

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

GEOCHEMICAL DATA FOR ROCK SAMPLES FROM THE  
OWENS PEAK AND LITTLE LAKE CANYON WILDERNESS STUDY AREAS,  
INYO AND KERN COUNTIES, CALIFORNIA

By

Michael F. Diggles,<sup>1</sup> David E. Detra,<sup>2</sup> David A. Dellinger,<sup>1</sup>  
Gordon W. Day,<sup>2</sup> Kent Goldsmith,<sup>2</sup> Julian C. Gray, Jr.,<sup>2</sup> Allen L. Meier,<sup>2</sup>  
Richard M. O'Leary,<sup>2</sup> Theodore A. Roemer,<sup>2</sup> Katherine A. Romine,<sup>2</sup>  
and Eric P. Welsch<sup>2</sup>

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<sup>1/</sup> 345 Middlefield Road, Menlo Park, California 94025

<sup>2/</sup> 5946 MacIntyre Road, Golden, Colorado 80403

This report is preliminary and  
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## CONTENTS

	Page
STUDIES RELATED TO WILDERNESS .....	3
INTRODUCTION .....	3
LOCATION AND PHYSIOGRAPHY .....	3
ACKNOWLEDGMENTS .....	5
GEOLOGIC SETTING .....	5
SAMPLE COLLECTION AND PREPARATION .....	5
Station and sample numbers .....	6
ANALYTICAL GEOCHEMICAL PROCEDURES .....	6
Emission spectrography .....	6
Atomic absorption analysis .....	6
ANALYTICAL RESULTS .....	7
STATISTICAL SUMMARIES .....	8
REFERENCES CITED .....	8
EXPLANATION OF TABLE 6 .....	33

## ILLUSTRATIONS

Figure 1. Index map showing location of the Owens Peak and Little Lake Canyon Wilderness Study Areas .....	4
Plate 1. Map showing locations of sampling sites in the Owens Peak and Little Lake Canyon Wilderness Study Areas .....	pocket

## TABLES

Table 1. Upper and lower limits of determination for rock samples ...	10
2. Reporting values and ranges for six-step, semiquantitative spectrographic analyses .....	11
3. Qualification codes used in tables 5 and 6 .....	11
4. Summary statistics for the analyses of rock samples .....	12
5. Data for rock samples .....	13
6. Frequency tables and histograms for rock samples .....	34

## STUDIES RELATED TO WILDERNESS

### Bureau of Land Management Wilderness Study Area

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine the mineral values, if any, that may be present. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Owens Peak (CDCA-158) and Little Lake Canyon (CDCA-157) Wilderness Study Areas, California Desert Conservation Area, Inyo and Kern Counties, California.

### INTRODUCTION

A reconnaissance geochemical survey of the Owens Peak and Little Lake Canyon Wilderness Study Areas, Inyo and Kern Counties, California was conducted by the U.S. Geological Survey in 1982, in order to provide information on the mineral resource potential of the areas. In this report, any reference to the Owens Peak and Little Lake Canyon Wilderness Study Areas refers only to that part of the wilderness study areas designated by the U.S. Bureau of Land Management as suitable for mineral surveys. This report contains analytical data and statistical summaries derived from geochemical analyses of 183 rock samples (table 5). Data for stream-sediment and heavy-mineral-concentrate samples from the two wilderness study areas are given by Detra and others (1985). Data for rock and heavy-mineral-concentrate samples from the Owens Peak (CA-010-026) Wilderness Study Area, adjacent to the Owens Peak (CDCA-158) Wilderness Study Area are given by Adrian and others (1986). The rock samples for this study were analysed for 31 elements (Ag, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, La, Mg, Mn, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, Th, Ti, V, W, Y, Zn, and Zr) by emission spectrographic techniques; for arsenic, cadmium, gold, and zinc by atomic-absorption spectrometry; and for mercury by a modification of the atomic absorption method. The locations of the 150 sites from which the 183 samples were collected are shown on plate 1; geographic coordinates for each of these are given in table 5. The locations of an additional 24 sampling sites, HR302, IK103, LL166, LL243, LL262, LL315, LL326, LL330, LL375, LL412, LP011, LP012, LP013, LP017, LP018, LP019, LP023, LP120, LP124, LP125, LP128, LP131, LP135, and M0103, are also shown on plate 1, from which modal and (or) major-element chemical analyses were made. These data are given by Diggles and others (1986). Statistical summaries for all detected elements are given in table 4, and frequency tables and histograms given in table 6.

### LOCATION AND PHYSIOGRAPHY

The Owens Peak (CDCA-158) and Little Lake Canyon (CDCA-157) Wilderness Study Areas are located on the east slope of the southern Sierra Nevada north of Walker Pass (see fig. 1) The Owens Peak study area contains 26,112 acres and Little Lake Canyon study area contains 30,542 acres. Road access to the area is by State Highway 178 from the south, county road J41 from the north, State Highway 14 and U.S. Highway 395 from the east, and spurs off of the Canebrake road from the west. Local roads sometimes become impassable due to

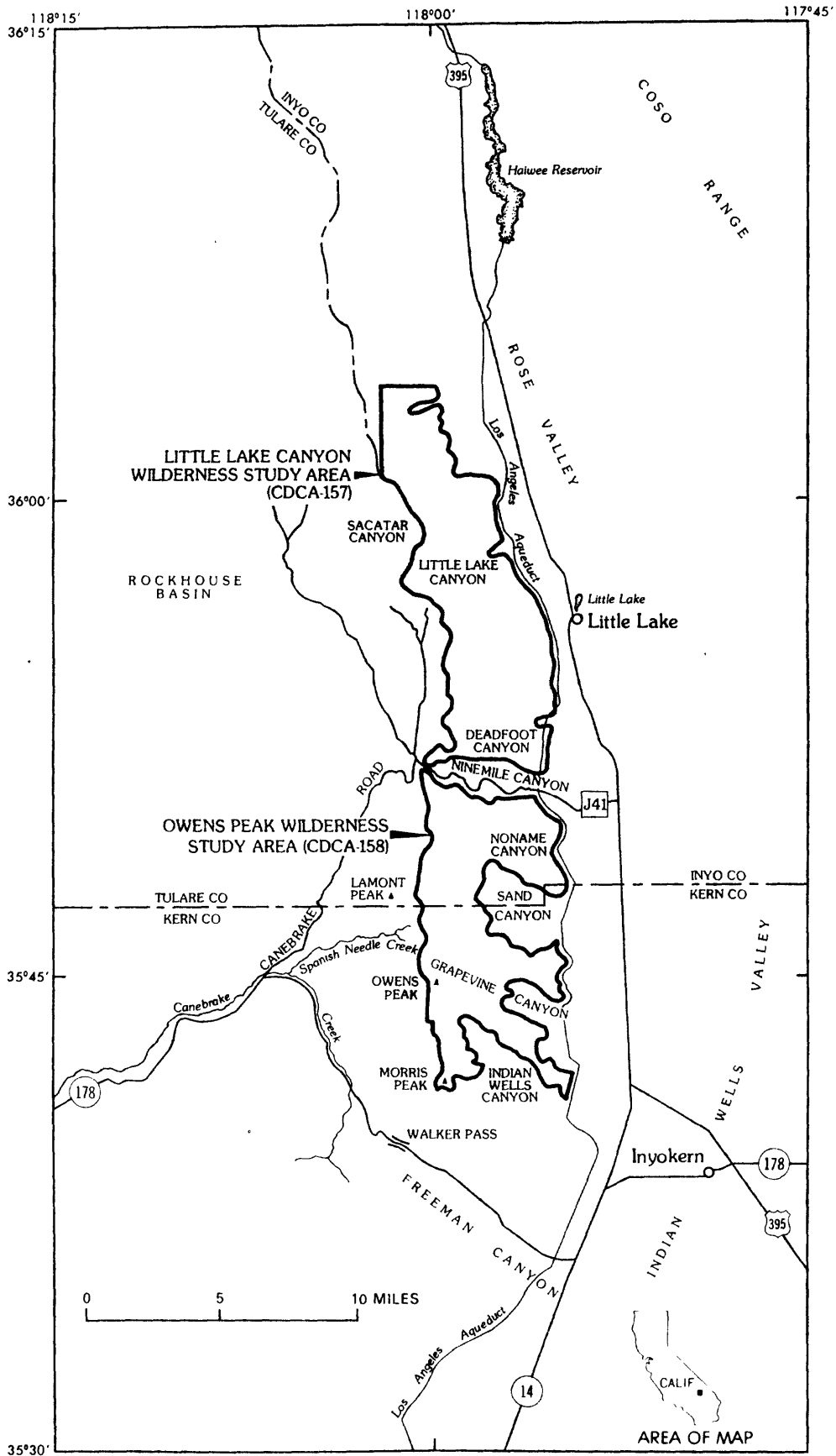


Figure 1.--Index map showing location of the Owens Peak and Little Lake Canyon Wilderness Study Areas, Inyo and Kern Counties, California

extensive erosion during flash floods. The terrane is steep and rugged in most places with elevations ranging from about 3,300 ft along the aqueduct to the east to 8,453 ft at the summit of Owens Peak in the west. The vegetation includes sagebrush, Joshua tree, creosote bush, desert holly, cactus, and mountain mahogany in the desert lowlands. Vegetation of the Yellow Pine belt (Transition Zone) (Storer and Usinger, 1963) in the higher country consists of pinon, juniper, incense cedar, black oak, and ceanothus. Jeffrey pine and rarely sugar pine, are present on the north side of Owens and Sawtooth Peaks. The foothills are in the Upper Sonoran Zone and are vegetated with digger pine, live oak, ceanothus, manzanita, and chinquapin.

### **ACKNOWLEDGMENTS**

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### **GEOLOGIC SETTING**

The Owens Peak and Little Lake Canyon Wilderness Study Areas are underlain mostly by granitic rocks of the Sierra Nevada batholith, that were emplaced during at least three major periods of intrusive activity (Evernden and Kistler, 1970). These consist of Cretaceous leucocratic, nonfoliated rocks of granitic to granodioritic composition; an older set of slightly more mafic granodioritic to tonalitic rocks of Jurassic age that often have stromatic to schlieric textures; and gabbroic to dioritic rocks with schistose to gneissic textures that are probably of Triassic and (or) Jurassic age. The granitic rocks intruded and metamorphosed Paleozoic to Mesozoic sedimentary and volcanic rocks to quartz-mica schist, quartzite, marble, and minor greenschist. Zones of garnet-epidote-wollastonite calc-silicate hornfels developed near contacts with granitic rocks.

### **SAMPLE COLLECTION AND PREPARATION**

Sampling stations were located at bedrock outcrops during the geologic mapping of the wilderness study areas. A total of 183 rock samples were analyzed. The analytical data for these samples are listed in table 5. The approximate sampling density was 1 sample per 0.6 mi<sup>2</sup>. A small number of samples were collected from outcrops that were conspicuously iron stained suggesting a history of mineralization. Conspicuously weathered material was avoided. Samples were crushed, split, and ground to minus-300 mesh in a pulverizer with ceramic plates; a split of this material was saved for analysis.

### **Station and sample numbers**

Sampling sites were assigned a station number composed of a two-letter prefix and a series number. The prefix denotes the U.S. Geological Survey 15-minute quadrangle of the sampling site; HR for Haiwee Reservoir, IK for Inyokern, LL for Little Lake, LP for Lamont Peak, MO for Monache Mountain, and

OX for Onyx. Samples collected by M.F. Diggles have numbers in the series 001-099; samples collected by J.E. Conrad have numbers in the series 201-299 and 401-499; samples collected by D.A. Dellinger have numbers in the series 301-399. Sample numbers used in table 5 are composed of a station number to which a sample-type suffix has been added; A for primary lithologies and B through F for subordinate lithologies. The station location map (pl. 1) shows the stations and station numbers of all rock-sampling sites in the study area.

## **ANALYTICAL GEOCHEMICAL PROCEDURES**

### **Emission spectrography**

Laboratory preparation and analysis was performed by the Branch of Exploration Geochemistry of the U.S. Geological Survey. All samples were analyzed for 31 elements (Ca, Fe, Mg, Ti, Ag, As, Au, B, Ba, Be, Bi, Cd, Co, Cr, Cu, La, Mn, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, Th, V, W, Y, Zn, and Zr) using a six-step semiquantitative emission spectrographic method similar to that described by Myers and others (1961) and Grimes and Marranzino (1968).

The spectrographic analytical values (table 5) are reported as the approximate geometric midpoints of concentration ranges with six intervals in each order of magnitude. The reporting values and widths between range boundaries are evenly spaced on a logarithmic-normal scale, which is consistent with the expected distribution of most elements in geologic materials (Rose and others, 1979). Analyses are reported at one of the six-step values listed in table 2, or appropriate integral powers of ten of these values.

In general, precision of the spectrographic method is plus or minus one reporting interval of the value determined approximately 83 percent of the time, and plus or minus two reporting intervals of the value determined 96 percent of the time (Motooka and Grimes, 1976). Because all of the samples for this report were analyzed by the same analyst using the same spectrographic instrument, our experience indicates that better precision can be expected. A standard reference sample was analyzed to monitor the quality of analyses of each batch of field samples. These values are omitted from table 5.

### **Atomic absorption analysis**

In addition to the standard 31-element spectrographic analysis, the rock samples were also analysed for arsenic, cadmium, and zinc by a modification of the atomic-absorption method described by Ward and others (1969) and Viets (1967) and for gold by atomic-absorption methods described by Thompson and others (1968). Analyses for mercury were made by a modification of the atomic absorption method described by McNerney and others (1972) and Vaughn and McCarthy (1964) in which mercury is vaporized by heating, passed through the lamp beam on the atomic-absorption instrument, and measured.

The precision of a determination varies with the concentration of the element analyzed. The precision for each method tends to be lowest for those

samples with elemental concentrations at or near the lower limit of determination.

The analytical data for the atomic-absorption analyses are presented in table 5. In table 6, however, these analyses are presented in terms of six-step intervals (see table 2) and thus allow statistical treatment consistent with that for the semiquantitative analyses.

## ANALYTICAL RESULTS

The analytical results for iron, magnesium, calcium, and titanium are reported in percent; analytical values for all other elements are given in parts per million (ppm). The analytical results were entered into the U.S. Geological Survey Rock Analysis Storage System (RASS). A standard binary STATPAC (Statistical Package) file was generated from the RASS file using RASS program RETRIEVAL (b860). The format of a STATPAC data set is a two-dimensional data matrix with a data set identifier, row and column identifiers, row indices and a location for each row. Each row contains all analyses for a single sample; each column contains analyses of all samples for an element with a separate column for each analytical method used for an element. The data-set format has provisions for analytical-value qualification codes. The codes used are listed in table 3. A comprehensive description of the RASS-STATPAC system is given by VanTrump and Miesch (1976).

Table 5 is listings of the analytical data for the rock samples in which the first column contains the sample numbers; these are identical to those shown in plate 1. The sample identification information is followed by four columns containing geographic location data. The four columns contain north latitudes and west longitudes in degrees, minutes and seconds followed by the Universal Transverse Mercator (UTM) coordinates for easting and northing. Columns for elements are headed with the element symbol, reporting units, and type of analysis. Percent is denoted by "pct", parts per million by "ppm", emission spectrographic analysis by "s", atomic-absorption analysis by "aa", and modified atomic absorption analysis by "inst". Because of the formatting used in the computer program that produced table 5, some of the elements listed (Ca, Fe, Mg, Ti, Ag, and Be) carry one or more nonsignificant zeros to the right of the significant digits. The analyst did not determine these elements to the accuracy suggested by the extra zeros. Table 5 was produced by formatting the data in the STATPAC file with the program PUBLST, written by J.B. Fyfe (written commun., 1980).

Several of the elements have lower limits of analytical detection that are usually above the normal concentrations for these elements in natural materials (table 1). We did not find any rock samples that contained antimony, arsenic, bismuth, cadmium, gold, or tungsten in concentrations detectable by emission spectrography nor arsenic in atomic-absorption samples in concentrations as great as their lower limits of determination. These 8 categories are deleted from tables 4 and 6.

## STATISTICAL SUMMARIES

Table 4 gives summary statistics based on data provided by computer programs in the U.S. Geological Survey RASS-STATPAC system (VanTrump and Miesch, 1976). Tables 5 contains statistical summaries of the analytical data and were generated using the statistical program TOTS, written by R.D. Koch (written commun., 1981). The program was used to divide all data not already reported in six-step class intervals into the intervals listed in table 2. The program creates frequency tables and histograms based on these intervals and computes the arithmetic means, standard deviations, geometric means, and geometric deviations of the populations. Entries in table 6 are identified on the page preceding it.

Values qualified with N, L, G, or H in table 6 were not considered in the histograms; the resulting statistics are therefore biased. Many of the histograms show this bias by their truncated form.

The geometric mean of a set of analyses is the antilogarithm of the arithmetic mean of the logarithms of the analyses. This mean is an indication of central tendency and does not indicate geochemical abundance. Most elements are log-normally distributed in geologic materials (Ahrens, 1957; Siegel, 1974) and histograms based on logarithmic scales like those in table 6 will be symmetrical for log-normal distributions. The geometric deviation of a set of analyses, the antilogarithm of the standard deviation of the logarithms of the analyses, is useful for noting the spread of a log-normally distributed population.

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Table 1.--Upper and lower limits of determination for rock samples  
 [All analyses by semiquantitative emission spectrography except as indicated; ppm, parts per million; aa, atomic absorption spectrometry; inst, fluorimetry]

Elements and reporting units	Limits	
	Lower	Upper
Ca, percent	0.05	20
Fe, percent	.05	20
Mg, percent	.02	10
Ti, percent	.002	1
Ag, ppm	.5	5,000
As, ppm	200	10,000
Au, ppm	10	500
B, ppm	10	2,000
Ba, ppm	20	5,000
Be, ppm	1	1,000
Bi, ppm	10	1,000
Cd, ppm	20	500
Co, ppm	5	2,000
Cr, ppm	10	5,000
Cu, ppm	5	20,000
La, ppm	20	1,000
Mn, ppm	10	5,000
Mo, ppm	5	2,000
Nb, ppm	20	2,000
Ni, ppm	5	5,000
Pb, ppm	10	20,000
Sb, ppm	100	10,000
Sn, ppm	10	1,000
Sr, ppm	100	5,000
Th, ppm	100	2,000
V, ppm	10	10,000
W, ppm	50	10,000
Y, ppm	10	2,000
Zn, ppm	200	10,000
Zr, ppm	10	1,000
As (aa), ppm	10	$\frac{1}{1}$
Au (aa), ppm	.002	$\frac{1}{1}$
Cd (aa), ppm	.1	$\frac{1}{1}$
Zn (aa), ppm	5	$\frac{1}{1}$
Hg, (inst), ppm	.02	$\frac{1}{1}$

1/ Dilution during sample preparation eliminates any upper detection limit

Table 2.--Reporting values and ranges for six-step, semiquantitative spectrographic analyses

Reporting values (class interval midpoints)	Concentration ranges	Class interval widths
1.5	1.2 - 1.8	0.6
2.0	1.8 - 2.6	.8
3.0	2.6 - 3.8	1.2
5.0	3.8 - 5.6	1.8
7.0	5.6 - 8.3	2.7
10	8.3 - 12	3.7

Table 3.--Qualification codes used in tables 5 and 6  
[n refers to value of upper or lower limit of determination]

Code in table 5	Code in table 6	Meaning
--	B	Blank; no analysis performed
N	N	Not detected by analysis at the lower limit of determination shown in parentheses
<n	L	Detected, but below the lower limit of determination shown
>n	G	Element present in an amount greater than the upper limit of determination shown

**Table 4.---Summary statistics of analytical data for rock samples from the Owens Peak and Little Lake Canyon Wilderness Study Areas**

[All concentrations are in parts per million except those for Ca, Fe, Mg, and Ti, which are in percent. N, not detected at the lower limit of determination; L, detected, but below lower limit of determination; G, detected but above the upper limit of determination shown in parentheses. All analyses are emission spectrographic except as noted; aa, atomic-absorption spectroscopy; inst, modified atomic absorption. There were no unqualified values for As, Au, Bi, Cd, Sb, or W in spectrographic samples nor As in atomic-absorption samples; thus, meaningful statistical information could not be derived for those elements]

