

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Tabulated analytical results, floppy disc, and sample locality maps
for nonmagnetic and selected paramagnetic heavy-mineral concentrates
from stream sediment, Glens Falls 1° x 2°
quadrangle, New York, Vermont, and New Hampshire

By

Gordon W. Day, Eric P. Welsch, Kenneth C. Watts, Jr.,
and Julian C. Gray, Jr.

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SUPPLEMENTARY

360K, 5¼-inch diskette of all analytical data.....in pocket	
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STUDIES RELATED TO CUSMAP

This report presents the results of a geochemical survey of the Glens Falls 1° x 2° quadrangle, New York, Vermont, and New Hampshire. Geochemical samples were collected as one of several multidisciplinary studies associated with the Conterminous United States Mineral Appraisal Program (CUSMAP).

INTRODUCTION

In the summers of 1982 through 1984, the U.S. Geological Survey conducted a stream sediment geochemical survey of the Glens Falls 1° x 2° quadrangle. The nonmagnetic fraction of heavy minerals from the stream sediment was the chief material chemically analyzed. The Glens falls quadrangle comprises about 7,400 mi² (19,166 km²) and is located within an area bounded by longitudes 72°00' and 74°00' and latitudes 43°00' and 44°00'. It includes portions of New York, Vermont, and New Hampshire (fig. 1). The climate of the area is considered humid continental with annual temperatures ranging from 16° to 75°F, and an annual rainfall of about 39 inches.

Relief varies from: (1) high (around 1,500 to 2,000 ft) in the Green Mountains, Adirondack Mountains and high Taconic Mountains, where topography is rugged, ridge lines are around 2,000 ft and some peaks exceed 3,000 ft in elevation; (2) to moderate (about 1,000 ft) in the rolling hills adjacent to the Connecticut River, where high points reach as much as 3,100 ft (Mt. Ascutney); (3) to low (less than 100 up to about 700 ft) in the low Taconic Mountains and the nearly flat upper Hudson Valley and Champlain lowland, where average elevations range from about 150 to 350 ft.

Access to sample sites in the area is, in general, good, except along the north-trending spine of the Green Mountains and high Taconic Mountains, and in parts of the Adirondack Mountains where relatively large tracts of wooded and (or) boggy areas remain roadless. Much of the area is forested or otherwise heavily vegetated.

The results shown here are in the form of tabulated analytical data (tables 3 and 4), a floppy disc of the analytical data (in pocket), and two full-size, 1:250,000 scale plates showing the sample localities.

General Geologic Setting

Bedrock in the Glens Falls quadrangle is highly varied, which reflects a wide range of depositional environments and tectonic history (Doll and others, 1961; Fisher and others, 1970; Billings, 1956). From west to east (corresponding to large numbers on plate 1 and separated by dashed line), the stratigraphic-tectonic units consist of: (1) Precambrian (Grenvillian) granulite and charnockite, high-grade gneiss and schist, graphitic metasediments, gabbro, and anorthosite within the Adirondack Mountains; (2) a Cambrian-Ordovician shelf sequence of carbonates and quartzites in the Champlain-Hudson Valleys and the Vermont Valley; (3) a Cambrian-Ordovician eugeosynclinal sequence of black, green, and red slates, phyllites, minor carbonates, quartzite, and graywacke in the Taconic Mountains in New York and Vermont; (4) Precambrian core rocks of high-grade gneiss, schist, amphibolite, and granulite, and Cambrian(?) cover rocks consisting of schist, gneiss, and dolomite within the Green Mountain anticlinorium and Chester and Athens domes of Vermont; (5) Cambrian to Devonian amphibolite, greenstone, steatite, and ultramafic bodies (the talc belt), felsic volcanics, and metasediments of the Eastern Basin sequence of Vermont; (6) Ordovician-early Devonian metasediments, felsic volcanics, amphibolite, greenstone, and silicic plutons east of the Connecticut River in New Hampshire associated with floored gneissic (mantled domes); and (7) sheeted Devonian-Mississippian granites of the New Hampshire plutonic series. Two small discordant plutons of post-kinematic

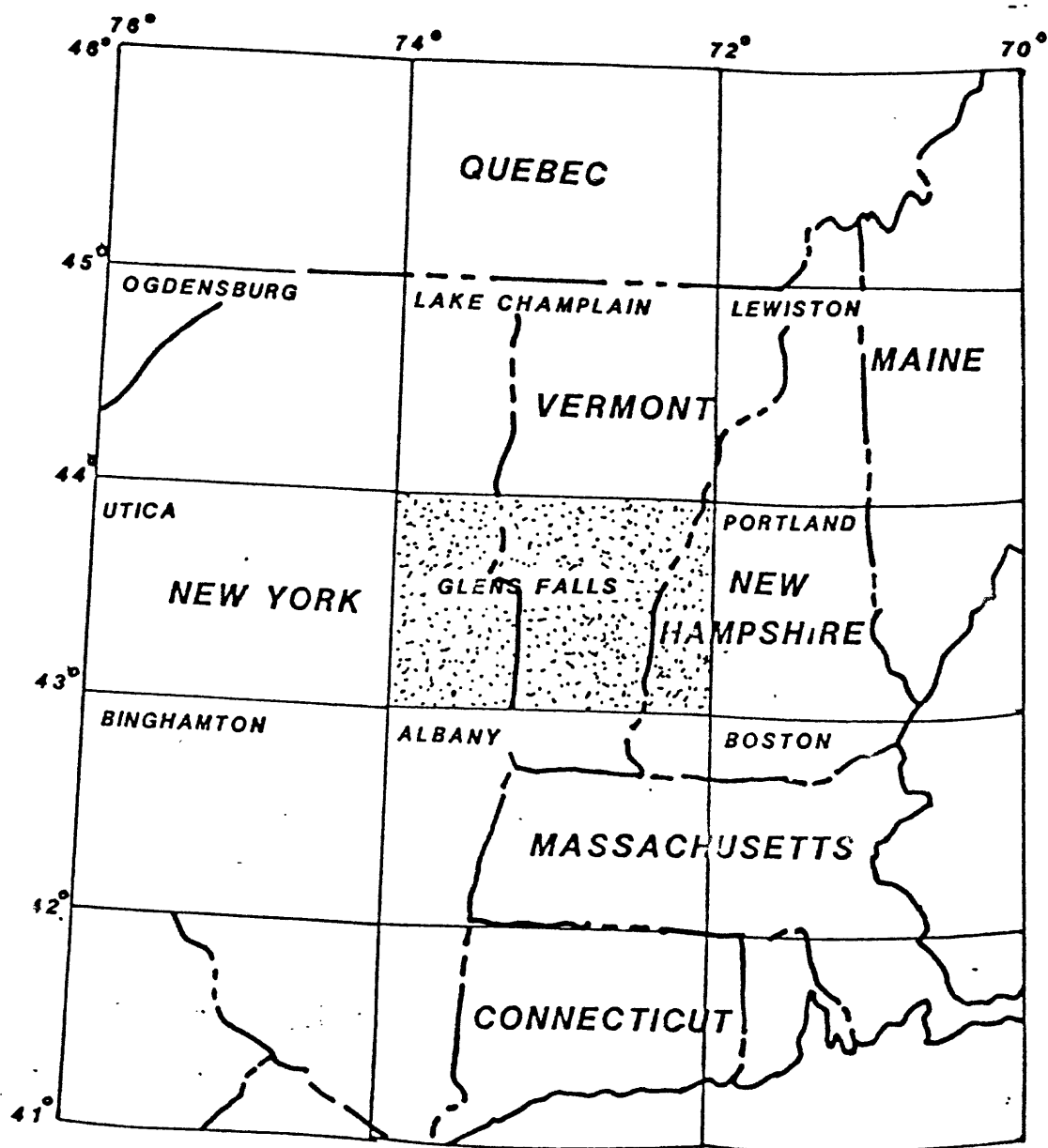


Figure 1. Location of Glens Falls 1° x 2° quadrangle, New York, Vermont, and New Hampshire.

Mesozoic age belonging to the White Mountain Series of alkalic igneous rocks occur at Cuttingsville (8) and Mt. Ascutney, Vermont (9). These plutons, though small in areal outcrop, are geochemically and metallogenically significant to the mineral resource investigations.

Much of the area is covered by glacial, glaciofluvial, glaciolacustrine, and eolian materials deposited during Pleistocene time. The deposits left by this glaciation have concealed much of the bedrock except in the higher elevations and in roadcuts, river beds and banks, and the occasional "ledge" of outcrop on hillsides. Bedrock in the higher elevations, if not exposed, is covered by a thin veneer of ablation till.

METHODS OF STUDY

Sample Medium

Heavy-mineral-concentrate samples provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

Sample Collection

Samples of heavy minerals from 1,286 sites were collected from the active channels of small streams of, for the most part, 1 to 3 mi in length. Large streams were sampled on their headwater branches at about 1 to 3 mi from their head. Samples were not collected in areas of extensive glaciolacustrine or glaciofluvial deposits. Tributaries to large river systems where deltaic, glaciolacustrine and other types of glacial materials are particularly thick were samples well above the elevation of these deposits.

The heavy-mineral samples were usually composited from several localities within an area that may extend as much as 100 ft from the site plotted on the map. Long-handled garden shovels were used to allow depth penetration into the sediment. This improved the possibility of including any gold present in the alluvium in the sample and also improved the yield of heavy minerals.

Samples were then panned on site using stainless-steel gold pans. To help insure an adequate yield of heavy minerals, a 16-in. gold pan full of gravel and sediment was panned twice (about 20 to 30 pounds of sediment). The panned samples thus obtained were then air dried and shipped to USGS laboratories in Denver, Colorado.

Sample Preparation

When the dry samples arrived at the Denver laboratories, bromoform (specific gravity 2.8) was used to remove the remaining quartz and feldspar diluent. The resultant heavy-mineral sample was then separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The first fraction obtained, which consists chiefly of magnetite and ilmenite, was stored and not analyzed. The second fraction contains garnet, mafic rock-forming minerals and other moderately magnetic materials, and is devoid of magnetite and ilmenite; it is referred to in this report as the "magnetic fraction." Only 386 samples of the magnetic fraction were analyzed. They were chiefly taken from Terrane 5 where possibilities for gold and chromite deposits exist. The third fraction, referred to as the

nonmagnetic fraction, consists of light-colored rock accessory minerals such as zircon, apatite, etc., and is the chief basis for these studies. The nonmagnetic sample was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.1 ampere to remove the magnetite and ilmenite, and a current of 1.0 ampere to split the remainder of the sample into moderately magnetic and nonmagnetic fractions.

Sample Analysis

Spectrographic method

The heavy-mineral-concentrate samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, 7, and so forth. Values determined for the major elements (Fe, Mg, Ca, and Ti) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples from the Glens Falls 1° x 2° quadrangle are listed in tables 3 and 4.

Chemical methods

Other methods of analysis used on samples from the Glens Falls 1° x 2° quadrangle are summarized in table 2 (Meier, 1980, Welsch, 1979).

Analytical results for As and Au in magnetic heavy-mineral concentrates are listed in table 4.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1977).

DESCRIPTION OF DATA TABLES

Tables 3 and 4 list the results of analyses for the samples of nonmagnetic and magnetic heavy-mineral concentrates, respectively. For the two tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location maps (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses; and "cm" indicates colorimetric analyses. A letter "N" in the tables indicates that a given element was

looked for but not detected at the lower limit of determination shown for that element in tables 1 or 2. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in table 4 in place of an analytical value. Because of the formatting used in the computer program that produced tables 3 and 4, some of the elements listed in these tables (Fe, Mg, Ca, and Ti) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

The spectrographic determinations for Zr in the nonmagnetic heavy-mineral concentrates samples were mostly above the upper limits of determination shown in table 1, no samples showed detectable cadmium, and only a few samples showed detectable thorium; consequently, the columns for these elements have been deleted from table 3.

The spectrographic determinations for Be, Th, Zn, and Zr in the magnetic heavy-mineral concentrates varied only a small amount and Ag, Au, Bi, Cd, Sb, Sn, and W were looked for but not detected; consequently, the columns for these elements have been deleted from table 4.

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REFERENCES CITED

- Billings, M.P., 1956, The geology of New Hampshire--Part II: Bedrock geology: New Hampshire Planning and Development Commission, Concord, 203 p.
- Doll, C.G., Cady, W.M., Thompson, J.B., Jr., and Billings, M.P., 1961, Centennial geologic map of Vermont: Vermont Geological Survey, scale 1:250,000.
- Fisher, D.W., Isachsen, Y.W., and Rickard, L.V., 1970, Geologic map of New York, Hudson-Mohawk Sheet: New York State Museum and Sci. Serv. Geol. Survey, Map and Chart, Series No. 15, scale 1:250,000.
- Grimes, D.J., and Marranzino, A.P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.
- Meier, A.L., 1980, Flameless atomic-absorption determination of gold in geological materials: Journal of Geochemical Exploration, v. 13, p. 77-85.
- VanTrump, George, Jr., and Miesch, A.T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.
- Welsch, E.P., 1979, Determination of arsenic in geologic materials with silver diethyldithiocarbamate: U.S. Geological Survey Open-File Report 79-1442.

TABLE 1.--Limits of determination for the spectrographic analysis of heavy-mineral concentrates based on a 5-mg sample

Elements	Lower determination limit	Upper determination limit
Percent		
Iron (Fe)	.1	50
Magnesium (Mg)	.05	20
Calcium (Ca)	.1	50
Titanium (Ti)	.005	2
Parts per million		
Manganese (Mn)	20	10,000
Silver (Ag)	1	10,000
Arsenic (As)	500	20,000
Gold (Au)	20	1,000
Boron (B)	20	5,000
Barium (Ba)	50	10,000
Beryllium (Be)	2	2,000
Bismuth (Bi)	20	2,000
Cadmium (Cd)	50	1,000
Cobalt (Co)	10	5,000
Chromium (Cr)	20	10,000
Copper (Cu)	10	50,000
Lanthanum (La)	50	2,000
Molybdenum (Mo)	10	5,000
Niobium (Nb)	50	5,000
Nickel (Ni)	10	10,000
Lead (Pb)	20	50,000
Antimony (Sb)	200	20,000
Scandium (Sc)	10	200
Tin (Sn)	20	2,000
Strontium (Sr)	200	10,000
Vanadium (V)	20	20,000
Tungsten (W)	100	20,000
Yttrium (Y)	20	5,000
Zinc (Zn)	500	20,000
Zirconium (Zr)	20	2,000
Thorium (Th)	200	5,000

TABLE 2.--Chemical methods

[GFAA = graphite furnace atomic absorption; CM = colorimetric]

Element or constituent determined	Sample type	Method	Determination limit (micrograms/gram or ppm)	Analyst	Reference
Gold (Au)	Magnetic heavy-mineral	GFAA	0.002	Eric P. Welsch	Meier, 1980.
Arsenic (As)	Concentrate (C-2)	CM	1		Welsch, 1979.

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT
[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82AN100C	43 21 51	72 43 52	2.00	2.00	10.0	>2.0	500	N	N	N	2,000	150	N	N	20
82AN101C	43 19 36	72 43 24	2.00	2.00	20.0	>2.0	500	N	N	N	500	200	N	N	20
82AN102C	43 17 36	72 43 58	2.00	2.00	30.0	>2.0	1,000	N	N	N	700	100	N	N	10
82AN103C	43 16 35	72 44 9	2.00	1.00	30.0	>2.0	1,000	N	N	N	500	70	N	N	10
82AN104C	43 15 27	72 42 24	2.00	2.00	30.0	>2.0	1,000	N	N	N	500	100	N	N	10
82AN105C	43 17 45	72 43 0	2.00	2.00	30.0	>2.0	1,500	N	N	N	2,000	150	N	N	30
82AN106C	43 17 0	72 42 11	1.00	.70	10.0	>2.0	500	N	N	N	150	150	N	N	10
82AN107C	43 19 51	72 41 52	1.00	1.00	20.0	>2.0	500	N	N	N	500	100	N	N	10
82AN108C	43 20 9	72 41 57	2.00	1.50	20.0	>2.0	700	N	N	N	1,500	150	N	N	15
82AN109C	43 22 18	72 41 34	1.00	1.50	30.0	>2.0	500	N	N	N	700	100	N	N	10
82AN110C	43 18 48	72 37 47	5.00	2.00	30.0	>2.0	7,000	N	N	N	1,000	50	N	N	30
82AN111C	43 18 51	72 37 45	1.00	2.00	50.0	>2.0	1,000	N	N	N	300	N	N	N	10
82AN112C	43 18 7	72 38 22	2.00	.70	15.0	>2.0	1,000	N	N	N	700	100	N	N	10
82AN113C	43 15 24	72 41 4	2.00	.70	10.0	>2.0	500	N	N	N	300	150	N	N	30
82AN114C	43 15 11	72 43 9	2.00	2.00	20.0	>2.0	1,500	N	N	N	1,000	70	N	N	20
82AN115C	43 17 48	72 42 23	2.00	2.00	10.0	>2.0	1,500	N	N	N	1,500	300	N	N	10
82AN116C	43 19 49	72 43 27	2.00	5.00	20.0	>2.0	1,500	N	N	N	1,500	100	N	N	30
82AN200C	43 22 7	72 38 26	2.00	2.00	20.0	>2.0	1,000	N	N	N	1,000	70	N	N	30
82AN201C	43 20 49	72 38 16	2.00	1.00	10.0	>2.0	1,000	N	N	N	1,500	70	N	N	10
82AN202C	43 20 33	72 38 38	5.00	2.00	20.0	>2.0	1,500	N	700	N	2,000	150	N	N	30
82AN203C	43 19 29	72 39 31	7.00	2.00	10.0	>2.0	2,000	N	N	N	2,000	150	N	N	50
82AN205C	43 19 31	72 39 27	2.00	1.00	10.0	>2.0	2,000	N	N	N	700	100	N	N	10
82AN206C	43 20 25	72 39 59	2.00	2.00	15.0	>2.0	1,500	N	N	N	1,000	70	N	N	15
82AN207C	43 16 6	72 38 1	2.00	1.00	15.0	>2.0	1,500	N	N	N	500	100	N	N	50
82AN208C	43 17 54	72 38 26	1.50	1.00	20.0	>2.0	1,500	N	N	N	300	100	N	N	10
82AN209C	43 16 45	72 40 19	5.00	1.50	20.0	>2.0	1,500	N	N	N	1,000	150	N	N	100
82AN212C	43 17 19	72 40 23	2.00	.70	7.0	>2.0	1,500	N	N	N	500	150	N	N	30
82AN214C	43 17 46	72 40 58	5.00	2.00	10.0	>2.0	2,000	N	N	N	2,000	150	N	N	30
82AN215C	43 20 8	72 41 8	2.00	.70	5.0	>2.0	1,500	N	N	N	700	200	N	N	20
82AN216C	43 20 12	72 41 30	7.00	2.00	10.0	>2.0	5,000	N	N	N	5,000	150	N	N	70
82AN221C	43 21 38	72 40 56	7.00	1.50	10.0	>2.0	5,000	N	N	N	1,000	150	N	N	70
82AN222C	43 21 53	72 41 6	2.00	2.00	20.0	>2.0	2,000	N	N	N	3,000	150	N	N	30
82LD100C	43 26 13	72 43 46	2.00	2.00	10.0	>2.0	1,000	N	N	N	2,000	300	N	N	20
82LD101C	43 25 12	72 42 12	2.00	2.00	20.0	>2.0	500	N	N	N	500	200	N	N	20
82LD102C	43 22 45	72 42 59	2.00	2.00	20.0	>2.0	1,000	N	N	N	1,000	300	N	N	20
82LD103C	43 27 0	72 41 41	1.50	1.00	20.0	>2.0	500	N	N	N	300	200	N	N	10
82LD104C	43 28 11	72 41 36	2.00	1.00	10.0	>2.0	1,000	N	N	N	700	300	N	N	50
82LD105C	43 29 33	72 39 19	5.00	.30	10.0	>2.0	1,000	N	N	N	100	150	N	N	70
82LD106C	43 28 34	72 41 43	2.00	.50	10.0	>2.0	1,000	N	N	N	200	200	N	N	20
82LD107C	43 28 38	72 43 9	2.00	2.00	20.0	>2.0	1,500	N	N	N	2,000	500	N	N	10
82LD108C	43 28 34	72 43 26	2.00	1.00	20.0	>2.0	1,500	N	N	N	500	150	N	N	10
82LD109C	43 27 20	72 42 24	2.00	1.00	10.0	>2.0	1,500	N	N	N	700	300	N	N	20
82LD201C	43 23 28	72 38 31	1.00	.50	5.0	>2.0	500	N	N	N	500	150	N	N	10
82LD202C	43 22 52	72 38 54	1.50	1.00	7.0	>2.0	300	N	N	N	700	150	N	N	30
82LD205C	43 23 15	72 40 49	7.00	2.00	10.0	>2.0	1,500	N	N	N	3,000	300	N	N	150

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82AN100C	100	100	150	N	100	N	300	N	20	50	300	200	N	300	N
82AN101C	100	50	300	N	70	N	150	N	20	70	700	200	N	300	N
82AN102C	70	50	200	N	100	N	150	N	20	70	700	200	N	300	N
82AN103C	100	50	300	N	100	N	150	N	20	70	700	300	N	700	N
82AN104C	100	50	300	N	150	N	100	N	20	70	500	300	N	500	N
82AN105C	100	100	500	N	50	N	150	N	20	50	700	200	N	500	N
82AN106C	20	15	50	N	100	N	20	N	20	N	200	150	<100	150	N
82AN107C	70	150	150	N	100	N	30	N	20	50	500	200	N	300	N
82AN108C	100	150	150	N	100	N	30	N	20	20	500	200	N	300	N
82AN109C	100	30	150	N	50	N	70	N	20	20	500	200	N	300	N
82AN110C	700	20	300	N	70	N	150	N	50	N	1,500	300	N	300	N
82AN111C	100	30	200	N	70	N	70	N	20	20	1,500	200	N	300	N
82AN112C	100	30	300	N	150	N	70	N	20	N	700	300	N	200	N
82AN113C	50	20	500	N	50	N	50	N	20	N	500	150	N	200	N
82AN114C	100	30	500	N	70	N	150	N	20	20	700	300	N	300	N
82AN115C	100	200	300	N	150	N	50	N	20	N	500	300	N	200	N
82AN116C	150	50	500	N	70	N	150	N	20	50	500	200	N	300	N
82AN200C	150	70	150	N	100	N	50	N	20	N	700	200	N	300	N
82AN201C	100	150	200	N	150	N	20	N	20	N	500	200	N	150	N
82AN202C	200	300	150	N	200	N	20	N	20	N	700	300	N	150	N
82AN203C	100	700	50	N	70	N	150	N	20	N	500	200	N	300	N
82AN205C	200	50	200	N	150	N	30	N	20	N	200	300	N	200	N
82AN206C	150	70	200	N	70	N	30	N	20	N	500	150	N	200	N
82AN207C	150	150	70	N	70	N	150	N	30	N	2,000	300	N	300	N
82AN208C	150	20	50	N	150	N	150	N	N	100	1,500	300	N	300	N
82AN209C	70	500	200	N	70	N	200	N	30	20	700	300	<100	300	N
82AN212C	50	200	100	N	100	N	50	N	N	20	500	300	N	200	N
82AN214C	150	300	500	N	70	N	150	N	30	N	700	300	N	300	N
82AN215C	20	100	200	N	50	N	50	N	N	N	200	150	N	150	N
82AN216C	200	30	500	N	50	N	150	N	50	N	700	300	N	300	N
82AN221C	150	100	200	N	100	N	150	N	30	N	700	300	N	200	N
82AN222C	150	70	300	N	100	N	100	N	20	N	500	300	N	200	N
82LD100C	100	50	150	N	50	N	100	N	20	N	700	200	N	300	N
82LD101C	100	50	150	N	70	N	100	N	20	20	700	200	N	300	N
82LD102C	100	50	150	N	70	N	100	N	20	20	500	200	N	300	N
82LD103C	50	50	200	N	50	N	100	N	20	N	700	150	N	300	N
82LD104C	100	150	150	N	70	N	100	N	20	N	700	200	N	300	N
82LD105C	50	500	150	N	70	N	20	N	20	N	500	150	N	100	N
82LD106C	70	700	150	N	100	N	20	N	20	N	500	150	<100	150	N
82LD107C	150	100	500	N	70	N	150	N	30	N	1,500	200	N	300	N
82LD108C	100	50	300	N	50	N	150	N	30	N	1,500	200	N	200	N
82LD109C	100	500	300	N	100	N	7,000	<200	20	300	500	200	N	200	N
82LD201C	50	20	200	N	50	N	150	N	20	N	200	150	N	150	N
82LD202C	50	20	100	N	70	N	20	N	20	N	200	150	N	200	N
82LD205C	150	100	200	N	100	50	150	N	30	N	700	300	N	200	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82LD206C	43 23 7	72 40 9	10.00	2.00	20.0	>2.0	1,500	N	3,000	N	3,000	200	N	N	200
82LD207C	43 23 38	72 40 40	2.00	3.00	20.0	>2.0	1,500	N	N	N	2,000	300	N	N	30
82LD208C	43 23 38	72 40 14	2.00	1.50	20.0	>2.0	1,500	N	N	N	1,500	300	N	N	30
82LD209C	43 24 55	72 39 7	7.00	2.00	20.0	>2.0	2,000	N	N	20	2,000	300	N	N	150
82LD210C	43 25 26	72 39 22	2.00	1.50	20.0	>2.0	1,500	N	N	N	1,000	150	N	N	30
82LD212C	43 26 56	72 39 5	5.00	1.00	20.0	>2.0	5,000	N	N	N	500	200	N	N	150
82LD215C	43 27 2	72 39 22	2.00	.70	5.0	>2.0	2,000	N	N	N	300	300	N	N	30
82LD216C	43 27 25	72 39 53	1.00	.30	1.0	1.5	2,000	N	N	N	70	150	N	N	20
82LD218C	43 27 35	72 38 54	2.00	1.00	10.0	>2.0	1,500	N	N	N	500	300	N	N	20
82LD219C	43 27 38	72 38 56	2.00	.50	7.0	>2.0	1,000	N	N	N	500	150	N	N	30
82LD220C	43 29 4	72 39 21	5.00	.70	10.0	>2.0	1,500	N	2,000	N	300	200	N	N	100
82MC100C	43 58 42	72 6 8	2.00	.50	10.0	2.0	1,000	N	N	N	100	300	5	N	N
82MC101C	43 58 43	72 3 16	1.00	.20	10.0	>2.0	700	N	N	N	100	200	N	20	20
82MC102C	43 58 34	72 2 37	1.00	.20	5.0	2.0	500	N	N	N	70	300	N	N	N
82MC103C	43 56 54	72 2 57	1.00	.20	5.0	2.0	500	N	N	N	150	200	5	N	N
82MC104C	43 56 34	72 5 2	1.50	.50	5.0	2.0	500	N	N	N	100	150	2	N	N
82MC105C	43 46 50	72 0 10	1.00	.50	20.0	1.5	1,500	N	N	N	150	200	2	N	N
82MC106C	43 46 22	72 1 25	.50	.10	5.0	>2.0	1,500	N	N	N	70	300	2	N	N
82MC107C	43 46 40	72 1 13	2.00	.20	5.0	>2.0	2,000	N	N	N	70	500	2	500	N
82MC108C	43 46 48	72 2 41	1.50	.20	5.0	>2.0	500	N	N	N	100	150	2	N	30
82MC109C	43 47 43	72 4 7	2.00	.50	5.0	>2.0	500	N	N	N	100	150	2	N	10
82MC110C	43 47 50	72 3 44	1.00	.20	10.0	2.0	500	N	N	N	70	200	2	N	N
82MC111C	43 47 57	72 5 10	1.50	.50	20.0	2.0	1,000	N	N	N	70	150	2	70	10
82MC112C	43 46 50	72 5 45	1.00	.50	5.0	>2.0	1,000	N	N	N	100	300	2	N	N
82MC113C	43 48 21	72 7 10	1.00	.50	5.0	>2.0	700	N	N	N	100	150	2	N	N
82MC114C	43 47 37	72 7 36	1.00	.50	5.0	>2.0	1,000	N	N	N	100	200	5	N	N
82MC115C	43 45 31	72 2 23	1.00	.20	5.0	>2.0	1,000	N	N	N	20	200	N	N	N
82MC116C	43 46 24	72 8 42	1.00	.50	5.0	>2.0	1,500	N	N	N	150	200	N	N	N
82MC117C	43 46 9	72 9 31	2.00	.50	5.0	>2.0	500	N	N	N	150	300	N	N	70
82MC118C	43 45 57	72 10 58	2.00	.50	5.0	>2.0	1,000	N	N	N	100	200	N	N	20
82MC119C	43 45 48	72 11 52	2.00	.20	5.0	>2.0	500	N	N	N	100	150	50	N	70
82MC120C	43 50 17	72 6 52	1.00	.20	5.0	>2.0	1,000	N	N	N	100	300	N	N	N
82MC121C	43 49 33	72 6 30	1.00	.50	10.0	>2.0	1,500	N	N	N	150	200	5	N	N
82MC122C	43 50 30	72 8 49	1.00	.50	5.0	>2.0	700	N	N	N	100	300	2	N	N
82MC123C	43 58 36	72 1 3	2.00	.20	10.0	>2.0	300	N	N	N	20	300	N	N	70
82MC124C	43 58 59	72 1 29	1.50	.50	10.0	>2.0	500	N	N	N	100	500	N	N	20
82MC125C	43 57 4	72 1 34	1.00	.20	10.0	>2.0	500	N	N	<20	100	300	N	150	N
82MC126C	43 56 51	72 1 36	1.50	.50	20.0	>2.0	1,000	N	N	N	300	150	N	N	N
82MC127C	43 55 3	72 0 20	1.00	.20	10.0	>2.0	500	N	N	N	70	300	10	70	N
82MC128C	43 53 52	72 0 20	2.00	.50	20.0	>2.0	500	N	N	N	200	300	N	N	20
82MC129C	43 53 46	72 2 45	1.50	.50	20.0	>2.0	1,000	N	N	N	70	150	N	N	10
82MC130C	43 51 25	72 3 17	1.50	.20	20.0	>2.0	500	N	N	N	70	200	100	150	N
82MC131C	43 51 24	72 3 22	1.00	.20	10.0	>2.0	500	N	N	N	50	200	2	N	N
82MC132C	43 52 7	72 3 24	1.00	.20	5.0	2.0	300	N	N	N	70	300	2	N	N
82MC133C	43 53 6	72 4 45	1.00	.20	7.0	>2.0	500	N	N	N	70	200	2	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82LD206C	150	300	700	N	70	70	150	N	30	N	700	300	N	300	N
82LD207C	150	200	200	N	70	N	150	N	30	N	700	300	N	300	N
82LD208C	100	150	500	N	50	N	150	N	30	N	700	200	N	300	N
82LD209C	150	200	300	N	50	N	300	N	30	N	700	300	N	300	N
82LD210C	150	200	200	N	70	N	1,000	N	30	150	700	300	N	300	N
82LD212C	150	500	100	N	70	N	70	N	30	N	700	300	N	200	N
82LD215C	50	30	150	N	N	N	70	N	20	N	500	200	N	100	N
82LD216C	20	<10	N	N	N	N	N	N	20	N	200	100	N	50	N
82LD218C	150	150	100	N	100	N	50	N	30	N	700	300	N	150	N
82LD219C	50	150	100	N	100	N	20	N	20	N	700	300	N	70	N
82LD220C	50	1,000	70	N	70	70	50	N	20	N	700	200	N	100	N
82MC100C	100	10	300	N	150	N	50	N	10	20	1,500	200	N	200	N
82MC101C	150	50	200	N	100	N	20,000	N	10	150	700	200	300	200	N
82MC102C	50	10	300	N	100	N	150	N	10	30	700	150	200	200	N
82MC103C	150	50	200	N	150	N	300	N	10	20	1,000	200	500	150	N
82MC104C	150	50	200	N	150	N	150	N	10	30	700	200	500	200	N
82MC105C	100	10	100	N	50	N	70	N	10	N	700	100	200	500	N
82MC106C	150	20	50	N	100	N	50	N	10	300	500	100	200	300	N
82MC107C	N	50	500	500	200	N	100	N	10	100	200	150	300	1,000	N
82MC108C	70	20	N	N	50	N	20	N	10	N	700	100	700	200	N
82MC109C	150	100	100	N	100	N	20	N	10	N	700	150	200	200	N
82MC110C	70	10	50	N	70	N	20	N	10	N	700	150	<100	200	N
82MC111C	100	20	50	N	50	N	20	N	10	N	700	150	300	300	N
82MC112C	150	30	150	N	70	N	20	N	10	N	1,000	150	300	200	N
82MC113C	150	30	200	N	100	N	150	N	10	500	700	150	300	150	N
82MC114C	150	30	100	N	100	N	50	N	10	30	700	150	300	150	N
82MC115C	N	20	N	N	100	N	20	N	10	N	500	150	200	300	N
82MC116C	150	20	50	N	100	N	20	N	10	30	1,000	150	100	150	N
82MC117C	150	50	50	N	100	N	20	N	10	N	700	150	500	100	N
82MC118C	150	30	150	N	100	N	50	N	10	70	700	150	200	100	N
82MC119C	100	20	100	N	150	N	20	N	10	N	700	200	N	100	N
82MC120C	100	20	50	N	100	N	500	N	10	150	700	150	500	150	N
82MC121C	150	20	150	N	100	N	20	N	10	70	700	150	1,000	200	N
82MC122C	70	20	100	N	100	N	20	N	10	N	700	150	N	100	N
82MC123C	N	200	500	N	150	N	20	N	10	150	700	200	500	200	N
82MC124C	150	20	200	N	150	N	N	N	30	150	1,000	150	500	200	N
82MC125C	N	20	200	N	150	N	N	N	10	50	700	150	1,000	200	N
82MC126C	150	20	500	N	150	N	20	N	10	50	700	200	<100	300	N
82MC127C	150	20	200	N	150	N	20	N	10	N	700	150	200	300	N
82MC128C	100	20	100	N	N	N	N	N	30	N	700	200	100	300	N
82MC129C	150	20	100	N	70	N	N	N	10	20	700	150	1,000	300	N
82MC130C	150	20	50	N	70	N	N	N	10	20	700	150	500	300	N
82MC131C	150	10	50	N	70	N	20	N	10	100	700	100	700	300	N
82MC132C	N	<10	50	15	<50	N	20	N	10	N	500	150	1,500	100	N
82MC133C	150	20	50	N	100	N	20	N	10	20	700	200	200	100	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82MC134C	43 51 21	72 7 8	1.00	.20	10.0	>2.0	500	N	N	N	100	150	5	N	N
82MC135C	43 52 39	72 5 52	2.00	.50	10.0	>2.0	1,000	N	N	N	200	200	2	N	N
82MC136C	43 54 30	72 4 27	2.00	.50	10.0	>2.0	500	N	N	N	150	150	N	N	N
82MC138C	43 55 30	72 6 46	2.00	1.00	15.0	>2.0	1,000	N	N	N	300	200	2	N	N
82MC139C	43 53 51	72 8 9	1.00	.50	10.0	>2.0	1,000	N	N	N	100	200	N	N	N
82MC140C	43 46 12	72 14 19	1.00	.20	7.0	>2.0	500	N	N	N	300	N	10	N	10
82MC141C	43 47 34	72 12 9	.70	.20	5.0	>2.0	500	N	N	N	200	200	5	N	N
82MC142C	43 50 30	72 12 24	2.00	.50	10.0	>2.0	1,000	N	N	N	300	150	N	N	N
82MC143C	43 51 42	72 14 24	1.00	.50	10.0	>2.0	1,000	N	N	N	200	100	N	N	N
82MC144C	43 53 38	72 11 55	1.00	.50	10.0	>2.0	500	N	N	N	100	150	2	N	N
82MC146C	43 55 40	72 14 25	.70	.50	5.0	>2.0	500	N	N	N	200	100	N	N	N
82MC147C	43 57 43	72 14 4	1.00	.50	20.0	>2.0	700	N	N	N	150	100	2	N	N
82MC148C	43 59 53	72 14 27	1.00	.20	5.0	>2.0	1,000	N	N	N	100	50	N	N	N
82MC149C	43 49 8	72 10 57	1.00	.20	10.0	>2.0	1,000	N	N	N	150	200	N	N	N
82MC150C	43 51 52	72 11 15	2.00	.20	10.0	>2.0	1,500	N	N	N	150	150	N	N	N
82MC151C	43 55 12	72 9 41	1.00	.20	10.0	>2.0	1,000	N	N	N	100	200	N	N	N
82MC152C	43 56 32	72 8 3	1.50	.50	10.0	>2.0	1,500	N	N	N	100	150	N	N	N
82MC153C	43 57 0	72 10 25	1.00	.20	20.0	>2.0	1,000	N	N	N	100	50	N	N	N
82MC154C	43 58 12	72 9 48	1.00	.50	10.0	>2.0	1,000	N	N	N	150	100	7	N	N
82MC155C	43 58 47	72 10 43	1.00	.20	10.0	>2.0	1,500	N	N	N	70	100	7	N	N
82MC156C	43 58 51	72 10 39	1.00	.50	10.0	>2.0	1,000	N	N	N	70	200	2	N	N
82MC157C	43 57 16	72 12 50	2.00	.50	10.0	>2.0	1,500	N	N	N	150	100	N	N	N
82MC158C	43 57 28	72 13 3	1.00	.50	10.0	>2.0	1,500	N	N	N	100	100	N	N	N
82MC159C	43 54 18	72 12 44	2.00	1.00	10.0	>2.0	1,500	N	N	N	150	100	N	N	N
82MC160C	43 56 36	72 8 14	2.00	.50	10.0	>2.0	1,500	N	N	N	100	150	N	N	N
82MC161C	43 57 47	72 7 40	1.50	.50	10.0	>2.0	2,000	N	N	N	100	200	N	N	N
82MC162C	43 56 8	72 7 18	1.50	.50	10.0	>2.0	1,000	N	N	N	150	200	2	N	N
82PY100C	43 30 3	72 43 31	1.00	1.00	50.0	>2.0	1,000	N	N	N	500	150	N	N	70
82PY101C	43 30 26	72 43 56	5.00	2.00	50.0	>2.0	1,000	N	N	N	1,000	100	N	N	200
82PY102C	43 32 18	72 44 45	1.00	2.00	50.0	>2.0	1,000	N	N	N	1,000	100	N	N	70
82PY103C	43 34 3	72 44 10	15.00	1.00	50.0	>2.0	500	N	N	N	500	100	N	N	200
82PY104C	43 34 2	72 44 1	2.00	.50	50.0	>2.0	1,500	N	N	N	70	100	2	N	100
82PY105C	43 32 10	72 43 2	3.00	.50	50.0	>2.0	1,500	N	N	N	500	500	2	N	10
82PY106C	43 32 15	72 43 36	2.00	.20	20.0	>2.0	1,500	N	N	N	200	100	N	N	10
82PY107C	43 33 37	72 42 14	1.50	.50	50.0	>2.0	1,500	N	N	N	100	200	2	N	10
82PY108C	43 33 53	72 41 19	2.00	.70	30.0	>2.0	2,000	N	N	N	300	200	N	N	50
82PY109C	43 34 36	72 39 48	5.00	.70	30.0	>2.0	5,000	N	N	N	300	200	N	N	20
82PY110C	43 31 48	72 40 59	2.00	.50	20.0	>2.0	2,000	N	N	N	200	150	N	N	10
82PY111C	43 31 33	72 40 39	10.00	1.00	20.0	>2.0	2,000	N	N	N	300	300	N	N	100
82PY112C	43 31 33	72 40 13	2.00	.50	10.0	>2.0	1,000	N	N	N	300	150	N	N	20
82PY113C	43 30 56	72 39 42	5.00	.50	5.0	>2.0	7,000	N	N	N	300	150	N	N	10
82PY114C	43 30 58	72 39 36	1.00	.20	1.5	1.5	1,000	N	N	N	50	50	N	N	10
82PY115C	43 32 8	72 39 27	2.00	.70	50.0	>2.0	5,000	N	N	N	700	150	N	N	100
82PY116C	43 32 26	72 39 16	2.00	.50	20.0	>2.0	2,000	N	N	N	700	70	N	N	70
82PY117C	43 33 0	72 39 32	2.00	.50	50.0	>2.0	2,000	N	N	N	500	100	N	N	50

