | N    | <5   | 15   | 15   | N    |
| 09810180 | 29   | 2.00  | 2.00  | 2.00  | .200  | 100  | N    | N    | 30  | 500  | 1.5  | N    | 7    | 50   | 30   | 20   |
| 09810190 | 29   | .15   | .10   | .15   | .010  | 15   | N    | N    | 50  | N    | N    | N    | N    | N    | 5    | N    |
| 09810200 | 29   | 1.00  | .30   | .10   | .100  | 20   | N    | N    | 50  | 200  | <1.0 | N    | <5   | 20   | 20   | N    |
| 09810210 | 29   | .07   | .07   | .07   | .020  | <10  | N    | N    | 30  | 50   | N    | N    | N    | N    | 7    | N    |
| 09810220 | 29   | 1.00  | 1.50  | 1.50  | .200  | 20   | N    | N    | 50  | 300  | 1.5  | N    | <5   | 100  | 50   | N    |
| 09810230 | 29   | .50   | .50   | .20   | .150  | 15   | N    | N    | 50  | 200  | 1.5  | N    | N    | 30   | 20   | N    |
| 09810240 | 29   | 2.00  | 1.50  | 1.00  | .200  | 20   | N    | N    | 50  | 200  | 1.5  | N    | 5    | 70   | 20   | N    |
| 09810250 | 29   | 3.00  | 1.50  | 1.00  | .200  | 50   | N    | N    | 50  | 300  | 2.0  | N    | 7    | 100  | 50   | N    |
| 09810260 | 29   | 5.00  | 1.50  | .50   | .200  | 50   | N    | N    | 50  | 300  | 2.0  | N    | 15   | 70   | 50   | N    |
| 09810270 | 28   | .10   | .10   | .20   | .010  | 20   | N    | N    | 15  | 150  | N    | N    | N    | N    | <5   | N    |
| 09810280 | 28   | .20   | .20   | .30   | .030  | 15   | N    | N    | 20  | 50   | N    | N    | N    | N    | 7    | N    |
| 09810290 | 28   | 1.00  | .50   | .30   | .100  | 20   | N    | N    | 20  | 100  | 1.5  | N    | <5   | 20   | 20   | N    |
| 09810300 | 28   | 3.00  | 1.50  | 1.00  | .200  | 50   | 1.0  | N    | 50  | 300  | 2.0  | N    | 20   | 70   | 50   | N    |
| 09810310 | 28   | 1.50  | .70   | .50   | .100  | 20   | N    | N    | 30  | 100  | 1.0  | N    | 5    | 20   | 20   | N    |
| 09810320 | 28   | 2.00  | 2.00  | 3.00  | .150  | 50   | N    | N    | 50  | 150  | 2.0  | N    | 5    | 50   | 30   | N    |
| 09810330 | 28   | 1.00  | .50   | .15   | .070  | 10   | N    | N    | 30  | 70   | <1.0 | N    | N    | 20   | 15   | N    |
| 09810340 | 28   | .70   | .50   | .30   | .050  | 30   | N    | N    | 30  | 100  | N    | N    | N    | N    | 10   | N    |
| 09810350 | 28   | 2.00  | 1.50  | 1.00  | .150  | 50   | N    | N    | 50  | 150  | 1.0  | N    | 7    | 50   | 30   | N    |
| 09810360 | 28   | .05   | .70   | 1.00  | .005  | 30   | N    | N    | 30  | 20   | N    | N    | N    | N    | <5   | N    |
| 09810370 | 28   | .20   | .10   | .10   | .005  | <10  | N    | N    | 30  | N    | N    | N    | N    | N    | 5    | N    |
| 09810380 | 28   | .20   | .05   | .05   | .005  | 10   | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    |
| 09810390 | 28   | 1.00  | 1.00  | 1.00  | .100  | 30   | N    | N    | 30  | 100  | 1.5  | N    | <5   | 20   | 10   | N    |
| 09810400 | 28   | .50   | .10   | .10   | .030  | 30   | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    |
| 09810410 | 28   | 5.00  | .70   | .10   | .300  | 100  | .5   | N    | 50  | 300  | 1.5  | N    | 15   | 150  | 100  | N    |
| 09810420 | 28   | .20   | .07   | .10   | .015  | 20   | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    |
| 09810430 | 28   | .20   | .20   | .30   | .030  | 10   | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    |
| 09810440 | 28   | 1.00  | 1.00  | 1.00  | .070  | 20   | N    | N    | 20  | 100  | N    | N    | N    | 20   | 20   | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|-------|
| 09810010 | N    | N    | N    | N    | N    | N    | 50  | N   | 50   | <5    |
| 09810020 | 5    | N    | 15   | 10   | <5   | N    | 70  | N   | 70   | <5    |
| 09810030 | 10   | N    | 10   | 10   | N    | N    | 30  | N   | 70   | 5     |
| 09810040 | N    | N    | 5    | N    | N    | 200  | N   | N   | N    | <5    |
| 09810050 | 7    | N    | 20   | 20   | 5    | N    | 100 | 10  | 150  | <5    |
| 09810060 | 20   | N    | 30   | 30   | N    | N    | 30  | <10 | 150  | 20    |
| 09810070 | 10   | N    | 30   | 20   | 5    | N    | 70  | N   | 100  | 10    |
| 09810080 | 100  | N    | 30   | 50   | <5   | N    | 70  | <10 | 100  | 10    |
| 09810090 | 10   | N    | 5    | N    | N    | N    | N   | N   | 30   | <5    |
| 09810100 | 20   | N    | 20   | 15   | N    | <100 | 50  | N   | 30   | <5    |
| 09810110 | 20   | N    | 20   | 20   | <5   | N    | 70  | N   | 70   | 5     |
| 09810120 | N    | N    | N    | N    | N    | <100 | N   | N   | 20   | <5    |
| 09810130 | N    | N    | 10   | N    | N    | N    | 20  | N   | 30   | <5    |
| 09810140 | 15   | N    | 20   | 20   | N    | N    | 50  | N   | 70   | 5     |
| 09810150 | 100  | N    | 50   | 50   | 5    | N    | 100 | 10  | 100  | 10    |
| 09810160 | 10   | N    | 20   | 20   | N    | N    | 50  | N   | 50   | <5    |
| 09810170 | 20   | N    | 10   | N    | N    | N    | 15  | N   | 30   | <5    |
| 09810180 | 50   | N    | 20   | 50   | N    | <100 | 50  | 20  | 200  | 15    |
| 09810190 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810200 | <5   | N    | 10   | 15   | N    | N    | 20  | N   | 150  | <5    |
| 09810210 | N    | N    | N    | N    | N    | N    | N   | N   | 20   | 5     |
| 09810220 | 5    | N    | 15   | 15   | <5   | <100 | 100 | 10  | 150  | <5    |
| 09810230 | N    | N    | 7    | N    | N    | N    | 30  | N   | 100  | <5    |
| 09810240 | 20   | N    | 20   | 20   | <5   | N    | 100 | N   | 70   | <5    |
| 09810250 | 20   | N    | 30   | 30   | <5   | N    | 100 | N   | 100  | 5     |
| 09810260 | 50   | N    | 50   | 50   | <5   | N    | 70  | <10 | 100  | 55    |
| 09810270 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810280 | 5    | N    | 5    | N    | N    | N    | N   | N   | 10   | 10    |
| 09810290 | 15   | N    | 15   | N    | N    | N    | 30  | N   | 50   | 5     |
| 09810300 | 200  | N    | 50   | 70   | 5    | <100 | 100 | N   | 100  | 10    |
| 09810310 | 50   | N    | 15   | 10   | <5   | N    | 30  | N   | 70   | <5    |
| 09810320 | 20   | N    | 20   | 15   | <5   | <100 | 70  | N   | 70   | 10    |
| 09810330 | 5    | N    | 10   | N    | N    | N    | 30  | N   | 20   | 5     |
| 09810340 | 10   | N    | 5    | N    | N    | N    | <10 | N   | 20   | 5     |
| 09810350 | 50   | N    | 20   | 20   | <5   | N    | 70  | N   | 70   | 10    |
| 09810360 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810370 | 5    | N    | <5   | N    | N    | N    | N   | N   | N    | 5     |
| 09810380 | N    | N    | N    | N    | N    | N    | N   | N   | 30   | 5     |
| 09810390 | 10   | N    | 15   | N    | N    | N    | 30  | N   | 30   | <5    |
| 09810400 | N    | N    | 5    | N    | N    | N    | N   | N   | 30   | 5     |
| 09810410 | 50   | <20  | 70   | 50   | 7    | N    | 100 | 10  | 100  | 15    |
| 09810420 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810430 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810440 | 10   | N    | 15   | 10   | N    | N    | 30  | N   | 30   | 15    |

| Sample   | FORM | S-FEZ | S-MGZ | S-CAZ | S-TIZ | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 09810450 | 28   | 1.00  | .20   | .10   | .070  | 20   | N    | N    | 30  | 70   | N    | N    | N    | 15   | 20   | N    |
| 09810460 | 28   | .20   | .15   | .15   | .020  | <10  | N    | N    | 20  | 30   | N    | N    | N    | N    | 10   | N    |
| 09810470 | 28   | 5.00  | .30   | .05   | .100  | 20   | N    | N    | 100 | 150  | 1.0  | N    | N    | 30   | 200  | 20   |
| 09810480 | 28   | .70   | .10   | .05   | .020  | <10  | N    | N    | 10  | 70   | N    | N    | N    | N    | 7    | N    |
| 09810490 | 20   | 1.00  | .20   | .10   | .100  | 20   | N    | N    | 50  | 100  | <1.0 | N    | <5   | 20   | 10   | N    |
| 09810500 | 20   | .50   | .10   | .07   | .050  | 15   | N    | N    | 20  | 50   | <1.0 | 20   | N    | <10  | 5    | N    |
| 09810510 | 20   | 1.00  | .10   | .10   | .030  | <10  | N    | N    | 20  | 20   | N    | 20   | N    | N    | 10   | N    |
| 09810520 | 20   | .20   | .10   | .07   | .030  | <10  | N    | N    | 20  | 30   | N    | 20   | N    | <10  | 5    | N    |
| 09810530 | 20   | .70   | .05   | .05   | .020  | 20   | N    | N    | 20  | 20   | N    | 20   | N    | 7    | 7    | N    |
| 09810540 | 20   | 3.00  | .50   | .05   | .150  | 20   | .7   | N    | 30  | 200  | 2.0  | 20   | 5    | 50   | 30   | N    |
| 09810550 | 20   | .10   | .10   | .10   | .005  | N    | N    | N    | 30  | N    | N    | 20   | N    | N    | <5   | N    |
| 09810560 | 20   | .20   | .05   | .05   | .010  | 50   | N    | N    | 20  | 20   | N    | 20   | N    | N    | 7    | N    |
| 09810570 | 20   | 1.00  | .20   | .30   | .003  | 10   | N    | N    | <10 | N    | N    | 20   | N    | N    | 10   | N    |
| 09810580 | 20   | .05   | .05   | .05   | .005  | <10  | N    | N    | 10  | 20   | N    | 20   | N    | N    | <5   | N    |
| 09810590 | 20   | .20   | .10   | .10   | .005  | <10  | N    | N    | 10  | N    | N    | 20   | N    | N    | <5   | N    |
| 09810600 | 20   | .10   | .07   | .05   | .005  | N    | N    | N    | 30  | N    | N    | 20   | N    | N    | 5    | N    |
| 09810610 | 20   | .10   | .05   | <.05  | .050  | N    | N    | N    | 20  | 20   | N    | 20   | N    | N    | 5    | N    |
| 09810620 | 19   | 1.50  | .30   | .10   | .100  | 30   | N    | N    | 50  | 100  | 1.5  | 20   | 5    | 20   | 5    | N    |
| 09810630 | 19   | 2.00  | .20   | .10   | .010  | 70   | .7   | N    | 20  | N    | <1.0 | 20   | 10   | 100  | 200  | N    |
| 09810640 | 19   | 1.50  | 5.00  | 7.00  | .100  | 70   | N    | N    | 70  | 150  | 1.5  | 20   | 7    | 50   | 20   | N    |
| 09810650 | 19   | .50   | .10   | .20   | .005  | 20   | N    | N    | 20  | 30   | N    | 20   | 5    | N    | 10   | N    |
| 09810660 | 19   | >.00  | 1.00  | .50   | .150  | 50   | 1.0  | N    | 100 | 50   | 3.0  | 20   | 50   | 50   | 50   | N    |
| 09810670 | 19   | .20   | .02   | .10   | .002  | N    | N    | N    | 20  | 20   | N    | 20   | <5   | N    | 5    | N    |
| 09810680 | 19   | 1.00  | .07   | .07   | .010  | 10   | N    | N    | 20  | N    | N    | 20   | N    | N    | 15   | N    |
| 09810690 | 19   | 1.00  | .10   | .10   | .007  | 20   | N    | N    | 30  | 50   | N    | 20   | <5   | N    | 20   | N    |
| 09810700 | 19   | 1.50  | .30   | .15   | .150  | 20   | N    | N    | 50  | 500  | 1.5  | N    | N    | 10   | 15   | 20   |
| 09810710 | 19   | <.05  | .05   | .10   | .002  | <10  | N    | N    | 20  | 30   | N    | N    | N    | N    | <5   | N    |
| 09810720 | 19   | .15   | .15   | .20   | .010  | N    | N    | N    | 30  | 20   | N    | N    | N    | N    | 5    | N    |
| 09810730 | 19   | <.05  | .10   | .20   | .003  | N    | N    | N    | 30  | N    | N    | N    | N    | N    | <5   | N    |
| 09810740 | 19   | .10   | .15   | .20   | .003  | <10  | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    |
| 09810750 | 19   | .05   | .20   | .30   | .002  | <10  | N    | N    | 50  | N    | N    | N    | N    | N    | <5   | N    |
| 09810760 | 19   | <.05  | .15   | .20   | .003  | <10  | N    | N    | 50  | N    | N    | N    | N    | N    | <5   | N    |
| 09810770 | 19   | <.05  | .05   | .07   | <.002 | <10  | N    | N    | 20  | 50   | N    | N    | N    | N    | <5   | N    |
| 09810780 | 19   | .20   | .15   | .20   | .002  | <10  | N    | N    | 50  | N    | N    | N    | N    | N    | 5    | N    |
| 09810790 | 19   | <.05  | .30   | .50   | .003  | 15   | N    | N    | 50  | 30   | N    | N    | N    | N    | 5    | N    |
| 09810800 | 19   | <.05  | .10   | .10   | .002  | <10  | N    | N    | 30  | N    | N    | N    | N    | N    | <5   | N    |
| 09810810 | 19   | .20   | .20   | .30   | .030  | 30   | N    | N    | 30  | 150  | N    | N    | N    | N    | 7    | N    |
| 09810820 | 19   | .20   | .10   | .10   | .010  | N    | N    | N    | 30  | N    | N    | N    | N    | N    | 5    | N    |
| 09810830 | 19   | .05   | .05   | .05   | .003  | N    | N    | N    | 20  | N    | N    | N    | N    | N    | 10   | N    |
| 09810840 | 19   | .20   | .10   | .07   | .020  | N    | N    | N    | 30  | 20   | N    | N    | N    | N    | 15   | N    |
| 09810850 | 19   | .05   | .07   | .10   | .005  | N    | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    |
| 09810860 | 19   | .10   | .50   | .70   | .007  | <10  | N    | N    | 20  | 20   | N    | N    | N    | N    | 15   | N    |
| 09810870 | 19   | .10   | .03   | .07   | .003  | <10  | N    | N    | 20  | 20   | N    | N    | N    | N    | 7    | N    |
| 09810880 | 19   | .15   | .05   | .10   | .005  | <10  | N    | N    | 20  | N    | N    | N    | N    | N    | 7    | N    |
| 09810890 | 19   | 3.00  | 1.00  | .20   | .500  | 50   | <.5  | N    | 100 | 300  | 5.0  | N    | 10   | 100  | 70   | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|-------|
| 09810450 | <5   | N    | 10   | 10   | N    | N    | 20  | N   | 20   | 5     |
| 09810460 | N    | N    | <5   | N    | N    | N    | N   | N   | 15   | 5     |
| 09810470 | N    | N    | 15   | 15   | 5    | N    | 20  | N   | 50   | --    |
| 09810480 | N    | N    | 5    | N    | N    | N    | N   | N   | 30   | <5    |
| 09810490 | 7    | N    | 15   | N    | N    | N    | 30  | N   | 50   | 10    |
| 09810500 | N    | N    | 5    | N    | N    | N    | <10 | N   | 20   | 10    |
| 09810510 | <5   | N    | 5    | N    | N    | N    | N   | N   | 10   | 5     |
| 09810520 | <5   | N    | N    | N    | N    | N    | N   | N   | 15   | 5     |
| 09810530 | <5   | N    | <5   | N    | N    | N    | N   | N   | 10   | 15    |
| 09810540 | 15   | N    | 20   | 150  | N    | N    | 100 | <10 | 100  | 5     |
| 09810550 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 5     |
| 09810560 | <5   | N    | N    | N    | N    | N    | N   | N   | 10   | 15    |
| 09810570 | <5   | N    | 5    | 10   | N    | N    | N   | N   | 30   | 10    |
| 09810580 | N    | N    | N    | N    | N    | N    | N   | N   | 10   | 15    |
| 09810590 | N    | N    | N    | N    | N    | N    | N   | N   | 10   | N     |
| 09810600 | N    | N    | N    | N    | N    | N    | N   | N   | 10   | <5    |
| 09810610 | N    | N    | N    | N    | N    | N    | N   | N   | 30   | <5    |
| 09810620 | 20   | N    | 20   | 50   | N    | N    | 50  | N   | 50   | <5    |
| 09810630 | 5    | N    | 20   | 20   | N    | N    | <10 | N   | N    | --    |
| 09810640 | 20   | N    | 20   | 30   | <5   | <100 | 50  | N   | 30   | N     |
| 09810650 | 5    | N    | 10   | N    | N    | N    | N   | N   | N    | 20    |
| 09810660 | 50   | N    | 100  | 100  | <5   | N    | 70  | N   | 50   | --    |
| 09810670 | N    | N    | <5   | N    | N    | N    | N   | N   | N    | N     |
| 09810680 | N    | N    | 15   | 10   | N    | N    | N   | N   | N    | --    |
| 09810690 | 20   | N    | 10   | N    | N    | N    | N   | N   | N    | <5    |
| 09810700 | 7    | N    | 5    | 20   | <5   | N    | 20  | 30  | 500  | <5    |
| 09810710 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810720 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810730 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810740 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810750 | 7    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810760 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810770 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810780 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810790 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 5     |
| 09810800 | N    | N    | N    | N    | N    | N    | N   | N   | N    | 20    |
| 09810810 | 7    | N    | N    | N    | N    | N    | N   | N   | 20   | N     |
| 09810820 | N    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810830 | 5    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810840 | 20   | N    | 7    | N    | N    | N    | 10  | N   | N    | N     |
| 09810850 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810860 | <5   | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810870 | 5    | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810880 | N    | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810890 | 70   | N    | 30   | 15   | 7    | N    | 200 | 10  | 150  | --    |



| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS  | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|-------|-----|-------|------|------|------|------|------|------|
| 09810900 | 19   | .07   | .05   | .13   | .002  | N    | N    | N     | 20  | N     | N    | N    | N    | N    | <5   | N    |
| 09810910 | 19   | 1.00  | .10   | .13   | .030  | 500  | N    | N     | 30  | N     | N    | N    | N    | 15   | 20   | N    |
| 09810920 | 19   | .15   | .07   | .10   | .010  | N    | N    | N     | 30  | N     | N    | N    | N    | N    | 5    | N    |
| 09810930 | 19   | 2.00  | 3.00  | 3.03  | .150  | 70   | N    | N     | 50  | 200   | 2.0  | N    | 10   | 70   | 30   | N    |
| 09810940 | 19   | 7.00  | .20   | .07   | .300  | 50   | N    | N     | 20  | 300   | 1.0  | N    | 20   | 30   | 100  | N    |
| 09810950 | 19   | 2.00  | .50   | .23   | .070  | 10   | N    | N     | 30  | 150   | <1.0 | N    | 5    | 10   | 15   | N    |
| 09810960 | 19   | .15   | .03   | .05   | .002  | N    | N    | N     | 50  | N     | N    | N    | N    | N    | <5   | N    |
| 09810970 | 19   | .30   | .05   | .07   | .005  | N    | N    | N     | 30  | N     | N    | N    | N    | N    | 7    | N    |
| 09810980 | 18   | <.05  | <.02  | <.05  | .002  | N    | N    | N     | 10  | N     | N    | N    | N    | N    | N    | N    |
| 09810990 | 18   | .20   | .10   | .05   | .030  | N    | N    | N     | 10  | N     | N    | N    | N    | 10   | <5   | N    |
| 09811000 | 18   | .15   | .07   | <.05  | .020  | N    | N    | N     | 10  | N     | N    | N    | N    | N    | <5   | N    |
| 09811010 | 17   | .20   | .07   | .15   | .010  | N    | N    | N     | 15  | N     | N    | N    | N    | N    | <5   | N    |
| 09811020 | 17   | 10.00 | .10   | .10   | .005  | 10   | 1.5  | 1,000 | 15  | N     | <1.0 | N    | 15   | N    | 100  | N    |
| 09811030 | 17   | .20   | .10   | .23   | .002  | N    | N    | N     | 15  | N     | N    | N    | N    | N    | 15   | N    |
| 09811040 | 17   | .50   | .10   | .13   | .005  | N    | N    | N     | 50  | N     | N    | N    | N    | N    | 7    | N    |
| 09811050 | 17   | 1.50  | .10   | .20   | .015  | N    | N    | N     | 20  | 20    | N    | N    | N    | <10  | 20   | N    |
| 09811060 | 17   | .70   | .30   | .13   | .070  | <10  | N    | N     | 50  | 30    | 2.0  | N    | <5   | 10   | 30   | N    |
| 09811070 | 17   | 3.00  | 1.50  | .23   | .500  | 50   | 1.0  | N     | 150 | 300   | 7.0  | N    | 20   | 100  | 100  | N    |
| 09811080 | 17   | 2.00  | 1.00  | .30   | .200  | 20   | .5   | N     | 100 | 100   | 2.0  | N    | 10   | 50   | 100  | N    |
| 09811090 | 17   | .50   | .50   | .53   | .050  | 10   | N    | N     | 30  | 20    | 1.0  | N    | <5   | <10  | 15   | N    |
| 09811100 | 17   | 3.00  | 1.00  | .13   | .300  | 15   | <.5  | N     | 100 | 70    | 5.0  | N    | 20   | 50   | 150  | N    |
| 09811110 | 17   | 3.00  | 1.50  | .13   | .500  | 20   | 1.5  | N     | 150 | 100   | 5.0  | N    | 15   | 70   | 200  | N    |
| 09811120 | 17   | .70   | .15   | .23   | .050  | N    | N    | N     | 50  | N     | N    | N    | 5    | <10  | 20   | N    |
| 09811130 | 17   | 1.50  | .70   | .15   | .150  | 15   | N    | N     | 100 | 50    | 3.0  | N    | 7    | 15   | 50   | N    |
| 09811140 | 17   | 5.00  | 1.50  | .15   | .500  | 50   | .7   | N     | 150 | 150   | 5.0  | N    | 15   | 100  | 200  | N    |
| 09811150 | 17   | 2.00  | 1.00  | .50   | .300  | 50   | <.5  | N     | 100 | 300   | 3.0  | N    | 10   | 30   | 50   | 30   |
| 09811160 | 17   | 5.00  | 2.00  | .20   | .500  | 50   | 1.0  | N     | 150 | 150   | 5.0  | N    | 15   | 150  | 100  | N    |
| 09811170 | 17   | 10.00 | 1.50  | .10   | .500  | 50   | 2.0  | 700   | 150 | 100   | 5.0  | N    | 15   | 70   | 150  | N    |
| 09811180 | 17   | 5.00  | 1.50  | .30   | .500  | 50   | .5   | N     | 150 | 200   | 7.0  | N    | 20   | 100  | 150  | 30   |
| 09811190 | 17   | 7.00  | 2.00  | 2.00  | .300  | 50   | <.5  | 300   | 150 | 100   | 2.0  | N    | 10   | 70   | 50   | 20   |
| 09811200 | 17   | 10.00 | 1.50  | .13   | .500  | 50   | .7   | 500   | 150 | 100   | 3.0  | N    | 15   | 70   | 50   | 30   |
| 09811210 | 17   | 3.00  | 1.50  | .13   | .500  | 30   | N    | N     | 150 | 100   | 5.0  | N    | 5    | 50   | 30   | 30   |
| 09811220 | 17   | 5.00  | 1.00  | .15   | .300  | 15   | N    | N     | 70  | 200   | 2.0  | N    | 5    | 30   | 15   | 30   |
| 09811230 | 17   | 2.00  | .50   | .13   | .200  | 10   | N    | N     | 50  | 150   | 1.0  | N    | 5    | 15   | 70   | N    |
| 09811240 | 16   | 1.00  | .20   | .07   | .150  | <10  | N    | N     | 30  | 200   | <1.0 | N    | N    | <10  | 15   | 20   |
| 09811250 | 16   | .15   | .07   | .13   | .020  | N    | N    | N     | 50  | 100   | N    | N    | N    | N    | 5    | N    |
| 09811260 | 16   | 1.00  | .15   | .13   | .050  | 10   | N    | N     | 50  | 500   | N    | N    | N    | N    | 10   | N    |
| 09811270 | 16   | 3.00  | .70   | .07   | .300  | 20   | N    | N     | 100 | 200   | 2.0  | N    | 5    | 30   | 20   | 50   |
| 09811280 | 16   | 1.50  | .20   | .23   | .100  | <10  | N    | N     | 50  | 300   | 1.0  | N    | N    | <10  | 20   | 20   |
| 09811290 | 16   | 2.00  | .20   | .07   | .150  | 10   | N    | N     | 30  | 500   | 1.5  | N    | 5    | <10  | 20   | 20   |
| 09811300 | 16   | 2.00  | .20   | .07   | .150  | 10   | N    | N     | 20  | 1,000 | 1.0  | N    | N    | N    | 15   | 50   |
| 09811310 | 15   | 1.00  | .15   | .05   | .150  | <10  | N    | N     | 10  | 1,500 | N    | N    | N    | N    | 10   | 50   |
| 09811320 | 15   | .70   | .15   | .05   | .100  | <10  | N    | N     | 10  | 1,500 | N    | N    | N    | N    | 7    | 50   |
| 09811330 | 15   | 1.00  | .20   | .07   | .150  | <10  | N    | N     | 15  | 1,500 | N    | N    | N    | <10  | 15   | 100  |
| 09811340 | 15   | 2.00  | 1.00  | .73   | .300  | 30   | N    | N     | 30  | 1,000 | 1.5  | N    | 5    | 10   | 20   | 100  |

| Sample   | S-MO  | S-NB | S-NI | S-PR | S-SC | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|-------|------|------|------|------|------|-----|-----|------|-------|
| 09810900 | N     | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810910 | 5     | N    | 10   | N    | N    | N    | 15  | N   | 10   | <5    |
| 09810920 | 5     | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09810930 | >0    | N    | 30   | 20   | <5   | <100 | 150 | N   | 70   | 10    |
| 09810940 | 150   | N    | 70   | 50   | N    | N    | 50  | 10  | 200  | --    |
| 09810950 | 30    | N    | 20   | 20   | N    | N    | 10  | N   | 100  | --    |
| 09810960 | N     | N    | N    | N    | N    | N    | N   | N   | N    | 5     |
| 09810970 | N     | N    | N    | N    | N    | N    | N   | N   | N    | N     |
| 09810980 | N     | N    | N    | N    | N    | N    | N   | N   | 10   | 20    |
| 09810990 | N     | N    | N    | N    | N    | N    | N   | N   | 20   | <5    |
| 09811000 | N     | N    | N    | N    | N    | N    | N   | N   | 100  | N     |
| 09811010 | N     | N    | N    | N    | N    | N    | N   | N   | N    | 10    |
| 09811020 | 20    | N    | 100  | 30   | N    | N    | 10  | N   | N    | 5     |
| 09811030 | N     | N    | 5    | N    | N    | N    | N   | N   | N    | <5    |
| 09811040 | N     | N    | N    | N    | N    | N    | N   | N   | N    | <5    |
| 09811050 | 5     | N    | 7    | N    | N    | N    | N   | N   | N    | <5    |
| 09811060 | 10    | N    | 10   | <10  | N    | N    | 50  | N   | 30   | 5     |
| 09811070 | >00   | N    | 50   | 50   | 7    | N    | 200 | 10  | 150  | N     |
| 09811080 | 200   | N    | 30   | 30   | N    | N    | 150 | <10 | 200  | --    |
| 09811090 | 30    | N    | 7    | N    | N    | N    | 10  | N   | 10   | N     |
| 09811100 | 500   | N    | 50   | 20   | <5   | N    | 200 | N   | 100  | N     |
| 09811110 | 150   | N    | 70   | 70   | <5   | N    | 200 | 10  | 200  | --    |
| 09811120 | 100   | N    | 10   | 10   | N    | N    | 10  | N   | 20   | N     |
| 09811130 | 150   | N    | 15   | 30   | N    | N    | 70  | N   | 50   | <5    |
| 09811140 | 200   | N    | 70   | 70   | 7    | N    | 200 | 15  | 200  | N     |
| 09811150 | 300   | N    | 20   | 30   | 5    | N    | 100 | 20  | 200  | <5    |
| 09811160 | >00   | N    | 50   | 50   | 7    | N    | 300 | 15  | 150  | N     |
| 09811170 | 300   | N    | 70   | 300  | 5    | N    | 200 | 15  | 300  | --    |
| 09811180 | 1,000 | N    | 50   | 50   | 10   | N    | 150 | 20  | 200  | 5     |
| 09811190 | 150   | N    | 50   | 100  | 5    | N    | 100 | 15  | 100  | N     |
| 09811200 | 100   | N    | 70   | 200  | 7    | N    | 70  | 20  | 300  | <5    |
| 09811210 | 100   | N    | 20   | 20   | 7    | N    | 70  | 20  | 200  | <5    |
| 09811220 | 70    | N    | 15   | 20   | <5   | N    | 50  | 15  | 200  | <5    |
| 09811230 | 20    | N    | 20   | 50   | N    | N    | 15  | <10 | 200  | <5    |
| 09811240 | 20    | N    | 10   | 10   | N    | N    | <10 | <10 | 200  | <5    |
| 09811250 | 5     | N    | N    | N    | N    | N    | N   | N   | 30   | N     |
| 09811260 | 20    | N    | 7    | 20   | N    | N    | N   | N   | 50   | <5    |
| 09811270 | 20    | N    | 20   | 30   | <5   | N    | 50  | 20  | 300  | N     |
| 09811280 | 15    | N    | 7    | 30   | N    | N    | 10  | N   | 70   | 5     |
| 09811290 | 30    | N    | 15   | 30   | N    | N    | 10  | 10  | 200  | 5     |
| 09811300 | 20    | N    | 10   | 30   | N    | <100 | 15  | 15  | 200  | <5    |
| 09811310 | 20    | N    | 5    | 15   | N    | <100 | 15  | <10 | 200  | <5    |
| 09811320 | 15    | N    | 5    | 10   | N    | <100 | 10  | <10 | 100  | <5    |
| 09811330 | 10    | N    | 7    | 20   | N    | 100  | 20  | 10  | 100  | N     |
| 09811340 | 7     | N    | 15   | 30   | N    | <100 | 30  | 20  | 300  | N     |

| Sample   | FORM | S-FEX | S-MG% | S-CA% | S-TI% | S-MIN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|-------|------|------|-----|-------|------|------|------|------|------|------|
| 098I1350 | 15   | 1.00  | .20   | .10   | .200  | 10    | N    | N    | 10  | 2,000 | N    | N    | N    | N    | 10   | 70   |
| 098I1360 | 14   | 1.50  | .70   | .30   | .200  | 30    | N    | N    | 20  | 1,000 | 1.5  | N    | N    | 10   | 15   | 50   |
| 098I1370 | 14   | 2.00  | .50   | .30   | .300  | 30    | N    | N    | 20  | 1,000 | 1.0  | N    | 5    | 10   | 20   | 50   |
| 098I1380 | 14   | 3.00  | 1.00  | .50   | .300  | 50    | N    | N    | 30  | 700   | 1.5  | N    | 7    | 15   | 20   | 50   |
| 098I1390 | 14   | 1.50  | .70   | .50   | .300  | 70    | N    | N    | 20  | 700   | 2.0  | N    | 5    | 10   | 10   | 30   |
| 098I1400 | 14   | 2.00  | .70   | .30   | .200  | 50    | N    | N    | 20  | 700   | 1.5  | N    | <5   | 10   | 15   | 50   |
| 098I1410 | 14   | 5.00  | 1.00  | .70   | .300  | 50    | N    | N    | 30  | 700   | 2.0  | N    | >    | 15   | 20   | 70   |
| 098I1420 | 14   | 3.00  | 1.00  | 1.00  | .200  | 70    | N    | N    | 20  | 700   | 1.5  | N    | 5    | 10   | 20   | 50   |
| 098I1430 | 14   | 3.00  | .30   | .15   | .200  | 30    | N    | N    | 20  | 1,000 | 1.0  | N    | 15   | <10  | 150  | 50   |
| 098I1440 | 12   | 1.00  | .20   | .10   | .200  | 10    | N    | N    | 20  | 700   | 1.0  | N    | <5   | <10  | 20   | 20   |
| 098I1450 | 12   | 2.00  | .20   | .05   | .300  | 10    | N    | N    | 50  | 700   | 1.0  | N    | N    | 10   | 15   | 70   |
| 098I1470 | 11   | 1.00  | .30   | .20   | .200  | 100   | N    | N    | 15  | 700   | 1.0  | N    | >    | <10  | 50   | 30   |
| 098I1475 | 11   | 2.00  | .70   | .70   | .300  | 500   | N    | N    | <10 | 700   | 2.0  | N    | 7    | 15   | 10   | 50   |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|------|-------|
| 098I1350 | N    | N    | 5    | 15   | N    | <100 | 15  | 10  | 200  | <5    |
| 098I1360 | <5   | N    | 5    | 20   | N    | <100 | 30  | 20  | 200  | 5     |
| 098I1370 | 5    | N    | 5    | 30   | N    | <100 | 30  | 20  | 300  | <5    |
| 098I1380 | 7    | N    | 5    | 20   | N    | <100 | 30  | 30  | 500  | 5     |
| 098I1390 | N    | N    | <5   | 20   | N    | <100 | 20  | 50  | 500  | 5     |
| 098I1400 | N    | N    | <5   | 30   | N    | <100 | 20  | 20  | 300  | 5     |
| 098I1410 | N    | N    | 7    | 30   | N    | <100 | 30  | 30  | 300  | <5    |
| 098I1420 | 5    | N    | 5    | 50   | N    | <100 | 20  | 20  | 300  | 5     |
| 098I1430 | <5   | N    | 10   | 70   | N    | <100 | 15  | 20  | 300  | <5    |
| 098I1440 | N    | N    | N    | 15   | N    | N    | 15  | 20  | 500  | <5    |
| 098I1450 | N    | N    | N    | 20   | 5    | <100 | 20  | 30  | 700  | 15    |
| 098I1470 | N    | N    | N    | 10   | 5    | 100  | 100 | 20  | 200  | 20    |
| 098I1475 | N    | N    | 10   | <10  | 7    | 200  | 100 | 30  | 500  | 30    |