Element	Range of values	Geometric		Percentile				
		mean	deviation	50	75	90	95	98
Ca	.2-G(20)	2.3	2.3	3	4	6	10	18
Fe	.15-15	2.8	2.6	3	5	10	10	13
Mg	.02-G(10)	1.1	2.6	1.5	2	2	5	7
Ti	.01-1	.28	2.4	.3	.5	.7	1	G(1)
Ag	N(.5)-1.5	.87	1.9	N(.5)	N(.5)	N(.5)	L(.5)	.5
B	N(10)-700	16	2	10	15	30	50	70
Ba	N(20)-5,000	680	2.3	700	1,000	1,500	2,000	5,000
Be	N(1)-5	1.5	1.5	1	1.5	2	3	3
Co	N(5)-100	15	2.2	15	20	30	50	85
Cr	N(10)-700	36	2.9	N(10)	20	60	100	250
Cu	N(5)-300	27	2.7	20	50	100	150	200
La	N(20)-200	50	1.9	50	70	100	100	200
Mn	20-G(5,000)	490	2.5	500	1,000	1,000	2,000	3,000
Mo	N(5)-20	12	1.6	N(5)	N(.5)	N(.5)	N(.5)	15
Nb	N(20)-70	29	1.8	N(20)	N(20)	L(20)	L(20)	20
Ni	N(5)-500	12	2.5	7	15	30	70	100
Pb	N(10)-100	21	1.8	20	30	50	70	70
Sc	N(5)-70	12	1.9	10	20	20	30	50
Sn	N(10)-20	20	--	N(10)	N(10)	N(10)	N(10)	N(10)
Sr	N(100)-2,000	440	1.8	500	700	1,000	1,000	1,500
Th	N(100)-150	120	1.3	N(100)	N(100)	N(100)	N(100)	L(100)
V	N(10)-10,000	87	2.8	100	150	200	300	500
Y	N(10)-100	23	1.8	20	30	50	60	85
Zn	N(200)-700	350	1.9	N(200)	N(200)	N(200)	N(200)	L(200)
Zr	N(10)-500	130	2.2	200	200	300	300	400
Au (aa)	10-40	11	1.3	10	10	10	10	25
Cd (aa)	N(.1)-.8	.17	2.2	N(.1)	N(.1)	L(.1)	.1	.35
Zn (aa)	5-150	46	2	55	68	80	88	105
Hg (inst)	N(.02)-.08	.026	1.6	L(.02)	L(.02)	.02	.02	.04

Table 5. Data for rock samples

Sample No.	Latitude	Longitude	DTM Easting	DTM Northing	Ca-pct	Fe-pct	Mg-pct	Ti-pct	Ag-ppm	Au-ppm	Au-ppm
HR201A	36 2 14	117 59 23	500,936.03	3,987,881.7	2.0	2.00	1.50	.500	#	#	#
HR301A	36 0 35	117 58 9	502,773.84	3,984,819.8	.7	1.00	.70	.300	#	#	#
HR304A	36 1 4	117 59 12	501,191.23	3,985,720.1	1.0	1.50	1.00	.300	#	#	#
HR305A	36 1 1	117 58 42	501,954.53	3,985,618.2	5.0	5.00	1.50	.500	#	#	#
IK101A	35 43 53	117 58 47	501,839.43	3,953,947.9	2.0	1.00	.50	.100	#	#	#
IK102A	35 44 22	117 59 48	500,290.27	3,954,846.1	>20.0	.30	2.00	.030	#	#	#
IK104A	35 42 30	117 58 51	501,728.68	3,951,392.7	1.0	2.00	1.50	.300	#	#	#
IK105A	35 42 26	117 58 45	501,885.19	3,951,286.2	1.0	.70	.30	.100	#	#	#
IK106A	35 42 7	117 59 7	501,325.38	3,950,679.4	3.0	2.00	2.00	.700	1.5	#	#
IK107A	35 42 29	117 59 14	501,157.92	3,951,358.2	5.0	3.00	3.00	.300	#	#	#
IK108A	35 42 22	117 59 19	501,018.61	3,951,161.8	2.0	2.00	1.00	.200	#	#	#
IK110A	35 43 57	117 59 44	500,399.74	3,954,066.4	7.0	5.00	2.00	.500	#	#	#
IK112A	35 41 23	117 59 5	501,391.59	3,949,344.1	3.0	5.00	.70	.200	#	#	#
IK113A	35 41 41	117 59 8	501,316.44	3,949,904.2	2.0	5.00	1.00	.500	#	#	#
IK114A	35 40 53	117 58 25	502,390.74	3,948,406.1	3.0	5.00	1.00	.300	#	#	#
IK115A	35 39 33	117 56 57	504,600.05	3,945,957.0	3.0	5.00	.70	.200	#	#	#
IK202C	35 42 15	117 59 11	501,227.60	3,950,943.4	3.0	3.00	1.50	.500	#	#	#
IK202D	35 42 15	117 59 11	501,228.54	3,950,951.1	3.0	3.00	1.00	.300	#	#	#
IK203A	35 42 8	117 58 41	501,992.12	3,950,720.6	1.0	.50	1.00	.050	#	#	#
IK203D	35 42 8	117 58 41	501,992.12	3,950,720.6	.7	.30	.20	.070	<.5	#	#
IK204A	35 44 48	117 55 51	506,247.85	3,955,663.5	2.0	1.50	.70	.100	#	#	#
IK205A	35 44 32	117 55 9	507,306.97	3,955,173.0	5.0	2.00	1.00	.500	#	#	#
IK207A	35 44 27	117 54 59	507,548.57	3,955,001.3	1.5	.50	.10	.050	#	#	#
IK303A	35 42 44	117 58 58	501,555.89	3,951,817.4	7.0	3.00	1.50	.300	#	#	#
IK304A	35 42 55	117 58 44	501,912.18	3,952,159.0	2.0	1.50	.70	.200	#	#	#
LL101B	35 49 24	117 59 51	500,217.69	3,964,154.6	10.0	10.00	7.00	1.000	#	#	#
LL102A	35 52 28	117 58 56	501,605.07	3,969,828.8	7.0	7.00	3.00	>1.000	<.5	#	#
LL103B	35 52 22	117 59 19	501,033.63	3,969,629.1	10.0	10.00	5.00	>1.000	#	#	#
LL104A	35 52 26	117 59 27	500,819.67	3,969,756.6	3.0	5.00	1.00	.700	<.5	#	#
LL104B	35 52 26	117 59 27	500,819.67	3,969,756.6	10.0	10.00	7.00	>1.000	#	#	#
LL104C	35 52 26	117 59 27	500,819.67	3,969,756.6	2.0	1.50	.50	.100	.5	#	#
LL105A	35 52 26	117 59 34	500,644.56	3,969,756.6	1.0	1.00	.10	.150	#	#	#
LL106A	35 55 36	117 58 38	502,062.23	3,975,612.9	2.0	7.00	1.50	1.000	#	#	#
LL107A	35 55 7	117 57 19	504,031.10	3,974,727.4	5.0	5.00	2.00	1.000	#	#	#
LL107B	35 55 7	117 57 19	504,031.10	3,974,727.4	15.0	7.00	10.00	.700	#	#	#
LL108A	35 54 56	117 57 16	504,110.67	3,974,385.8	7.0	5.00	1.50	.700	#	#	#
LL109B	35 47 25	117 59 11	501,231.70	3,960,494.7	1.0	3.00	2.00	.500	#	#	#
LL109C	35 47 25	117 59 11	501,231.70	3,960,494.7	10.0	7.00	2.00	.150	#	#	#
LL110A	35 57 39	117 59 17	501,073.07	3,979,408.1	.7	1.50	.50	.300	#	#	#
LL111A	35 59 25	117 59 38	500,544.41	3,982,679.9	3.0	5.00	1.50	.500	#	#	#
LL111B	35 59 26	117 59 38	500,544.41	3,982,688.8	2.0	3.00	1.00	.300	#	#	#
LL111B	35 59 25	117 59 38	500,544.41	3,982,679.9	1.0	2.00	.70	.500	#	#	#
LL113A	35 59 21	117 59 22	500,941.07	3,982,538.0	10.0	1.00	1.00	.200	#	#	#
LL114A	35 45 4	117 59 32	500,698.84	3,956,149.3	15.0	.15	.50	.015	#	#	#
LL115A	35 45 5	117 59 16	501,096.68	3,956,173.7	1.0	2.00	.50	.200	#	#	#

Table 5. Data for rock samples - (continued)

Sample No.	B-Ppm	Ba-Ppm	Be-Ppm	Bi-Ppm	Cd-Ppm	Co-Ppm	Cr-Ppm	Cu-Ppm	La-Ppm	Mn-Ppm	Mo-Ppm
HR201A	10	700	<1.0	W	W	10	W	30	50	700	W
HR301A	10	500	1.5	W	W	5	W	5	70	200	W
HR304A	10	500	1.0	W	W	10	W	10	50	500	W
HR305A	10	500	<1.0	W	W	20	<10	30	50	700	W
IK101A	<10	1,500	1.0	W	W	W	W	7	20	150	W
IK102A	<10	200	W	W	W	W	10	5	W	150	W
IK104A	10	700	1.0	W	W	7	70	50	30	100	15
IK105A	<10	700	1.5	W	W	W	W	5	W	100	W
IK106A	10	100	W	W	W	30	150	200	20	2,000	10
IK107A	W	300	W	W	W	50	700	20	W	300	W
IK108A	20	700	<1.0	W	W	10	W	30	W	500	W
IK110A	<10	150	1.0	W	W	20	W	30	W	2,000	W
IK112A	10	200	1.0	W	W	15	W	50	W	1,000	W
IK113A	10	700	W	W	W	20	W	100	20	1,000	5
IK114A	10	700	W	W	W	15	W	70	W	1,000	W
IK115A	10	700	W	W	W	15	W	70	20	700	W
IK202C	<10	200	W	W	W	20	W	100	W	700	W
IK202D	10	1,000	1.5	W	W	7	<10	10	20	700	W
IK203A	<10	100	1.0	W	W	W	W	5	W	200	W
IK203D	<10	1,000	3.0	W	W	W	W	15	20	100	W
IK204A	W	1,500	2.0	W	W	5	W	W	30	500	W
IK205A	<10	500	1.5	W	W	10	10	<5	20	500	W
IK207A	<10	700	1.0	W	W	W	W	W	W	70	W
IK303A	<10	1,000	<1.0	W	W	15	W	20	20	1,000	W
IK304A	W	700	1.0	W	W	5	W	300	20	200	W
LL101B	70	300	W	W	W	30	30	150	100	5,000	W
LL102A	30	1,000	W	W	W	20	50	100	150	2,000	W
LL103B	20	500	W	W	W	70	100	100	100	3,000	W
LL104A	20	5,000	W	W	W	15	20	100	200	1,000	W
LL104B	20	700	W	W	W	50	500	10	100	3,000	W
LL104C	20	5,000	W	W	W	5	10	30	70	500	W
LL105A	20	300	W	W	W	W	W	5	100	300	W
LL106A	30	5,000	W	W	W	20	70	10	100	1,000	W
LL107A	50	2,000	W	W	W	20	30	50	200	3,000	W
LL107B	20	500	W	W	W	100	700	150	70	3,000	W
LL108A	50	2,000	W	W	W	15	150	150	150	2,000	W
LL109B	10	2,000	1.0	W	W	10	20	50	50	70	W
LL109C	10	W	2.0	W	W	7	20	10	W	>5,000	W
LL110A	10	700	<1.0	W	W	5	W	<5	50	200	W
LL111A	10	1,000	<1.0	W	W	15	10	15	50	500	W
LL111B	15	1,000	<1.0	W	W	15	<10	<5	70	300	W
LL111B	10	1,000	<1.0	W	W	10	W	<5	30	300	W
LL113A	20	300	1.5	W	W	5	W	10	W	200	W
LL114A	W	50	W	W	W	W	30	W	20	100	W
LL115A	<10	1,000	1.0	W	W	5	W	10	20	200	W

Table 5. Data for rock samples - (continued)

Sample No.	Mb-ppm	Mi-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm	Th-ppm	V-ppm	W-ppm
IR201A	N	10	15	N	--	N	300	N	100	N
IR301A	N	5	20	N	--	N	200	N	70	N
IR304A	N	5	15	N	--	N	200	N	100	N
IR305A	<20	10	15	N	--	N	500	N	100	N
IR101A	N	N	15	N	--	N	700	N	20	N
IR102A	N	7	N	N	--	N	1,000	N	100	N
IR104A	N	20	<10	N	--	N	100	N	200	N
IR105A	N	N	30	N	--	N	300	N	15	N
IR106A	<20	100	<10	N	--	N	200	N	200	N
IR107A	N	300	N	N	--	N	N	N	70	N
IR108A	N	N	10	N	--	N	200	N	100	N
IR110A	N	7	10	N	--	N	1,000	N	150	N
IR112A	N	N	N	N	--	N	500	N	100	N
IR113A	N	N	N	N	--	N	300	N	150	N
IR114A	N	N	N	N	--	N	500	N	100	N
IR115A	N	N	N	N	--	N	500	N	70	N
IR202C	N	5	10	N	--	N	300	N	200	N
IR202D	N	5	15	N	--	N	500	N	100	N
IR203A	N	N	N	N	--	N	N	N	10	N
IR203D	N	N	30	N	--	N	200	N	10	N
IR204A	N	5	20	N	--	N	1,000	N	20	N
IR205A	N	7	15	N	--	N	200	N	70	N
IR207A	N	N	30	N	--	N	200	N	<10	N
IR303A	N	5	10	N	--	N	500	N	200	N
IR304A	N	N	10	N	--	N	300	N	70	N
LL101B	N	20	100	N	--	N	700	N	300	N
LL102A	<20	20	70	N	--	N	1,000	N	200	N
LL103B	<20	50	20	N	--	N	1,000	N	300	N
LL104A	<20	5	70	N	--	N	700	N	150	N
LL104B	N	70	50	N	--	N	1,000	N	500	N
LL106C	N	5	100	N	--	N	1,000	N	70	N
LL105A	N	N	70	N	--	N	200	N	50	N
LL106A	N	20	50	N	--	N	1,000	N	200	N
LL107A	20	20	70	N	--	N	1,000	N	200	N
LL107B	N	150	30	N	--	N	1,500	N	300	N
LL108A	<20	10	70	N	--	N	1,500	N	200	N
LL109B	<20	70	<10	N	--	N	300	N	200	N
LL109C	N	50	10	N	--	N	200	N	200	N
LL110A	N	5	20	N	--	N	150	<100	20	N
LL111A	N	20	15	N	--	N	200	N	100	N
LL111B	N	7	30	N	--	N	500	N	70	N
LL111B	N	7	20	N	--	N	300	N	50	N
LL113A	N	10	10	N	--	N	300	N	50	N
LL114A	N	5	N	N	--	N	200	N	10	N
LL115A	N	N	20	N	--	N	300	N	30	N

Table 5. Data for rock samples - (continued)

Sample No.	Y-ppm	Zn-ppm	Zr-ppm	As-ppm	Au-ppm	Au-ppm	Cd-ppm	Zn-ppm	Hg-ppm
	g	g	g	g	g	g	g	g	inst
HR201A	20	g	g	g	g	g	g	g	g
HR301A	15	g	g	g	g	g	g	g	g
HR304A	20	g	g	g	g	g	g	g	g
HR305A	30	g	g	g	g	g	g	g	g
IK101A	g	g	g	g	g	g	g	50	g
IK102A	10	g	g	g	g	g	.1	25	g
IK104A	20	g	g	g	g	g	<.1	60	.02
IK105A	g	g	g	g	g	g	<.1	30	g
IK106A	15	g	g	g	g	g	.4	40	g
IK107A	10	g	g	g	g	g	.1	25	g
IK108A	15	g	g	g	g	g	g	50	.08
IK110A	20	g	g	g	g	g	.1	50	g
IK112A	15	g	10	<5	10	10	g	50	<.02
IK113A	30	g	200	g	10	10	g	55	<.02
IK114A	20	g	150	g	10	10	g	60	<.02
IK115A	10	g	70	g	10	10	g	50	<.02
IK202C	15	g	g	g	g	g	.1	30	g
IK202D	15	g	g	g	g	g	g	30	g
IK203A	g	g	g	g	g	g	g	10	g
IK203D	g	g	g	g	g	g	g	5	g
IK204A	10	g	g	g	g	g	g	60	g
IK205A	20	g	g	g	g	g	g	100	g
IK207A	g	g	g	g	g	g	g	10	g
IK303A	20	g	g	g	g	g	g	15	g
IK304A	15	g	g	g	g	g	g	10	g
LL101B	70	<200	g	g	g	g	g	80	<.02
LL102A	70	<200	g	g	g	g	g	75	g
LL103B	70	g	g	g	g	g	g	55	.02
LL104A	100	g	g	g	g	g	g	55	.02
LL104B	70	g	g	g	g	g	g	85	<.02
LL104C	10	g	g	g	g	g	g	50	.02
LL105A	g	g	g	g	g	g	g	20	.04
LL106A	30	g	g	g	g	g	g	60	g
LL107A	70	g	g	g	g	g	g	75	.02
LL107B	50	g	g	g	g	g	g	50	<.02
LL108A	100	g	g	g	g	g	g	100	g
LL109B	20	g	g	g	g	g	g	g	g
LL109C	20	700	g	g	g	g	g	g	g
LL110A	15	g	g	g	g	g	g	g	g
LL111A	30	g	g	g	g	g	g	g	g
LL111B	10	g	100	g	10	10	g	50	<.02
LL111B	15	g	g	g	g	g	g	g	g
LL113A	15	g	g	g	g	g	g	20	g
LL114A	10	g	g	<5	g	g	.6	5	g
LL115A	g	g	g	g	g	g	g	50	g



Table 5. Data for rock samples - (continued)

Sample No.	Latitude	Longitude	UTM Easting	UTM Northing	Ca-ppt %	Fe-ppt %	Mg-ppt %	Fl-ppt %	Ag-ppm	As-ppm	Au-ppm
LL118A	35 47 46	117 59 3	501,429.47	3,961,130.3	5	.20	.05	.020	<.5	M	M
LL123A	35 47 20	117 55 27	506,864.48	3,960,323.2	3.0	7.00	2.00	.300	M	M	M
LL125A	35 46 58	117 55 33	506,699.59	3,959,672.0	2.0	1.00	.10	.050	M	M	M
LL126A	35 46 44	117 55 49	506,294.99	3,959,218.1	3.0	5.00	2.00	.300	M	M	M
LL129A	35 46 6	117 54 17	508,618.01	3,958,064.4	.7	.70	.10	.100	M	M	M
LL135A	35 48 19	117 55 17	507,114.24	3,962,143.4	3.0	.70	.20	.030	M	M	M
LL142A	35 49 27	117 54 47	507,847.81	3,964,234.6	3.0	5.00	2.00	.300	M	M	M
LL145A	35 49 51	117 58 27	502,343.89	3,964,993.4	5.0	15.00	5.00	.700	M	M	M
LL146A	35 50 38	117 59 49	500,277.23	3,966,427.1	2.0	2.00	.70	.300	M	M	M
LL147A	35 50 38	117 59 28	500,809.13	3,966,443.8	3.0	5.00	2.00	.300	M	M	M
LL150A	35 52 2	117 58 45	501,884.17	3,969,035.9	3.0	5.00	2.00	.300	M	M	M
LL155A	35 55 27	117 57 29	503,783.64	3,975,322.8	3.0	5.00	1.50	.300	M	M	M
LL158B	35 55 27	117 57 29	503,783.64	3,975,322.8	2.0	3.00	1.00	.200	M	M	M
LL158B	35 55 27	117 57 29	503,783.64	3,975,322.8	2.0	3.00	1.00	.300	M	M	M
LL171A	35 55 16	117 59 10	501,263.07	3,975,000.5	.5	1.50	.20	.100	M	M	M
LL201A	35 57 43	117 59 5	501,389.60	3,979,535.7	3.0	5.00	1.00	.500	M	M	M
LL202A	35 57 39	117 59 2	501,453.61	3,979,393.7	.5	1.00	.50	.150	M	M	M
LL203A	35 57 42	117 58 49	501,786.31	3,979,481.4	.5	.70	.30	.100	M	M	M
LL210A	35 57 22	117 58 9	502,785.69	3,978,887.2	.7	1.00	.50	.200	M	M	M
LL212A	35 57 5	117 58 0	503,016.70	3,978,347.1	3.0	3.00	1.50	.500	M	M	M
LL213A	35 57 31	117 57 44	503,396.03	3,979,158.0	2.0	5.00	2.00	.700	M	M	M
LL215A	35 57 48	117 57 28	503,815.14	3,979,676.2	3.0	3.00	1.00	.300	M	M	M
LL217A	35 57 12	117 57 20	504,007.74	3,978,588.2	2.0	1.50	1.00	.500	M	M	M
LL220A	35 56 53	117 56 46	504,848.50	3,978,001.9	3.0	2.00	1.00	.500	M	M	M
LL226A	35 45 13	117 56 2	505,984.18	3,956,413.0	1.0	.70	.30	.100	M	M	M
LL227A	35 45 26	117 54 48	507,842.66	3,956,822.6	1.0	1.50	.70	.200	M	M	M
LL228A	35 45 25	117 54 26	508,398.68	3,956,808.7	1.0	1.50	1.00	.200	M	M	M
LL229A	35 46 0	117 56 51	504,748.45	3,957,871.8	1.0	.70	.50	.200	M	M	M
LL231A	35 46 16	117 56 13	505,709.00	3,958,351.5	1.5	1.00	.50	.200	M	M	M
LL233A	35 46 56	117 59 46	500,351.57	3,959,596.3	1.0	1.00	.70	.200	M	M	M
LL245A	35 47 55	117 59 52	500,197.85	3,961,398.5	1.0	1.00	.50	.200	M	M	M
LL248A	35 45 6	117 55 58	506,072.00	3,960,206.8	5.0	5.00	1.50	.500	M	M	M
LL252A	35 47 37	117 59 21	500,969.59	3,960,859.6	2.0	2.00	1.00	.300	M	M	M
LL255A	35 49 12	117 59 28	500,817.00	3,963,776.0	5.0	5.00	2.00	.500	M	M	M
LL255B	35 49 13	117 59 30	500,757.94	3,963,806.4	3.0	2.00	1.50	.200	M	M	M
LL258B	35 49 13	117 59 30	500,757.94	3,963,806.4	7.0	10.00	1.50	1.000	M	M	M
LL258A	35 49 35	117 58 35	502,130.82	3,964,492.0	3.0	2.00	1.50	.300	M	M	M
LL275A	35 49 25	117 59 54	500,145.41	3,964,194.5	2.0	3.00	1.00	.300	M	M	M
LL279A	35 51 40	117 57 17	504,083.69	3,968,356.8	5.0	10.00	3.00	.500	M	M	M
LL289A	35 52 25	117 56 12	505,723.36	3,969,726.3	3.0	5.00	2.00	.300	M	M	M
LL289B	35 52 25	117 56 12	505,723.36	3,969,726.3	5.0	15.00	2.00	1.000	M	M	M
LL289B	35 52 25	117 56 12	505,723.36	3,969,726.3	3.0	7.00	2.00	.500	M	M	M
LL298A	35 54 8	117 55 22	506,962.12	3,972,906.9	2.0	3.00	1.00	.300	M	M	M
LL298B	35 54 8	117 55 22	506,962.12	3,972,906.9	2.0	5.00	.70	.300	M	M	M
LL298B	35 54 8	117 55 22	506,962.12	3,972,906.9	2.0	5.00	1.00	.300	M	M	M