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82MC134C	150	20	50	N	100	N	20	N	10	N	700	150	100	100	N
82MC135C	150	20	150	N	100	N	20	N	10	N	700	150	500	150	N
82MC136C	100	20	300	N	150	N	20	N	10	300	700	150	500	200	N
82MC138C	150	30	200	N	150	N	50	N	10	20	1,000	150	N	200	N
82MC139C	100	20	150	N	150	N	20	N	10	50	700	150	200	200	N
82MC140C	200	50	50	N	200	N	20	N	10	20	700	200	100	150	N
82MC141C	150	20	50	N	200	N	150	N	10	150	700	150	<100	150	N
82MC142C	150	20	150	N	150	N	20	N	10	20	700	150	100	200	N
82MC143C	150	15	50	N	150	N	20	N	10	20	700	150	<100	100	N
82MC144C	100	15	50	N	100	N	200	N	10	20	700	150	N	100	N
82MC146C	100	20	50	N	150	N	20	N	10	N	700	150	N	70	N
82MC147C	150	30	50	N	150	N	50	N	10	20	1,000	150	N	150	N
82MC148C	100	30	150	N	200	N	20	N	10	20	700	300	N	100	N
82MC149C	150	20	150	N	100	N	20	N	10	20	1,000	200	N	200	N
82MC150C	150	200	100	N	150	N	150	N	10	20	1,500	200	N	200	N
82MC151C	150	30	70	N	200	N	50	N	10	150	1,500	200	N	200	N
82MC152C	100	30	70	N	200	N	50	N	10	20	1,500	200	<100	200	N
82MC153C	150	20	50	N	200	N	50	N	10	20	1,500	200	N	200	N
82MC154C	100	20	50	N	200	N	20	N	10	50	1,500	200	N	200	N
82MC155C	150	30	50	N	200	N	150	N	10	50	1,500	200	N	200	N
82MC156C	70	20	70	N	200	N	50	N	10	20	1,500	200	N	200	N
82MC157C	150	30	70	N	300	N	200	N	10	100	1,500	300	N	200	N
82MC158C	150	20	70	N	200	N	150	N	10	20	1,500	300	200	200	N
82MC159C	200	20	100	N	200	N	50	N	30	20	2,000	200	N	200	N
82MC160C	150	70	50	N	200	N	150	N	10	50	2,000	200	N	150	N
82MC161C	150	100	50	N	200	N	150	N	10	20	1,500	200	<100	150	N
82MC162C	100	15	200	N	100	N	20	N	10	70	1,500	200	100	200	N
82PY100C	100	150	200	N	70	N	150	N	30	20	700	200	N	500	N
82PY101C	70	200	200	N	50	N	100	N	20	20	700	200	N	300	N
82PY102C	50	20	100	N	50	N	100	N	10	N	500	200	N	300	N
82PY103C	50	300	200	N	70	100	500	N	10	N	500	150	N	200	N
82PY104C	N	20	150	N	<50	N	100	N	10	N	700	100	<100	300	N
82PY105C	100	100	500	N	70	N	150	N	10	N	700	200	N	300	N
82PY106C	100	30	N	N	100	N	20	N	10	N	500	200	N	150	N
82PY107C	70	100	N	N	70	N	700	N	10	500	700	200	N	150	N
82PY108C	150	200	50	N	100	N	70	N	10	N	700	300	N	200	N
82PY109C	150	200	100	N	100	N	70	N	10	20	700	300	N	150	N
82PY110C	50	100	200	N	50	N	N	N	10	N	500	150	N	200	N
82PY111C	150	500	150	N	150	150	200	N	20	20	500	200	N	200	N
82PY112C	100	100	50	N	70	N	20	N	10	N	500	200	N	100	N
82PY113C	50	20	50	N	50	N	N	N	10	N	N	200	N	100	N
82PY114C	N	50	N	N	<50	N	N	N	10	N	N	70	N	50	N
82PY115C	100	200	50	N	100	N	50	N	10	N	500	200	N	200	N
82PY116C	150	200	N	N	100	N	20	N	10	N	500	200	N	150	N
82PY117C	70	300	50	N	70	N	20	N	10	N	500	200	N	150	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82PY118C	43 32 58	72 39 41	5.00	.50	20.0	>2.0	3,000	N	N	N	300	150	N	N	100
82PY119C	43 33 52	72 39 42	2.00	.50	20.0	>2.0	1,500	N	N	N	70	100	N	N	70
82PY120C	43 35 24	72 39 51	5.00	.50	20.0	>2.0	2,000	N	N	N	200	150	N	N	100
82PY121C	43 36 42	72 39 15	2.00	.50	50.0	>2.0	1,500	N	N	N	500	100	N	N	70
82PY122C	43 37 11	72 39 47	3.00	.50	50.0	>2.0	1,500	N	N	N	200	150	N	N	100
82PY123C	43 37 53	72 40 58	2.00	.20	50.0	>2.0	1,000	N	700	N	150	150	N	N	30
82PY124C	43 37 3	72 39 6	2.00	.20	20.0	>2.0	1,500	N	N	N	150	100	N	N	15
82PY125C	43 35 54	72 40 27	2.00	.50	20.0	>2.0	2,000	50	N	150	200	150	N	N	10
82PY126C	43 35 50	72 41 28	5.00	.50	20.0	>2.0	1,000	N	700	N	300	200	2	N	70
82PY127C	43 35 36	72 42 0	2.00	.50	30.0	>2.0	1,500	N	500	N	150	200	2	N	70
82PY128C	43 35 39	72 42 36	2.00	.50	20.0	>2.0	1,000	N	N	N	200	150	N	N	20
82PY129C	43 36 2	72 42 50	5.00	1.00	50.0	>2.0	1,500	N	N	N	500	300	2	N	20
82PY130C	43 35 50	72 43 14	5.00	1.00	50.0	>2.0	1,500	N	N	N	700	300	2	N	70
82PY131C	43 36 7	72 43 44	5.00	1.00	50.0	>2.0	1,500	N	N	N	1,000	300	2	N	20
82PY132C	43 36 14	72 43 51	2.00	.30	50.0	>2.0	1,500	N	N	N	300	200	2	N	50
82ST100C	43 52 48	72 21 47	2.00	.50	10.0	>2.0	1,500	N	N	N	500	100	N	N	15
82ST101C	43 53 20	72 22 15	5.00	.70	10.0	>2.0	1,500	N	N	N	500	70	N	N	15
82ST103C	43 55 16	72 25 14	2.00	.50	10.0	>2.0	1,500	N	N	N	700	70	N	N	15
82ST104C	43 55 48	72 21 56	2.00	.50	10.0	>2.0	1,500	N	N	N	300	70	N	N	15
82ST105C	43 55 52	72 23 0	2.00	.50	10.0	>2.0	1,500	N	N	N	200	70	N	N	15
82ST106C	43 54 49	72 23 46	1.50	.50	10.0	>2.0	1,500	N	N	N	300	50	N	N	15
82ST107C	43 54 40	72 23 35	2.00	.50	10.0	>2.0	1,500	N	N	N	500	50	N	N	15
82ST108C	43 54 34	72 21 22	2.00	.50	10.0	>2.0	1,500	N	N	N	500	50	N	N	15
82ST109C	43 54 10	72 21 12	2.00	.50	10.0	>2.0	1,000	N	N	N	500	50	N	N	15
82ST110C	43 55 23	72 19 33	2.00	.70	10.0	>2.0	2,000	N	N	N	500	100	N	N	20
82ST111C	43 55 48	72 19 20	1.50	.50	10.0	>2.0	1,500	N	N	N	300	100	N	N	15
82ST112C	43 59 37	72 25 42	2.00	.50	10.0	>2.0	1,500	N	N	N	300	50	N	N	15
82ST113C	43 49 33	72 23 15	2.00	.50	20.0	>2.0	1,500	N	N	N	500	100	N	N	15
82ST114C	43 58 20	72 20 31	2.00	.70	20.0	>2.0	1,500	N	N	N	500	70	7	N	15
82ST115C	43 58 24	72 19 54	2.00	.50	20.0	>2.0	1,500	N	N	N	500	70	N	N	10
82ST116C	43 58 14	72 19 38	2.00	.70	10.0	>2.0	1,500	N	N	N	500	50	N	N	10
82ST117C	43 57 45	72 18 30	2.00	.50	5.0	>2.0	1,500	N	N	N	300	50	5	N	10
82ST118C	43 57 32	72 18 3	2.00	1.00	10.0	>2.0	1,500	N	N	N	500	50	5	N	10
82ST119C	43 59 18	72 18 0	1.50	.70	10.0	>2.0	1,500	N	N	N	500	50	7	N	10
82ST120C	43 57 32	72 16 39	2.00	1.00	20.0	>2.0	1,500	N	N	N	200	N	N	N	10
82ST121C	43 57 12	72 15 22	1.50	.70	10.0	>2.0	1,500	N	N	N	150	70	N	N	10
82ST122C	43 51 13	72 22 9	2.00	.50	10.0	>2.0	1,500	N	N	N	300	N	N	N	15
82ST123C	43 54 10	72 23 18	1.00	.20	10.0	>2.0	1,000	N	N	N	300	N	N	100	10
82ST124C	43 53 28	72 24 2	2.00	.50	7.0	>2.0	1,500	N	N	N	500	N	N	N	10
82ST125C	43 53 54	72 21 36	5.00	.20	10.0	>2.0	1,500	N	N	N	300	N	N	500	30
82ST126C	43 54 40	72 21 12	2.00	.50	10.0	>2.0	1,500	N	N	N	300	100	N	N	10
82ST127C	43 52 19	72 16 6	1.50	.70	5.0	>2.0	1,500	N	N	N	300	N	N	N	10
82ST128C	43 55 22	72 17 54	2.00	.50	5.0	>2.0	1,500	N	N	N	200	N	N	N	10
82ST129C	43 54 54	72 17 6	2.00	1.00	10.0	>2.0	2,000	N	N	N	500	70	5	N	10
82ST200C	43 49 0	72 29 9	2.00	.30	5.0	>2.0	2,000	N	N	N	500	100	N	N	10

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82PY118C	70	200	300	N	70	N	20	N	10	N	500	200	N	150	N
82PY119C	100	20	50	N	50	N	<20	N	10	N	500	200	N	70	N
82PY120C	50	300	300	N	50	50	200	N	10	N	500	150	N	100	N
82PY121C	70	70	50	N	70	N	30	N	10	N	700	200	N	300	N
82PY122C	70	300	100	N	70	N	150	N	10	150	700	200	N	200	N
82PY123C	50	50	150	N	50	N	500	N	10	N	700	150	N	300	N
82PY124C	N	15	N	N	50	N	20	N	10	N	500	150	N	100	N
82PY125C	50	50	50	N	70	N	700	N	10	N	500	150	N	200	N
82PY126C	100	200	300	N	50	N	50	N	10	N	500	200	N	200	N
82PY127C	100	100	300	N	70	N	50	N	10	N	700	200	N	300	N
82PY128C	N	100	200	N	50	N	100	N	10	N	500	150	N	200	N
82PY129C	150	200	200	N	70	N	70	N	10	N	700	300	N	300	N
82PY130C	100	300	200	N	<50	N	200	N	10	100	700	200	N	300	N
82PY131C	70	150	500	N	70	N	100	N	10	N	700	200	N	300	N
82PY132C	50	20	150	N	<50	N	500	N	10	300	700	150	N	300	N
82ST100C	200	70	N	N	200	N	100	N	10	70	1,500	500	N	200	N
82ST101C	200	70	N	N	500	N	100	N	10	70	1,500	500	<100	150	N
82ST103C	150	50	N	N	200	N	70	N	10	50	1,000	500	<100	150	N
82ST104C	150	70	N	N	200	N	70	N	10	50	1,000	300	<100	150	N
82ST105C	150	50	N	N	300	N	70	N	10	50	1,500	300	<100	200	N
82ST106C	150	30	N	N	200	N	70	N	10	50	1,000	300	<100	200	N
82ST107C	150	300	N	N	300	N	70	N	10	50	1,000	300	150	200	N
82ST108C	150	70	N	N	500	N	50	N	10	50	700	300	500	200	N
82ST109C	200	50	N	N	300	N	70	N	10	50	1,000	300	<100	200	N
82ST110C	150	50	N	N	500	N	20	N	10	50	700	300	100	100	N
82ST111C	150	30	N	N	300	N	100	N	10	50	1,000	300	<100	150	N
82ST112C	150	30	200	N	200	N	70	N	10	50	1,500	300	<100	150	N
82ST113C	150	50	N	N	200	N	300	N	10	50	1,500	300	N	200	N
82ST114C	150	150	N	N	300	N	70	N	10	50	1,500	300	<100	200	N
82ST115C	150	70	N	N	300	N	50	N	10	50	700	300	100	200	N
82ST116C	200	100	N	N	200	N	70	N	10	50	1,000	300	<100	150	N
82ST117C	700	50	50	N	200	10	50	N	10	50	1,000	300	N	150	N
82ST118C	150	70	50	N	200	10	100	N	10	70	1,500	300	<100	150	N
82ST119C	150	50	N	N	150	N	70	N	10	50	1,500	300	N	150	N
82ST120C	150	100	N	N	150	10	70	N	10	50	1,500	300	N	150	N
82ST121C	100	15	N	N	150	10	50	N	10	N	1,000	300	N	70	N
82ST122C	200	100	N	N	300	N	50	N	10	50	700	300	200	100	N
82ST123C	150	50	N	N	200	N	50	N	10	50	1,000	300	<100	150	N
82ST124C	150	50	N	N	300	10	50	N	10	70	1,500	300	100	100	N
82ST125C	200	100	N	N	300	10	100	N	10	70	1,500	300	150	150	N
82ST126C	150	50	N	N	300	10	100	N	10	70	1,500	300	N	150	N
82ST127C	150	10	N	N	150	10	20	N	10	N	700	300	<100	70	N
82ST128C	150	150	N	N	300	10	500	N	10	50	700	300	200	150	N
82ST129C	150	150	N	N	300	10	50	N	10	50	1,500	300	150	150	N
82ST200C	150	50	150	N	150	10	50	N	10	N	700	300	N	70	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82ST202C	43 46 49	72 25 29	2.00	.30	5.0	>2.0	1,500	N	N	N	300	150	N	N	15
82ST203C	43 45 14	72 24 18	1.50	.30	2.0	>2.0	1,000	N	N	N	200	N	N	N	10
82ST204C	43 46 12	72 22 49	2.00	.50	2.0	>2.0	1,500	N	N	N	2,000	70	N	N	20
82ST205C	43 46 28	72 23 35	2.00	.50	2.0	>2.0	3,000	N	N	N	2,000	100	N	N	20
82ST206C	43 45 20	72 21 36	2.00	.50	5.0	>2.0	1,500	N	N	N	1,000	50	N	N	10
82ST207C	43 46 23	72 22 24	2.00	.30	2.0	>2.0	1,500	N	N	N	1,000	100	N	N	20
82ST208C	43 47 52	72 26 23	2.00	.70	7.0	>2.0	1,500	N	N	N	1,000	150	N	N	10
82ST209C	43 49 51	72 23 18	2.00	.70	10.0	>2.0	1,500	N	N	N	1,000	300	N	N	20
82ST210C	43 50 59	72 23 24	5.00	2.00	10.0	>2.0	1,500	N	N	N	2,000	100	N	N	20
82ST211C	43 52 14	72 23 28	2.00	2.00	10.0	>2.0	1,500	N	N	N	3,000	150	N	N	10
82ST212C	43 52 20	72 23 30	2.00	.70	7.0	>2.0	1,500	N	N	N	700	100	N	N	10
82ST213C	43 54 18	72 24 44	2.00	.50	20.0	>2.0	1,500	N	N	N	500	70	N	N	10
82ST214C	43 54 49	72 27 58	2.00	.50	20.0	>2.0	1,500	N	N	N	500	100	N	N	10
82ST215C	43 55 20	72 27 54	2.00	.30	7.0	>2.0	1,000	N	N	N	300	N	N	N	10
82ST216C	43 57 20	72 27 39	2.00	.50	10.0	>2.0	1,500	N	N	N	300	70	N	N	10
82ST217C	43 56 43	72 27 11	2.00	.50	15.0	>2.0	1,500	N	N	N	500	100	N	N	10
82ST218C	43 57 42	72 24 15	2.00	.20	5.0	>2.0	1,500	N	N	N	500	N	30	N	10
82ST219C	43 57 36	72 25 0	2.00	.20	10.0	>2.0	1,000	N	N	N	500	N	N	N	20
82ST220C	43 58 17	72 27 25	2.00	.50	10.0	>2.0	1,000	N	N	N	200	70	N	N	10
82ST221C	43 57 8	72 29 42	1.00	.50	5.0	2.0	1,000	N	N	N	200	100	2	N	10
82ST222C	43 54 41	72 29 17	2.00	.50	5.0	>2.0	1,000	N	N	N	200	50	2	N	30
82ST223C	43 52 24	72 27 20	5.00	.70	5.0	>2.0	3,000	N	N	N	300	50	5	N	30
82ST224C	43 58 40	72 29 33	2.00	.50	2.0	>2.0	1,500	N	N	N	150	150	2	N	10
82ST225C	43 58 23	72 29 24	2.00	.50	2.0	>2.0	1,000	N	N	N	300	50	2	N	20
82ST226C	43 59 42	72 29 19	2.00	.50	5.0	>2.0	1,000	N	N	N	300	50	2	N	10
82ST227C	43 54 0	72 27 57	2.00	.50	10.0	>2.0	1,000	N	N	N	1,000	50	N	N	20
82ST228C	43 52 54	72 29 24	2.00	.50	5.0	>2.0	1,500	N	N	N	700	50	N	N	10
82ST229C	43 52 26	72 27 14	2.00	.50	5.0	>2.0	1,000	N	N	N	500	50	N	N	20
82ST230C	43 51 56	72 28 54	1.50	.50	2.0	>2.0	500	N	N	N	300	50	N	N	10
82ST231C	43 51 25	72 29 30	1.50	.20	2.0	>2.0	500	N	N	N	300	50	N	N	10
82ST232C	43 48 54	72 29 53	2.00	.20	1.5	>2.0	200	N	N	N	300	N	N	N	15
82ST233C	43 48 23	72 30 1	2.00	.50	2.0	>2.0	300	N	N	N	300	50	N	N	15
82ST234C	43 48 42	72 27 12	1.50	.20	5.0	>2.0	500	N	N	N	300	50	N	N	10
82ST235C	43 50 58	72 26 11	2.00	.50	5.0	>2.0	1,500	N	N	N	500	50	N	N	15
82ST236C	43 49 38	72 26 15	2.00	1.00	10.0	>2.0	2,000	N	N	N	1,000	100	2	N	10
82ST237C	43 46 0	72 29 6	2.00	.20	5.0	>2.0	1,500	N	N	N	200	N	N	N	10
82ST238C	43 45 18	72 28 51	2.00	.70	2.0	>2.0	1,500	N	N	N	500	N	N	N	10
82ST239C	43 46 42	72 29 17	2.00	.50	5.0	>2.0	1,000	N	N	N	150	100	2	N	10
82ST240C	43 48 52	72 25 6	2.00	1.00	5.0	>2.0	1,500	N	N	N	700	50	N	N	15
82ST241C	43 48 54	72 22 19	2.00	.20	5.0	>2.0	1,000	N	N	N	300	100	N	N	10
82ST242C	43 48 35	72 22 12	2.00	.50	5.0	>2.0	1,000	N	N	N	500	50	N	N	10
82ST243C	43 50 5	72 20 54	2.00	.50	10.0	>2.0	1,000	N	N	N	500	50	2	N	10
82ST244C	43 48 42	72 19 42	1.00	.50	2.0	>2.0	700	N	N	N	500	50	5	N	10
82ST245C	43 46 59	72 18 14	1.50	.70	5.0	>2.0	1,000	N	N	N	200	50	15	N	10
82ST246C	43 46 30	72 20 36	5.00	1.00	2.0	>2.0	2,000	N	N	N	500	50	7	N	10

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82ST202C	200	50	N	N	300	10	20	N	10	20	500	300	<100	70	N
82ST203C	150	30	N	N	300	10	150	N	10	20	500	300	<100	50	N
82ST204C	300	100	N	N	300	10	20	N	10	70	N	300	<100	70	N
82ST205C	300	100	N	N	300	10	20	N	10	70	N	300	<100	70	N
82ST206C	200	50	N	N	300	15	20	N	10	50	700	300	<100	100	N
82ST207C	200	100	N	N	500	10	20	N	10	50	700	300	<100	70	N
82ST208C	200	50	100	N	200	10	50	N	10	20	1,000	300	<100	70	N
82ST209C	150	70	100	N	300	10	150	N	10	100	1,000	300	<100	100	N
82ST210C	300	100	150	N	300	20	150	N	10	300	1,500	500	200	150	N
82ST211C	150	150	50	N	300	10	700	N	10	200	1,000	300	<100	150	N
82ST212C	200	300	N	N	200	10	50	N	10	50	1,000	300	200	100	N
82ST213C	150	30	150	N	200	15	100	N	10	50	2,000	300	<100	200	N
82ST214C	300	100	150	N	200	20	100	N	10	50	1,500	300	<100	150	N
82ST215C	200	100	N	N	300	10	150	N	10	70	1,500	300	<100	150	N
82ST216C	200	70	N	N	200	10	150	N	10	50	2,000	300	100	150	N
82ST217C	200	70	100	N	300	10	150	N	10	50	2,000	300	<100	150	N
82ST218C	200	70	N	N	200	10	200	N	10	200	1,000	300	500	150	N
82ST219C	200	50	N	N	200	10	100	N	10	70	1,500	300	100	200	N
82ST220C	200	200	70	N	150	10	500	N	10	70	1,500	300	<100	100	N
82ST221C	20	10	300	N	70	10	20	N	10	N	500	200	N	50	N
82ST222C	200	50	100	N	150	20	200	N	10	N	500	300	N	70	N
82ST223C	200	100	200	N	150	20	50	N	10	N	500	300	N	70	N
82ST224C	150	10	50	N	70	10	30	N	10	N	500	200	N	20	N
82ST225C	150	100	300	N	150	20	30	N	10	N	500	300	300	70	N
82ST226C	150	50	200	N	200	20	100	N	10	N	1,500	300	N	70	N
82ST227C	500	150	150	N	300	10	500	N	10	50	1,500	500	<100	150	N
82ST228C	200	100	300	N	200	20	50	N	10	50	1,000	300	150	100	N
82ST229C	200	200	50	N	200	10	500	N	10	50	1,000	500	100	100	N
82ST230C	150	20	N	N	200	20	50	N	10	20	500	300	<100	50	N
82ST231C	150	300	N	N	200	10	30	N	10	20	500	300	<100	50	N
82ST232C	200	50	50	N	300	10	30	N	10	20	500	300	<100	70	N
82ST233C	150	200	50	N	200	10	200	N	10	20	500	300	N	70	N
82ST234C	150	50	50	N	200	10	200	N	10	20	700	300	N	70	N
82ST235C	200	50	50	N	200	10	50	N	10	20	1,000	300	<100	100	N
82ST236C	150	300	150	N	200	20	50	N	10	20	1,000	300	N	100	N
82ST237C	150	200	150	N	200	10	50	N	10	20	500	300	N	70	N
82ST238C	150	30	50	N	200	10	30	N	10	20	500	300	N	70	N
82ST239C	100	300	50	N	150	10	150	N	10	150	500	300	N	70	N
82ST240C	150	50	70	N	200	10	20	N	10	50	1,000	300	100	100	N
82ST241C	300	300	N	N	200	10	20	N	10	70	700	300	500	150	N
82ST242C	300	70	N	N	200	10	50	N	10	70	700	300	500	70	N
82ST243C	200	700	N	N	200	10	50	N	10	50	1,500	300	100	100	N
82ST244C	200	200	100	N	200	10	20	N	10	N	500	300	100	70	N
82ST245C	200	50	100	N	150	10	100	N	10	150	700	300	N	70	N
82ST246C	200	200	50	N	200	30	30	N	10	20	500	300	N	70	700