TABLE 5.--Spectrographic analyses of insoluble-residue samples from drill hole no. 99.

| Sample   | FURN | S-FE% | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA | S-MO | S-NI |
|----------|------|-------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 09910250 | 29   | .50   | .05   | .05   | .010  | 50   | N    | 30  | 50   | N    | N    | N    | <10  | 5    | N    | N    | N    |
| 09910260 | 29   | 1.00  | .20   | .07   | .070  | 50   | N    | 50  | 100  | 1.0  | N    | N    | 15   | 7    | N    | N    | 15   |
| 09910270 | 29   | 3.00  | .50   | .07   | .200  | 30   | .5   | 70  | 300  | 1.5  | N    | N    | 70   | 50   | N    | <5   | 30   |
| 09910280 | 29   | 1.00  | 1.50  | 2.00  | .070  | 50   | N    | 50  | 100  | N    | N    | 5    | 15   | 30   | N    | N    | 10   |
| 09910290 | 29   | 1.50  | 2.00  | 3.00  | .150  | 70   | N    | 70  | 200  | 1.0  | N    | <5   | 50   | 15   | N    | 5    | 15   |
| 09910300 | 29   | .50   | .10   | .20   | .020  | 10   | N    | 50  | 50   | N    | N    | N    | N    | 10   | N    | N    | N    |
| 09910310 | 29   | 1.00  | .30   | .50   | .050  | 30   | N    | 70  | 70   | N    | N    | N    | N    | 20   | N    | N    | 10   |
| 09910320 | 29   | .20   | .10   | .10   | .050  | 10   | N    | 70  | 70   | N    | N    | N    | N    | 15   | N    | N    | N    |
| 09910330 | 29   | .30   | .15   | .10   | .050  | 20   | N    | 50  | 150  | N    | N    | N    | 10   | 7    | N    | N    | N    |
| 09910340 | 29   | 1.50  | .50   | .15   | .200  | 20   | N    | 70  | 200  | 1.0  | N    | 10   | 70   | 50   | N    | 7    | 30   |
| 09910350 | 29   | .50   | .10   | .05   | .070  | 50   | N    | 30  | 500  | N    | N    | N    | 10   | 10   | N    | N    | N    |
| 09910360 | 29   | 1.00  | .50   | .15   | .200  | 20   | N    | 100 | 300  | 1.0  | N    | 5    | 70   | 20   | N    | 5    | 20   |
| 09910370 | 29   | .50   | .15   | .10   | .100  | 15   | N    | 50  | 200  | N    | N    | N    | 15   | 10   | N    | N    | 5    |
| 09910380 | 29   | 1.00  | .50   | .50   | .100  | 15   | N    | 70  | 200  | N    | N    | 7    | 20   | 20   | N    | <5   | 20   |
| 09910390 | 29   | 1.50  | 1.00  | .50   | .200  | 20   | N    | 70  | 300  | 1.5  | N    | 5    | 70   | 20   | N    | 5    | 20   |
| 09910400 | 29   | 1.00  | .70   | .50   | .150  | 20   | N    | 70  | 150  | 1.0  | N    | <5   | 30   | 20   | N    | N    | 10   |
| 09910410 | 29   | .07   | .20   | .30   | .020  | 10   | N    | 50  | 30   | N    | N    | N    | N    | 10   | N    | N    | N    |
| 09910420 | 29   | .20   | 1.00  | 2.00  | .030  | 20   | N    | 50  | 50   | N    | N    | N    | 15   | 15   | N    | N    | N    |

| Sample   | S-PB | S-SC | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|-----|-----|------|------|-------|
| 099I0250 | N    | N    | N    | N   | N   | <200 | 15   | 35    |
| 099I0260 | 10   | N    | N    | 20  | N   | <200 | 30   | 35    |
| 099I0270 | 50   | <5   | 100  | 50  | 10  | N    | 100  | 30    |
| 099I0280 | 20   | N    | N    | 20  | N   | N    | 30   | 5     |
| 099I0290 | 30   | 5    | <100 | 50  | N   | N    | 100  | 5     |
| 099I0300 | N    | N    | N    | N   | N   | N    | 10   | 15    |
| 099I0310 | 10   | N    | N    | N   | N   | N    | 30   | 15    |
| 099I0320 | N    | N    | N    | N   | N   | N    | 15   | 10    |
| 099I0330 | N    | N    | N    | N   | N   | N    | 100  | 15    |
| 099I0340 | 20   | <5   | N    | 50  | N   | N    | 100  | 10    |
| 099I0350 | 10   | N    | <100 | <10 | N   | N    | 200  | 40    |
| 099I0360 | 30   | <5   | <100 | 50  | N   | N    | 100  | 10    |
| 099I0370 | <10  | N    | N    | 15  | N   | N    | 150  | 15    |
| 099I0380 | <10  | N    | <100 | 20  | N   | N    | 50   | 5     |
| 099I0390 | 10   | <5   | <100 | 50  | N   | N    | 100  | 25    |
| 099I0400 | <10  | N    | N    | 30  | N   | N    | 50   | 60    |
| 099I0410 | N    | N    | N    | N   | N   | N    | 10   | 15    |
| 099I0420 | N    | N    | N    | 10  | N   | N    | 20   | 45    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA | S-MO | S-NI |
|----------|------|-------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 09910430 | 29   | 1.00  | .20   | .10   | .100  | 50   | N    | 50  | 100  | 1.0  | N    | 7    | 20   | 30   | N    | <5   | 10   |
| 09910440 | 29   | 2.00  | 1.00  | .50   | .200  | 50   | N    | 50  | 300  | 1.0  | N    | 10   | 100  | 50   | N    | 30   | 30   |
| 09910450 | 29   | 3.00  | 1.00  | .50   | .200  | 70   | N    | 70  | 300  | 2.0  | N    | 15   | 70   | 50   | N    | 20   | 50   |
| 09910460 | 29   | 3.00  | 1.50  | 1.50  | .300  | 70   | N    | 70  | 300  | 1.5  | N    | 20   | 150  | 70   | N    | 100  | 70   |
| 09910470 | 29   | 3.00  | 1.00  | .50   | .200  | 70   | <.5  | 50  | 300  | 1.0  | N    | 7    | 50   | 50   | N    | 15   | 50   |
| 09910480 | 29   | 5.00  | .70   | .10   | .300  | 50   | .5   | 70  | 300  | 1.5  | <20  | 15   | 100  | 100  | N    | 15   | 100  |
| 09910490 | 29   | 1.00  | .70   | .20   | .150  | 30   | N    | 50  | 200  | 1.0  | N    | N    | 20   | 15   | N    | N    | 7    |
| 09910500 | 28   | .15   | .07   | .10   | .010  | 10   | N    | 20  | 20   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910510 | 28   | .70   | .70   | 1.00  | .070  | 20   | N    | 30  | 100  | <1.0 | N    | 5    | 15   | 10   | N    | N    | 7    |
| 09910520 | 28   | .10   | .05   | .10   | .005  | N    | N    | 10  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910530 | 28   | 2.00  | .70   | .05   | .300  | 50   | .7   | 70  | 200  | 1.5  | <20  | N    | 100  | 50   | N    | 10   | 20   |
| 09910540 | 28   | .50   | .10   | .05   | .050  | 10   | N    | 20  | 100  | N    | N    | N    | 10   | 5    | N    | N    | N    |
| 09910550 | 28   | 3.00  | .50   | .07   | .500  | 50   | N    | 50  | 700  | N    | N    | 7    | 100  | 50   | N    | 50   | 30   |
| 09910560 | 28   | 5.00  | .30   | .07   | .200  | 50   | N    | 50  | 300  | 1.0  | N    | 15   | 50   | 100  | N    | 100  | 50   |
| 09910570 | 28   | .20   | .10   | .20   | .030  | 30   | N    | 50  | .100 | N    | N    | N    | N    | 10   | N    | N    | 5    |
| 09910580 | 28   | .20   | .30   | .50   | .020  | 20   | N    | 30  | 30   | N    | N    | N    | N    | 10   | N    | N    | N    |
| 09910590 | 28   | .50   | .50   | .50   | .070  | 30   | N    | 50  | 70   | <1.0 | N    | N    | 10   | 15   | N    | 50   | 5    |
| 09910600 | 28   | 1.00  | .70   | .50   | .100  | 30   | N    | 50  | 100  | <1.0 | N    | 5    | 15   | 30   | N    | 20   | 15   |
| 09910610 | 28   | .50   | 1.50  | 2.00  | .050  | 50   | N    | 30  | 50   | N    | N    | N    | <10  | 15   | N    | 15   | 7    |
| 09910620 | 28   | 2.00  | 1.50  | 2.00  | .200  | 50   | N    | 50  | 200  | <1.0 | N    | 10   | 30   | 30   | N    | 20   | 20   |
| 09910630 | 28   | 1.00  | .70   | .50   | .150  | 30   | N    | 50  | 200  | 1.0  | N    | 5    | 30   | 30   | N    | 10   | 15   |
| 09910640 | 28   | 1.00  | 2.00  | 3.00  | .100  | 50   | N    | 70  | 100  | <1.0 | N    | 5    | 20   | 15   | N    | 20   | 10   |
| 09910650 | 28   | .50   | 2.00  | 3.00  | .030  | 70   | N    | 30  | 30   | N    | N    | N    | <10  | 10   | N    | 10   | 5    |
| 09910660 | 28   | .70   | 2.00  | 3.00  | .050  | 50   | N    | 50  | 70   | N    | N    | N    | 10   | 15   | N    | 7    | 10   |
| 09910670 | 28   | 2.00  | 3.00  | 5.00  | .100  | 50   | N    | 30  | 100  | <1.0 | <20  | 5    | 20   | 20   | N    | 20   | 15   |
| 09910680 | 28   | .20   | .10   | .20   | .020  | 20   | N    | 50  | 30   | N    | N    | N    | N    | 20   | N    | 100  | 5    |
| 09910690 | 28   | .50   | .10   | .10   | .030  | N    | N    | 30  | 50   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09910700 | 28   | .30   | .10   | .20   | .030  | 10   | N    | 20  | 100  | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09910710 | 28   | 1.00  | 1.50  | 2.00  | .100  | 50   | N    | 50  | 100  | 1.0  | N    | 5    | 20   | 20   | N    | 7    | 15   |
| 09910720 | 28   | 1.50  | 1.00  | .50   | .150  | 50   | N    | 50  | 150  | 1.0  | N    | 7    | 50   | 20   | N    | 10   | 20   |
| 09910730 | 28   | 2.00  | .30   | .10   | .200  | 30   | <.5  | 50  | 150  | 1.0  | N    | <5   | 30   | 20   | N    | 5    | 20   |
| 09910740 | 28   | .20   | .10   | .15   | .050  | <10  | N    | 30  | 30   | N    | N    | N    | <10  | 5    | N    | N    | N    |
| 09910750 | 28   | .70   | .20   | .30   | .070  | 20   | N    | 30  | 70   | N    | N    | N    | 10   | 10   | N    | N    | 5    |
| 09910760 | 28   | .50   | .50   | .50   | .050  | 15   | N    | 20  | 50   | N    | N    | N    | 10   | 15   | N    | N    | 5    |
| 09910770 | 28   | 5.00  | 1.00  | .20   | .500  | 50   | <.5  | 100 | 500  | 2.0  | N    | 10   | 150  | 100  | N    | 20   | 50   |
| 09910780 | 28   | .70   | .15   | .10   | .050  | 30   | N    | 50  | 70   | <1.0 | N    | N    | 10   | 10   | N    | N    | 5    |
| 09910790 | 20   | 1.00  | .30   | .10   | .100  | 10   | <.5  | 70  | 100  | <1.0 | N    | N    | 20   | 10   | N    | 5    | 7    |
| 09910800 | 20   | .07   | .03   | .05   | .005  | N    | N    | 15  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910810 | 20   | .05   | .05   | .07   | .002  | N    | N    | 10  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910820 | 20   | .30   | .03   | .05   | .005  | 10   | N    | 15  | 50   | N    | N    | N    | N    | 10   | N    | N    | N    |
| 09910830 | 20   | .50   | .10   | .07   | .050  | <10  | N    | 15  | 70   | N    | N    | N    | <10  | 7    | N    | N    | 5    |
| 09910840 | 20   | .20   | .10   | .07   | .030  | N    | N    | 30  | 50   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09910850 | 20   | .05   | .02   | .05   | .003  | N    | N    | 20  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910860 | 20   | .10   | .02   | <.05  | .003  | N    | N    | 10  | 20   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910870 | 20   | .20   | .07   | .05   | .030  | N    | N    | 15  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |

| Sample   | S-PB | S-SC | S-SR | S-V | S-Y | S-ZN  | S-ZR | AA-ZN |
|----------|------|------|------|-----|-----|-------|------|-------|
| 09910430 | 10   | N    | N    | 20  | N   | N     | 50   | 25    |
| 09910440 | 30   | <5   | N    | 70  | 15  | N     | 150  | 40    |
| 09910450 | 20   | <5   | <100 | 70  | 10  | N     | 150  | 15    |
| 09910460 | 50   | 7    | <100 | 100 | <10 | N     | 100  | 45    |
| 09910470 | 70   | <5   | <100 | 50  | <10 | 500   | 70   | 700   |
| 09910480 | 150  | <5   | N    | 70  | 10  | 700   | 200  | 770   |
| 09910490 | 15   | N    | N    | 50  | N   | N     | 100  | 60    |
| 09910500 | N    | N    | N    | N   | N   | N     | 10   | 15    |
| 09910510 | <10  | N    | N    | 20  | N   | N     | 50   | 25    |
| 09910520 | N    | N    | N    | N   | N   | N     | 30   | 15    |
| 09910530 | 30   | 5    | N    | 100 | <10 | 1,500 | 100  | 1,500 |
| 09910540 | N    | N    | N    | N   | N   | N     | 50   | 20    |
| 09910550 | 50   | <5   | <100 | 70  | 10  | <200  | 200  | 1,200 |
| 09910560 | 50   | <5   | N    | 50  | 10  | 500   | 150  | 1,000 |
| 09910570 | N    | N    | N    | N   | N   | N     | 15   | 30    |
| 09910580 | N    | N    | <100 | N   | N   | N     | 15   | 30    |
| 09910590 | N    | N    | <100 | 15  | N   | N     | 30   | 40    |
| 09910600 | <10  | N    | N    | 20  | N   | N     | 50   | 70    |
| 09910610 | <10  | N    | N    | 10  | N   | N     | 20   | 15    |
| 09910620 | 15   | N    | <100 | 50  | N   | N     | 100  | 25    |
| 09910630 | 10   | N    | N    | 50  | N   | N     | 70   | 25    |
| 09910640 | 10   | N    | N    | 30  | N   | N     | 30   | 15    |
| 09910650 | <10  | N    | N    | 10  | N   | N     | 10   | 70    |
| 09910660 | <10  | N    | N    | 20  | N   | N     | 20   | 5     |
| 09910670 | 50   | N    | <100 | 50  | N   | 1,000 | 30   | 1,300 |
| 09910680 | N    | N    | N    | N   | N   | N     | 10   | 10    |
| 09910690 | N    | N    | N    | N   | N   | N     | 15   | 90    |
| 09910700 | N    | N    | N    | N   | N   | N     | 30   | 5     |
| 09910710 | 20   | N    | N    | 50  | N   | N     | 50   | 10    |
| 09910720 | 10   | N    | N    | 50  | N   | N     | 70   | 25    |
| 09910730 | 20   | N    | N    | 50  | N   | N     | 70   | 30    |
| 09910740 | N    | N    | N    | N   | N   | N     | 15   | 15    |
| 09910750 | N    | N    | <100 | 15  | N   | N     | 50   | 120   |
| 09910760 | 10   | N    | N    | 20  | N   | N     | 30   | 50    |
| 09910770 | 100  | 7    | <100 | 200 | N   | 200   | 100  | 310   |
| 09910780 | 10   | N    | N    | 10  | N   | 200   | 20   | 230   |
| 09910790 | 15   | N    | N    | 30  | N   | N     | 30   | 100   |
| 09910800 | N    | N    | N    | N   | N   | N     | 15   | 10    |
| 09910810 | N    | N    | N    | N   | N   | N     | 15   | 15    |
| 09910820 | N    | N    | N    | N   | N   | N     | 10   | 75    |
| 09910830 | N    | N    | N    | 15  | N   | N     | 30   | 35    |
| 09910840 | N    | N    | N    | <10 | N   | N     | 20   | 60    |
| 09910850 | N    | N    | N    | N   | N   | N     | 20   | 15    |
| 09910860 | N    | N    | N    | N   | N   | N     | 20   | 15    |
| 09910870 | N    | N    | N    | N   | N   | N     | 30   | 20    |



| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA | S-MO | S-NI |
|----------|------|-------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 09910880 | 20   | .50   | .10   | .10   | .050  | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09910890 | 20   | 2.00  | .50   | .05   | .150  | 20   | N    | 50  | 150  | 1.5  | <20  | N    | 20   | 20   | N    | 5    | 15   |
| 09910900 | 20   | .15   | .07   | .05   | .020  | N    | N    | 20  | 30   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910910 | 20   | .10   | .05   | .05   | .007  | N    | N    | 20  | 30   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910920 | 20   | .10   | .10   | .10   | .010  | N    | N    | 20  | 30   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910930 | 20   | .15   | .02   | <.05  | .003  | N    | N    | 10  | 20   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09910940 | 20   | .05   | .02   | <.05  | .005  | N    | N    | 10  | 20   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910950 | 20   | .15   | .10   | .07   | .010  | N    | N    | 20  | 50   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09910960 | 20   | .20   | .15   | .15   | .007  | 100  | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    | 7    | N    |
| 09910970 | 20   | .70   | .10   | .05   | .020  | 30   | N    | 15  | 50   | N    | N    | N    | N    | 20   | N    | N    | 7    |
| 09910980 | 19   | 2.00  | .70   | .07   | .150  | 50   | <.5  | 100 | 70   | 3.0  | N    | N    | 30   | 30   | N    | 10   | 20   |
| 09910990 | 19   | 5.00  | 1.50  | .10   | .300  | 50   | N    | 200 | 100  | 5.0  | N    | 5    | 100  | 100  | N    | 30   | 70   |
| 09911000 | 19   | .70   | .15   | .05   | .050  | 10   | N    | 30  | 50   | N    | N    | N    | N    | 10   | N    | N    | 5    |
| 09911010 | 19   | 2.00  | .50   | .10   | .100  | 100  | N    | 50  | 150  | 1.0  | N    | N    | 30   | 15   | N    | N    | 15   |
| 09911020 | 19   | 1.00  | .50   | .20   | .070  | 50   | N    | 30  | 70   | <1.0 | N    | N    | 10   | 15   | N    | N    | 7    |
| 09911030 | 19   | .30   | .10   | .10   | .010  | 10   | N    | 10  | 50   | N    | N    | N    | N    | 30   | N    | N    | N    |
| 09911040 | 19   | .20   | .20   | .10   | .070  | 10   | N    | 20  | 70   | N    | N    | N    | 10   | 7    | N    | N    | N    |
| 09911050 | 19   | 1.00  | .15   | .05   | .050  | 100  | N    | 50  | 20   | 1.0  | N    | N    | <10  | 70   | N    | N    | 10   |
| 09911060 | 19   | .15   | .03   | .20   | .002  | 10   | N    | 20  | 30   | N    | N    | N    | N    | 20   | N    | N    | N    |
| 09911070 | 19   | 5.00  | .10   | .07   | .030  | 50   | N    | 15  | 50   | 1.0  | N    | N    | <10  | 300  | N    | N    | 7    |
| 09911080 | 19   | .05   | .05   | .07   | .003  | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09911090 | 19   | .05   | .05   | .07   | .002  | N    | N    | 30  | 20   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09911100 | 19   | .15   | .07   | .07   | .007  | N    | N    | 20  | 30   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09911110 | 19   | .70   | .30   | .15   | .070  | 10   | .5   | 50  | 70   | 1.5  | N    | <5   | 10   | 30   | N    | N    | 20   |
| 09911120 | 19   | .20   | .02   | .07   | .002  | N    | N    | 50  | 30   | N    | N    | N    | N    | 15   | N    | N    | N    |
| 09911130 | 19   | <.05  | <.02  | .05   | <.002 | N    | N    | 50  | 70   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09911140 | 19   | .05   | .05   | .05   | .007  | N    | N    | 30  | 30   | N    | N    | N    | N    | <5   | N    | N    | N    |
| 09911150 | 19   | .20   | .10   | .07   | .010  | N    | N    | 30  | 50   | N    | N    | N    | N    | 20   | N    | N    | 5    |
| 09911160 | 19   | .50   | .15   | .07   | .050  | 15   | N    | 30  | 70   | N    | N    | N    | N    | 50   | N    | <5   | 10   |
| 09911170 | 19   | .15   | .10   | .07   | .020  | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09911180 | 19   | .20   | .15   | .07   | .050  | N    | N    | 30  | 70   | <1.0 | N    | N    | <10  | 10   | N    | 5    | N    |
| 09911190 | 19   | .10   | .03   | .05   | .003  | 15   | N    | 30  | 20   | N    | N    | N    | N    | 20   | N    | N    | 5    |
| 09911200 | 19   | 1.00  | .20   | .07   | .070  | 10   | .5   | 70  | 100  | 1.0  | N    | N    | 15   | 20   | N    | <5   | 20   |
| 09911210 | 19   | .15   | .03   | .05   | .005  | <10  | N    | 30  | N    | N    | N    | N    | N    | 10   | N    | N    | 5    |
| 09911220 | 19   | 7.00  | .70   | .15   | .300  | 50   | 1.0  | 100 | 500  | 2.0  | N    | 20   | 100  | 150  | N    | 500  | 100  |
| 09911230 | 19   | .10   | .05   | .05   | .005  | N    | N    | 30  | N    | N    | N    | N    | N    | <5   | N    | 5    | N    |
| 09911240 | 19   | .15   | .03   | .05   | .003  | N    | N    | 30  | 50   | N    | N    | N    | N    | 5    | N    | N    | N    |
| 09911250 | 19   | .20   | .05   | .05   | .003  | N    | N    | 30  | 20   | N    | N    | N    | N    | 7    | N    | 10   | N    |
| 09911260 | 19   | .70   | .10   | .05   | .050  | 15   | N    | 50  | 50   | <1.0 | N    | 5    | <10  | 20   | N    | <5   | 15   |
| 09911270 | 19   | .07   | .10   | .10   | .005  | N    | N    | 30  | 30   | N    | N    | N    | N    | 7    | N    | N    | N    |
| 09911280 | 19   | 5.00  | .20   | .07   | .200  | 30   | N    | 30  | 150  | <1.0 | N    | 10   | 50   | 50   | N    | 150  | 30   |
| 09911290 | 19   | 2.00  | .70   | .30   | .100  | 30   | <.5  | 50  | 300  | 1.0  | N    | 7    | 20   | 50   | N    | 15   | 20   |
| 09911300 | 19   | 1.50  | .10   | .05   | .070  | 50   | N    | 30  | 500  | N    | N    | <5   | 10   | 15   | N    | 100  | 10   |
| 09911310 | 19   | 2.00  | .30   | .15   | .100  | 20   | N    | 30  | 100  | <1.0 | N    | 5    | 10   | 30   | N    | 20   | 20   |
| 09911320 | 19   | .20   | .02   | .05   | .002  | N    | N    | 30  | 20   | N    | N    | N    | N    | 10   | N    | N    | N    |

| Sample   | S-Pb | S-Sc | S-Sr | S-V | S-Y | S-Zn | S-Zr | AA-Zn |
|----------|------|------|------|-----|-----|------|------|-------|
| 09910880 | 10   | N    | N    | N   | N   | N    | 20   | 35    |
| 09910890 | 20   | N    | N    | 30  | N   | N    | 70   | 60    |
| 09910900 | N    | N    | N    | N   | N   | N    | 10   | 35    |
| 09910910 | N    | N    | N    | N   | N   | N    | 10   | 55    |
| 09910920 | N    | N    | N    | N   | N   | N    | 10   | 40    |
| 09910930 | N    | N    | N    | N   | N   | N    | 30   | 10    |
| 09910940 | N    | N    | N    | N   | N   | N    | 30   | <5    |
| 09910950 | N    | N    | N    | N   | N   | N    | 15   | 10    |
| 09910960 | N    | N    | N    | N   | N   | N    | 50   | 10    |
| 09910970 | <10  | N    | N    | N   | N   | N    | 20   | 20    |
| 09910980 | 70   | N    | N    | 50  | N   | N    | 70   | 100   |
| 09910990 | 200  | 5    | N    | 100 | 10  | 200  | 150  | 350   |
| 09911000 | N    | N    | N    | N   | N   | N    | 30   | 20    |
| 09911010 | 20   | N    | N    | 50  | N   | N    | 50   | 20    |
| 09911020 | 20   | N    | N    | 10  | N   | N    | 20   | 15    |
| 09911030 | N    | N    | N    | N   | N   | N    | 10   | 20    |
| 09911040 | N    | N    | N    | <10 | N   | N    | 20   | 10    |
| 09911050 | <10  | N    | N    | <10 | N   | N    | 15   | 65    |
| 09911060 | N    | N    | N    | N   | N   | N    | N    | 15    |
| 09911070 | 50   | N    | N    | 15  | N   | 200  | N    | 190   |
| 09911080 | N    | N    | N    | N   | N   | N    | N    | 5     |
| 09911090 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911100 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911110 | 50   | N    | N    | 50  | N   | N    | 15   | 40    |
| 09911120 | N    | N    | N    | N   | N   | N    | N    | 5     |
| 09911130 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911140 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911150 | 10   | N    | N    | 15  | N   | N    | N    | 5     |
| 09911160 | 10   | N    | N    | 10  | N   | N    | 10   | 20    |
| 09911170 | N    | N    | N    | N   | N   | N    | N    | 15    |
| 09911180 | N    | N    | N    | 30  | N   | N    | 10   | 15    |
| 09911190 | N    | N    | N    | N   | N   | N    | 10   | 10    |
| 09911200 | 20   | N    | N    | 50  | N   | N    | 20   | 15    |
| 09911210 | N    | N    | N    | N   | N   | N    | N    | 10    |
| 09911220 | 100  | 7    | <100 | 200 | N   | N    | 100  | 40    |
| 09911230 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911240 | N    | N    | N    | N   | N   | N    | N    | 5     |
| 09911250 | N    | N    | N    | N   | N   | N    | N    | 10    |
| 09911260 | 20   | N    | N    | 15  | N   | N    | 10   | 15    |
| 09911270 | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911280 | 150  | N    | N    | 20  | N   | N    | 100  | 25    |
| 09911290 | 200  | N    | N    | 70  | N   | N    | 30   | 100   |
| 09911300 | 10   | N    | <100 | 10  | N   | N    | 150  | 5     |
| 09911310 | 20   | N    | N    | 15  | N   | N    | 50   | 25    |
| 09911320 | N    | N    | N    | N   | N   | N    | N    | 5     |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA | S-MO | S-NI |
|----------|------|-------|-------|-------|-------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 09911330 | 19   | .10   | .20   | .30   | .020  | <10  | N    | 30  | 50   | N    | N    | N    | N    | 15   | N    | N    | N    |
| 09911340 | 18   | .05   | .02   | <.05  | .002  | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    | N    | N    |
| 09911350 | 18   | .05   | .02   | <.05  | .003  | N    | N    | N   | N    | N    | N    | N    | N    | N    | N    | N    | N    |
| 09911360 | 18   | .20   | .02   | <.05  | .007  | N    | N    | 10  | N    | N    | N    | N    | N    | <5   | N    | N    | N    |

| Sample   | S-PB | S-SC | S-SR | S-V | S-Y | S-ZN | S-ZK | AA-ZN |
|----------|------|------|------|-----|-----|------|------|-------|
| 099I1330 | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 099I1340 | N    | N    | N    | N   | N   | N    | 15   | <5    |
| 099I1350 | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 099I1360 | N    | N    | N    | N   | N   | N    | 30   | 10    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TIX | S-MN | S-AG | S-AS  | S-B | S-BA | S-BE | S-CC | S-CR | S-CU  | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|-------|-----|------|------|------|------|-------|------|------|
| 09911370 | 18   | .05   | .02   | <.05  | .003  | N    | N    | N     | N   | N    | N    | N    | N    | N     | N    | N    |
| 09911380 | 18   | .05   | .02   | <.05  | .003  | N    | N    | N     | N   | N    | N    | N    | N    | N     | N    | N    |
| 09911390 | 18   | .70   | .15   | .05   | .070  | <10  | N    | N     | 20  | 70   | 1.0  | N    | 10   | 10    | N    | N    |
| 09911400 | 17   | 2.00  | .10   | <.05  | .050  | 20   | N    | N     | 20  | 20   | 1.0  | N    | N    | 20    | N    | 7    |
| 09911410 | 17   | 1.00  | .07   | <.05  | .020  | 50   | N    | N     | 15  | 20   | <1.0 | N    | N    | 7     | N    | N    |
| 09911420 | 17   | .30   | .05   | .05   | .015  | N    | N    | N     | 20  | 20   | <1.0 | N    | N    | 7     | N    | N    |
| 09911430 | 17   | .50   | .20   | .07   | .050  | N    | N    | N     | 50  | 50   | 1.0  | N    | <10  | 7     | N    | N    |
| 09911440 | 17   | .50   | .15   | .07   | .030  | N    | N    | N     | 20  | 30   | N    | N    | N    | 20    | N    | N    |
| 09911450 | 17   | 1.50  | .05   | .10   | .007  | N    | <.5  | N     | 20  | 30   | 1.0  | N    | N    | 70    | N    | <5   |
| 09911460 | 17   | .10   | .02   | .07   | .003  | N    | N    | N     | 15  | 30   | N    | N    | N    | 5     | N    | N    |
| 09911470 | 17   | .15   | .10   | .15   | .010  | N    | N    | N     | 15  | 20   | N    | N    | N    | 10    | N    | N    |
| 09911480 | 17   | 1.00  | .30   | .05   | .100  | 15   | <.5  | N     | 30  | 100  | 1.5  | <5   | 20   | 50    | N    | N    |
| 09911490 | 17   | .15   | .10   | .05   | .020  | N    | N    | N     | 20  | 20   | N    | N    | N    | 7     | N    | N    |
| 09911500 | 17   | 2.00  | .70   | .05   | .200  | 20   | <.5  | N     | 70  | 150  | 2.0  | 10   | 50   | 100   | N    | 50   |
| 09911510 | 17   | 1.00  | .30   | .15   | .070  | 10   | N    | N     | 50  | 30   | 1.5  | 5    | 10   | 20    | N    | 30   |
| 09911520 | 17   | 5.00  | 1.00  | .20   | .300  | 70   | 1.5  | N     | 100 | 150  | 5.0  | 30   | 150  | 100   | N    | 7    |
| 09911530 | 17   | 3.00  | .70   | .05   | .150  | 20   | 1.0  | N     | 100 | 50   | 2.0  | 15   | 50   | 50    | N    | 70   |
| 09911540 | 17   | 10.00 | 1.00  | .10   | .150  | 100  | 1.0  | N     | 100 | 50   | 2.0  | 30   | 30   | 200   | N    | 50   |
| 09911550 | 17   | 7.00  | 1.00  | .07   | .200  | 30   | 2.0  | N     | 150 | 70   | 2.0  | 10   | 70   | 100   | N    | 20   |
| 09911560 | 17   | 2.00  | .70   | .15   | .150  | 50   | 1.0  | N     | 70  | 100  | 1.5  | 7    | 50   | 70    | N    | 10   |
| 09911570 | 17   | 10.00 | 1.00  | .10   | .200  | 50   | 1.5  | N     | 100 | 150  | 2.0  | 20   | 70   | 150   | N    | 100  |
| 09911590 | 17   | 15.00 | .70   | .15   | .200  | 30   | <.5  | N     | 150 | 300  | 1.5  | 7    | 30   | 100   | 30   | 15   |
| 09911600 | 17   | 7.00  | .70   | .15   | .100  | 70   | 1.0  | N     | 100 | 70   | 2.0  | 10   | 50   | 500   | N    | 20   |
| 09911610 | 17   | 3.00  | .10   | .10   | .020  | <10  | .7   | N     | 20  | N    | <1.0 | 7    | N    | 200   | N    | N    |
| 09911620 | 17   | 7.00  | .30   | .07   | .100  | 20   | 1.0  | 500   | 70  | 70   | 1.0  | 15   | 20   | 100   | N    | 100  |
| 09911630 | 17   | 10.00 | .70   | .07   | .100  | 50   | 2.0  | 1,000 | 100 | 150  | 5.0  | 20   | 70   | 100   | N    | 150  |
| 09911640 | 17   | 15.00 | .10   | .10   | .030  | 20   | 5.0  | 5,000 | 10  | 50   | 1.0  | 70   | N    | 1,000 | N    | 100  |
| 09911650 | 17   | 5.00  | .50   | .30   | .100  | 20   | 2.0  | 500   | 30  | 30   | 1.5  | 20   | 20   | 150   | N    | 20   |
| 09911660 | 16   | 3.00  | .15   | .15   | .020  | 30   | .5   | N     | 20  | N    | 1.0  | 7    | 10   | 50    | N    | 5    |
| 09911670 | 16   | 5.00  | .20   | .20   | .070  | 50   | <.5  | 300   | 50  | 70   | N    | 15   | 10   | 100   | N    | 20   |
| 09911680 | 16   | 1.00  | .15   | .50   | .070  | 20   | .5   | N     | 50  | 100  | N    | 10   | <10  | 20    | N    | <5   |
| 09911690 | 16   | 2.00  | .15   | .30   | .003  | 30   | .7   | N     | 30  | 20   | 1.0  | 5    | N    | 30    | N    | 10   |
| 09911700 | 16   | 5.00  | .10   | .10   | .002  | 150  | .7   | N     | 15  | 20   | <1.0 | 7    | N    | 150   | N    | 10   |
| 09911710 | 16   | 20.00 | .50   | .10   | .020  | 200  | 1.0  | 3,000 | 30  | 20   | 2.0  | 70   | 30   | 500   | N    | 50   |
| 09911720 | 16   | 3.00  | 1.00  | .10   | .200  | 50   | .5   | N     | 100 | 200  | 2.0  | 10   | 70   | 50    | N    | 7    |
| 09911730 | 16   | 10.00 | 1.00  | .10   | .150  | 70   | 2.0  | 500   | 100 | 200  | 3.0  | 30   | 70   | 200   | N    | 20   |
| 09911740 | 16   | 20.00 | .50   | .10   | .100  | 100  | 3.0  | 2,000 | 50  | 70   | 2.0  | 50   | 30   | 300   | N    | 50   |
| 09911750 | 16   | 15.00 | .50   | .10   | .100  | 30   | 7.0  | 2,000 | 70  | 70   | 2.0  | 70   | 20   | 1,500 | N    | 70   |
| 09911760 | 16   | 10.00 | .50   | .07   | .150  | 50   | 3.0  | 300   | 50  | 500  | 2.0  | 20   | 30   | 300   | N    | 30   |
| 09911770 | 16   | 5.00  | 1.00  | .07   | .300  | 50   | N    | N     | 70  | 500  | 2.0  | 10   | 70   | 50    | 50   | 100  |
| 09911780 | 15   | 10.00 | .10   | .07   | .050  | 50   | .7   | 500   | 20  | 150  | <1.0 | 10   | N    | 70    | N    | 20   |
| 09911790 | 15   | 2.00  | .15   | .10   | .050  | 15   | <.5  | N     | 50  | 50   | <1.0 | 7    | <10  | 20    | N    | 15   |
| 09911800 | 15   | 7.00  | .15   | .07   | .100  | 50   | 1.5  | N     | 100 | 100  | 2.0  | 20   | 15   | 70    | 20   | 10   |
| 09911810 | 15   | 3.00  | .30   | .50   | .050  | 30   | <.5  | N     | 20  | 70   | <1.0 | 7    | N    | 20    | N    | 7    |
| 09911820 | 15   | 10.00 | .10   | .10   | .050  | 50   | .7   | 200   | 15  | 70   | N    | 20   | N    | 100   | N    | 15   |