Table 5. Data for rock samples - (continued)

Sample No.	B-ppm	Ba-ppm	Be-ppm	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mn-ppm	Mo-ppm
LL118A	<10	50	2.0	W	W	W	W	5	W	50	W
LL123A	30	1,000	2.0	W	W	15	W	30	100	1,000	W
LL125A	10	50	5.0	W	W	W	W	<5	W	500	W
LL126A	70	700	2.0	W	W	15	W	20	70	700	W
LL129A	<10	<20	3.0	W	W	W	W	5	W	1,000	W
LL135A	<10	700	2.0	W	W	W	W	20	W	200	W
LL142A	10	1,000	2.0	W	W	30	30	20	70	700	W
LL145A	70	300	W	W	100	200	200	200	W	700	W
LL146A	<10	1,500	3.0	W	5	W	W	10	50	300	W
LL147A	10	700	2.0	W	15	W	W	20	30	1,000	W
LL150A	10	700	2.0	W	W	30	W	30	50	1,500	W
LL153A	10	1,500	2.0	W	W	15	W	10	200	700	W
LL155B	10	1,000	<1.0	W	W	10	<10	W	50	200	W
LL155B	10	1,500	2.0	W	W	10	W	<5	70	700	W
LL171A	<10	700	W	W	W	W	W	<5	W	150	W
LL201A	20	700	1.0	W	W	15	10	20	70	500	W
LL202A	W	300	1.0	W	W	W	W	50	50	1,000	W
LL203A	<10	1,000	1.0	W	W	W	W	<5	70	500	W
LL210A	<10	2,000	W	W	5	W	W	200	100	200	W
LL212A	10	1,000	1.0	W	W	15	30	20	50	1,000	W
LL213A	15	1,000	1.0	W	W	15	10	20	50	500	W
LL215A	10	1,500	<1.0	W	W	10	W	70	50	500	W
LL217A	20	1,000	1.5	W	W	5	W	10	300	500	W
LL220A	10	1,000	1.0	W	W	5	W	20	700	700	W
LL226A	<10	1,000	1.0	W	W	W	W	<5	20	70	W
LL227A	30	700	1.5	W	W	5	W	20	20	200	W
LL228A	15	200	1.5	W	W	7	W	20	200	200	W
LL229A	10	500	1.0	W	W	W	W	5	20	70	W
LL231A	10	1,000	2.0	W	W	W	W	10	100	150	W
LL233A	10	2,000	1.5	W	W	5	W	<5	100	200	W
LL245A	W	1,000	1.5	W	W	W	W	10	50	200	W
LL248A	<10	500	1.0	W	W	20	15	20	50	500	W
LL252A	15	1,000	1.0	W	W	10	W	50	70	700	W
LL255A	10	300	W	W	30	W	<10	W	700	700	W
LL255B	<10	100	W	W	15	W	W	20	W	500	W
LL255B	10	300	W	W	W	30	10	70	W	700	W
LL258A	<10	1,000	1.0	W	W	20	W	50	20	500	W
LL275A	15	500	3.0	W	W	5	W	15	70	1,000	W
LL279A	30	700	1.0	W	W	30	50	50	100	1,000	W
LL289A	10	1,000	2.0	W	W	20	50	30	70	700	W
LL289B	<10	500	W	W	W	50	50	200	50	700	W
LL289B	15	1,000	2.0	W	W	50	70	50	70	700	W
LL298A	10	1,000	2.0	W	W	10	W	5	70	500	W
LL298B	<10	700	W	W	W	10	<10	7	70	200	W
LL298B	10	1,000	1.0	W	W	15	W	<5	70	500	W

Table 5. Data for rock samples - (continued)

Sample No.	Mo-ppm	Mn-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Str-ppm	Tb-ppm	V-ppm	W-ppm
LL118A	N	N	30	N	--	N	N	N	<10	N
LL123A	7	30	N	N	15	700	700	N	150	N
LL125A	5	50	N	N	5	N	N	N	10	N
LL126A	10	30	N	N	15	700	700	100	150	N
LL129A	5	50	N	N	7	N	N	N	<10	N
LL135A	<5	70	N	N	N	300	300	N	70	N
LL142A	15	20	N	N	20	500	500	N	150	N
LL145A	100	N	N	N	70	500	500	N	500	N
LL146A	5	30	N	N	5	1,000	1,000	N	50	N
LL147A	10	30	N	N	15	500	500	N	150	N
LL150A	15	20	N	N	15	500	500	N	200	N
LL155A	10	30	N	N	7	1,000	1,000	N	150	N
LL158	5	10	N	N	--	700	700	N	50	N
LL158B	5	20	N	N	5	700	700	N	100	N
LL171A	N	10	N	N	--	300	300	N	<10	N
LL201A	15	10	N	N	--	300	300	150	200	N
LL202A	5	15	N	N	--	200	200	N	20	N
LL203A	5	70	N	N	--	200	200	N	20	N
LL210A	<5	50	N	N	--	200	200	<100	20	N
LL212A	10	15	N	N	--	500	500	N	100	N
LL213A	10	15	N	N	--	500	500	N	100	N
LL215A	15	20	N	N	--	500	500	N	100	N
LL217A	5	20	N	N	--	300	300	N	70	N
LL220A	5	20	N	N	--	500	500	N	70	N
LL226A	N	20	N	N	--	200	200	N	10	N
LL227A	5	20	N	N	--	300	300	N	50	N
LL228A	5	20	N	N	--	200	200	N	50	N
LL229A	N	15	N	N	--	300	300	N	20	N
LL231A	N	20	N	N	--	700	700	N	30	N
LL233A	5	30	N	N	--	700	700	N	30	N
LL245A	N	20	N	N	--	700	700	N	20	N
LL248A	10	10	N	N	--	700	700	N	70	N
LL252A	5	10	N	N	--	500	500	N	70	N
LL255A	7	N	N	N	--	500	500	N	150	N
LL255B	5	<10	N	N	--	200	200	N	50	N
LL255S	7	N	N	N	--	700	700	N	150	N
LL258A	7	20	N	N	--	500	500	N	70	N
LL275A	<5	30	N	N	10	300	300	N	70	N
LL279A	30	20	N	N	20	700	700	N	300	N
LL289A	20	30	N	N	20	500	500	N	200	N
LL289B	30	15	N	N	--	200	200	N	200	N
LL289S	30	20	N	N	--	500	500	N	200	N
LL298A	5	30	N	N	10	500	500	N	100	N
LL298B	7	10	N	N	--	300	300	N	70	N
LL298S	10	30	N	N	20	500	500	N	100	N

Table 5. Data for rock samples - (continued)

Sample No.	Y-ppm	Zn-ppm	Zr-ppm	As-ppm	Au-ppm	Au-ppm	Cd-ppm	Zn-ppm	Hg-ppm
	g	g	g	ppm	ppm	ppm	ppm	ppm	inst
LL118A	W	W	--	W	W	--	W	10	W
LL123A	30	W	200	W	--	--	--	60	--
LL125A	30	W	30	W	--	--	--	30	--
LL126A	30	W	70	W	--	--	--	50	--
LL129A	30	W	50	W	--	--	--	25	--
LL135A	10	W	200	W	--	--	--	10	--
LL142A	50	W	200	W	--	--	--	65	--
LL145A	30	W	70	W	--	--	--	45	--
LL146A	15	W	200	W	--	--	--	70	--
LL147A	30	W	200	W	--	--	--	80	--
LL150A	30	W	300	W	--	--	--	70	--
LL155A	20	W	200	W	--	--	--	65	--
LL158B	10	W	100	W	10	10	W	45	<.02
LL158B	20	W	200	W	--	--	--	50	--
LL171A	W	W	70	W	10	10	W	35	<.02
LL201A	20	W	--	--	--	--	--	--	--
LL202A	10	W	--	--	--	--	--	--	--
LL203A	10	W	--	--	--	--	--	--	--
LL210A	15	W	--	--	--	--	--	--	--
LL212A	30	W	--	--	--	--	--	--	--
LL213A	20	W	--	--	--	--	--	--	--
LL215A	15	W	--	--	--	--	--	--	--
LL217A	20	W	--	--	--	--	--	--	--
LL220A	20	W	--	--	--	--	--	--	--
LL226A	W	W	--	W	W	--	W	25	W
LL227A	15	W	--	W	W	--	W	60	<.02
LL228A	50	W	--	W	W	--	W	45	<.02
LL229A	W	W	--	W	W	--	W	70	W
LL231A	10	W	--	W	W	--	W	60	W
LL233A	10	W	--	W	W	--	W	35	W
LL245A	W	W	--	W	W	--	W	75	.02
LL248A	30	W	--	W	W	--	W	65	W
LL252A	20	W	--	W	W	--	W	85	W
LL255A	20	W	--	W	W	--	W	55	W
LL255B	W	W	--	W	W	--	W	60	W
LL255B	10	W	20	W	W	10	W	50	<.02
LL258A	20	W	--	W	W	--	W	65	W
LL275A	50	W	100	W	--	--	--	110	--
LL279A	30	W	200	W	--	--	--	70	--
LL289A	30	W	200	W	--	--	--	50	--
LL289B	30	W	200	W	10	10	W	70	<.02
LL289B	50	W	100	W	--	--	--	50	--
LL298A	20	W	200	W	--	--	--	50	--
LL298B	10	W	70	W	10	10	W	50	<.02
LL298B	30	W	200	W	--	--	--	60	--

Table 5. Data for rock samples - (continued)

Sample No.	Latitude	Longitude	UTM Easting	UTM Northing	Ca-ppt	Fe-ppt	Mg-ppt	Ti-ppt	Ag-ppt	As-ppt	Au-ppt
LL301A	35 51 13	117 59 17	501,077.27	3,967,508.5	5.0	7.00	2.00	.700	W	W	W
LL302A	35 47 29	117 59 11	501,239.79	3,960,622.3	1.0	1.00	.30	.100	W	W	W
LL303A	35 57 37	117 59 42	500,454.50	3,979,328.1	5.0	10.00	2.00	.700	W	W	W
LL306A	35 58 39	117 59 28	500,807.77	3,981,242.5	2.0	2.00	1.50	.500	W	W	W
LL308A	35 58 55	117 58 20	502,510.70	3,981,754.1	5.0	7.00	2.00	.700	W	W	W
LL309A	35 59 2	117 58 41	501,979.67	3,981,975.8	2.0	1.50	.70	.200	W	W	W
LL313A	35 59 28	117 59 48	500,298.38	3,982,752.0	2.0	5.00	1.50	.500	W	W	W
LL316A	35 59 18	117 59 14	501,162.88	3,982,459.3	3.0	7.00	1.50	.500	W	W	W
LL318A	35 59 4	117 57 36	503,604.09	3,982,034.0	.5	.70	.30	.150	W	W	W
LL319A	35 58 45	117 57 45	503,383.45	3,981,446.1	3.0	5.00	1.50	.500	W	W	W
LL320A	35 45 22	117 56 11	505,752.56	3,956,714.5	1.0	1.50	.70	.200	W	W	W
LL321A	35 45 25	117 55 6	507,381.58	3,956,805.6	2.0	3.00	1.50	.300	W	W	W
LL321B	35 45 25	117 55 6	507,389.77	3,956,805.6	2.0	.50	1.50	.050	W	W	W
LL321B	35 45 26	117 55 6	507,389.77	3,956,813.4	3.0	7.00	1.50	.700	W	W	W
LL324A	35 45 48	117 55 21	506,998.67	3,957,488.4	2.0	2.00	1.50	.200	W	W	W
LL325A	35 46 6	117 54 45	507,918.36	3,958,070.4	3.0	3.00	2.00	.300	W	W	W
LL327A	35 46 29	117 56 34	505,168.27	3,958,779.3	1.5	1.00	.50	.300	W	W	W
LL333A	35 46 30	117 58 11	502,728.77	3,958,789.3	3.0	2.00	1.00	.500	W	W	W
LL335A	35 46 44	117 57 32	503,720.98	3,959,236.6	2.0	1.00	.30	.200	<.5	W	W
LL336A	35 49 2	117 58 43	501,926.02	3,963,467.2	2.0	1.50	1.00	.200	W	W	W
LL338A	35 48 26	117 58 5	502,881.20	3,962,380.5	1.5	2.00	1.00	.200	W	W	W
LL339A	35 46 32	117 57 25	503,896.46	3,958,855.1	2.0	2.00	.50	.200	W	W	W
LL339B	35 46 32	117 57 25	503,896.47	3,958,847.4	1.5	2.00	.30	.300	W	W	W
LL339B	35 46 32	117 57 25	503,896.47	3,958,847.4	2.0	2.00	.50	.200	W	W	W
LL341A	35 48 37	117 57 23	503,928.20	3,962,715.9	2.0	3.00	1.00	.200	W	W	W
LL344A	35 47 51	117 56 57	504,583.05	3,961,295.5	.2	1.00	.10	.050	W	W	W
LL345A	35 48 11	117 56 33	505,192.63	3,961,909.1	5.0	10.00	2.00	.500	W	W	W
LL345B	35 48 11	117 56 33	505,192.64	3,961,900.2	5.0	7.00	2.00	.500	W	W	W
LL345B	35 48 11	117 56 33	505,192.64	3,961,900.2	5.0	10.00	2.00	.500	W	W	W
LL346A	35 48 5	117 56 25	505,384.29	3,961,726.3	5.0	15.00	5.00	.500	W	W	W
LL347A	35 47 57	117 56 48	504,828.72	3,961,478.6	.2	.50	.05	.010	W	W	W
LL348A	35 47 51	117 57 41	503,487.02	3,961,285.0	2.0	3.00	1.00	.200	W	W	W
LL349A	35 47 40	117 56 14	505,663.98	3,960,948.9	3.0	5.00	2.00	.300	W	W	W
LL351A	35 49 48	117 57 43	503,439.51	3,964,899.4	3.0	5.00	2.00	.500	W	W	W
LL352A	35 49 58	117 56 56	504,614.45	3,965,211.7	3.0	5.00	2.00	.200	W	W	W
LL355A	35 51 55	117 58 15	502,638.03	3,968,814.3	5.0	10.00	2.00	.500	W	W	W
LL357A	35 53 40	117 58 45	501,878.97	3,972,030.5	3.0	7.00	2.00	.500	W	W	W
LL358A	35 53 40	117 57 50	503,267.00	3,972,033.1	2.0	7.00	1.50	.500	W	W	W
LL364A	35 53 32	117 56 52	504,719.29	3,971,789.7	2.0	5.00	1.50	.500	W	W	W
LL367A	35 55 3	117 58 47	501,834.28	3,974,603.6	7.0	15.00	7.00	>1.000	<.5	W	W
LL368A	35 54 50	117 58 28	502,303.50	3,974,199.9	5.0	10.00	2.00	.500	<.5	W	W
LL374A	35 48 37	117 55 49	506,303.36	3,962,721.7	.2	.50	.05	.050	W	W	W
LL404A	35 53 11	117 55 29	506,791.96	3,971,134.5	5.0	10.00	2.00	.700	W	W	W
LL407A	35 52 28	117 58 56	501,605.07	3,969,828.8	3.0	7.00	1.50	.500	W	W	W
LL407B	35 52 28	117 58 56	501,605.07	3,969,828.8	3.0	10.00	2.00	1.000	W	W	W

Table 5. Data for rock samples - (continued)

Sample No.	B-ppm	Ba-ppm	Ba-ppm	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mn-ppm	Mo-ppm
LL301A	15	1,500	<1.0	M	M	30	30	30	50	1,000	M
LL302A	10	700	1.0	M	M	M	M	M	30	200	M
LL303A	20	100	<1.0	M	M	70	20	50	50	1,000	M
LL304A	10	1,500	1.0	M	M	15	10	10	70	700	M
LL308A	10	700	<1.0	M	M	30	<10	50	50	1,000	M
LL309A	<10	2,000	1.0	M	M	5	M	<5	50	300	M
LL313A	15	1,000	<1.0	M	M	10	10	20	30	700	M
LL316A	10	1,000	1.0	M	M	30	20	50	50	1,000	M
LL318A	M	1,000	M	M	M	M	M	5	100	70	M
LL319A	15	1,000	1.0	M	M	10	10	30	30	700	M
LL320A	M	1,000	1.0	M	M	M	M	M	20	200	M
LL321A	100	500	1.0	M	M	20	<10	30	M	500	M
LL321B	50	500	1.0	M	M	50	M	50	20	200	M
LL321B	70	700	<1.0	M	M	20	10	150	50	700	M
LL324A	20	500	1.0	M	M	15	M	20	50	500	M
LL325A	50	700	3.0	M	M	15	M	50	50	1,000	M
LL327A	<10	1,000	1.0	M	M	M	M	7	20	100	M
LL333A	<10	1,000	1.0	M	M	10	<10	30	20	200	M
LL335A	M	700	1.0	M	M	M	M	5	20	100	M
LL336A	15	500	1.0	M	M	7	M	20	50	300	M
LL338A	10	200	1.0	M	M	5	M	30	M	300	M
LL339A	<10	1,500	3.0	M	M	M	M	5	50	300	M
LL339B	M	700	<1.0	M	M	5	M	M	20	100	M
LL339B	<10	1,500	3.0	M	M	M	M	<5	70	300	M
LL341A	30	700	3.0	M	M	10	M	20	70	700	M
LL344A	10	<20	5.0	M	M	M	M	20	20	1,500	M
LL345A	20	700	2.0	M	M	30	M	30	70	700	M
LL345B	M	700	M	M	M	30	15	70	M	500	M
LL345B	30	1,000	2.0	M	M	50	50	30	30	700	M
LL346A	70	300	M	M	M	70	30	200	M	700	M
LL347A	<10	20	3.0	M	M	M	M	<5	M	1,500	M
LL348A	15	300	3.0	M	M	5	M	15	30	700	M
LL349A	10	1,000	2.0	M	M	20	M	50	70	700	M
LL351A	10	1,000	2.0	M	M	15	M	15	100	1,000	M
LL352A	10	1,000	3.0	M	M	15	M	<5	30	700	M
LL355A	10	700	2.0	M	M	30	50	30	70	1,000	M
LL357A	20	1,500	2.0	M	M	50	50	30	70	1,000	M
LL359A	10	500	<1.0	M	M	30	30	20	20	700	M
LL364A	<10	700	<1.0	M	M	20	<10	20	70	700	M
LL367A	10	200	M	M	M	100	70	300	20	1,000	M
LL368A	<10	700	M	M	M	30	70	70	20	500	M
LL374A	<10	150	1.0	M	M	M	M	5	M	150	M
LL404A	10	1,500	<1.0	M	M	50	20	30	50	700	M
LL407A	<10	1,000	<1.0	M	M	20	20	50	30	700	M
LL407B	15	700	<1.0	M	M	30	30	70	50	1,000	M