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82ST247C	43 46 32	72 19 31	1.50	.50	5.0	>2.0	1,000	N	N	N	500	50	N	N	10
82ST248C	43 46 1	72 18 9	2.00	.70	5.0	>2.0	1,500	N	N	N	500	50	2	N	10
82ST249C	43 47 42	72 16 57	1.50	.50	5.0	>2.0	1,000	N	N	N	500	50	2	N	10
82ST251C	43 50 4	72 19 57	2.00	.50	2.0	>2.0	1,500	N	N	N	200	50	N	N	10
82ST252C	43 49 56	72 17 42	2.00	.50	2.0	>2.0	1,000	N	N	N	300	50	2	N	10
82ST253C	43 49 38	72 17 9	3.00	.50	2.0	>2.0	1,500	N	N	N	200	N	2	N	10
82ST255C	43 51 36	72 16 23	2.00	.70	5.0	>2.0	1,500	N	N	N	200	N	2	N	10
82ST256C	43 46 21	72 15 35	2.00	.70	5.0	>2.0	1,500	N	N	N	200	N	2	N	10
82ST257C	43 52 6	72 19 54	3.00	.70	5.0	>2.0	1,500	N	N	N	300	N	2	N	10
82ST258C	43 53 2	72 19 12	3.00	.70	5.0	>2.0	1,500	N	N	N	300	N	N	N	10
82ST259C	43 53 49	72 18 30	1.00	.30	5.0	>2.0	1,000	N	N	N	200	N	N	N	10
82ST261C	43 55 12	72 17 12	5.00	.70	2.0	>2.0	1,000	10	N	N	5,000	N	N	N	10
82ST262C	43 55 17	72 17 42	1.50	.70	5.0	>2.0	1,000	N	N	N	200	N	N	N	10
82ST263C	43 48 18	72 24 27	2.00	1.00	2.0	>2.0	1,500	N	N	N	1,500	N	N	N	10
82ST265C	43 48 59	72 24 9	2.00	1.00	10.0	>2.0	1,500	N	N	N	2,000	150	N	N	10
82ST268C	43 50 18	72 21 3	2.00	.50	10.0	>2.0	1,000	N	N	N	300	N	N	N	10
82ST269C	43 51 12	72 22 0	2.00	.70	10.0	>2.0	1,500	N	N	N	300	N	N	N	10
82ST271C	43 47 55	72 18 50	2.00	.20	5.0	>2.0	500	N	N	N	500	70	N	N	10
82ST273C	43 55 30	72 17 48	2.00	.70	15.0	>2.0	1,500	N	N	N	500	100	2	500	10
82ST275C	43 56 49	72 16 31	2.00	.70	10.0	>2.0	1,500	N	N	N	500	50	2	N	10
82ST276C	43 54 45	72 16 42	1.50	.50	2.0	>2.0	1,000	N	N	N	200	N	2	N	10
82WA100C	43 29 13	72 56 55	.50	1.00	20.0	>2.0	500	N	N	N	700	70	N	N	N
82WA101C	43 26 2	72 59 31	2.00	.30	10.0	>2.0	1,500	N	N	N	500	150	N	N	10
82WA102C	43 25 3	72 59 50	2.00	.50	20.0	>2.0	500	N	N	N	1,000	1,000	N	N	N
82WA103C	43 24 26	72 59 21	1.00	1.00	20.0	>2.0	1,000	N	N	N	5,000	150	N	N	N
82WA104C	43 15 55	72 59 24	1.00	1.00	20.0	>2.0	1,500	N	N	N	3,000	500	N	N	N
82WA105C	43 18 2	72 59 0	1.00	2.00	7.0	>2.0	300	N	N	N	2,000	100	N	N	N
82WA106C	43 18 56	72 59 13	2.00	20.00	30.0	>2.0	1,500	N	N	N	300	50	N	N	10
82WA107C	43 20 44	72 58 49	1.00	3.00	20.0	>2.0	500	N	N	N	3,000	100	N	N	10
82WA108C	43 22 23	72 57 45	1.00	1.00	10.0	>2.0	1,000	N	N	N	2,000	150	N	N	15
82WA109C	43 22 24	72 57 51	.50	.70	2.0	>2.0	1,000	N	N	N	5,000	150	N	N	N
82WA110C	43 15 14	72 57 33	1.50	.50	20.0	>2.0	1,500	N	N	N	150	150	N	N	10
82WA111C	43 15 27	72 54 4	2.00	7.00	50.0	>2.0	1,000	N	N	N	150	50	N	N	10
82WA112C	43 15 53	72 54 18	1.00	5.00	20.0	>2.0	1,000	N	N	N	150	50	N	N	10
82WA113C	43 16 24	72 53 16	1.50	5.00	20.0	>2.0	1,000	N	N	N	300	150	N	N	10
82WA114C	43 17 30	72 53 55	1.50	1.00	20.0	>2.0	1,500	N	N	N	150	150	N	N	10
82WA115C	43 16 24	72 53 18	1.50	1.00	20.0	>2.0	1,500	N	N	N	150	70	N	N	10
82WA116C	43 20 27	72 54 45	1.00	2.00	20.0	>2.0	1,500	N	N	N	200	70	N	N	N
82WA117C	43 21 36	72 54 0	1.00	2.00	20.0	>2.0	1,000	N	N	N	300	100	N	N	N
82WA118C	43 22 49	72 55 1	2.00	2.00	50.0	>2.0	1,500	N	N	N	200	150	N	N	15
82WA119C	43 27 41	72 55 9	1.50	.50	20.0	>2.0	1,500	N	N	N	150	300	N	N	10
82WA120C	43 27 29	72 55 54	1.00	.70	20.0	>2.0	500	N	N	N	500	500	N	N	10
82WA121C	43 27 10	72 56 42	1.00	.50	20.0	>2.0	500	N	N	N	500	70	N	N	10
82WA122C	43 26 47	72 57 23	1.00	.70	5.0	>2.0	700	N	N	N	300	150	N	N	10
82WA123C	43 26 29	72 58 13	1.00	1.00	10.0	>2.0	2,000	N	N	N	3,000	300	N	N	10

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82ST247C	200	20	50	N	150	10	50	N	10	N	700	200	N	70	N
82ST248C	300	30	50	N	200	10	100	N	10	20	1,000	300	N	70	N
82ST249C	200	20	70	N	100	10	20	N	10	N	700	300	N	70	N
82ST251C	300	100	N	N	300	10	20	N	10	50	500	300	<100	100	N
82ST252C	200	20	50	N	150	10	20	N	10	N	500	200	N	70	N
82ST253C	200	300	50	N	150	10	20	N	10	20	500	300	<100	70	N
82ST255C	200	150	50	N	200	10	100	N	10	300	700	300	<100	70	N
82ST256C	150	150	50	N	200	10	20	N	10	20	700	300	N	70	N
82ST257C	200	70	200	N	200	10	300	N	10	100	700	300	<100	150	N
82ST258C	200	70	N	N	300	10	70	N	10	50	500	300	<100	100	N
82ST259C	200	20	N	N	150	10	20	N	10	20	500	200	N	100	N
82ST261C	300	30,000	N	300	200	10	20	N	10	20	500	300	<100	100	N
82ST262C	150	300	50	N	200	10	20	N	10	20	1,000	200	<100	100	N
82ST263C	200	200	N	N	300	10	<20	N	10	50	500	300	200	150	N
82ST265C	200	200	N	N	300	20	70	N	10	70	700	300	<100	200	N
82ST268C	200	300	50	N	200	10	150	N	10	50	1,000	300	300	70	N
82ST269C	150	150	N	N	200	10	50	N	10	20	700	300	N	70	N
82ST271C	300	50	50	N	300	10	70	N	10	150	700	300	<100	100	N
82ST273C	150	300	50	N	200	20	100	N	10	70	1,500	300	N	150	N
82ST275C	150	30	300	N	200	10	70	N	10	50	1,000	300	N	150	N
82ST276C	150	30	N	N	200	10	20	N	10	20	500	200	N	50	N
82WA100C	70	30	200	N	50	N	100	N	30	N	2,000	200	N	700	N
82WA101C	N	150	50	N	70	N	10,000	N	20	100	200	150	N	200	N
82WA102C	70	100	150	N	70	N	700	N	20	N	700	200	N	700	N
82WA103C	100	100	150	N	70	N	150	N	20	50	700	200	N	700	N
82WA104C	100	30	300	N	50	N	150	N	20	50	700	200	N	1,000	N
82WA105C	100	20	70	N	50	N	100	N	20	N	200	200	N	700	N
82WA106C	N	10	50	N	50	N	20	N	20	N	N	150	N	200	N
82WA107C	150	30	150	N	100	N	150	N	20	N	700	200	N	300	N
82WA108C	100	30	150	N	<50	N	150	N	20	N	1,500	300	N	500	N
82WA109C	100	20	70	N	50	N	1,000	N	30	N	1,500	200	N	700	N
82WA110C	70	30	300	N	70	N	100	N	20	50	500	200	N	500	N
82WA111C	N	20	200	N	70	N	30	N	20	20	200	200	N	300	N
82WA112C	50	20	300	70	50	N	50	N	20	20	200	200	N	300	N
82WA113C	N	20	150	N	100	N	20	N	20	20	200	200	N	300	N
82WA114C	N	30	300	N	70	N	70	N	20	20	500	200	N	300	N
82WA115C	50	30	500	N	100	N	150	N	20	50	500	300	N	300	N
82WA116C	50	15	150	N	N	N	150	N	20	N	2,000	150	N	300	N
82WA117C	100	30	150	N	50	N	150	N	20	N	500	300	N	300	N
82WA118C	100	70	300	N	70	N	2,000	N	20	30	700	300	N	300	N
82WA119C	N	30	70	N	150	N	50	N	20	N	200	200	N	300	N
82WA120C	70	150	300	N	N	N	50	N	20	N	700	200	N	500	N
82WA121C	70	20	200	N	N	N	50	N	20	N	700	200	N	300	N
82WA122C	70	30	50	N	150	N	20	N	20	20	N	300	N	200	N
82WA123C	100	30	70	N	70	N	100	N	20	N	700	200	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
82WA124C	43 20 57	72 54 32	1.00	2.00	10.0	>2.0	1,000	N	N	N	1,000	70	N	N	10
82WA125C	43 27 14	72 59 13	1.00	.50	20.0	>2.0	700	N	N	N	500	100	N	N	10
82WA126C	43 24 35	72 56 24	.70	.30	5.0	>2.0	700	N	N	N	1,000	100	N	N	10
82WA127C	43 24 40	72 56 20	1.00	.30	10.0	>2.0	1,500	N	N	N	1,000	70	N	N	10
82WA128C	43 15 14	72 46 30	1.00	1.00	20.0	>2.0	1,500	N	N	N	150	150	N	N	10
82WA129C	43 15 43	72 47 14	1.00	.70	30.0	>2.0	1,500	N	N	N	200	150	N	N	10
82WA130C	43 16 5	72 48 16	.70	1.00	20.0	>2.0	1,000	N	N	N	200	70	N	N	10
82WA131C	43 16 34	72 48 4	1.00	.70	20.0	>2.0	1,500	N	N	N	150	50	N	N	10
82WA132C	43 21 5	72 46 23	1.50	5.00	30.0	>2.0	1,500	N	N	N	500	50	N	N	20
82WA133C	43 17 56	72 47 9	1.00	1.00	30.0	>2.0	1,000	N	N	N	200	100	N	N	10
82WA134C	43 17 40	72 48 5	1.00	.70	20.0	>2.0	1,000	N	N	N	150	100	N	N	10
82WA135C	43 18 0	72 47 58	1.50	1.00	50.0	>2.0	1,500	N	N	N	300	200	N	N	10
82WA137C	43 20 22	72 48 57	2.00	2.00	20.0	>2.0	1,500	N	N	N	300	200	N	N	30
82WA138C	43 21 14	72 49 37	2.00	1.00	20.0	>2.0	1,500	N	N	N	300	150	N	N	50
82WA139C	43 21 17	72 49 27	2.00	2.00	20.0	>2.0	1,500	N	N	N	1,500	100	N	N	10
82WA140C	43 16 35	72 51 39	2.00	2.00	20.0	>2.0	1,500	N	N	N	500	150	N	N	20
82WA141C	43 15 56	72 50 21	2.00	2.00	20.0	>2.0	1,500	N	N	N	300	<50	N	N	10
82WA142C	43 15 54	72 49 12	1.50	2.00	20.0	>2.0	1,500	N	N	N	300	<50	N	N	10
82WA201C	43 26 42	72 49 30	1.00	2.00	20.0	>2.0	1,000	N	N	N	700	150	N	N	10
82WA202C	43 29 30	72 54 20	1.00	2.00	20.0	>2.0	1,000	N	N	N	3,000	500	N	N	10
82WA203C	43 29 34	72 52 52	1.50	1.00	20.0	>2.0	1,000	N	N	N	3,000	150	N	N	20
82WA204C	43 29 30	72 50 21	.50	1.00	20.0	>2.0	500	N	N	N	500	100	N	N	10
82WA205C	43 28 48	72 49 37	1.00	1.50	20.0	>2.0	1,000	N	N	N	1,000	300	N	N	10
82WA206C	43 28 18	72 48 5	1.00	1.00	20.0	>2.0	700	N	N	N	500	150	N	N	10
82WA207C	43 29 56	72 49 25	1.50	1.00	20.0	>2.0	500	N	N	N	700	300	N	N	10
82WA208C	43 28 38	72 51 17	1.50	1.50	20.0	>2.0	500	N	N	N	1,500	100	N	N	10
82WA210C	43 26 35	72 52 52	1.50	1.50	20.0	>2.0	500	N	N	N	500	1,000	N	N	10
82WA211C	43 25 44	72 53 45	1.00	1.00	10.0	>2.0	500	N	N	N	200	150	N	N	10
82WA213C	43 27 16	72 47 19	1.00	2.00	10.0	>2.0	500	N	N	N	300	150	N	N	15
82WA214C	43 28 53	72 45 23	.70	.70	10.0	>2.0	500	N	N	N	300	50	N	N	10
82WA215C	43 26 25	72 45 51	1.00	1.50	20.0	>2.0	500	N	N	N	700	150	N	N	10
82WA216C	43 27 35	72 54 23	1.00	1.00	20.0	>2.0	500	N	N	N	500	70	N	N	10
82WA217C	43 25 56	72 46 5	1.00	2.00	20.0	>2.0	500	N	N	N	1,500	100	N	N	10
82WA218C	43 24 44	72 46 58	1.00	2.00	20.0	>2.0	500	N	N	N	700	100	N	N	10
82WA219C	43 24 54	72 51 11	1.50	2.00	20.0	>2.0	500	N	N	N	100	200	N	N	30
82WA220C	43 23 36	72 49 39	1.00	2.00	20.0	>2.0	500	N	N	N	700	N	N	N	10
82WA223C	43 21 48	72 47 45	1.50	1.50	20.0	>2.0	500	N	N	N	300	50	N	N	20
82WA226C	43 20 36	72 46 45	1.50	1.50	20.0	>2.0	500	N	N	N	300	100	N	N	10
82WA227C	43 19 28	72 46 46	1.50	2.00	20.0	>2.0	500	N	N	N	500	150	N	N	20
82WA228C	43 20 26	72 49 58	1.50	2.00	20.0	>2.0	500	N	N	N	200	50	N	N	15
83BD200C	43 47 37	73 3 14	.20	.07	2.0	2.0	100	N	N	N	N	700	N	N	N
83BD201C	43 48 17	73 3 24	.30	.05	1.0	>2.0	70	N	N	N	N	N	N	N	N
83BD202C	43 50 32	73 1 27	.30	.05	10.0	2.0	150	N	N	N	N	N	N	N	N
83BD203C	43 51 4	73 1 27	.20	.05	5.0	2.0	100	N	N	N	N	N	N	N	N
83BD204C	43 51 51	73 0 57	.30	.10	5.0	>2.0	100	N	N	N	N	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
82WA124C	100	30	150	N	50	N	100	N	20	30	500	200	N	500	N
82WA125C	100	50	70	N	70	N	200	N	20	500	700	200	N	500	N
82WA126C	50	15	70	N	N	N	150	N	30	30	700	150	N	500	N
82WA127C	50	30	50	N	N	N	100	N	20	N	500	300	N	200	N
82WA128C	150	30	300	N	70	N	150	N	20	70	200	300	N	500	N
82WA129C	70	30	300	N	70	N	70	N	20	30	500	300	N	300	N
82WA130C	70	30	300	N	70	N	150	N	20	30	500	300	N	200	N
82WA131C	70	20	300	N	70	N	150	N	20	30	500	300	N	300	N
82WA132C	100	30	300	N	100	N	150	N	20	50	500	200	N	300	N
82WA133C	70	30	300	N	70	N	150	N	20	70	500	300	N	500	N
82WA134C	70	150	200	N	70	N	150	N	20	150	500	200	N	300	N
82WA135C	100	15	150	N	70	N	150	N	20	70	1,000	200	N	300	N
82WA137C	100	300	200	N	100	N	150	N	20	70	700	300	N	300	N
82WA138C	150	100	150	N	100	N	150	N	20	70	1,500	300	N	500	N
82WA139C	70	150	300	N	70	N	150	500	20	200	700	300	N	300	N
82WA140C	100	30	300	N	100	N	50	N	20	20	700	300	N	300	N
82WA141C	100	30	300	N	100	N	150	N	20	30	700	300	N	300	N
82WA142C	100	30	300	N	70	N	150	N	20	30	200	300	N	500	N
82WA201C	100	30	200	N	70	N	70	N	20	20	500	300	N	300	N
82WA202C	100	30	200	N	70	N	150	N	20	20	700	300	N	300	N
82WA203C	100	30	200	N	70	N	150	N	20	30	700	300	N	300	N
82WA204C	70	30	200	N	100	N	30	N	20	N	500	200	N	300	N
82WA205C	100	30	200	N	70	N	100	N	20	30	700	300	N	500	N
82WA206C	100	30	200	N	70	N	50	N	20	30	200	200	N	300	N
82WA207C	100	30	200	N	100	N	70	N	20	50	200	300	N	300	N
82WA208C	100	30	200	N	70	N	150	N	20	20	200	200	N	300	N
82WA210C	70	20	150	N	50	N	300	N	20	N	700	200	N	300	N
82WA211C	150	30	100	N	N	N	100	N	30	70	200	200	N	300	N
82WA213C	100	20	100	N	50	N	70	N	30	20	200	200	N	300	N
82WA214C	100	20	100	N	50	N	2,000	N	30	20	200	200	N	300	N
82WA215C	150	50	200	N	70	N	70	N	20	20	200	200	N	300	N
82WA216C	50	30	200	N	50	N	150	N	20	N	500	200	N	300	N
82WA217C	100	30	150	N	50	N	100	N	20	20	500	200	N	300	N
82WA218C	100	30	300	N	100	N	100	N	20	50	700	300	N	300	N
82WA219C	70	30	150	N	50	N	70	N	20	N	500	200	N	300	N
82WA220C	70	30	300	N	50	N	150	N	20	30	500	300	N	300	N
82WA223C	70	30	300	N	50	N	100	N	20	30	500	300	N	500	N
82WA226C	100	30	300	N	70	N	150	N	20	50	500	300	N	500	N
82WA227C	100	30	300	N	100	N	150	N	20	50	500	300	N	300	N
82WA228C	100	30	300	N	70	N	150	N	20	50	700	300	N	300	N
83BD200C	150	15	50	N	N	N	500	N	30	150	N	70	N	500	N
83BD201C	150	15	N	N	N	N	20	N	30	N	N	70	N	500	N
83BD202C	100	10	50	N	N	N	20	N	20	N	N	20	N	500	N
83BD203C	70	10	50	N	N	N	20	N	20	N	N	20	N	200	N
83BD204C	100	15	50	N	N	N	200	N	20	50	N	50	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83BD205C	43 51 50	73 0 51	.30	.05	5.0	2.0	70	N	N	N	N	N	N	N	N
83BD206C	43 50 30	73 2 30	.30	.05	5.0	>2.0	70	N	N	N	N	N	N	N	N
83BD207C	43 50 42	73 2 36	.30	.05	10.0	2.0	70	N	N	N	N	N	N	N	N
83BD242C	43 45 44	73 5 53	.20	.10	2.0	2.0	50	N	N	N	50	N	N	N	N
83BD244C	43 49 35	73 7 16	.50	.50	2.0	2.0	100	N	N	N	150	N	7	N	N
83BF200C	43 7 23	72 28 18	.20	.10	2.0	>2.0	70	N	N	N	70	N	N	N	N
83BF201C	43 5 30	72 28 24	.50	.10	5.0	>2.0	150	N	N	N	100	700	N	N	N
83BF202C	43 5 34	72 28 58	.50	.20	2.0	>2.0	200	N	N	N	100	N	N	N	N
83BF203C	43 3 53	72 29 12	.20	.20	5.0	>2.0	150	N	N	N	100	N	N	N	N
83BF204C	43 2 49	72 29 12	.20	.10	.5	>2.0	200	N	N	N	70	N	N	N	N
83BF205C	43 0 27	72 29 30	.20	.10	1.0	>2.0	100	N	N	N	70	N	N	N	N
83BF206C	43 13 26	72 27 10	.50	.20	5.0	>2.0	150	N	N	N	100	N	N	N	N
83BF207C	43 12 35	72 28 24	.20	.50	20.0	>2.0	200	N	N	N	20	N	N	N	N
83BF208C	43 9 34	72 27 40	.20	.20	2.0	>2.0	200	N	N	N	100	N	N	N	N
83BF209C	43 6 35	72 23 50	.50	.10	5.0	>2.0	500	N	N	N	50	N	N	N	N
83BF210C	43 4 28	72 20 4	.50	.20	2.0	>2.0	200	N	N	N	100	N	10	N	N
83BF211C	43 3 9	72 18 47	.50	.10	1.0	>2.0	200	N	N	N	50	N	10	N	N
83BF212C	43 3 8	72 17 50	.50	.10	1.0	>2.0	150	N	N	N	50	N	15	N	N
83BF213C	43 2 31	72 16 48	.50	.10	2.0	>2.0	200	N	N	N	50	N	15	N	N
83BF214C	43 2 13	72 15 42	.50	.10	.7	2.0	100	N	N	N	50	N	50	N	N
83BF215C	43 2 50	72 15 50	.50	.10	2.0	1.0	200	N	N	N	50	N	10	N	N
83BF216C	43 2 46	72 20 8	.50	.20	1.0	>2.0	200	N	N	N	50	N	30	N	N
83BF217C	43 1 20	72 20 5	.50	.10	1.0	>2.0	200	N	N	N	50	N	10	N	N
83BF218C	43 2 13	72 23 26	.20	.10	1.0	>2.0	100	N	N	N	50	N	N	N	N
83BF219C	43 4 0	72 23 36	.50	.10	2.0	>2.0	100	N	N	N	50	N	N	N	N
83BF220C	43 1 4	72 25 40	.50	.10	1.0	>2.0	100	N	N	N	20	N	10	N	N
83BF221C	43 8 7	72 22 20	.50	.10	1.0	>2.0	150	N	N	N	20	N	N	N	N
83BF222C	43 8 10	72 19 28	.50	.20	2.0	>2.0	150	N	N	N	50	200	N	N	N
83BF223C	43 7 30	72 17 5	.50	.20	5.0	2.0	300	N	N	N	20	N	5	N	N
83BF224C	43 11 25	72 17 2	.50	.20	1.0	>2.0	150	N	N	N	50	200	2	N	N
83BF225C	43 9 23	72 15 55	.20	.10	1.0	>2.0	100	N	N	N	20	N	2	N	N
83BF227C	43 10 59	72 18 15	.50	.20	2.0	>2.0	200	N	N	N	50	200	N	N	N
83BF228C	43 10 58	72 20 13	.50	.20	2.0	>2.0	200	N	N	N	100	N	N	N	N
83BF229C	43 10 8	72 17 31	.50	.20	2.0	>2.0	200	N	N	N	50	N	10	N	N
83BF230C	43 13 23	72 16 44	.50	.20	.2	>2.0	150	N	N	N	50	N	20	N	N
83BF231C	43 13 3	72 20 41	.50	.10	1.0	>2.0	150	N	N	N	50	N	10	N	N
83BF232C	43 12 12	72 23 42	.50	.10	.1	>2.0	500	N	N	N	100	N	N	N	N
83BF233C	43 14 17	72 23 51	.50	.10	2.0	>2.0	150	N	N	N	50	N	2	N	N
83CA100C	43 23 3	72 31 30	2.00	.20	5.0	>2.0	700	N	N	N	100	7,000	N	N	10
83CA101C	43 24 33	72 30 12	2.00	.10	5.0	>2.0	500	N	N	N	200	300	N	N	10
83CA103C	43 26 14	72 31 11	2.00	.20	5.0	>2.0	500	N	N	N	300	300	N	N	10
83CA104C	43 28 44	72 30 54	5.00	.20	2.0	>2.0	300	N	7,000	N	500	300	N	N	30
83CA105C	43 29 30	72 33 27	1.00	.20	7.0	>2.0	700	N	N	N	300	300	N	N	10
83CA107C	43 23 38	72 36 6	2.00	.70	7.0	>2.0	700	N	N	N	700	500	N	N	20
83CA108C	43 24 55	72 36 27	10.00	.70	7.0	>2.0	1,500	30	N	N	150	500	N	N	300