| Sample   | S-NB | S-NI | S-FR | S-SC | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|-----|-----|------|------|-------|
| 09911370 | N    | N    | N    | N    | N    | N   | N   | N    | 30   | 5     |
| 09911380 | N    | N    | N    | N    | N    | N   | N   | N    | 20   | <5    |
| 09911390 | N    | 5    | N    | N    | N    | 10  | N   | 200  | 50   | 290   |
| 09911400 | N    | 5    | 30   | N    | N    | 10  | N   | N    | 30   | 25    |
| 09911410 | N    | 5    | 15   | N    | N    | N   | N   | N    | 20   | 15    |
| 09911420 | N    | <5   | N    | N    | N    | N   | N   | N    | 15   | 10    |
| 09911430 | N    | 5    | 10   | N    | N    | 10  | N   | N    | 20   | 10    |
| 09911440 | N    | 7    | N    | N    | N    | 20  | N   | N    | 20   | 15    |
| 09911450 | N    | 10   | 20   | N    | N    | N   | N   | N    | N    | 35    |
| 09911460 | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 09911470 | N    | N    | N    | N    | N    | N   | N   | N    | N    | 5     |
| 09911480 | N    | 15   | 10   | N    | N    | 50  | N   | N    | 50   | 15    |
| 09911490 | N    | N    | N    | N    | N    | N   | N   | N    | N    | --    |
| 09911500 | N    | 30   | 50   | N    | N    | 150 | N   | N    | 70   | 5     |
| 09911510 | N    | 15   | 20   | N    | N    | 30  | N   | N    | 30   | 5     |
| 09911520 | N    | 70   | 150  | 5    | N    | 200 | N   | N    | 100  | 30    |
| 09911530 | N    | 50   | 100  | N    | N    | 70  | N   | N    | 50   | 20    |
| 09911540 | N    | 100  | 150  | N    | N    | 100 | N   | N    | 30   | 60    |
| 09911550 | N    | 30   | 150  | <5   | N    | 100 | N   | N    | 100  | 45    |
| 09911560 | N    | 70   | 30   | N    | N    | 150 | N   | N    | 50   | 10    |
| 09911570 | N    | 100  | 150  | <5   | N    | 200 | N   | 200  | 100  | 290   |
| 09911590 | N    | 30   | 150  | <5   | N    | 50  | 20  | N    | 150  | 45    |
| 09911600 | N    | 100  | 150  | N    | N    | 70  | N   | N    | 50   | --    |
| 09911610 | N    | 20   | 30   | N    | N    | 10  | N   | N    | 100  | 30    |
| 09911620 | N    | 50   | 100  | N    | N    | 20  | <10 | N    | 70   | --    |
| 09911630 | N    | 70   | 150  | <5   | N    | 50  | 10  | N    | 150  | 35    |
| 09911640 | N    | 200  | 500  | N    | N    | N   | N   | N    | 70   | --    |
| 09911650 | N    | 100  | 100  | N    | N    | 30  | N   | N    | 30   | 65    |
| 09911660 | N    | 30   | 20   | N    | N    | 30  | N   | N    | 20   | 5     |
| 09911670 | N    | 50   | 100  | N    | N    | 30  | N   | <200 | 50   | 120   |
| 09911680 | N    | 20   | 50   | N    | N    | 10  | 20  | N    | 500  | 85    |
| 09911690 | N    | 15   | 30   | N    | N    | <10 | N   | N    | N    | --    |
| 09911700 | N    | 20   | 70   | N    | N    | <10 | N   | <200 | N    | --    |
| 09911710 | N    | 200  | 300  | N    | N    | 100 | N   | 200  | 20   | 170   |
| 09911720 | N    | 30   | 30   | 5    | N    | 100 | <10 | N    | 150  | 10    |
| 09911730 | N    | 100  | 150  | 5    | N    | 100 | 10  | N    | 200  | 25    |
| 09911740 | N    | 150  | 300  | <5   | N    | 100 | <10 | 200  | 50   | 85    |
| 09911750 | N    | 150  | 500  | <5   | N    | 50  | <10 | N    | 100  | --    |
| 09911760 | N    | 70   | 200  | <5   | N    | 50  | 15  | N    | 300  | 45    |
| 09911770 | N    | 20   | 100  | 5    | <100 | 70  | 20  | N    | 150  | 10    |
| 09911780 | N    | 30   | 200  | N    | N    | N   | <10 | N    | 100  | --    |
| 09911790 | N    | 20   | 100  | N    | N    | N   | N   | N    | 100  | --    |
| 09911800 | N    | 50   | 200  | <5   | N    | 30  | 20  | N    | 200  | --    |
| 09911810 | N    | 15   | 100  | N    | N    | N   | N   | N    | 70   | --    |
| 09911820 | N    | 30   | 200  | N    | N    | N   | N   | N    | 70   | 35    |

| Sample   | FORM | S-FEX | S-MGZ | S-CAZ | S-TIX | S-MN | S-AG | S-AS | S-H | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 09911830 | 15   | 10.00 | .10   | .07   | .030  | 50   | .7   | 200  | 20  | 70    | N    | 20   | <10  | 70   | N    | 7    |
| 09911840 | 15   | 10.00 | .50   | .10   | .300  | 70   | .5   | N    | 20  | 700   | 2.0  | 10   | 20   | 50   | 50   | 10   |
| 09911850 | 15   | 3.00  | .70   | .15   | .300  | 50   | <.5  | N    | 30  | 1,000 | 1.5  | 5    | 50   | 20   | 70   | 7    |
| 09911860 | 15   | 2.00  | 1.00  | 1.00  | .200  | 50   | N    | N    | 50  | 700   | 2.0  | 5    | 20   | 15   | 50   | 7    |
| 09911870 | 15   | 3.00  | 1.00  | .30   | .200  | 70   | N    | N    | 100 | 500   | 2.0  | <5   | 30   | 15   | 50   | 15   |
| 09911880 | 15   | 3.00  | .70   | .20   | .200  | 50   | N    | N    | 100 | 500   | 2.0  | 7    | 30   | 20   | 50   | 10   |
| 09911890 | 15   | 3.00  | 1.00  | .30   | .300  | 50   | N    | N    | 150 | 700   | 2.0  | 5    | 50   | 20   | 70   | 10   |
| 09911900 | 15   | 3.00  | 1.00  | .30   | .200  | 50   | N    | N    | 150 | 700   | 2.0  | 7    | 50   | 20   | 70   | 5    |
| 09911910 | 14   | 2.00  | 1.50  | 1.00  | .200  | 70   | N    | N    | 150 | 500   | 2.0  | 7    | 30   | 15   | 70   | <5   |
| 09911920 | 14   | 2.00  | 1.00  | .30   | .200  | 50   | N    | N    | 150 | 500   | 2.0  | 10   | 30   | 15   | 70   | N    |
| 09911930 | 14   | 3.00  | 1.00  | .30   | .200  | 50   | N    | N    | 150 | 700   | 2.0  | 15   | 50   | 10   | 100  | N    |
| 09911940 | 13   | 5.00  | .70   | .20   | .200  | 50   | N    | N    | 100 | 700   | 7.0  | 20   | 15   | 10   | 30   | N    |
| 09911950 | 13   | 1.00  | .10   | .05   | .100  | 20   | N    | N    | 30  | 200   | 1.0  | 5    | N    | 7    | N    | N    |
| 09911960 | 12   | 1.00  | .20   | .07   | .150  | 20   | N    | N    | 30  | 500   | 1.0  | 7    | 10   | 15   | 30   | N    |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-Y | S-ZN | S-ZR  | AA-ZN |
|----------|------|------|------|------|------|-----|-----|------|-------|-------|
| 09911830 | N    | 50   | 300  | N    | N    | N   | N   | N    | 20    | 20    |
| 09911840 | <20  | 15   | 500  | 5    | <100 | 30  | 30  | N    | 500   | 25    |
| 09911850 | <20  | 10   | 100  | 5    | 100  | 70  | 30  | N    | 200   | 15    |
| 09911860 | <20  | 10   | 50   | 5    | <100 | 30  | 20  | N    | 200   | 10    |
| 09911870 | N    | 7    | 70   | 5    | <100 | 50  | 15  | N    | 150   | 10    |
| 09911880 | N    | 20   | 50   | 5    | <100 | 50  | 20  | N    | 200   | 10    |
| 09911890 | <20  | 15   | 50   | 7    | <100 | 70  | 20  | N    | 150   | 10    |
| 09911900 | N    | 15   | 20   | 7    | 100  | 70  | 20  | N    | 100   | 10    |
| 09911910 | N    | 15   | 15   | 7    | 100  | 70  | 30  | N    | 100   | 10    |
| 09911920 | N    | 15   | 20   | 7    | 150  | 70  | 30  | N    | 100   | 10    |
| 09911930 | N    | 10   | 15   | 7    | 150  | 70  | 30  | N    | 100   | 10    |
| 09911940 | <20  | 15   | 20   | 5    | N    | 50  | 30  | N    | 500   | 5     |
| 09911950 | N    | 5    | 15   | N    | N    | <10 | 20  | N    | 1,000 | 5     |
| 09911960 | N    | 7    | 20   | <5   | <100 | 20  | 30  | N    | 500   | <5    |



TABLE 6.--Spectrographic analyses of insoluble-residue samples from drill hole no. 100.

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS | S-B | S-BA | S-RE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 10010730 | 18   | .15   | .15   | .30   | .005  | 30   | N    | N    | 15  | 50   | N    | N    | N    | 10   | N    | N    |
| 10010740 | 18   | <.05  | .02   | <.05  | .003  | N    | N    | N    | N   | 20   | N    | N    | N    | <5   | N    | N    |
| 10010750 | 18   | <.05  | .02   | <.05  | .003  | N    | N    | N    | N   | N    | N    | N    | N    | <5   | N    | N    |
| 10010760 | 18   | <.05  | .02   | <.05  | .005  | N    | N    | N    | 10  | N    | N    | N    | N    | <5   | N    | N    |
| 10010770 | 18   | <.05  | .03   | <.05  | .005  | N    | N    | N    | 10  | N    | N    | N    | N    | <5   | N    | N    |
| 10010780 | 18   | <.05  | <.02  | <.05  | .003  | N    | N    | N    | 10  | N    | N    | N    | N    | N    | N    | N    |
| 10010790 | 17   | .50   | .02   | <.05  | .003  | N    | N    | N    | 15  | N    | N    | N    | N    | 5    | N    | N    |
| 10010800 | 17   | 2.00  | .05   | .07   | .005  | N    | .5   | N    | 20  | 30   | N    | N    | N    | 100  | N    | 5    |
| 10010810 | 17   | 10.00 | .30   | .05   | .100  | 20   | 5.0  | 300  | 50  | 50   | 1.0  | 20   | 20   | 150  | N    | 20   |
| 10010820 | 17   | .70   | .10   | .05   | .015  | N    | <.5  | N    | 30  | N    | N    | N    | N    | 20   | N    | N    |
| 10010830 | 17   | .20   | .10   | .10   | .010  | N    | N    | N    | 30  | N    | N    | N    | N    | 7    | N    | N    |
| 10010840 | 17   | .50   | .05   | .07   | .005  | N    | N    | N    | 15  | N    | N    | N    | N    | 10   | N    | N    |
| 10010850 | 17   | 2.00  | .20   | .30   | .020  | 15   | N    | N    | 50  | N    | 2.0  | 5    | <10  | 30   | N    | N    |
| 10010860 | 17   | 7.00  | 1.00  | .10   | .200  | 50   | 3.0  | 200  | 100 | 200  | 3.0  | 20   | 50   | 200  | N    | 15   |

| Sample   | S-NB | S-NI | S-PR | S-SC | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|-----|-----|------|-------|
| 10010730 | N    | N    | N    | N    | N    | N   | N   | N    | 10    |
| 10010740 | N    | N    | N    | N    | N    | N   | N   | 10   | <5    |
| 10010750 | N    | N    | N    | N    | N    | N   | N   | 10   | <5    |
| 10010760 | N    | N    | N    | N    | N    | N   | N   | 15   | <5    |
| 10010770 | N    | N    | N    | N    | N    | N   | N   | 20   | <5    |
| 10010780 | N    | N    | N    | N    | N    | N   | N   | 20   | <5    |
| 10010790 | N    | 5    | 10   | N    | N    | N   | N   | 20   | <5    |
| 10010800 | N    | 7    | 30   | N    | N    | N   | N   | N    | 10    |
| 10010810 | N    | 100  | 200  | N    | N    | 50  | N   | 200  | --    |
| 10010820 | N    | N    | N    | N    | N    | <10 | N   | 20   | 10    |
| 10010830 | N    | N    | N    | N    | N    | N   | N   | N    | 5     |
| 10010840 | N    | N    | N    | N    | N    | N   | N   | 20   | 15    |
| 10010850 | N    | 15   | 15   | N    | N    | 30  | N   | 10   | --    |
| 10010860 | N    | 70   | 150  | <5   | N    | 100 | N   | 100  | --    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS  | S-B | S-BA | S-RE | S-CO | S-CR | S-CU  | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|-------|-----|------|------|------|------|-------|------|------|
| 100I0870 | 17   | .30   | .20   | .30   | .005  | 20   | N    | N     | 20  | N    | N    | N    | N    | 10    | N    | N    |
| 100I0880 | 17   | 2.00  | 1.00  | .10   | .200  | 30   | <.5  | N     | 100 | 70   | 2.0  | 10   | 30   | 100   | N    | N    |
| 100I0390 | 17   | 3.00  | .70   | .05   | .150  | 20   | 1.0  | N     | 100 | 50   | 1.5  | 10   | 30   | 700   | N    | <5   |
| 100I0900 | 17   | 10.00 | 1.00  | .10   | .300  | 30   | 2.0  | N     | 150 | 200  | 2.0  | 15   | 50   | 300   | N    | 15   |
| 100I0910 | 17   | 15.00 | .30   | .15   | .020  | 15   | 3.0  | 1.000 | 20  | N    | N    | 30   | N    | 300   | N    | 20   |
| 100I0930 | 17   | 7.00  | 1.00  | .50   | .200  | 100  | 1.0  | N     | 100 | 70   | 1.0  | 10   | 70   | 100   | N    | <5   |
| 100I0940 | 17   | 10.00 | .70   | .50   | .150  | 30   | 2.0  | 1.000 | 100 | 30   | 1.0  | 20   | 30   | 500   | N    | 10   |
| 100I0950 | 17   | 2.00  | .70   | .10   | .500  | 50   | N    | N     | 100 | 500  | 2.0  | 5    | 50   | 50    | 50   | N    |
| 100I0970 | 17   | 7.00  | .50   | .10   | .150  | 50   | 2.0  | N     | 70  | 70   | 1.0  | 30   | 30   | 2,000 | N    | 10   |
| 100I0980 | 17   | 7.00  | .70   | .10   | .200  | 50   | 2.0  | N     | 100 | 70   | 2.0  | 20   | 50   | 300   | N    | 7    |
| 100I0990 | 17   | 5.00  | 1.50  | .15   | .300  | 70   | 2.0  | N     | 200 | 100  | 3.0  | 20   | 100  | 500   | N    | 15   |
| 100I1000 | 17   | 5.00  | .10   | .07   | .050  | 15   | 1.5  | 500   | 20  | N    | N    | 10   | N    | 100   | N    | <5   |
| 100I1010 | 17   | 3.00  | 1.50  | .20   | .500  | 70   | <.5  | N     | 100 | 500  | 2.0  | 15   | 100  | 200   | 150  | 5    |
| 100I1020 | 17   | 5.00  | .20   | .30   | .050  | 30   | 1.5  | N     | 30  | N    | N    | 15   | N    | 300   | N    | 7    |
| 100I1030 | 17   | 10.00 | .50   | .20   | .100  | 50   | 2.0  | 1.500 | 70  | 50   | 1.0  | 20   | 30   | 100   | N    | 20   |
| 100I1040 | 17   | .50   | .15   | .20   | .002  | N    | <.5  | N     | 20  | N    | N    | N    | N    | 20    | N    | N    |
| 100I1050 | 17   | 1.00  | .15   | .20   | .070  | 15   | N    | N     | 30  | 50   | N    | N    | N    | 20    | N    | N    |
| 100I1060 | 17   | 20.00 | .07   | .10   | .010  | 20   | 3.0  | 700   | 10  | N    | N    | 70   | <10  | 1,000 | N    | 30   |
| 100I1070 | 16   | 1.00  | .10   | .07   | .020  | 20   | N    | N     | 70  | 20   | N    | N    | 30   | 20    | N    | 5    |
| 100I1080 | 16   | 1.50  | .20   | .30   | .005  | <10  | .7   | N     | 100 | 300  | N    | 7    | N    | 1,500 | N    | 7    |
| 100I1090 | 16   | 2.00  | .10   | .10   | .003  | 50   | .7   | N     | 50  | N    | N    | 10   | <10  | 50    | N    | 5    |
| 100I1100 | 16   | .20   | .30   | .50   | .007  | 20   | N    | N     | 30  | N    | N    | N    | <10  | 15    | N    | N    |
| 100I1110 | 16   | 1.50  | .15   | .20   | .003  | 10   | N    | N     | 20  | N    | N    | N    | N    | 20    | N    | N    |
| 100I1120 | 16   | 1.00  | .10   | .15   | .003  | N    | <.5  | N     | 70  | N    | N    | 5    | N    | 300   | N    | N    |
| 100I1130 | 16   | .50   | .10   | .15   | .020  | 10   | N    | N     | 30  | 70   | N    | N    | N    | 20    | N    | N    |
| 100I1140 | 16   | .50   | .07   | .10   | .005  | N    | <.5  | N     | 30  | N    | N    | N    | N    | 100   | N    | N    |
| 100I1150 | 16   | .70   | .10   | .10   | .007  | <10  | N    | N     | 30  | N    | N    | N    | N    | 50    | N    | N    |
| 100I1160 | 16   | .50   | .10   | .10   | .005  | N    | N    | N     | 50  | N    | N    | 5    | N    | 20    | N    | N    |
| 100I1170 | 16   | 2.00  | .20   | .30   | .003  | <10  | 1.0  | N     | 15  | N    | N    | 7    | N    | 100   | N    | 7    |
| 100I1180 | 16   | 1.50  | .20   | .20   | .070  | 20   | N    | N     | 50  | 100  | 1.0  | 5    | N    | 10    | 20   | 7    |
| 100I1190 | 16   | 1.00  | .20   | .30   | .070  | 70   | N    | N     | 30  | 70   | N    | N    | N    | 15    | N    | 15   |
| 100I1200 | 16   | .70   | .20   | .30   | .030  | 15   | N    | N     | 70  | N    | N    | N    | N    | 15    | N    | N    |
| 100I1210 | 16   | .10   | .70   | 1.00  | .005  | 70   | N    | N     | 70  | N    | N    | N    | N    | 5     | N    | N    |
| 100I1220 | 15   | 3.00  | .10   | .05   | .150  | 20   | .5   | N     | 20  | 500  | N    | 10   | 15   | 30    | N    | 20   |
| 100I1230 | 15   | 7.00  | .50   | .10   | .150  | 50   | <.5  | N     | 50  | 300  | 2.0  | 15   | 20   | 50    | 30   | 50   |
| 100I1240 | 15   | 5.00  | .70   | .20   | .300  | 50   | N    | N     | 50  | 500  | 1.0  | 10   | 100  | 50    | 20   | 50   |
| 100I1250 | 15   | 5.00  | .50   | .15   | .500  | 50   | .5   | N     | 50  | 500  | 2.0  | 10   | 70   | 70    | 20   | 10   |
| 100I1260 | 15   | 5.00  | .70   | .05   | .500  | 50   | <.5  | N     | 50  | 700  | 1.5  | 10   | 100  | 70    | 50   | 7    |
| 100I1270 | 15   | 7.00  | .70   | .15   | .700  | 70   | N    | N     | 50  | 700  | 2.0  | 15   | 100  | 100   | 70   | 5    |
| 100I1280 | 15   | 5.00  | 1.00  | .30   | .500  | 70   | N    | N     | 70  | 700  | 2.0  | 10   | 70   | 50    | 100  | 7    |
| 100I1290 | 15   | 2.00  | 1.50  | 1.50  | .300  | 70   | N    | N     | 100 | 500  | 3.0  | 10   | 70   | 20    | 100  | <5   |
| 100I1300 | 15   | 3.00  | 1.50  | .50   | .300  | 50   | N    | N     | 100 | 500  | 2.0  | 15   | 100  | 50    | 100  | 5    |
| 100I1310 | 14   | 2.00  | 2.00  | 2.00  | .300  | 200  | N    | N     | 100 | 500  | 3.0  | 10   | 70   | 20    | 100  | N    |
| 100I1320 | 14   | 3.00  | 2.00  | 1.50  | .300  | 150  | N    | N     | 100 | 500  | 2.0  | 7    | 100  | 20    | 100  | N    |
| 100I1330 | 14   | 2.00  | 1.50  | .50   | .500  | 100  | N    | N     | 100 | 500  | 3.0  | 7    | 70   | 10    | 100  | N    |

| Sample   | S-NB | S-NI | S-PR | S-SC | S-SR | S-V | S-Y | S-ZR  | AA-LN |
|----------|------|------|------|------|------|-----|-----|-------|-------|
| 100I0870 | N    | N    | N    | N    | N    | N   | N   | N     | 20    |
| 100I0880 | N    | 30   | 20   | <5   | N    | 100 | N   | 70    | 5     |
| 100I0890 | N    | 30   | 100  | N    | N    | 70  | N   | 50    | --    |
| 100I0900 | N    | 50   | 150  | 5    | N    | 70  | 15  | 300   | --    |
| 100I0910 | N    | 100  | 200  | N    | N    | 10  | N   | 50    | --    |
| 100I0930 | N    | 30   | 200  | <5   | N    | 70  | 10  | 70    | --    |
| 100I0940 | N    | 70   | 300  | N    | N    | 50  | N   | 50    | --    |
| 100I0950 | 20   | 10   | 20   | 7    | 200  | 70  | 50  | 1,000 | 15    |
| 100I0970 | N    | 70   | 200  | <5   | N    | 70  | N   | 50    | --    |
| 100I0980 | N    | 50   | 100  | 5    | N    | 100 | N   | 70    | --    |
| 100I0990 | N    | 70   | 100  | 10   | N    | 200 | <10 | 70    | --    |
| 100I1000 | N    | 50   | 70   | N    | N    | N   | N   | 30    | --    |
| 100I1010 | <20  | 50   | 200  | 10   | 200  | 100 | 20  | 200   | 15    |
| 100I1020 | N    | 50   | 150  | N    | N    | 15  | N   | 10    | --    |
| 100I1030 | N    | 100  | 300  | <5   | N    | 70  | N   | 30    | --    |
| 100I1040 | N    | 7    | <10  | N    | N    | N   | N   | N     | --    |
| 100I1050 | N    | 7    | 15   | N    | N    | N   | N   | 200   | --    |
| 100I1060 | N    | 150  | 200  | N    | N    | 20  | N   | N     | 30    |
| 100I1070 | N    | 10   | N    | N    | N    | 50  | N   | 10    | 10    |
| 100I1080 | N    | 20   | 30   | N    | N    | N   | N   | 20    | --    |
| 100I1090 | N    | 20   | 30   | N    | N    | N   | N   | 15    | 15    |
| 100I1100 | N    | N    | N    | N    | N    | 20  | N   | N     | 5     |
| 100I1110 | N    | 7    | 10   | N    | N    | N   | N   | 100   | --    |
| 100I1120 | N    | 10   | 10   | N    | N    | N   | N   | 10    | --    |
| 100I1130 | N    | 7    | <10  | N    | N    | N   | N   | 70    | 15    |
| 100I1140 | N    | 5    | <10  | N    | N    | N   | N   | 100   | 15    |
| 100I1150 | N    | 5    | <10  | N    | N    | N   | N   | 70    | --    |
| 100I1160 | N    | 7    | N    | N    | N    | N   | 15  | 150   | --    |
| 100I1170 | N    | 30   | 50   | N    | N    | N   | N   | N     | --    |
| 100I1180 | N    | 7    | 15   | N    | N    | N   | N   | 70    | 5     |
| 100I1190 | N    | 7    | 20   | N    | N    | N   | N   | 30    | 5     |
| 100I1200 | N    | 5    | <10  | N    | N    | N   | N   | 20    | 5     |
| 100I1210 | N    | N    | N    | N    | N    | N   | N   | 10    | <5    |
| 100I1220 | N    | 20   | 100  | N    | N    | 10  | 10  | 100   | --    |
| 100I1230 | N    | 20   | 150  | N    | N    | 30  | 15  | 500   | --    |
| 100I1240 | N    | 30   | 100  | <5   | N    | 70  | 20  | 150   | --    |
| 100I1250 | <20  | 30   | 100  | 5    | N    | 70  | 20  | 200   | --    |
| 100I1260 | <20  | 30   | 70   | 5    | 100  | 100 | 30  | 300   | --    |
| 100I1270 | <20  | 50   | 100  | 5    | 100  | 100 | 30  | 300   | --    |
| 100I1280 | <20  | 30   | 70   | 7    | 150  | 100 | 30  | 100   | 10    |
| 100I1290 | <20  | 20   | 30   | 5    | 150  | 70  | 20  | 150   | 10    |
| 100I1300 | N    | 30   | 50   | 7    | 150  | 150 | 20  | 100   | 15    |
| 100I1310 | N    | 20   | 30   | 7    | 150  | 100 | 20  | 150   | 10    |
| 100I1320 | N    | 15   | 30   | 10   | 150  | 100 | 20  | 150   | 5     |
| 100I1330 | <20  | 10   | 15   | 7    | 150  | 100 | 30  | 200   | 5     |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TIZ | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 10011340 | 14   | 2.00  | 1.50  | .70   | .500  | 100  | N    | N    | 100 | 700   | 3.0  | 7    | 70   | 15   | 100  | N    |
| 10011350 | 14   | 5.00  | 1.50  | .70   | .500  | 70   | N    | N    | 150 | 700   | 3.0  | 7    | 100  | 50   | 100  | 10   |
| 10011360 | 14   | 2.00  | 1.00  | .20   | .300  | 50   | N    | N    | 100 | 700   | 1.5  | 7    | 70   | 15   | 100  | N    |
| 10011370 | 14   | 2.00  | 1.00  | 1.00  | .200  | 70   | N    | N    | 150 | 700   | 2.0  | 5    | 70   | 15   | 70   | N    |
| 10011380 | 14   | 2.00  | 1.00  | 1.50  | .300  | 50   | N    | N    | 150 | 700   | 2.0  | 5    | 70   | 7    | 70   | N    |
| 10011390 | 14   | 2.00  | 1.00  | 1.00  | .300  | 70   | N    | N    | 150 | 700   | 2.0  | 10   | 70   | 15   | 70   | N    |
| 10011400 | 14   | 2.00  | .70   | 1.50  | .300  | 50   | N    | N    | 150 | 700   | 1.5  | 7    | 70   | 20   | 70   | N    |
| 10011410 | 14   | 2.00  | 1.00  | 1.00  | .300  | 70   | N    | N    | 150 | 500   | 2.0  | 7    | 70   | 20   | 70   | N    |
| 10011420 | 14   | 2.00  | 1.00  | 2.00  | .300  | 70   | N    | N    | 150 | 700   | 1.5  | 10   | 50   | 10   | 70   | N    |
| 10011430 | 14   | 2.00  | 1.50  | 1.50  | .300  | 70   | N    | N    | 150 | 700   | 2.0  | 10   | 50   | 10   | 70   | N    |
| 10011440 | 14   | 2.00  | .70   | .70   | .300  | 70   | N    | N    | 150 | 500   | 1.5  | 5    | 50   | 20   | 70   | N    |
| 10011450 | 14   | 2.00  | .70   | .50   | .300  | 70   | N    | N    | 150 | 500   | 1.5  | 5    | 30   | 7    | 70   | N    |
| 10011460 | 14   | 5.00  | 1.00  | .10   | .200  | 30   | N    | N    | 150 | 500   | 5.0  | 20   | 15   | 20   | 30   | N    |
| 10011470 | 14   | 3.00  | .70   | .30   | .200  | 70   | N    | N    | 100 | 500   | 3.0  | 5    | 15   | 7    | 50   | N    |
| 10011480 | 14   | 3.00  | .70   | .07   | .200  | 50   | N    | N    | 150 | 300   | 5.0  | 5    | 20   | 7    | 50   | N    |
| 10011490 | 13   | .50   | .10   | .05   | .150  | 15   | N    | N    | 50  | 200   | N    | N    | <10  | <5   | 20   | N    |
| 10011500 | 13   | .70   | .15   | .07   | .150  | 20   | N    | N    | 50  | 300   | N    | N    | 15   | 5    | 20   | N    |
| 10011510 | 13   | 2.00  | .70   | .20   | .300  | 70   | N    | N    | 100 | 500   | 1.5  | 10   | 50   | 10   | 70   | N    |
| 10011520 | 13   | 5.00  | 1.00  | .15   | .200  | 70   | N    | N    | 70  | 300   | 3.0  | 10   | 30   | 10   | 70   | N    |
| 10011530 | 13   | 7.00  | .70   | .10   | .150  | 50   | N    | N    | 70  | 200   | 5.0  | 10   | 15   | 5    | 20   | N    |
| 10011540 | 13   | 5.00  | 1.50  | .30   | .200  | 100  | N    | N    | 100 | 300   | 5.0  | 15   | 50   | 15   | 50   | N    |
| 10011550 | 13   | 3.00  | 1.00  | .30   | .200  | 70   | N    | N    | 100 | 500   | 2.0  | 10   | 50   | 7    | 70   | N    |
| 10011560 | 13   | 2.00  | .50   | .30   | .200  | 70   | N    | N    | 50  | 1,000 | 1.5  | 5    | 10   | 15   | 30   | N    |
| 10011570 | 13   | 2.00  | 1.00  | 1.50  | .150  | 150  | N    | N    | 50  | 1,000 | 2.0  | 5    | 15   | 7    | 20   | N    |
| 10011580 | 13   | 3.00  | .50   | .10   | .150  | 30   | N    | N    | 50  | 1,000 | 2.0  | 5    | 15   | 20   | 20   | 5    |
| 10011590 | 13   | 2.00  | 1.00  | 1.00  | .200  | 100  | N    | N    | 70  | 1,000 | 2.0  | 7    | 15   | 7    | 50   | N    |
| 10011600 | 13   | 5.00  | .70   | .20   | .200  | 50   | N    | N    | 100 | 700   | 5.0  | 20   | 15   | 10   | 30   | N    |
| 10011610 | 13   | 5.00  | 1.00  | .70   | .200  | 100  | N    | N    | 100 | 700   | 5.0  | 10   | 15   | <5   | 20   | N    |
| 10011620 | 13   | 3.00  | .70   | .50   | .200  | 100  | N    | N    | 100 | 500   | 7.0  | 7    | 10   | 5    | 30   | N    |
| 10011630 | 13   | 2.00  | .70   | .30   | .200  | 100  | N    | N    | 70  | 500   | 3.0  | 5    | 10   | <5   | 20   | N    |
| 10011640 | 13   | 1.00  | .20   | .10   | .150  | 50   | N    | N    | 70  | 300   | 2.0  | N    | 10   | <5   | 20   | N    |
| 10011650 | 13   | 1.50  | .70   | .20   | .070  | 70   | N    | N    | 50  | 100   | 2.0  | N    | N    | <5   | N    | N    |
| 10011660 | 13   | 1.00  | .20   | .15   | .100  | 100  | N    | N    | 50  | 300   | 2.0  | N    | N    | 5    | 20   | N    |
| 10011670 | 13   | 2.00  | .50   | .20   | .150  | 150  | N    | N    | 70  | 300   | 3.0  | 5    | 10   | 10   | 20   | N    |