Table 5. Data for rock samples - (continued)

Sample No.	Mo	Mb-ppm	Mi-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm	Th-ppm	V-ppm	W-ppm
LL301A	30	15	---	---	---	---	---	1,000	---	150	---
LL302A	5	20	---	---	---	---	---	300	---	15	---
LL303A	10	30	---	---	---	---	---	300	---	200	---
LL306A	10	15	---	---	---	---	---	500	---	100	---
LL308A	20	10	---	---	---	---	---	700	---	150	---
LL309A	5	20	---	---	---	---	---	500	---	50	---
LL313A	10	20	---	---	---	---	---	300	---	100	---
LL316A	20	15	---	---	---	---	---	500	---	100	---
LL318A	5	50	---	---	---	---	---	200	---	10	---
LL319A	10	15	---	---	---	---	---	500	---	200	---
LL320A	---	15	---	---	---	---	---	500	---	20	---
LL321A	7	20	---	---	---	---	---	300	---	100	---
LL321B	15	15	---	---	---	---	---	200	---	10	---
LL321B	10	10	---	---	---	---	---	300	---	150	---
LL324A	5	20	---	---	---	---	---	200	---	50	---
LL325A	10	30	15	---	---	---	---	700	---	150	---
LL327A	---	15	---	---	---	---	---	500	---	15	---
LL333A	5	10	---	---	---	---	---	700	---	70	---
LL335A	15	15	---	---	---	---	---	500	---	30	---
LL336A	---	20	---	---	---	---	---	300	---	50	---
LL338A	---	15	---	---	---	---	---	200	---	50	---
LL339A	<5	30	<5	---	---	---	---	1,000	---	30	---
LL339B	---	---	---	---	---	---	---	500	---	20	---
LL339B	5	30	5	---	---	---	---	700	---	50	---
LL341A	5	30	10	---	---	---	---	300	---	70	---
LL344A	5	10	15	---	---	---	---	---	---	10	---
LL345A	20	30	30	---	---	---	---	700	---	200	---
LL345B	20	---	---	---	---	---	---	300	---	150	---
LL345B	30	10	30	---	---	---	---	1,000	---	200	---
LL346A	70	10	30	---	---	---	---	500	---	500	---
LL347A	5	---	---	---	---	---	---	---	---	10	---
LL348A	5	50	5	---	---	---	---	200	---	50	---
LL349A	10	50	15	---	---	---	---	500	---	100	---
LL351A	5	20	15	---	---	---	---	500	---	100	---
LL352A	5	20	10	---	---	---	---	500	---	150	---
LL355A	30	20	20	---	---	---	---	500	---	200	---
LL357A	20	30	20	---	---	---	---	700	---	200	---
LL359A	50	---	---	---	---	---	---	300	---	150	---
LL366A	10	10	---	---	---	---	---	300	---	100	---
LL367A	70	---	---	---	---	---	---	500	---	500	---
LL368A	---	10	---	---	---	---	---	300	---	150	---
LL374A	---	20	---	---	---	---	---	---	---	---	---
LL404A	15	10	---	---	---	---	---	500	---	150	---
LL407A	10	10	---	---	---	---	---	200	---	100	---
LL407B	20	10	---	---	---	---	---	300	---	200	---

Table 5. Data for rock samples - (continued)

Sample No.	Y-ppm g	Zn-ppm g	Zr-ppm g	Au-ppm aa	Au-ppm aa	Au-ppm aa	Cd-ppm aa	Zn-ppm aa	Hg-ppm inst
LL301A	20	W	--	--	--	--	--	--	--
LL302A	W	W	--	--	--	--	--	--	--
LL303A	50	W	--	--	--	--	--	--	--
LL306A	30	W	--	--	--	--	--	--	--
LL308A	50	W	--	--	--	--	--	--	--
LL309A	10	W	--	--	--	--	--	--	--
LL313A	20	W	--	--	--	--	--	--	--
LL316A	30	W	--	--	--	--	--	--	--
LL318A	10	W	--	--	--	--	--	--	--
LL319A	20	W	--	--	--	--	--	--	--
LL320A	W	W	--	W	W	W	W	90	W
LL321A	30	W	--	W	W	W	W	80	W
LL321B	30	W	--	W	W	W	W	70	W
LL321B	30	W	100	W	W	10	W	60	<.02
LL324A	20	W	--	W	W	W	W	50	W
LL325A	50	W	300	W	W	W	W	50	--
LL327A	W	W	--	W	W	W	W	55	W
LL333A	10	W	--	W	W	W	W	75	W
LL335A	W	W	--	W	W	W	W	75	W
LL336A	10	W	--	W	W	W	W	55	W
LL338A	10	W	--	W	W	W	W	55	W
LL339A	10	W	300	W	W	W	W	50	--
LL339B	W	W	100	W	W	10	W	65	<.02
LL339B	10	W	200	W	W	W	W	70	--
LL341A	30	W	300	W	W	W	W	40	--
LL344A	100	W	50	W	W	W	W	20	--
LL345A	30	<200	100	W	W	W	W	80	--
LL345B	15	W	50	W	W	10	W	80	<.02
LL345B	50	<200	70	W	W	W	W	80	--
LL346A	20	<200	200	W	W	W	W	55	--
LL347A	W	W	50	W	W	W	W	25	--
LL348A	30	W	200	W	W	W	W	35	--
LL349A	30	W	70	W	W	W	W	80	--
LL351A	30	W	200	W	W	W	W	70	--
LL352A	30	W	100	W	W	W	W	50	--
LL355A	50	W	200	W	W	W	W	60	--
LL357A	50	W	300	W	W	W	W	60	--
LL359A	20	W	200	W	W	10	W	65	<.02
LL364A	30	W	200	W	W	10	W	100	<.02
LL367A	30	W	20	W	W	10	W	45	<.02
LL368A	20	W	150	W	W	10	W	50	<.02
LL374A	10	W	10	W	W	10	W	15	<.02
LL404A	20	W	100	W	W	70	W	70	<.02
LL407A	15	W	100	W	W	40	W	65	<.02
LL407B	50	W	200	W	W	10	W	55	<.02



Table 5. Data for rock samples - (continued)

Sample No.	Latitude	Longitude	UTM Easting	UTM Northing	Ca-ppt	Fe-ppt	Mg-ppt	Ti-ppt	Ag-ppt	Au-ppt
LI407B	35 52 28	117 58 56	501,605.07	3,969,828.8	5.0	7.00	2.00	.300		
LI413A	35 54 51	117 59 23	500,923.03	3,974,236.3	3.0	7.00	1.50	.300		
LI413B	35 54 51	117 59 23	500,923.03	3,974,236.3	2.0	5.00	1.50	.700		
LI413C	35 54 51	117 59 23	500,923.03	3,974,236.3	2.0	7.00	1.50	.300		
LI413D	35 54 51	117 59 23	500,923.03	3,974,236.3	2.0	7.00	1.50	.300		
LI413E	35 49 5	118 0 12	499,697.35	3,963,579.0	3.0	5.00	2.00	.700		
LI413F	35 47 0	118 0 3	499,933.12	3,959,703.8	2.0	2.00	.70	.200		
LI413G	35 47 0	118 0 2	499,941.22	3,959,703.8	1.0	3.00	5.00	.700		
LI413H	35 47 0	118 0 2	499,941.22	3,959,703.8	3.0	5.00	1.00	.500	.5	
LI413I	35 47 0	118 0 2	499,941.22	3,959,703.8	.5	.70	.50	.200		
LI413J	35 46 45	118 0 51	498,722.96	3,959,260.3	20.0	7.00	>10.00	.700		
LI413K	35 46 45	118 0 51	498,722.96	3,959,260.3	>20.0	.50	7.00	.050		
LI413L	35 59 26	118 0 41	498,966.10	3,982,703.3	.5	.70	.20	.070		
LI413M	35 59 34	118 0 34	499,155.42	3,982,952.8	3.0	2.00	1.00	.700		
LI413N	35 59 29	118 0 42	498,953.48	3,982,798.6	3.0	5.00	1.50	.700		
LI413O	35 58 57	118 1 13	498,181.66	3,981,811.7	2.0	3.00	1.50	.500		
LI413P	35 58 12	118 1 0	498,507.78	3,980,411.9	1.5	2.00	.50	.200		
LI413Q	35 45 25	118 0 37	499,076.09	3,956,780.3	1.0	5.00	1.00	.500		
LI413R	35 45 55	118 0 16	499,594.13	3,957,727.5	2.0	2.00	.70	.300		
LI413S	35 45 17	118 0 35	499,116.68	3,956,533.1	3.0	3.00	3.00	.300		
LI413T	35 47 54	118 0 23	499,431.61	3,961,369.7	3.0	2.00	1.00	.200		
LI413U	35 49 42	118 0 10	499,737.19	3,964,721.3	3.0	5.00	2.00	.500		
LI413V	35 50 30	118 0 6	499,840.15	3,966,196.4	1.0	2.00	.50	.200		
LI413W	35 48 20	118 0 50	498,746.82	3,962,175.0	.2	.50	.02	.050		
LI413X	35 49 43	118 0 11	499,729.00	3,964,730.2	2.0	2.00	1.50	.300		
LI413Y	35 46 0	118 0 7	499,811.98	3,978,828.8	.3	.30	.20	.050	1.5	
LI413Z	35 45 17	118 0 11	499,728.75	3,956,548.5	3.0	7.00	2.00	.700		
LI414A	35 58 28	118 0 12	499,709.73	3,980,927.5	2.0	2.00	1.00	.500		
LI414B	35 57 16	118 0 51	498,730.24	3,978,682.8	3.0	5.00	1.00	.500		
LI414C	35 57 16	118 0 51	498,730.24	3,978,682.8	2.0	7.00	1.00	.500		
LI414D	35 57 16	118 0 51	498,730.24	3,978,682.8	3.0	10.00	2.00	.500		
LI414E	36 0 45	118 2 4	496,898.22	3,985,122.8	7.0	7.00	3.00	.500		
LI414F	36 1 47	118 2 30	496,243.91	3,987,036.3	3.0	5.00	2.00	.700		
LI414G	36 2 37	118 2 41	495,960.82	3,988,573.6	5.0	7.00	2.00	.500		
LI414H	36 2 37	118 2 41	495,960.82	3,988,573.6	5.0	10.00	2.00	.500		
LI414I	36 2 37	118 2 41	495,960.82	3,988,573.6	2.0	3.00	1.50	.500		
LI414J	36 3 9	118 3 0	495,501.90	3,989,585.3	.7	2.00	1.00	.700		
LI414K	36 3 1	118 2 58	495,537.84	3,989,323.6	5.0	10.00	3.00	.500		
LI414L	36 2 58	118 1 43	497,420.31	3,989,221.8	3.0	5.00	1.50	.500		
LI414M	36 3 8	118 0 0	499,968.32	3,989,552.0	5.0	5.00	1.50	.500		
LI414N	36 2 22	118 0 28	499,302.74	3,988,112.4	2.0	1.50	.50	.200		
LI414O	36 2 13	118 0 12	499,687.36	3,987,847.3	5.0	10.00	2.00	1.000		
LI414P	36 2 59	118 2 37	496,070.14	3,989,274.5	2.0	3.00	1.00	.200		
LI414Q	36 2 59	118 2 34	496,149.34	3,989,275.6	2.0	3.00	1.00	.300		
LI414R	36 1 4	118 0 30	499,241.28	3,985,720.0	5.0	7.00	2.00	.500		
LI414S	36 3 19	118 3 3	495,426.39	3,989,893.7	1.0	3.00	.70	.500		

Table 5. Data for rock samples - (continued)

Sample No.	B-ppm	Ba-ppm	Be-ppm	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mn-ppm	Mo-ppm
LL407B	10	1,000	M	M	M	30	20	70	50	700	M
LL413A	M	700	<1.0	M	M	20	30	70	50	500	M
LL413B	M	500	<1.0	M	M	20	30	50	30	500	M
LL413C	M	700	<1.0	M	M	20	30	70	50	500	M
LF101A	70	1,000	M	M	M	30	50	70	100	2,000	M
LF102A	20	2,000	<5.0	M	M	5	20	30	100	700	M
LF102B	700	>5,000	M	M	M	M	150	100	100	500	15
LF102C	20	2,000	M	M	M	5	20	20	150	1,000	15
LF102D	20	>5,000	M	M	M	10	200	10	100	200	15
LF103A	30	1,000	M	M	M	20	300	30	200	3,000	20
LF103B	70	1,000	M	M	M	M	50	7	M	2,000	M
LF104A	10	50	<1.0	M	M	M	M	7	50	100	M
LF105A	15	1,000	1.0	M	M	7	M	20	50	70	M
LF106A	20	500	1.0	M	M	20	10	20	30	500	M
LF107A	20	1,000	1.0	M	M	30	15	20	30	500	M
LF108A	M	1,000	1.0	M	M	5	M	M	50	200	M
LF110A	15	300	1.5	M	M	30	100	30	20	300	M
LF111A	M	1,000	1.0	M	M	5	M	7	20	100	M
LF112A	10	1,500	2.0	M	M	7	70	30	30	500	M
LF114A	<10	1,500	2.0	M	M	5	M	5	70	500	M
LF121A	30	700	1.0	M	M	15	M	30	70	700	M
LF122A	<10	1,000	3.0	M	M	M	M	<5	50	300	M
LF125A	<10	M	1.0	M	M	M	M	5	M	100	M
LF201A	30	500	1.5	M	M	7	M	30	50	1,000	M
LF202A	10	700	M	M	M	M	100	50	M	20	7
LF207A	10	1,500	2.0	M	M	20	M	30	100	700	M
LF301A	10	1,000	1.0	M	M	5	M	15	30	500	M
LF309A	<10	1,000	<1.0	M	M	15	<10	15	50	500	M
LF309B	<10	1,000	<1.0	M	M	15	<10	30	30	500	M
LF309B	M	1,000	M	M	M	15	<10	50	70	700	M
MO101A	10	100	<1.0	M	M	70	50	150	20	700	M
MO105C	10	1,000	1.0	M	M	20	<10	30	50	1,000	M
MO107A	10	1,000	1.0	M	M	30	15	30	100	1,000	M
MO107B	M	700	M	M	M	20	20	70	50	500	M
MO107B	<10	1,500	1.0	M	M	20	<10	30	70	700	M
MO108F	10	1,000	1.0	M	M	5	M	10	70	1,000	M
MO109A	15	300	M	M	M	100	20	150	M	1,500	M
MO112A	<10	700	<1.0	M	M	20	<10	20	50	700	M
MO116A	15	1,500	1.0	M	M	15	<10	20	100	500	M
MO117B	10	1,000	1.0	M	M	5	M	<5	100	300	M
MO119B	10	1,000	1.0	M	M	50	10	100	70	1,000	M
MO121A	10	1,000	3.0	M	M	5	M	<5	70	700	M
MO123A	<10	1,500	2.0	M	M	7	M	15	70	700	M
MO301A	10	700	2.0	M	M	20	M	50	70	1,000	M
MO305A	<10	2,000	2.0	M	M	5	M	<5	20	700	M

Table 5. Data for rock samples - (continued)

Sample No.	Hb-ppm	Ni-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sr-ppm	Th-ppm	V-ppm	W-ppm
LL407B	N	20	20	N	--	300	N	100	N
LL413A	N	15	30	N	--	300	N	100	N
LL413B	N	10	10	N	--	200	N	100	N
LL413C	N	20	10	N	--	200	N	100	N
LP101A	<20	20	70	N	--	1,000	N	200	N
LP102A	N	15	70	N	--	1,000	N	70	N
LP102B	<20	10	50	N	--	300	N	500	N
LP102C	<20	10	100	N	--	2,000	N	100	N
LP102D	N	500	N	N	--	100	N	10,000	N
LP103A	<20	50	N	N	--	700	N	500	N
LP103B	N	10	20	N	--	1,500	N	150	N
LP104A	N	5	30	N	--	N	N	10	N
LP105A	N	5	20	N	--	500	N	50	N
LP106A	N	15	15	N	--	500	N	150	N
LP107A	N	20	15	N	--	700	N	100	N
LP108A	N	7	15	N	--	500	N	70	N
LP110A	<20	70	15	N	--	100	N	70	N
LP111A	N	5	15	N	--	500	N	50	N
LP112A	N	30	10	N	10	200	N	200	N
LP114A	N	<5	20	N	5	1,000	N	30	N
LP121A	20	10	30	N	15	700	N	150	N
LP122A	N	5	30	N	5	700	N	30	N
LP125A	N	20	20	N	--	N	N	<10	N
LP201A	<20	<5	15	N	--	300	N	70	N
LP202A	N	70	N	N	--	100	N	2,000	N
LP207A	N	10	20	N	10	1,500	N	200	N
LP301A	N	5	10	N	--	500	N	70	N
LP309A	N	7	20	N	--	300	N	70	N
LP309B	N	10	20	N	--	300	N	100	N
LP309B	N	N	30	N	--	300	N	150	N
MO101A	N	50	10	N	--	500	N	200	N
MO105C	N	10	15	N	--	500	N	150	N
MO107A	N	15	15	N	--	700	N	150	N
MO107B	N	10	10	N	--	500	N	100	N
MO107B	N	7	20	N	--	500	N	70	N
MO108F	<20	10	70	N	--	200	<100	50	N
MO109A	N	70	10	N	--	500	N	300	N
MO112A	N	10	15	N	--	500	N	100	N
MO116A	N	7	20	N	--	700	N	100	N
MO117B	N	5	30	N	--	500	N	50	N
MO119B	<20	20	10	N	--	700	N	200	N
MO121A	N	5	20	N	10	500	N	70	N
MO123A	N	5	30	N	20	700	N	70	N
MO301A	N	10	20	N	20	1,000	N	200	N
MO305A	20	<5	50	N	5	500	N	50	N

Table 5. Data for rock samples - (continued)

Sample No.	Y-ppm #	Zn-ppm #	Zr-ppm #	As-ppm aa	Au-ppm aa	Au-ppm aa	Cd-ppm aa	Zn-ppm aa	Hg-ppm inst
LL407B	20	#	150	#	#	10	#	60	<.02
LL413A	20	#	150	#	#	10	#	50	<.02
LL413B	15	#	70	#	#	10	#	55	<.02
LL413C	15	#	50	#	#	10	#	50	<.02
LP101A	50	#	--	#	#	--	#	50	#
LP102A	10	#	--	#	#	--	#	30	<.02
LP102B	50	#	--	#	#	--	#	30	<.02
LP102C	20	#	--	#	#	--	#	55	.02
LP102D	30	#	--	#	#	--	.3	65	.02
LP103A	100	#	--	#	#	--	#	5	<.02
LP103B	10	#	--	#	#	--	#	10	.04
LP104A	#	#	--	--	--	--	--	--	--
LP105A	20	#	--	--	--	--	--	--	--
LP106A	20	#	--	--	--	--	--	--	--
LP107A	15	#	--	--	--	--	--	--	--
LP108A	20	#	--	#	#	--	#	50	#
LP110A	30	#	--	#	#	--	#	120	.02
LP111A	15	#	--	#	#	--	#	55	--
LP112A	30	#	500	#	#	--	#	70	--
LP114A	10	#	300	#	#	--	--	40	--
LP121A	50	#	150	#	#	--	--	50	--
LP122A	10	#	200	#	#	--	--	80	--
LP125A	#	#	70	#	#	10	#	15	<.02
LP201A	30	#	--	--	--	--	--	--	--
LP202A	#	300	--	--	--	--	--	--	--
LP207A	30	#	300	#	#	--	--	75	--
LP301A	30	#	--	--	--	--	--	--	--
LP309A	20	#	70	#	#	10	#	55	<.02
LP309B	30	#	300	#	#	10	#	50	<.02
LP309C	20	#	150	#	#	10	#	50	<.02
MO101A	50	#	--	--	--	--	--	--	--
MO105C	70	#	--	--	--	--	--	--	--
MO107A	50	#	--	--	--	--	--	--	--
MO107B	20	#	200	#	#	10	.1	75	<.02
MO107C	50	#	--	--	--	--	--	--	--
MO108F	20	#	--	--	--	--	--	--	--
MO109A	20	#	--	--	--	--	--	--	--
MO112A	30	#	--	--	--	--	--	--	--
MO116A	20	#	--	--	--	--	--	--	--
MO117B	15	#	--	--	--	--	--	--	--
MO119B	50	#	--	--	--	--	--	--	--
MO121A	50	#	200	#	#	--	--	55	--
MO123A	30	#	300	#	#	--	--	65	--
MO301A	30	#	500	#	#	--	--	70	--
MO305A	30	#	300	#	#	--	--	55	--