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83BD205C	70	10	50	N	N	N	20	N	20	50	N	50	N	300	N
83BD206C	150	100	50	N	N	N	20	N	30	70	N	70	N	300	N
83BD207C	150	10	50	N	N	N	20	N	30	N	N	70	N	300	N
83BD242C	100	15	<50	N	N	N	1,500	N	10	N	N	70	N	200	N
83BD244C	100	15	<50	N	N	N	700	N	20	N	N	100	N	200	N
83BF200C	100	10	<50	N	100	N	N	N	10	N	N	70	150	70	N
83BF201C	100	15	<50	N	100	N	50	N	10	N	200	70	100	70	N
83BF202C	200	15	<50	N	100	N	20	N	50	N	N	70	1,000	70	N
83BF203C	200	15	<50	N	100	N	N	N	10	N	N	70	N	100	N
83BF204C	150	15	<50	N	150	N	N	N	10	N	N	70	N	50	N
83BF205C	150	10	<50	N	100	N	N	N	10	N	N	100	N	50	N
83BF206C	200	10	<50	N	70	N	N	N	10	N	200	70	N	150	N
83BF207C	150	10	<50	N	50	N	N	N	10	N	500	70	N	150	N
83BF208C	200	15	<50	N	100	N	150	N	10	N	N	70	N	100	N
83BF209C	150	20	<50	N	100	N	70	N	10	300	N	70	150	100	N
83BF210C	200	10	50	N	100	N	50	N	10	N	N	70	N	70	N
83BF211C	150	10	50	N	70	N	20	N	10	N	N	70	200	50	N
83BF212C	150	10	50	N	50	N	N	N	10	N	N	100	N	70	N
83BF213C	200	10	50	N	70	N	N	N	10	N	N	100	N	70	N
83BF214C	200	10	50	N	50	N	20	N	10	200	N	150	N	50	N
83BF215C	150	200	50	N	N	N	20	N	10	70	N	70	N	70	N
83BF216C	150	200	50	N	100	N	20	N	10	100	N	70	N	50	N
83BF217C	150	10	<50	N	70	N	N	N	10	100	N	50	N	50	N
83BF218C	150	10	<50	N	100	N	N	N	20	100	N	50	N	50	N
83BF219C	100	10	50	N	100	N	N	N	10	N	N	50	N	100	N
83BF220C	100	10	<50	N	70	N	N	N	10	N	N	50	500	70	N
83BF221C	100	10	<50	N	70	N	50	N	10	N	200	50	100	70	N
83BF222C	200	15	<50	500	N	N	700	N	20	1,000	N	50	1,000	70	N
83BF223C	150	<10	50	N	N	N	20	N	10	N	N	50	N	100	N
83BF224C	200	20	<50	N	100	N	70	N	10	200	N	50	<100	70	N
83BF225C	150	<10	<50	N	50	N	N	N	10	N	N	20	N	50	N
83BF227C	150	15	50	N	100	N	N	N	10	N	N	50	150	100	N
83BF228C	150	15	<50	N	100	N	20	N	20	N	N	50	100	100	N
83BF229C	150	20	<50	N	50	N	N	N	10	200	N	30	N	70	N
83BF230C	200	10	<50	N	100	N	N	N	10	N	N	50	N	50	N
83BF231C	150	15	<50	N	100	N	N	N	20	N	N	50	<100	70	N
83BF232C	200	15	<50	N	150	N	N	N	50	N	N	50	N	50	N
83BF233C	150	50	<50	N	50	N	N	N	20	50	N	20	N	70	N
83CA100C	300	70	N	N	150	N	20	N	10	N	200	300	N	300	N
83CA101C	200	50	70	N	200	N	500	N	10	N	200	300	N	150	N
83CA103C	200	50	150	N	50	20	20	N	10	N	500	300	500	300	N
83CA104C	150	50	N	N	200	10	50	N	10	70	1,000	300	N	50	N
83CA105C	200	200	N	N	150	N	20	N	10	N	500	200	N	100	N
83CA107C	150	50	50	N	70	N	<20	N	10	N	200	300	N	500	N
83CA108C	150	150	N	N	50	N	1,500	N	50	N	200	200	N	500	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83CA109C	43 28 15	72 36 24	2.00	.15	2.0	>2.0	200	N	N	N	200	200	N	N	20
83CA111C	43 28 7	72 34 17	2.00	.15	5.0	>2.0	500	N	N	N	150	200	N	N	20
83CA112C	43 26 51	72 34 52	2.00	.10	10.0	>2.0	700	N	N	N	150	200	N	N	30
83CA113C	43 24 45	72 35 3	1.00	.50	10.0	>2.0	500	N	N	N	200	300	N	N	10
83CA114C	43 24 26	72 33 58	1.00	1.00	10.0	>2.0	700	N	N	N	100	500	N	N	10
83CH100C	43 16 36	72 35 18	1.00	.70	10.0	>2.0	700	N	N	N	700	200	N	N	N
83CH101C	43 16 20	72 35 3	1.00	1.00	2.0	>2.0	200	N	N	N	20	300	N	N	N
83CH102C	43 15 22	72 35 57	2.00	1.00	10.0	>2.0	1,500	N	N	N	20	300	N	N	20
83CH103C	43 17 5	72 36 59	1.00	.50	10.0	>2.0	500	N	N	N	700	300	N	N	N
83CH104C	43 15 19	72 34 16	2.00	.20	10.0	>2.0	500	N	N	N	70	300	N	N	N
83CH105C	43 15 8	72 32 8	1.00	.10	5.0	>2.0	700	N	N	N	20	200	N	N	N
83CH106C	43 19 26	72 30 6	2.00	.20	20.0	>2.0	1,000	N	N	N	500	300	N	N	N
83CH107C	43 20 35	72 32 1	2.00	.15	10.0	>2.0	500	N	N	N	50	300	N	N	N
83CH108C	43 20 57	72 31 58	1.00	.50	5.0	>2.0	300	N	N	N	100	300	N	N	20
83CH109C	43 22 15	72 31 3	2.00	.70	5.0	>2.0	700	N	N	N	100	1,000	N	N	30
83CH200C	43 21 33	72 36 27	.20	.20	5.0	2.0	100	N	N	N	20	N	N	N	N
83CH201C	43 21 52	72 36 12	.15	.50	5.0	2.0	100	N	N	N	70	N	N	N	N
83CH202C	43 20 32	72 34 37	.10	.10	2.0	1.0	70	N	N	N	20	N	N	N	N
83CH203C	43 17 25	72 31 16	.20	.50	7.0	1.0	100	N	N	N	70	N	N	N	N
83CH204C	43 18 1	72 33 3	.20	.20	10.0	1.5	100	N	N	N	20	N	N	N	N
83CH205C	43 18 48	72 34 44	.20	1.00	7.0	1.5	100	N	N	N	20	N	N	N	N
83CH206C	43 19 24	72 40 29	.20	.50	5.0	1.5	100	N	N	N	20	N	N	N	N
83CH207C	43 18 0	72 36 45	.20	1.00	5.0	2.0	100	N	N	N	70	N	N	N	N
83CL100C	43 24 25	72 27 6	2.00	.70	7.0	>2.0	1,500	N	N	N	700	100	N	N	10
83CL101C	43 25 16	72 27 14	2.00	.70	5.0	>2.0	700	N	N	N	700	150	N	N	10
83CL102C	43 22 34	72 29 18	2.00	1.00	7.0	>2.0	700	N	N	N	200	150	N	N	10
83CL103C	43 24 53	72 25 13	5.00	1.00	5.0	>2.0	700	N	N	N	500	200	N	N	10
83CL104C	43 26 10	72 24 20	2.00	.50	2.0	>2.0	300	N	N	N	200	150	N	N	10
83CL105C	43 29 6	72 24 21	2.00	.50	5.0	>2.0	700	N	N	N	1,000	150	N	N	10
83CL106C	43 27 0	72 25 2	2.00	.50	5.0	>2.0	700	N	N	N	700	200	N	N	10
83CL107C	43 27 12	72 25 9	5.00	1.00	5.0	>2.0	500	N	N	N	300	500	N	N	20
83CL108C	43 27 50	72 26 6	2.00	.50	5.0	>2.0	700	N	N	N	500	300	N	N	10
83CL109C	43 28 54	72 29 2	2.00	1.00	2.0	>2.0	500	N	N	N	500	300	N	N	10
83CL110C	43 29 2	72 28 10	2.00	.50	2.0	>2.0	200	N	N	N	700	300	N	N	10
83CL111C	43 15 50	72 29 32	2.00	1.00	5.0	>2.0	500	N	N	N	150	300	N	N	10
83CL112C	43 16 38	72 28 38	1.00	1.00	5.0	>2.0	500	N	N	N	200	300	N	N	10
83CL113C	43 15 2	72 26 30	5.00	1.50	5.0	>2.0	700	N	N	N	150	700	N	N	30
83CL114C	43 17 33	72 27 36	1.50	.50	5.0	>2.0	200	N	N	N	200	500	N	N	10
83CL115C	43 18 51	72 25 52	1.00	1.00	5.0	>2.0	500	N	N	N	300	150	N	N	10
83CL116C	43 19 24	72 26 30	1.00	.50	5.0	>2.0	300	N	N	N	150	150	N	N	10
83CL117C	43 19 3	72 28 28	2.00	1.50	5.0	>2.0	700	N	N	N	1,500	150	N	N	10
83CL118C	43 18 15	72 29 19	2.00	1.50	5.0	>2.0	700	N	N	N	500	200	N	N	N
83CL119C	43 20 58	72 26 21	2.00	1.00	5.0	>2.0	700	N	N	N	1,000	300	N	N	10
83CL120C	43 21 28	72 28 27	1.00	.50	5.0	>2.0	700	N	N	N	150	300	N	N	10
83CL121C	43 20 46	72 29 48	2.00	1.50	7.0	>2.0	700	N	N	N	700	2,000	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83CA109C	150	50	N	N	500	N	N	N	10	N	200	200	N	50	N
83CA111C	300	70	N	N	700	N	30	N	10	N	200	300	N	200	N
83CA112C	200	70	N	N	200	N	30	N	10	N	700	300	N	300	N
83CA113C	100	30	50	N	70	N	20	N	10	N	500	200	N	500	N
83CA114C	100	30	50	N	70	N	300	N	10	N	500	200	N	300	N
83CH100C	70	20	N	N	50	N	50	N	10	N	1,000	200	N	300	N
83CH101C	100	10	N	N	N	N	30	N	50	N	200	150	N	300	N
83CH102C	150	30	50	N	50	N	2,000	N	10	N	500	300	N	500	N
83CH103C	100	20	50	N	70	N	70	N	10	N	500	200	N	300	N
83CH104C	100	70	N	N	N	N	20	N	10	N	700	150	N	500	N
83CH105C	100	20	N	N	N	N	20	N	50	N	200	200	N	700	N
83CH106C	100	50	50	N	50	N	100	N	10	N	700	200	N	500	N
83CH107C	70	10	N	N	N	N	20	N	10	N	500	150	N	300	N
83CH108C	100	50	N	N	50	N	50	N	10	20	200	200	N	300	N
83CH109C	200	2,000	N	N	150	N	500	N	10	N	500	300	N	300	N
83CH200C	50	<10	N	N	N	N	N	N	30	N	N	20	N	150	N
83CH201C	50	<10	N	N	50	N	100	N	20	N	N	20	N	70	N
83CH202C	N	<10	N	N	N	N	N	N	20	N	N	<20	N	70	N
83CH203C	70	<10	N	N	N	N	N	N	10	N	N	<20	N	100	N
83CH204C	50	<10	N	N	N	N	N	N	30	N	N	<20	N	100	N
83CH205C	100	<10	N	N	N	N	20	N	20	20	N	50	N	100	N
83CH206C	70	<10	N	N	N	N	20	N	20	N	N	50	N	70	N
83CH207C	100	<10	N	N	<50	N	20	N	20	N	N	20	N	100	N
83CL100C	300	50	150	N	100	N	50	N	10	50	2,000	700	N	500	N
83CL101C	300	30	70	N	100	N	20	N	10	N	1,000	500	N	300	N
83CL102C	200	50	200	N	50	N	N	N	50	N	500	500	N	500	N
83CL103C	300	70	70	N	500	N	1,000	N	10	70	1,000	500	N	150	N
83CL104C	200	30	N	N	500	N	20	N	10	N	300	500	200	100	N
83CL105C	300	50	N	N	300	N	1,000	N	10	20	300	500	N	100	N
83CL106C	150	100	70	N	200	N	2,000	N	10	1,000	1,000	300	200	200	N
83CL107C	300	70	N	N	500	N	70	N	10	30	700	500	N	100	N
83CL108C	100	20	70	N	200	N	N	N	10	N	700	200	N	100	N
83CL109C	300	70	N	N	500	N	N	N	10	N	500	500	N	50	N
83CL110C	200	50	70	N	500	N	N	N	10	N	500	300	N	50	N
83CL111C	150	30	70	N	70	N	2,000	N	10	N	200	200	N	300	N
83CL112C	70	10	N	N	70	N	N	N	10	N	200	150	N	200	N
83CL113C	100	300	N	N	100	N	N	N	10	50	200	200	1,000	200	N
83CL114C	100	30	70	N	100	N	20	N	10	N	500	200	N	200	N
83CL115C	200	100	70	N	200	N	N	N	10	N	500	200	200	200	N
83CL116C	100	50	70	N	200	N	N	N	10	N	500	200	N	200	N
83CL117C	100	50	100	N	100	N	N	N	10	N	500	150	N	200	N
83CL118C	70	70	N	N	100	N	700	N	10	N	500	150	N	200	N
83CL119C	300	70	70	N	100	N	20	N	10	N	1,000	500	N	200	N
83CL120C	150	50	150	N	150	N	30	N	10	N	500	500	N	300	N
83CL121C	70	20	200	N	100	N	20	N	10	N	700	200	N	500	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83CL122C	43 29 30	72 22 42	5.00	1.00	5.0	>2.0	300	N	N	N	500	300	N	N	10
83CL123C	43 27 54	72 22 0	2.00	.20	2.0	>2.0	300	N	N	N	500	300	N	N	10
83CL124C	43 29 21	72 20 18	2.00	.50	5.0	>2.0	500	N	N	N	500	300	N	N	10
83CL125C	43 29 10	72 18 56	2.00	.50	5.0	>2.0	1,000	N	N	N	500	300	N	N	10
83CL126C	43 28 34	72 17 14	7.00	.20	5.0	>2.0	700	N	N	N	500	300	15	N	20
83CL127C	43 26 48	72 17 38	2.00	.50	5.0	>2.0	1,000	N	N	N	700	300	N	N	10
83CL128C	43 23 17	72 21 10	2.00	.20	5.0	>2.0	700	N	N	N	500	300	10	N	10
83CL129C	43 24 57	72 23 10	5.00	.20	5.0	>2.0	500	N	N	N	200	300	N	N	20
83CL130C	43 26 10	72 19 38	2.00	.50	5.0	>2.0	1,500	N	N	N	700	300	N	N	10
83CL131C	43 23 38	72 19 20	2.00	.20	5.0	>2.0	700	N	N	N	500	500	N	N	10
83CL132C	43 21 43	72 23 38	5.00	.20	2.0	>2.0	700	N	N	N	500	700	N	N	10
83CL133C	43 22 16	72 17 6	2.00	.10	5.0	>2.0	500	N	N	N	200	300	N	N	10
83CL134C	43 23 52	72 15 5	2.00	.20	5.0	>2.0	700	N	N	N	500	300	N	N	10
83CL222C	43 27 8	72 29 28	.20	.05	5.0	1.5	100	N	N	N	50	N	N	N	N
83CL235C	43 21 56	72 25 48	.30	.05	5.0	1.5	70	N	N	N	50	N	N	N	N
83CL255C	43 21 10	72 18 52	.30	.05	2.0	2.0	150	5	N	N	50	N	N	N	N
83CL256C	43 20 48	72 18 41	.10	.05	1.0	2.0	50	N	N	N	20	N	N	N	N
83CL257C	43 20 18	72 18 48	.20	.05	5.0	2.0	100	N	N	N	20	N	N	N	N
83CL258C	43 17 50	72 15 54	.50	.05	.5	2.0	100	N	N	N	20	N	2	N	N
83CL259C	43 17 34	72 15 31	.20	.05	1.0	2.0	100	N	N	N	20	N	30	N	N
83CL261C	43 16 12	72 16 31	.30	.05	.2	2.0	100	N	N	N	20	N	5	N	N
83CL262C	43 16 35	72 17 36	.20	.05	.7	2.0	100	N	N	N	50	N	10	N	N
83CL264C	43 16 6	72 18 27	.50	.10	1.0	2.0	100	N	N	N	100	N	N	N	N
83CL265C	43 17 58	72 19 23	.20	.05	1.0	2.0	100	N	N	N	50	N	N	N	N
83CL266C	43 18 18	72 21 50	.50	.20	2.0	2.0	100	N	N	N	100	N	N	N	N
83CL267C	43 17 3	72 20 44	.50	.05	2.0	2.0	200	N	N	N	100	N	N	N	N
83CL268C	43 15 34	72 20 7	.50	.20	5.0	2.0	200	N	N	N	70	N	7	N	N
83CL269C	43 18 21	72 22 45	.20	.05	1.0	2.0	100	N	N	N	70	N	N	N	N
83CL271C	43 15 26	72 22 32	.50	.20	1.0	2.0	100	N	N	N	100	N	N	N	N
83CL272C	43 15 18	72 23 0	.50	.50	1.0	2.0	200	N	N	N	100	N	N	N	N
83CL280C	43 29 54	72 15 30	1.00	.10	2.0	2.0	150	N	N	N	100	N	N	N	N
83CL281C	43 29 41	72 15 56	.50	.05	1.5	2.0	150	N	N	N	50	N	N	N	N
83CL283C	43 26 8	72 17 30	1.00	.20	2.0	2.0	300	N	N	N	200	N	N	N	N
83DM100C	43 44 21	72 43 18	.50	.10	7.0	1.5	150	N	N	N	20	N	N	N	10
83DM101C	43 44 1	72 44 10	1.00	.05	10.0	2.0	200	N	N	N	20	N	N	N	30
83DM102C	43 44 5	72 44 12	.50	.05	7.0	2.0	150	N	N	N	20	N	N	N	20
83DM103C	43 43 56	72 42 41	2.00	.05	5.0	>2.0	200	N	N	N	30	N	N	N	50
83DM104C	43 42 45	72 43 13	.20	.05	5.0	2.0	150	N	N	N	20	N	N	<20	10
83DM105C	43 42 24	72 43 22	.50	.05	10.0	2.0	200	N	N	N	20	N	N	N	10
83DM106C	43 41 40	72 43 8	.50	.05	10.0	2.0	200	N	N	N	20	N	N	N	N
83DM107C	43 41 9	72 43 4	.20	.05	5.0	2.0	150	N	N	N	20	N	N	30	N
83DM108C	43 44 43	72 39 45	.50	.05	10.0	2.0	200	N	N	N	30	N	N	N	N
83DM109C	43 44 2	72 38 36	1.50	.05	10.0	2.0	200	N	N	N	30	N	N	N	50
83DM110C	43 42 39	72 38 56	.70	.05	5.0	1.5	200	N	N	N	20	N	N	N	10
83DM111C	43 42 2	72 38 51	.70	.10	10.0	2.0	700	1,500	N	500	30	N	N	N	20

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83CL122C	300	100	50	N	300	N	<20	N	10	N	500	300	N	150	N
83CL123C	300	300	150	N	200	N	20	N	10	50	1,000	700	2,000	200	N
83CL124C	300	150	50	N	200	10	20	N	10	N	500	700	N	200	N
83CL125C	300	50	50	N	200	N	<20	N	10	N	500	700	N	100	N
83CL126C	200	300	50	N	200	N	20	N	10	200	500	700	2,000	100	N
83CL127C	200	200	50	N	200	N	70	N	10	1,000	500	500	2,000	150	N
83CL128C	200	150	50	N	500	N	500	N	10	50	700	500	N	200	N
83CL129C	200	200	50	N	300	N	30	N	10	N	700	500	1,000	150	N
83CL130C	200	70	50	N	300	N	30	N	10	N	1,000	500	N	150	N
83CL131C	200	70	50	N	200	N	3,000	N	10	N	700	500	200	200	N
83CL132C	200	700	50	N	200	N	50	N	10	1,000	200	500	20,000	150	N
83CL133C	100	100	50	N	200	N	20	N	10	200	200	200	2,000	200	N
83CL134C	100	70	50	N	300	N	30	N	10	N	200	200	200	500	N
83CL222C	70	<10	<50	N	<50	N	N	N	10	N	N	20	N	50	N
83CL235C	70	<10	N	N	<50	N	N	N	20	N	N	20	N	70	N
83CL255C	100	2,000	N	N	50	N	700	N	10	N	N	20	500	50	N
83CL256C	70	20	N	N	50	N	20	N	15	N	N	20	N	70	N
83CL257C	70	20	N	N	50	N	50	N	10	20	N	20	150	70	N
83CL258C	150	20	N	N	<50	N	20	N	15	20	N	20	N	70	N
83CL259C	70	10	N	N	50	N	70	N	N	100	N	20	150	50	N
83CL261C	70	10	N	N	<50	N	N	N	N	N	N	<20	N	30	N
83CL262C	70	10	N	N	70	N	N	N	10	N	N	50	100	70	N
83CL264C	150	20	N	N	50	N	N	N	10	N	N	100	N	150	N
83CL265C	70	10	N	N	100	N	N	N	10	70	N	100	150	100	N
83CL266C	150	15	N	N	50	N	N	N	20	N	N	100	500	100	N
83CL267C	150	15	N	N	50	N	N	N	10	N	N	100	200	100	N
83CL268C	150	15	N	N	50	N	N	N	20	N	200	100	500	150	N
83CL269C	150	10	N	N	70	N	150	N	30	200	N	100	500	100	N
83CL271C	150	15	N	N	50	N	20	N	15	N	N	100	100	70	N
83CL272C	200	20	N	N	50	N	20	N	20	50	N	100	N	100	N
83CL280C	150	15	N	N	50	N	20	N	15	N	N	100	200	70	N
83CL281C	100	10	70	N	50	N	N	N	15	N	N	100	1,000	50	N
83CL283C	200	15	N	N	50	N	70	N	15	150	200	150	1,000	100	N
83DM100C	70	10	N	N	50	N	N	N	10	N	200	50	N	150	N
83DM101C	70	10	N	N	N	N	20	N	20	N	500	50	N	200	N
83DM102C	50	10	N	N	N	N	<20	N	20	N	200	20	N	150	N
83DM103C	150	15	N	N	70	N	<20	N	30	N	200	50	N	150	N
83DM104C	50	10	N	N	N	N	20	N	20	70	200	20	N	150	N
83DM105C	70	15	N	N	N	N	<20	N	20	N	200	50	N	150	N
83DM106C	70	10	N	N	N	N	<20	N	20	N	500	50	N	150	N
83DM107C	50	<10	N	N	N	N	N	N	20	N	200	20	N	100	N
83DM108C	150	10	N	N	N	N	20	N	10	N	500	50	N	200	N
83DM109C	70	20	N	N	50	N	<20	N	10	N	500	50	N	200	N
83DM110C	20	<10	N	N	N	N	50	N	10	70	200	20	100	70	N
83DM111C	100	20	N	N	N	N	20	N	N	N	200	50	N	100	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83DM112C	43 44 55	72 37 58	.20	.05	5.0	1.5	150	N	N	N	20	N	N	N	N
83DM113C	43 38 46	72 39 28	2.00	.20	10.0	2.0	500	N	N	N	20	N	N	N	10
83DM114C	43 39 40	72 41 43	.50	.05	2.0	1.5	150	N	N	N	30	N	N	<20	N
83DM115C	43 39 8	72 41 44	.50	.05	20.0	2.0	200	N	N	N	70	N	N	N	20
83DM116C	43 37 51	72 43 12	2.00	.05	7.0	2.0	150	7	2,000	N	20	N	N	<20	70
83DM117C	43 37 48	72 43 13	7.00	.05	15.0	1.0	200	7	2,000	N	20	N	N	30	100
83DM118C	43 37 38	72 42 16	.50	.05	15.0	1.5	500	N	1,000	N	20	N	N	N	20
83HN100C	43 40 39	72 20 20	2.00	.50	5.0	>2.0	1,500	N	N	N	1,000	300	2	N	10
83HN101C	43 42 43	72 21 10	1.00	.20	5.0	>2.0	500	N	N	N	1,000	200	N	N	10
83HN102C	43 41 23	72 19 44	2.00	.20	5.0	>2.0	300	N	N	N	700	300	N	N	20
83HN103C	43 40 51	72 21 47	1.00	.20	2.0	>2.0	700	N	N	N	500	300	N	N	10
83HN104C	43 39 6	72 21 43	1.00	.20	2.0	>2.0	200	N	N	N	300	300	N	N	10
83HN105C	43 38 12	72 21 2	1.00	.20	2.0	>2.0	200	N	N	N	300	300	N	N	10
83HN106C	43 37 43	72 16 17	1.00	.50	5.0	>2.0	1,000	N	N	N	200	300	N	N	10
83HN107C	43 38 45	72 16 48	2.00	.20	5.0	>2.0	700	N	N	N	500	500	N	N	10
83HN108C	43 43 12	72 15 59	1.00	.50	5.0	>2.0	700	N	N	N	200	300	N	N	10
83HN109C	43 44 45	72 16 17	1.00	.20	2.0	>2.0	700	N	N	N	200	300	N	N	10
83HN110C	43 44 7	72 19 50	2.00	.20	5.0	>2.0	500	N	N	N	700	300	N	N	10
83HN111C	43 44 5	72 18 58	2.00	.20	5.0	>2.0	700	N	N	N	700	200	N	N	N
83HN112C	43 44 37	72 19 24	2.00	.20	5.0	>2.0	500	N	N	N	700	200	N	N	N
83HN113C	43 43 4	72 19 48	2.00	.20	5.0	>2.0	500	N	N	N	700	200	N	30	N
83HR200C	43 30 13	72 25 15	.20	.05	5.0	>2.0	150	N	N	N	100	N	N	N	N
83HR201C	43 30 9	72 28 48	.15	.05	2.0	>2.0	150	N	N	N	150	N	N	N	N
83HR202C	43 32 19	72 29 6	.15	.05	2.0	>2.0	150	N	N	N	150	N	N	N	N
83HR203C	43 32 10	72 28 24	.20	.05	2.0	>2.0	100	N	N	N	150	N	N	N	N
83HR204C	43 31 42	72 27 26	.30	.05	2.0	>2.0	100	N	N	N	100	N	N	N	N
83HR205C	43 32 37	72 27 13	.20	.05	2.0	>2.0	100	N	N	N	50	N	N	N	N
83HR206C	43 33 26	72 24 46	.20	.10	2.0	>2.0	100	N	N	N	70	N	N	N	N
83HR207C	43 33 24	72 25 36	.20	.10	2.0	>2.0	200	N	N	N	70	N	N	N	N
83HR209C	43 35 57	72 27 11	.20	.10	2.0	>2.0	200	N	N	N	50	N	N	N	N
83HR210C	43 36 28	72 29 6	.20	.10	1.0	>2.0	100	N	N	N	100	N	N	N	N
83HR211C	43 37 27	72 28 47	.20	.10	2.0	>2.0	100	N	N	N	100	N	N	N	N
83HR212C	43 36 21	72 24 28	.20	.10	2.0	>2.0	200	N	N	N	70	N	N	N	N
83HR213C	43 35 45	72 24 26	.20	.10	2.0	>2.0	200	3	N	100	100	N	N	N	N
83HR214C	43 33 15	72 26 22	.20	.10	5.0	>2.0	100	N	N	N	70	N	N	N	N
83LM100C	43 11 48	72 4 48	.50	.10	2.0	2.0	300	N	N	N	700	500	2	N	N
83LM101C	43 14 11	72 0 43	.50	.10	2.0	2.0	300	N	N	N	500	500	5	N	N
83LM102C	43 12 6	72 1 54	.50	.10	2.0	2.0	300	N	N	N	200	500	5	N	N
83LM103C	43 8 40	72 5 36	.70	.10	5.0	>2.0	500	N	N	N	500	300	20	N	N
83LM104C	43 9 4	72 7 36	.50	.20	.2	>2.0	200	N	N	N	500	500	2	N	10
83LM105C	43 2 48	72 0 12	1.00	.10	2.0	1.0	300	N	N	N	500	500	2	N	10
83LM106C	43 3 58	72 1 56	.50	.10	10.0	2.0	700	N	N	N	200	500	100	N	10
83LM107C	43 5 38	72 6 12	2.00	.20	2.0	>2.0	300	N	N	N	200	300	100	N	15
83LM108C	43 0 59	72 4 55	5.00	.20	1.0	>2.0	500	N	N	N	700	500	200	N	20
83LM109C	43 0 30	72 11 44	1.00	.20	1.0	>2.0	300	N	N	N	1,000	500	50	N	10