Sample S-NB S-NI S-PB S-SC S-SR S-V S-Y S-ZR AA-ZN

|          |     |    |     |    |      |     |    |      |    |
|----------|-----|----|-----|----|------|-----|----|------|----|
| 10011340 | <20 | 15 | 20  | 7  | 150  | 100 | 30 | 300  | 5  |
| 10011350 | <20 | 20 | 50  | 7  | 100  | 150 | 20 | 200  | 10 |
| 10011360 | <20 | 15 | 20  | 5  | 100  | 100 | 20 | 150  | 5  |
| 10011370 | N   | 15 | 20  | 5  | 100  | 70  | 20 | 100  | 5  |
| 10011380 | <20 | 15 | 15  | 7  | 150  | 100 | 20 | 200  | 5  |
| 10011390 | <20 | 20 | 20  | 5  | 150  | 100 | 20 | 150  | 10 |
| 10011400 | <20 | 15 | 15  | 7  | 150  | 100 | 30 | 150  | 5  |
| 10011410 | <20 | 15 | 15  | 10 | 150  | 100 | 30 | 150  | 5  |
| 10011420 | N   | 15 | 20  | 7  | 150  | 100 | 30 | 150  | 5  |
| 10011430 | <20 | 15 | 15  | 7  | 150  | 100 | 30 | 150  | 5  |
| 10011440 | N   | 7  | 15  | 7  | 150  | 70  | 30 | 150  | 10 |
| 10011450 | <20 | 5  | 15  | 5  | 150  | 70  | 30 | 200  | 20 |
| 10011460 | N   | 15 | 20  | <5 | <100 | 30  | 20 | 200  | <5 |
| 10011470 | N   | N  | 10  | N  | <100 | 20  | 20 | 300  | <5 |
| 10011480 | N   | 5  | 10  | 5  | <100 | 30  | 20 | 300  | <5 |
| 10011490 | N   | N  | N   | N  | N    | <10 | 20 | 1000 | <5 |
| 10011500 | N   | N  | <10 | N  | <100 | 20  | 20 | 700  | <5 |
| 10011510 | N   | 10 | 15  | 7  | <100 | 70  | 30 | 300  | 5  |
| 10011520 | N   | 15 | 10  | <5 | <100 | 30  | 20 | 100  | 5  |
| 10011530 | N   | 7  | <10 | N  | N    | 20  | 10 | 100  | <5 |
| 10011540 | N   | 15 | 15  | 5  | N    | 50  | 20 | 300  | <5 |
| 10011550 | N   | 7  | 15  | 5  | <100 | 70  | 30 | 300  | <5 |
| 10011560 | N   | 5  | 20  | N  | <100 | 15  | 30 | 300  | <5 |
| 10011570 | N   | N  | 20  | N  | <100 | 20  | 30 | 500  | <5 |
| 10011580 | N   | N  | 20  | N  | <100 | 20  | 20 | 300  | <5 |
| 10011590 | N   | N  | 20  | <5 | 100  | 30  | 30 | 500  | <5 |
| 10011600 | N   | 7  | 20  | N  | <100 | 30  | 30 | 500  | <5 |
| 10011610 | N   | N  | 10  | <5 | <100 | 30  | 20 | 500  | <5 |
| 10011620 | N   | N  | <10 | <5 | <100 | 20  | 20 | 500  | <5 |
| 10011630 | N   | N  | <10 | N  | <100 | 20  | 20 | 500  | <5 |
| 10011640 | N   | N  | N   | N  | <100 | 20  | 15 | 200  | <5 |
| 10011650 | N   | N  | N   | N  | N    | 10  | 10 | 300  | <5 |
| 10011660 | N   | N  | N   | N  | N    | 10  | 15 | 500  | <5 |
| 10011670 | N   | 5  | 10  | N  | <100 | 20  | 15 | 300  | <5 |

TABLE 7.--Spectrographic analyses of insoluble-residue samples from drill hole no. 101.

| Sample   | FORM | S-FE%  | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS  | S-B | S-BA | S-BE | S-CD. | S-CO | S-CR | S-CU | S-LA |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|------|------|-------|------|------|------|------|
| 10110570 | 19   | .10    | .05   | .10   | .007  | 30   | N    | N     | 50  | 100  | N    | N     | N    | N    | 5    | N    |
| 10110580 | 19   | .30    | .05   | .35   | .005  | <10  | N    | N     | 50  | 70   | N    | N     | N    | N    | 10   | N    |
| 10110590 | 19   | .50    | .15   | .10   | .050  | 10   | N    | N     | 50  | 70   | N    | N     | N    | 10   | 15   | N    |
| 10110600 | 19   | .10    | .05   | .35   | .002  | <10  | N    | N     | 50  | 50   | N    | N     | N    | N    | 7    | N    |
| 10110610 | 19   | .20    | .05   | .35   | .005  | N    | N    | N     | 30  | 50   | N    | N     | N    | N    | 7    | N    |
| 10110620 | 19   | .70    | .10   | .10   | .050  | N    | .5   | N     | 50  | 70   | N    | N     | N    | <10  | 15   | N    |
| 10110630 | 19   | .30    | .10   | .10   | .030  | N    | N    | N     | 50  | 50   | N    | N     | N    | N    | 7    | N    |
| 10110640 | 19   | .07    | .05   | .37   | .005  | N    | N    | N     | 30  | 30   | N    | N     | N    | N    | <5   | N    |
| 10110650 | 19   | .07    | .07   | .37   | .005  | N    | N    | N     | 50  | 30   | N    | N     | N    | N    | 5    | N    |
| 10110660 | 19   | <.05   | .05   | .37   | .002  | N    | N    | N     | 50  | 30   | N    | N     | N    | N    | 5    | N    |
| 10110670 | 19   | 1.00   | .10   | .37   | .010  | 30   | N    | N     | 50  | 100  | N    | <20   | 5    | N    | 20   | N    |
| 10110680 | 19   | 5.00   | .70   | .37   | .200  | 50   | .5   | N     | 70  | 300  | 1.0  | N     | 15   | 100  | 100  | N    |
| 10110690 | 19   | .30    | .10   | .37   | .020  | <10  | N    | N     | 30  | 50   | N    | N     | N    | N    | 7    | N    |
| 10110700 | 19   | .30    | .07   | .37   | .030  | N    | N    | N     | 50  | 70   | N    | N     | N    | N    | 10   | N    |
| 10110710 | 19   | 1.00   | .15   | .20   | .005  | N    | N    | N     | 30  | 30   | N    | N     | N    | N    | 20   | N    |
| 10110720 | 19   | .70    | .07   | .10   | .003  | N    | N    | N     | 30  | 70   | N    | N     | N    | N    | 20   | N    |
| 10110730 | 19   | 7.00   | .30   | .37   | .100  | 20   | 1.0  | 1.000 | 100 | 100  | 1.5  | 200   | 10   | 20   | 300  | N    |
| 10110740 | 19   | 3.00   | .50   | .37   | .070  | 20   | <.5  | N     | 70  | 30   | 1.0  | N     | N    | 15   | 50   | N    |
| 10110750 | 18   | .20    | .05   | .35   | .005  | N    | N    | N     | 20  | N    | <1.0 | N     | N    | N    | 10   | N    |
| 10110760 | 18   | .10    | .03   | <.35  | .005  | N    | N    | N     | 15  | 20   | N    | N     | N    | N    | 5    | N    |
| 10110770 | 18   | .05    | .02   | <.35  | .005  | N    | N    | N     | 15  | N    | N    | N     | N    | N    | <5   | N    |
| 10110780 | 18   | <.05   | .02   | <.35  | .003  | N    | N    | N     | 10  | N    | N    | N     | N    | N    | <5   | N    |
| 10110790 | 18   | .15    | .03   | <.35  | .003  | N    | N    | N     | 15  | N    | N    | N     | N    | N    | <5   | N    |
| 10110800 | 17   | .20    | .05   | .37   | .003  | 20   | 1.0  | N     | 20  | 20   | N    | N     | N    | N    | 15   | N    |
| 10110810 | 17   | .70    | .05   | <.35  | .007  | N    | N    | N     | 15  | N    | <1.0 | N     | N    | N    | 10   | N    |
| 10110820 | 17   | 3.00   | .50   | .10   | .020  | 15   | N    | N     | 70  | 70   | 2.0  | N     | 5    | 10   | 100  | N    |
| 10110830 | 17   | .20    | .10   | .37   | .003  | N    | N    | N     | 30  | 100  | <1.0 | N     | N    | N    | 10   | N    |
| 10110840 | 17   | 2.00   | .15   | .10   | .030  | 10   | 1.5  | N     | 50  | 50   | <1.0 | N     | 5    | <10  | 50   | N    |
| 10110850 | 17   | 5.00   | .50   | .10   | .050  | 30   | 2.0  | N     | 30  | 500  | N    | N     | 10   | 10   | 700  | N    |
| 10110860 | 17   | 1.50   | .05   | .35   | .003  | 20   | 1.0  | N     | 30  | 100  | N    | N     | 5    | N    | 50   | N    |
| 10110870 | 17   | 2.00   | .50   | .20   | .100  | 20   | .5   | N     | 50  | 100  | 1.0  | 30    | 10   | 15   | 50   | N    |
| 10110910 | 17   | 20.00  | .50   | .20   | .100  | 70   | 7.0  | 1.500 | 50  | 30   | 1.0  | N     | 50   | 20   | 300  | N    |
| 10110920 | 17   | 7.00   | .30   | .10   | .100  | 20   | 1.5  | 200   | 30  | 500  | 1.0  | N     | 15   | 15   | 150  | N    |
| 10110940 | 17   | >20.00 | .70   | .70   | .100  | 500  | 7.0  | N     | 50  | 100  | N    | 300   | 50   | 200  | 200  | N    |
| 10110960 | 17   | 2.00   | .15   | .15   | .020  | 10   | 1.0  | N     | 20  | N    | N    | N     | N    | <10  | 70   | N    |
| 10110970 | 17   | 3.00   | .50   | .20   | .100  | 10   | 1.5  | 200   | 50  | 50   | <1.0 | N     | 7    | 20   | 50   | N    |
| 10110980 | 17   | 3.00   | .20   | .10   | .050  | <10  | 1.5  | 300   | 30  | 20   | N    | N     | 5    | <10  | 150  | N    |
| 10110990 | 17   | 2.00   | .50   | .15   | .150  | 20   | .7   | N     | 50  | 700  | 1.0  | N     | 7    | 20   | 50   | 20   |
| 10111000 | 17   | 5.00   | .50   | .10   | .200  | 20   | 2.0  | N     | 50  | 300  | 1.5  | N     | 10   | 20   | 100  | 70   |
| 10111010 | 17   | 10.00  | .70   | .10   | .200  | 50   | 2.0  | 200   | 70  | 150  | 2.0  | N     | 15   | 50   | 150  | N    |
| 10111020 | 17   | 3.00   | .30   | .10   | .070  | 10   | 1.0  | N     | 30  | 30   | N    | N     | 5    | 10   | 70   | N    |
| 10111030 | 17   | 5.00   | .50   | .30   | .150  | 20   | 1.0  | 500   | 70  | 100  | 1.0  | N     | 15   | 50   | 150  | N    |
| 10111040 | 17   | .70    | .07   | .10   | .002  | 20   | N    | N     | 30  | N    | N    | N     | 7    | N    | 200  | N    |
| 10111050 | 17   | 1.00   | .10   | .15   | .002  | N    | <.5  | N     | 50  | N    | N    | N     | 7    | 15   | 70   | N    |
| 10111060 | 17   | .70    | .10   | .15   | .005  | N    | N    | N     | 50  | 30   | N    | N     | N    | N    | 15   | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN    | S-ZR | AA-ZV |
|----------|------|------|------|------|------|------|------|-----|-----|---------|------|-------|
| 10110570 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | N    | 10    |
| 10110580 | 7    | N    | 5    | N    | N    | N    | N    | N   | N   | N       | N    | 15    |
| 10110590 | 10   | N    | 7    | N    | N    | N    | N    | 30  | N   | N       | 15   | 10    |
| 10110600 | N    | N    | N    | N    | N    | 10   | N    | N   | N   | N       | N    | 150   |
| 10110610 | N    | N    | <5   | N    | N    | N    | N    | N   | N   | N       | N    | 10    |
| 10110620 | 20   | N    | 15   | 15   | N    | N    | N    | 15  | N   | <200    | 10   | 120   |
| 10110630 | 10   | N    | 5    | N    | N    | N    | N    | 15  | N   | N       | 10   | 10    |
| 10110640 | 5    | N    | N    | N    | N    | N    | N    | N   | N   | N       | N    | 10    |
| 10110650 | 5    | N    | <5   | N    | N    | N    | N    | N   | N   | N       | N    | <5    |
| 10110660 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | N    | <5    |
| 10110670 | 10   | N    | 20   | 50   | N    | N    | N    | N   | N   | 3,000   | N    | 1,900 |
| 10110680 | 100  | N    | 50   | 70   | <5   | N    | N    | 100 | N   | N       | 70   | 20    |
| 10110690 | <5   | N    | 5    | N    | N    | N    | N    | N   | N   | N       | N    | 85    |
| 10110700 | <5   | N    | 5    | N    | N    | N    | N    | N   | N   | N       | 20   | <5    |
| 10110710 | <5   | N    | 7    | 20   | N    | N    | N    | N   | N   | 500     | N    | 210   |
| 10110720 | N    | N    | 5    | 15   | N    | N    | N    | N   | N   | 200     | N    | 200   |
| 10110730 | 20   | N    | 50   | 200  | N    | N    | N    | 30  | N   | >10,000 | 50   | --    |
| 10110740 | 5    | N    | 10   | 100  | N    | N    | N    | 20  | N   | 1,000   | 30   | --    |
| 10110750 | N    | N    | N    | <10  | N    | N    | N    | N   | N   | N       | 10   | N     |
| 10110760 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | 50   | <5    |
| 10110770 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | 30   | N     |
| 10110780 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | 20   | 50    |
| 10110790 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | 20   | N     |
| 10110800 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | N    | <5    |
| 10110810 | N    | N    | N    | <10  | N    | N    | N    | N   | N   | 200     | 100  | 230   |
| 10110820 | N    | N    | 15   | 70   | N    | N    | N    | 50  | N   | 1,500   | 10   | --    |
| 10110830 | N    | N    | N    | N    | N    | N    | N    | N   | N   | N       | N    | 55    |
| 10110840 | N    | N    | 15   | 70   | N    | N    | N    | 15  | N   | <200    | 10   | --    |
| 10110850 | 5    | N    | 50   | 200  | N    | N    | N    | 30  | N   | 1,500   | 30   | --    |
| 10110860 | N    | N    | 10   | 20   | N    | N    | N    | N   | N   | 500     | N    | --    |
| 10110870 | 50   | N    | 20   | 30   | N    | N    | N    | 50  | N   | 5,000   | 50   | 3,600 |
| 10110910 | 30   | N    | 150  | 500  | N    | N    | N    | 50  | N   | N       | 30   | --    |
| 10110920 | 30   | N    | 50   | 150  | N    | N    | N    | 30  | 10  | N       | 150  | --    |
| 10110940 | 20   | N    | 100  | 700  | N    | 70   | N    | 30  | N   | >10,000 | 50   | --    |
| 10110960 | N    | N    | 15   | 50   | N    | 50   | N    | N   | N   | N       | 20   | --    |
| 10110970 | 20   | N    | 20   | 200  | N    | N    | N    | 70  | N   | N       | 30   | --    |
| 10110980 | 5    | N    | 20   | 100  | N    | N    | N    | 15  | N   | N       | 10   | --    |
| 10110990 | N    | N    | 20   | 70   | N    | N    | <100 | 30  | 15  | N       | 300  | 80    |
| 10111000 | 10   | N    | 30   | 100  | N    | N    | <100 | 50  | 10  | N       | 100  | --    |
| 10111010 | 20   | N    | 50   | 200  | <5   | N    | N    | 100 | N   | N       | 50   | --    |
| 10111020 | 5    | N    | 20   | 70   | N    | N    | N    | 30  | N   | N       | 15   | --    |
| 10111030 | 20   | N    | 30   | 100  | N    | N    | N    | 70  | N   | N       | 20   | --    |
| 10111040 | N    | N    | 10   | <10  | N    | N    | N    | N   | N   | N       | N    | --    |
| 10111050 | 10   | N    | 20   | 20   | N    | N    | N    | 50  | N   | N       | N    | --    |
| 10111060 | 7    | N    | 5    | 15   | N    | N    | N    | N   | N   | N       | N    | 15    |



| Sample   | FORM | S-FL% | S-MG% | S-CA% | S-TIX | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 10111070 | 17   | 1.00  | .10   | .07   | .050  | N    | N    | N    | 30  | 70   | N    | N    | N    | N    | 20   | N    |
| 10111080 | 17   | 2.00  | .07   | .05   | .005  | N    | <.5  | N    | 50  | N    | N    | N    | 10   | 15   | 70   | N    |
| 10111090 | 17   | 1.00  | .10   | .15   | .002  | N    | N    | N    | 20  | N    | N    | N    | N    | N    | 20   | 20   |
| 10111100 | 17   | 1.00  | .20   | .20   | .002  | N    | N    | N    | 20  | N    | N    | N    | N    | N    | 20   | N    |
| 10111110 | 17   | .20   | .07   | .05   | .003  | N    | N    | N    | 20  | N    | N    | N    | N    | N    | 5    | N    |
| 10111120 | 17   | .50   | .05   | .05   | .010  | <10  | N    | N    | 50  | N    | N    | N    | N    | 10   | 15   | N    |
| 10111130 | 17   | .30   | .70   | 1.00  | .005  | <10  | N    | N    | 50  | 20   | N    | N    | N    | N    | 10   | N    |
| 10111140 | 17   | .30   | .10   | .10   | .005  | N    | N    | N    | 30  | N    | N    | N    | N    | N    | 10   | N    |
| 10111150 | 17   | 2.00  | .10   | .10   | .007  | N    | .5   | 700  | 20  | N    | N    | N    | 10   | 10   | 30   | N    |
| 10111160 | 17   | 5.00  | .70   | .50   | .200  | 50   | 1.0  | 300  | 50  | 500  | 2.0  | N    | 20   | 30   | 200  | 150  |
| 10111170 | 17   | 3.00  | .15   | .10   | .020  | <10  | .5   | N    | 30  | 20   | N    | N    | 10   | N    | 50   | N    |
| 10111180 | 17   | 1.00  | .10   | .10   | .005  | N    | N    | N    | 30  | 500  | N    | <20  | N    | N    | 20   | N    |
| 10111190 | 17   | 2.00  | .05   | .05   | <.002 | N    | .7   | N    | 50  | N    | N    | N    | 7    | N    | 30   | N    |
| 10111200 | 17   | 3.00  | .50   | .10   | .150  | 15   | 1.5  | N    | 100 | 150  | 2.0  | N    | 7    | 30   | 100  | N    |
| 10111210 | 16   | 1.50  | .10   | .15   | .010  | N    | N    | N    | 50  | 20   | N    | N    | 5    | N    | 20   | N    |
| 10111220 | 16   | 3.00  | .10   | .15   | .003  | N    | <.5  | N    | 30  | N    | N    | N    | 5    | N    | 50   | N    |
| 10111230 | 16   | 3.00  | .07   | .10   | .002  | N    | N    | N    | 30  | N    | N    | N    | N    | N    | 30   | N    |
| 10111240 | 16   | 3.00  | .02   | <.05  | <.002 | N    | N    | N    | 50  | N    | N    | N    | N    | N    | 15   | N    |
| 10111250 | 16   | 20.00 | .10   | .07   | .030  | 10   | 2.0  | N    | 20  | 70   | N    | N    | 15   | N    | 100  | N    |
| 10111260 | 16   | 5.00  | .15   | .05   | .020  | 10   | .5   | N    | 30  | 20   | N    | N    | 10   | N    | 50   | N    |
| 10111270 | 16   | 2.00  | .02   | .05   | <.002 | N    | N    | N    | 50  | N    | N    | N    | N    | N    | 10   | N    |
| 10111280 | 16   | 2.00  | .10   | .10   | .003  | N    | N    | N    | 20  | N    | N    | N    | 5    | N    | 30   | N    |
| 10111290 | 16   | 2.00  | .15   | .20   | .002  | N    | N    | N    | 20  | N    | N    | N    | <5   | N    | 20   | N    |
| 10111300 | 16   | 10.00 | .15   | .10   | .003  | N    | <.5  | N    | 20  | 30   | N    | N    | <5   | N    | 30   | N    |
| 10111310 | 16   | 5.00  | .30   | .50   | <.002 | N    | N    | N    | 30  | N    | N    | N    | <5   | N    | 20   | N    |
| 10111320 | 16   | 20.00 | .15   | .07   | .050  | N    | 1.5  | N    | 30  | 70   | N    | N    | 10   | <10  | 100  | N    |
| 10111330 | 16   | 20.00 | .15   | .10   | .020  | N    | .5   | N    | 30  | 70   | N    | N    | 7    | N    | 50   | N    |
| 10111340 | 16   | 10.00 | .50   | .50   | .010  | <10  | N    | N    | 30  | N    | N    | N    | N    | N    | 15   | N    |
| 10111350 | 15   | 5.00  | .20   | .20   | .100  | 10   | N    | N    | 20  | 150  | N    | N    | <5   | <10  | 50   | N    |
| 10111360 | 15   | 20.00 | .10   | .10   | .100  | <10  | .5   | N    | N   | 50   | N    | N    | 7    | 10   | 50   | 30   |
| 10111370 | 15   | 10.00 | 1.50  | 2.00  | .150  | 50   | <.5  | N    | 30  | 300  | 1.5  | N    | 10   | 20   | 30   | 100  |
| 10111380 | 15   | 7.00  | 2.00  | 1.50  | .200  | 70   | .7   | N    | 50  | 700  | 1.5  | N    | 15   | 70   | 100  | 100  |
| 10111390 | 15   | 2.00  | .70   | .20   | .200  | 20   | N    | N    | 50  | 300  | 2.0  | N    | 7    | 30   | 20   | 70   |
| 10111400 | 15   | 2.00  | 1.50  | 1.00  | .200  | 50   | <.5  | N    | 70  | 700  | 2.0  | N    | 10   | 70   | 20   | 100  |
| 10111410 | 15   | 5.00  | 1.00  | .50   | .200  | 50   | .5   | N    | 50  | 700  | 2.0  | N    | 15   | 50   | 70   | 150  |
| 10111420 | 15   | 5.00  | 1.00  | .30   | .300  | 50   | 1.0  | N    | 100 | 500  | 2.0  | N    | 20   | 70   | 100  | 150  |
| 10111430 | 15   | 15.00 | 2.00  | 2.00  | .100  | 50   | N    | N    | 50  | 200  | 1.5  | N    | 20   | 20   | 70   | 50   |
| 10111440 | 15   | 10.00 | 1.00  | .30   | .200  | 50   | .7   | N    | 70  | 500  | 1.5  | N    | 15   | 100  | 100  | 50   |
| 10111450 | 15   | 3.00  | .70   | .30   | .200  | 50   | <.5  | N    | 50  | 700  | 1.5  | N    | 7    | 50   | 50   | 100  |
| 10111460 | 15   | 2.00  | 2.00  | 2.00  | .150  | 50   | <.5  | N    | 100 | 300  | 1.5  | N    | 7    | 50   | 30   | 50   |
| 10111470 | 15   | 5.00  | 1.50  | 1.00  | .300  | 50   | <.5  | N    | 100 | 500  | 2.0  | N    | 10   | 100  | 100  | 100  |
| 10111480 | 15   | 5.00  | 1.00  | .50   | .200  | 50   | <.5  | N    | 100 | 500  | 2.0  | N    | 10   | 70   | 50   | 100  |
| 10111490 | 15   | 5.00  | 1.50  | 1.00  | .150  | 100  | N    | N    | 100 | 700  | 3.0  | N    | 10   | 20   | 10   | 50   |
| 10111500 | 15   | 3.00  | 1.00  | .50   | .300  | 70   | N    | N    | 150 | 500  | 2.0  | N    | 10   | 70   | 20   | 70   |
| 10111510 | 14   | 5.00  | 1.50  | 1.00  | .200  | 100  | N    | N    | 150 | 500  | 2.0  | N    | 20   | 50   | 30   | 70   |

| Sample   | S-MO | S-NB | S-NT | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 10111070 | 10   | N    | 10   | 20   | N    | N    | N    | 10  | N   | N    | 10   | --    |
| 10111080 | 100  | N    | 30   | 15   | N    | N    | N    | 30  | N   | N    | N    | 20    |
| 10111090 | 7    | N    | 10   | 10   | N    | N    | N    | N   | N   | N    | N    | 20    |
| 10111100 | 5    | N    | 7    | <10  | N    | N    | N    | N   | N   | N    | N    | --    |
| 10111110 | 5    | N    | N    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 10111120 | <5   | N    | N    | N    | N    | N    | N    | 20  | N   | N    | N    | 20    |
| 10111130 | 10   | N    | 7    | N    | N    | N    | N    | N   | N   | N    | N    | <5    |
| 10111140 | N    | N    | N    | N    | N    | N    | N    | 10  | N   | N    | N    | 5     |
| 10111150 | 15   | N    | 30   | 30   | N    | N    | N    | 10  | N   | N    | N    | 10    |
| 10111160 | 100  | N    | 100  | 200  | 5    | N    | 150  | 70  | 15  | N    | 100  | 15    |
| 10111170 | 10   | N    | 30   | 100  | N    | N    | N    | 10  | N   | N    | 10   | --    |
| 10111180 | N    | N    | 10   | 15   | N    | N    | N    | N   | N   | 300  | N    | 60    |
| 10111190 | N    | N    | 20   | 30   | N    | N    | N    | N   | N   | N    | N    | 5     |
| 10111200 | 20   | N    | 20   | 100  | N    | N    | N    | 100 | N   | N    | 70   | <5    |
| 10111210 | N    | N    | 20   | 50   | N    | N    | N    | N   | N   | N    | 10   | 5     |
| 10111220 | 5    | N    | 20   | 70   | N    | N    | N    | N   | N   | N    | 10   | --    |
| 10111230 | N    | N    | 15   | 15   | N    | N    | N    | N   | N   | N    | N    | --    |
| 10111240 | N    | N    | 5    | 15   | N    | N    | N    | N   | N   | N    | N    | 5     |
| 10111250 | 10   | N    | 50   | 150  | N    | N    | N    | N   | N   | N    | 20   | --    |
| 10111260 | <5   | N    | 50   | 70   | N    | N    | N    | N   | N   | N    | 10   | 10    |
| 10111270 | N    | N    | 7    | 15   | N    | N    | N    | N   | N   | N    | N    | 10    |
| 10111280 | N    | N    | 15   | 15   | N    | N    | N    | N   | N   | N    | N    | 10    |
| 10111290 | N    | N    | 10   | 15   | N    | N    | N    | N   | N   | N    | N    | 5     |
| 10111300 | N    | N    | 15   | 30   | N    | N    | N    | N   | N   | N    | N    | 10    |
| 10111310 | N    | N    | 10   | 30   | N    | N    | N    | N   | N   | N    | N    | <5    |
| 10111320 | 10   | N    | 50   | 150  | N    | N    | N    | N   | N   | N    | 30   | 10    |
| 10111330 | <5   | N    | 20   | 100  | N    | N    | N    | N   | N   | N    | 30   | 10    |
| 10111340 | <5   | N    | 10   | 50   | N    | N    | N    | N   | N   | N    | 20   | 10    |
| 10111350 | 7    | N    | 10   | 20   | N    | N    | N    | N   | N   | N    | 100  | 10    |
| 10111360 | 10   | N    | 20   | 100  | N    | 300  | N    | N   | N   | N    | 50   | 10    |
| 10111370 | 10   | N    | 30   | 150  | N    | N    | 150  | 50  | 15  | N    | 100  | 55    |
| 10111380 | 7    | N    | 50   | 150  | 5    | N    | 150  | 70  | 20  | N    | 100  | 15    |
| 10111390 | 7    | N    | 30   | 20   | <5   | N    | 100  | 50  | 10  | N    | 100  | 10    |
| 10111400 | 7    | N    | 30   | 50   | 7    | N    | 150  | 100 | 20  | N    | 200  | 10    |
| 10111410 | 15   | N    | 70   | 100  | 5    | N    | 200  | 70  | 20  | N    | 200  | <5    |
| 10111420 | 15   | <20  | 70   | 200  | 7    | N    | 150  | 100 | 20  | N    | 200  | <5    |
| 10111430 | 7    | N    | 50   | 200  | <5   | N    | <100 | 50  | 10  | N    | 70   | N     |
| 10111440 | 10   | N    | 70   | 150  | <5   | N    | <100 | 70  | 15  | N    | 200  | N     |
| 10111450 | 5    | N    | 20   | 70   | 11   | N    | 150  | 70  | 20  | N    | 150  | <5    |
| 10111460 | 5    | N    | 20   | 50   | 5    | N    | 100  | 70  | 10  | N    | 100  | <5    |
| 10111470 | 10   | N    | 50   | 70   | 7    | N    | 150  | 100 | 20  | N    | 150  | N     |
| 10111480 | 10   | N    | 30   | 50   | 5    | N    | <100 | 70  | 15  | N    | 150  | <5    |
| 10111490 | N    | N    | 7    | 15   | 5    | N    | <100 | 50  | 20  | N    | 300  | N     |
| 10111500 | 7    | N    | 20   | 70   | 5    | N    | 100  | 70  | 20  | N    | 100  | <5    |
| 10111510 | 10   | N    | 30   | 150  | 5    | N    | <100 | 70  | 20  | N    | 100  | <5    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 10111520 | 14   | 3.00  | 1.50  | 1.00  | .200  | 70   | N    | N    | 100 | 700   | 1.5  | N    | 7    | 50   | 15   | 70   |
| 10111530 | 14   | 2.00  | .50   | .20   | .150  | 50   | N    | N    | 70  | 300   | 1.5  | N    | 5    | 20   | 10   | 50   |
| 10111540 | 14   | 2.00  | 2.00  | 1.50  | .300  | 100  | N    | N    | 100 | 700   | 1.5  | N    | 10   | 50   | 15   | 70   |
| 10111550 | 14   | 1.50  | .70   | .15   | .200  | 30   | N    | N    | 70  | 700   | 1.5  | N    | <5   | 20   | 10   | 70   |
| 10111560 | 14   | 1.50  | .70   | .15   | .150  | 50   | N    | N    | 70  | 700   | 1.5  | N    | 5    | 20   | 7    | 50   |
| 10111570 | 13   | 2.00  | 1.00  | .50   | .200  | 70   | N    | N    | 100 | 500   | 1.0  | N    | 10   | 70   | 20   | 70   |
| 10111580 | 13   | 7.00  | 1.00  | .10   | .070  | 70   | N    | N    | 150 | 100   | 7.0  | N    | 20   | 20   | 15   | 30   |
| 10111590 | 13   | 3.00  | .70   | .10   | .150  | 50   | N    | N    | 100 | 300   | 3.0  | N    | 15   | 50   | 20   | 30   |
| 10111600 | 13   | 2.00  | .70   | .07   | .150  | 50   | N    | N    | 70  | 200   | 2.0  | N    | 15   | 30   | 20   | 70   |
| 10111610 | 13   | 2.00  | .70   | .50   | .100  | 70   | N    | N    | 50  | 500   | 1.5  | N    | 5    | 15   | 5    | 30   |
| 10111620 | 13   | 2.00  | 1.00  | .70   | .150  | 100  | N    | N    | 70  | 700   | 1.5  | N    | 5    | 30   | 5    | 70   |
| 10111630 | 13   | 3.00  | 1.00  | .50   | .200  | 100  | N    | N    | 50  | 700   | 2.0  | N    | 10   | 20   | 15   | 100  |
| 10111640 | 13   | 5.00  | .20   | .05   | .150  | 15   | N    | N    | 50  | 700   | 1.5  | N    | 15   | 10   | 20   | 50   |
| 10111650 | 13   | 3.00  | .20   | .07   | .150  | 20   | N    | N    | 50  | 1,000 | 1.5  | N    | 7    | 10   | 15   | 70   |
| 10111660 | 13   | 3.00  | .70   | .05   | .150  | 15   | N    | N    | 70  | 700   | 5.0  | N    | 10   | 10   | 10   | 50   |
| 10111670 | 13   | 3.00  | .70   | .07   | .150  | 20   | N    | N    | 70  | 700   | 5.0  | N    | 15   | 15   | 10   | 50   |
| 10111680 | 13   | 3.00  | .50   | .10   | .100  | 20   | N    | N    | 50  | 500   | 3.0  | N    | 10   | <10  | 7    | N    |
| 10111690 | 13   | 3.00  | 1.00  | .70   | .150  | 70   | N    | N    | 100 | 500   | 5.0  | N    | 10   | 20   | 7    | 50   |
| 10111700 | 13   | 3.00  | 1.00  | .70   | .200  | 100  | N    | N    | 100 | 500   | 2.0  | N    | 10   | 20   | 5    | 50   |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 10111520 | 7    | N    | 15   | 50   | 5    | N    | 100  | 70  | 20  | N    | 100  | N     |
| 10111530 | N    | N    | 10   | 20   | <5   | N    | <100 | 50  | 20  | N    | 300  | N     |
| 10111540 | 10   | N    | 15   | 20   | 7    | N    | 100  | 70  | 20  | N    | 150  | 10    |
| 10111550 | N    | N    | 7    | 30   | <5   | N    | 100  | 50  | 20  | N    | 300  | <5    |
| 10111560 | N    | N    | 7    | 20   | <5   | N    | 100  | 30  | 20  | N    | 300  | <5    |
| 10111570 | N    | N    | 15   | 15   | 7    | N    | <100 | 50  | 20  | N    | 200  | 5     |
| 10111580 | N    | N    | 20   | 15   | N    | N    | N    | 20  | <10 | N    | 150  | 5     |
| 10111590 | N    | N    | 20   | 10   | N    | N    | N    | 50  | 15  | N    | 200  | <5    |
| 10111600 | N    | N    | 20   | 10   | <5   | N    | N    | 50  | 15  | N    | 150  | 5     |
| 10111610 | N    | N    | 7    | 10   | N    | N    | N    | 30  | 20  | N    | 200  | 10    |
| 10111620 | 5    | N    | 5    | 15   | N    | N    | 100  | 50  | 30  | N    | 300  | 5     |
| 10111630 | 5    | N    | 15   | 30   | N    | N    | 150  | 50  | 30  | N    | 300  | 5     |
| 10111640 | 5    | N    | 20   | 70   | N    | N    | <100 | 20  | 20  | N    | 300  | 5     |
| 10111650 | N    | N    | 10   | 50   | N    | N    | <100 | 20  | 30  | N    | 500  | 5     |
| 10111660 | N    | N    | 7    | 30   | N    | N    | <100 | 20  | 30  | N    | 300  | 15    |
| 10111670 | N    | N    | 7    | 20   | N    | N    | <100 | 30  | 30  | N    | 300  | <5    |
| 10111680 | N    | N    | <5   | 10   | N    | N    | N    | 15  | 20  | N    | 200  | 10    |
| 10111690 | 5    | N    | 5    | 10   | 5    | N    | <100 | 30  | 20  | N    | 300  | 5     |
| 10111700 | N    | N    | 5    | 10   | 5    | N    | 100  | 50  | 30  | N    | 500  | 5     |