Table 5. Data for rock samples - (continued)

Sample No.	Latitude	Longitude	DTM		Ca-pct	Fe-pct	Mg-pct	Ti-pct	Ag-ppm	As-ppm	Au-ppm
			Easting	Northing							
OX201A	35 43 23	118 0 10	499,740.46	3,953,042.8	5.0	7.00	2.00	.700	N	N	N
OX203A	35 44 59	118 0 16	499,608.54	3,955,981.8	20.0	.50	1.00	.020	N	N	N
OX301A	35 44 43	118 0 8	499,805.64	3,955,497.1	15.0	7.00	5.00	.300	N	N	N

Table 5. Data for rock samples - (continued)

Sample No.	B-ppm	Ba-ppm	Be-ppm	Bi-ppm	Cd-ppm	Co-ppm	Cr-ppm	Cu-ppm	La-ppm	Mn-ppm	Mo-ppm
OX201A	10	700	2.0	N	N	20	N	30	30	1,000	N
OX203A	10	500	N	N	N	N	N	<5	N	100	N
OX301A	10	100	<1.0	N	N	20	100	<5	N	200	N

Table 5. Data for rock samples - (continued)

Sample No.	Mb-ppm	Mi-ppm	Pb-ppm	Sb-ppm	Sc-ppm	Sn-ppm	Sr-ppm	Ta-ppm	V-ppm	W-ppm
OX201A	N	5	20	N	10	N	1,000	N	200	N
OX203A	N	5	N	N	N	N	1,000	N	30	N
OX301A	N	30	10	N	10	N	300	N	70	N

Table 5. Data for rock samples - (continued)

Sample No.	Y-ppm g	Ko-ppm g	Er-ppm g	As-ppm g	Au-ppm g	Au-ppm g	Cd-ppm g	Su-ppm g	Hg-ppm inst
OX201A	20	200	200	M	--	--	--	150	--
OX203A	20	M	100	M	--	--	--	15	--
OX301A	30	M	300	M	--	--	--	5	--



EXPLANATION OF TABLE 6

S = spectrographic analysis  
 AA = atomic absorption analysis  
 INST = fluorimetric analysis  
 VALUE = the analytical value  
 NO. = number of occurrences of this value  
 % = NO. as percent of total number of data values (ANAL)  
 CUM = number of unqualified records at and below this value  
 CUM %  
 (col 1) = unqualified values at or below this value, as percent of ANAL  
 (col 2) = unqualified values above this value, as percent of ANAL  
 TOT CUM = number of values (N, L, ,T + unqual.) at or below this value  
 TOT CUM %  
 (col 1) = values not B, H, or OTHER at or below this value, as percent of ANAL  
 (col 2) = values not B, H, or OTHER above this value, as percent of ANAL

-----  
 B - value = number of values qualified with 'B' (= no data)  
 - percent = percent of all samples read (READ)  
 T - value = number of values qualified with 'T' (= trace)  
 - percent = percent of all values not B, H, or OTHER (ANAL)  
 H - value = number of values qualified with 'H' (= interference)  
 - percent = percent of all values not B, H, or OTHER (ANAL)  
 N - value = number of values qualified with 'N' (= not detected)  
 - percent = percent of all values not B, H, or OTHER (ANAL)  
 L - value = number of values qualified with 'L' (= less than)  
 - percent = percent of all values not B, H, or OTHER (ANAL)  
 G - value = number of values qualified with 'G' (= greater than)  
 - percent = percent of all values not B, H, or OTHER (ANAL)  
 OTHER = number of qualified values which are not B, T, H, N, L, or G  
 - percent = percent of all records read (READ)  
 UNQUAL = number of unqualified data values  
 - percent = percent of values not B, H, or OTHER (ANAL)  
 ANAL = total number of valid data values (= unqualified = N, L, T, or G)  
 READ = number of samples read

-----  
 MIN = minimum unqualified value  
 MAX = maximum unqualified value  
 AMEAN = arithmetic mean of unqualified values  
 SD = standard deviation of the unqualified values  
 GMEAN = geometric mean of unqualified values  
 GD = geometric deviation of unqualified values  
 VALUES = number of data values used to compute the above statistics.

Table 6--Frequency tables and histograms for rock samples

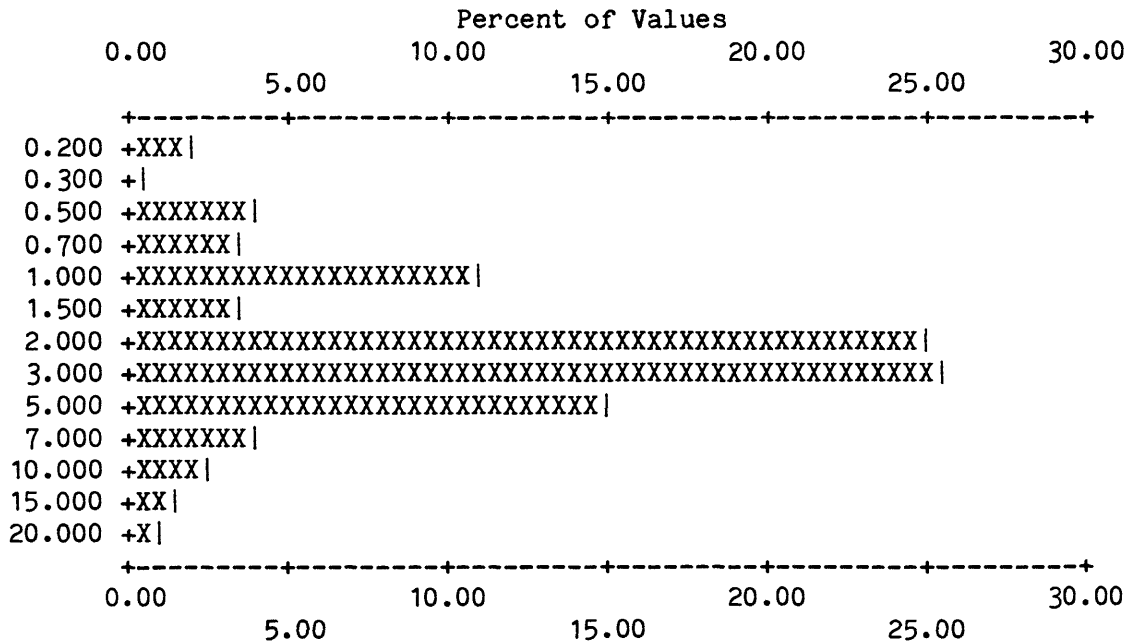
S-Ca, percent

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.200	4	2.19	4	2.2	96.7	4 2.2 97.8
2	0.300	1	0.55	5	2.7	96.2	5 2.7 97.3
3	0.500	7	3.83	12	6.6	92.3	12 6.6 93.4
4	0.700	6	3.28	18	9.8	89.1	18 9.8 90.2
5	1.000	20	10.93	38	20.8	78.1	38 20.8 79.2
6	1.500	6	3.28	44	24.0	74.9	44 24.0 76.0
7	2.000	46	25.14	90	49.2	49.7	90 49.2 50.8
8	3.000	47	25.68	137	74.9	24.0	137 74.9 25.1
9	5.000	27	14.75	164	89.6	9.3	164 89.6 10.4
10	7.000	7	3.83	171	93.4	5.5	171 93.4 6.6
11	10.000	5	2.73	176	96.2	2.7	176 96.2 3.8
12	15.000	3	1.64	179	97.8	1.1	179 97.8 2.2
13	20.000	2	1.09	181	98.9	0.0	181 98.9 1.1

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	0	0	2	0	181	183	183	VALUES
0.0	0.0	0.0	0.0	0.0	1.1	0.0	98.9			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.200	20.00	3.259	3.09	2.342	2.32	181



Each increment (each X or | plotted) = 0.500 %

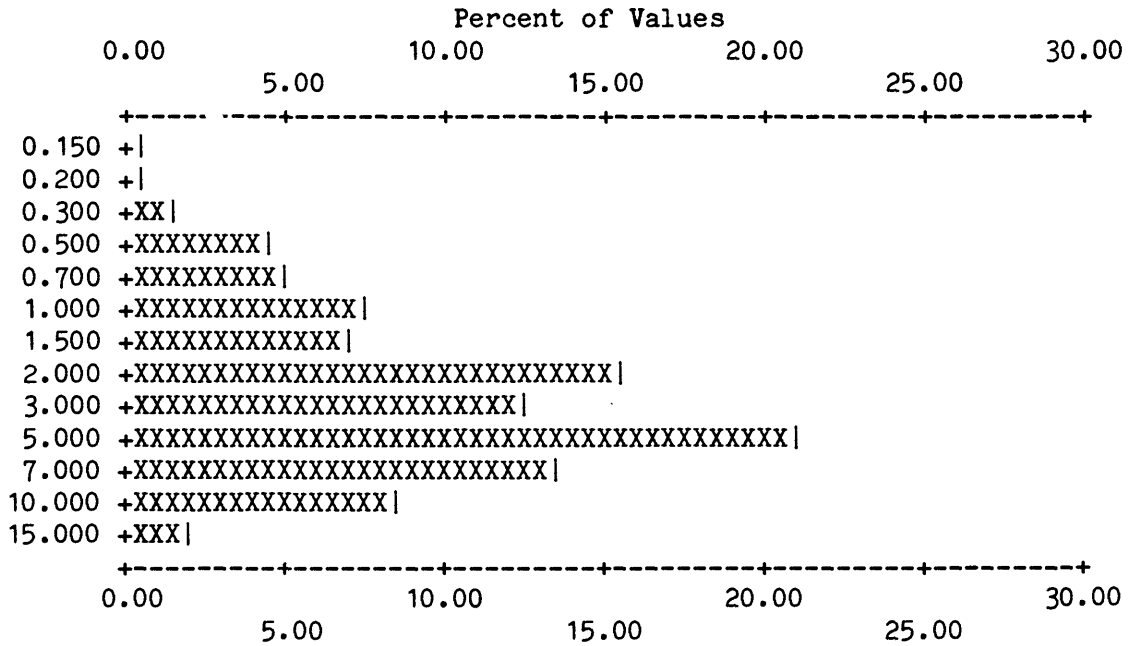
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Fe, percent

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.150	1	0.55	1	0.5	99.5	1 0.5 99.5
2	0.200	1	0.55	2	1.1	98.9	2 1.1 98.9
3	0.300	3	1.64	5	2.7	97.3	5 2.7 97.3
4	0.500	8	4.37	13	7.1	92.9	13 7.1 92.9
5	0.700	9	4.92	22	12.0	88.0	22 12.0 88.0
6	1.000	14	7.65	36	19.7	80.3	36 19.7 80.3
7	1.500	13	7.10	49	26.8	73.2	49 26.8 73.2
8	2.000	28	15.30	77	42.1	57.9	77 42.1 57.9
9	3.000	23	12.57	100	54.6	45.4	100 54.6 45.4
10	5.000	38	20.77	138	75.4	24.6	138 75.4 24.6
11	7.000	25	13.66	163	89.1	10.9	163 89.1 10.9
12	10.000	16	8.74	179	97.8	2.2	179 97.8 2.2
13	15.000	4	2.19	183	100.0	0.0	183 100.0 0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	0	0	0	0	183	183	183	VALUES
0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.150	15.00	4.126	3.26	2.848	2.60	183



Each increment (each X or | plotted) = 0.500 %

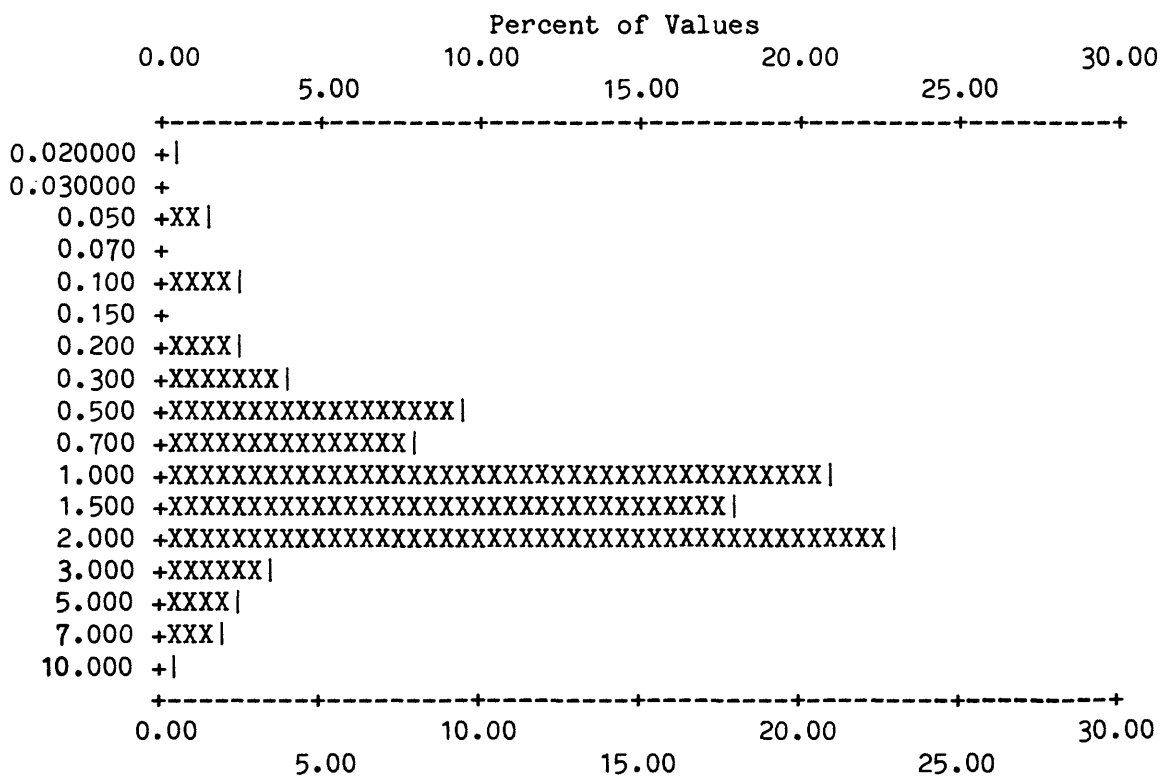
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Mg, percent

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.020	1	0.55	1	0.5	98.9	1 0.5 99.5
2	0.050	3	1.64	4	2.2	97.3	4 2.2 97.8
3	0.100	5	2.73	9	4.9	94.5	9 4.9 95.1
4	0.200	5	2.73	14	7.7	91.8	14 7.7 92.3
5	0.300	7	3.83	21	11.5	88.0	21 11.5 88.5
6	0.500	17	9.29	38	20.8	78.7	38 20.8 79.2
7	0.700	15	8.20	53	29.0	70.5	53 29.0 71.0
8	1.000	38	20.77	91	49.7	49.7	91 49.7 50.3
9	1.500	33	18.03	124	67.8	31.7	124 67.8 32.2
10	2.000	42	22.95	166	90.7	8.7	166 90.7 9.3
11	3.000	6	3.28	172	94.0	5.5	172 94.0 6.0
12	5.000	5	2.73	177	96.7	2.7	177 96.7 3.3
13	7.000	4	2.19	181	98.9	0.5	181 98.9 1.1
14	10.000	1	0.55	182	99.5	0.0	182 99.5 0.5

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	0	0	1	0	182	183	183	VALUES
0.0	0.0	0.0	0.0	0.0	0.5	0.0	99.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.020	10.00	1.512	1.39	1.052	2.62	182



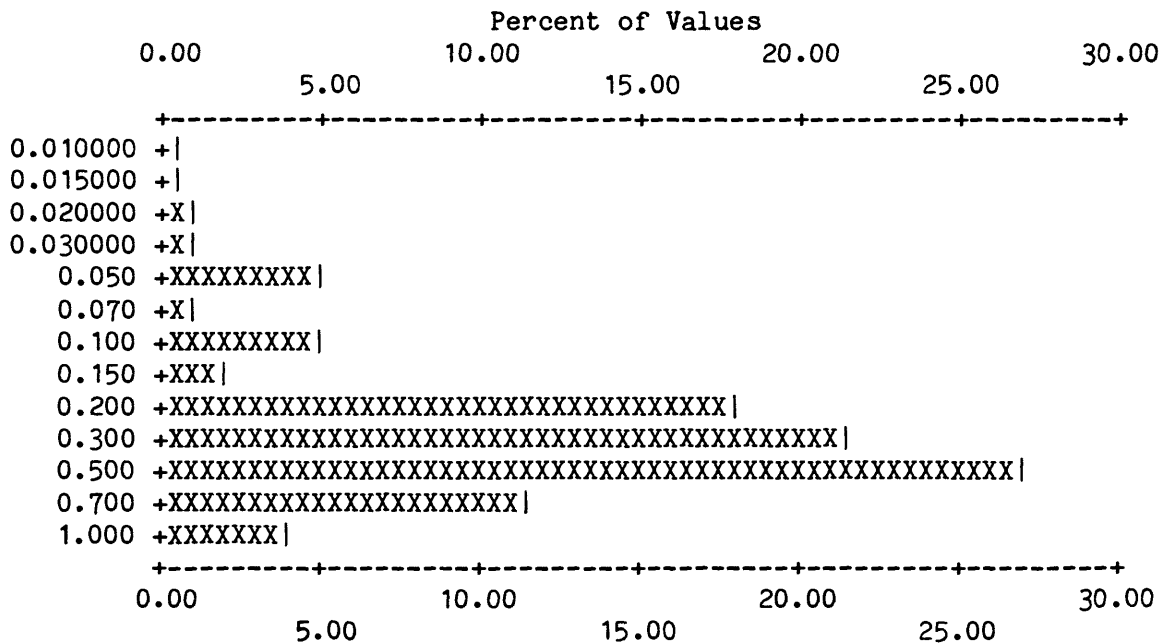
Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

S-Ti, percent

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.010	1	0.55	1	0.5	97.3	1 0.5 99.5
2	0.015	1	0.55	2	1.1	96.7	2 1.1 98.9
3	0.020	2	1.09	4	2.2	95.6	4 2.2 97.8
4	0.030	2	1.09	6	3.3	94.5	6 3.3 96.7
5	0.050	9	4.92	15	8.2	89.6	15 8.2 91.8
6	0.070	2	1.09	17	9.3	88.5	17 9.3 90.7
7	0.100	9	4.92	26	14.2	83.6	26 14.2 85.8
8	0.150	4	2.19	30	16.4	81.4	30 16.4 83.6
9	0.200	33	18.03	63	34.4	63.4	63 34.4 65.6
10	0.300	39	21.31	102	55.7	42.1	102 55.7 44.3
11	0.500	49	26.78	151	82.5	15.3	151 82.5 17.5
12	0.700	21	11.48	172	94.0	3.8	172 94.0 6.0
13	1.000	7	3.83	179	97.8	0.0	179 97.8 2.2

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	0	0	4	0	179	183	183	VALUES
0.0	0.0	0.0	0.0	0.0	2.2	0.0	97.8			PERCENT
MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES				
0.010	1.00	0.373	0.23	0.283	2.39	179				



Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

S-Ag, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %	
1	0.500	2	1.09	2	1.1	181	98.9	1.1
2	1.500	2	1.09	4	2.2	183	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	171	8	0	0	4	183	183	VALUES
0.0	0.0	0.0	93.4	4.4	0.0	0.0	2.2			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.500	1.50	1.000	0.58	0.866	1.89	4