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83DM112C	50	50	N	N	N	N	150	N	10	200	N	50	N	70	N
83DM113C	100	10	N	N	N	N	<20	N	10	N	500	50	N	200	N
83DM114C	50	<10	N	N	N	N	20	N	15	N	N	50	N	70	N
83DM115C	70	<10	N	N	N	N	20	N	10	N	700	20	N	200	N
83DM116C	20	20	N	N	N	N	700	N	20	N	500	20	N	200	N
83DM117C	50	20	N	N	N	20	700	N	20	N	500	20	150	200	N
83DM118C	50	<10	N	N	N	N	20	N	15	N	700	20	N	200	N
83HN100C	300	50	50	N	500	10	20	N	10	N	700	500	N	100	N
83HN101C	200	70	50	N	500	N	<20	N	10	N	500	500	N	50	N
83HN102C	300	70	50	N	300	10	<20	N	10	20	500	500	N	100	N
83HN103C	150	70	N	N	500	10	30	N	10	50	200	700	N	50	N
83HN104C	300	70	50	N	300	10	30	N	10	N	200	300	N	50	5,000
83HN105C	200	70	N	N	300	10	N	N	10	N	200	500	N	100	N
83HN106C	150	100	150	N	100	N	500	N	10	200	700	500	N	300	N
83HN107C	300	50	150	N	200	N	200	N	10	N	500	500	100	200	N
83HN108C	300	30	50	N	150	N	700	N	10	N	700	500	N	100	N
83HN109C	300	150	50	N	200	10	700	300	10	>2,000	700	500	N	70	N
83HN110C	300	70	50	N	500	10	N	N	10	50	700	700	N	70	N
83HN111C	300	100	N	N	300	10	700	N	10	300	700	700	N	150	N
83HN112C	300	200	N	N	300	10	N	N	10	N	300	700	N	100	N
83HN113C	200	50	N	N	300	10	N	N	10	N	700	500	N	150	N
83HR200C	200	20	N	N	150	N	200	N	N	200	200	100	N	70	N
83HR201C	150	10	N	N	150	N	N	N	N	N	N	100	N	20	N
83HR202C	150	10	N	N	150	N	20	N	N	20	N	100	N	20	N
83HR203C	150	10	N	N	150	N	N	N	N	N	N	100	N	20	N
83HR204C	300	15	N	N	200	N	70	N	N	20	N	150	N	30	N
83HR205C	150	15	N	N	150	N	N	N	N	N	N	100	N	20	N
83HR206C	300	100	N	N	150	N	50	N	N	N	N	150	N	50	N
83HR207C	200	15	N	N	150	N	N	N	N	N	N	150	N	30	N
83HR209C	200	15	N	N	150	N	N	N	N	N	N	150	N	50	N
83HR210C	300	15	N	N	150	N	20	N	N	N	N	150	N	30	N
83HR211C	300	15	N	N	100	N	100	N	N	150	N	150	N	50	N
83HR212C	200	15	N	N	100	N	N	N	N	N	N	150	N	50	N
83HR213C	300	15	N	N	100	N	N	N	N	N	N	150	N	50	N
83HR214C	200	15	N	N	150	N	20	N	N	N	N	150	N	50	N
83LM100C	50	<10	700	N	50	N	<20	N	10	N	200	150	N	200	N
83LM101C	50	10	200	N	<50	N	<20	N	10	N	200	150	N	150	N
83LM102C	70	10	700	N	<50	N	20	N	10	N	200	150	N	150	N
83LM103C	100	20	1,000	N	<50	N	20	N	50	N	200	200	N	500	N
83LM104C	150	30	500	N	100	N	<20	N	10	N	N	200	N	150	N
83LM105C	N	<10	700	N	<50	N	<20	N	10	N	200	70	N	200	N
83LM106C	70	10	1,000	N	<50	N	20	N	30	100	200	200	N	500	N
83LM107C	150	50	500	N	150	N	N	N	10	150	200	500	N	150	N
83LM108C	150	150	700	N	150	N	200	N	10	50	N	500	N	200	N
83LM109C	100	10	700	N	70	N	<20	N	10	N	N	200	N	150	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83LM110C	43 1 12	72 12 1	2.00	.20	1.5	>2.0	700	N	N	N	150	300	100	N	20
83LM111C	43 2 44	72 9 50	1.00	.20	1.5	2.0	700	N	N	N	150	500	10	N	10
83LM112C	43 2 54	72 14 46	1.00	.20	2.0	2.0	700	N	N	N	200	500	20	N	10
83LM113C	43 11 50	72 8 22	1.00	.20	5.0	>2.0	700	N	N	N	500	500	10	N	10
83LM114C	43 12 38	72 11 34	1.00	.15	20.0	>2.0	700	N	N	N	300	300	2	N	10
83LM115C	43 4 58	72 12 23	2.00	.50	2.0	2.0	300	N	N	N	150	300	50	N	10
83LM116C	43 6 7	72 11 3	2.00	.15	2.0	>2.0	500	N	N	N	300	300	200	N	15
83LM117C	43 7 33	72 14 12	.50	.10	2.0	>2.0	200	N	N	N	300	500	7	N	10
83LM118C	43 8 0	72 11 42	1.00	.20	5.0	>2.0	700	N	N	N	500	300	50	N	10
83LM119C	43 11 30	72 14 31	2.00	.15	2.0	>2.0	300	N	N	N	200	2,000	5	N	15
83LM120C	43 12 5	72 14 15	2.00	.20	20.0	>2.0	1,000	N	N	N	1,000	300	2	N	10
83LM121C	43 13 0	72 14 15	2.00	.70	7.0	>2.0	1,000	N	N	N	300	500	5	N	10
83LM122C	43 14 18	72 14 4	1.00	.20	10.0	>2.0	500	N	N	N	100	300	5	N	10
83MS100C	43 31 55	72 8 33	.50	.10	5.0	>2.0	700	N	N	N	200	100	N	N	N
83MS101C	43 33 30	72 12 54	2.00	.10	5.0	>2.0	700	N	N	N	200	150	2	N	20
83MS102C	43 42 6	72 11 6	2.00	.20	5.0	>2.0	500	N	N	N	200	150	N	N	15
83MS103C	43 42 36	72 12 48	1.00	.20	7.0	>2.0	500	N	N	N	200	150	N	N	N
83MS104C	43 42 42	72 12 12	.50	.15	5.0	>2.0	500	N	N	N	200	150	2	N	N
83MS105C	43 44 27	72 14 18	.50	.15	2.0	>2.0	150	N	N	N	200	150	5	N	N
83MS106C	43 44 56	72 12 45	2.00	.50	5.0	>2.0	500	N	N	N	500	150	N	N	N
83MS107C	43 44 12	72 6 26	1.00	.10	5.0	>2.0	200	N	N	N	200	150	2	N	N
83MS108C	43 42 8	72 5 6	.20	.10	7.0	>2.0	500	N	N	N	150	300	N	N	N
83MS109C	43 45 15	72 2 26	2.00	.20	5.0	>2.0	500	N	N	N	30	300	N	100	N
83MS110C	43 41 8	72 6 36	1.00	.15	7.0	>2.0	700	N	N	N	150	150	N	N	N
83MS111C	43 41 39	72 8 3	1.00	.20	5.0	>2.0	500	N	N	N	200	150	N	N	N
83MS112C	43 32 56	72 14 24	1.00	.15	2.0	>2.0	200	N	N	N	200	2,000	N	N	30
83MS113C	43 34 53	72 14 42	1.00	.10	2.0	>2.0	150	N	N	N	200	200	N	N	N
83MS114C	43 34 54	72 13 28	.50	.15	2.0	>2.0	200	N	N	N	100	500	N	N	N
83MS115C	43 37 25	72 14 12	1.00	.15	5.0	>2.0	700	N	N	N	200	150	N	N	N
83MS116C	43 38 28	72 12 58	7.00	.10	2.0	>2.0	200	N	2,000	N	200	150	N	N	70
83MS117C	43 39 45	72 13 9	2.00	.10	5.0	>2.0	200	N	N	N	200	150	N	N	N
83MS118C	43 39 0	72 10 12	.30	.07	1.0	>2.0	150	N	N	N	150	200	N	N	N
83MS119C	43 38 54	72 8 38	2.00	.10	5.0	>2.0	500	N	N	N	150	700	N	300	70
83MS120C	43 38 38	72 7 38	2.00	.20	5.0	>2.0	200	N	N	N	150	200	70	N	N
83MS121C	43 38 5	72 3 33	1.00	.10	10.0	>2.0	700	N	N	N	150	150	N	N	N
83MS122C	43 37 33	72 1 21	.50	.10	5.0	>2.0	500	1,500	N	>1,000	150	150	N	N	N
83MS123C	43 35 25	72 6 45	1.00	.10	2.0	>2.0	200	N	N	N	500	200	N	N	N
83MS124C	43 37 10	72 8 54	1.00	.20	2.0	>2.0	300	N	N	N	200	150	50	N	N
83MS125C	43 30 50	72 2 15	.20	.05	10.0	>2.0	500	N	N	N	100	200	N	20	N
83MS126C	43 30 14	72 3 18	.20	.05	10.0	>2.0	700	N	N	N	70	150	N	N	N
83MS127C	43 30 46	72 4 24	1.00	.20	10.0	>2.0	1,000	N	N	N	200	150	N	N	N
83MS128C	43 34 30	72 3 33	1.00	.10	5.0	>2.0	500	N	N	N	150	200	5	N	N
83MS129C	43 32 20	72 3 12	.20	.05	20.0	>2.0	700	N	N	N	70	150	N	N	N
83NH200C	43 13 17	72 16 34	.20	.05	.5	>2.0	100	N	N	N	70	N	N	N	N
83NH201C	43 34 2	72 16 13	.20	.05	2.0	>2.0	200	N	N	N	70	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83NH202C	43 34 23	72 17 45	.20	.05	.5	>2.0	200	N	N	N	70	N	N	N	N
83NH203C	43 35 56	72 18 14	.20	.05	2.0	>2.0	200	N	N	N	70	N	N	N	N
83NH204C	43 31 11	72 19 34	.20	.07	5.0	>2.0	100	N	N	N	100	200	N	N	N
83NH205C	43 32 7	72 18 34	.10	.05	1.0	>2.0	70	N	N	N	100	N	N	N	N
83NH206C	43 31 9	72 16 29	.20	.05	.5	>2.0	150	N	N	N	100	N	N	N	N
83NH207C	43 30 9	72 21 42	.20	.05	1.0	>2.0	150	N	N	N	100	N	N	N	N
83NH208C	43 34 25	72 21 2	.30	.05	1.0	>2.0	150	N	N	N	150	N	N	N	N
83NH209C	43 37 8	72 21 22	.20	.05	.5	>2.0	70	N	N	N	100	N	N	N	N
83QU200C	43 38 10	72 28 12	.30	.05	2.0	>2.0	100	N	N	N	100	N	N	N	N
83QU201C	43 39 35	72 28 18	.30	.10	2.0	>2.0	100	N	N	N	100	N	N	N	N
83QU202C	43 40 39	72 23 6	.30	.10	2.0	>2.0	100	N	N	N	100	N	N	N	N
83QU203C	43 40 39	72 23 7	.20	.10	1.0	>2.0	100	N	N	N	150	N	N	N	N
83QU204C	43 43 0	72 24 10	.30	.10	1.0	>2.0	150	N	N	N	150	N	N	N	N
83QU205C	43 43 41	72 24 36	.30	.20	1.0	>2.0	150	N	N	N	150	N	N	N	N
83QU206C	43 43 1	72 26 10	.20	.10	.5	>2.0	150	N	N	N	200	N	N	N	N
83QU207C	43 43 25	72 27 11	.20	.10	1.5	>2.0	150	N	N	N	150	N	N	N	N
83QU208C	43 43 32	72 27 25	.20	.20	1.0	>2.0	150	N	N	N	200	N	N	N	N
83QU209C	43 43 32	72 29 21	.10	.10	5.0	>2.0	150	N	N	N	200	N	N	N	N
83QU210C	43 43 6	72 28 47	.10	.05	1.5	>2.0	100	N	N	N	150	N	N	N	N
83QU211C	43 37 52	72 23 30	.10	.05	2.0	>2.0	100	N	N	N	100	N	N	N	N
83QU213C	43 40 1	72 23 7	.15	.10	.2	>2.0	100	N	N	N	100	N	N	N	N
83QU214C	43 41 24	72 26 32	.20	.10	1.0	>2.0	150	N	N	N	150	N	N	N	N
83QU215C	43 44 7	72 25 55	.20	.10	1.0	>2.0	200	N	N	N	150	N	N	N	N
83QU216C	43 41 30	72 24 25	.20	.05	.5	>2.0	70	N	N	N	100	N	N	N	N
83QU217C	43 40 54	72 24 6	.20	.05	2.0	>2.0	100	N	N	N	70	N	N	N	N
83RA200C	43 46 48	72 31 34	.20	.05	2.0	1.5	70	N	N	N	50	N	N	N	N
83RA201C	43 45 30	72 32 18	.20	.10	2.0	2.0	70	N	N	N	50	N	N	N	N
83RA202C	43 48 21	72 33 25	.20	.05	2.0	2.0	50	N	N	N	20	N	N	N	N
83RA203C	43 47 58	72 35 8	.20	.05	2.0	2.0	100	N	N	N	50	N	N	N	N
83RA204C	43 45 19	72 33 50	.50	.05	2.0	1.5	100	N	N	N	50	N	N	N	N
83RA205C	43 48 44	72 38 8	.20	.05	2.0	1.5	70	N	N	N	20	N	N	N	N
83RA206C	43 46 12	72 42 18	.20	.05	10.0	2.0	150	N	N	N	50	N	N	N	N
83RA207C	43 48 0	72 41 8	.30	.07	20.0	2.0	300	N	N	N	20	200	N	300	N
83RA208C	43 49 17	72 41 35	.20	.05	10.0	2.0	200	N	N	N	20	N	N	N	N
83RA209C	43 49 34	72 43 25	5.00	.05	20.0	>2.0	300	N	1,000	N	30	200	N	N	30
83RA210C	43 51 3	72 42 21	.50	.05	20.0	2.0	300	N	N	N	20	200	N	N	N
83RA211C	43 49 40	72 38 59	.20	<.05	7.0	2.0	150	N	N	N	20	N	N	N	N
83RA212C	43 47 12	72 39 0	.30	<.05	5.0	2.0	200	5	N	200	20	N	N	N	N
83RA213C	43 52 30	72 42 24	.50	.05	15.0	2.0	200	30	N	150	20	N	N	N	30
83RA214C	43 52 37	72 42 22	.20	.05	10.0	1.5	200	N	N	N	20	N	N	N	N
83RA215C	43 52 58	72 42 44	.30	.05	10.0	1.5	200	N	N	N	20	N	N	N	10
83RA216C	43 54 54	72 39 48	.20	.05	5.0	1.5	150	N	N	N	20	N	N	N	10
83RA217C	43 54 44	72 40 17	.30	.05	7.0	1.5	200	N	N	N	20	N	N	N	N
83RA218C	43 55 26	72 43 20	.30	.05	10.0	1.0	300	N	N	N	20	N	N	N	N
83RA219C	43 56 53	72 44 42	.30	.05	20.0	1.5	300	N	N	N	20	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83LM110C	200	20	50	N	100	N	N	N	10	N	N	300	N	150	N
83LM111C	70	10	50	N	50	10	20	N	10	N	200	200	N	100	N
83LM112C	150	20	50	N	50	10	100	N	10	1,500	200	300	N	150	N
83LM113C	150	70	50	N	100	N	20	N	10	N	200	200	1,000	200	N
83LM114C	50	10	700	N	50	N	20	N	10	N	200	150	N	700	N
83LM115C	150	10	50	N	70	10	20	N	10	50	N	200	N	100	N
83LM116C	300	50	70	N	50	N	20	N	10	N	N	500	N	150	N
83LM117C	100	20	50	N	200	N	20	N	10	N	N	200	N	150	N
83LM118C	100	10	50	N	100	N	30	N	10	300	N	150	N	500	N
83LM119C	150	1,500	100	N	150	N	500	N	10	700	N	200	N	200	N
83LM120C	100	20	500	N	70	N	30	N	10	300	N	150	200	700	N
83LM121C	70	50	50	N	150	10	20	N	10	N	200	150	150	500	N
83LM122C	70	50	50	N	70	N	500	N	20	N	200	150	N	700	N
83MS100C	200	50	N	N	100	N	N	N	10	N	200	200	150	300	N
83MS101C	150	50	N	N	150	N	N	N	10	N	200	200	100	150	N
83MS102C	200	70	50	N	300	N	200	N	10	N	500	200	100	150	N
83MS103C	150	20	150	N	50	N	N	N	10	N	700	200	N	300	N
83MS104C	150	20	N	N	100	N	<20	N	10	N	500	200	N	150	N
83MS105C	150	20	N	N	150	N	150	N	10	30	200	200	N	50	N
83MS106C	300	200	50	N	100	N	20	N	10	50	700	300	N	150	N
83MS107C	150	20	N	N	50	N	N	N	10	N	700	200	150	100	N
83MS108C	70	20	70	N	70	N	N	N	10	N	500	200	N	300	N
83MS109C	70	30	N	N	100	N	N	N	10	700	200	200	200	500	N
83MS110C	100	20	N	N	50	N	70	N	10	N	700	200	150	200	N
83MS111C	300	30	N	N	100	N	N	N	10	N	500	200	150	150	N
83MS112C	200	50	70	N	150	N	N	N	10	N	200	200	2,000	150	N
83MS113C	300	50	70	N	70	N	N	N	50	N	200	200	100	200	N
83MS114C	150	15	70	N	70	N	N	N	10	300	200	200	N	100	N
83MS115C	200	20	50	N	150	N	20	N	10	N	200	200	150	200	N
83MS116C	200	100	N	N	100	N	20	N	10	150	200	200	N	150	N
83MS117C	150	20	100	N	70	N	<20	N	10	N	200	200	N	200	N
83MS118C	150	50	N	N	100	N	30	N	10	N	200	200	100	150	N
83MS119C	200	3,000	N	N	70	N	30,000	1,500	50	700	200	200	150	200	N
83MS120C	150	70	N	N	70	N	20	N	10	50	700	200	N	150	N
83MS121C	150	20	N	N	70	N	200	N	10	100	500	200	N	500	N
83MS122C	100	150	70	N	70	N	N	N	10	>2,000	200	200	1,500	500	N
83MS123C	70	30	N	N	200	N	150	N	10	100	200	150	200	200	N
83MS124C	200	20	70	N	150	N	N	N	10	N	200	200	N	100	N
83MS125C	70	20	N	N	50	N	<20	N	10	500	200	150	200	500	N
83MS126C	100	20	N	N	<50	N	N	N	50	200	200	150	100	700	N
83MS127C	150	20	70	N	50	N	N	N	70	20	200	150	<100	700	N
83MS128C	150	30	70	N	200	N	70	N	10	100	200	200	150	300	N
83MS129C	100	20	70	N	50	N	N	N	10	200	200	150	100	700	N
83NH200C	200	10	N	N	150	N	N	N	10	20	N	100	300	50	N
83NH201C	200	10	N	N	100	N	N	N	10	N	N	100	<100	70	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83NH202C	300	15	N	N	150	N	N	N	10	N	N	150	150	70	N
83NH203C	200	10	N	N	150	N	N	N	10	N	N	100	200	50	N
83NH204C	300	20	N	N	100	N	1,500	N	N	N	200	150	150	70	N
83NH205C	200	10	N	N	100	N	N	N	10	50	N	150	N	70	N
83NH206C	300	15	N	N	150	N	N	N	10	70	N	150	<100	70	N
83NH207C	200	10	N	N	100	N	N	N	10	N	N	150	150	50	N
83NH208C	300	10	N	N	100	N	N	N	N	N	N	150	N	30	N
83NH209C	300	700	N	N	100	N	100	N	N	300	N	100	N	50	N
83QU200C	200	15	N	N	200	N	N	N	N	N	N	150	N	50	N
83QU201C	300	15	N	N	150	N	N	N	N	N	N	150	N	70	N
83QU202C	300	15	N	N	150	N	500	N	N	N	N	150	N	70	N
83QU203C	300	15	N	N	200	N	N	N	N	N	N	150	N	50	N
83QU204C	200	15	N	N	150	N	N	N	N	N	N	150	N	50	N
83QU205C	300	500	N	N	150	N	N	N	N	N	N	150	N	50	N
83QU206C	300	15	N	N	150	N	N	N	N	N	N	150	N	20	N
83QU207C	300	15	N	N	150	N	50	N	N	N	N	150	N	50	N
83QU208C	200	15	N	N	150	N	N	N	N	N	N	150	N	30	N
83QU209C	200	10	N	N	150	N	N	N	N	N	N	100	N	50	N
83QU210C	200	15	N	N	150	N	200	N	N	20	N	100	N	50	N
83QU211C	200	20	N	N	100	N	200	N	N	70	N	100	N	50	N
83QU213C	150	15	N	N	150	N	N	N	N	N	N	100	N	50	N
83QU214C	300	15	N	N	200	N	N	N	N	N	N	150	N	30	N
83QU215C	300	15	N	N	150	N	100	N	N	30	N	150	N	30	N
83QU216C	200	10	N	N	150	N	N	N	N	N	N	100	N	20	N
83QU217C	500	10	N	N	70	N	N	N	N	N	N	100	N	70	N
83RA200C	70	200	N	N	100	N	20	N	<10	300	N	70	N	50	N
83RA201C	100	10	N	N	150	N	50	N	<10	20	N	100	N	30	N
83RA202C	50	<10	N	N	N	N	N	N	10	N	N	20	N	50	N
83RA203C	20	<10	N	N	50	N	N	N	15	N	N	50	N	50	N
83RA204C	20	<10	N	N	N	N	N	N	15	N	N	50	N	50	N
83RA205C	20	<10	N	N	N	N	N	N	15	N	N	50	N	50	N
83RA206C	70	<10	N	N	N	N	N	N	20	N	200	50	N	100	N
83RA207C	100	15	N	N	N	N	20	N	10	N	500	50	N	200	N
83RA208C	50	<10	N	N	50	N	150	N	20	N	200	50	N	50	N
83RA209C	100	20	N	N	70	N	20	N	10	N	500	70	N	200	N
83RA210C	150	<10	N	N	N	N	20	N	N	N	500	50	N	150	N
83RA211C	50	15	N	N	N	N	200	N	30	1,000	200	70	N	100	N
83RA212C	70	10	N	N	50	N	N	N	30	N	N	70	N	100	N
83RA213C	70	15	N	N	N	N	20	N	10	N	500	70	500	150	N
83RA214C	50	150	N	N	N	N	50	N	10	N	200	50	150	100	N
83RA215C	20	10	N	N	N	N	N	N	10	N	300	50	N	150	N
83RA216C	50	<10	N	N	N	N	N	N	20	N	N	50	N	100	N
83RA217C	20	10	N	N	N	N	20	N	20	70	200	20	N	70	N
83RA218C	N	<10	N	N	N	N	20	N	15	N	200	20	500	100	N
83RA219C	50	20	N	N	50	N	20	N	15	N	500	50	N	150	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83RA220C	43 56 1	72 41 1	.50	.05	20.0	2.0	300	N	N	N	20	N	N	N	30
83RA221C	43 57 12	72 42 30	.20	.10	7.0	1.0	200	N	N	N	20	N	N	N	N
83RA222C	43 59 28	72 44 43	.30	.10	7.0	1.0	200	N	N	N	20	N	N	N	N
83RA223C	43 57 55	72 43 30	1.00	.50	20.0	.7	500	N	N	N	20	50	N	N	30
83RA224C	43 58 11	72 40 10	.20	.05	10.0	>2.0	200	N	N	N	150	50	N	N	N
83RA225C	43 58 47	72 39 55	.30	.05	5.0	>2.0	150	N	N	N	150	70	N	N	N
83RA226C	43 58 5	72 36 56	.30	.10	5.0	>2.0	150	N	N	N	150	N	N	N	30
83RA227C	43 58 36	72 34 39	.70	.10	5.0	>2.0	150	N	N	N	70	100	N	N	30
83RA228C	43 57 31	72 34 11	.20	.10	5.0	>2.0	150	N	N	N	70	N	N	N	N
83RA229C	43 58 54	72 31 42	.20	.05	2.0	1.5	150	N	N	N	20	N	N	N	N
83RA230C	43 56 20	72 38 2	.30	.05	10.0	>2.0	150	N	N	N	50	N	N	N	N
83RA231C	43 56 2	72 35 18	.20	.07	5.0	>2.0	150	N	N	N	70	N	N	N	N
83RA232C	43 56 36	72 32 34	.20	.05	5.0	>2.0	100	N	N	N	50	N	N	N	N
83RA233C	43 54 5	72 30 39	.20	.07	2.0	2.0	100	N	N	N	50	N	N	N	N
83RA234C	43 52 49	72 30 52	.20	.05	2.0	1.5	100	N	N	N	N	N	N	N	N
83RA235C	43 51 41	72 32 36	.20	.05	1.0	1.5	70	N	N	N	N	N	N	N	N
83RA236C	43 52 10	72 35 47	.30	.05	5.0	1.5	150	N	N	N	N	N	N	N	N
83RA237C	43 54 0	72 36 27	.30	.05	5.0	1.5	150	N	N	N	N	N	N	N	N
83RA238C	43 49 24	72 32 59	.20	.05	5.0	1.5	150	N	N	N	N	N	N	N	N
83RA239C	43 50 20	72 34 5	.20	.05	2.0	1.5	100	N	N	N	N	N	N	N	N
83RA240C	43 51 45	72 34 17	.20	.05	2.0	1.5	100	N	N	N	N	N	N	N	N
83RA241C	43 55 8	72 38 24	.30	.05	10.0	2.0	150	N	N	N	N	N	N	N	N
83RA242C	43 45 53	72 38 50	.20	.07	5.0	1.5	150	300	N	1,000	1,000	5,000	N	N	N
83RC100C	43 45 3	72 49 38	1.00	.20	5.0	>2.0	100	10	N	N	<20	N	N	30	100
83RC101C	43 46 36	72 51 0	.20	.05	5.0	2.0	100	N	N	N	20	N	N	N	N
83RC102C	43 46 37	72 51 22	.50	.05	7.0	2.0	100	N	N	N	100	N	N	N	N
83RC103C	43 47 10	72 48 15	2.00	.05	10.0	2.0	200	N	N	N	20	N	N	N	70
83RC104C	43 47 40	72 48 17	1.00	.10	10.0	2.0	200	N	N	N	20	N	N	N	20
83RC105C	43 46 18	72 45 46	.20	.10	10.0	2.0	200	N	N	N	20	N	N	N	N
83RC106C	43 47 19	72 44 34	.50	.10	10.0	2.0	200	N	N	N	50	N	N	N	N
83RC107C	43 48 45	72 47 1	.50	.10	15.0	2.0	200	N	N	N	20	N	N	N	N
83RC108C	43 49 50	72 46 18	2.00	.10	10.0	2.0	200	N	N	N	20	N	N	N	70
83RC109C	43 49 50	72 48 2	2.00	.10	20.0	>2.0	200	N	N	N	20	N	N	N	300
83RC110C	43 51 12	72 47 47	1.00	.10	10.0	>2.0	200	N	N	N	30	N	N	N	150
83RC111C	43 51 52	72 48 20	.20	.10	10.0	2.0	200	N	N	N	20	N	N	N	N
83RC112C	43 51 12	72 50 23	.50	.10	10.0	2.0	200	N	N	N	20	N	N	N	N
83RC113C	43 50 34	72 51 12	.50	.05	10.0	2.0	200	N	N	N	20	N	N	N	N
83RC114C	43 50 6	72 51 53	.50	.10	10.0	2.0	200	N	N	N	20	N	N	N	N
83RC115C	43 50 6	72 51 55	.50	.05	10.0	2.0	200	N	N	N	20	N	N	N	20
83S0100C	43 23 18	72 13 18	.50	.20	2.0	>2.0	700	N	N	N	100	500	N	N	N
83S0101C	43 23 30	72 12 52	.70	.50	5.0	>2.0	700	N	N	N	200	300	N	700	N
83S0102C	43 21 52	72 13 52	.50	.20	1.5	>2.0	500	N	N	N	100	200	N	N	N
83S0103C	43 21 10	72 14 50	1.00	.50	2.0	>2.0	500	N	N	N	200	150	N	N	N
83S0104C	43 21 9	72 14 50	.70	.20	5.0	>2.0	500	N	N	N	150	300	2	N	N
83S0105C	43 20 18	72 10 26	.70	.20	10.0	>2.0	700	N	N	N	70	150	2	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83RA220C	50	<10	N	N	N	N	200	N	20	N	700	50	N	150	N
83RA221C	20	<10	50	N	N	N	20	N	10	N	200	20	N	50	N
83RA222C	20	200	50	N	N	N	20	N	10	20	200	20	200	50	N
83RA223C	50	15	50	N	N	N	20	N	20	N	300	20	100	70	N
83RA224C	100	10	N	N	N	N	200	N	20	N	700	70	N	150	N
83RA225C	150	50	N	N	70	N	15,000	200	15	300	200	70	N	70	N
83RA226C	150	10	N	N	70	N	200	N	20	100	N	70	N	150	N
83RA227C	100	10	N	N	70	N	<20	N	20	N	200	70	N	70	N
83RA228C	100	10	N	N	70	N	20	N	20	N	200	50	N	70	N
83RA229C	50	<10	50	N	N	N	50	N	10	N	200	20	N	30	N
83RA230C	70	10	50	N	N	N	20	N	20	N	300	50	N	100	N
83RA231C	70	10	50	N	70	N	500	N	20	20	200	50	N	70	N
83RA232C	70	10	50	N	70	N	150	N	20	50	200	50	N	70	N
83RA233C	70	<10	50	N	70	N	20	N	15	N	200	50	N	30	N
83RA234C	70	10	50	N	70	N	N	N	10	N	N	70	N	50	N
83RA235C	50	<10	50	N	N	N	50	N	15	N	N	20	N	50	N
83RA236C	50	<10	50	N	N	N	20	N	20	N	200	20	N	70	N
83RA237C	50	<10	50	N	N	N	N	N	20	N	200	50	N	150	N
83RA238C	50	30	50	N	N	N	30	N	20	20	N	20	N	100	N
83RA239C	70	10	50	N	70	N	20	N	20	N	N	50	N	70	N
83RA240C	50	<10	50	N	N	N	100	N	15	150	N	20	N	70	N
83RA241C	70	10	50	N	N	N	1,000	N	20	N	200	50	N	150	N
83RA242C	50	<10	50	N	N	N	N	N	10	N	N	20	N	70	N
83RC100C	150	15	N	N	70	N	1,000	N	30	N	N	100	N	200	N
83RC101C	50	10	N	N	N	N	100	N	10	N	200	20	N	200	N
83RC102C	70	10	N	N	N	N	100	N	20	200	200	20	N	200	N
83RC103C	70	15	N	N	N	N	20	N	10	N	500	50	N	200	N
83RC104C	100	10	N	N	N	N	20	N	10	N	500	70	100	200	N
83RC105C	70	10	N	N	N	N	20	N	20	N	500	50	N	200	N
83RC106C	100	10	N	N	N	N	50	N	10	N	500	70	N	150	N
83RC107C	70	10	N	N	N	N	20	N	20	N	700	50	N	200	N
83RC108C	50	30	N	N	N	N	50	N	10	150	500	50	N	200	N
83RC109C	100	10	N	N	50	N	N	N	20	N	500	50	N	700	N
83RC110C	100	20	N	N	50	N	200	N	20	200	500	50	N	200	N
83RC111C	100	10	N	N	N	N	50	N	20	N	700	50	N	200	N
83RC112C	100	10	N	N	50	N	20	N	10	N	200	50	N	200	N
83RC113C	150	20	N	N	50	N	50	N	30	20	200	50	N	300	N
83RC114C	100	15	N	N	50	N	20	N	10	N	200	50	N	300	N
83RC115C	70	15	N	N	N	N	100	N	10	N	500	20	N	300	N
83S0100C	100	20	50	N	70	N	N	N	10	N	200	150	100	150	N
83S0101C	70	20	100	N	100	N	150	N	10	700	300	150	200	300	N
83S0102C	70	20	50	N	100	N	N	N	10	N	N	200	N	150	N
83S0103C	100	50	100	N	200	N	100	N	10	N	200	200	300	200	N
83S0104C	150	20	50	N	50	N	<20	N	10	N	200	200	N	300	N
83S0105C	150	20	150	N	70	N	20	N	10	N	200	150	N	700	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83s0106C	43 28 51	72 8 4	2.00	.50	5.0	>2.0	500	N	N	N	70	100	N	N	15
83s0107C	43 28 32	72 9 5	.50	.20	5.0	>2.0	200	N	N	N	150	150	N	N	N
83s0108C	43 24 59	72 8 22	.20	.10	5.0	1.0	300	N	N	N	20	500	N	N	N
83s0109C	43 24 56	72 11 38	.30	.15	10.0	>2.0	500	N	N	N	50	200	N	N	N
83s0110C	43 10 36	72 1 30	.50	.15	10.0	>2.0	500	N	N	N	70	200	2	N	N