TABLE 8.--Spectrographic analyses of insoluble-residue samples from drill hole no. 95.

| Sample   | FORM | S-FE%  | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS  | S-H | S-BA | S-BE | S-CO | S-CR | S-CU  | S-LA | S-MO |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|------|------|------|------|-------|------|------|
| 09510890 | 17   | 5.00   | .10   | .07   | .050  | 100  | 1.5  | N     | 50  | 70   | <1.0 | 5    | 30   | 70    | N    | 10   |
| 09510900 | 17   | 1.50   | .20   | .20   | .050  | 30   | .5   | N     | 50  | 100  | <1.0 | 5    | 20   | 20    | N    | 30   |
| 09510910 | 17   | 5.00   | .15   | .20   | .030  | 70   | .7   | 300   | 30  | 100  | 1.0  | 15   | 20   | 300   | N    | 15   |
| 09510920 | 17   | >20.00 | .30   | .07   | .100  | 50   | 1.0  | 5,000 | 50  | 150  | 2.0  | 10   | 30   | 200   | N    | 100  |
| 09510930 | 17   | 7.00   | .50   | .20   | .200  | 50   | 1.0  | 500   | 70  | 500  | 2.0  | 10   | 30   | 200   | 20   | 20   |
| 09510940 | 17   | 5.00   | .20   | .30   | .007  | 15   | 2.0  | 200   | 30  | 20   | N    | 5    | .15  | 50    | N    | 15   |
| 09510950 | 17   | 10.00  | .20   | .50   | .005  | 50   | 30.0 | 500   | 30  | 30   | N    | 10   | 15   | 1,500 | N    | 15   |
| 09510960 | 17   | 3.00   | .15   | .30   | .010  | 30   | .7   | <200  | 50  | 30   | N    | 20   | 15   | 200   | N    | 7    |
| 09510970 | 17   | 1.50   | .05   | .10   | .007  | 20   | 1.5  | N     | 50  | 20   | N    | 5    | 15   | 30    | N    | 5    |
| 09510980 | 17   | 10.00  | .20   | .30   | .015  | 100  | 2.0  | 700   | 50  | 70   | 2.0  | 15   | 15   | 200   | N    | 30   |
| 09511010 | 17   | 1.50   | .30   | .70   | .010  | 50   | 2.0  | N     | 30  | 20   | <1.0 | N    | 10   | 20    | N    | <5   |
| 09511020 | 17   | 3.00   | 1.50  | .50   | .200  | 70   | 5.0  | N     | 200 | 100  | 3.0  | 7    | 70   | 30    | N    | 7    |
| 09511030 | 17   | 1.00   | .30   | .50   | .030  | 20   | 5.0  | N     | 50  | 20   | <1.0 | N    | 15   | 15    | N    | 7    |
| 09511040 | 17   | 1.00   | .30   | .50   | .070  | 30   | .5   | N     | 50  | 70   | 1.0  | N    | 15   | 5     | N    | N    |
| 09511050 | 17   | 1.50   | .50   | .50   | .100  | 30   | 2.0  | N     | 50  | 150  | 1.0  | N    | 15   | 10    | N    | 5    |
| 09511060 | 17   | 1.00   | .20   | .30   | .030  | 20   | 1.5  | N     | 50  | 70   | <1.0 | N    | 10   | 15    | N    | N    |
| 09511070 | 17   | 7.00   | .30   | .50   | .010  | 70   | 3.0  | 500   | 20  | 20   | 1.5  | 20   | 10   | 200   | N    | 15   |
| 09511080 | 16   | 2.00   | .50   | .20   | .150  | 50   | .5   | N     | 70  | 300  | 1.0  | 7    | 20   | 30    | 30   | 7    |
| 09511090 | 16   | 10.00  | 1.50  | .30   | .300  | 70   | .7   | 300   | 500 | 200  | 3.0  | 15   | 150  | 50    | 30   | 30   |
| 09511100 | 16   | 15.00  | 1.50  | .20   | .200  | 100  | 2.0  | 700   | 500 | 200  | 3.0  | 15   | 150  | 200   | 50   | 30   |
| 09511110 | 16   | 15.00  | 1.30  | .20   | .200  | 70   | 1.5  | 1,500 | 500 | 150  | 3.0  | 20   | 100  | 500   | 20   | 30   |
| 09511120 | 16   | 7.00   | 2.00  | .15   | .300  | 70   | N    | N     | 500 | 100  | 3.0  | 10   | 100  | 30    | 30   | 30   |
| 09511130 | 16   | 7.00   | 2.00  | .15   | .300  | 50   | .7   | N     | 700 | 150  | 2.0  | 15   | 150  | 30    | 100  | 10   |
| 09511140 | 16   | 2.00   | 2.00  | .30   | .300  | 70   | <.5  | N     | 700 | 150  | 3.0  | 10   | 150  | 20    | 50   | 10   |
| 09511150 | 16   | 20.00  | .70   | .50   | .100  | 50   | 5.0  | 700   | 500 | 150  | 2.0  | 20   | 50   | 100   | N    | 70   |
| 09511160 | 16   | 15.00  | 1.00  | .30   | .300  | 70   | 3.0  | 500   | 700 | 200  | 3.0  | 30   | 150  | 100   | 30   | 30   |
| 09511170 | 16   | 5.00   | 1.50  | .30   | .300  | 70   | 1.5  | N     | 500 | 150  | 3.0  | 15   | 150  | 300   | 20   | 7    |
| 09511190 | 16   | >20.00 | .50   | .30   | .150  | 70   | 5.0  | <200  | 300 | 150  | 1.5  | 20   | 70   | 70    | N    | 50   |
| 09511200 | 16   | >20.00 | .70   | .20   | .150  | 150  | 7.0  | <200  | 500 | 150  | 3.0  | 15   | 70   | 200   | N    | N    |
| 09511210 | 16   | 20.00  | .70   | .20   | .200  | 70   | 3.0  | 500   | 500 | 150  | 5.0  | 30   | 70   | 100   | >0   | 100  |
| 09511220 | 16   | 5.00   | .70   | .20   | .200  | 50   | 1.5  | N     | 300 | 200  | 2.0  | 10   | 70   | 70    | 20   | 20   |
| 09511230 | 16   | 7.00   | 1.00  | .30   | .300  | 50   | 1.0  | N     | 500 | 100  | 3.0  | 15   | 70   | 50    | 20   | 50   |
| 09511240 | 16   | 5.00   | .30   | .50   | .050  | 30   | N    | N     | 100 | 100  | N    | 7    | 10   | 30    | N    | N    |
| 09511250 | 15   | 10.00  | .20   | .10   | .150  | 50   | 2.0  | 200   | 70  | 300  | 1.0  | 15   | 10   | 70    | N    | 15   |
| 09511260 | 15   | 20.00  | .15   | .15   | .050  | 50   | 5.0  | 1,000 | 50  | 500  | 1.0  | 30   | N    | 300   | N    | 50   |
| 09511270 | 15   | >0.00  | .50   | .15   | .150  | 30   | N    | N     | 100 | 500  | 1.5  | 5    | 20   | 20    | 30   | 20   |
| 09511280 | 15   | 3.00   | .30   | .07   | .100  | 20   | N    | N     | 50  | 500  | 2.0  | 5    | 15   | 20    | N    | 10   |
| 09511290 | 15   | 5.00   | .50   | .10   | .200  | 30   | .5   | N     | 70  | 700  | 1.5  | 7    | 20   | 30    | 30   | 20   |

| Sample   | S-NB | S-NI | S-PR  | S-SB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|-------|------|------|------|------|-----|-----|------|------|-------|
| 09510890 | N    | 30   | 70    | N    | N    | N    | N    | 50  | N   | N    | 20   | 45    |
| 09510900 | N    | 15   | 30    | N    | N    | N    | N    | 15  | N   | N    | 30   | 5     |
| 09510910 | N    | 30   | 150   | N    | N    | N    | N    | 15  | N   | N    | 50   | 35    |
| 09510920 | N    | 100  | 300   | N    | N    | N    | N    | 50  | 10  | 300  | 50   | 110   |
| 09510930 | N    | 30   | 200   | N    | N    | N    | N    | 50  | 20  | N    | 200  | 55    |
| 09510940 | N    | 30   | 150   | N    | N    | N    | N    | 10  | N   | N    | N    | 40    |
| 09510950 | N    | 30   | 200   | N    | N    | N    | N    | 20  | N   | 300  | N    | 200   |
| 09510960 | N    | 50   | 70    | N    | N    | N    | N    | 15  | N   | N    | N    | 35    |
| 09510970 | N    | 20   | 50    | N    | N    | N    | N    | N   | N   | N    | N    | 20    |
| 09510990 | N    | 50   | 500   | N    | N    | N    | N    | 20  | N   | 200  | 20   | 240   |
| 09511010 | N    | 15   | 70    | N    | N    | 15   | N    | N   | N   | N    | N    | 25    |
| 09511020 | N    | 30   | 100   | N    | 7    | N    | N    | 70  | 10  | N    | 100  | 10    |
| 09511030 | N    | 10   | 30    | N    | N    | N    | N    | 10  | N   | N    | 10   | 15    |
| 09511040 | N    | 10   | 20    | N    | N    | N    | N    | 10  | 10  | N    | 50   | 5     |
| 09511050 | N    | 10   | 30    | N    | N    | N    | N    | 20  | N   | N    | 70   | N     |
| 09511060 | N    | 10   | 20    | N    | N    | N    | N    | N   | N   | N    | 30   | 5     |
| 09511070 | N    | 50   | 200   | N    | N    | N    | N    | 20  | N   | 500  | 10   | 260   |
| 09511080 | N    | 20   | 100   | N    | 5    | 10   | N    | 50  | 30  | N    | 500  | 20    |
| 09511090 | N    | 50   | 150   | N    | 10   | N    | N    | 100 | 20  | N    | 100  | 40    |
| 09511100 | N    | 70   | 500   | N    | 10   | N    | N    | 100 | 15  | N    | 70   | 100   |
| 09511110 | N    | 70   | 300   | N    | 10   | N    | N    | 70  | 15  | N    | 70   | 35    |
| 09511120 | <20  | 30   | 150   | N    | 15   | N    | N    | 100 | 20  | N    | 200  | <5    |
| 09511130 | <20  | 50   | 100   | N    | 15   | N    | N    | 150 | 30  | N    | 150  | <5    |
| 09511140 | <20  | 30   | 100   | N    | 15   | 20   | N    | 100 | 20  | N    | 150  | <5    |
| 09511150 | N    | 70   | 700   | N    | 5    | N    | N    | 50  | N   | N    | 50   | 35    |
| 09511160 | <20  | 100  | 500   | N    | 10   | N    | N    | 70  | 15  | N    | 100  | 60    |
| 09511170 | <20  | 70   | 200   | N    | 10   | N    | N    | 100 | 20  | N    | 150  | 20    |
| 09511190 | N    | 50   | 2,000 | N    | N    | N    | N    | 50  | N   | N    | 100  | 75    |
| 09511200 | N    | 50   | 5,000 | N    | N    | N    | N    | 70  | N   | N    | 50   | 140   |
| 09511210 | N    | 100  | 500   | N    | 5    | N    | N    | 50  | 20  | N    | 100  | 25    |
| 09511220 | N    | 50   | 150   | N    | 5    | N    | N    | 70  | 10  | N    | 100  | 25    |
| 09511230 | <20  | 70   | 300   | N    | 7    | N    | N    | 100 | 15  | N    | 100  | 15    |
| 09511240 | N    | 20   | 100   | N    | N    | N    | N    | N   | N   | N    | 50   | 20    |
| 09511250 | N    | 70   | 200   | N    | N    | N    | N    | 15  | 20  | N    | 500  | 25    |
| 09511260 | N    | 150  | 700   | 100  | N    | N    | N    | 15  | N   | N    | 70   | 50    |
| 09511270 | N    | 20   | 100   | N    | N    | N    | N    | 20  | 20  | N    | 200  | 20    |
| 09511280 | N    | 20   | 100   | N    | N    | N    | N    | 15  | 10  | N    | 100  | 10    |
| 09511290 | N    | 30   | 300   | N    | N    | N    | N    | 20  | 20  | N    | 200  | 10    |

| Sample   | FORM | S-FEZ | S-MGZ | S-CAZ | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 095I1300 | 15   | 2.00  | .50   | .35   | .200  | 30   | .5   | N    | 50  | 700   | 1.0  | 7    | 15   | 20   | 50   | 15   |
| 095I1310 | 15   | 7.00  | .50   | .10   | .150  | 50   | 1.5  | 300  | 50  | 500   | 2.0  | 15   | 15   | 50   | 30   | 30   |
| 095I1320 | 15   | 15.00 | .50   | .10   | .200  | 50   | N    | N    | 70  | 700   | 2.0  | 10   | 30   | 30   | 30   | 15   |
| 095I1330 | 15   | 3.00  | .70   | .20   | .200  | 50   | N    | N    | 70  | 700   | 1.5  | 7    | 20   | 20   | 30   | 10   |
| 095I1340 | 15   | 10.00 | .30   | .35   | .070  | 30   | N    | 200  | 70  | 700   | 2.0  | 7    | 15   | 15   | N    | 15   |
| 095I1350 | 13   | 3.00  | .70   | .30   | .150  | 50   | N    | N    | 100 | 700   | 2.0  | 7    | 50   | 10   | N    | 5    |
| 095I1360 | 13   | 7.00  | 1.00  | .30   | .150  | 50   | N    | N    | 100 | 500   | 3.0  | 15   | 30   | 20   | 20   | N    |
| 095I1370 | 13   | 5.00  | 1.00  | .30   | .150  | 100  | N    | N    | 200 | 200   | 3.0  | 15   | 50   | 15   | 30   | N    |
| 095I1380 | 13   | 3.00  | .50   | .10   | .150  | 50   | N    | N    | 150 | 300   | 3.0  | 10   | 30   | 15   | 20   | N    |
| 095I1390 | 13   | 2.00  | 1.50  | 1.30  | .200  | 200  | N    | N    | 150 | 300   | 1.5  | 15   | 100  | 20   | 70   | N    |
| 095I1400 | 13   | 1.50  | .70   | .20   | .200  | 70   | N    | N    | 100 | 500   | 1.0  | 10   | 70   | 10   | 50   | N    |
| 095I1410 | 13   | 3.00  | 1.00  | .50   | .200  | 150  | N    | N    | 100 | 500   | 1.5  | 10   | 100  | 15   | 50   | N    |
| 095I1420 | 13   | 1.50  | .50   | .15   | .200  | 50   | N    | N    | 100 | 700   | 1.5  | 5    | 50   | 5    | 50   | N    |
| 095I1430 | 13   | 2.00  | .50   | .15   | .200  | 50   | N    | N    | 100 | 700   | 1.5  | 7    | 50   | 10   | 50   | N    |
| 095I1440 | 13   | 7.00  | 1.00  | .30   | .200  | 100  | N    | N    | 200 | 700   | 3.0  | 10   | 30   | 15   | 50   | 5    |
| 095I1450 | 13   | 10.00 | .70   | .07   | .200  | 70   | 1.5  | N    | 300 | 700   | 5.0  | 30   | 30   | 20   | 50   | 10   |
| 095I1460 | 13   | 15.00 | .70   | .30   | .300  | 70   | .5   | N    | 100 | 1,000 | 2.0  | 15   | 20   | 30   | 70   | 5    |
| 095I1470 | 13   | 5.00  | .70   | .15   | .300  | 50   | N    | N    | 150 | 1,000 | 2.0  | 15   | 20   | 15   | 70   | N    |
| 095I1480 | 13   | 1.50  | .50   | .20   | .300  | 70   | N    | N    | 70  | 1,000 | 1.5  | 7    | 20   | 7    | 70   | N    |
| 095I1490 | 13   | 5.00  | 1.00  | .15   | .300  | 70   | N    | N    | 200 | 1,000 | 5.0  | 10   | 30   | 10   | 70   | N    |
| 095I1500 | 13   | 5.00  | 1.00  | 1.30  | .300  | 150  | N    | N    | 150 | 1,000 | 3.0  | 15   | 30   | 10   | 70   | N    |
| 095I1510 | 13   | 2.00  | .70   | .10   | .200  | 50   | N    | N    | 150 | 1,000 | 5.0  | 10   | 20   | 10   | 70   | N    |
| 095I1520 | 13   | 1.50  | .30   | .10   | .200  | 50   | N    | N    | 70  | 1,000 | 1.5  | 10   | 20   | 10   | 70   | N    |
| 095I1530 | 13   | 1.00  | .50   | .30   | .200  | 100  | N    | N    | 100 | 500   | 2.0  | 7    | 20   | 5    | 70   | N    |
| 095I1540 | 13   | 2.00  | .70   | .30   | .150  | 100  | N    | N    | 100 | 500   | 2.0  | 5    | 20   | <5   | 70   | N    |
| 095I1550 | 13   | 1.00  | .20   | .07   | .150  | 30   | N    | N    | 70  | 300   | 2.0  | 7    | 20   | 7    | 70   | N    |
| 095I1560 | 13   | 1.00  | .15   | .10   | .050  | 20   | N    | N    | 70  | 100   | 2.0  | N    | 15   | 5    | N    | N    |
| 095I1570 | 13   | 2.00  | .30   | .10   | .150  | 50   | N    | N    | 100 | 150   | 3.0  | 10   | 15   | 10   | 30   | N    |
| 095I1580 | 13   | .70   | .20   | .10   | .150  | 50   | N    | N    | 100 | 300   | 1.0  | N    | 20   | 5    | 30   | N    |
| 095I1590 | 13   | .50   | .10   | <.05  | .100  | 15   | N    | N    | 30  | 200   | N    | N    | 10   | 5    | N    | N    |

| Sample   | S-NB | S-NI | S-PB | S-SB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 09511300 | N    | 20   | 150  | N    | N    | N    | N    | 30  | 15  | N    | 100  | 10    |
| 09511310 | N    | 50   | 200  | N    | N    | N    | N    | 30  | 15  | N    | 100  | 35    |
| 09511320 | N    | 30   | 300  | N    | N    | N    | N    | 50  | 20  | N    | 200  | 10    |
| 09511330 | <20  | 20   | 150  | N    | N    | N    | N    | 50  | 20  | N    | 300  | 10    |
| 09511340 | N    | 20   | 500  | N    | N    | N    | N    | 20  | 10  | N    | 70   | --    |
| 09511350 | N    | 15   | 70   | N    | 5    | N    | N    | 50  | 15  | N    | 200  | 5     |
| 09511360 | N    | 20   | 70   | N    | 5    | N    | N    | 50  | 20  | N    | 300  | <5    |
| 09511370 | N    | 20   | 10   | N    | N    | N    | N    | 30  | 10  | N    | 100  | 5     |
| 09511380 | N    | 15   | 30   | N    | N    | N    | N    | 20  | 20  | N    | 300  | <5    |
| 09511390 | N    | 20   | 20   | N    | 7    | N    | N    | 100 | 30  | N    | 150  | 5     |
| 09511400 | N    | 15   | 15   | N    | 5    | N    | N    | 70  | 20  | N    | 150  | N     |
| 09511410 | N    | 20   | 20   | N    | 10   | N    | N    | 70  | 30  | N    | 200  | 5     |
| 09511420 | N    | 7    | 20   | N    | 5    | N    | 100  | 50  | 30  | N    | 500  | 5     |
| 09511430 | N    | 7    | 30   | N    | 5    | N    | 150  | 50  | 30  | N    | 500  | N     |
| 09511440 | N    | 10   | 30   | N    | 5    | N    | 100  | 50  | 30  | N    | 200  | 10    |
| 09511450 | N    | 10   | 100  | N    | 5    | N    | 100  | 30  | 30  | N    | 300  | 5     |
| 09511460 | N    | 20   | 50   | N    | 5    | N    | 100  | 70  | 50  | N    | 300  | N     |
| 09511470 | N    | 10   | 20   | N    | 7    | N    | 150  | 50  | 50  | N    | 500  | <5    |
| 09511480 | <20  | 7    | 30   | N    | 5    | N    | 150  | 50  | 50  | N    | 500  | <5    |
| 09511490 | <20  | 7    | 30   | N    | 7    | N    | 100  | 50  | 50  | N    | 700  | <5    |
| 09511500 | <20  | 10   | 30   | N    | 7    | N    | 100  | 70  | 50  | N    | 500  | <5    |
| 09511510 | <20  | 10   | 30   | N    | 5    | N    | 100  | 30  | 50  | N    | 300  | 20    |
| 09511520 | N    | 7    | 50   | N    | N    | N    | 100  | 30  | 50  | N    | 500  | <5    |
| 09511530 | N    | 5    | 20   | N    | N    | N    | 100  | 30  | 50  | N    | 300  | <5    |
| 09511540 | N    | 5    | 10   | N    | N    | N    | 100  | 30  | 50  | N    | 500  | <5    |
| 09511550 | N    | 5    | 15   | N    | N    | N    | 100  | 30  | 50  | N    | 700  | N     |
| 09511560 | N    | 5    | N    | N    | N    | N    | N    | N   | 10  | N    | 200  | <5    |
| 09511570 | N    | 10   | 10   | N    | N    | N    | N    | 30  | 20  | N    | 300  | 10    |
| 09511580 | N    | 5    | 10   | N    | N    | N    | N    | 20  | 20  | N    | 300  | <5    |
| 09511590 | N    | 5    | 10   | N    | N    | N    | N    | 10  | 15  | N    | 300  | <5    |



TABLE 9.--Spectrographic analyses of insoluble-residue samples from drill hole no. 77.

| Sample   | FORM | S-FE%  | S-PG% | S-CA% | S-TI% | S-PN | S-AG | S-AS  | S-B | S-BA | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO  |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|------|------|------|------|------|------|-------|
| 07710720 | 17   | 20.00  | 1.00  | 1.50  | .005  | 15   | 2.0  | 2,000 | N   | 70   | N    | 30   | N    | 300  | N    | 30    |
| 07710730 | 17   | >20.00 | .05   | .10   | .015  | 20   | 15.0 | 7,000 | N   | 50   | N    | 70   | N    | 700  | N    | 1,500 |
| 07710790 | 17   | 20.00  | .10   | .20   | .070  | 50   | 3.0  | 700   | 30  | 100  | N    | 20   | 10   | 300  | N    | 200   |

| Sample   | S-NJ | S-LI | S-PC | S-S3 | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|------|-------|
| 07710720 | N    | 100  | 200  | N    | N    | N    | N    | 10  | N   | N    | N    | 40    |
| 07710730 | N    | 300  | 300  | V    | N    | N    | N    | 50  | N   | N    | N    | 50    |
| 07710790 | N    | 100  | 150  | V    | N    | 30   | N    | 20  | N   | N    | 30   | --    |

| Sample   | FORM | S-FE%  | S-MG% | S-CA% | S-TL% | S-MN | S-AG | S-AS  | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|-------|------|------|------|------|------|------|
| 07710810 | 17   | 10.00  | .15   | .30   | .050  | 50   | .7   | 500   | 10  | 70    | N    | 10   | 10   | 150  | N    | 50   |
| 07710820 | 17   | >20.00 | .07   | .15   | .010  | 50   | 2.0  | 1,000 | N   | N     | N    | 20   | N    | 300  | N    | 15   |
| 07710840 | 17   | >20.00 | .50   | .50   | 1.000 | 700  | 2.0  | 500   | N   | 500   | N    | 30   | 15   | 150  | N    | 20   |
| 07710850 | 17   | >20.00 | .20   | .50   | .020  | 30   | 7.0  | 2,000 | N   | N     | N    | 100  | N    | 500  | N    | 30   |
| 07710860 | 17   | 20.00  | .07   | .10   | .070  | 30   | 7.0  | 1,000 | 20  | 100   | N    | 20   | N    | 200  | N    | 20   |
| 07710890 | 17   | >20.00 | .05   | .15   | <.002 | 15   | 7.0  | 500   | N   | N     | N    | 20   | N    | 500  | N    | 20   |
| 07710900 | 17   | 20.00  | .05   | .15   | .020  | 20   | 10.0 | 1,500 | N   | N     | N    | 50   | N    | 300  | N    | 30   |
| 07710910 | 17   | 3.00   | .07   | .05   | .050  | 20   | .5   | N     | 20  | 70    | <1.0 | 15   | 20   | 150  | N    | 10   |
| 07710930 | 17   | 10.00  | .15   | .20   | .200  | 100  | 1.5  | 700   | 30  | 300   | 1.0  | 30   | 15   | 200  | 30   | 20   |
| 07710950 | 16   | 2.00   | .10   | .15   | .050  | 15   | N    | N     | 10  | 50    | N    | N    | N    | 50   | N    | 7    |
| 07710960 | 16   | 15.00  | .50   | .15   | .500  | 70   | 7.0  | 200   | 200 | 200   | 2.0  | 50   | 30   | 300  | 50   | 15   |
| 07710970 | 16   | 10.00  | .70   | .20   | .500  | 50   | 5.0  | 200   | 200 | 100   | 3.0  | 20   | 70   | 200  | 20   | 15   |
| 07710980 | 16   | 10.00  | .50   | .10   | .200  | 200  | N    | 1,000 | 50  | 2,000 | 1.0  | 30   | 10   | 50   | N    | 50   |
| 07710990 | 16   | 10.00  | 1.00  | .15   | .500  | 70   | .5   | N     | 200 | 100   | 2.0  | 20   | 100  | 150  | N    | 15   |
| 07711000 | 16   | 3.00   | .30   | .10   | .150  | 20   | <.5  | N     | 50  | 50    | 1.5  | 7    | 20   | 70   | N    | 15   |
| 07711010 | 16   | 5.00   | .70   | .10   | .300  | 30   | N    | N     | 70  | 100   | 2.0  | 10   | 50   | 30   | N    | 15   |
| 07711030 | 16   | 7.00   | 1.00  | .10   | .500  | 30   | N    | N     | 150 | 70    | 2.0  | 10   | 70   | 100  | N    | 20   |
| 07711040 | 16   | >20.00 | .10   | .07   | .070  | 50   | 7.0  | 700   | 20  | N     | <1.0 | 50   | N    | 300  | N    | 10   |
| 07711060 | 16   | 10.00  | .50   | .10   | .300  | 50   | 2.0  | N     | 200 | 100   | 2.0  | 50   | 50   | 200  | 20   | 15   |
| 07711070 | 16   | 3.00   | .50   | .10   | .150  | 30   | .7   | N     | 100 | 70    | 2.0  | 20   | 30   | 100  | N    | 10   |
| 07711090 | 16   | 10.00  | .50   | .10   | .200  | 30   | 1.0  | N     | 70  | 100   | 1.5  | 30   | 30   | 200  | 20   | 15   |
| 07711110 | 16   | 15.00  | .07   | .10   | .050  | 50   | 1.0  | 700   | 10  | 50    | N    | 30   | N    | 500  | N    | 15   |
| 07711120 | 16   | 10.00  | .70   | .15   | .300  | 50   | .7   | N     | 100 | 70    | 3.0  | 50   | 50   | 500  | N    | 10   |
| 07711130 | 16   | 15.00  | .10   | .10   | .100  | 20   | .7   | N     | 30  | 100   | 1.0  | 30   | 15   | 500  | N    | 10   |
| 07711170 | 15   | 7.00   | .05   | .07   | .050  | 50   | 2.0  | N     | 20  | 150   | <1.0 | 20   | 10   | 200  | N    | 10   |
| 07711190 | 15   | 10.00  | .05   | .07   | .010  | 50   | 2.0  | 300   | 10  | 20    | N    | 30   | N    | 500  | N    | 15   |
| 07711200 | 15   | .50    | .20   | .50   | .015  | <10  | N    | N     | 20  | 20    | N    | N    | N    | 7    | N    | N    |
| 07711210 | 15   | .70    | .10   | .30   | .050  | 10   | N    | N     | 20  | 100   | <1.0 | N    | N    | 10   | N    | N    |
| 07711220 | 15   | 2.00   | .15   | .10   | .100  | 20   | N    | N     | 30  | 200   | 2.0  | 10   | 10   | 150  | N    | 10   |
| 07711230 | 15   | .70    | .15   | .20   | .050  | N    | N    | N     | 30  | 100   | N    | N    | N    | 30   | N    | <5   |
| 07711240 | 15   | .70    | .15   | .20   | .070  | N    | N    | N     | 20  | 150   | <1.0 | 5    | N    | 20   | N    | N    |
| 07711250 | 15   | 5.00   | .15   | .10   | .150  | 20   | N    | N     | 30  | 500   | 2.0  | 7    | 10   | 70   | N    | 7    |
| 07711260 | 15   | 10.00  | .10   | .07   | .150  | 20   | N    | N     | 20  | 500   | 1.0  | 7    | 10   | 30   | N    | 7    |
| 07711270 | 13   | 3.00   | .50   | .15   | .300  | 50   | N    | N     | 70  | 300   | 1.0  | 15   | 50   | 70   | N    | 10   |
| 07711280 | 13   | 3.00   | .50   | .15   | .200  | 50   | N    | N     | 100 | 500   | 1.5  | 10   | 20   | 50   | N    | N    |
| 07711290 | 13   | 5.00   | .50   | .30   | .150  | 100  | N    | N     | 70  | 200   | 2.0  | 20   | 20   | 15   | N    | N    |
| 07711300 | 13   | 2.00   | .30   | .10   | .150  | 50   | N    | N     | 100 | 150   | 2.0  | 15   | 20   | 50   | N    | N    |
| 07711310 | 13   | 1.50   | .20   | .15   | .200  | 50   | N    | N     | 30  | 300   | 1.0  | 7    | 30   | 10   | N    | N    |
| 07711320 | 13   | 1.50   | .30   | .15   | .200  | 70   | N    | N     | 50  | 500   | 1.0  | 7    | 50   | 10   | N    | N    |
| 07711330 | 13   | 1.00   | .20   | .07   | .100  | 30   | N    | N     | 30  | 200   | 1.5  | 5    | 30   | 50   | N    | N    |
| 07711340 | 13   | .70    | .30   | .30   | .200  | 70   | N    | N     | 20  | 500   | 1.0  | N    | 30   | 7    | N    | N    |
| 07711350 | 13   | .70    | .30   | .20   | .300  | 30   | N    | N     | 20  | 500   | 1.0  | 5    | 30   | 7    | 20   | N    |
| 07711360 | 13   | 1.00   | .30   | .20   | .300  | 50   | N    | N     | 20  | 1,000 | 1.0  | 5    | 30   | 7    | 20   | N    |
| 07711370 | 13   | 1.50   | .20   | .15   | .500  | 20   | N    | N     | 50  | 1,000 | 1.5  | 5    | 20   | 7    | 30   | N    |
| 07711380 | 13   | 10.00  | 1.00  | .50   | .500  | 30   | N    | N     | 50  | 1,000 | 2.0  | 10   | 20   | 30   | 50   | 10   |