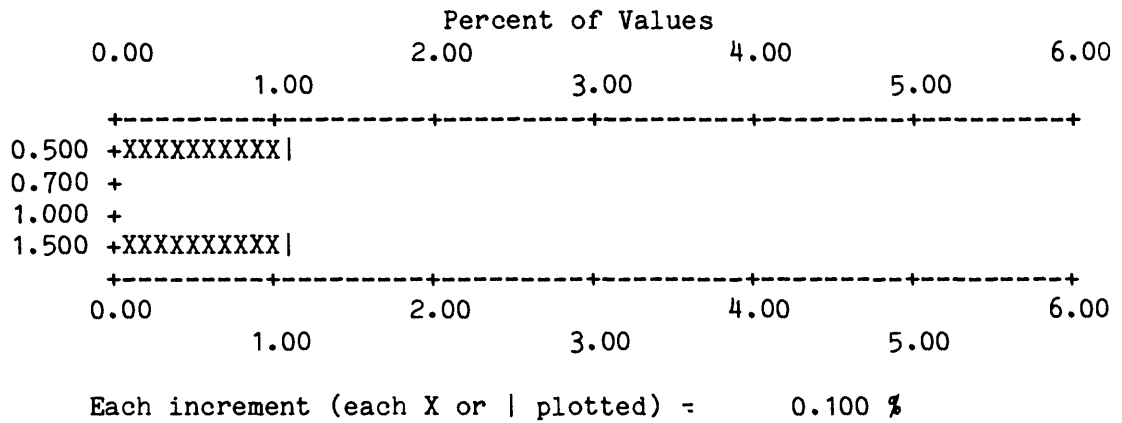


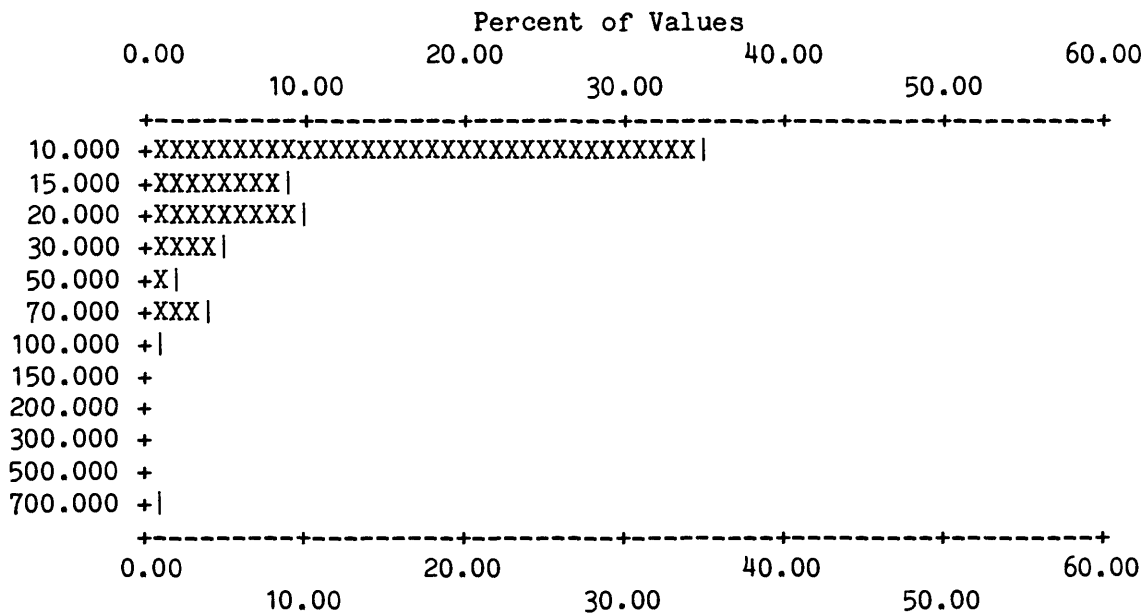
Table 6--Frequency tables and histograms for rock samples - (continued)

S-B, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	64	34.97	64	35.0	125	68.3
2	15.000	16	8.74	80	43.7	141	77.0
3	20.000	19	10.38	99	54.1	160	87.4
4	30.000	10	5.46	109	59.6	170	92.9
5	50.000	4	2.19	113	61.7	174	95.1
6	70.000	7	3.83	120	65.6	181	98.9
7	100.000	1	0.55	121	66.1	182	99.5
8	700.000	1	0.55	122	66.7	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	18	43	0	0	122	183	183	VALUES
0.0	0.0	0.0	9.8	23.5	0.0	0.0	66.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	700.00	25.000	63.94	15.989	1.99	122



Each increment (each X or | plotted) = 1.000 %

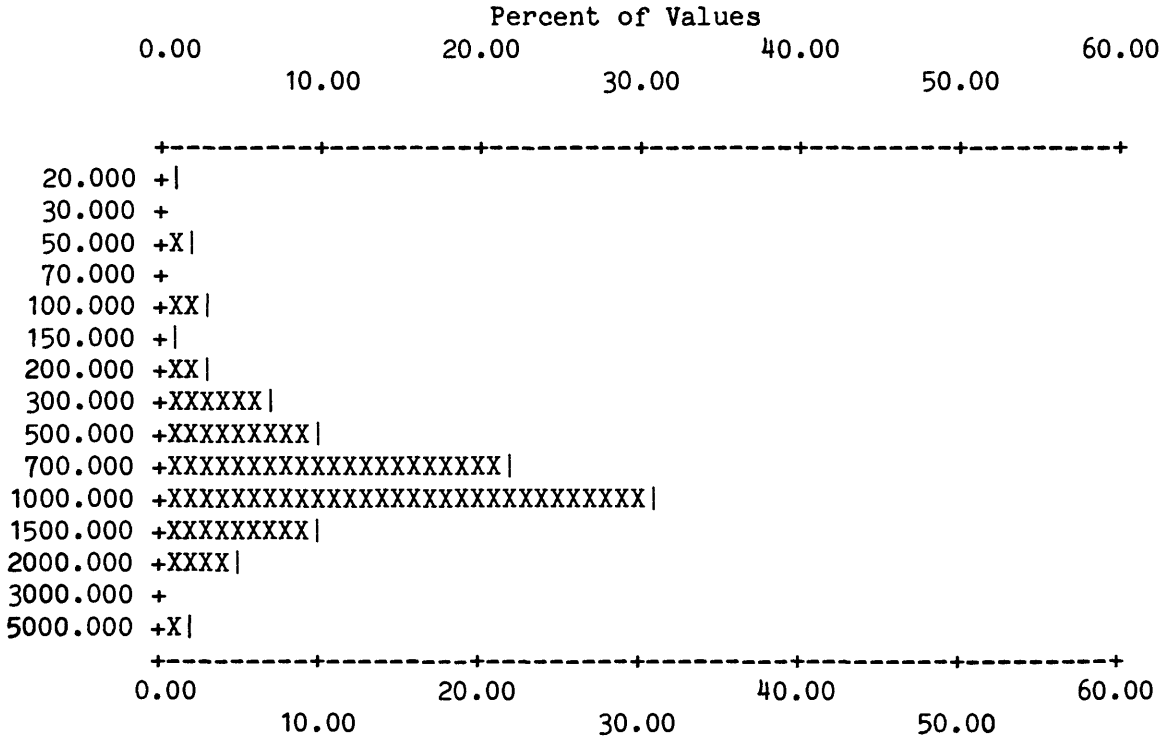
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Ba, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	20.000	1	0.55	1	0.5	96.2	5 2.7 97.3
2	50.000	4	2.19	5	2.7	94.0	9 4.9 95.1
3	100.000	6	3.28	11	6.0	90.7	15 8.2 91.8
4	150.000	2	1.09	13	7.1	89.6	17 9.3 90.7
5	200.000	6	3.28	19	10.4	86.3	23 12.6 87.4
6	300.000	12	6.56	31	16.9	79.8	35 19.1 80.9
7	500.000	19	10.38	50	27.3	69.4	54 29.5 70.5
8	700.000	41	22.40	91	49.7	47.0	95 51.9 48.1
9	1000.000	56	30.60	147	80.3	16.4	151 82.5 17.5
10	1500.000	18	9.84	165	90.2	6.6	169 92.3 7.7
11	2000.000	9	4.92	174	95.1	1.6	178 97.3 2.7
12	5000.000	3	1.64	177	96.7	0.0	181 98.9 1.1

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	2	2	2	0	177	183	183	VALUES
0.0	0.0	0.0	1.1	1.1	1.1	0.0	96.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	5000.00	904.633	710.82	684.722	2.34	177



Each increment (each X or | plotted) = 1.000 %



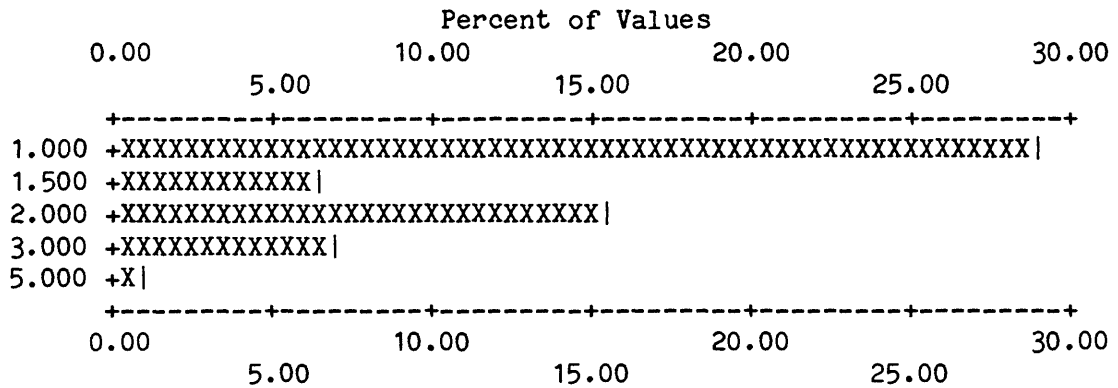
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Be, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	1.000	53	28.96	53	29.0	128	69.9
2	1.500	12	6.56	65	35.5	140	76.5
3	2.000	28	15.30	93	50.8	168	91.8
4	3.000	13	7.10	106	57.9	181	98.9
5	5.000	2	1.09	108	59.0	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	44	31	0	0	108	183	183	VALUES
0.0	0.0	0.0	24.0	16.9	0.0	0.0	59.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
1.000	5.00	1.630	0.82	1.472	1.54	108



Each increment (each X or | plotted) = 0.500 %

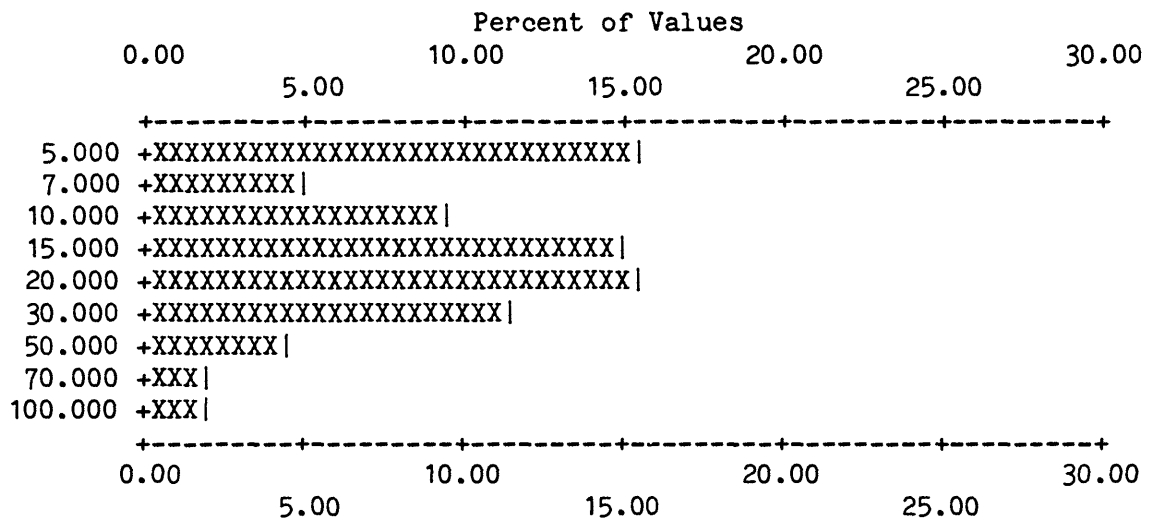
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Co, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	28	15.30	28	15.3	65	35.5
2	7.000	9	4.92	37	20.2	74	40.4
3	10.000	17	9.29	54	29.5	91	49.7
4	15.000	27	14.75	81	44.3	118	64.5
5	20.000	28	15.30	109	59.6	146	79.8
6	30.000	21	11.48	130	71.0	167	91.3
7	50.000	8	4.37	138	75.4	175	95.6
8	70.000	4	2.19	142	77.6	179	97.8
9	100.000	4	2.19	146	79.8	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	37	0	0	0	146	183	183	VALUES
0.0	0.0	0.0	20.2	0.0	0.0	0.0	79.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	100.00	20.877	19.47	15.153	2.20	146



Each increment (each X or | plotted) = 0.500 %

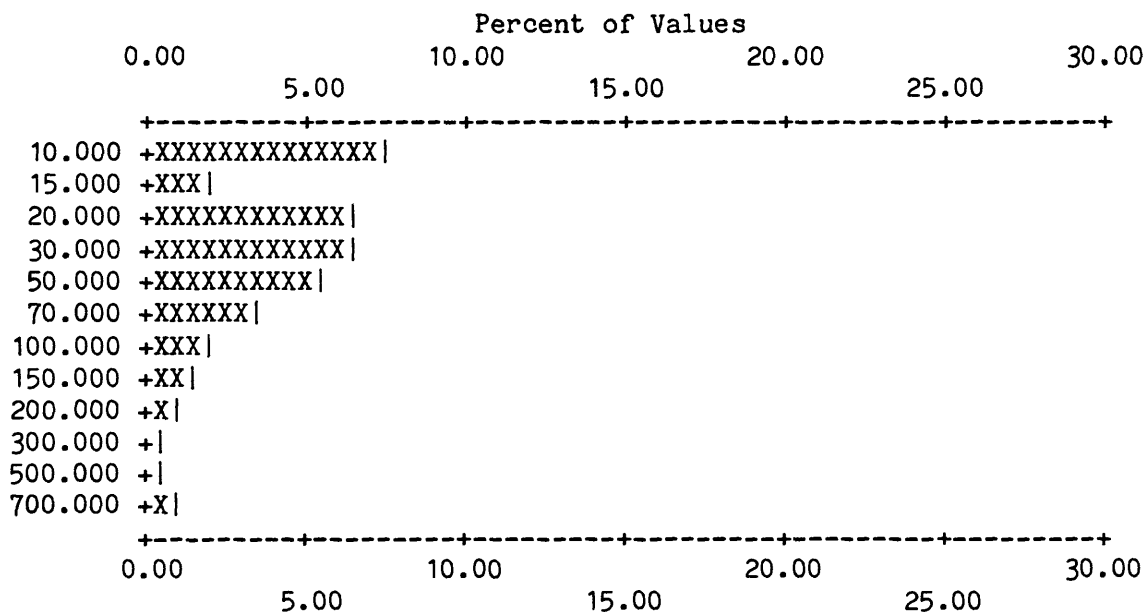
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Cr, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	14	7.65	14	7.7	126	68.9
2	15.000	4	2.19	18	9.8	130	71.0
3	20.000	12	6.56	30	16.4	142	77.6
4	30.000	12	6.56	42	23.0	154	84.2
5	50.000	10	5.46	52	28.4	164	89.6
6	70.000	6	3.28	58	31.7	170	92.9
7	100.000	4	2.19	62	33.9	174	95.1
8	150.000	3	1.64	65	35.5	177	96.7
9	200.000	2	1.09	67	36.6	179	97.8
10	300.000	1	0.55	68	37.2	180	98.4
11	500.000	1	0.55	69	37.7	181	98.9
12	700.000	2	1.09	71	38.8	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	96	16	0	0	71	183	183	
0.0	0.0	0.0	52.5	8.7	0.0	0.0	38.8			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	700.00	72.817	131.11	35.538	2.90	71



Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

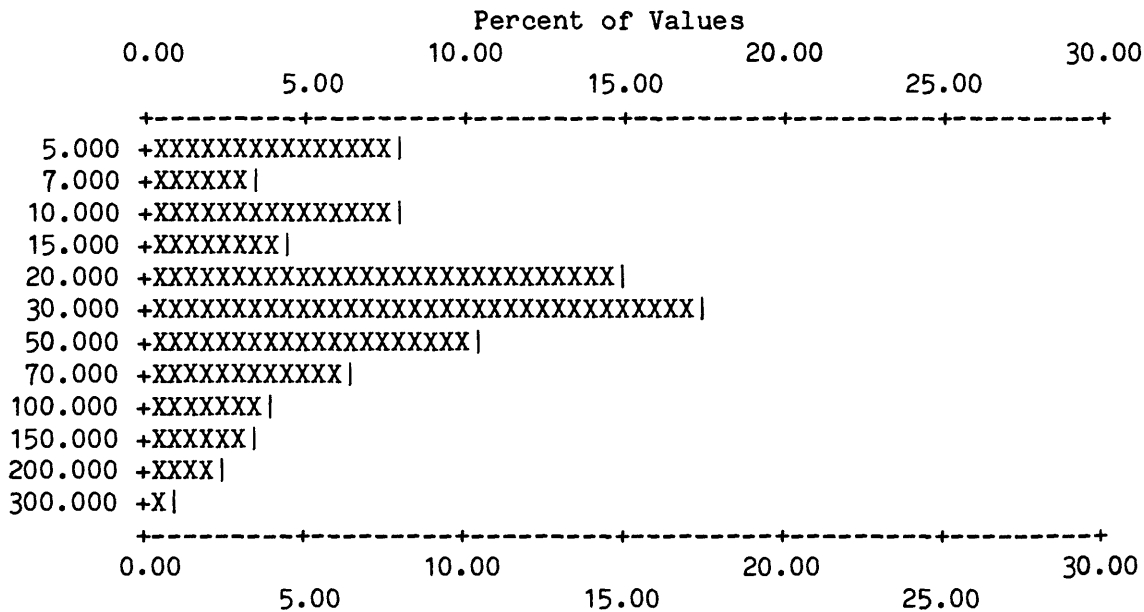
S-Cu, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	15	8.20	15	8.2	44	24.0
2	7.000	6	3.28	21	11.5	50	27.3
3	10.000	15	8.20	36	19.7	65	35.5
4	15.000	8	4.37	44	24.0	73	39.9
5	20.000	27	14.75	71	38.8	100	54.6
6	30.000	32	17.49	103	56.3	132	72.1
7	50.000	19	10.38	122	66.7	151	82.5
8	70.000	12	6.56	134	73.2	163	89.1
9	100.000	7	3.83	141	77.0	170	92.9
10	150.000	6	3.28	147	80.3	176	96.2
11	200.000	5	2.73	152	83.1	181	98.9
12	300.000	2	1.09	154	84.2	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	8	21	0	0	154	183	183	VALUES
0.0	0.0	0.0	4.4	11.5	0.0	0.0	84.2			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	300.00	44.656	52.88	26.946	2.72	154



Each increment (each X or | plotted) = 0.500 %

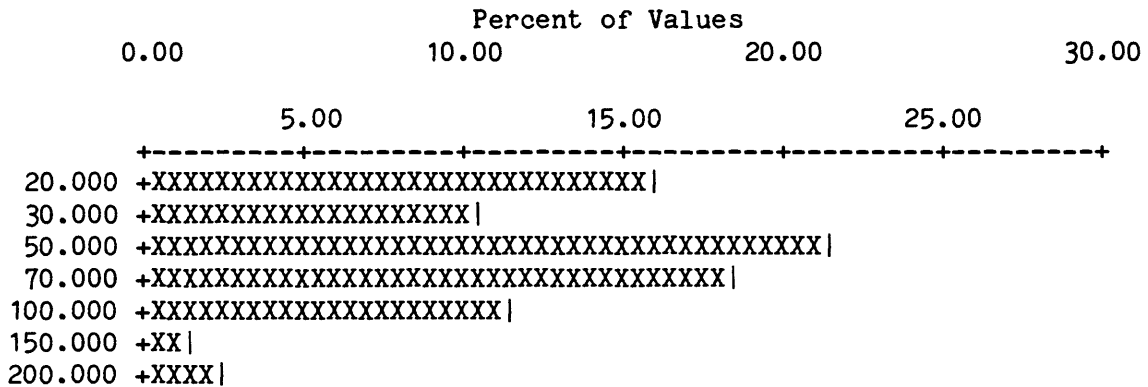
Table 6--Frequency tables and histograms for rock samples - (continued)

S-La, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	20.000	29	15.85	29	15.8	62	33.9
2	30.000	19	10.38	48	26.2	81	44.3
3	50.000	39	21.31	87	47.5	120	65.6
4	70.000	34	18.58	121	66.1	154	84.2
5	100.000	21	11.48	142	77.6	175	95.6
6	150.000	3	1.64	145	79.2	178	97.3
7	200.000	5	2.73	150	82.0	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	33	0	0	0	150	183	183	VALUES
0.0	0.0	0.0	18.0	0.0	0.0	0.0	82.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	200.00	60.200	39.01	49.982	1.85	150