83s0111C	43 18 34	72 1 45	1.00	.20	10.0	>2.0	1,000	N	N	N	70	150	15	N	N
83s0112C	43 20 24	72 4 9	1.00	.20	10.0	>2.0	1,000	N	N	N	70	300	2	N	N
83s0113C	43 20 27	72 7 10	1.00	.20	10.0	>2.0	700	N	N	N	200	150	N	N	N
83s0114C	43 18 42	72 6 22	.20	.10	10.0	>2.0	500	N	N	N	20	200	2	1,000	N
83s0115C	43 18 45	72 7 20	1.00	.50	10.0	>2.0	1,000	N	N	N	500	150	5	N	N
83s0116C	43 18 50	72 8 18	1.00	.20	10.0	>2.0	1,000	N	N	N	150	300	N	N	N
83s0117C	43 18 40	72 10 12	1.00	.20	10.0	>2.0	700	N	N	N	70	300	N	N	N
83s0118C	43 17 3	72 8 12	1.00	.50	20.0	>2.0	700	N	N	N	700	150	N	N	N
83s0119C	43 15 54	72 13 0	1.00	.50	20.0	>2.0	1,000	N	N	N	300	150	5	N	N
83s0120C	43 17 14	72 15 0	2.00	.50	2.0	>2.0	500	N	N	N	150	150	20	N	N
83s0121C	43 23 42	72 5 52	1.00	.50	10.0	>2.0	1,000	N	N	N	70	150	2	N	N
83s0122C	43 25 18	72 7 18	.30	.20	20.0	>2.0	1,000	N	N	N	20	300	N	N	N
83s0123C	43 27 2	72 3 12	.20	.10	5.0	>2.0	500	N	N	N	50	200	N	N	N
83s0124C	43 26 32	72 0 49	5.00	.10	7.0	>2.0	1,000	N	N	N	100	150	5	N	30
83s0125C	43 22 55	72 2 5	.20	.05	10.0	>2.0	1,500	N	N	N	100	150	2	N	N
83s0126C	43 22 6	72 2 4	.20	<.05	5.0	>2.0	1,500	N	N	N	50	300	2	N	N
83s0127C	43 18 24	72 11 50	.20	.05	10.0	>2.0	700	N	N	N	100	150	2	N	N
83s0128C	43 16 39	72 9 0	.20	.05	10.0	2.0	700	N	N	N	20	300	5	N	N
83s0129C	43 15 36	72 8 35	.50	.07	5.0	2.0	700	N	N	N	300	150	10	N	N
83SR100C	43 12 34	72 30 6	1.00	1.00	10.0	>2.0	200	N	N	N	100	N	N	N	N
83SR101C	43 11 25	72 30 18	.50	.20	5.0	>2.0	300	N	N	N	200	200	N	N	N
83SR102C	43 8 44	72 30 30	1.00	1.00	10.0	>2.0	500	N	N	N	200	200	10	N	30
83SR103C	43 8 30	72 31 55	1.00	1.00	5.0	>2.0	200	N	N	N	500	200	N	N	70
83SR104C	43 9 42	72 33 18	.50	.20	10.0	>2.0	200	N	N	N	100	100	N	N	N
83SR105C	43 9 54	72 33 30	.50	.50	10.0	>2.0	200	N	N	N	100	100	N	N	N
83SR106C	43 9 8	72 34 33	1.00	1.00	10.0	>2.0	200	N	N	N	150	100	N	150	N
83SR107C	43 10 57	72 35 16	1.50	2.00	20.0	>2.0	500	N	N	N	500	50	N	N	N
83SR108C	43 10 58	72 35 23	1.00	.20	20.0	>2.0	200	N	N	N	100	200	N	N	N
83SR109C	43 10 32	72 37 4	1.00	2.00	20.0	>2.0	200	N	N	N	200	N	N	N	N
83SR110C	43 9 47	72 39 0	1.00	1.00	10.0	>2.0	500	N	N	N	500	N	N	N	N
83SR111C	43 11 34	72 38 21	1.00	2.00	10.0	>2.0	300	N	N	N	200	N	N	N	N
83SR112C	43 8 30	72 37 46	1.00	2.00	10.0	>2.0	300	N	N	N	100	N	N	N	50
83SR113C	43 7 53	72 38 17	2.00	2.00	20.0	>2.0	1,000	N	N	N	200	N	N	N	100
83SR114C	43 7 22	72 38 39	.50	1.00	20.0	>2.0	300	N	N	N	200	N	N	N	50
83SR115C	43 9 5	72 34 57	.50	.50	10.0	>2.0	200	N	N	N	200	N	N	N	20
83SR116C	43 8 55	72 34 52	.50	1.00	15.0	>2.0	200	N	N	N	200	N	N	N	N
83SR117C	43 6 5	72 35 4	1.00	1.00	10.0	>2.0	200	N	N	N	100	N	N	N	N
83SR118C	43 5 35	72 35 17	2.00	.20	5.0	>2.0	150	N	N	N	20	N	N	200	N
83SR119C	43 3 58	72 35 16	1.00	2.00	10.0	>2.0	300	N	N	N	50	N	N	N	N
83SR120C	43 2 16	72 35 56	1.00	.50	20.0	>2.0	300	N	N	N	50	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83S0106C	150	30	N	N	200	N	<20	N	10	N	200	200	300	200	N
83S0107C	150	30	N	N	100	N	<20	N	10	N	200	200	N	500	N
83S0108C	50	<10	N	N	N	N	20	N	10	N	200	30	N	200	N
83S0109C	70	20	50	N	70	N	20	N	10	N	200	200	150	500	N
83S0110C	100	15	150	N	70	N	<20	N	10	N	200	200	N	500	N
83S0111C	150	20	150	N	70	N	<20	N	10	150	500	200	N	700	N
83S0112C	150	30	200	N	70	N	500	N	10	1,500	500	150	N	700	N
83S0113C	70	30	700	N	50	N	30	N	70	N	200	200	<100	1,000	N
83S0114C	50	10	100	N	50	N	30	N	20	200	200	150	300	500	N
83S0115C	70	20	100	N	70	N	20	N	70	200	200	150	150	1,000	N
83S0116C	70	20	150	N	100	N	20	N	20	N	200	300	N	700	N
83S0117C	70	15	50	N	100	N	<20	N	10	2,000	200	150	N	500	N
83S0118C	50	10	700	N	N	N	20	N	20	50	200	150	N	1,000	N
83S0119C	70	30	200	N	150	N	20	N	10	2,000	200	150	N	700	N
83S0120C	100	70	N	N	70	N	N	N	10	N	200	300	200	150	N
83S0121C	70	20	300	N	50	N	<20	N	20	N	200	200	N	1,000	N
83S0122C	70	10	100	N	<50	N	<20	N	10	70	200	100	500	700	N
83S0123C	200	20	70	N	70	N	N	N	70	50	N	100	N	500	N
83S0124C	200	20	50	N	50	N	N	N	10	100	200	150	700	700	N
83S0125C	70	10	150	N	N	N	N	N	30	30	200	150	N	1,500	N
83S0126C	50	70	150	N	100	N	100	N	10	1,000	200	150	N	500	N
83S0127C	70	20	50	N	70	N	30	N	10	150	N	150	100	700	N
83S0128C	50	10	50	N	N	N	N	N	10	N	N	70	N	700	N
83S0129C	150	10	N	N	N	N	N	N	10	N	N	200	N	500	N
83SR100C	200	10	50	N	70	N	70	N	15	20	1,000	150	N	100	N
83SR101C	150	100	N	N	50	N	70	N	20	<20	200	70	N	100	N
83SR102C	200	50	N	N	50	N	1,000	N	20	150	200	70	N	150	N
83SR103C	700	50	N	N	70	N	150	N	20	20	N	150	N	150	N
83SR104C	300	15	N	N	N	N	700	N	20	20	N	150	N	200	N
83SR105C	300	15	N	N	50	N	100	N	20	30	N	100	N	300	N
83SR106C	200	15	50	N	50	N	70	N	20	20	N	100	N	500	N
83SR107C	200	15	50	N	N	N	100	N	20	20	700	100	N	300	N
83SR108C	300	15	N	N	N	N	50	N	20	<20	N	100	N	300	N
83SR109C	300	20	N	N	70	N	700	N	20	500	N	100	N	200	N
83SR110C	150	15	100	N	50	N	100	N	20	150	N	70	N	300	N
83SR111C	300	15	100	N	50	N	100	N	20	50	N	100	N	300	N
83SR112C	150	15	50	N	50	N	50	N	20	20	N	100	N	200	N
83SR113C	300	15	50	N	50	N	50	N	50	150	N	100	N	500	N
83SR114C	150	15	50	N	50	N	50	N	20	20	N	70	N	200	N
83SR115C	150	15	50	N	<50	N	150	N	70	<20	N	100	N	500	N
83SR116C	300	15	70	N	<50	N	150	N	50	20	N	70	N	500	N
83SR117C	200	15	50	N	N	N	70	N	50	N	N	70	N	500	N
83SR118C	150	15	50	N	N	N	150	N	50	150	N	70	N	500	N
83SR119C	200	15	50	N	N	N	70	N	20	20	N	70	N	500	N
83SR120C	150	15	100	N	N	N	70	N	30	N	N	70	N	500	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83SR121C	43 2 0	72 36 30	1.00	1.00	20.0	>2.0	300	N	N	N	50	N	N	N	N
83SR122C	43 1 23	72 36 17	.20	<.05	2.0	>2.0	100	N	N	N	20	N	N	N	N
83SR123C	43 0 57	72 37 18	1.00	2.00	10.0	>2.0	300	N	N	N	20	N	N	N	N
83SR124C	43 3 57	72 2 28	.50	.10	2.0	>2.0	150	N	N	N	50	N	N	N	N
83SR125C	43 6 6	72 32 14	.50	.50	5.0	2.0	150	N	N	N	100	N	N	N	N
83SR126C	43 3 24	72 32 0	.20	.20	1.0	>2.0	100	N	N	N	20	N	N	N	N
83SR127C	43 5 15	72 30 26	.50	.50	2.0	2.0	100	N	N	N	50	N	N	N	N
83SR128C	43 2 38	72 30 58	50.00	.10	<.1	>2.0	1,000	N	N	N	50	N	N	N	70
83SR129C	43 0 38	72 31 49	1.00	.50	5.0	>2.0	150	N	N	N	100	N	N	N	N
83SR130C	43 0 32	72 32 30	.50	.20	2.0	>2.0	200	N	N	N	100	500	N	N	N
83SR131C	43 1 58	72 32 54	.50	.10	5.0	>2.0	200	N	N	N	50	N	N	N	N
83SR132C	43 0 18	72 32 48	.50	.20	5.0	>2.0	100	N	N	N	50	200	N	N	N
83SR133C	43 0 9	72 33 45	.20	.10	2.0	>2.0	100	N	N	N	20	N	N	N	N
83SR134C	43 0 29	72 43 5	1.00	.20	10.0	2.0	150	N	N	N	20	N	N	N	N
83SR135C	43 0 18	72 43 14	7.00	.50	10.0	2.0	500	N	N	N	20	N	N	N	N
83SR136C	43 5 39	72 44 2	.50	1.00	20.0	2.0	500	N	N	N	50	N	N	N	N
83SR137C	43 5 39	72 43 57	1.50	1.00	20.0	2.0	500	N	N	N	20	N	N	N	30
83SR138C	43 5 3	72 42 38	1.00	.50	20.0	2.0	500	N	N	N	50	N	N	N	30
83SR139C	43 4 42	72 42 18	1.00	1.00	20.0	2.0	200	N	N	N	50	N	N	N	10
83SR140C	43 2 54	72 40 48	1.00	1.00	50.0	1.5	500	N	N	N	20	N	N	N	N
83SR141C	43 5 6	72 39 46	2.00	1.00	5.0	2.0	200	N	N	N	50	N	N	N	10
83SR142C	43 4 50	72 38 28	.50	2.00	20.0	2.0	500	N	N	N	20	N	N	N	N
83SR143C	43 4 58	72 38 2	1.00	.20	20.0	2.0	500	N	N	N	<20	N	N	N	N
83SR144C	43 1 56	72 39 30	.50	1.00	10.0	2.0	200	N	N	N	20	N	N	N	N
83SR145C	43 0 57	72 39 12	.50	.20	20.0	2.0	200	N	N	N	20	N	N	N	N
83SR146C	43 2 24	72 41 36	1.00	.50	20.0	2.0	200	10	N	N	20	1,500	N	150	30
83SR147C	43 2 52	72 43 4	1.00	.50	10.0	2.0	200	N	N	N	50	N	N	N	10
83SR148C	43 2 48	72 43 0	.50	1.00	20.0	2.0	200	N	N	N	50	N	N	N	N
83SR149C	43 2 50	72 42 38	1.00	.20	2.0	.5	150	N	N	N	50	N	N	N	N
83SR200C	43 12 21	72 32 18	.10	.10	5.0	2.0	150	N	N	N	70	N	N	N	N
83SR201C	43 13 2	72 33 6	.20	.20	5.0	2.0	150	N	N	N	20	N	N	N	N
83SR202C	43 14 38	72 33 29	1.00	1.00	20.0	2.0	200	N	N	N	20	N	N	N	N
83SR203C	43 14 2	72 32 30	.20	.20	10.0	2.0	200	N	N	N	200	N	N	N	N
83SR204C	43 13 36	72 34 24	.20	.20	10.0	2.0	200	N	N	N	50	N	N	N	N
83SR205C	43 13 46	72 34 42	.20	.20	20.0	2.0	200	N	N	N	50	N	N	N	N
83SR206C	43 13 24	72 36 7	.20	.05	10.0	2.0	150	N	N	N	20	N	N	N	N
83SR207C	43 14 42	72 38 12	.15	.20	10.0	2.0	200	N	N	N	100	N	N	N	N
83SR208C	43 14 3	72 39 54	.20	.20	20.0	2.0	500	N	N	N	50	N	N	N	N
83SR210C	43 13 6	72 44 11	.10	.10	5.0	2.0	100	N	N	N	<20	N	N	N	N
83SR212C	43 11 47	72 41 42	.20	.20	5.0	2.0	100	N	N	N	70	N	N	N	N
83SR213C	43 11 50	72 38 51	.50	1.00	20.0	2.0	500	N	N	N	50	N	N	N	N
83SR214C	43 9 50	72 43 30	.50	.20	20.0	2.0	200	N	N	N	<20	N	N	N	N
83SR215C	43 8 21	72 43 30	.20	.50	5.0	2.0	150	N	N	N	20	N	N	N	N
83SR216C	43 9 21	72 44 57	1.00	.05	20.0	2.0	200	N	N	N	<20	N	N	N	N
83SY200C	43 46 55	73 7 56	.20	.20	1.0	2.0	70	N	N	N	20	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83SR121C	100	15	100	N	50	N	20	N	20	N	500	70	N	500	N
83SR122C	20	<10	50	N	N	N	20	N	20	N	200	70	N	500	N
83SR123C	150	15	70	N	50	N	1,000	N	20	20	500	100	N	700	N
83SR124C	100	15	50	N	50	N	50	N	N	20	200	100	N	70	N
83SR125C	150	15	50	N	50	N	200	N	N	N	200	100	N	150	N
83SR126C	50	<10	50	N	<50	N	100	N	N	N	200	50	N	50	N
83SR127C	150	15	50	N	50	N	20	N	N	N	N	150	N	150	N
83SR128C	7,000	15	<50	N	N	200	N	N	N	50	N	500	N	30	500
83SR129C	500	20	<50	N	70	N	20	N	20	20	200	150	N	200	N
83SR130C	300	15	<50	N	70	N	70	N	20	20	N	150	N	200	N
83SR131C	200	15	50	N	70	N	20	N	N	20	N	150	N	150	N
83SR132C	300	15	<50	N	70	N	30	N	N	20	N	200	N	200	N
83SR133C	200	15	<50	N	70	N	30	N	30	N	N	100	N	200	N
83SR134C	70	15	50	N	N	N	50	N	10	N	200	20	N	200	N
83SR135C	70	50	50	N	N	N	50	N	50	N	200	50	N	700	N
83SR136C	50	10	100	N	N	N	50	N	20	N	700	50	N	500	N
83SR137C	500	10	50	N	N	N	70	N	50	N	200	50	N	300	N
83SR138C	100	10	100	N	N	N	70	N	20	N	200	50	N	300	N
83SR139C	100	20	100	N	N	N	1,500	N	20	20	200	70	N	200	N
83SR140C	100	1,000	50	N	N	N	50	N	20	N	700	70	N	700	N
83SR141C	100	20	<50	N	N	N	500	N	10	20	200	50	N	50	N
83SR142C	100	10	150	N	50	N	200	N	10	N	500	100	N	300	N
83SR143C	150	15	100	N	50	N	50	N	20	20	700	100	N	500	N
83SR144C	100	10	50	N	N	N	50	N	50	N	200	150	N	700	N
83SR145C	70	10	50	N	70	N	20	N	10	N	200	100	N	500	N
83SR146C	100	10	50	N	N	N	150	N	20	N	700	70	N	500	N
83SR147C	70	15	50	N	N	N	100	N	10	N	200	70	N	200	N
83SR148C	100	10	100	N	N	N	50	N	20	N	700	70	N	500	N
83SR149C	20	10	50	N	N	N	70	N	10	N	200	50	N	70	N
83SR200C	100	10	N	N	50	N	20	N	10	N	200	50	N	100	N
83SR201C	150	10	N	N	N	N	100	N	50	30	1,000	50	N	200	N
83SR202C	200	10	N	N	N	N	100	N	30	20	1,500	70	N	200	N
83SR203C	70	15	50	N	50	N	20	N	10	N	200	70	N	150	N
83SR204C	300	3,000	<50	N	70	N	300	N	10	N	200	70	N	200	N
83SR205C	150	10	50	N	N	N	50	N	10	N	200	100	N	200	N
83SR206C	150	10	<50	N	N	N	50	N	10	N	200	70	N	150	N
83SR207C	100	10	70	N	50	N	50	N	10	20	200	70	N	200	N
83SR208C	70	10	50	N	N	N	50	N	10	N	700	50	N	300	N
83SR210C	70	<10	50	N	N	N	50	N	50	N	200	50	N	300	N
83SR212C	70	10	50	N	N	N	70	N	10	N	200	70	N	200	N
83SR213C	150	15	100	N	70	N	50	N	10	N	200	100	N	200	N
83SR214C	100	10	100	N	N	N	50	N	30	N	200	100	N	300	N
83SR215C	70	20	50	N	N	N	50	N	20	N	N	70	N	200	N
83SR216C	150	10	50	N	N	N	20	N	20	N	200	20	N	200	N
83SY200C	70	10	<50	N	N	N	20	N	20	N	N	70	N	200	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
83SY201C	43 46 56	73 9 9	.30	.20	2.0	2.0	100	N	N	N	50	N	N	N	N
83WN100C	43 38 48	72 32 40	.50	.05	2.0	>2.0	100	N	N	N	50	N	N	N	20
83WN101C	43 38 49	72 34 26	.20	.05	5.0	>2.0	100	N	N	N	50	N	N	500	N
83WN102C	43 39 36	72 34 42	.50	.05	2.0	2.0	100	N	N	N	50	N	N	N	10
83WN103C	43 40 27	72 36 11	.50	.05	10.0	2.0	150	N	N	N	50	N	N	N	N
83WN104C	43 40 26	72 35 56	.20	.05	5.0	2.0	150	N	N	N	50	N	N	N	10
83WN105C	43 41 37	72 36 43	.50	.07	10.0	2.0	200	N	N	N	50	N	N	N	N
83WN106C	43 42 28	72 34 52	.50	.05	2.0	2.0	100	N	N	N	50	N	N	N	N
83WN107C	43 41 15	72 33 44	.50	.05	5.0	>2.0	200	N	N	N	100	N	N	N	20
83WN108C	43 38 39	72 30 27	.50	.07	2.0	>2.0	100	N	N	N	100	N	N	N	10
83WN109C	43 39 48	72 31 48	.50	.07	2.0	>2.0	100	N	N	N	70	N	N	N	N
83WN110C	43 40 46	72 31 59	.50	.10	5.0	>2.0	150	N	N	N	70	N	N	N	N
83WN111C	43 40 59	72 30 57	.20	.05	2.0	>2.0	150	N	N	N	50	N	N	N	N
83WN112C	43 41 47	72 31 13	.20	.07	2.0	>2.0	100	N	N	N	50	N	N	N	N
83WN113C	43 43 33	72 33 17	.20	.05	2.0	>2.0	100	N	N	N	50	N	N	N	N
83WN114C	43 44 12	72 32 42	.50	.05	2.0	>2.0	70	N	N	N	50	N	N	N	N
83WN115C	43 43 47	72 30 7	.50	.05	2.0	>2.0	100	N	N	N	50	N	N	N	N
83WS100C	43 35 26	72 30 53	.20	.10	2.0	>2.0	150	N	N	N	100	N	N	N	N
83WS101C	43 33 17	72 33 12	.20	.10	2.0	>2.0	150	N	N	N	100	N	N	N	N
83WS102C	43 32 51	72 33 28	.20	.05	5.0	>2.0	150	N	N	N	70	N	N	N	N
83WS103C	43 32 35	72 33 17	.20	.05	.5	>2.0	100	N	N	N	70	N	N	N	N
83WS104C	43 30 28	72 31 12	.20	.10	5.0	>2.0	200	N	N	N	100	N	N	N	N
83WS105C	43 31 58	72 30 12	.20	.10	1.0	>2.0	100	N	N	N	100	N	N	N	N
83WS106C	43 30 14	72 33 51	.30	.05	.5	>2.0	100	N	N	N	50	N	N	N	N
83WS107C	43 30 36	72 34 58	.30	.05	1.5	>2.0	100	N	N	N	50	N	N	N	N
83WS108C	43 35 47	72 31 36	.30	.10	5.0	>2.0	150	N	N	N	100	N	N	N	N
83WS109C	43 34 18	72 35 24	.30	.10	2.0	>2.0	100	N	N	N	70	N	N	N	N
83WS110C	43 35 38	72 33 38	.30	.10	5.0	>2.0	150	2	N	N	70	N	N	N	N
83WS111C	43 34 14	72 37 17	.30	.05	5.0	>2.0	100	N	N	N	50	N	N	N	N
83WS112C	43 37 12	72 35 11	1.00	.10	5.0	>2.0	100	N	N	N	100	500	N	N	N
83WS113C	43 37 0	72 33 55	.20	.05	.7	2.0	50	N	N	N	20	N	N	N	N
84AR100C	43 0 23	73 10 14	1.00	.50	1.5	>2.0	150	N	N	N	2,000	150	N	N	N
84AR101C	43 0 31	73 11 55	2.00	2.00	2.0	>2.0	150	N	N	N	500	500	N	N	N
84AR102C	43 2 52	73 10 57	2.00	.50	5.0	>2.0	150	N	N	N	300	1,000	N	N	10
84AR103C	43 2 50	73 9 3	.50	1.50	2.0	>2.0	100	N	N	N	2,000	200	N	N	N
84AR104C	43 6 20	73 14 20	2.00	.20	5.0	>2.0	150	N	N	N	300	1,000	2	N	10
84AR105C	43 6 3	73 13 42	1.50	.50	5.0	>2.0	150	N	N	N	300	1,000	N	N	10
84AR106C	43 7 16	73 12 31	1.50	.20	10.0	>2.0	150	N	N	N	200	700	N	N	10
84AR107C	43 5 3	73 11 51	1.50	.20	10.0	>2.0	150	N	N	N	200	700	N	N	N
84AR108C	43 2 44	73 8 12	.30	.50	1.0	>2.0	100	N	N	N	2,000	200	N	N	N
84AR109C	43 1 4	73 14 15	1.50	.20	15.0	2.0	150	N	N	N	100	700	2	N	10
84AR110C	43 0 12	73 14 51	1.50	.20	10.0	2.0	150	N	N	N	200	700	2	N	10
84AR111C	43 6 4	73 8 23	.70	.20	5.0	>2.0	150	N	N	N	500	200	N	N	N
84BD400C	43 48 36	73 2 32	.30	.05	5.0	>2.0	100	N	N	N	200	<50	N	N	N
84BD401C	43 47 11	73 1 42	.50	.05	10.0	>2.0	150	N	N	N	500	<50	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
83SY201C	70	10	<50	N	N	N	20	N	20	N	N	100	N	200	N
83WN100C	150	20	N	N	150	N	<20	N	10	N	200	100	N	30	N
83WN101C	200	15	N	N	200	N	<20	N	10	N	N	100	N	70	N
83WN102C	70	20	N	N	100	N	N	N	10	N	N	50	N	50	N
83WN103C	150	15	N	N	70	N	N	N	10	N	200	50	N	100	N
83WN104C	100	10	N	N	70	N	150	N	15	N	N	50	N	70	N
83WN105C	150	15	N	N	70	N	70	N	30	N	N	50	N	150	N
83WN106C	50	10	<50	N	N	N	N	N	10	N	N	20	N	50	N
83WN107C	150	15	N	N	100	N	N	N	20	N	300	100	N	70	500
83WN108C	200	15	N	N	100	N	N	N	N	N	200	100	N	30	N
83WN109C	200	15	N	N	100	N	N	N	N	50	200	100	N	30	N
83WN110C	200	15	N	N	150	N	20	N	10	N	200	100	N	50	N
83WN111C	150	10	N	N	100	N	N	N	N	70	N	100	N	30	N
83WN112C	200	15	N	N	70	N	150	N	N	N	N	100	N	50	N
83WN113C	150	10	N	N	150	N	150	N	15	150	N	100	N	50	N
83WN114C	150	10	N	N	100	N	N	N	10	N	N	100	N	50	N
83WN115C	150	10	N	N	150	N	N	N	10	N	N	100	N	50	N
83WS100C	200	15	N	N	200	N	150	N	N	70	200	100	N	30	N
83WS101C	150	15	N	N	150	N	N	N	10	N	N	100	N	30	N
83WS102C	200	15	N	N	200	N	N	N	N	N	N	150	N	30	N
83WS103C	200	15	N	N	200	N	N	N	N	N	N	150	N	30	N
83WS104C	200	15	N	N	150	N	N	N	N	N	N	150	N	70	N
83WS105C	300	15	N	N	150	N	N	N	N	N	N	150	N	20	N
83WS106C	100	10	N	N	150	N	N	N	N	N	N	100	N	20	N
83WS107C	150	15	N	N	150	N	N	N	10	N	N	100	N	30	N
83WS108C	150	15	N	N	200	N	N	N	N	20	500	150	N	50	N
83WS109C	200	15	N	N	200	N	200	N	N	20	N	150	N	30	N
83WS110C	150	15	N	N	200	N	300	N	N	20	500	100	N	70	N
83WS111C	150	20	N	N	200	N	N	N	10	N	N	100	N	100	N
83WS112C	150	15	N	N	200	N	20	N	10	N	200	100	N	70	N
83WS113C	50	<10	N	N	70	N	N	N	N	N	N	20	N	<20	N
84AR100C	100	<10	1,000	N	N	N	50	N	50	N	200	50	N	700	N
84AR101C	150	10	700	N	N	N	20	N	30	N	200	70	N	300	N
84AR102C	150	15	300	N	N	20	150	N	30	N	300	100	N	200	N
84AR103C	100	10	150	N	N	N	30	N	50	N	N	100	N	700	N
84AR104C	200	15	500	N	<50	N	50	N	30	N	500	100	N	100	N
84AR105C	200	20	700	N	<50	N	7,000	N	30	200	500	70	N	150	N
84AR106C	150	150	2,000	N	N	N	150	N	30	<20	500	70	N	150	N
84AR107C	200	<10	200	N	N	N	100	N	30	N	300	70	N	150	N
84AR108C	70	10	150	N	N	N	30	N	30	N	N	70	N	500	N
84AR109C	100	15	150	N	N	N	100	N	30	500	300	70	N	150	N
84AR110C	150	10	300	N	N	N	50	N	30	N	300	50	N	150	N
84AR111C	70	10	100	N	N	N	70	N	20	<20	N	70	N	500	N
84BD400C	70	10	50	N	<50	N	100	N	<10	200	200	50	N	300	N
84BD401C	70	10	150	N	<50	N	20	N	<10	N	500	20	N	700	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84BD402C	43 46 21	73 1 14	.50	.05	10.0	2.0	150	N	N	N	500	50	N	N	N
84BD403C	43 46 20	73 1 11	.30	.05	10.0	2.0	100	N	N	N	150	<50	N	N	N
84BE200C	43 38 49	73 16 19	1.00	1.50	5.0	>2.0	200	N	N	N	200	200	N	N	N
84BE201C	43 41 3	73 16 27	10.00	2.00	2.0	>2.0	7,000	N	N	N	500	N	<2	N	30
84BE202C	43 41 29	73 16 2	2.00	1.00	5.0	>2.0	200	N	N	N	200	200	N	N	N
84BE203C	43 43 44	73 16 25	1.00	2.00	5.0	>2.0	500	N	N	N	500	N	N	N	N
84BE204C	43 44 7	73 18 23	1.00	1.50	5.0	>2.0	200	N	N	N	200	N	N	N	N
84BE205C	43 40 36	73 20 0	7.00	2.00	5.0	>2.0	700	N	N	N	200	N	N	N	30
84BE206C	43 41 52	73 18 55	1.00	2.00	5.0	>2.0	500	N	N	N	200	N	N	N	N
84BE207C	43 39 26	73 22 2	.70	2.00	5.0	>2.0	700	N	N	N	500	N	N	N	N
84BL100C	43 32 30	73 34 57	2.00	2.00	5.0	>2.0	200	N	N	N	100	<50	N	N	N
84BL101C	43 33 6	73 35 36	5.00	2.00	5.0	>2.0	500	N	N	N	200	<50	N	N	N
84BL102C	43 31 0	73 30 31	2.00	1.50	2.0	>2.0	200	N	N	N	100	<50	N	N	N
84BL103C	43 31 13	73 31 43	2.00	1.00	2.0	>2.0	200	N	N	N	100	50	N	N	N
84BL104C	43 31 24	73 30 35	2.00	1.00	2.0	>2.0	200	N	N	N	100	<50	N	N	20
84BL105C	43 32 11	73 30 24	5.00	2.00	5.0	>2.0	500	N	N	N	100	<50	N	N	N
84BL200C	43 31 5	73 44 31	1.50	5.00	7.0	2.0	300	N	N	N	200	200	N	N	N
84BL201C	43 36 36	73 43 19	1.00	2.00	5.0	>2.0	200	N	N	N	200	200	N	N	N
84BL202C	43 36 30	73 43 12	1.00	2.00	10.0	>2.0	200	N	N	N	500	200	N	N	N
84BL203C	43 34 16	73 39 57	1.00	5.00	10.0	>2.0	200	N	N	N	500	200	N	N	N
84BL204C	43 35 33	73 38 36	1.00	2.00	5.0	2.0	200	N	N	N	500	300	N	N	N
84BL205C	43 36 41	73 37 46	1.00	2.00	5.0	>2.0	200	N	N	N	500	200	N	N	N
84BL206C	43 36 59	73 40 55	1.00	2.00	5.0	>2.0	200	N	N	N	500	200	N	N	N
84BL207C	43 39 15	73 43 45	1.00	2.00	7.0	>2.0	200	N	N	N	1,000	200	N	N	N
84BL208C	43 38 42	73 36 33	2.00	1.50	5.0	>2.0	200	N	N	N	100	70	N	N	N
84BL209C	43 39 57	73 36 51	2.00	2.00	5.0	>2.0	500	N	N	N	500	50	N	N	N
84BL210C	43 41 1	73 35 48	2.00	.70	2.0	>2.0	200	N	N	N	50	100	N	N	N
84BL211C	43 39 42	73 31 39	2.00	2.00	5.0	>2.0	500	N	N	N	50	<50	N	N	N
84BL212C	43 40 4	73 31 2	2.00	5.00	5.0	>2.0	500	N	N	N	50	70	N	N	N
84BL213C	43 40 27	73 30 43	.70	1.00	2.0	1.0	200	N	N	N	20	200	N	N	N
84BL214C	43 45 5	73 32 25	.70	.50	.5	2.0	100	N	N	N	20	200	N	N	N
84BL215C	43 43 15	73 40 14	1.00	5.00	7.0	>2.0	500	N	N	N	50	<50	N	N	N
84BL216C	43 44 38	73 38 15	1.00	2.00	5.0	>2.0	500	N	N	N	200	<50	<2	N	30
84BL217C	43 44 36	73 38 5	.50	1.00	5.0	>2.0	200	N	N	N	500	50	7	N	N
84BL218C	43 43 32	73 30 5	.50	.50	1.0	2.0	100	N	N	N	50	100	N	N	N
84BL219C	43 44 48	73 40 24	1.00	2.00	5.0	>2.0	200	N	N	N	700	<50	N	N	N
84BL220C	43 38 18	73 30 9	1.00	2.00	5.0	>2.0	200	N	N	N	100	<50	N	N	N
84BO100C	43 43 11	73 14 7	1.00	1.50	2.0	>2.0	200	N	N	N	200	N	N	N	N
84BO101C	43 43 3	73 12 13	1.00	.20	2.0	>2.0	200	N	N	N	200	200	2	N	N
84BO102C	43 43 56	73 8 16	.50	.20	.5	>2.0	70	N	N	N	200	N	2	N	N
84BO103C	43 41 58	73 9 15	.50	.20	.5	>2.0	100	N	N	N	150	N	2	N	N
84BO104C	43 40 47	73 10 30	.50	.20	1.0	>2.0	100	N	N	N	200	N	2	N	N
84BO105C	43 41 13	73 8 13	.50	.20	2.0	>2.0	100	5	N	N	200	300	2	N	N
84BO106C	43 39 29	73 7 48	5.00	1.00	5.0	>2.0	150	N	700	N	200	1,000	2	N	30
84BO107C	43 38 33	73 7 51	5.00	.50	5.0	>2.0	200	N	N	N	200	200	2	N	70