| Sample   | S-NB | S-NI | S-PB  | S-SC | S-SN | S-SR | S-V | S-Y | S-ZR   | AA-ZN |
|----------|------|------|-------|------|------|------|-----|-----|--------|-------|
| 07710810 | N    | >0   | 100   | N    | 100  | N    | 10  | N   | 70     | 55    |
| 07710820 | N    | 100  | 200   | N    | N    | N    | N   | N   | 30     | 110   |
| 07710830 | N    | 70   | 200   | 10   | N    | N    | 70  | 20  | >1,000 | 100   |
| 07710850 | N    | 200  | 300   | N    | N    | N    | 10  | N   | N      | 70    |
| 07710880 | N    | 70   | 700   | N    | N    | N    | 10  | 10  | 150    | 35    |
| 07710890 | N    | 70   | 1,000 | N    | N    | N    | N   | N   | N      | 50    |
| 07710900 | N    | 150  | 1,500 | N    | N    | N    | <10 | N   | 20     | 40    |
| 07710910 | N    | 50   | 150   | N    | N    | N    | 15  | N   | 150    | 40    |
| 07710930 | N    | 70   | 200   | 5    | 20   | N    | 20  | 50  | 500    | 140   |
| 07710950 | N    | 10   | 70    | N    | N    | N    | 10  | N   | 200    | 15    |
| 07710960 | N    | 100  | 300   | 7    | N    | N    | 100 | 10  | 300    | 35    |
| 07710970 | N    | 100  | 500   | 5    | N    | N    | 200 | 10  | 100    | 20    |
| 07710980 | N    | 50   | 20    | 5    | N    | 200  | 70  | N   | 200    | 35    |
| 07710990 | N    | 70   | 100   | 7    | N    | N    | 100 | 10  | 150    | 80    |
| 07711000 | N    | 30   | 100   | N    | N    | N    | 20  | N   | 70     | 15    |
| 07711010 | N    | 30   | 70    | 5    | N    | N    | >0  | N   | 150    | 10    |
| 07711030 | N    | 50   | 150   | 5    | 20   | N    | 70  | 10  | 100    | 35    |
| 07711040 | N    | 100  | 200   | N    | N    | N    | 10  | N   | 15     | 60    |
| 07711060 | N    | 100  | 200   | 5    | N    | N    | 100 | 15  | 150    | 20    |
| 07711070 | N    | 50   | 3,000 | 5    | N    | N    | 50  | 10  | 200    | 20    |
| 07711090 | N    | 70   | 100   | N    | N    | N    | 70  | 10  | 150    | 20    |
| 07711110 | N    | 100  | 70    | N    | N    | N    | N   | 10  | 1,000  | 40    |
| 07711120 | N    | 70   | 150   | 5    | N    | N    | 100 | <10 | 70     | 25    |
| 07711130 | N    | 70   | 100   | N    | N    | N    | 20  | N   | 50     | 45    |
| 07711170 | N    | 70   | 200   | N    | N    | N    | N   | N   | 150    | 20    |
| 07711190 | N    | 100  | 200   | N    | N    | N    | N   | N   | 10     | <50   |
| 07711200 | N    | 7    | <10   | N    | N    | N    | N   | N   | <10    | <5    |
| 07711210 | N    | 7    | 20    | N    | N    | N    | N   | N   | 50     | 5     |
| 07711220 | N    | 20   | 100   | N    | N    | N    | 15  | N   | 50     | 5     |
| 07711230 | N    | 10   | 70    | N    | N    | N    | N   | N   | 100    | <5    |
| 07711240 | N    | 10   | 20    | N    | N    | N    | N   | N   | 50     | <5    |
| 07711250 | N    | 15   | 100   | N    | N    | N    | 10  | 10  | 500    | 5     |
| 07711260 | N    | 15   | 150   | N    | N    | N    | 15  | <10 | 300    | <5    |
| 07711270 | N    | 20   | 70    | 7    | N    | N    | 100 | 10  | 200    | 5     |
| 07711280 | N    | 15   | 15    | N    | N    | N    | 50  | 10  | 300    | 10    |
| 07711290 | N    | 15   | 10    | <5   | N    | N    | >0  | 15  | 100    | <5    |
| 07711300 | N    | 15   | 10    | <5   | N    | N    | 70  | <10 | 300    | <5    |
| 07711310 | N    | 7    | 10    | N    | N    | N    | 50  | 15  | 500    | N     |
| 07711320 | N    | 7    | 15    | N    | N    | N    | 70  | 15  | 500    | <5    |
| 07711330 | N    | 10   | 10    | N    | N    | N    | >0  | N   | 200    | <5    |
| 07711340 | N    | 5    | 15    | N    | N    | N    | 50  | 10  | 300    | <5    |
| 07711350 | N    | 5    | 20    | N    | N    | N    | 50  | 20  | 700    | <5    |
| 07711360 | N    | 5    | 30    | N    | N    | 100  | 70  | 30  | 1,000  | 5     |
| 07711370 | N    | N    | 30    | N    | N    | 100  | 70  | 20  | 700    | <5    |
| 07711380 | <20  | 10   | 100   | N    | N    | 100  | 70  | 30  | 1,000  | 10    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 07711390 | 13   | 5.00  | .20   | .05   | .500  | 30   | N    | N    | 50  | 1,000 | 1.5  | 10   | 20   | 30   | 20   | 5    |
| 07711400 | 13   | 15.00 | 1.00  | .05   | .200  | 15   | N    | N    | 50  | 500   | 2.0  | 20   | 10   | 30   | N    | 10   |
| 07711410 | 13   | 5.00  | .20   | .05   | .500  | 20   | N    | N    | 50  | 1,000 | 2.0  | 10   | 20   | 20   | 50   | 5    |
| 07711420 | 13   | 5.00  | .15   | .05   | .500  | 20   | N    | N    | 20  | 700   | 1.0  | 15   | 10   | 20   | 50   | <5   |
| 07711430 | 13   | 7.00  | .70   | .05   | .200  | 20   | N    | N    | 100 | 700   | 5.0  | 15   | 10   | 20   | 20   | N    |
| 07711440 | 13   | 5.00  | .50   | .05   | .200  | 20   | N    | N    | 100 | 500   | 5.0  | 10   | 15   | 10   | N    | N    |
| 07711450 | 13   | 3.00  | .50   | .05   | .300  | 20   | N    | N    | 70  | 700   | 3.0  | 10   | 20   | 15   | 50   | N    |
| 07711460 | 13   | 3.00  | .10   | .05   | .200  | 15   | N    | N    | 20  | 300   | 1.0  | 7    | 10   | 20   | N    | 5    |
| 07711470 | 13   | 5.00  | .20   | .05   | .500  | 20   | N    | N    | 50  | 300   | 2.0  | 10   | 20   | 30   | 50   | 5    |
| 07711480 | 13   | 2.00  | .20   | .05   | .100  | 10   | N    | N    | 50  | 100   | 5.0  | 5    | 10   | 7    | N    | N    |
| 07711490 | 13   | 1.00  | .10   | .05   | .150  | 15   | N    | N    | 15  | 300   | 1.0  | 5    | 10   | 7    | 20   | N    |
| 07711500 | 13   | 1.50  | .15   | <.05  | .150  | 15   | N    | N    | 30  | 200   | 1.5  | 7    | 10   | 20   | 20   | N    |
| 07711510 | 13   | .10   | .02   | <.05  | .050  | N    | N    | N    | 10  | 50    | N    | N    | N    | <5   | N    | N    |
| 07711520 | 13   | 3.00  | .30   | .07   | .100  | 50   | N    | N    | 50  | 200   | 7.0  | 10   | 10   | 20   | 20   | N    |
| 07711530 | 13   | 5.00  | .20   | .05   | .070  | 15   | N    | N    | 50  | 100   | 7.0  | 10   | 15   | 10   | 20   | N    |

| Sample   | S-NB | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZR   | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|--------|-------|
| 07711390 | <20  | 7    | 70   | N    | N    | N    | 50  | 20  | 500    | 10    |
| 07711400 | N    | 20   | 100  | N    | N    | N    | 20  | 20  | 150    | 10    |
| 07711410 | <20  | 5    | 50   | N    | N    | 100  | 70  | 30  | 1,000  | 5     |
| 07711420 | <20  | 5    | 70   | N    | N    | N    | 50  | 30  | 1,000  | 5     |
| 07711430 | N    | 5    | 70   | N    | N    | N    | 50  | 20  | 1,000  | 5     |
| 07711440 | N    | N    | 30   | N    | N    | N    | 30  | 20  | 300    | 5     |
| 07711450 | <20  | N    | 70   | N    | N    | N    | 70  | 30  | 700    | <5    |
| 07711460 | N    | 5    | 30   | N    | N    | N    | 30  | 20  | 1,000  | 5     |
| 07711470 | <20  | 5    | 50   | N    | N    | N    | 50  | 30  | >1,000 | 5     |
| 07711480 | N    | N    | 20   | N    | N    | N    | 15  | 10  | 300    | 5     |
| 07711490 | N    | N    | 20   | N    | N    | N    | 10  | 15  | 1,000  | 5     |
| 07711500 | N    | N    | 50   | N    | N    | N    | 20  | 20  | 1,000  | 5     |
| 07711510 | N    | N    | N    | N    | N    | N    | N   | N   | 200    | <5    |
| 07711520 | N    | 5    | 50   | N    | N    | N    | 20  | 20  | 700    | 5     |
| 07711530 | N    | 5    | 15   | N    | N    | N    | 50  | 15  | 700    | 5     |

TABLE 10.--Spectrographic analyses of insoluble-residue samples from drill hole no. 86.

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-Ti% | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 08610810 | 17   | 20.00 | .02   | .07   | .010  | 50   | N    | 700  | N   | 30    | N    | N    | 10   | N    | 70   | N    |
| 08610830 | 17   | 3.00  | .05   | .20   | .050  | 20   | N    | 300  | 20  | 50    | N    | N    | 20   | N    | 30   | N    |
| 08610850 | 17   | 1.50  | .07   | .15   | .007  | 15   | N    | N    | 20  | 20    | N    | N    | N    | N    | 20   | N    |
| 08610870 | 17   | 1.00  | .15   | .30   | .050  | 10   | N    | N    | 15  | 70    | N    | N    | N    | 30   | 7    | N    |
| 08610890 | 17   | 10.00 | .10   | .20   | .030  | 70   | N    | 500  | 10  | 70    | N    | N    | 7    | 20   | 100  | N    |
| 08610910 | 17   | 5.00  | .10   | .20   | .015  | 20   | N    | N    | 10  | 2,000 | N    | <20  | N    | N    | 20   | N    |
| 08610930 | 17   | .50   | .10   | .20   | .003  | N    | N    | N    | 30  | 70    | N    | N    | N    | N    | 5    | N    |
| 03610950 | 17   | 1.50  | .10   | .30   | <.002 | 50   | N    | N    | 20  | 100   | N    | N    | N    | N    | 7    | N    |
| 08610970 | 17   | 5.00  | .10   | .20   | .020  | 20   | N    | N    | 20  | 30    | N    | N    | N    | N    | 700  | N    |
| 08610990 | 16   | .20   | .10   | .20   | .010  | 30   | N    | N    | 50  | 50    | N    | N    | N    | N    | <5   | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-W | S-Y | S-ZN  | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|-----|-------|------|-------|
| 08610810 | 10   | N    | 70   | 30   | N    | N    | 10  | N   | N   | N     | N    | 45    |
| 08610830 | 10   | N    | 100  | 20   | N    | N    | <10 | N   | N   | N     | 10   | 65    |
| 08610850 | N    | N    | 10   | N    | N    | N    | N   | 50  | N   | N     | N    | <10   |
| 08610870 | N    | N    | 5    | N    | N    | N    | 30  | N   | N   | N     | 15   | 15    |
| 08610890 | 20   | N    | 50   | 30   | N    | N    | 30  | N   | N   | N     | 20   | 15    |
| 08610910 | N    | N    | 10   | 15   | N    | N    | N   | N   | N   | 1,000 | 10   | 760   |
| 08610930 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | N    | <5    |
| 08610950 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | N    | <5    |
| 08610970 | 5    | N    | 20   | 10   | N    | N    | <10 | N   | N   | N     | <10  | 15    |
| 08610990 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | N    | <5    |



| Sample   | FORM | S-FEZ | S-MGZ | S-CAZ | S-TI% | S-MN | S-AG | S-AS  | S-B | S-BA  | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|-------|-----|-------|------|------|------|------|------|------|
| 086I1010 | 16   | 1.00  | .10   | .20   | .020  | 10   | N    | N     | 30  | 50    | N    | N    | N    | N    | 7    | N    |
| 086I1030 | 16   | 1.50  | .15   | .50   | .015  | 30   | N    | N     | 30  | 70    | N    | N    | N    | N    | 10   | N    |
| 086I1050 | 16   | 10.00 | .10   | .10   | .150  | 50   | N    | N     | 20  | 70    | N    | N    | 7    | 50   | 100  | N    |
| 086I1070 | 16   | 20.00 | .30   | .70   | .015  | 100  | N    | 200   | 10  | 20    | N    | N    | 15   | N    | 100  | N    |
| 086I1090 | 16   | 15.00 | .07   | .15   | .002  | 200  | N    | N     | 20  | 30    | N    | N    | 15   | N    | 50   | N    |
| 086I1110 | 16   | .50   | .10   | .30   | .002  | 20   | .7   | N     | 20  | 100   | N    | N    | N    | N    | 5    | N    |
| 086I1130 | 16   | 5.00  | 1.00  | .30   | .500  | 150  | N    | N     | 150 | 300   | 1.5  | N    | 20   | 150  | 50   | 30   |
| 086I1150 | 16   | 15.00 | .07   | .10   | .020  | 50   | N    | 300   | 15  | 50    | N    | N    | N    | N    | 70   | N    |
| 086I1170 | 16   | 10.00 | .10   | .20   | .020  | 70   | N    | 500   | 15  | <20   | <1.0 | N    | 7    | N    | 100  | N    |
| 086I1190 | 16   | 1.00  | .10   | .20   | .010  | 20   | N    | N     | 30  | 70    | N    | N    | N    | N    | 5    | N    |
| 086I1210 | 16   | .70   | .20   | .50   | .050  | 15   | N    | N     | 50  | 70    | N    | N    | N    | N    | 5    | N    |
| 086I1220 | 16   | .50   | .10   | .20   | .005  | 50   | N    | N     | 30  | 20    | N    | N    | N    | N    | 5    | N    |
| 086I1230 | 15   | 1.00  | .15   | .30   | .100  | 15   | N    | N     | 30  | 150   | N    | N    | N    | N    | 20   | N    |
| 086I1240 | 15   | .50   | .15   | .30   | .100  | 15   | N    | N     | 30  | 150   | N    | N    | N    | 10   | 5    | N    |
| 086I1250 | 15   | 1.00  | .10   | .20   | .030  | 10   | N    | N     | 30  | 70    | N    | N    | N    | N    | 30   | N    |
| 086I1260 | 15   | .20   | .20   | .50   | .070  | 30   | N    | N     | 20  | 200   | N    | N    | N    | N    | 5    | N    |
| 086I1270 | 15   | 7.00  | .20   | .10   | .300  | 20   | .5   | 200   | 70  | 300   | 1.0  | N    | 15   | 70   | 150  | N    |
| 086I1280 | 15   | 20.00 | .15   | .20   | .050  | 50   | 1.5  | 1,000 | 20  | 100   | <1.0 | N    | 20   | N    | 500  | N    |
| 086I1290 | 15   | 10.00 | .50   | .15   | .300  | 50   | 1.0  | 200   | 100 | 500   | 1.0  | N    | 20   | 70   | 300  | N    |
| 086I1300 | 15   | 10.00 | .50   | .20   | .500  | 20   | N    | N     | 50  | 500   | <1.0 | N    | 15   | 50   | 70   | N    |
| 086I1310 | 14   | 3.00  | 1.50  | 1.00  | .500  | 100  | N    | N     | 100 | 500   | 1.0  | N    | 30   | 100  | 70   | 30   |
| 086I1320 | 14   | 3.00  | 1.50  | .70   | .500  | 100  | N    | N     | 150 | 300   | 1.0  | N    | 30   | 100  | 50   | 20   |
| 086I1330 | 14   | 3.00  | 1.00  | .10   | .500  | 100  | N    | N     | 150 | 500   | 1.0  | N    | 30   | 100  | 70   | 20   |
| 086I1340 | 14   | 5.00  | 1.50  | 2.00  | .500  | 200  | N    | N     | 150 | 500   | 1.0  | N    | 30   | 150  | 30   | 30   |
| 086I1350 | 14   | 5.00  | 1.00  | .70   | .300  | 150  | N    | N     | 200 | 300   | 1.0  | N    | 20   | 100  | 20   | 20   |
| 086I1360 | 14   | 5.00  | 1.50  | 1.00  | .500  | 200  | N    | N     | 200 | 300   | 1.0  | N    | 30   | 150  | 20   | 20   |
| 086I1370 | 14   | 5.00  | 2.00  | .70   | .500  | 150  | N    | N     | 200 | 500   | 1.0  | N    | 20   | 150  | 50   | 20   |
| 086I1380 | 14   | 5.00  | 1.50  | .30   | .500  | 150  | N    | N     | 200 | 300   | 1.0  | N    | 20   | 150  | 100  | 20   |
| 086I1390 | 14   | 5.00  | 1.50  | .30   | .500  | 150  | N    | N     | 200 | 200   | 1.5  | N    | 30   | 150  | 50   | 20   |
| 086I1400 | 14   | 3.00  | 1.50  | .70   | .500  | 150  | N    | N     | 200 | 200   | 1.0  | N    | 20   | 150  | 10   | 20   |
| 086I1410 | 14   | 3.00  | 1.00  | .20   | .500  | 100  | N    | N     | 200 | 200   | 1.0  | N    | 20   | 150  | 7    | 30   |
| 086I1420 | 14   | 3.00  | 1.00  | .30   | .500  | 100  | N    | N     | 200 | 200   | 1.0  | N    | 20   | 100  | 30   | 30   |
| 086I1430 | 14   | 5.00  | 1.50  | .30   | .500  | 150  | N    | N     | 300 | 200   | 1.5  | N    | 30   | 150  | 150  | 30   |
| 086I1440 | 13   | 3.00  | .50   | .30   | .200  | 100  | N    | N     | 100 | 1,000 | 1.5  | N    | 10   | 50   | 7    | N    |
| 086I1450 | 13   | 7.00  | .50   | .20   | .150  | 70   | N    | N     | 100 | 200   | 1.5  | N    | 15   | 30   | 10   | N    |
| 086I1460 | 13   | 5.00  | .70   | .30   | .200  | 100  | N    | N     | 100 | 150   | 2.0  | N    | 10   | 50   | 5    | 20   |
| 086I1470 | 13   | 5.00  | .70   | .30   | .200  | 150  | N    | N     | 150 | 300   | 2.0  | N    | 15   | 100  | 50   | N    |
| 086I1480 | 13   | 2.00  | .70   | 1.00  | .300  | 500  | N    | N     | 100 | 500   | 1.5  | N    | 10   | 100  | 7    | N    |
| 086I1490 | 13   | 1.50  | .50   | .70   | .300  | 150  | N    | N     | 100 | 500   | 1.0  | N    | 10   | 70   | 70   | N    |
| 086I1500 | 13   | 1.50  | .50   | .20   | .200  | 70   | N    | N     | 50  | 500   | 1.0  | N    | 10   | 50   | 20   | N    |
| 086I1510 | 13   | .70   | .15   | .50   | .300  | 70   | N    | N     | 30  | 700   | 1.0  | N    | N    | 30   | <5   | 20   |
| 086I1520 | 13   | .70   | .20   | .50   | .300  | 70   | N    | N     | 50  | 700   | 1.0  | N    | N    | 20   | <5   | 30   |
| 086I1530 | 13   | 1.00  | .70   | 1.00  | .500  | 150  | N    | N     | 50  | 1,000 | 1.5  | N    | N    | 30   | <5   | 50   |
| 086I1540 | 13   | 1.00  | .20   | .20   | .200  | 30   | N    | N     | 30  | 500   | 1.0  | N    | N    | 20   | <5   | N    |
| 086I1550 | 13   | 5.00  | .50   | .15   | .300  | 20   | N    | N     | 100 | 500   | 2.0  | N    | 10   | 20   | 20   | N    |

| Sample   | S-MO | S-WB | S-NI | S-PB | S-SC | S-SR | S-V | S-W | S-Y | S-ZN | S-ZR  | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|-----|------|-------|-------|
| 086I1010 | N    | N    | 7    | N    | N    | N    | N   | N   | N   | N    | 10    | 10    |
| 086I1030 | N    | N    | 10   | 10   | N    | N    | N   | N   | N   | N    | N     | 10    |
| 086I1050 | 7    | N    | 20   | 50   | N    | N    | 20  | N   | N   | N    | 50    | 35    |
| 086I1070 | 15   | N    | 70   | 70   | N    | N    | 15  | N   | N   | N    | N     | 170   |
| 086I1090 | <5   | N    | 70   | 70   | N    | N    | 15  | N   | N   | 200  | N     | 200   |
| 086I1110 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N    | N     | 10    |
| 086I1130 | N    | N    | 70   | 10   | 10   | N    | 150 | N   | 10  | N    | 100   | 35    |
| 086I1150 | 15   | N    | 30   | 50   | N    | N    | <10 | N   | N   | N    | 20    | 50    |
| 086I1170 | 10   | N    | 50   | 50   | N    | N    | <10 | N   | N   | N    | 20    | --    |
| 086I1190 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N    | 15    | <5    |
| 086I1210 | N    | N    | 5    | N    | N    | N    | N   | N   | N   | N    | 15    | 10    |
| 086I1220 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N    | N     | 5     |
| 086I1230 | N    | N    | 7    | 10   | N    | N    | 10  | N   | N   | N    | 100   | 10    |
| 086I1240 | N    | N    | 5    | <10  | N    | N    | N   | N   | N   | N    | 100   | <5    |
| 086I1250 | 5    | N    | 10   | 30   | N    | N    | N   | N   | N   | N    | 15    | 5     |
| 086I1260 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N    | 100   | <5    |
| 086I1270 | 20   | N    | 70   | 200  | <5   | N    | 50  | N   | 10  | N    | 70    | --    |
| 086I1280 | 15   | N    | 100  | 200  | N    | N    | 15  | N   | 10  | N    | 100   | 30    |
| 086I1290 | 15   | N    | 70   | 150  | 5    | N    | 70  | N   | 10  | N    | 70    | 20    |
| 086I1300 | 5    | N    | 30   | 200  | <5   | N    | 100 | N   | 10  | N    | 150   | 20    |
| 086I1310 | N    | N    | 50   | 30   | 10   | N    | 150 | N   | 15  | N    | 150   | 10    |
| 086I1320 | N    | N    | 50   | 10   | 10   | N    | 150 | N   | 10  | N    | 100   | 25    |
| 086I1330 | N    | N    | 70   | 10   | 10   | N    | 150 | N   | <10 | N    | 70    | 25    |
| 086I1340 | N    | N    | 50   | 10   | 15   | N    | 200 | N   | 15  | N    | 100   | 40    |
| 086I1350 | N    | N    | 50   | 10   | 10   | N    | 150 | N   | 10  | N    | 70    | 35    |
| 086I1360 | N    | N    | 50   | N    | 10   | N    | 150 | N   | 10  | N    | 100   | 30    |
| 086I1370 | N    | N    | 50   | 15   | 10   | N    | 150 | N   | 10  | N    | 70    | 35    |
| 086I1380 | N    | N    | 50   | 10   | 10   | N    | 200 | N   | 10  | N    | 70    | 30    |
| 086I1390 | N    | N    | 50   | 10   | 15   | N    | 150 | N   | N   | N    | 70    | 25    |
| 086I1400 | N    | N    | 50   | 10   | 10   | N    | 150 | N   | 10  | N    | 70    | 30    |
| 086I1410 | N    | N    | 50   | 10   | 15   | N    | 150 | N   | 15  | N    | 70    | 40    |
| 086I1420 | N    | N    | 50   | 10   | 10   | N    | 150 | N   | <10 | N    | 50    | 35    |
| 086I1430 | N    | N    | 70   | 10   | 15   | N    | 150 | N   | 10  | N    | 70    | 40    |
| 086I1440 | N    | N    | 15   | 10   | 5    | N    | 70  | N   | 10  | N    | 300   | 10    |
| 086I1450 | N    | N    | 15   | 10   | 5    | N    | 70  | N   | 10  | N    | 300   | 5     |
| 086I1460 | N    | N    | 15   | 10   | 5    | N    | 50  | N   | 15  | N    | 200   | 15    |
| 086I1470 | N    | N    | 30   | <10  | 7    | N    | 70  | N   | 15  | N    | 200   | 10    |
| 086I1480 | N    | N    | 20   | 10   | 7    | N    | 70  | N   | 20  | N    | 200   | 10    |
| 086I1490 | N    | N    | 15   | 10   | 7    | N    | 70  | N   | 20  | N    | 700   | 5     |
| 086I1500 | N    | N    | 15   | 10   | 5    | N    | 70  | N   | 10  | N    | 200   | 5     |
| 086I1510 | N    | N    | N    | 15   | N    | 100  | 70  | N   | 20  | N    | 1,000 | <5    |
| 086I1520 | N    | N    | N    | 20   | N    | 100  | 70  | N   | 20  | N    | 500   | <5    |
| 086I1530 | N    | N    | N    | 20   | <5   | 100  | 70  | N   | 30  | N    | 700   | 5     |
| 086I1540 | N    | N    | 5    | 10   | N    | N    | 50  | N   | 15  | N    | 500   | 10    |
| 086I1550 | 5    | N    | 7    | 50   | N    | N    | 70  | N   | 20  | N    | 300   | 5     |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|------|-----|------|------|------|------|------|------|------|
| 08611560 | 13   | 10.00 | .30   | .20   | .300  | 30   | N    | N    | 100 | 500  | 2.0  | N    | 13   | 15   | 30   | N    |
| 08611570 | 13   | 7.00  | .20   | .15   | .100  | 30   | N    | N    | 70  | 500  | 1.5  | N    | 10   | 15   | 15   | N    |
| 08611580 | 13   | 5.00  | .30   | .10   | .300  | 20   | N    | N    | 100 | 500  | 2.0  | N    | 10   | 20   | 30   | 20   |
| 08611590 | 13   | 3.00  | .30   | .10   | .300  | 20   | N    | N    | 100 | 500  | 2.0  | N    | 10   | 20   | 20   | N    |
| 08611600 | 13   | 2.00  | .50   | .15   | .150  | 20   | N    | N    | 100 | 700  | 3.0  | N    | 5    | 10   | 7    | N    |
| 08611610 | 13   | 5.00  | .50   | .15   | .300  | 20   | N    | N    | 70  | 700  | 1.0  | N    | 10   | 20   | 20   | N    |
| 08611620 | 13   | 7.00  | .15   | .10   | .200  | 20   | N    | N    | 50  | 700  | 1.5  | N    | 7    | 10   | 30   | N    |
| 08611630 | 13   | .10   | .05   | .35   | .050  | 10   | N    | N    | N   | 100  | N    | N    | N    | N    | <5   | N    |
| 08611640 | 13   | 1.50  | .20   | .37   | .100  | 10   | N    | N    | 50  | 200  | 5.0  | N    | N    | 10   | <5   | N    |
| 08611650 | 13   | 1.50  | .15   | .35   | .200  | 20   | N    | N    | 30  | 500  | 1.5  | 20   | N    | 10   | 10   | 20   |
| 08611660 | 13   | 1.50  | .30   | .10   | .300  | 30   | N    | N    | 70  | 300  | 2.0  | N    | 5    | 15   | 7    | 50   |
| 08611670 | 13   | 1.00  | .30   | .15   | .150  | 30   | N    | N    | 50  | 300  | 3.0  | N    | 5    | 10   | 5    | 20   |
| 08611680 | 13   | 1.00  | .50   | .20   | .500  | 70   | N    | N    | 100 | 500  | 2.0  | N    | 7    | 30   | <5   | 70   |
| 08611690 | 13   | 1.00  | .70   | .50   | .500  | 100  | N    | N    | 100 | 700  | 2.0  | N    | 10   | 30   | 7    | 100  |
| 08611700 | 13   | 1.50  | .30   | .20   | .200  | 50   | N    | N    | 50  | 700  | 3.0  | N    | 7    | 15   | 10   | N    |
| 08611710 | 13   | .15   | .03   | .35   | .050  | 20   | N    | N    | N   | 70   | <1.0 | N    | N    | N    | <5   | N    |
| 08611720 | 13   | .10   | .02   | <.35  | .030  | 15   | N    | N    | N   | 50   | N    | N    | N    | 10   | <5   | N    |
| 08611730 | 13   | .20   | .05   | <.35  | .100  | 20   | N    | N    | 10  | 100  | <1.0 | N    | N    | N    | <5   | N    |
| 08611740 | 12   | <.05  | <.02  | <.35  | .020  | <10  | N    | N    | N   | 30   | N    | N    | N    | N    | <5   | N    |
| 08611750 | 12   | .50   | .07   | .35   | .070  | 20   | N    | N    | 10  | 100  | <1.0 | N    | N    | N    | 5    | N    |
| 08611760 | 12   | .15   | .02   | <.35  | .030  | 10   | N    | N    | N   | 70   | N    | N    | N    | N    | <5   | N    |
| 08611766 | 12   | .10   | .03   | <.35  | .050  | 15   | N    | N    | N   | 100  | N    | N    | N    | N    | <5   | N    |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-W | S-Y | S-ZN  | S-ZR   | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|-----|-------|--------|-------|
| 08611560 | N    | N    | 7    | 70   | N    | N    | 50  | N   | 15  | N     | 300    | 10    |
| 08611570 | N    | N    | 7    | 20   | N    | N    | 30  | N   | <10 | N     | 500    | 15    |
| 08611580 | N    | <20  | 7    | 50   | N    | N    | 50  | N   | 20  | N     | 150    | 15    |
| 08611590 | N    | <20  | 7    | 50   | N    | N    | 70  | N   | 15  | N     | 1,000  | <10   |
| 08611600 | N    | 6    | N    | 50   | N    | N    | 20  | N   | 10  | N     | 700    | 5     |
| 08611610 | N    | <20  | 7    | 70   | N    | N    | 50  | N   | 20  | N     | 500    | 20    |
| 08611620 | N    | N    | 5    | 30   | N    | N    | 20  | N   | 20  | N     | 1,000  | N     |
| 08611630 | N    | N    | N    | N    | N    | N    | 10  | N   | N   | N     | 200    | 5     |
| 08611640 | N    | N    | N    | N    | N    | N    | 10  | N   | 20  | N     | 500    | 45    |
| 08611650 | N    | N    | 5    | 30   | N    | N    | 20  | N   | 20  | 5,000 | 1,000  | 1,200 |
| 08611660 | N    | <20  | 5    | 20   | N    | N    | 30  | N   | 20  | N     | >1,000 | 5     |
| 08611670 | N    | N    | N    | 15   | N    | N    | 15  | N   | 20  | N     | >1,000 | 30    |
| 08611680 | N    | <20  | N    | 15   | 7    | 100  | 70  | N   | 30  | N     | 500    | 10    |
| 08611690 | N    | <20  | N    | 20   | 7    | 100  | 70  | N   | 30  | N     | 500    | 5     |
| 08611700 | N    | <20  | N    | 15   | N    | N    | 30  | N   | 30  | N     | >1,000 | 10    |
| 08611710 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | 200    | 10    |
| 08611720 | N    | N    | N    | 15   | N    | N    | N   | N   | N   | N     | 70     | <5    |
| 08611730 | N    | N    | N    | 15   | N    | N    | N   | N   | 10  | N     | 1,000  | <5    |
| 08611740 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | >1,000 | <5    |
| 08611750 | N    | N    | N    | 10   | N    | N    | N   | N   | 10  | N     | 500    | <5    |
| 08611760 | N    | N    | N    | N    | N    | N    | N   | N   | N   | N     | 700    | 5     |
| 08611766 | N    | N    | N    | N    | N    | N    | N   | N   | 10  | N     | 1,000  | <5    |

TABLE 11.--Spectrographic analyses of insoluble-residue samples from drill hole no. 102.