Each increment (each X or | plotted) = 0.500 %

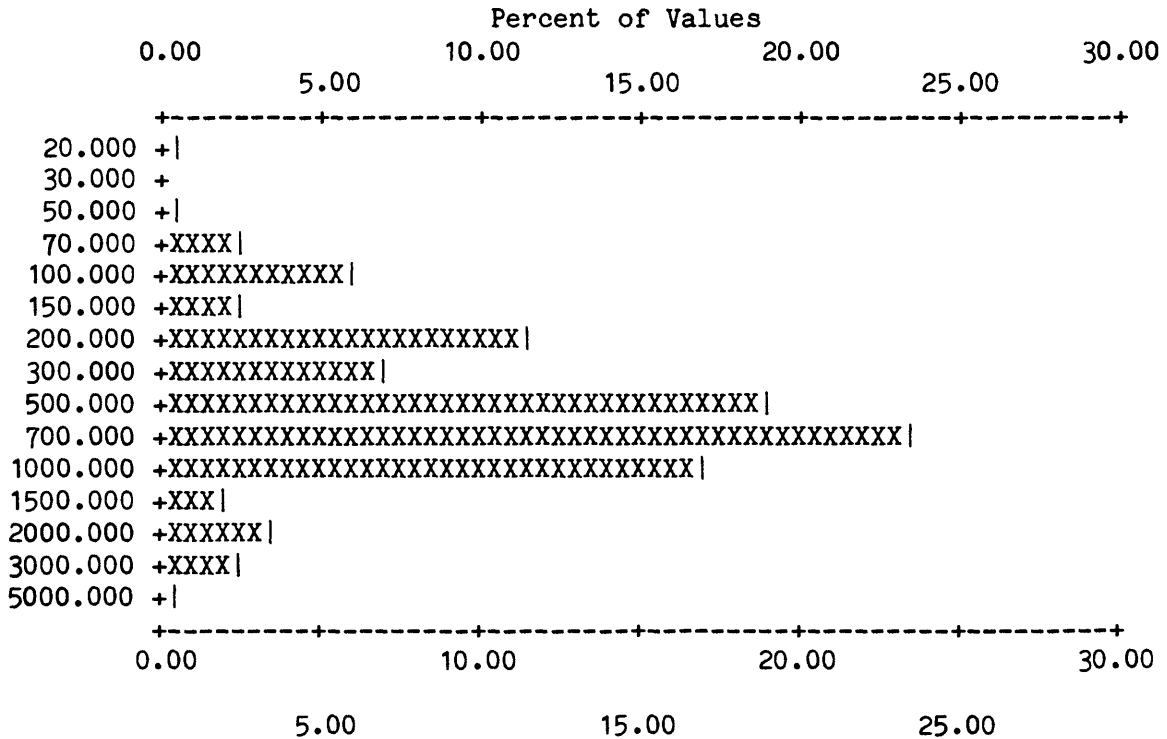
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Mn, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	20.000	1	0.55	1	0.5	98.9	1 0.5 99.5
2	50.000	1	0.55	2	1.1	98.4	2 1.1 98.9
3	70.000	5	2.73	7	3.8	95.6	7 3.8 96.2
4	100.000	11	6.01	18	9.8	89.6	18 9.8 90.2
5	150.000	5	2.73	23	12.6	86.9	23 12.6 87.4
6	200.000	21	11.48	44	24.0	75.4	44 24.0 76.0
7	300.000	13	7.10	57	31.1	68.3	57 31.1 68.9
8	500.000	35	19.13	92	50.3	49.2	92 50.3 49.7
9	700.000	43	23.50	135	73.8	25.7	135 73.8 26.2
10	1000.000	31	16.94	166	90.7	8.7	166 90.7 9.3
11	1500.000	4	2.19	170	92.9	6.6	170 92.9 7.1
12	2000.000	6	3.28	176	96.2	3.3	176 96.2 3.8
13	3000.000	5	2.73	181	98.9	0.5	181 98.9 1.1
14	5000.000	1	0.55	182	99.5	0.0	182 99.5 0.5

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	0	0	1	0	182	183	183	VALUES
0.0	0.0	0.0	0.0	0.0	0.5	0.0	99.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	5000.00	697.637	654.36	486.373	2.48	182



Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

S-Mo, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	1	0.55	1	0.5	176	96.2
2	7.000	1	0.55	2	1.1	177	96.7
3	10.000	1	0.55	3	1.6	178	97.3
4	15.000	4	2.19	7	3.8	182	99.5
5	20.000	1	0.55	8	4.4	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ
0	0								
0	175	0	0	0	0	8	183	183	VALUES
0.0	0.0	0.0	95.6	0.0	0.0	0.0	4.4		PERCENT
MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES			
5.000	20.00	12.750	4.98	11.713	1.60	8			

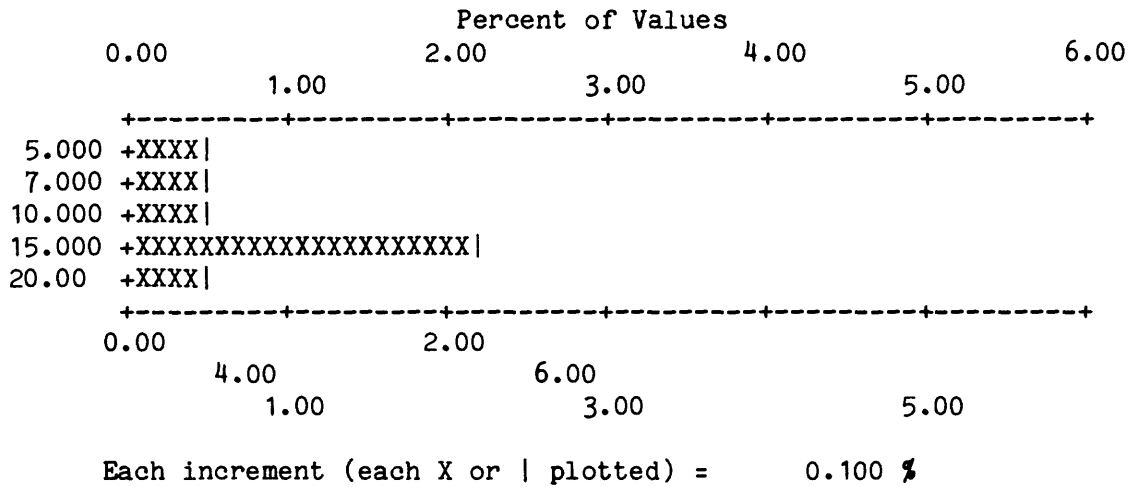






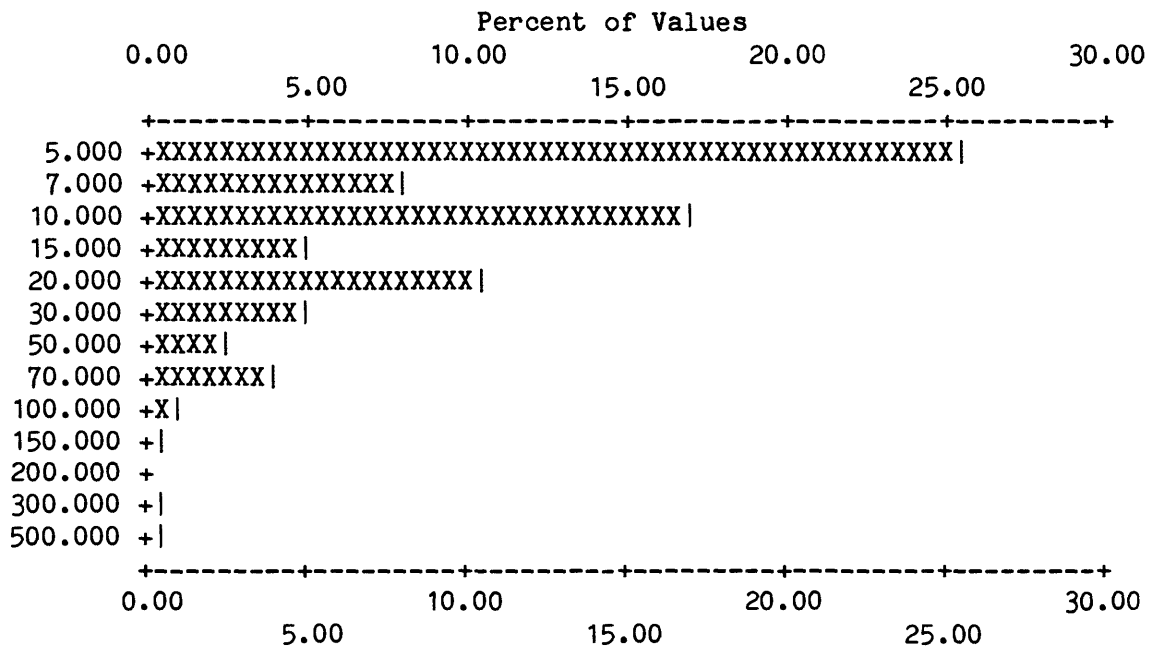
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Ni, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	47	25.68	47	25.7	83	45.4
2	7.000	15	8.20	62	33.9	98	53.6
3	10.000	31	16.94	93	50.8	129	70.5
4	15.000	9	4.92	102	55.7	138	75.4
5	20.000	19	10.38	121	66.1	157	85.8
6	30.000	9	4.92	130	71.0	166	90.7
7	50.000	5	2.73	135	73.8	171	93.4
8	70.000	7	3.83	142	77.6	178	97.3
9	100.000	2	1.09	144	78.7	180	98.4
10	150.000	1	0.55	145	79.2	181	98.9
11	300.000	1	0.55	146	79.8	182	99.5
12	500.000	1	0.55	147	80.3	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	29	7	0	0	147	183	183	VALUES
0.0	0.0	0.0	15.8	3.8	0.0	0.0	80.3			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	500.00	22.619	50.80	11.860	2.53	147



Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

S-Pb, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	34	18.58	34	18.6	58	31.7
2	15.000	30	16.39	64	35.0	88	48.1
3	20.000	43	23.50	107	58.5	131	71.6
4	30.000	29	15.85	136	74.3	160	87.4
5	50.000	10	5.46	146	79.8	170	92.9
6	70.000	10	5.46	156	85.2	180	98.4
7	100.000	3	1.64	159	86.9	183	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ
0	0								
0	20	4	0	0	159	183	183	183	VALUES
0.0	0.0	0.0	10.9	2.2	0.0	0.0	86.9		PERCENT
MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES			
10.000	100.00	25.283	18.79	20.780	1.81	159			

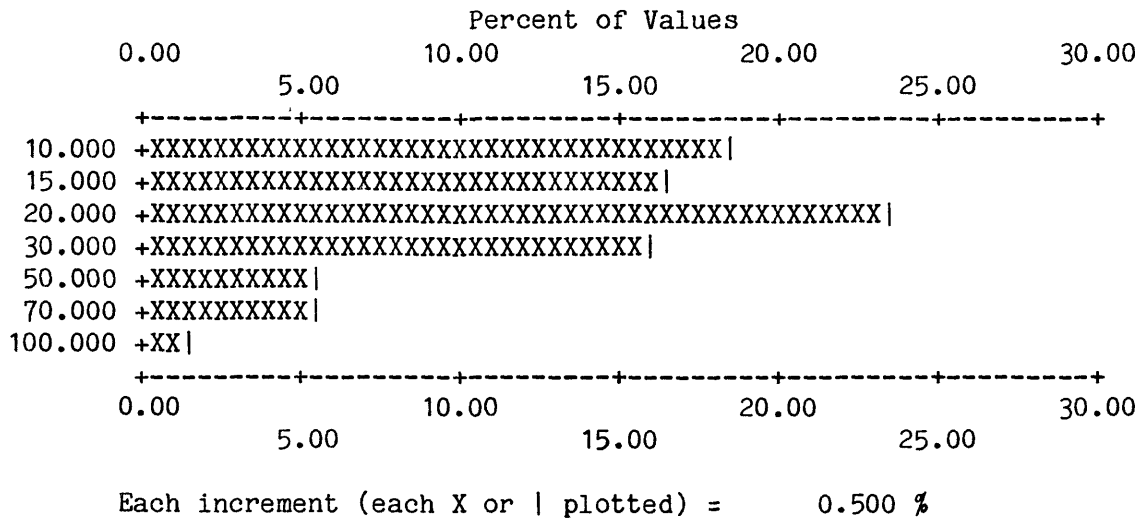


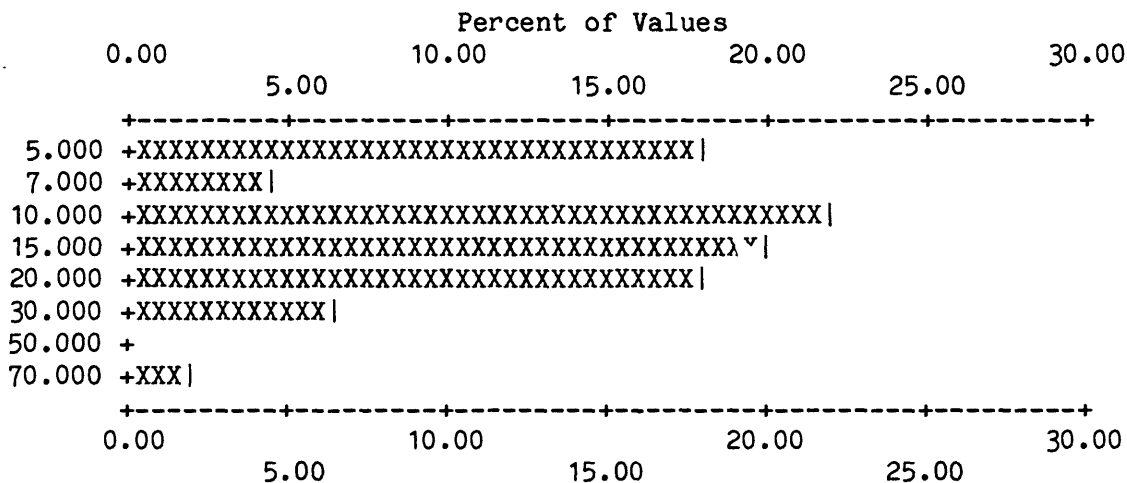
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Sc, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	8	17.78	8	17.8	12	26.7
2	7.000	2	4.44	10	22.2	14	31.1
3	10.000	10	22.22	20	44.4	24	53.3
4	15.000	9	20.00	29	64.4	33	73.3
5	20.000	8	17.78	37	82.2	41	91.1
6	30.000	3	6.67	40	88.9	44	97.8
7	70.000	1	2.22	41	91.1	45	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
138	0	0	3	1	0	0	41	45	183	VALUES
75.4	0.0	0.0	6.7	2.2	0.0	0.0	91.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	70.00	14.854	11.27	12.207	1.85	41



Each increment (each X or | plotted) = 0.500 %

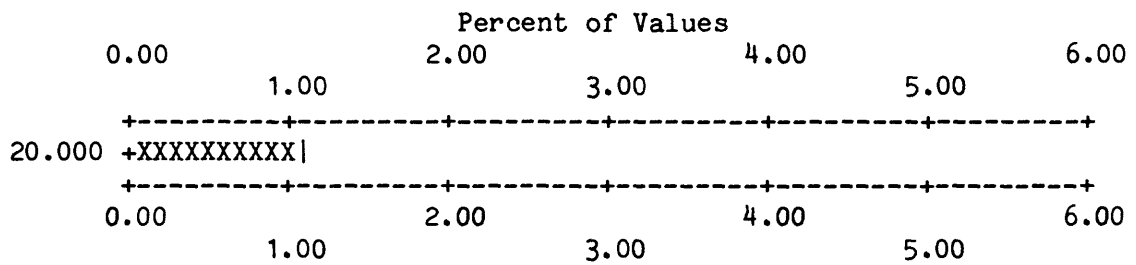
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Sn, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	20.000	2	1.09	2	1.1	183	100.0 0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	181	0	0	0	2	183	183	VALUES
0.0	0.0	0.0	98.9	0.0	0.0	0.0	1.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
20.000	20.00	20.000	0.00	20.000	0.00	2



Each increment (each X or | plotted) = 0.100 %

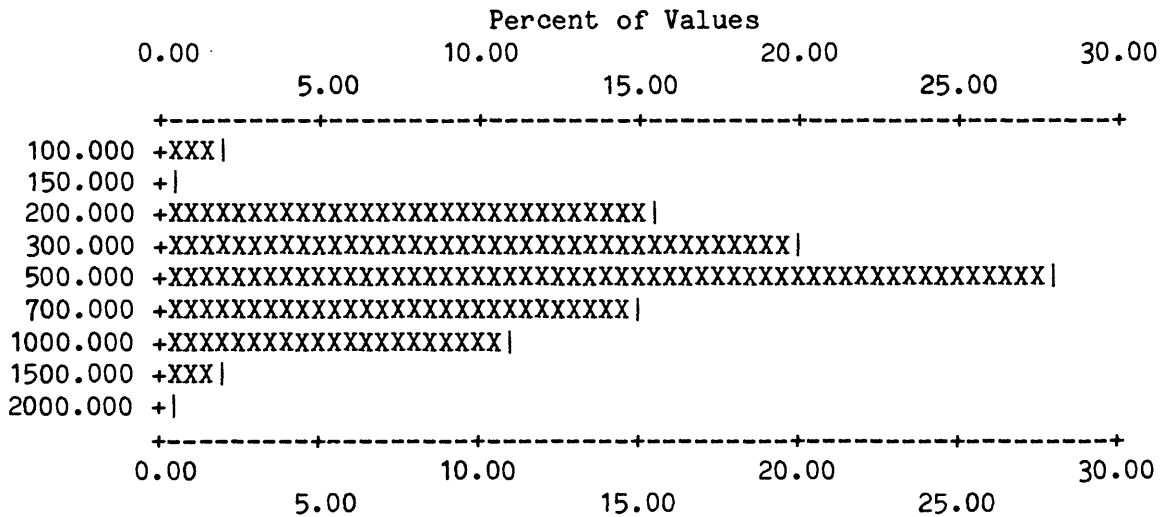
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Sr, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	100.000	4	2.19	4	2.2	92.3	14
2	150.000	1	0.55	5	2.7	91.8	15
3	200.000	28	15.30	33	18.0	76.5	43
4	300.000	37	20.22	70	38.3	56.3	80
5	500.000	51	27.87	121	66.1	28.4	131
6	700.000	27	14.75	148	80.9	13.7	158
7	1000.000	20	10.93	168	91.8	2.7	178
8	1500.000	4	2.19	172	94.0	0.5	182
9	2000.000	1	0.55	173	94.5	0.0	183

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	10	0	0	0	173	183	183	VALUES
0.0	0.0	0.0	5.5	0.0	0.0	0.0	94.5			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	2000.00	518.208	314.71	436.568	1.82	173



Each increment (each X or | plotted) = 0.500 %

Table 6--Frequency tables and histograms for rock samples - (continued)

S-Th, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %	
1	100.000	1	0.55	1	0.5	182	99.5	0.5
2	150.000	1	0.55	2	1.1	183	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	178	3	0	0	2	183	183	VALUES
0.0	0.0	0.0	97.3	1.6	0.0	0.0	1.1			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
100.000	150.00	125.000	35.36	122.474	1.33	2