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84BD402C	70	10	50	N	<50	N	20	N	<10	N	500	20	N	200	N
84BD403C	70	10	50	N	<50	N	20	N	10	N	200	20	N	200	N
84BE200C	200	70	70	N	100	N	1,000	<200	10	500	200	100	N	200	N
84BE201C	2,000	50	100	N	70	70	20	300	50	20	N	150	N	200	<500
84BE202C	200	50	150	N	70	N	20	<200	10	N	200	150	N	200	N
84BE203C	200	50	200	N	100	N	200	<200	20	500	200	150	N	300	N
84BE204C	200	50	100	N	100	N	70	<200	20	100	200	150	N	300	N
84BE205C	100	70	50	N	70	70	70	N	20	N	200	100	N	200	700
84BE206C	300	20	150	N	70	N	70	<200	20	500	200	100	N	300	N
84BE207C	70	10	200	N	70	N	700	N	10	70	200	100	N	200	N
84BL100C	200	10	100	N	70	N	50	N	10	N	N	200	N	200	N
84BL101C	200	10	500	N	50	N	20	N	20	N	N	200	100	200	N
84BL102C	100	10	150	N	50	N	30	N	20	N	N	150	N	300	N
84BL103C	200	20	150	N	50	N	300	N	20	300	N	150	N	200	N
84BL104C	200	70	70	N	70	N	20	N	10	70	N	150	N	200	N
84BL105C	100	10	70	N	70	N	<20	N	10	N	<200	150	N	200	N
84BL200C	70	10	200	N	N	N	20	N	10	<20	N	100	N	200	N
84BL201C	70	10	300	N	50	N	20	N	10	<20	200	70	N	200	N
84BL202C	70	10	150	N	<50	N	50	N	10	<20	200	70	N	200	N
84BL203C	70	50	150	N	<50	N	70	N	15	<20	200	70	N	150	N
84BL204C	70	<10	50	N	50	N	20	N	15	N	200	70	N	100	N
84BL205C	150	10	200	N	<50	N	20	N	10	N	200	70	N	200	N
84BL206C	100	10	300	N	50	N	50	N	15	N	200	70	N	200	N
84BL207C	100	10	200	N	<50	N	20	N	<10	<20	200	70	N	200	N
84BL208C	70	10	100	N	100	N	<20	N	10	<20	N	150	N	200	N
84BL209C	100	10	100	N	100	N	<20	N	10	20	N	100	N	200	N
84BL210C	50	10	200	N	70	N	<20	N	10	N	N	100	N	200	N
84BL211C	100	20	200	N	70	N	<20	N	10	<20	N	100	N	200	N
84BL212C	50	<10	50	N	50	N	20	N	10	N	N	70	N	100	N
84BL213C	N	<10	N	N	50	N	<20	N	10	N	N	50	N	50	N
84BL214C	50	<10	200	N	70	N	<20	N	10	N	N	50	N	70	N
84BL215C	70	10	500	N	100	N	20	N	20	20	N	100	N	200	N
84BL216C	50	30	200	N	70	N	20	N	10	<20	N	100	150	200	N
84BL217C	70	10	200	N	50	N	20	N	10	20	N	150	N	200	N
84BL218C	20	<10	100	N	50	N	<20	N	10	N	N	50	N	100	N
84BL219C	300	20	100	N	70	N	<20	N	10	20	N	150	N	200	N
84BL220C	70	10	100	N	70	N	20	N	20	30	N	100	N	200	N
84BO100C	100	20	N	N	150	N	200	N	20	150	N	150	N	500	N
84BO101C	70	10	N	N	150	N	200	N	10	N	N	150	N	500	N
84BO102C	70	10	N	N	100	N	50	N	10	300	N	150	N	500	N
84BO103C	70	10	N	N	100	N	20	N	20	N	N	150	N	500	N
84BO104C	70	10	N	N	150	N	20	N	20	N	N	150	N	500	N
84BO105C	70	100	N	N	100	N	700	N	20	2,000	N	150	N	500	N
84BO106C	70	200	150	N	100	70	500	N	10	20	200	150	N	500	N
84BO107C	70	70	100	N	100	50	50	N	10	70	200	150	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84BO108C	43 38 20	73 9 4	.50	.20	5.0	>2.0	150	N	N	N	150	700	2	N	N
84BO109C	43 44 46	73 11 51	1.00	.70	2.0	>2.0	200	N	N	N	700	N	N	N	N
84BO110C	43 44 21	73 10 37	2.00	.50	1.0	>2.0	200	N	N	N	500	200	N	N	N
84BO111C	43 43 23	73 10 59	2.00	1.00	7.0	>2.0	500	N	N	N	500	300	N	N	N
84BO112C	43 42 39	73 10 32	2.00	.70	2.0	>2.0	500	N	N	N	500	200	2	N	N
84BO113C	43 41 48	73 11 1	2.00	.70	2.0	>2.0	500	N	N	N	500	200	2	N	20
84BO114C	43 39 40	73 10 34	2.00	1.00	2.0	>2.0	500	N	N	N	700	2,000	2	N	N
84BR200C	43 52 47	72 55 34	.50	.10	10.0	2.0	100	N	N	N	70	<50	N	N	N
84BR201C	43 59 46	72 52 43	2.00	.05	5.0	2.0	200	N	N	N	70	<50	N	N	20
84BR202C	43 59 26	72 53 52	1.00	.05	10.0	2.0	200	N	N	N	150	<50	N	N	10
84BR203C	43 55 38	72 52 41	1.00	.07	5.0	2.0	200	N	N	N	150	70	2	N	N
84BR204C	43 55 35	72 53 15	1.00	.10	2.0	1.5	150	N	N	N	150	70	<2	N	10
84BR205C	43 56 40	72 54 24	2.00	.05	5.0	2.0	200	N	N	N	100	<50	N	N	30
84BR206C	43 56 33	72 54 33	2.00	.10	5.0	2.0	200	N	N	N	150	<50	N	N	30
84BR207C	43 55 39	72 54 9	2.00	.10	7.0	2.0	200	N	N	N	150	200	2	N	30
84BR208C	43 55 38	72 55 12	1.00	.05	7.0	2.0	150	N	N	N	150	<50	N	N	10
84BR209C	43 56 22	72 59 7	1.00	.10	2.0	2.0	150	N	N	N	100	<50	N	N	N
84BR210C	43 57 24	72 58 57	1.00	.05	.5	1.5	100	N	N	N	100	<50	N	N	N
84BR211C	43 59 20	72 57 58	1.00	.05	1.0	2.0	100	N	N	N	150	<50	N	N	N
84CA600C	43 24 19	72 34 25	.50	.20	15.0	>2.0	200	N	N	N	20	200	N	N	N
84CA601C	43 26 2	72 32 49	.50	1.00	10.0	>2.0	200	N	N	N	200	700	N	N	N
84CA602C	43 24 33	72 30 12	.50	.10	5.0	>2.0	200	N	N	N	150	200	N	N	N
84CA603C	43 24 41	72 35 55	1.50	.10	10.0	>2.0	150	N	N	N	100	500	N	N	50
84CA604C	43 24 5	72 36 48	1.00	1.00	10.0	>2.0	150	N	N	N	500	500	N	N	20
84CA605C	43 28 54	72 37 29	1.00	.20	10.0	>2.0	200	N	N	N	100	200	N	N	20
84CA606C	43 29 0	72 36 4	.50	.10	5.0	>2.0	150	N	N	N	100	200	N	N	10
84CA607C	43 29 54	72 31 12	1.00	.10	7.0	>2.0	150	N	N	N	150	150	N	N	N
84CA608C	43 24 59	72 31 48	.70	10.00	10.0	2.0	500	N	N	N	50	150	N	N	N
84CR100C	43 50 25	72 59 47	.50	.10	10.0	2.0	150	N	N	N	70	<50	N	N	N
84CR101C	43 50 24	72 56 48	.50	<.05	15.0	2.0	150	N	N	N	<20	<50	N	N	10
84CR102C	43 50 21	72 56 32	.30	<.05	10.0	2.0	150	N	N	N	20	<50	N	N	N
84CR103C	43 50 40	72 53 59	.50	<.05	7.0	2.0	100	N	N	N	50	<50	N	N	10
84CR104C	43 49 27	72 54 33	.30	<.05	5.0	1.0	100	N	N	N	50	<50	N	N	10
84CR105C	43 49 34	72 54 44	1.00	.05	10.0	2.0	200	N	N	N	100	<50	N	N	150
84CR106C	43 51 19	72 54 35	.50	.05	10.0	2.0	200	N	N	N	20	<50	N	N	N
84CR107C	43 51 7	72 55 27	1.00	.20	10.0	2.0	200	N	N	N	70	<50	N	N	N
84CR108C	43 45 25	72 57 57	.50	.05	10.0	2.0	150	N	N	N	50	<50	N	N	N
84CR109C	43 46 56	72 58 7	.50	.05	2.0	2.0	200	N	N	N	50	<50	N	N	N
84CR110C	43 47 21	72 58 41	.50	.05	10.0	2.0	150	N	N	N	70	<50	N	N	N
84CR200C	43 47 12	72 52 42	.70	<.05	10.0	2.0	150	N	N	N	70	<50	N	N	10
84CR201C	43 52 27	72 54 33	.50	<.05	5.0	1.5	150	N	N	N	70	<50	N	N	20
84CR202C	43 52 22	72 53 7	1.00	.05	10.0	2.0	200	N	N	N	70	<50	N	N	10
84CT100C	43 42 40	72 57 58	.20	.05	10.0	2.0	100	N	N	N	20	<50	N	N	N
84CT101C	43 44 19	72 56 0	.20	<.05	5.0	2.0	100	N	N	N	20	<50	N	N	N
84CT102C	43 42 19	72 53 21	.30	5.00	10.0	2.0	150	N	N	N	150	200	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84B0108C	70	10	100	N	100	N	100	N	20	100	N	150	N	500	N
84B0109C	100	20	150	N	150	N	20	N	20	N	N	200	N	500	N
84B0110C	200	10	100	N	100	N	20	<200	20	N	N	150	N	500	N
84B0111C	100	20	200	N	150	N	70	N	10	200	1,000	150	N	300	N
84B0112C	200	20	150	N	150	N	30	<200	10	70	N	150	N	300	N
84B0113C	200	200	150	N	200	N	1,000	N	20	70	N	150	N	300	N
84B0114C	700	20	500	N	150	N	20	200	20	N	N	150	N	300	N
84BR200C	70	10	100	N	N	N	20	N	10	N	300	20	N	200	N
84BR201C	70	10	50	N	N	N	20	N	N	N	200	20	N	70	N
84BR202C	100	10	50	N	70	N	20	N	10	N	200	20	N	100	N
84BR203C	100	10	50	N	N	N	20	N	N	N	200	20	N	100	N
84BR204C	50	20	<50	N	N	N	<20	N	N	N	N	<20	N	50	N
84BR205C	100	15	<50	N	50	N	20	N	10	N	200	50	N	100	N
84BR206C	100	15	100	N	N	N	20	N	N	N	200	20	N	100	N
84BR207C	100	15	50	N	N	N	50	N	10	N	200	50	N	100	N
84BR208C	100	10	50	N	50	N	<20	N	10	N	200	20	N	100	N
84BR209C	100	15	50	N	50	N	<20	N	30	N	N	20	N	200	N
84BR210C	70	<10	50	N	N	N	<20	N	10	N	N	20	N	70	N
84BR211C	100	10	<50	N	50	N	<20	N	<10	N	N	20	N	50	N
84CA600C	100	10	<50	N	70	N	20	N	10	N	300	50	N	200	N
84CA601C	100	15	50	N	70	N	70	N	10	100	200	70	N	300	N
84CA602C	150	15	100	N	150	N	20	N	10	30	300	100	N	150	N
84CA603C	70	20	<50	N	100	N	<20	N	10	N	200	70	100	150	N
84CA604C	100	15	50	N	50	N	<20	N	10	N	200	70	N	200	N
84CA605C	70	15	<50	N	150	N	50	N	10	100	200	70	N	50	N
84CA606C	100	15	50	N	200	N	N	N	10	N	200	70	<100	50	N
84CA607C	150	15	70	N	150	N	20	N	10	N	1,000	150	N	50	N
84CA608C	50	10	50	N	100	N	<20	N	10	N	200	70	<100	100	N
84CR100C	100	10	50	N	N	N	<20	N	10	N	200	50	N	500	N
84CR101C	50	200	50	N	N	N	70	700	10	500	200	20	N	500	N
84CR102C	20	<10	50	N	N	N	20	N	10	N	200	20	N	300	N
84CR103C	70	<10	50	N	N	N	<20	N	10	N	200	20	100	200	N
84CR104C	50	<10	50	N	N	N	30	N	<10	N	200	<20	N	200	N
84CR105C	70	10	50	N	<50	N	20	N	<10	N	200	20	N	200	N
84CR106C	70	10	50	N	<50	N	20	N	<10	N	200	20	N	200	N
84CR107C	70	10	70	N	<50	N	20	N	<10	N	200	50	N	200	N
84CR108C	70	10	50	N	<50	N	20	N	<10	N	N	<20	N	300	N
84CR109C	50	20	50	N	<50	N	30	N	<10	30	300	<20	N	150	N
84CR110C	70	10	70	N	<50	N	20	N	<10	N	300	50	N	500	N
84CR200C	50	10	50	N	50	N	20	N	<10	<20	200	20	N	300	N
84CR201C	20	<10	50	N	<50	N	<20	N	<10	N	200	<20	N	100	N
84CR202C	50	10	50	N	<50	N	20	N	<10	N	N	20	N	150	N
84CT100C	70	10	50	N	N	N	20	N	20	N	200	<20	N	500	N
84CT101C	50	10	<50	N	N	N	20	N	10	N	200	<20	N	200	N
84CT102C	50	<10	<50	N	<50	N	<20	N	10	N	200	<20	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84CT103C	43 42 9	72 53 13	.30	2.00	10.0	2.0	150	N	N	N	100	<50	N	N	N
84CT104C	43 42 53	72 55 20	.50	10.00	10.0	1.0	200	N	N	N	100	<50	N	N	N
84CT105C	43 40 14	72 59 11	.20	.05	.2	1.0	70	N	N	N	50	200	N	N	N
84CT106C	43 39 8	72 57 44	.20	.05	.1	1.0	50	N	N	N	70	200	N	N	N
84CT107C	43 37 41	72 56 10	.20	.50	5.0	2.0	100	N	N	N	70	<50	N	N	N
84CT108C	43 38 30	72 53 33	.20	.20	5.0	2.0	50	N	N	N	50	<50	N	N	N
84CT109C	43 38 38	72 53 10	.20	.50	10.0	2.0	150	N	N	N	70	<50	N	N	N
84CT110C	43 39 19	72 53 19	.20	1.00	10.0	2.0	200	N	N	N	100	<50	N	N	N
84CT111C	43 39 32	72 56 12	.50	5.00	5.0	1.5	200	N	N	N	70	<50	N	N	N
84CT112C	43 40 51	72 56 29	.50	2.00	7.0	2.0	100	N	N	N	70	<50	N	N	N
84CY200C	43 14 44	73 27 22	1.00	1.00	5.0	>2.0	500	N	N	N	200	2,000	N	N	N
84CY201C	43 9 57	73 23 39	1.00	.50	5.0	>2.0	200	N	N	N	200	>10,000	N	N	N
84CY202C	43 11 14	73 24 49	1.00	1.00	10.0	>2.0	200	N	N	N	200	>10,000	N	N	N
84CY203C	43 11 6	73 26 35	1.00	1.00	5.0	>2.0	200	N	N	N	200	>10,000	N	N	N
84CY204C	43 11 7	73 29 33	1.00	1.00	5.0	>2.0	200	N	N	N	200	2,000	N	N	N
84CY205C	43 8 20	73 28 18	1.00	1.00	10.0	>2.0	200	N	N	N	200	5,000	N	<20	N
84DO100C	43 23 1	73 6 6	1.00	.05	10.0	1.5	100	N	N	30	70	<50	N	N	N
84DO101C	43 21 59	73 5 50	.50	.10	5.0	2.0	100	N	N	N	100	<50	N	N	N
84DO104C	43 16 7	73 5 37	.10	<.05	10.0	.2	70	N	N	N	50	<50	N	N	N
84DO105C	43 15 35	73 3 28	.15	.10	10.0	.7	70	N	N	N	100	1,500	N	N	N
84DO106C	43 15 54	73 3 24	.10	.05	10.0	.2	70	N	N	N	70	<50	N	N	N
84DO107C	43 17 3	73 2 45	.20	<.05	20.0	.1	150	N	N	N	20	200	N	N	N
84DO108C	43 17 4	73 2 55	.10	<.05	20.0	1.0	150	N	N	N	20	200	N	N	N
84DO109C	43 15 9	73 0 34	2.00	1.00	5.0	2.0	100	N	N	N	500	500	N	N	10
84DO110C	43 17 7	73 0 20	1.00	1.00	5.0	2.0	100	N	N	N	500	500	N	N	N
84DO111C	43 17 42	73 6 29	1.00	.20	5.0	2.0	100	N	N	N	200	500	N	N	N
84DO112C	43 19 41	73 4 44	.30	.10	5.0	2.0	70	N	N	N	200	500	N	N	N
84DO113C	43 19 57	73 3 58	.30	.07	3.0	2.0	70	N	N	N	200	300	N	N	N
84DO114C	43 20 4	73 3 0	.50	.20	3.0	2.0	100	N	N	N	300	300	N	N	N
84DO115C	43 21 24	73 3 57	.50	.20	5.0	2.0	100	N	N	N	200	300	N	N	N
84DO116C	43 20 35	73 1 32	.50	.50	5.0	2.0	100	N	N	N	500	500	N	N	N
84DO117C	43 20 17	73 1 19	.50	.50	3.0	2.0	70	N	N	N	200	200	N	N	N
84EM100C	43 54 17	73 3 55	.70	.10	5.0	2.0	100	N	N	N	100	200	N	N	N
84EM101C	43 58 49	73 6 19	.70	.10	1.0	2.0	70	N	N	N	100	<50	N	N	N
84EM102C	43 59 47	73 5 32	.70	.10	2.0	2.0	50	N	N	N	150	<50	N	N	N
84EM103C	43 59 20	73 2 25	1.00	.20	10.0	2.0	150	N	N	N	500	<50	N	N	N
84EM104C	43 59 7	73 3 14	1.50	.50	5.0	2.0	200	N	N	N	1,000	<50	N	N	N
84EM105C	43 58 35	73 1 18	1.00	.05	2.0	2.0	70	N	N	N	100	<50	N	N	N
84EM106C	43 58 31	73 1 23	1.00	.05	1.0	2.0	150	N	N	N	50	<50	N	N	N
84EM107C	43 57 33	73 1 40	.50	.05	7.0	2.0	100	N	N	N	100	<50	N	N	N
84EM108C	43 57 30	73 0 59	1.00	.10	2.0	2.0	150	N	N	N	100	<50	N	N	N
84EM109C	43 57 25	73 4 37	1.00	.05	5.0	2.0	100	N	N	N	150	<50	N	N	N
84FA200C	43 29 15	73 26 8	2.00	1.50	2.0	>2.0	500	N	N	N	50	200	N	N	10
84GF100C	43 27 10	73 44 12	2.00	2.00	5.0	>2.0	700	N	N	N	500	N	N	N	N
84GF101C	43 26 18	73 43 43	2.00	5.00	5.0	>2.0	700	N	N	N	500	N	2	N	10