| Sample   | FORM | S-FE% | S-MG% | S-CAZ | S-Ti% | S-MN | S-AG | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU  | S-LA | S-MO | S-NB |
|----------|------|-------|-------|-------|-------|------|------|-----|-------|------|------|------|-------|------|------|------|
| 10210810 | 16   | 1.00  | .05   | .10   | .005  | 50   | N    | 30  | 70    | N    | N    | N    | >0    | N    | N    | N    |
| 10210820 | 16   | 15.00 | 1.50  | 1.00  | .150  | 200  | N    | 150 | 150   | 2.0  | 15   | 50   | 200   | N    | 5    | N    |
| 10210830 | 16   | 7.00  | 1.00  | .70   | .150  | 100  | N    | 150 | 200   | 2.0  | 30   | 30   | 300   | N    | N    | N    |
| 10210840 | 16   | .70   | .20   | .30   | .050  | 15   | .7   | 70  | 70    | N    | N    | 10   | 20    | N    | N    | N    |
| 10210850 | 16   | .20   | .07   | .10   | .020  | 70   | N    | 70  | 50    | N    | N    | <10  | 5     | N    | N    | N    |
| 10210860 | 16   | 1.50  | .70   | .50   | .050  | 10   | N    | 30  | 20    | N    | N    | 15   | >0    | N    | N    | N    |
| 10210870 | 16   | .10   | .20   | .30   | .007  | <10  | N    | 50  | 30    | N    | N    | 5    | 5     | N    | N    | N    |
| 10210880 | 16   | .15   | .20   | .30   | .010  | 10   | N    | 50  | 20    | N    | N    | 7    | 7     | N    | N    | N    |
| 10210890 | 15   | 2.00  | .20   | .10   | .100  | 150  | N    | 30  | 700   | 1.0  | <5   | 15   | 10    | N    | N    | N    |
| 10210900 | 15   | 1.50  | .30   | .20   | .150  | 70   | N    | 50  | 150   | 1.5  | 5    | 30   | 10    | N    | N    | N    |
| 10210910 | 15   | 20.00 | .20   | .10   | .070  | 15   | .5   | 30  | 150   | 1.0  | 15   | 20   | 30    | N    | N    | N    |
| 10210920 | 15   | 2.00  | .20   | .15   | .050  | 20   | .5   | 70  | 70    | N    | N    | 10   | 10    | N    | N    | N    |
| 10210930 | 15   | 2.00  | .50   | .20   | .150  | 50   | N    | 100 | 700   | 1.5  | 7    | 50   | 1,000 | 20   | N    | N    |
| 10210940 | 15   | 20.00 | .50   | .30   | .200  | 50   | N    | 50  | 500   | 1.0  | 20   | 70   | 100   | N    | 10   | N    |
| 10210950 | 15   | 15.00 | .50   | .20   | .200  | 50   | N    | 50  | 300   | 1.0  | 20   | 70   | 100   | N    | 5    | N    |
| 10210960 | 15   | 3.00  | 1.50  | 1.00  | .200  | 200  | N    | 150 | 700   | 1.0  | 15   | 100  | 20    | 20   | N    | N    |
| 10210970 | 15   | 5.00  | 1.00  | .70   | .500  | 70   | N    | 100 | 700   | 1.0  | 15   | 150  | 50    | 20   | <5   | N    |
| 10210980 | 15   | 7.00  | .50   | .20   | .200  | 30   | N    | 70  | 700   | 1.0  | 10   | 70   | 70    | N    | 5    | N    |
| 10210990 | 15   | 3.00  | 1.00  | 1.00  | .300  | 50   | N    | 50  | 700   | N    | 10   | 100  | 20    | N    | N    | N    |
| 10211000 | 15   | 1.50  | 2.00  | 1.50  | .300  | 70   | N    | 70  | 1,000 | N    | 10   | 100  | 20    | N    | N    | N    |
| 10211010 | 14   | 2.00  | .70   | .30   | .300  | 50   | N    | 70  | 1,000 | N    | 10   | 150  | >0    | N    | N    | N    |
| 10211020 | 14   | 2.00  | 1.00  | .50   | .300  | 70   | N    | 70  | 1,000 | 1.0  | 15   | 100  | 15    | N    | N    | N    |
| 10211030 | 14   | 5.00  | 1.50  | .30   | .500  | 150  | N    | 150 | 700   | 1.0  | 20   | 150  | 30    | 30   | N    | N    |
| 10211040 | 14   | 3.00  | 1.50  | .70   | .300  | 100  | N    | 150 | 1,000 | N    | 15   | 100  | 20    | 20   | N    | N    |
| 10211050 | 14   | 3.00  | 1.50  | .50   | .300  | 100  | N    | 150 | 1,000 | N    | 15   | 150  | 15    | 30   | N    | N    |
| 10211060 | 14   | 3.00  | 1.50  | .50   | .300  | 100  | N    | 150 | 1,000 | 1.0  | 15   | 100  | 15    | 30   | N    | N    |
| 10211070 | 14   | 5.00  | 1.50  | .70   | .500  | 200  | N    | 200 | 1,000 | 1.0  | 20   | 150  | 20    | 50   | N    | N    |
| 10211080 | 14   | 3.00  | 1.50  | .20   | .500  | 150  | N    | 150 | 1,000 | N    | 20   | 150  | 15    | 30   | N    | N    |
| 10211090 | 14   | 5.00  | 1.50  | .30   | .500  | 150  | N    | 150 | 700   | 1.0  | 20   | 150  | 10    | 30   | N    | N    |
| 10211100 | 14   | 5.00  | 1.50  | .20   | .500  | 150  | N    | 200 | 700   | 1.0  | 20   | 150  | 10    | 30   | N    | N    |
| 10211110 | 14   | 5.00  | 1.50  | 1.00  | .500  | 200  | N    | 100 | 1,000 | N    | 20   | 150  | 20    | 30   | N    | N    |
| 10211120 | 14   | 3.00  | 1.50  | 1.00  | .300  | 150  | N    | 100 | 700   | 1.0  | 15   | 100  | 15    | 20   | N    | N    |
| 10211130 | 14   | 5.00  | 1.50  | .30   | .500  | 200  | N    | 200 | 700   | 1.0  | 20   | 150  | 20    | 30   | N    | N    |
| 10211140 | 14   | 5.00  | 1.50  | .50   | .500  | 200  | N    | 150 | 700   | N    | 20   | 150  | 20    | 30   | N    | N    |
| 10211150 | 13   | 3.00  | 1.50  | 1.50  | .300  | 200  | N    | 100 | 1,000 | N    | 15   | 100  | 10    | 20   | N    | N    |
| 10211160 | 13   | 5.00  | 1.50  | .20   | .500  | 150  | N    | 200 | 700   | 1.0  | 20   | 150  | 30    | 30   | N    | N    |
| 10211170 | 13   | 5.00  | 1.50  | 1.00  | .500  | 200  | N    | 200 | 700   | 1.0  | 20   | 150  | 20    | 50   | N    | N    |
| 10211180 | 13   | 3.00  | 1.50  | .30   | .500  | 150  | N    | 150 | 1,000 | 1.5  | 15   | 100  | 20    | 50   | N    | N    |
| 10211190 | 13   | 2.00  | .70   | .30   | .300  | 70   | N    | 70  | 1,000 | 1.0  | 5    | 70   | 10    | 20   | N    | N    |
| 10211200 | 13   | 2.00  | .70   | .50   | .500  | 100  | N    | 70  | 1,500 | 1.0  | 5    | 70   | 10    | 50   | N    | N    |
| 10211210 | 13   | 1.00  | .50   | .50   | .300  | 70   | N    | 30  | 1,500 | 1.0  | N    | 30   | 5     | 20   | N    | N    |
| 10211220 | 13   | 1.50  | .70   | 2.00  | .300  | 100  | N    | 50  | 1,500 | 1.5  | N    | 30   | 10    | 20   | N    | N    |
| 10211230 | 13   | 1.50  | .50   | .30   | .300  | 50   | N    | 70  | 1,500 | 1.5  | N    | 30   | 15    | 30   | N    | N    |
| 10211240 | 13   | 1.00  | .30   | .15   | .300  | 30   | N    | 50  | 1,500 | 1.5  | N    | 20   | 5     | 30   | N    | N    |
| 10211250 | 13   | 2.00  | .70   | .50   | .500  | 70   | N    | 70  | 1,500 | 1.5  | 5    | 30   | 10    | 70   | N    | <20  |

| Sample   | S-NI | S-PB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|-----|-----|------|-------|
| 10210810 | 7    | N    | N    | N    | N    | N   | N   | N    | --    |
| 10210820 | 100  | 70   | <5   | N    | N    | 50  | N   | 50   | --    |
| 10210830 | 200  | 70   | N    | N    | N    | N   | N   | 70   | --    |
| 10210840 | 7    | <10  | N    | N    | N    | N   | N   | 30   | --    |
| 10210850 | N    | N    | N    | N    | N    | N   | N   | 15   | --    |
| 10210860 | 10   | 10   | N    | N    | N    | 20  | N   | 30   | --    |
| 10210870 | N    | N    | N    | N    | N    | N   | N   | 10   | <5    |
| 10210880 | N    | N    | N    | N    | N    | N   | N   | 10   | <5    |
| 10210890 | 5    | N    | 5    | N    | N    | 30  | 10  | 100  | --    |
| 10210900 | 15   | 15   | N    | N    | N    | 30  | <10 | 70   | --    |
| 10210910 | 70   | 50   | N    | N    | N    | 15  | N   | 50   | --    |
| 10210920 | 10   | N    | N    | N    | N    | N   | N   | 20   | 5     |
| 10210930 | 15   | 10   | <5   | N    | <100 | 30  | 15  | 200  | --    |
| 10210940 | 50   | 100  | N    | N    | <100 | 30  | 15  | 150  | --    |
| 10210950 | 70   | 100  | N    | N    | <100 | 30  | <10 | 100  | 15    |
| 10210960 | 30   | 15   | 7    | N    | <100 | 70  | 15  | 150  | 15    |
| 10210970 | 30   | >0   | 5    | N    | <100 | 70  | 10  | 100  | 10    |
| 10210980 | 30   | 70   | N    | N    | <100 | 50  | <10 | 100  | 10    |
| 10210990 | 20   | 30   | N    | N    | <100 | 70  | 20  | 300  | <5    |
| 10211000 | 20   | 20   | <5   | N    | 100  | 70  | 15  | 200  | <5    |
| 10211010 | 20   | 20   | <5   | N    | 100  | 70  | 15  | 200  | <5    |
| 10211020 | 20   | 15   | 5    | N    | <100 | 70  | 15  | 300  | 15    |
| 10211030 | 50   | 15   | 10   | N    | <100 | 100 | 10  | 150  | 30    |
| 10211040 | 30   | 10   | 7    | N    | <100 | 100 | 15  | 150  | 25    |
| 10211050 | 30   | 15   | 10   | N    | 100  | 70  | 15  | 200  | 25    |
| 10211060 | 30   | 10   | 10   | N    | 100  | 70  | 15  | 200  | 30    |
| 10211070 | 50   | 10   | 15   | N    | 100  | 100 | 15  | 200  | 35    |
| 10211080 | 50   | 10   | 10   | N    | 100  | 100 | 15  | 200  | 35    |
| 10211090 | 50   | 10   | 10   | N    | 100  | 100 | 15  | 200  | 35    |
| 10211100 | 50   | 10   | 10   | N    | <100 | 100 | 15  | 200  | 30    |
| 10211110 | 50   | 15   | 10   | N    | 100  | 100 | 20  | 200  | 25    |
| 10211120 | 30   | 10   | 7    | N    | 100  | 70  | 15  | 200  | 25    |
| 10211130 | 50   | 10   | 10   | N    | <100 | 100 | 15  | 200  | 35    |
| 10211140 | 30   | 10   | 10   | N    | 100  | 100 | 15  | 200  | 35    |
| 10211150 | 30   | 10   | 7    | N    | 100  | 70  | 15  | 150  | 20    |
| 10211160 | 50   | 15   | 10   | N    | <100 | 100 | 15  | 150  | 35    |
| 10211170 | 30   | 10   | 15   | N    | 100  | 100 | 20  | 150  | 30    |
| 10211180 | 30   | 20   | 10   | N    | 100  | 100 | 20  | 200  | 50    |
| 10211190 | 10   | 15   | <5   | N    | <100 | 70  | 20  | 300  | 10    |
| 10211200 | 10   | 20   | <5   | N    | 100  | 70  | 30  | 300  | 5     |
| 10211210 | <5   | 20   | N    | N    | <100 | 50  | 20  | 300  | 5     |
| 10211220 | 5    | 20   | N    | N    | <100 | 70  | 30  | 500  | 5     |
| 10211230 | 5    | 20   | N    | N    | 100  | 70  | 20  | 500  | <5    |
| 10211240 | N    | 20   | N    | N    | <100 | >0  | 20  | 500  | <5    |
| 10211250 | 5    | 20   | <5   | N    | 100  | 70  | 30  | 500  | <5    |

| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-B | S-BA   | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO | S-NB |
|----------|------|-------|-------|-------|-------|------|------|-----|--------|------|------|------|------|------|------|------|
| 10211260 | 13   | 2.00  | .70   | .30   | .500  | 70   | N    | 100 | 1,500  | 2.0  | 5    | 50   | 10   | 50   | N    | <20  |
| 10211270 | 13   | 2.00  | 1.00  | .50   | .500  | 70   | N    | 150 | 1,500  | 2.0  | 5    | 50   | 10   | 100  | N    | <20  |
| 10211280 | 13   | 2.00  | 1.00  | .30   | .500  | 70   | N    | 150 | 1,000  | 2.0  | 5    | 50   | 15   | 100  | N    | <20  |
| 10211290 | 13   | 2.00  | 1.50  | 1.00  | .500  | 100  | N    | 150 | 1,000  | 2.0  | 5    | 70   | 10   | 100  | N    | 20   |
| 10211300 | 13   | 2.00  | 1.00  | .70   | .500  | 70   | N    | 150 | 1,500  | 1.5  | 5    | 50   | 15   | 70   | N    | <20  |
| 10211310 | 13   | 2.00  | 1.00  | .30   | .500  | 70   | N    | 150 | 1,000  | 2.0  | 5    | 50   | 100  | 70   | N    | <20  |
| 10211320 | 13   | 2.00  | 1.50  | .50   | .500  | 100  | N    | 150 | 1,000  | 2.0  | 7    | 50   | 7    | 100  | N    | <20  |
| 10211330 | 13   | 3.00  | 1.50  | 1.00  | .500  | 100  | N    | 200 | 1,000  | 2.0  | 10   | 70   | 10   | 100  | N    | <20  |
| 10211340 | 13   | 2.00  | 1.50  | .70   | .500  | 100  | N    | 200 | 1,000  | 2.0  | 10   | 70   | 15   | 70   | N    | N    |
| 10211350 | 13   | 2.00  | 1.00  | .50   | .500  | 100  | N    | 150 | 1,000  | 1.5  | 7    | 70   | 7    | 70   | N    | <20  |
| 10211360 | 13   | 2.00  | 1.50  | 1.00  | .500  | 100  | N    | 150 | 1,000  | 2.0  | 7    | 70   | 15   | 70   | N    | <20  |
| 10211370 | 13   | 5.00  | 1.00  | .20   | .300  | 50   | N    | 150 | 1,500  | 5.0  | 50   | 30   | 50   | 30   | N    | <20  |
| 10211380 | 13   | 5.00  | .70   | .07   | .500  | 70   | N    | 100 | >5,000 | 3.0  | 15   | 50   | 500  | 70   | N    | <20  |
| 10211385 | 13   | 5.00  | .70   | .07   | .200  | 50   | .5   | 100 | >5,000 | 5.0  | 15   | 20   | 500  | N    | N    | N    |
| 10211390 | 11   | 7.00  | 1.00  | .20   | .300  | 150  | N    | 100 | 2,000  | 5.0  | 20   | <10  | 15   | 100  | N    | <20  |
| 10211400 | 11   | >.00  | .50   | .30   | .500  | 150  | N    | 20  | 2,000  | 1.5  | 10   | N    | 10   | 70   | N    | <20  |
| 10211410 | 11   | 7.00  | .50   | .20   | .300  | 100  | N    | 10  | 2,000  | 1.5  | 15   | N    | 20   | 30   | N    | <20  |

| Sample   | S-NI | S-PB | S-SC | S-SN | S-SP | S-V | S-Y | S-ZR | AA-ZN |
|----------|------|------|------|------|------|-----|-----|------|-------|
| 102I1260 | 5    | 20   | <5   | N    | 100  | 70  | 30  | 500  | 5     |
| 102I1270 | 7    | 15   | 5    | <10  | 100  | 70  | 50  | 300  | 10    |
| 102I1280 | 10   | 15   | 5    | <10  | 100  | 70  | 50  | 300  | 5     |
| 102I1290 | 10   | 20   | 7    | <10  | 150  | 100 | 30  | 300  | 10    |
| 102I1300 | 7    | 15   | 5    | <10  | 100  | 70  | 30  | 300  | 5     |
| 102I1310 | 15   | 15   | 5    | <10  | 150  | 70  | 30  | 300  | 10    |
| 102I1320 | 10   | 20   | 5    | <10  | 150  | 70  | 30  | 300  | 10    |
| 102I1330 | 15   | 20   | 7    | <10  | 150  | 100 | 30  | 300  | 10    |
| 102I1340 | 15   | 20   | 7    | <10  | 100  | 70  | 30  | 200  | 15    |
| 102I1350 | 10   | 20   | 7    | <10  | 100  | 100 | 30  | 300  | 15    |
| 102I1360 | 10   | 20   | 7    | N    | 100  | 100 | 30  | 200  | 15    |
| 102I1370 | 15   | 30   | N    | N    | <100 | 50  | 20  | 300  | 25    |
| 102I1380 | 15   | 20   | 5    | N    | <100 | 70  | 50  | 300  | 5     |
| 102I1385 | 15   | 30   | N    | N    | 150  | 30  | 30  | 200  | <5    |
| 102I1390 | <5   | 10   | 30   | 10   | <100 | 100 | 100 | 300  | 30    |
| 102I1400 | N    | 20   | 20   | N    | 100  | 70  | 70  | 300  | 25    |
| 102I1410 | N    | 15   | 20   | N    | <100 | 100 | 70  | 300  | 20    |



TABLE 12.--Spectrographic analyses of insoluble-residue samples from drill hole no. 85.

| Sample   | FORM | S-FE%  | S-MG% | S-CA% | S-Ti% | S-P% | S-AG | S-AS  | S-B | S-BA | S-BE | S-CO | S-CR | S-CU  | S-LA | S-MO   |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|------|------|------|------|-------|------|--------|
| 08510880 | 17   | 2.00   | .15   | .20   | .100  | 15   | N    | N     | 20  | 100  | 1.0  | 10   | 10   | 30    | N    | 500    |
| 08510890 | 17   | .70    | .07   | .15   | .005  | 10   | N    | N     | 10  | 70   | N    | N    | N    | 5     | N    | 50     |
| 08510900 | 17   | 7.00   | .07   | .20   | .015  | 30   | 1.0  | 1,500 | 10  | 100  | N    | 5    | N    | 100   | N    | 100    |
| 08510910 | 17   | 1.00   | .15   | .30   | .007  | 15   | N    | <200  | 30  | 70   | N    | N    | N    | 10    | N    | 150    |
| 08510920 | 17   | 1.00   | .07   | .20   | .020  | 10   | N    | <200  | 20  | 100  | N    | N    | N    | 20    | N    | 300    |
| 08510930 | 17   | .50    | .10   | .20   | .010  | 10   | N    | N     | 30  | 70   | N    | N    | N    | 10    | N    | 70     |
| 08510940 | 17   | .70    | .10   | .20   | .010  | 10   | N    | N     | 15  | 100  | N    | N    | N    | 15    | N    | 50     |
| 08510950 | 17   | .70    | .20   | .50   | .015  | 15   | .5   | N     | 20  | 100  | N    | N    | N    | 20    | N    | 150    |
| 08510960 | 17   | 15.00  | .70   | 1.50  | .015  | 50   | 2.0  | 1,000 | N   | 50   | N    | 10   | N    | 150   | N    | 100    |
| 08510970 | 17   | 20.00  | .20   | .50   | .005  | 50   | 10.0 | 5,000 | N   | 50   | N    | 150  | N    | 1,000 | N    | 1,000  |
| 08510980 | 17   | >20.00 | .30   | .50   | .020  | 50   | 30.0 | 2,000 | 10  | 50   | N    | 500  | N    | 1,000 | N    | >2,000 |
| 08510990 | 17   | 2.00   | .10   | .15   | .050  | 10   | 1.0  | 1,000 | 20  | 100  | N    | 15   | N    | 100   | N    | 500    |
| 08511000 | 17   | >20.00 | .10   | .20   | .020  | 20   | 30.0 | 5,000 | N   | 50   | N    | 200  | N    | 1,000 | N    | 2,000  |
| 08511010 | 16   | 20.00  | .30   | .50   | .030  | 20   | 7.0  | 7,000 | 10  | 30   | N    | 100  | N    | 300   | N    | >2,000 |
| 08511020 | 16   | 1.50   | .15   | .20   | .010  | <10  | N    | <200  | 30  | 30   | N    | 5    | N    | 20    | N    | 300    |
| 08511030 | 16   | .50    | .10   | .20   | .005  | N    | N    | 200   | 30  | 100  | N    | N    | N    | 15    | N    | 50     |
| 08511040 | 16   | 2.00   | .07   | .15   | .015  | 10   | .7   | 500   | 30  | 70   | N    | 10   | N    | 150   | N    | 300    |
| 08511050 | 16   | 5.00   | .10   | .20   | .015  | 15   | 5.0  | 1,000 | 20  | 70   | N    | 50   | N    | 200   | N    | 1,000  |
| 08511060 | 16   | >20.00 | .05   | .10   | .020  | 30   | 50.0 | 7,000 | 10  | 50   | N    | 200  | N    | 1,000 | N    | 2,000  |
| 08511070 | 16   | 2.00   | .10   | .15   | .010  | 10   | .7   | 300   | 20  | 50   | N    | 15   | N    | 100   | N    | 500    |
| 08511080 | 16   | .70    | .10   | .20   | .007  | 15   | N    | N     | 20  | 70   | N    | 5    | N    | 30    | N    | 100    |
| 08511090 | 16   | .50    | .10   | .15   | .020  | <10  | N    | N     | 30  | 70   | N    | N    | N    | 20    | N    | 50     |
| 08511100 | 16   | .10    | .10   | .20   | .010  | <10  | N    | N     | 20  | 70   | N    | N    | N    | 5     | N    | 20     |
| 08511110 | 16   | 20.00  | .20   | .70   | .300  | 50   | 7.0  | 5,000 | 30  | 100  | <1.0 | 30   | 30   | 500   | N    | 700    |
| 08511130 | 16   | >20.00 | .15   | .50   | .050  | 50   | 7.0  | 2,000 | 10  | 70   | <1.0 | 30   | N    | 300   | N    | 500    |
| 08511150 | 16   | 20.00  | .05   | .10   | .050  | 50   | 5.0  | 3,000 | N   | 50   | <1.0 | 30   | N    | 200   | N    | 500    |
| 08511160 | 16   | >20.00 | .03   | .07   | .070  | 20   | 3.0  | 7,000 | N   | 100  | <1.0 | 20   | N    | 150   | N    | 700    |
| 08511170 | 16   | 7.00   | .07   | .15   | .030  | 10   | .5   | 2,000 | 15  | 20   | <1.0 | N    | N    | 70    | N    | 100    |
| 08511190 | 16   | 5.00   | .70   | 1.00  | .020  | 30   | .5   | <200  | 15  | 30   | N    | N    | N    | 70    | N    | 30     |
| 08511200 | 16   | 1.50   | .05   | .10   | .050  | <10  | N    | N     | 10  | 100  | N    | N    | N    | 50    | N    | 20     |
| 08511210 | 16   | >20.00 | .02   | .05   | .020  | 20   | 7.0  | 5,000 | N   | 30   | N    | 20   | N    | 300   | N    | 200    |
| 08511220 | 16   | >20.00 | .50   | 1.00  | .015  | 50   | 10.0 | 2,000 | N   | 30   | N    | 70   | N    | 700   | N    | 100    |
| 08511230 | 16   | 20.00  | .20   | .20   | .200  | 50   | 15.0 | 1,000 | 20  | 70   | 2.0  | 50   | 30   | 300   | N    | 150    |
| 08511240 | 16   | 20.00  | .30   | .15   | .300  | 50   | 1.0  | 700   | 50  | 100  | 3.0  | 30   | 50   | 200   | N    | 100    |
| 08511250 | 16   | 5.00   | 1.00  | .15   | .700  | 50   | N    | N     | 200 | 100  | 3.0  | 15   | 150  | 100   | 20   | 300    |
| 08511260 | 16   | 10.00  | 1.00  | .20   | .500  | 50   | .5   | N     | 200 | 100  | 3.0  | 7    | 100  | 100   | N    | 70     |
| 08511270 | 16   | 5.00   | .50   | .30   | .200  | 20   | N    | 200   | 70  | 50   | 1.5  | 5    | 20   | 70    | N    | 30     |

| Sample   | S-NB | S-t.I | S-PB  | S-SB | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN  | S-ZR   | AA-ZN |
|----------|------|-------|-------|------|------|------|------|-----|-----|-------|--------|-------|
| 08510880 | N    | 20    | 20    | N    | N    | N    | N    | 30  | N   | N     | 30     | 15    |
| 08510890 | N    | 5     | <10   | V    | N    | N    | N    | N   | N   | N     | N      | 5     |
| 08510900 | N    | 20    | 30    | V    | N    | N    | N    | 10  | N   | N     | N      | 25    |
| 08510910 | N    | 7     | N     | V    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08510920 | N    | 10    | 10    | N    | N    | N    | N    | 15  | N   | N     | N      | 5     |
| 08510930 | N    | 7     | <10   | N    | N    | N    | N    | N   | N   | N     | N      | 5     |
| 08510940 | N    | 7     | 10    | V    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08510950 | N    | 10    | 15    | V    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08510960 | N    | 20    | 150   | N    | N    | N    | N    | 20  | N   | N     | N      | 50    |
| 08510970 | N    | 300   | 1,000 | 100  | N    | N    | N    | 15  | N   | 200   | N      | 180   |
| 08510980 | N    | 1,000 | 5,000 | 200  | N    | N    | N    | 300 | N   | 1,000 | N      | 650   |
| 08510990 | N    | 50    | 70    | V    | N    | N    | N    | 30  | N   | N     | 15     | 25    |
| 08511000 | N    | 700   | 1,500 | V    | N    | N    | N    | 50  | N   | 500   | N      | 150   |
| 08511010 | N    | 500   | 200   | V    | N    | N    | N    | 30  | N   | N     | 50     | 100   |
| 08511020 | N    | 15    | 20    | V    | N    | N    | N    | N   | N   | N     | N      | 15    |
| 08511030 | N    | 7     | N     | N    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08511040 | N    | 50    | 70    | V    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08511050 | N    | 100   | 300   | N    | N    | N    | N    | 20  | N   | N     | N      | 75    |
| 08511060 | N    | 500   | 1,500 | V    | N    | N    | N    | 15  | N   | N     | 30     | 75    |
| 08511070 | N    | 30    | 70    | N    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08511080 | N    | 10    | 20    | N    | N    | N    | N    | N   | N   | N     | N      | 10    |
| 08511090 | N    | 7     | 10    | V    | N    | N    | N    | N   | N   | N     | N      | 5     |
| 08511100 | N    | 5     | <10   | V    | N    | N    | N    | N   | N   | N     | N      | 5     |
| 08511110 | N    | 150   | 200   | V    | N    | N    | N    | 50  | N   | <200  | 70     | 70    |
| 08511130 | N    | 150   | 150   | V    | N    | N    | N    | 10  | N   | 200   | 50     | 65    |
| 08511150 | N    | 150   | 300   | V    | N    | N    | N    | 10  | 10  | 200   | 100    | 145   |
| 08511160 | N    | 100   | 200   | V    | N    | N    | N    | 15  | 15  | 300   | 150    | 130   |
| 08511170 | N    | 15    | 30    | V    | N    | N    | N    | N   | N   | N     | 15     | 30    |
| 08511190 | N    | 15    | 100   | V    | N    | N    | N    | N   | N   | N     | 100    | 20    |
| 08511200 | N    | 10    | 15    | N    | N    | N    | N    | N   | N   | N     | 500    | 5     |
| 08511210 | N    | 70    | 100   | N    | N    | N    | N    | N   | N   | 200   | 10     | 60    |
| 08511220 | N    | 200   | 200   | V    | N    | N    | N    | N   | N   | 700   | N      | 385   |
| 08511230 | N    | 150   | 200   | V    | 5    | N    | N    | 50  | N   | N     | 150    | 110   |
| 08511240 | N    | 100   | 200   | V    | 7    | N    | N    | 70  | 10  | N     | 200    | 30    |
| 08511250 | <20  | 50    | 70    | N    | 10   | N    | N    | 150 | 15  | N     | 150    | 5     |
| 08511260 | <20  | 30    | 200   | V    | 7    | N    | N    | 100 | 15  | N     | 150    | 15    |
| 08511270 | N    | 15    | 100   | V    | N    | N    | N    | 30  | 15  | N     | >1,000 | 25    |

| Sample   | FORM | S-FEZ  | S-MGX | S-CAZ | S-TIZ | S-MN | S-AG | S-AS  | S-B | S-BA | S-BE | S-CO | S-CR | S-CU  | S-LA | S-MO |
|----------|------|--------|-------|-------|-------|------|------|-------|-----|------|------|------|------|-------|------|------|
| 08511280 | 16   | 5.00   | 1.00  | .10   | .500  | 30   | N    | 200   | 100 | 150  | 2.0  | 20   | 150  | 100   | N    | 100  |
| 08511290 | 16   | >5.00  | .07   | .07   | .100  | 20   | .5   | 200   | 50  | 70   | <1.0 | 5    | 10   | 100   | N    | 15   |
| 08511300 | 16   | 5.00   | .15   | .10   | .100  | 20   | .5   | 500   | 50  | 100  | 1.0  | 15   | 30   | 70    | N    | 30   |
| 08511310 | 16   | 2.00   | .10   | .15   | .070  | 15   | N    | 200   | 30  | 100  | <1.0 | 7    | 15   | 50    | N    | 20   |
| 08511320 | 16   | 5.00   | .30   | .15   | .300  | 30   | .5   | 300   | 70  | 100  | 2.0  | 20   | 100  | 150   | N    | 50   |
| 08511330 | 16   | 5.00   | .30   | .30   | .200  | 20   | .5   | 200   | 50  | 100  | 1.0  | 15   | 70   | 100   | N    | 30   |
| 08511340 | 16   | 20.00  | .05   | .05   | .050  | 30   | 2.0  | 1,500 | 20  | 70   | 1.0  | 30   | N    | 700   | N    | 50   |
| 08511350 | 16   | 10.00  | .05   | .07   | .030  | 20   | N    | 1,000 | 20  | 70   | <1.0 | 10   | 10   | 100   | N    | 20   |
| 08511360 | 16   | 7.00   | .07   | .07   | .100  | 15   | N    | 500   | 20  | 50   | <1.0 | 7    | 10   | 50    | N    | 15   |
| 08511370 | 16   | 1.50   | .10   | .20   | .050  | 10   | N    | N     | 30  | 70   | N    | 5    | 15   | 15    | N    | 15   |
| 08511380 | 16   | 3.00   | .50   | .15   | .300  | 50   | N    | N     | 50  | 150  | <1.0 | 20   | 70   | 50    | N    | 50   |
| 08511390 | 16   | 7.00   | .30   | .20   | .200  | 30   | N    | 300   | 50  | 150  | 1.5  | 15   | 50   | 100   | N    | 50   |
| 08511400 | 16   | 10.00  | .10   | .10   | .100  | 50   | .5   | 300   | 20  | 100  | <1.0 | 15   | 20   | 100   | N    | 50   |
| 08511410 | 16   | >20.00 | .15   | .07   | .100  | 30   | 7.0  | 2,000 | 15  | 50   | 1.5  | 50   | 30   | 700   | N    | 200  |
| 08511420 | 16   | 20.00  | .20   | .10   | .150  | 50   | 5.0  | 1,500 | 50  | 70   | 2.0  | 50   | 70   | 300   | N    | 200  |
| 08511430 | 16   | 20.00  | .10   | .07   | .050  | 100  | 5.0  | 1,000 | 20  | 30   | N    | 30   | 10   | 500   | N    | 100  |
| 08511440 | 16   | 15.00  | .02   | .07   | .002  | 15   | 1.5  | 1,500 | N   | 20   | N    | N    | N    | 150   | N    | 20   |
| 08511450 | 16   | 20.00  | .07   | .10   | .030  | 20   | 1.5  | 700   | 10  | 30   | N    | 10   | N    | 150   | N    | 50   |
| 08511470 | 16   | 20.00  | .05   | .15   | .010  | 50   | 2.0  | 1,000 | 10  | 20   | N    | 15   | N    | 700   | N    | 50   |
| 08511480 | 16   | 5.00   | .07   | .20   | .007  | 15   | N    | <200  | 15  | N    | N    | N    | N    | >0    | N    | 20   |
| 08511490 | 16   | 5.00   | .07   | .10   | .007  | 15   | 2.0  | 200   | 15  | N    | N    | 15   | N    | 700   | N    | 50   |
| 08511500 | 16   | 20.00  | .05   | .07   | .020  | 70   | 3.0  | 1,000 | N   | 30   | N    | 30   | 20   | 500   | N    | 50   |
| 08511510 | 34   | >20.00 | .03   | .05   | .010  | 70   | 5.0  | 500   | N   | 30   | N    | 20   | N    | 1,000 | N    | 10   |
| 08511520 | 15   | 20.00  | .10   | .15   | .070  | 50   | 3.0  | N     | 20  | 30   | <1.0 | 7    | 20   | 200   | N    | 20   |
| 08511530 | 15   | >20.00 | .15   | .15   | .300  | 50   | 3.0  | 700   | 30  | 100  | 1.0  | 50   | 100  | 150   | N    | 50   |
| 08511540 | 15   | 7.00   | .15   | .10   | .150  | 30   | N    | N     | 30  | 500  | 1.0  | 10   | 30   | 70    | N    | 10   |
| 08511550 | 15   | 15.00  | .15   | .10   | .200  | 50   | N    | N     | 30  | 100  | 2.0  | 10   | 70   | 100   | 20   | 30   |
| 08511560 | 15   | 15.00  | .20   | .10   | .500  | 50   | N    | N     | 50  | 200  | 3.0  | 20   | 100  | 150   | 20   | 10   |
| 08511570 | 15   | 7.00   | .50   | .30   | .500  | 50   | N    | N     | 50  | 500  | <1.0 | 20   | 100  | 100   | 30   | 20   |
| 08511580 | 15   | 10.00  | .50   | .15   | .500  | 50   | N    | N     | 50  | 700  | <1.0 | 20   | 100  | 70    | 30   | 15   |
| 08511590 | 15   | 7.00   | .50   | .15   | .500  | 50   | N    | N     | 50  | 500  | 1.0  | 15   | 50   | 50    | N    | 10   |
| 08511600 | 15   | 3.00   | .50   | .20   | .200  | 50   | N    | N     | 50  | 500  | 1.5  | 15   | 50   | 50    | N    | 5    |
| 08511610 | 14   | 5.00   | 1.00  | .20   | .500  | 50   | N    | N     | 100 | 700  | 1.5  | 20   | 100  | 100   | 30   | N    |
| 08511620 | 14   | 3.00   | 1.00  | .10   | .200  | 30   | N    | N     | 100 | 700  | 2.0  | 15   | 50   | 30    | N    | N    |
| 08511630 | 14   | 3.00   | .50   | .10   | .200  | 30   | N    | N     | 70  | 300  | 2.0  | 15   | 50   | 20    | N    | N    |
| 08511640 | 14   | 3.00   | .50   | .07   | .150  | 50   | N    | N     | 70  | 200  | 2.0  | 15   | 50   | 10    | N    | N    |
| 08511650 | 14   | 7.00   | .70   | .05   | .100  | 50   | N    | N     | 100 | 100  | 3.0  | 15   | 30   | 50    | N    | 10   |
| 08511660 | 13   | 2.00   | .50   | .10   | .150  | 50   | N    | N     | 70  | 300  | 2.0  | 10   | 30   | 20    | N    | N    |
| 08511670 | 13   | 1.50   | .20   | .05   | .150  | 20   | N    | N     | 50  | 200  | 1.0  | 7    | 30   | 20    | N    | N    |
| 08511680 | 13   | 1.00   | .15   | .07   | .100  | 20   | N    | N     | 50  | 200  | 1.0  | 5    | 15   | 7     | N    | N    |
| 08511690 | 13   | 2.00   | .20   | .05   | .200  | 30   | N    | N     | 70  | 150  | 1.0  | 15   | 30   | 30    | 20   | N    |
| 08511700 | 13   | 1.00   | .30   | .07   | .200  | 30   | N    | N     | 50  | 700  | 1.0  | 7    | 30   | 7     | 20   | N    |
| 08511710 | 13   | .50    | .10   | .05   | .150  | 15   | N    | N     | 15  | 500  | N    | N    | 10   | 5     | N    | N    |
| 08511720 | 13   | 1.00   | .20   | .10   | .200  | 20   | N    | N     | 20  | 700  | <1.0 | N    | 20   | 5     | 20   | N    |
| 08511730 | 13   | 1.00   | .20   | .07   | .200  | 15   | N    | N     | 20  | 500  | <1.0 | 5    | 20   | 5     | 20   | N    |