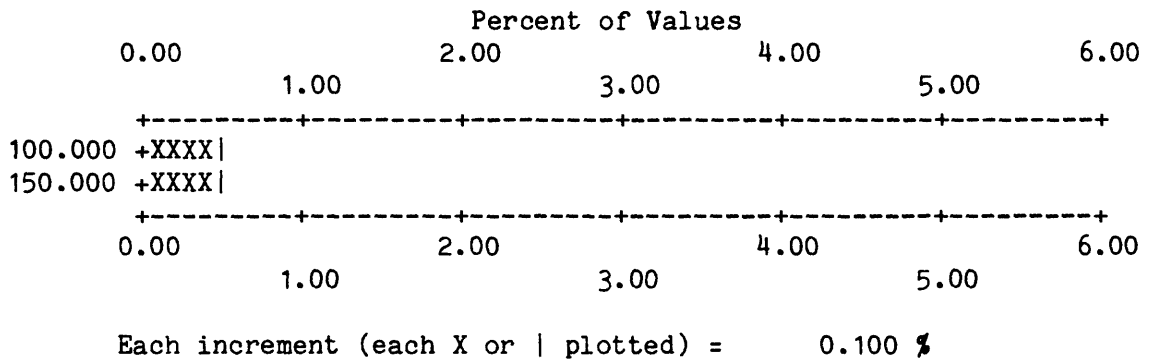


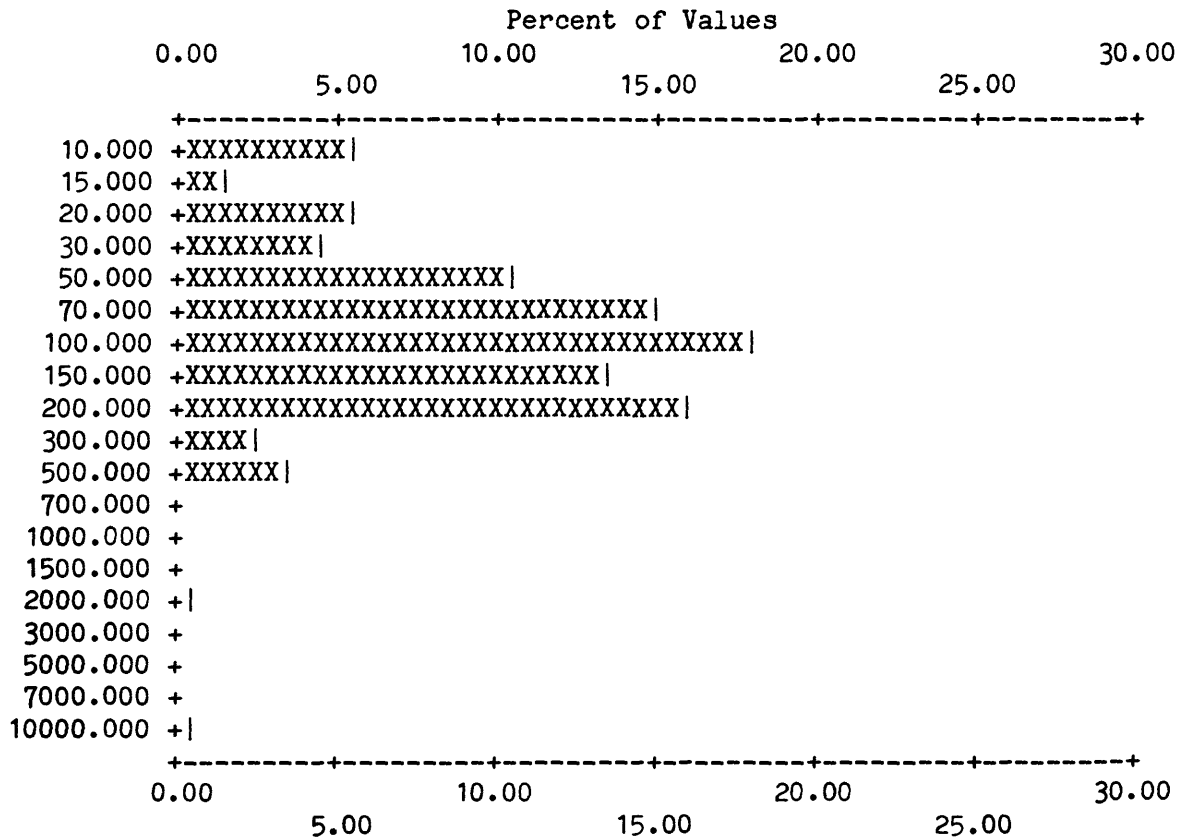
Table 6--Frequency tables and histograms for rock samples - (continued)

S-V, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %		
1	10.000	10	5.46	10	5.5	91.3	16	8.7	91.3
2	15.000	3	1.64	13	7.1	89.6	19	10.4	89.6
3	20.000	10	5.46	23	12.6	84.2	29	15.8	84.2
4	30.000	8	4.37	31	16.9	79.8	37	20.2	79.8
5	50.000	19	10.38	50	27.3	69.4	56	30.6	69.4
6	70.000	27	14.75	77	42.1	54.6	83	45.4	54.6
7	100.000	33	18.03	110	60.1	36.6	116	63.4	36.6
8	150.000	25	13.66	135	73.8	23.0	141	77.0	23.0
9	200.000	29	15.85	164	89.6	7.1	170	92.9	7.1
10	300.000	5	2.73	169	92.3	4.4	175	95.6	4.4
11	500.000	6	3.28	175	95.6	1.1	181	98.9	1.1
12	2000.000	1	0.55	176	96.2	0.5	182	99.5	0.5
13	10000.000	1	0.55	177	96.7	0.0	183	100.0	0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	1	5	0	0	177	183	183	VALUES
0.0	0.0	0.0	0.5	2.7	0.0	0.0	96.7			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	10000.00	185.169	761.75	87.194	2.75	177



Each increment (each X or | plotted) = 0.500 %

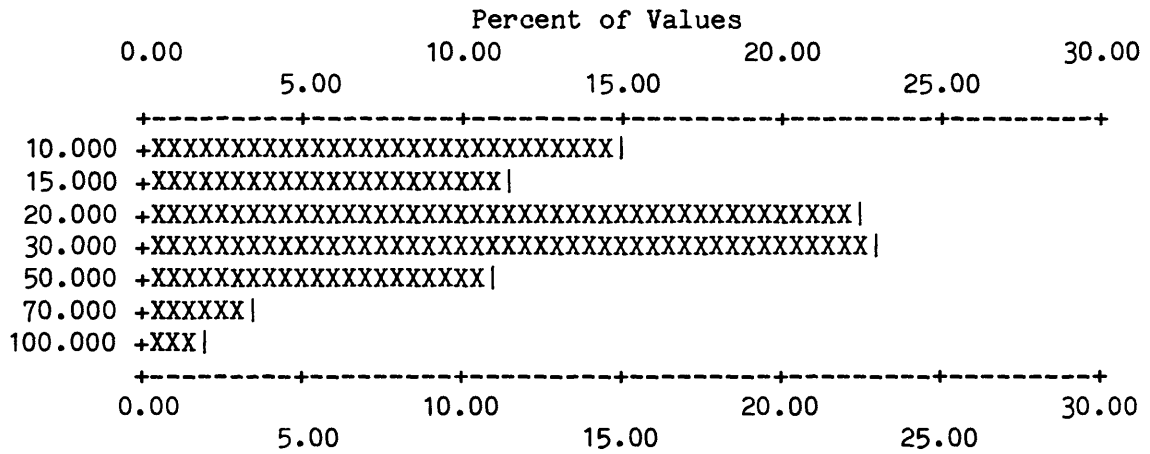
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Y, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	27	14.75	27	14.8	73.2	49
2	15.000	21	11.48	48	26.2	61.7	70
3	20.000	41	22.40	89	48.6	39.3	111
4	30.000	42	22.95	131	71.6	16.4	153
5	50.000	20	10.93	151	82.5	5.5	173
6	70.000	6	3.28	157	85.8	2.2	179
7	100.000	4	2.19	161	88.0	0.0	183

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	22	0	0	0	161	183	183	VALUES
0.0	0.0	0.0	12.0	0.0	0.0	0.0	88.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	100.00	27.857	18.72	23.295	1.79	161



Each increment (each X or | plotted) = 0.500 %



Table 6--Frequency tables and histograms for rock samples - (continued)

S-Zn, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %		
1	200.000	1	0.55	1	0.5	181	98.9	1.1	
2	300.000	1	0.55	2	1.1	182	99.5	0.5	
3	700.000	1	0.55	3	1.6	183	100.0	0.0	

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
0	0	0	174	6	0	0	3	183	183	VALUES
0.0	0.0	0.0	95.1	3.3	0.0	0.0	1.6			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
200.000	700.00	400.000	264.58	347.603	1.90	3

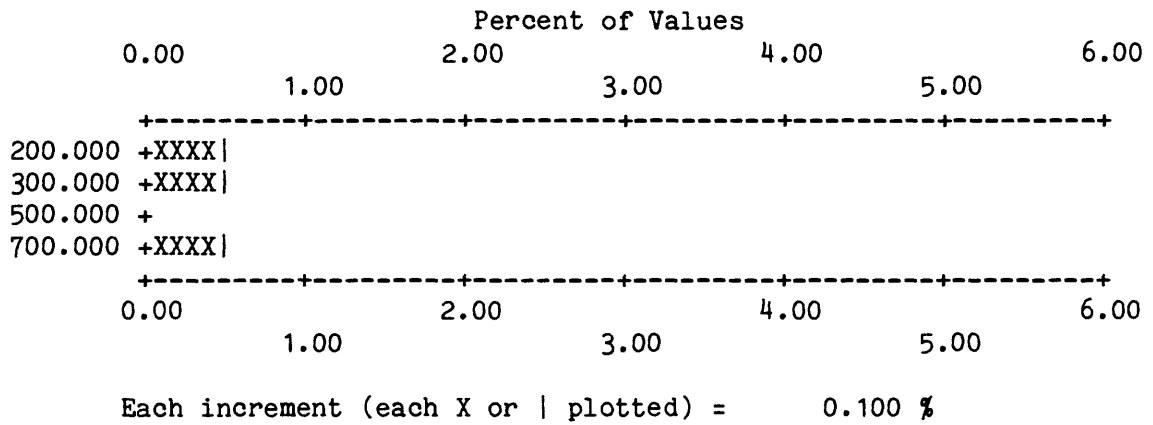


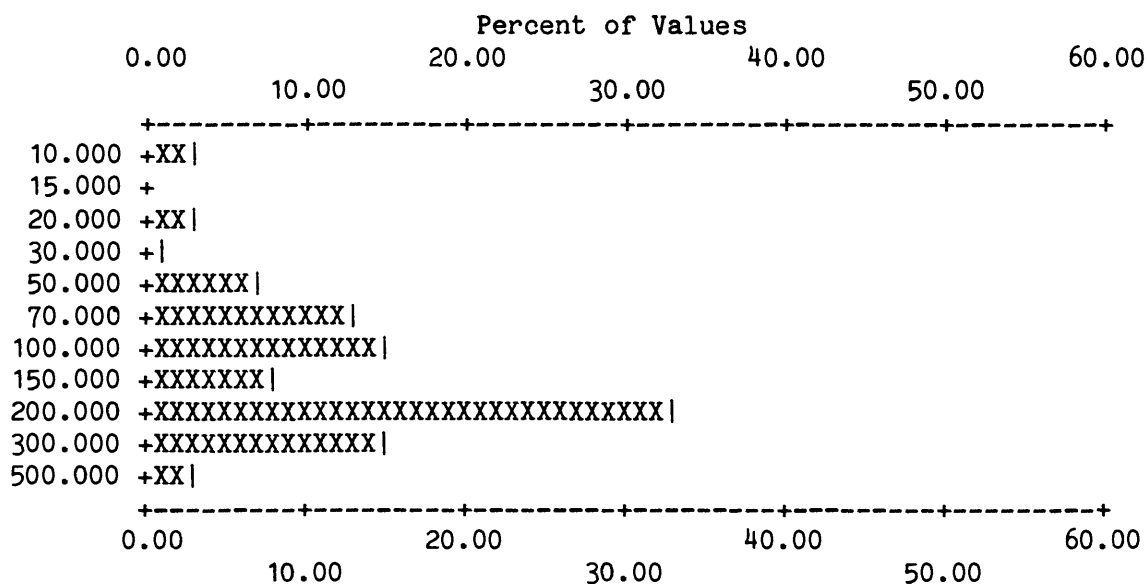
Table 6--Frequency tables and histograms for rock samples - (continued)

S-Zr, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	2	2.67	2	2.7	2	2.7
2	20.000	2	2.67	4	5.3	4	5.3
3	30.000	1	1.33	5	6.7	5	6.7
4	50.000	5	6.67	10	13.3	10	13.3
5	70.000	10	13.33	20	26.7	20	26.7
6	100.000	11	14.67	31	41.3	31	41.3
7	150.000	6	8.00	37	49.3	37	49.3
8	200.000	25	33.33	62	82.7	62	82.7
9	300.000	11	14.67	73	97.3	73	97.3
10	500.000	2	2.67	75	100.0	75	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
108	0	0	0	0	0	0	75	75	183	VALUES
59.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	500.00	164.533	101.88	128.839	2.23	75



Each increment (each X or | plotted) = 1.000 %

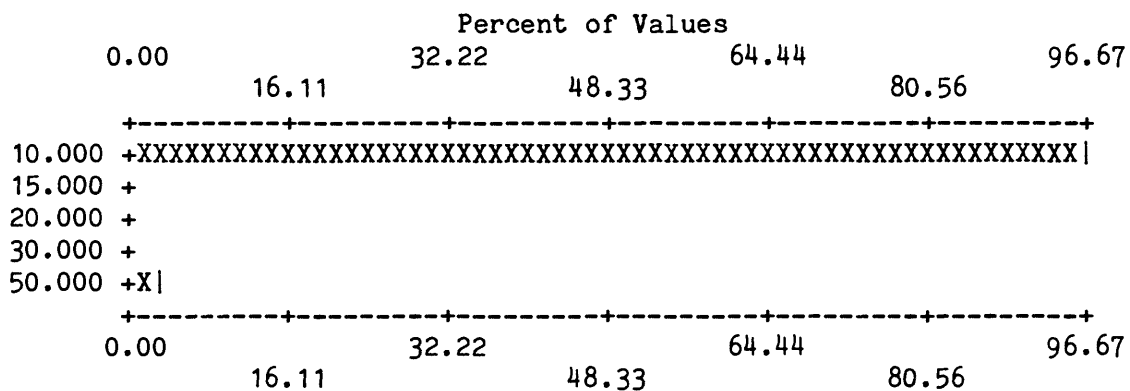
Table 6--Frequency tables and histograms for rock samples - (continued)

AA-Au, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	10.000	29	96.67	29	96.7	3.3	29 96.7 3.3
2	50.000	1	3.33	30	100.0	0.0	30 100.0 0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
153	0	0	0	0	0	0	30	30	183	
83.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
10.000	50.00	11.333	7.30	10.551	1.34	30



Each increment (each X or | plotted) = 1.611 %

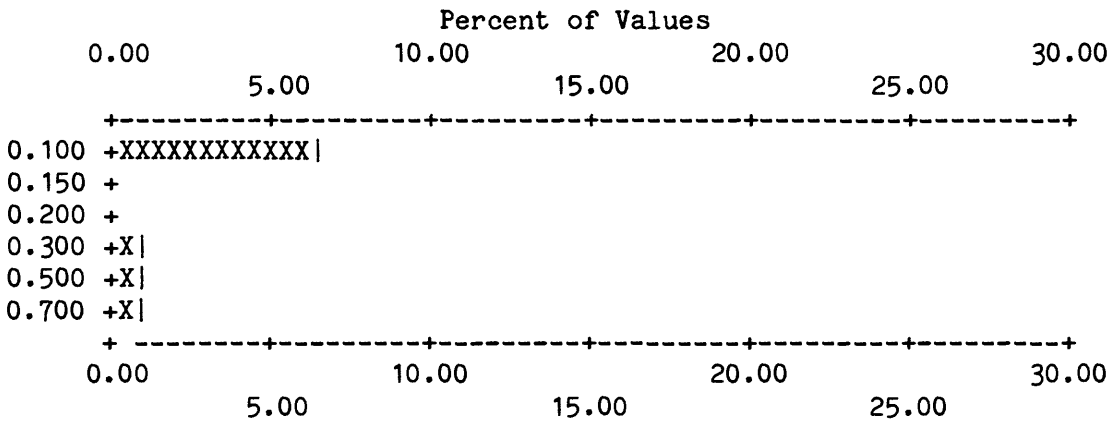
Table 6--Frequency tables and histograms for rock samples - (continued)

AA-Cd, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.100	6	6.45	6	6.5	90	96.8
2	0.300	1	1.08	7	7.5	91	97.8
3	0.500	1	1.08	8	8.6	92	98.9
4	0.700	1	1.08	9	9.7	93	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
90	0	0	82	2	0	0	9	93	183	PERCENT
49.2	0.0	0.0	88.2	2.2	0.0	0.0	9.7			

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.100	0.70	0.233	0.22	0.168	2.24	9



Each increment (each X or | plotted) = 0.500 %

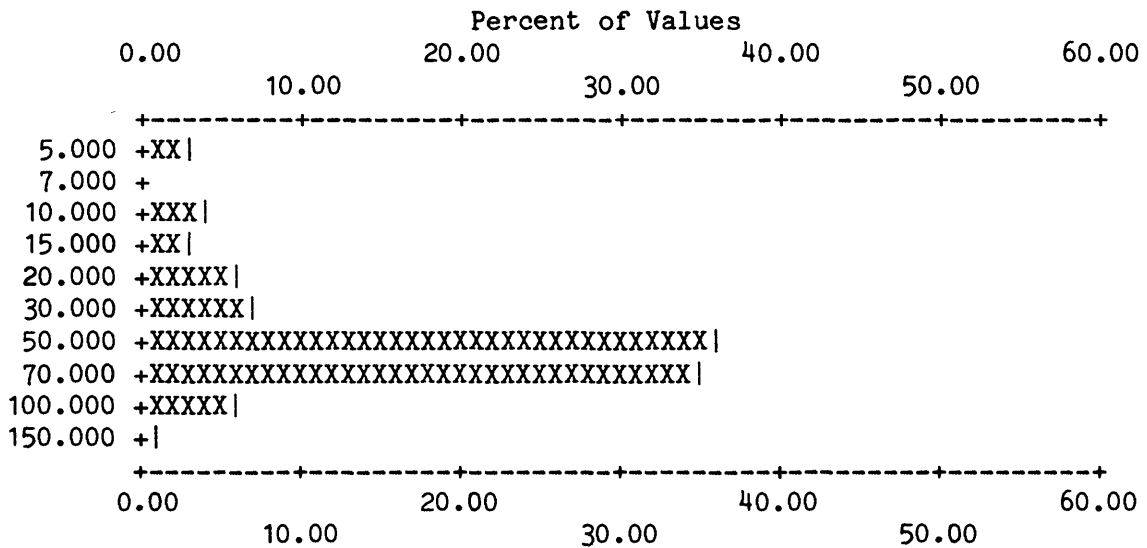
Table 6--Frequency tables and histograms for rock samples - (continued)

AA-Zn, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	5.000	4	2.90	4	2.9	4	2.9 97.1
2	10.000	6	4.35	10	7.2	10	7.2 92.8
3	15.000	4	2.90	14	10.1	14	10.1 89.9
4	20.000	8	5.80	22	15.9	22	15.9 84.1
5	30.000	9	6.52	31	22.5	31	22.5 77.5
6	50.000	50	36.23	81	58.7	81	58.7 41.3
7	70.000	48	34.78	129	93.5	129	93.5 6.5
8	100.000	8	5.80	137	99.3	137	99.3 0.7
9	150.000	1	0.72	138	100.0	138	100.0 0.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
45	0	0	0	0	0	0	138	138	183	VALUES
24.6	0.0	0.0	0.0	0.0	0.0	0.0	100.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
5.000	150.00	53.478	24.31	45.566	1.95	138



Each increment (each X or | plotted) = 1.000 %

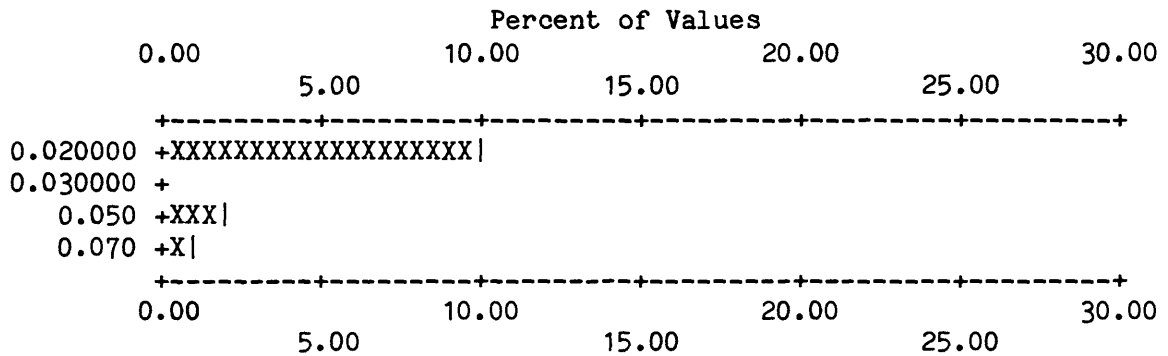
Table 6--Frequency tables and histograms for rock samples - (continued)

INST-Hg, ppm

	VALUE	NO.	%	CUM.	CUM. %	TOT CUM	TOT CUM %
1	0.020	9	9.78	9	9.8	89	96.7
2	0.050	2	2.17	11	12.0	91	98.9
3	0.070	1	1.09	12	13.0	92	100.0

B	T	H	N	L	G	OTHER	UNQUAL	ANAL	READ	VALUES
91	0	0	42	38	0	0	12	92	183	VALUES
49.7	0.0	0.0	45.7	41.3	0.0	0.0	13.0			PERCENT

MIN	MAX	AMEAN	SD	GMEAN	GD	VALUES
0.020	0.07	0.029	0.02	0.026	1.60	12



Each increment (each X or | plotted) = 0.500 %