| Sample   | S-ND | S-NI | S-PB  | S-S3 | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|------|------|-------|------|------|------|------|-----|-----|------|------|-------|
| 085I1280 | N    | 70   | 100   | N    | 7    | N    | N    | 100 | 15  | N    | 100  | 10    |
| 085I1290 | N    | 20   | 70    | V    | N    | N    | N    | 10  | 10  | N    | 200  | 15    |
| 085I1300 | N    | 20   | 100   | N    | N    | N    | N    | 20  | N   | 200  | 100  | 55    |
| 085I1310 | N    | 15   | 30    | V    | N    | N    | N    | N   | N   | N    | 50   | 15    |
| 085I1320 | N    | 50   | 100   | V    | <5   | N    | N    | 70  | <10 | N    | 100  | 20    |
| 085I1330 | N    | 50   | 100   | V    | N    | N    | N    | 50  | N   | N    | 70   | 10    |
| 085I1340 | N    | 150  | 150   | V    | N    | N    | N    | 15  | N   | N    | 150  | 50    |
| 085I1350 | N    | 30   | 70    | V    | N    | N    | N    | N   | N   | N    | 100  | --    |
| 085I1360 | N    | 15   | 50    | V    | N    | N    | N    | 10  | N   | N    | 50   | 20    |
| 085I1370 | N    | 10   | 15    | N    | N    | N    | N    | N   | N   | N    | 150  | 5     |
| 085I1380 | N    | 50   | 50    | V    | <5   | N    | N    | 100 | N   | N    | 70   | 10    |
| 085I1390 | N    | 50   | 50    | V    | <5   | N    | N    | 50  | N   | N    | 100  | 25    |
| 085I1400 | N    | 50   | 100   | V    | N    | N    | N    | 15  | N   | N    | 100  | 35    |
| 085I1410 | N    | 150  | 500   | V    | N    | N    | N    | 50  | N   | N    | 15   | 60    |
| 085I1420 | N    | 150  | 1,000 | N    | N    | N    | N    | 100 | N   | N    | 50   | 65    |
| 085I1430 | N    | 100  | 100   | V    | N    | N    | N    | 15  | N   | N    | N    | 70    |
| 085I1440 | N    | 7    | 150   | N    | N    | N    | N    | N   | N   | N    | N    | 110   |
| 085I1450 | N    | 15   | 200   | N    | N    | N    | N    | N   | N   | N    | N    | 55    |
| 085I1470 | N    | 70   | 700   | V    | N    | N    | N    | N   | N   | N    | N    | 75    |
| 085I1480 | N    | 10   | 300   | N    | N    | N    | N    | N   | N   | N    | N    | 50    |
| 085I1490 | N    | 50   | 150   | N    | N    | N    | N    | N   | N   | N    | N    | 70    |
| 085I1500 | N    | 150  | 300   | V    | N    | N    | N    | N   | N   | 200  | N    | --    |
| 085I1510 | N    | 50   | 1,500 | V    | N    | N    | N    | N   | N   | N    | N    | 105   |
| 085I1520 | N    | 20   | 700   | V    | N    | N    | N    | 50  | N   | N    | 15   | 125   |
| 085I1530 | N    | 150  | 700   | V    | N    | N    | N    | 50  | N   | N    | 30   | 200   |
| 085I1540 | N    | 30   | 300   | N    | N    | N    | N    | 30  | N   | N    | 100  | 20    |
| 085I1550 | N    | 30   | 700   | V    | N    | N    | N    | 50  | N   | N    | 70   | 15    |
| 085I1560 | N    | 50   | 200   | N    | 5    | N    | N    | 50  | 15  | N    | 70   | 10    |
| 085I1570 | <20  | 50   | 150   | V    | 7    | N    | N    | 100 | 15  | N    | 150  | 10    |
| 085I1580 | <20  | 50   | 150   | V    | 7    | N    | N    | 100 | 20  | N    | 200  | 20    |
| 085I1590 | <20  | 30   | 100   | V    | 5    | N    | N    | 100 | 15  | N    | 150  | 10    |
| 085I1600 | N    | 30   | 50    | V    | 5    | N    | N    | 70  | 10  | N    | 150  | 5     |
| 085I1610 | <20  | 50   | 30    | V    | 10   | N    | N    | 150 | 15  | N    | 150  | 5     |
| 085I1620 | N    | 15   | 10    | V    | <5   | N    | N    | 70  | 10  | N    | 200  | 5     |
| 085I1630 | N    | 15   | N     | V    | <5   | N    | N    | 50  | 15  | N    | 500  | <5    |
| 085I1640 | N    | 10   | N     | V    | N    | N    | N    | 50  | <10 | N    | 150  | 5     |
| 085I1650 | N    | 20   | 20    | V    | N    | N    | N    | 50  | <10 | N    | 150  | 10    |
| 085I1660 | N    | 10   | N     | N    | N    | N    | N    | 30  | <10 | N    | 200  | 5     |
| 085I1670 | N    | 10   | N     | N    | N    | N    | N    | 50  | <10 | N    | 200  | 5     |
| 085I1680 | N    | 7    | <10   | V    | N    | N    | N    | 20  | N   | N    | 200  | 5     |
| 085I1690 | N    | 15   | 10    | N    | N    | N    | N    | 70  | N   | N    | 100  | 5     |
| 085I1700 | N    | 10   | 10    | V    | <5   | N    | N    | 70  | 10  | N    | 200  | <5    |
| 085I1710 | N    | 7    | 10    | V    | N    | N    | N    | 50  | 10  | N    | 300  | <5    |
| 085I1720 | <20  | 5    | 20    | V    | N    | N    | N    | 50  | 15  | N    | 500  | 5     |
| 085I1730 | <20  | 5    | 15    | N    | N    | N    | N    | 50  | 15  | N    | 500  | <5    |

| Sample   | FORM | S-FEZ | S-MGX | S-CAZ | S-TIX | S-MN | S-AG | S-AS | S-B | S-BA  | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO |
|----------|------|-------|-------|-------|-------|------|------|------|-----|-------|------|------|------|------|------|------|
| 08511740 | 13   | 2.00  | .50   | .10   | .200  | 15   | N    | N    | 30  | 500   | 2.0  | 10   | 15   | 5    | N    | N    |
| 08511750 | 13   | 5.00  | .20   | .35   | .150  | 20   | N    | N    | 50  | 500   | 2.0  | 20   | 10   | 70   | N    | 20   |
| 08511760 | 13   | 10.00 | .20   | .15   | .300  | 30   | N    | N    | 50  | 1,000 | 1.5  | 15   | 30   | 50   | N    | 30   |
| 08511770 | 13   | 3.00  | .20   | .35   | .150  | 10   | N    | N    | 30  | 700   | 1.0  | 7    | N    | 15   | N    | 15   |
| 08511780 | 13   | 2.00  | .20   | .37   | .200  | 20   | N    | N    | 15  | 700   | 1.0  | 5    | 10   | 7    | N    | 5    |
| 08511790 | 13   | 1.50  | .30   | .15   | .300  | 20   | N    | N    | 20  | 700   | 2.0  | 5    | 10   | 7    | 20   | N    |
| 08511800 | 13   | 1.00  | .20   | .35   | .200  | 15   | N    | N    | 15  | 500   | <1.0 | 7    | 10   | 5    | 20   | N    |
| 08511810 | 13   | 2.00  | .30   | .10   | .200  | 30   | N    | N    | 30  | 1,000 | 3.0  | 10   | 10   | 5    | 30   | N    |
| 08511820 | 13   | 5.00  | .50   | .15   | .300  | 30   | N    | N    | 50  | 1,000 | 2.0  | 15   | 10   | 10   | 50   | N    |
| 08511830 | 13   | 5.00  | 1.00  | .10   | .200  | 30   | N    | N    | 70  | 700   | 5.0  | 15   | 10   | 10   | 20   | N    |
| 08511840 | 13   | 2.00  | .30   | .37   | .200  | 20   | N    | N    | 30  | 1,000 | 1.5  | 10   | 10   | 10   | 30   | N    |
| 08511850 | 13   | 2.00  | .50   | .35   | .150  | 20   | N    | N    | 50  | 1,000 | 3.0  | 7    | 10   | 7    | 20   | N    |
| 08511860 | 13   | 1.50  | .30   | .35   | .200  | 20   | N    | N    | 30  | 1,000 | 2.0  | 7    | 15   | 10   | 20   | N    |
| 08511870 | 13   | 1.50  | .20   | .35   | .300  | 10   | N    | N    | 30  | 500   | 1.5  | 7    | 10   | 7    | 30   | N    |
| 08511880 | 13   | 1.00  | .15   | <.35  | .200  | 15   | N    | N    | 20  | 700   | 1.0  | 5    | 10   | 7    | 20   | N    |
| 08511390 | 13   | 1.00  | .30   | .37   | .300  | 20   | N    | N    | 30  | 500   | 1.5  | 10   | 15   | 5    | 50   | N    |
| 08511900 | 13   | 5.00  | .30   | .15   | .300  | 30   | N    | N    | 30  | 500   | 1.5  | 15   | 10   | 20   | 30   | N    |
| 08511910 | 13   | 5.00  | .30   | .37   | .150  | 15   | N    | N    | 50  | 500   | 5.0  | 15   | 20   | 7    | N    | N    |
| 08511920 | 13   | 2.00  | .10   | .35   | .100  | 10   | N    | N    | 15  | 100   | 2.0  | 7    | 10   | 5    | 20   | N    |
| 08511930 | 13   | 5.00  | .20   | .35   | .100  | 10   | N    | N    | 70  | 70    | 7.0  | 5    | 10   | 5    | N    | N    |
| 08511940 | 13   | 5.00  | .30   | .35   | .150  | 10   | N    | N    | 70  | 100   | 10.0 | 7    | 15   | 20   | N    | N    |
| 08511950 | 13   | 2.00  | .20   | .37   | .150  | 20   | N    | N    | 20  | 150   | 3.0  | 5    | 10   | 30   | N    | 5    |

| Sample   | S-Wd | S-NI | S-PB | S-S3 | S-SC | S-SN | S-SR | S-V | S-Y | S-ZN | S-ZR   | AA-ZN |
|----------|------|------|------|------|------|------|------|-----|-----|------|--------|-------|
| 08511740 | <20  | 7    | 20   | V    | N    | N    | N    | 50  | 15  | N    | 500    | 5     |
| 08511750 | N    | 15   | 100  | V    | N    | N    | N    | 50  | 20  | N    | 500    | 15    |
| 08511760 | <20  | 20   | 100  | N    | N    | N    | N    | 50  | 30  | N    | 700    | 15    |
| 08511770 | <20  | 7    | 30   | V    | N    | N    | N    | 50  | 15  | N    | 500    | 5     |
| 08511780 | <20  | 5    | 20   | N    | N    | N    | N    | 50  | 20  | N    | 500    | 5     |
| 08511790 | <20  | 5    | 20   | V    | N    | N    | N    | 50  | 30  | N    | 1,000  | <5    |
| 08511800 | <20  | 5    | 15   | V    | N    | N    | N    | 50  | 20  | N    | 500    | <5    |
| 08511810 | <20  | 5    | 15   | V    | N    | N    | N    | 50  | 20  | N    | 500    | <5    |
| 08511820 | <20  | 10   | 30   | N    | N    | N    | N    | 70  | 30  | N    | 500    | <5    |
| 08511830 | <20  | 7    | 20   | V    | N    | N    | N    | 50  | 20  | N    | 700    | 5     |
| 08511840 | <20  | 5    | 30   | V    | N    | N    | N    | 30  | 20  | N    | 700    | <5    |
| 08511850 | N    | 5    | 20   | N    | N    | N    | N    | 15  | 20  | N    | 700    | 10    |
| 08511860 | <20  | 5    | 50   | N    | N    | N    | N    | 20  | 20  | N    | 1,000  | 10    |
| 08511870 | N    | 5    | 20   | V    | N    | N    | N    | 20  | 20  | N    | >1,000 | <5    |
| 08511880 | N    | 5    | 20   | V    | N    | N    | N    | 20  | 15  | N    | 1,000  | <5    |
| 08511890 | N    | 7    | 20   | V    | N    | N    | N    | 30  | 20  | N    | 1,000  | <5    |
| 08511900 | N    | 10   | 100  | N    | N    | N    | N    | 15  | 30  | N    | >1,000 | 15    |
| 08511910 | N    | 7    | 20   | V    | N    | N    | N    | 70  | 30  | N    | >1,000 | <5    |
| 08511920 | N    | N    | N    | V    | N    | N    | N    | 15  | 10  | N    | 1,000  | <5    |
| 08511930 | N    | N    | <10  | V    | N    | N    | N    | 15  | 10  | N    | 500    | <5    |
| 08511940 | N    | N    | 10   | V    | N    | N    | N    | 20  | 20  | N    | 1,000  | <5    |
| 08511950 | N    | 5    | >10  | N    | N    | N    | N    | 15  | 15  | N    | >1,000 | <5    |

TABLE 13.--Spectrographic analyses of insoluble-residue samples from drill hole no. 103.

| Sample   | FORM | S-FE%  | S-MG% | S-CA% | S-Ti% | S-MN  | S-AG | S-AS   | S-B | S-BA | S-BE | S-CD | S-CO | S-CR  | S-CU | S-LA |
|----------|------|--------|-------|-------|-------|-------|------|--------|-----|------|------|------|------|-------|------|------|
| 10310750 | 17   | .15    | <.02  | <.05  | .007  | 10    | N    | N      | 10  | N    | N    | N    | N    | N     | <5   | N    |
| 10310760 | 17   | 1.50   | .10   | .15   | .007  | 20    | N    | N      | 15  | 20   | N    | N    | N    | N     | 15   | N    |
| 10310770 | 17   | 5.00   | .05   | .05   | .010  | 100   | <.5  | N      | 20  | N    | N    | <20  | 7    | 150   | 50   | N    |
| 10310780 | 17   | 3.00   | .05   | .07   | .200  | 500   | N    | N      | 20  | 20   | N    | <20  | 5    | 150   | 30   | N    |
| 10310790 | 17   | 2.00   | .10   | .05   | .050  | 70    | N    | N      | 20  | 30   | <1   | N    | 7    | 30    | 50   | N    |
| 10310800 | 17   | 5.00   | .15   | .07   | .030  | 100   | <.5  | N      | 30  | 30   | <1   | 100  | 7    | 200   | 50   | N    |
| 10310810 | 17   | 1.50   | .03   | .07   | .200  | 500   | N    | N      | 15  | N    | N    | 30   | <5   | 150   | 30   | N    |
| 10310820 | 17   | 3.00   | .02   | .07   | .003  | 30    | N    | N      | 10  | N    | N    | 50   | N    | 20    | 20   | N    |
| 10310830 | 17   | 2.00   | .03   | .10   | .030  | 70    | N    | N      | 10  | 50   | N    | N    | N    | N     | 20   | N    |
| 10310840 | 17   | 3.00   | .05   | .07   | .200  | 500   | N    | N      | 15  | 20   | N    | 50   | N    | 300   | 30   | N    |
| 10310850 | 17   | 2.00   | .20   | .07   | .100  | 200   | <.5  | N      | 20  | 30   | 1    | 100  | 10   | 100   | 70   | N    |
| 10310860 | 17   | 10.00  | .05   | .07   | .005  | 50    | 1.0  | 200    | N   | N    | N    | N    | 10   | 30    | 70   | N    |
| 10310870 | 17   | 2.00   | .03   | .07   | .003  | 10    | <.5  | N      | 10  | N    | N    | N    | 5    | <10   | 20   | N    |
| 10310880 | 17   | 15.00  | .05   | .05   | .005  | 100   | 1.5  | 1,000  | N   | N    | N    | <20  | 10   | 15    | 100  | N    |
| 10310890 | 17   | 2.00   | .03   | .07   | .007  | 50    | N    | N      | 15  | N    | N    | 30   | N    | 20    | 30   | N    |
| 10310900 | 17   | .50    | .05   | .10   | .005  | 15    | N    | N      | 30  | N    | N    | N    | N    | 20    | 5    | N    |
| 10310910 | 17   | 1.00   | .05   | .10   | .005  | 20    | N    | N      | 20  | N    | N    | N    | N    | 50    | 15   | N    |
| 10310920 | 17   | .50    | .05   | .15   | .003  | 10    | N    | N      | 20  | N    | N    | N    | N    | N     | 5    | N    |
| 10310930 | 17   | 1.50   | .02   | .10   | .010  | 70    | N    | N      | 20  | N    | N    | 70   | N    | N     | 20   | N    |
| 10310940 | 17   | 20.00  | .05   | .10   | .700  | 2,000 | 1.5  | 700    | 10  | N    | N    | N    | 20   | 1,500 | 200  | N    |
| 10310950 | 17   | 15.00  | .05   | .07   | .070  | 500   | 1.0  | 500    | 10  | N    | N    | N    | 15   | 500   | 150  | N    |
| 10310960 | 17   | >20.00 | .02   | .05   | .050  | 50    | 2.0  | 1,000  | N   | N    | N    | N    | 15   | 150   | 150  | N    |
| 10310970 | 17   | 1.00   | .07   | .15   | .005  | 20    | N    | N      | 15  | N    | N    | N    | N    | 15    | 15   | N    |
| 10310980 | 17   | .50    | .05   | .15   | .005  | 15    | N    | N      | 10  | N    | N    | N    | N    | 10    | 10   | N    |
| 10310990 | 17   | .70    | .05   | .10   | .050  | 100   | N    | N      | 15  | N    | N    | N    | N    | 20    | 15   | N    |
| 10311000 | 17   | 1.00   | .05   | .15   | .050  | 100   | N    | N      | 20  | N    | N    | N    | N    | 50    | 20   | N    |
| 10311010 | 17   | 1.00   | .05   | .10   | .030  | 100   | N    | N      | 20  | N    | N    | N    | N    | 10    | 15   | N    |
| 10311020 | 17   | 10.00  | .05   | .07   | .200  | 500   | .5   | 300    | 20  | N    | N    | N    | 15   | 100   | 100  | N    |
| 10311030 | 17   | 20.00  | .10   | .07   | .100  | 300   | 2.0  | 2,000  | 20  | 20   | N    | N    | 50   | 100   | 200  | N    |
| 10311040 | 17   | 2.00   | .05   | .07   | .015  | 50    | .5   | 500    | 20  | N    | N    | N    | 5    | <10   | 50   | N    |
| 10311050 | 17   | 5.00   | .03   | .07   | .030  | 100   | .7   | 500    | 20  | N    | N    | N    | 10   | 20    | 50   | N    |
| 10311060 | 17   | 15.00  | .10   | .05   | .050  | 200   | 1.5  | 1,000  | 20  | N    | N    | N    | 20   | 500   | 200  | N    |
| 10311070 | 17   | 3.00   | .05   | .07   | .003  | 50    | .5   | 700    | 20  | N    | N    | N    | 7    | <10   | 30   | N    |
| 10311080 | 17   | 1.50   | .03   | .07   | .003  | 70    | N    | N      | 10  | N    | N    | N    | N    | N     | 15   | N    |
| 10311090 | 14   | 5.00   | .03   | .07   | .002  | 20    | .5   | 500    | 20  | N    | N    | N    | 5    | N     | 30   | N    |
| 10311100 | 16   | 5.00   | .05   | .07   | .005  | 30    | .7   | 500    | 30  | N    | N    | N    | 20   | <10   | 200  | N    |
| 10311110 | 16   | 5.00   | <.02  | <.05  | <.002 | 20    | .7   | 1,000  | 20  | N    | N    | N    | 15   | N     | 70   | N    |
| 10311120 | 16   | 5.00   | <.02  | .05   | <.002 | 10    | 1.5  | 1,000  | 20  | N    | N    | N    | 7    | N     | 50   | N    |
| 10311130 | 16   | 7.00   | .02   | .05   | <.002 | 300   | 1.0  | 1,000  | 20  | N    | N    | N    | 20   | <10   | 100  | N    |
| 10311140 | 16   | 15.00  | .05   | .07   | .002  | 70    | 3.0  | 3,000  | 20  | N    | N    | N    | 50   | <10   | 200  | N    |
| 10311150 | 16   | >20.00 | <.02  | <.05  | <.002 | 100   | 10.0 | 10,000 | N   | N    | N    | N    | 15   | N     | 300  | N    |
| 10311160 | 16   | 10.00  | .05   | .07   | .002  | 30    | 2.0  | 1,500  | 20  | N    | N    | N    | 20   | N     | 150  | N    |
| 10311170 | 16   | 1.00   | .02   | .05   | .005  | 30    | N    | N      | 20  | N    | N    | N    | N    | <10   | 20   | N    |
| 10311180 | 16   | 5.00   | <.02  | .05   | .003  | 50    | .7   | 1,000  | 20  | N    | N    | N    | 10   | 100   | 500  | N    |
| 10311190 | 16   | 2.00   | .05   | .07   | .005  | 20    | .7   | 300    | 15  | N    | N    | N    | 10   | N     | 150  | N    |

| Sample   | S-MO  | S-NE | S-NI | S-PB | S-SC | S-SR | S-V | S-W    | S-Y | S-ZN | S-ZR | AA-ZN |
|----------|-------|------|------|------|------|------|-----|--------|-----|------|------|-------|
| 10310750 | N     | N    | N    | N    | N    | N    | N   | N      | N   | N    | 15   | <5    |
| 10310760 | 50    | N    | 7    | 10   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310770 | 50    | N    | 30   | 20   | N    | N    | N   | N      | N   | N    | 15   | --    |
| 10310780 | 30    | N    | 30   | 10   | N    | N    | N   | N      | N   | N    | 200  | --    |
| 10310790 | 50    | N    | 20   | <10  | N    | N    | 30  | N      | N   | N    | 20   | 10    |
| 10310800 | 100   | N    | 30   | 15   | N    | N    | 15  | N      | N   | N    | 10   | --    |
| 10310810 | 15    | N    | 10   | N    | N    | N    | N   | N      | N   | N    | 100  | --    |
| 10310820 | 5     | N    | 15   | 20   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310830 | 7     | N    | 10   | 15   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310840 | 15    | N    | 15   | 10   | N    | N    | N   | N      | N   | N    | 100  | --    |
| 10310850 | 100   | N    | 50   | 20   | N    | N    | 50  | N      | N   | N    | 70   | --    |
| 10310860 | 15    | N    | 50   | 50   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310870 | 7     | N    | 20   | 30   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310880 | 30    | N    | 70   | 70   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310890 | 7     | N    | 15   | 15   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10310900 | 7     | N    | <5   | N    | N    | N    | N   | N      | N   | N    | N    | <5    |
| 10310910 | 10    | N    | 7    | N    | N    | N    | N   | N      | N   | N    | N    | <5    |
| 10310920 | <5    | N    | N    | N    | N    | N    | N   | N      | N   | N    | N    | <5    |
| 10310930 | N     | N    | 7    | N    | N    | N    | N   | N      | N   | N    | N    | 15    |
| 10310940 | 150   | 30   | 200  | 200  | N    | N    | 20  | >1,000 | N   | N    | 300  | --    |
| 10310950 | 70    | N    | 100  | 50   | N    | N    | 15  | 500    | N   | N    | 30   | --    |
| 10310960 | 50    | N    | 50   | 70   | N    | N    | N   | 70     | N   | N    | 15   | --    |
| 10310970 | 10    | N    | 7    | N    | N    | N    | N   | 70     | N   | N    | N    | <5    |
| 10310980 | 20    | N    | 5    | N    | N    | N    | N   | N      | N   | N    | N    | <5    |
| 10310990 | 20    | N    | 7    | N    | N    | N    | N   | N      | N   | N    | 30   | <5    |
| 10311000 | 20    | N    | 7    | N    | N    | N    | N   | N      | N   | N    | 30   | 5     |
| 10311010 | 15    | N    | 5    | N    | N    | N    | N   | N      | N   | N    | 20   | <5    |
| 10311020 | 150   | N    | 50   | 30   | N    | N    | N   | N      | N   | N    | 30   | 15    |
| 10311030 | 700   | N    | 150  | 150  | N    | N    | 20  | N      | N   | <200 | 70   | 170   |
| 10311040 | 70    | N    | 20   | 15   | N    | N    | 20  | N      | N   | N    | N    | 10    |
| 10311050 | 50    | N    | 50   | 50   | N    | N    | <10 | N      | N   | N    | 20   | --    |
| 10311060 | 200   | N    | 150  | 100  | N    | N    | 15  | N      | N   | N    | 10   | --    |
| 10311070 | 70    | N    | 30   | 20   | N    | N    | N   | N      | N   | N    | N    | 5     |
| 10311080 | 15    | N    | 7    | N    | N    | N    | N   | N      | N   | N    | N    | --    |
| 10311090 | 30    | N    | 30   | 20   | N    | N    | N   | N      | N   | N    | N    | <5    |
| 10311100 | 200   | N    | 70   | 70   | N    | N    | 15  | N      | N   | N    | N    | 15    |
| 10311110 | 300   | N    | 50   | 50   | N    | N    | N   | N      | N   | N    | N    | --    |
| 10311120 | 200   | N    | 30   | 70   | N    | N    | N   | N      | N   | N    | N    | 10    |
| 10311130 | 200   | N    | 70   | 70   | N    | N    | N   | N      | N   | N    | N    | 10    |
| 10311140 | 1,000 | N    | 200  | 200  | N    | N    | N   | N      | N   | N    | N    | 25    |
| 10311150 | 300   | N    | 150  | 300  | N    | N    | N   | N      | N   | N    | N    | 45    |
| 10311160 | 150   | N    | 100  | 100  | N    | N    | N   | N      | N   | N    | N    | 10    |
| 10311170 | 20    | N    | 15   | 15   | N    | N    | N   | N      | N   | N    | N    | 10    |
| 10311180 | 100   | N    | 50   | 50   | N    | N    | N   | 70     | N   | N    | N    | 50    |
| 10311190 | 30    | N    | 50   | 50   | N    | N    | N   | 100    | N   | N    | 20   | 15    |



| Sample   | FORM | S-FE% | S-MG% | S-CA% | S-TI% | S-MN | S-AG | S-AS  | S-B | S-BA | S-BE | S-CD | S-CO | S-CR | S-CU | S-LA |
|----------|------|-------|-------|-------|-------|------|------|-------|-----|------|------|------|------|------|------|------|
| 10311200 | 16   | 15.00 | .07   | .10   | .100  | 500  | 2.0  | 2,000 | 20  | N    | N    | N    | 50   | 200  | 300  | N    |
| 10311210 | 16   | 10.00 | .02   | <.05  | .070  | 300  | 2.0  | 2,000 | 10  | N    | N    | N    | 20   | 30   | 200  | N    |
| 10311220 | 16   | 10.00 | .03   | .05   | .030  | 100  | 3.0  | 2,000 | 15  | N    | N    | N    | 30   | 15   | 300  | N    |
| 10311230 | 16   | 10.00 | .07   | .05   | .050  | 150  | 3.0  | 1,500 | 20  | N    | N    | N    | 30   | 100  | 300  | N    |
| 10311240 | 16   | 20.00 | .05   | .07   | <.002 | 100  | 2.0  | 3,000 | 10  | 100  | N    | N    | 30   | 10   | 300  | N    |
| 10311250 | 16   | 20.00 | .03   | <.05  | .015  | 150  | 2.0  | 2,000 | N   | N    | N    | N    | 20   | 30   | 300  | N    |
| 10311260 | 16   | 7.00  | <.02  | <.05  | <.002 | 50   | 1.0  | 700   | N   | N    | N    | N    | N    | <10  | 100  | N    |
| 10311270 | 16   | 10.00 | .07   | .10   | <.002 | 50   | 1.0  | 1,000 | 20  | N    | N    | N    | 10   | 15   | 100  | N    |
| 10311360 | 16   | 10.00 | .05   | .10   | .010  | 200  | 1.0  | N     | N   | 300  | N    | N    | 15   | 20   | 200  | N    |
| 10311370 | 16   | 10.00 | .10   | .20   | .007  | 200  | .5   | 700   | N   | 150  | N    | N    | 15   | 20   | 200  | N    |
| 10311380 | 16   | 1.00  | .02   | .07   | <.002 | 20   | N    | N     | 50  | N    | N    | N    | N    | N    | 10   | N    |
| 10311390 | 16   | 10.00 | .03   | .07   | .030  | 200  | 1.5  | 700   | 20  | 20   | N    | N    | 30   | 50   | 200  | N    |
| 10311460 | 15   | 5.00  | .15   | .10   | .100  | 50   | N    | N     | 70  | 150  | N    | N    | 10   | 15   | 150  | N    |
| 10311470 | 15   | 1.00  | .15   | .20   | .020  | 30   | N    | N     | 50  | 30   | N    | N    | N    | N    | 20   | N    |
| 10311500 | 15   | 5.00  | .20   | .20   | .100  | 30   | N    | N     | 50  | 300  | N    | <20  | 5    | 10   | 150  | N    |
| 10311510 | 15   | 5.00  | .20   | .10   | .200  | 70   | N    | N     | 30  | 300  | N    | N    | 7    | 30   | 30   | N    |
| 10311520 | 15   | 5.00  | .30   | .05   | .300  | 50   | N    | N     | 50  | 500  | 1    | N    | 20   | 70   | 50   | 30   |
| 10311540 | 15   | 2.00  | 1.00  | 1.00  | .300  | 100  | N    | N     | 50  | 700  | N    | N    | 15   | 100  | 15   | 20   |
| 10311550 | 15   | 3.00  | .70   | .10   | .200  | 70   | N    | N     | 50  | 500  | N    | N    | 10   | 70   | 200  | N    |
| 10311560 | 15   | 10.00 | .70   | .07   | .200  | 70   | N    | N     | 70  | 300  | N    | N    | 20   | 70   | 500  | 20   |
| 10311570 | 15   | 7.00  | 1.00  | .10   | .200  | 100  | N    | N     | 100 | 300  | <1   | N    | 20   | 100  | 300  | N    |
| 10311580 | 15   | 5.00  | 1.00  | .15   | .200  | 100  | N    | N     | 150 | 300  | <1   | N    | 15   | 100  | 150  | N    |
| 10311600 | 15   | 5.00  | 1.50  | .30   | .300  | 100  | N    | N     | 150 | 300  | 1    | N    | 20   | 150  | 50   | 20   |
| 10311610 | 15   | 5.00  | 1.50  | .50   | .300  | 100  | N    | N     | 150 | 300  | 1    | N    | 20   | 150  | 50   | N    |
| 10311615 | 15   | 10.00 | 1.50  | 1.50  | .200  | 150  | N    | N     | 150 | 300  | <1   | N    | 30   | 100  | 150  | 20   |

| Sample   | S-MO | S-NB | S-NI | S-PB | S-SC | S-SR | S-V | S-W | S-Y | S-ZN  | S-ZR | AA-ZN |
|----------|------|------|------|------|------|------|-----|-----|-----|-------|------|-------|
| 10311200 | 100  | N    | 200  | 200  | N    | N    | 10  | N   | N   | N     | 100  | --    |
| 10311210 | 50   | N    | 100  | 100  | N    | N    | N   | N   | N   | N     | 50   | 30    |
| 10311220 | 100  | N    | 150  | 200  | N    | N    | N   | N   | N   | N     | 20   | 45    |
| 10311230 | 100  | N    | 150  | 200  | N    | N    | 20  | N   | N   | N     | 15   | --    |
| 10311240 | 50   | N    | 100  | 150  | N    | N    | N   | N   | N   | N     | N    | 45    |
| 10311250 | 70   | N    | 100  | 200  | N    | N    | N   | N   | N   | <200  | N    | --    |
| 10311260 | 20   | N    | 20   | 70   | N    | N    | N   | N   | N   | N     | N    | --    |
| 10311270 | 50   | N    | 50   | 70   | N    | N    | N   | N   | N   | N     | N    | --    |
| 10311360 | 50   | N    | 150  | 100  | N    | N    | N   | N   | N   | N     | N    | --    |
| 10311370 | 50   | N    | 150  | 100  | N    | N    | N   | N   | N   | N     | 30   | --    |
| 10311380 | N    | N    | 15   | N    | N    | N    | N   | N   | N   | N     | N    | <5    |
| 10311390 | 50   | N    | 150  | 200  | N    | N    | N   | N   | N   | N     | N    | 10    |
| 10311460 | <5   | N    | 30   | 15   | N    | N    | 10  | N   | N   | 200   | 30   | 430   |
| 10311470 | N    | N    | 5    | N    | N    | N    | N   | N   | N   | N     | 15   | --    |
| 10311500 | 7    | N    | 20   | 50   | N    | N    | 10  | N   | N   | 2,000 | 50   | --    |
| 10311510 | 5    | N    | 30   | 70   | N    | N    | 20  | N   | N   | 500   | 100  | 370   |
| 10311520 | N    | N    | 50   | 70   | <5   | <100 | 50  | N   | <10 | N     | 150  | 15    |
| 10311540 | N    | N    | 30   | 70   | 5    | <100 | 70  | N   | 10  | N     | 100  | 20    |
| 10311550 | <5   | N    | 30   | 10   | <5   | <100 | 70  | N   | <10 | N     | 150  | 50    |
| 10311560 | 7    | N    | 70   | 20   | <5   | N    | 50  | N   | <10 | N     | 70   | 70    |
| 10311570 | N    | N    | 70   | 20   | 5    | <100 | 70  | N   | <10 | <200  | 100  | 120   |
| 10311580 | N    | N    | 50   | 20   | 5    | N    | 70  | N   | <10 | N     | 70   | 70    |
| 10311600 | N    | N    | 50   | 20   | 7    | <100 | 70  | N   | <10 | N     | 100  | 75    |
| 10311610 | N    | N    | 50   | 20   | 10   | <100 | 100 | N   | 10  | N     | 100  | 50    |
| 10311615 | 10   | N    | 100  | 20   | 7    | <100 | 70  | N   | <10 | N     | 70   | 30    |