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84CT103C	70	10	<50	N	50	N	100	N	10	N	200	20	N	300	N
84CT104C	50	<10	<50	N	N	N	50	N	10	N	N	20	N	150	N
84CT105C	20	<10	<50	N	N	N	N	N	10	N	N	<20	N	100	N
84CT106C	20	<10	70	N	N	N	N	N	10	N	N	<20	N	100	N
84CT107C	70	10	<50	N	<50	N	70	N	30	N	N	<20	N	300	N
84CT108C	100	10	<50	N	<50	N	150	N	30	N	N	20	N	300	N
84CT109C	70	10	<50	N	<50	N	50	N	20	N	200	20	N	200	N
84CT110C	70	10	<50	N	<50	N	20	N	10	N	200	20	N	500	N
84CT111C	50	<10	<50	N	N	N	N	N	10	N	N	<20	N	150	N
84CT112C	70	10	50	N	N	N	<20	N	20	N	200	20	N	500	N
84CY200C	150	100	50	N	70	N	300	N	20	100	200	100	N	300	N
84CY201C	200	5,000	200	N	70	N	1,000	N	20	1,500	500	100	N	500	N
84CY202C	150	200	100	N	50	N	200	N	10	100	500	50	N	200	N
84CY203C	150	200	100	N	50	N	200	N	10	1,000	500	70	N	200	N
84CY204C	200	70	100	N	70	N	200	N	10	100	500	100	N	200	N
84CY205C	70	70	200	N	70	N	100	N	10	1,000	500	100	N	500	N
84DO100C	50	<10	50	N	N	N	150	N	20	N	700	20	N	300	N
84DO101C	70	150	50	N	N	N	700	N	20	N	700	20	N	500	N
84DO104C	N	<10	<50	N	N	N	100	N	20	N	700	<20	N	500	N
84DO105C	50	<10	<50	N	N	N	700	N	20	N	700	N	N	300	N
84DO106C	50	<10	<50	N	N	N	500	N	20	30	1,000	20	N	500	N
84DO107C	50	<10	<50	N	N	N	50	N	20	N	500	<20	N	300	N
84DO108C	20	<10	<50	N	N	N	50	N	10	N	700	<20	N	300	N
84DO109C	70	10	50	N	N	N	20	N	20	N	200	20	N	200	N
84DO110C	100	10	100	N	50	N	50	N	30	N	200	50	N	200	N
84DO111C	70	20	70	N	N	N	150	N	20	30	500	20	N	300	N
84DO112C	100	10	<50	N	N	N	20	N	30	N	500	20	N	300	N
84DO113C	70	<10	<50	N	N	N	100	N	30	30	200	20	N	300	N
84DO114C	100	10	<50	N	N	N	500	<200	30	30	200	20	N	300	N
84DO115C	100	10	50	N	50	N	150	N	20	30	500	20	N	300	N
84DO116C	100	10	50	N	N	N	20	N	30	50	200	20	N	300	N
84DO117C	100	150	<50	N	N	N	20	N	30	N	N	20	N	500	N
84EM100C	70	150	50	N	N	N	70	N	10	N	200	50	N	200	N
84EM101C	100	10	<50	N	N	N	<20	N	10	N	N	50	N	200	N
84EM102C	150	10	<50	N	N	N	20	N	10	N	N	50	N	300	N
84EM103C	100	10	50	N	N	N	<20	N	10	N	700	50	N	200	N
84EM104C	70	10	50	N	70	N	<20	N	15	N	300	70	N	200	N
84EM105C	100	10	50	N	N	N	<20	N	15	N	N	50	N	200	N
84EM106C	70	10	50	N	N	N	N	N	10	N	200	50	N	100	N
84EM107C	100	10	50	N	50	N	20	N	10	N	700	50	N	300	N
84EM108C	100	10	50	N	50	N	<20	N	15	N	N	50	N	150	N
84EM109C	100	10	50	N	N	N	<20	N	10	N	500	50	N	300	N
84FA200C	300	20	200	N	70	N	N	200	10	N	N	200	N	100	N
84GF100C	100	10	2,000	N	70	N	20	<200	20	<20	N	150	N	300	N
84GF101C	50	<10	200	N	<50	N	<20	N	20	<20	200	100	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84GF102C	43 24 46	73 43 28	2.00	5.00	5.0	>2.0	700	N	N	N	500	N	N	N	10
84GF103C	43 24 28	73 42 2	2.00	5.00	5.0	2.0	700	N	N	N	500	N	2	N	10
84GF104C	43 23 55	73 43 48	2.00	5.00	5.0	>2.0	700	N	N	N	500	N	2	N	10
84GF105C	43 20 18	73 44 18	2.00	2.00	5.0	>2.0	700	N	N	N	700	200	<2	N	10
84GF106C	43 19 5	73 44 24	2.00	5.00	5.0	>2.0	700	N	N	N	500	N	N	N	10
84GF109C	43 26 10	73 35 42	2.00	5.00	5.0	>2.0	700	N	N	N	100	N	<2	N	10
84GF110C	43 27 9	73 34 53	2.00	5.00	5.0	>2.0	700	N	N	N	500	N	<2	N	10
84GF111C	43 28 58	73 34 37	1.50	5.00	5.0	>2.0	500	N	N	N	100	N	<2	N	10
84GF112C	43 28 22	73 30 24	2.00	5.00	5.0	>2.0	500	N	N	N	1,000	N	<2	N	10
84GF113C	43 27 8	73 30 42	5.00	5.00	5.0	>2.0	700	N	N	N	50	N	N	N	20
84GF114C	43 26 25	73 31 1	2.00	2.00	5.0	>2.0	700	N	N	N	700	N	N	N	10
84GR205C	43 29 48	73 17 9	2.00	1.50	10.0	>2.0	200	N	N	N	200	3,000	N	N	N
84GR206C	43 27 54	73 17 7	2.00	1.50	5.0	>2.0	200	N	N	N	100	5,000	N	N	N
84GR207C	43 27 48	73 15 23	3.00	3.00	5.0	>2.0	200	N	N	N	200	5,000	N	N	10
84GR208C	43 23 12	73 17 54	2.00	1.00	5.0	>2.0	200	N	N	N	700	700	N	N	N
84GR209C	43 25 13	73 17 59	1.50	1.00	7.0	>2.0	200	7	N	N	500	300	N	N	N
84GR211C	43 27 18	73 19 15	2.00	1.00	2.0	>2.0	500	N	N	N	700	>10,000	2	N	N
84GR212C	43 29 15	73 21 42	2.00	2.00	5.0	>2.0	500	N	N	N	200	>10,000	N	N	N
84GR213C	43 22 39	73 19 6	2.00	1.00	5.0	>2.0	700	N	N	N	50	2,000	N	N	N
84GR214C	43 25 46	73 19 45	2.00	1.00	5.0	>2.0	200	N	N	N	200	3,000	N	N	N
84GR215C	43 22 51	73 22 20	2.00	1.50	5.0	>2.0	200	N	N	200	300	>10,000	N	N	N
84GR216C	43 24 55	73 22 21	2.00	1.50	5.0	>2.0	200	N	N	N	300	3,000	N	N	N
84HK200C	43 52 31	72 48 18	.50	.05	10.0	2.0	200	N	N	N	50	<50	N	N	N
84HK201C	43 53 17	72 48 45	.20	.10	5.0	2.0	150	N	N	N	50	<50	N	N	N
84HK202C	43 52 38	72 48 48	2.00	.05	10.0	1.0	200	N	N	N	70	<50	2	N	30
84HK203C	43 54 21	72 48 47	5.00	.10	7.0	2.0	200	N	700	N	70	<50	N	N	70
84HK204C	43 55 13	72 50 3	2.00	.10	10.0	2.0	200	N	N	N	50	<50	N	N	70
84HK205C	43 54 18	72 50 54	1.00	.10	1.0	.5	150	N	N	N	50	<50	N	N	10
84HK206C	43 55 45	72 51 57	.50	.05	5.0	2.0	150	N	N	N	70	<50	N	N	N
84HK207C	43 57 8	72 50 9	1.00	.05	10.0	2.0	150	N	N	N	50	<50	N	N	10
84HK208C	43 59 27	72 50 24	2.00	.10	10.0	2.0	300	N	500	N	50	<50	N	N	30
84HK209C	43 58 32	72 50 30	1.00	.20	10.0	2.0	150	N	N	N	150	<50	N	N	N
84HK210C	43 59 14	72 45 13	7.00	1.00	2.0	1.0	1,000	N	N	N	100	200	2	N	20
84HK211C	43 59 5	72 45 18	.50	.10	7.0	2.0	200	N	N	30	20	<50	N	N	10
84HK212C	43 59 38	72 52 5	1.00	.10	5.0	2.0	200	N	N	N	50	200	N	N	10
84HK213C	43 58 8	72 50 45	2.00	.10	5.0	2.0	200	N	N	N	50	<50	N	N	50
84KP100C	43 33 26	72 51 36	.70	1.00	20.0	>2.0	700	N	N	N	150	N	N	N	N
84KP101C	43 33 26	72 51 12	.50	2.00	5.0	>2.0	200	N	N	N	500	N	N	N	N
84KP102C	43 32 38	72 50 8	.50	.20	7.0	>2.0	150	N	N	N	200	N	N	N	N
84KP103C	43 31 32	72 46 59	.70	2.00	7.0	>2.0	200	N	N	N	500	700	N	N	N
84KP104C	43 31 48	72 49 35	.50	2.00	7.0	>2.0	200	N	N	N	2,000	N	N	N	N
84KP105C	43 32 14	72 52 21	.50	1.50	7.0	>2.0	200	N	N	N	1,000	N	N	N	N
84KP106C	43 30 9	72 52 18	.50	1.00	7.0	>2.0	200	N	N	N	5,000	N	N	N	N
84KP107C	43 36 14	72 45 32	1.00	5.00	7.0	>2.0	200	N	N	N	700	7,000	N	N	N
84KP108C	43 35 18	72 45 23	.50	2.00	10.0	>2.0	150	N	N	N	200	1,000	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84GF102C	70	<10	100	N	N	30	30	N	20	N	200	100	N	500	N
84GF103C	70	<10	200	N	N	N	30	N	30	N	200	100	N	200	N
84GF104C	70	<10	150	N	50	N	N	N	30	<20	200	100	N	200	N
84GF105C	70	<10	2,000	N	<50	N	30	N	30	N	200	100	N	300	N
84GF106C	70	10	1,500	N	<50	N	30	N	30	N	N	100	N	300	N
84GF109C	150	50	1,000	N	50	30	20	N	20	20	N	150	N	150	N
84GF110C	200	10	700	N	50	N	<20	<200	20	N	N	200	N	200	N
84GF111C	200	10	50	N	N	N	70	<200	10	70	N	100	N	150	N
84GF112C	100	10	70	N	50	N	N	<200	50	N	N	200	N	100	N
84GF113C	200	10	700	N	50	N	<20	<200	70	N	N	200	N	200	N
84GF114C	200	10	200	N	70	N	<20	<200	10	N	200	200	N	200	N
84GR205C	150	100	150	N	70	N	500	N	10	70	500	150	N	300	N
84GR206C	150	50	150	N	100	N	30	N	10	N	200	100	N	300	N
84GR207C	70	100	150	N	70	30	500	N	10	500	200	100	N	300	N
84GR208C	300	70	100	N	150	N	70	<200	10	20	200	100	N	300	N
84GR209C	150	50	150	N	70	N	20	<200	20	N	300	100	N	300	N
84GR211C	200	70	150	N	70	N	30	<200	20	20	200	100	N	200	N
84GR212C	150	100	100	N	100	N	70	<200	10	150	200	150	N	200	700
84GR213C	100	20	200	N	100	N	30	N	10	N	300	100	N	200	700
84GR214C	150	10	70	N	70	N	20	N	20	N	200	100	N	200	N
84GR215C	150	70	100	N	100	50	500	N	10	1,000	500	100	N	200	N
84GR216C	200	70	150	N	50	N	20	<200	30	50	200	150	N	300	N
84HK200C	70	10	<50	N	50	N	<20	N	N	70	500	50	N	150	N
84HK201C	50	<10	<50	N	N	N	50	N	15	N	200	20	N	100	N
84HK202C	50	10	<50	N	N	N	20	N	N	N	300	20	N	100	N
84HK203C	50	100	<50	N	50	30	300	N	10	150	300	50	N	100	N
84HK204C	70	50	<50	N	50	10	<20	N	N	N	300	50	N	100	N
84HK205C	20	10	<50	N	N	N	N	N	<10	N	N	50	N	20	N
84HK206C	70	10	50	N	50	N	20	N	10	70	N	20	N	100	N
84HK207C	50	10	<50	N	50	N	2,000	200	N	N	200	20	N	100	N
84HK208C	100	200	50	N	50	N	100	N	N	100	200	50	N	100	N
84HK209C	70	10	50	N	50	N	20	N	N	N	200	20	N	100	N
84HK210C	150	100	<50	N	N	50	50	N	20	N	200	100	N	30	N
84HK211C	70	10	<50	N	N	N	N	N	N	N	200	20	N	70	N
84HK212C	100	150	50	N	50	N	<20	N	N	N	200	50	N	70	N
84HK213C	70	150	50	N	N	N	<20	N	N	N	200	50	N	100	N
84KP100C	50	200	100	N	150	N	70	N	10	100	700	150	N	700	N
84KP101C	70	10	N	N	150	N	20	N	20	50	700	150	150	500	N
84KP102C	70	10	N	N	150	N	20	N	50	N	1,000	150	N	700	N
84KP103C	30	10	100	N	70	N	20	N	10	N	700	150	N	300	N
84KP104C	30	70	100	N	150	N	20	N	10	N	200	100	N	500	N
84KP105C	70	10	100	N	200	N	50	N	10	200	200	150	150	500	N
84KP106C	70	10	100	N	200	N	50	N	10	100	500	150	100	500	N
84KP107C	70	10	100	N	200	N	<20	N	10	20	200	150	N	700	N
84KP108C	70	10	100	N	150	N	20	N	10	20	500	150	100	500	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84KP109C	43 33 44	72 45 38	.70	2.00	10.0	>2.0	150	N	N	N	500	200	N	N	N
84KP110C	43 32 52	72 45 12	1.00	2.00	10.0	>2.0	200	N	N	N	2,000	700	N	N	N
84LL100C	43 15 30	73 48 33	.50	2.00	5.0	>2.0	200	N	N	N	50	200	N	N	N
84LL101C	43 18 42	73 45 53	1.00	2.00	5.0	>2.0	300	N	N	N	100	N	N	N	N
84LL102C	43 18 19	73 46 43	.50	1.50	2.0	>2.0	150	N	N	N	100	300	N	N	N
84LL103C	43 17 24	73 49 48	2.00	2.00	5.0	>2.0	500	N	N	N	200	N	N	N	N
84LL104C	43 17 28	73 53 22	2.00	5.00	5.0	>2.0	500	N	N	N	150	N	N	N	N
84LL105C	43 16 39	73 49 55	1.00	2.00	5.0	>2.0	500	N	N	N	100	500	N	N	N
84LL106C	43 22 56	73 46 48	.50	2.00	5.0	>2.0	500	N	N	N	100	200	2	N	N
84LL107C	43 24 2	73 52 52	.50	1.50	5.0	>2.0	200	N	N	N	70	200	2	N	N
84LL108C	43 23 0	73 51 42	.50	2.00	5.0	>2.0	200	N	N	N	100	200	N	N	N
84LL109C	43 24 34	73 48 49	1.00	2.00	5.0	>2.0	200	N	N	N	100	N	N	N	N
84LL110C	43 24 48	73 53 30	.50	5.00	5.0	>2.0	200	N	N	N	150	N	N	N	N
84LL112C	43 29 14	73 53 5	1.00	5.00	5.0	>2.0	500	N	N	N	200	N	2	N	N
84LL113C	43 29 41	73 48 45	1.00	3.00	5.0	>2.0	200	N	N	N	150	N	N	N	N
84LL114C	43 28 13	73 47 5	1.00	2.00	5.0	>2.0	200	N	N	N	200	N	N	N	N
84LL115C	43 28 12	73 45 13	.70	2.00	5.0	>2.0	200	N	N	N	700	N	N	N	N
84LL200C	43 24 31	73 57 38	1.00	5.00	5.0	>2.0	500	N	N	N	150	N	2	N	N
84LL201C	43 24 53	73 58 53	1.00	5.00	5.0	>2.0	500	N	N	N	100	N	N	N	N
84LL202C	43 26 7	73 57 34	1.00	10.00	5.0	2.0	500	N	N	N	150	N	2	N	N
84LL203C	43 27 16	73 58 42	1.00	10.00	5.0	2.0	500	N	N	N	100	N	2	N	N
84LL204C	43 27 26	73 57 15	1.00	5.00	5.0	>2.0	500	N	N	N	100	N	2	N	N
84LL205C	43 27 53	73 56 11	1.00	10.00	5.0	1.5	500	N	N	N	100	200	2	N	N
84LL206C	43 18 49	73 54 17	1.50	5.00	5.0	>2.0	500	N	N	N	100	N	N	N	N
84LL207C	43 18 41	73 57 42	1.00	5.00	10.0	2.0	700	N	N	N	50	200	<2	N	N
84LL208C	43 20 59	73 59 57	1.00	5.00	10.0	2.0	700	N	N	N	100	N	<2	N	N
84LL209C	43 22 6	73 55 16	1.00	5.00	10.0	2.0	700	N	N	N	100	N	<2	N	N
84LL210C	43 16 5	73 57 12	1.00	5.00	7.0	2.0	500	N	N	N	100	N	<2	N	N
84LL211C	43 16 1	73 57 22	1.00	5.00	7.0	>2.0	500	N	N	N	100	N	<2	N	N
84LL212C	43 17 44	73 54 18	1.00	5.00	10.0	>2.0	500	N	N	N	200	N	<2	N	N
84LN100C	43 14 24	72 59 52	1.00	1.00	10.0	>2.0	200	N	N	N	100	N	N	N	N
84LN101C	43 6 4	72 51 53	.20	<.05	10.0	>2.0	100	N	N	N	<20	N	N	N	N
84LN102C	43 5 50	72 51 45	.20	.05	10.0	>2.0	100	N	N	N	<20	N	N	N	N
84LN103C	43 4 10	72 52 1	.20	.10	5.0	>2.0	100	N	N	N	20	N	N	N	N
84LN104C	43 5 52	72 47 19	.50	.50	5.0	>2.0	100	N	N	N	20	N	N	N	10
84LN105C	43 8 0	72 49 20	.30	.50	7.0	>2.0	150	N	N	N	20	N	N	N	N
84LN106C	43 6 3	72 51 3	.30	.10	5.0	>2.0	150	N	N	N	<20	N	N	N	N
84LN107C	43 14 36	72 53 45	.50	2.00	10.0	>2.0	200	N	N	N	50	N	N	N	20
84LN200C	43 11 45	72 59 36	.20	.10	5.0	>2.0	150	N	N	N	<20	N	N	N	N
84LN201C	43 14 13	72 51 27	.50	5.00	5.0	>2.0	150	N	N	N	50	N	N	20	N
84LN202C	43 12 33	72 46 25	.20	.20	3.0	>2.0	150	N	N	N	<20	N	2	N	N
84LN203C	43 11 4	72 51 17	.50	1.00	5.0	>2.0	200	N	N	N	50	N	N	N	N
84LN204C	43 10 18	72 49 54	.70	2.00	5.0	>2.0	200	N	N	N	50	N	N	N	N
84LN205C	43 12 5	72 52 18	.70	1.00	5.0	>2.0	200	N	N	N	50	N	N	N	N
84LN206C	43 10 17	72 53 29	.70	.70	5.0	>2.0	200	N	N	N	20	N	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84KP109C	30	10	100	N	150	N	30	N	10	20	200	100	N	300	N
84KP110C	30	10	100	N	100	N	<20	N	10	20	200	100	N	300	N
84LL100C	70	10	150	N	70	N	20	N	10	<20	N	150	N	200	N
84LL101C	70	10	100	N	70	N	30	N	20	N	N	150	N	500	N
84LL102C	20	<10	100	N	70	N	30	N	20	N	N	100	N	500	N
84LL103C	70	<10	1,500	N	50	N	30	N	50	N	N	150	N	500	N
84LL104C	70	<10	100	N	50	N	20	N	10	20	N	150	N	300	N
84LL105C	N	<10	50	N	<50	N	<20	N	10	N	200	150	N	100	N
84LL106C	20	<10	100	N	50	N	30	N	10	100	N	150	N	500	N
84LL107C	50	<10	100	N	<50	N	30	N	10	100	N	150	N	500	N
84LL108C	50	<10	150	N	N	N	20	N	10	N	N	150	N	300	N
84LL109C	20	<10	50	N	N	N	<20	N	10	N	200	100	N	300	N
84LL110C	50	<10	100	N	50	N	<20	N	10	70	N	100	N	150	N
84LL112C	70	<10	150	N	70	N	<20	N	10	20	N	150	N	200	N
84LL113C	70	<10	150	N	70	N	20	N	10	70	N	150	100	300	N
84LL114C	50	10	150	N	70	N	70	N	10	100	200	150	N	500	N
84LL115C	70	10	150	N	70	N	<20	N	20	<20	200	150	N	500	N
84LL200C	70	<10	50	N	50	N	<20	N	10	1,500	N	150	N	150	N
84LL201C	70	10	200	N	70	N	<20	N	10	N	N	150	N	200	N
84LL202C	50	<10	N	N	<50	N	N	N	10	N	N	100	N	50	N
84LL203C	50	<10	N	N	50	N	N	N	10	N	N	100	N	50	N
84LL204C	50	<10	N	N	50	N	N	N	10	N	N	150	200	70	N
84LL205C	70	<10	N	N	N	N	N	N	10	N	N	100	300	100	N
84LL206C	70	<10	50	N	50	N	<20	N	10	50	N	150	N	200	N
84LL207C	50	<10	50	N	70	N	<20	N	10	N	N	150	N	200	N
84LL208C	50	<10	150	N	<50	N	<20	N	10	N	N	100	N	150	N
84LL209C	50	<10	100	N	50	N	<20	N	10	N	N	100	N	150	N
84LL210C	70	<10	500	N	70	N	20	N	10	N	N	150	150	200	N
84LL211C	70	10	500	N	50	N	<20	N	10	70	N	150	N	200	N
84LL212C	70	10	150	N	70	N	<20	N	10	N	N	150	N	300	N
84LN100C	20	10	500	N	70	N	<20	N	10	<20	N	150	N	700	N
84LN101C	N	10	50	N	70	N	<20	N	10	N	200	100	N	500	N
84LN102C	N	<10	50	N	N	N	20	N	10	N	N	70	N	700	N
84LN103C	20	10	50	N	50	N	20	N	10	N	N	70	N	500	N
84LN104C	20	10	50	N	<50	N	500	N	10	150	200	70	N	200	N
84LN105C	50	15	200	N	50	N	30	N	10	20	200	100	N	300	N
84LN106C	20	10	50	N	50	N	20	N	10	N	200	50	N	500	N
84LN107C	20	50	200	N	70	N	20	N	10	50	N	150	N	500	N
84LN200C	50	10	150	N	<50	N	<20	N	10	N	200	150	N	500	N
84LN201C	20	10	100	N	70	N	20	N	10	70	N	100	N	300	N
84LN202C	20	10	50	N	N	N	50	N	10	N	N	70	N	300	N
84LN203C	20	10	200	N	50	N	<20	N	10	<20	200	100	N	500	N
84LN204C	20	50	200	N	70	N	20	N	10	20	200	100	N	300	N
84LN205C	20	10	500	N	<50	N	<20	N	10	<20	200	100	N	500	N
84LN206C	50	20	500	N	70	N	20	N	10	20	200	150	N	500	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84LN207C	43 9 48	72 54 9	.70	.20	5.0	>2.0	200	N	N	N	20	N	N	N	N
84LN208C	43 8 25	72 56 6	.50	.05	5.0	>2.0	150	N	N	N	20	N	N	N	N
84LN209C	43 9 2	72 50 31	.70	.50	10.0	>2.0	200	N	N	N	20	N	N	N	N
84LN210C	43 3 53	72 46 6	.70	1.00	10.0	>2.0	200	N	N	N	50	N	N	N	20
84LN211C	43 1 58	72 46 48	.70	.10	5.0	>2.0	200	N	N	N	50	N	N	<20	20
84LN212C	43 1 8	72 50 0	.70	.07	10.0	2.0	100	7	N	N	20	N	N	N	50
84LN213C	43 1 33	72 51 9	.50	.05	10.0	2.0	100	N	N	N	20	N	2	N	30
84LN214C	43 1 9	72 52 57	.20	<.05	10.0	>2.0	100	N	N	N	30	N	2	N	N
84LN215C	43 1 45	72 53 26	.50	.05	5.0	>2.0	100	N	N	N	70	N	N	N	N
84LN216C	43 3 6	72 53 30	.10	.05	5.0	>2.0	100	N	N	N	<20	N	2	N	N
84LN217C	43 3 41	72 58 10	.50	.05	10.0	>2.0	200	N	N	N	<20	N	N	N	N
84LN218C	43 3 42	72 59 18	.20	.05	5.0	>2.0	200	N	N	N	20	N	N	N	N
84MA100C	43 8 21	73 5 43	1.50	1.50	7.0	>2.0	200	N	N	N	300	1,000	N	N	N
84MA101C	43 9 28	73 2 28	1.00	1.00	2.0	>2.0	100	N	N	N	1,000	500	N	N	N
84MA102C	43 9 42	73 2 0	.50	1.00	5.0	>2.0	150	N	N	N	500	300	N	N	N
84MA103C	43 14 29	73 6 31	.70	.50	15.0	>2.0	150	N	N	N	200	700	N	N	N
84MA104C	43 6 5	73 14 14	.50	.20	10.0	>2.0	100	N	N	N	150	700	N	N	N
84MA105C	43 12 2	73 5 35	1.00	.50	5.0	>2.0	200	N	N	N	500	500	N	N	N
84MA106C	43 12 6	73 3 31	7.00	2.00	5.0	>2.0	200	N	N	N	1,500	500	N	N	50
84MA107C	43 11 18	73 3 30	7.00	.70	5.0	>2.0	150	N	N	N	500	500	N	N	30
84MA108C	43 11 11	73 0 19	1.50	2.00	7.0	>2.0	200	N	N	N	500	200	N	N	N
84MA109C	43 11 23	73 1 3	1.50	5.00	5.0	>2.0	200	N	N	N	500	200	N	N	N
84MA110C	43 14 22	73 0 16	1.50	.50	5.0	>2.0	100	N	N	N	500	700	N	N	N
84MD100C	43 29 9	73 7 1	.20	.20	5.0	1.0	100	N	N	N	70	200	N	N	N
84MD101C	43 29 8	73 5 55	.20	.05	7.0	1.5	100	N	N	N	70	200	N	N	N
84MD102C	43 24 43	73 2 58	.10	.10	7.0	2.0	50	N	N	N	200	<50	N	N	N
84MD103C	43 23 28	73 0 27	.20	.10	5.0	2.0	20	N	N	N	200	<50	N	N	N
84MD104C	43 22 38	73 0 38	.20	.10	7.0	2.0	50	N	N	N	200	<50	N	N	N
84MD105C	43 25 5	73 0 4	.20	.10	10.0	1.5	100	N	N	N	50	<50	N	N	N
84MD106C	43 28 12	73 6 56	.20	.20	7.0	2.0	100	N	N	N	100	<50	N	N	N
84MD107C	43 27 42	73 6 57	.20	.20	7.0	2.0	100	N	N	N	200	<50	N	N	N
84MD108C	43 25 52	73 6 32	.50	.10	7.0	2.0	100	N	N	N	200	<50	N	N	N
84MD109C	43 28 13	73 4 32	.10	.10	7.0	2.0	50	N	N	N	200	<50	N	N	N
84MD110C	43 28 39	73 3 57	5.00	.05	7.0	2.0	50	N	N	N	100	<50	N	N	20
84MD111C	43 22 56	73 5 23	1.00	.10	10.0	2.0	100	N	N	N	50	<50	N	N	N
84MD112C	43 23 0	73 5 16	1.00	.50	7.0	2.0	100	N	N	N	100	200	N	N	N
84MS400C	43 41 42	72 10 47	.50	.20	5.0	2.0	200	N	N	N	50	500	N	N	N
84MS401C	43 37 34	72 1 24	.30	.05	5.0	2.0	200	N	N	N	20	700	N	N	N
84NC100C	43 40 45	73 46 33	.20	.20	5.0	1.5	50	N	N	N	50	500	N	N	N
84NC101C	43 43 34	73 46 0	.20	.20	2.0	1.5	50	N	N	N	50	500	N	N	N
84NC102C	43 44 52	73 50 34	.50	2.00	5.0	1.5	100	N	N	N	20	500	N	N	N
84NC103C	43 44 13	73 50 18	.30	.50	2.0	1.0	70	N	N	N	20	700	N	N	N
84NC104C	43 41 54	73 51 7	.30	.50	2.0	1.0	50	N	N	N	20	700	N	N	N
84NC105C	43 42 52	73 53 3	.30	1.00	5.0	1.5	70	N	N	N	70	700	N	N	N
84NC106C	43 44 13	73 55 12	.30	2.00	5.0	1.5	100	N	N	N	70	300	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84LN207C	20	10	150	N	N	N	20	N	10	N	200	100	N	500	N
84LN208C	50	10	50	N	N	N	20	N	10	70	200	70	N	500	N
84LN209C	50	20	500	N	70	N	<20	N	10	<20	200	100	N	500	N
84LN210C	50	10	150	N	70	N	20	N	10	<20	500	100	N	500	N
84LN211C	20	20	N	N	<50	N	<20	N	10	20	200	50	N	200	N
84LN212C	20	<10	N	N	N	N	<20	N	10	N	200	30	N	200	N
84LN213C	20	<10	N	N	N	N	20	N	10	N	500	30	N	500	N
84LN214C	N	<10	N	N	50	N	20	N	10	N	500	30	N	700	N
84LN215C	N	10	N	N	70	N	20	N	N	70	N	30	N	500	N
84LN216C	N	10	N	N	70	N	20	N	N	N	N	50	N	700	N
84LN217C	N	20	N	N	150	N	20	N	N	N	N	70	N	500	N
84LN218C	50	20	150	N	N	N	20	N	N	N	N	70	N	500	N
84MA100C	150	10	200	N	N	N	100	N	30	<20	300	70	N	200	N
84MA101C	150	15	150	N	N	N	50	N	50	N	N	70	N	700	N
84MA102C	70	15	200	N	N	N	50	N	50	N	N	70	N	700	N
84MA103C	150	15	150	N	50	N	70	N	N	N	1,000	70	N	300	N
84MA104C	150	15	100	N	N	N	150	N	30	150	700	30	N	200	N
84MA105C	150	15	200	N	50	N	20	N	30	N	300	70	N	200	N
84MA106C	150	20	200	N	N	N	50	N	30	50	200	70	N	200	N
84MA107C	150	100	200	N	N	N	100	N	20	N	200	50	N	100	N
84MA108C	70	50	150	N	N	N	70	N	20	30	200	100	N	300	N
84MA109C	70	200	150	N	N	N	150	N	20	<20	200	100	N	200	N
84MA110C	150	10	150	N	N	N	150	N	20	N	200	70	N	200	N
84MD100C	70	<10	50	N	N	N	200	N	10	20	200	20	N	150	N
84MD101C	50	<10	50	N	N	N	100	N	30	N	300	20	N	500	N
84MD102C	70	<10	50	N	N	N	20	N	30	N	300	20	N	500	N
84MD103C	50	100	50	N	N	N	70	N	50	N	N	20	N	700	N
84MD104C	70	<10	50	N	N	N	200	N	30	N	300	20	N	500	N
84MD105C	50	10	70	N	N	N	20	N	20	N	500	20	N	500	N
84MD106C	100	700	50	15	N	N	700	N	20	700	500	20	N	300	N
84MD107C	70	10	50	N	N	N	20	N	20	20	500	20	N	200	N
84MD108C	50	<10	50	N	N	N	100	N	20	N	700	20	N	300	N
84MD109C	70	<10	50	N	N	N	70	N	30	N	500	20	N	300	N
84MD110C	70	<10	50	N	N	N	200	N	30	30	300	20	N	300	N
84MD111C	70	<10	70	N	N	N	20	N	N	N	700	20	N	500	N
84MD112C	100	50	70	<10	N	N	100	N	30	N	500	50	N	500	1,000
84MS400C	150	<10	50	N	100	N	N	N	10	N	300	70	N	50	N
84MS401C	50	<10	<50	N	N	N	<20	N	10	N	200	50	N	100	N
84NC100C	70	<10	100	N	N	N	20	N	20	N	N	70	N	300	N
84NC101C	50	<10	50	N	N	N	N	N	10	N	200	50	N	100	N
84NC102C	50	<10	50	N	N	N	N	N	10	N	500	70	N	70	N
84NC103C	50	<10	50	N	N	N	N	N	10	N	200	20	N	70	N
84NC104C	50	<10	50	N	N	N	N	N	10	N	200	30	N	150	N
84NC105C	70	10	50	N	N	N	N	N	10	N	200	50	N	200	N
84NC106C	70	10	100	N	N	N	N	N	10	20	200	50	N	200	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84NC107C	43 41 45	73 57 45	.30	2.00	5.0	1.0	100	N	N	N	100	700	N	N	N
84NC108C	43 42 32	73 56 9	.50	2.00	5.0	1.5	100	N	N	N	100	700	N	N	N
84NC109C	43 41 43	73 54 54	.30	1.00	5.0	1.0	100	N	N	N	50	700	N	N	N
84NC110C	43 39 47	73 55 36	.50	5.00	7.0	1.5	200	N	N	N	200	300	N	N	N
84NC111C	43 40 17	73 53 8	.50	2.00	7.0	1.5	200	N	N	N	100	200	N	N	N
84NC112C	43 38 6	73 51 31	.20	1.00	5.0	1.5	150	N	N	N	50	300	N	N	N
84NC113C	43 39 5	73 59 46	.70	7.00	7.0	1.5	500	N	N	N	200	200	N	N	N
84NC114C	43 36 59	73 58 31	.30	5.00	10.0	1.5	300	N	N	N	70	200	N	N	N
84NC115C	43 36 20	73 58 49	.20	1.00	5.0	1.5	100	N	N	N	70	700	N	N	N
84NC116C	43 35 3	73 59 0	.30	5.00	10.0	1.5	150	N	N	N	70	200	N	N	N
84NC117C	43 34 54	73 58 44	.20	5.00	5.0	2.0	150	N	N	N	70	<50	N	N	N
84NC118C	43 37 44	73 56 46	.10	1.00	10.0	2.0	150	N	N	N	100	<50	N	N	N
84NC119C	43 36 40	73 53 32	.20	5.00	10.0	2.0	200	N	N	N	200	<50	N	N	N
84NC120C	43 31 40	73 55 40	.50	10.00	10.0	1.0	300	N	N	N	70	1,000	2	N	N
84NC121C	43 32 33	73 59 40	.50	10.00	10.0	1.0	300	N	N	N	50	<50	N	N	N
84NC122C	43 33 32	73 55 32	.50	5.00	7.0	1.5	200	N	N	N	100	100	N	N	N
84NC123C	43 33 41	73 55 23	.30	5.00	7.0	1.5	150	N	N	N	200	50	N	N	N
84NC124C	43 34 13	73 54 22	.20	2.00	10.0	2.0	150	N	N	N	300	<50	N	N	N
84NC125C	43 33 59	73 53 43	.20	1.00	5.0	1.0	70	N	N	N	100	200	N	N	N
84NC126C	43 31 0	73 51 19	.50	10.00	10.0	1.0	200	N	N	N	200	<50	N	N	N
84NC127C	43 31 5	73 54 22	.50	10.00	10.0	2.0	300	N	N	N	200	<50	N	N	N
84NC128C	43 32 3	73 52 6	.30	5.00	5.0	2.0	200	N	N	N	100	<50	N	N	N
84NC129C	43 32 42	73 51 18	.30	1.00	5.0	2.0	150	N	N	N	30	<50	N	N	N
84NC130C	43 35 44	73 49 42	.30	.20	5.0	1.0	50	N	N	N	30	150	N	N	N
84NC131C	43 34 27	73 45 15	.15	1.00	5.0	2.0	70	N	N	N	70	50	N	N	N
84PA200C	43 21 16	73 9 11	1.00	.10	7.0	2.0	100	N	N	N	100	700	N	N	30
84PA201C	43 20 7	73 9 20	1.00	.10	5.0	2.0	100	N	N	N	70	5,000	N	N	N
84PA202C	43 18 21	73 8 16	5.00	.10	7.0	2.0	100	N	N	N	70	200	N	N	20
84PA203C	43 16 50	73 8 35	1.00	.20	7.0	2.0	100	5	N	N	70	500	N	30	70
84PA204C	43 16 37	73 13 35	1.00	.20	5.0	>2.0	150	N	N	N	100	200	N	N	N
84PA205C	43 18 14	73 14 3	1.00	.50	5.0	>2.0	200	N	N	N	100	1,500	N	N	N
84PA206C	43 18 14	73 14 3	1.00	.20	5.0	>2.0	100	N	N	N	100	700	N	N	N
84PL200C	43 45 36	73 31 0	.50	1.00	5.0	>2.0	200	N	N	N	100	50	N	N	N
84PL201C	43 47 54	73 32 12	.20	1.00	2.0	>2.0	200	N	N	N	100	100	N	N	N
84PL202C	43 48 3	73 31 49	.50	2.00	5.0	>2.0	200	N	N	N	500	<50	N	N	N
84PL203C	43 45 3	73 41 3	1.00	.50	2.0	1.5	200	N	N	N	<20	200	N	N	N
84PL204C	43 46 35	73 41 17	.70	.50	2.0	1.5	200	N	N	N	50	200	2	N	N
84PL205C	43 49 8	73 44 23	.20	.70	10.0	2.0	200	N	N	N	50	70	N	N	N
84PL206C	43 51 25	73 42 46	.50	2.00	7.0	>2.0	200	N	N	N	500	100	N	N	N
84PL207C	43 55 36	73 44 18	.50	1.00	7.0	2.0	100	N	N	N	20	50	N	N	N
84PL208C	43 57 17	73 43 4	.70	1.50	10.0	>2.0	200	N	N	N	20	<50	N	N	N
84PL209C	43 54 57	73 38 7	.50	1.50	7.0	>2.0	200	N	N	N	700	<50	N	N	N
84PL210C	43 54 38	73 39 47	.50	1.00	7.0	>2.0	200	N	N	N	20	70	N	N	N
84PL211C	43 56 2	73 35 38	.50	2.00	7.0	>2.0	200	N	N	N	200	50	N	N	N
84PL212C	43 56 10	73 32 15	.50	2.00	7.0	>2.0	200	N	N	N	150	50	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84NC107C	50	<10	50	N	N	N	N	N	10	N	200	20	N	100	N
84NC108C	70	10	100	N	N	N	N	N	10	30	200	50	N	200	N
84NC109C	50	<10	50	N	N	N	N	N	10	N	200	50	N	100	N
84NC110C	100	10	50	N	N	N	N	N	10	20	N	70	N	150	N
84NC111C	70	10	150	N	N	N	N	N	10	20	N	70	N	200	N
84NC112C	20	<10	100	N	N	N	N	N	10	N	N	30	N	150	N
84NC113C	70	<10	70	N	N	N	N	N	10	20	N	70	N	100	N
84NC114C	100	10	100	N	N	N	<20	N	10	N	N	70	N	200	N
84NC115C	50	<10	50	N	N	N	N	N	10	20	N	50	N	100	N
84NC116C	50	<10	50	N	N	N	N	N	10	N	N	20	N	50	N
84NC117C	100	10	<50	N	N	N	N	N	10	N	N	100	N	70	N
84NC118C	100	<10	200	N	N	N	20	N	20	20	N	100	N	500	N
84NC119C	100	10	100	N	N	N	N	N	10	N	N	100	N	200	N
84NC120C	50	<10	50	20	N	N	N	N	10	20	N	50	N	50	N
84NC121C	50	<10	50	N	N	N	N	N	10	N	N	50	N	50	N
84NC122C	50	<10	50	N	N	N	N	N	10	N	200	50	N	50	N
84NC123C	50	<10	50	N	N	N	N	N	10	N	200	70	N	100	N
84NC124C	100	10	150	N	N	N	N	N	10	N	N	100	N	200	N
84NC125C	20	<10	50	N	N	N	N	N	10	N	200	50	N	70	N
84NC126C	50	<10	50	<10	N	N	N	N	10	N	200	50	N	70	N
84NC127C	50	<10	50	N	N	N	N	N	10	N	200	70	N	70	N
84NC128C	50	<10	50	N	N	N	N	N	10	N	N	70	N	100	N
84NC129C	70	10	100	N	N	N	N	N	10	N	N	100	N	150	N
84NC130C	20	<10	50	N	N	N	N	N	10	50	200	20	N	150	N
84NC131C	70	<10	50	N	N	N	N	N	10	N	N	100	N	150	N
84PA200C	70	20	50	N	N	N	70	N	10	N	700	20	N	300	N
84PA201C	70	10	50	N	N	N	1,000	N	10	N	700	20	N	300	N
84PA202C	70	300	100	N	N	N	50	N	15	N	1,000	20	N	200	N
84PA203C	50	10	50	N	50	N	10,000	N	10	50	500	20	N	200	N
84PA204C	150	10	50	N	N	N	200	500	20	N	200	50	N	200	N
84PA205C	100	50	50	N	50	N	200	1,500	20	>2,000	500	20	N	200	N
84PA206C	100	10	50	N	N	N	150	N	20	200	300	20	N	300	N
84PL200C	50	10	100	N	<50	N	20	N	30	N	N	150	N	500	N
84PL201C	20	10	100	N	70	N	20	N	10	N	N	100	N	200	N
84PL202C	70	10	150	N	100	N	20	N	10	N	N	150	N	500	N
84PL203C	N	<10	1,000	N	N	N	20	N	10	N	N	50	N	300	N
84PL204C	N	<10	100	N	50	N	N	N	10	N	N	50	N	300	N
84PL205C	20	10	150	N	N	N	30	N	10	N	N	100	N	500	N
84PL206C	50	10	150	N	70	N	100	N	10	N	N	100	N	200	N
84PL207C	N	<10	200	N	N	N	20	N	10	N	200	100	N	500	N
84PL208C	N	10	200	N	50	N	N	N	10	N	200	100	N	200	N
84PL209C	50	15	200	N	<50	N	20	N	10	N	N	200	N	500	N
84PL210C	50	10	100	N	N	N	N	N	10	N	200	100	N	100	N
84PL211C	50	10	100	N	<50	N	20	N	10	<20	N	150	N	200	N
84PL212C	50	100	100	N	<50	N	20	N	10	N	N	150	N	300	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84PL213C	43 57 35	73 30 42	1.00	2.00	7.0	>2.0	500	N	N	N	150	50	N	N	N
84PL214C	43 54 5	73 33 10	.20	.20	1.0	.7	200	N	N	N	<20	50	N	N	N
84PL215C	43 53 54	73 34 18	.20	1.00	5.0	>2.0	100	N	N	N	200	50	N	N	N
84PL216C	43 54 6	73 33 11	.50	2.00	10.0	>2.0	200	N	N	N	1,000	<50	N	N	N
84PL217C	43 52 3	73 31 57	1.00	1.00	2.0	>2.0	200	N	N	N	100	70	N	N	N
84PL218C	43 59 15	73 39 5	.50	.50	5.0	2.0	200	N	N	N	<20	100	N	N	N
84PL219C	43 59 17	73 39 39	1.00	.50	10.0	1.0	100	N	N	N	<20	200	N	N	N
84PL220C	43 58 31	73 42 52	.50	1.00	10.0	2.0	200	N	N	N	<20	50	N	N	N
84PL221C	43 58 6	73 43 43	1.00	1.00	10.0	>2.0	200	N	N	N	<20	50	N	N	N
84PO200C	43 33 20	73 9 25	.70	.20	5.0	>2.0	200	N	N	N	500	700	N	N	N
84PO201C	43 32 14	73 12 33	.70	.50	5.0	>2.0	200	N	N	N	200	200	N	N	N
84PO202C	43 31 44	73 11 37	1.00	.50	5.0	>2.0	200	N	N	N	150	N	N	N	N
84PO203C	43 31 30	73 9 55	.50	.70	7.0	>2.0	200	N	N	N	200	700	N	N	N
84PO204C	43 30 54	73 9 41	1.50	.50	5.0	>2.0	200	5	N	N	1,000	7,000	N	<20	N
84PO205C	43 34 25	73 11 10	1.50	1.00	5.0	>2.0	200	N	1,000	N	200	5,000	N	N	10
84PO206C	43 36 21	73 7 37	2.00	1.00	7.0	>2.0	200	N	N	N	50	>10,000	N	N	50
84PO207C	43 35 55	73 10 9	1.00	1.00	5.0	>2.0	200	N	N	N	150	3,000	N	N	N
84PO208C	43 31 26	73 10 28	1.00	.20	5.0	>2.0	200	N	N	N	70	N	N	N	N
84PP100C	43 38 1	72 52 12	.20	.50	5.0	>2.0	100	N	N	N	50	N	N	N	N
84PP101C	43 44 1	72 49 14	.50	.10	1.0	.7	100	N	N	N	20	N	N	N	N
84PP102C	43 43 29	72 49 32	.20	.10	10.0	>2.0	100	N	N	N	50	200	N	N	N
84PP103C	43 42 15	72 49 36	.20	.05	5.0	>2.0	100	N	N	N	30	N	N	N	N
84PP104C	43 41 29	72 48 50	.50	1.00	5.0	>2.0	100	N	N	N	50	N	N	N	N
84PP105C	43 41 15	72 47 24	.20	.10	5.0	2.0	100	N	N	N	20	N	N	N	N
84PP106C	43 40 27	72 46 40	.50	.10	1.0	1.0	100	N	N	N	<20	N	N	N	N
84PP107C	43 38 41	72 47 26	.50	1.00	5.0	>2.0	200	N	N	N	100	N	N	N	N
84PP108C	43 38 42	72 47 17	.50	1.00	5.0	>2.0	200	N	N	N	50	200	N	N	20
84PP109C	43 37 40	72 52 18	.20	1.00	5.0	>2.0	100	N	N	N	50	N	N	N	N
84PP110C	43 40 0	72 51 41	.20	.20	5.0	>2.0	100	N	N	N	20	N	N	N	N
84PP111C	43 39 52	72 48 43	.50	1.00	5.0	>2.0	100	N	N	N	50	200	N	N	10
84PR100C	43 41 38	73 2 40	.50	.10	.5	>2.0	100	N	N	N	200	N	2	N	N
84PR101C	43 37 52	73 4 9	1.00	.20	5.0	>2.0	500	N	N	N	200	700	N	N	N
84PR102C	43 39 2	73 4 27	5.00	.20	5.0	>2.0	200	N	N	N	200	N	2	N	50
84PR103C	43 39 35	73 4 27	5.00	.20	5.0	>2.0	200	N	N	N	150	1,500	N	N	30
84PR104C	43 40 46	73 5 7	5.00	.10	5.0	>2.0	100	N	N	N	200	2,000	N	N	70
84PR106C	43 42 39	73 4 10	.50	.20	5.0	>2.0	100	N	N	N	200	N	N	N	N
84PR107C	43 43 26	73 5 37	.50	.05	5.0	>2.0	100	N	N	N	70	N	2	N	N
84PR108C	43 44 24	73 1 12	.50	.10	10.0	>2.0	200	N	N	N	100	N	N	N	N
84PR109C	43 43 26	73 0 23	.50	.20	10.0	>2.0	200	N	N	N	50	N	N	N	N
84PR110C	43 39 43	73 0 6	.50	.10	5.0	>2.0	100	N	N	N	50	N	N	N	N
84PR111C	43 40 49	73 0 33	.50	.50	.5	>2.0	200	N	N	N	200	200	N	N	N
84PR112C	43 42 15	73 0 26	.50	.10	5.0	>2.0	100	N	N	N	70	N	N	N	N
84PU200C	43 38 18	73 27 7	1.00	5.00	10.0	2.0	200	N	N	N	50	70	N	N	N
84PU201C	43 37 21	73 26 49	1.00	1.00	5.0	>2.0	200	N	N	N	50	70	N	N	N
84PU202C	43 40 14	73 29 31	.50	1.00	5.0	>2.0	200	N	N	N	50	100	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84PL213C	50	10	150	N	50	N	<20	N	10	N	N	150	N	300	N
84PL214C	N	<10	N	N	N	N	N	N	10	N	200	20	N	20	N
84PL215C	50	10	100	N	N	N	<20	N	10	N	N	150	N	200	N
84PL216C	100	20	150	N	70	N	30	N	10	50	200	150	N	300	N
84PL217C	50	<10	200	N	70	N	20	N	10	N	N	100	N	200	N
84PL218C	N	<10	50	N	N	N	20	N	10	N	200	50	N	50	N
84PL219C	N	<10	150	N	N	N	<20	N	10	N	500	20	N	100	N
84PL220C	20	10	50	N	N	N	<20	N	10	N	200	50	N	150	N
84PL221C	50	10	50	N	N	N	<20	N	10	N	200	70	N	100	N
84P0200C	70	10	N	N	150	N	30	N	50	N	700	150	N	500	N
84P0201C	50	10	N	N	100	N	30	N	10	N	700	150	N	300	N
84P0202C	70	10	N	N	150	N	30	N	10	30	700	150	N	500	N
84P0203C	70	300	N	N	150	N	70	N	10	20	700	150	N	300	N
84P0204C	70	100	N	N	150	N	2,000	N	20	20	700	150	N	500	N
84P0205C	70	50	N	N	150	N	100	N	10	20	700	150	N	200	N
84P0206C	100	10	N	N	150	N	1,000	N	10	N	1,000	150	N	500	N
84P0207C	70	7,000	N	N	150	N	500	N	10	700	700	150	N	300	N
84P0208C	300	100	N	N	150	N	100	N	10	20	700	150	N	500	N
84PP100C	20	10	N	N	70	N	20	N	10	70	200	100	N	300	N
84PP101C	N	<10	N	N	N	N	N	N	10	N	N	20	N	20	N
84PP102C	50	10	50	N	N	N	20	N	10	N	500	100	N	1,000	N
84PP103C	70	10	N	N	N	N	20	N	20	N	300	150	N	700	N
84PP104C	50	20	70	N	50	N	700	N	10	N	500	150	N	500	N
84PP105C	N	<10	N	N	<50	N	N	N	10	N	300	50	N	200	N
84PP106C	N	<10	N	N	N	N	N	N	10	N	N	20	N	50	N
84PP107C	70	20	150	N	70	N	20	N	10	30	300	150	N	500	N
84PP108C	70	20	100	N	50	N	30	N	10	70	300	150	N	500	N
84PP109C	70	20	N	N	70	N	20	N	20	N	N	150	N	500	N
84PP110C	70	10	N	N	N	N	30	N	20	N	700	70	N	500	N
84PP111C	50	10	N	N	50	N	70	N	10	N	200	100	N	300	N
84PR100C	70	10	N	N	200	N	20	N	20	N	N	150	N	300	N
84PR101C	100	10	700	N	150	N	200	N	20	N	200	150	N	300	N
84PR102C	70	70	300	N	100	200	20	N	10	N	200	150	N	300	N
84PR103C	70	200	150	N	100	70	700	N	10	N	200	150	N	300	N
84PR104C	50	70	N	N	100	70	150	N	10	N	200	150	N	300	N
84PR106C	70	10	N	N	150	N	30	N	10	N	200	150	N	500	N
84PR107C	70	10	N	N	150	N	50	N	20	70	N	150	N	300	N
84PR108C	50	10	100	N	150	N	70	N	10	N	700	100	N	700	N
84PR109C	70	20	150	N	100	N	50	N	10	N	1,000	150	N	1,000	N
84PR110C	70	15	150	N	100	N	20	N	50	N	200	150	N	700	N
84PR111C	50	10	1,000	N	50	N	N	N	N	N	N	50	N	200	N
84PR112C	100	20	N	N	100	N	500	200	20	1,500	500	150	N	700	N
84PU200C	50	<10	50	N	N	N	30	N	10	20	200	100	N	200	N
84PU201C	50	10	150	N	50	N	<20	N	10	N	200	100	N	200	N
84PU202C	70	10	100	N	<50	N	<20	N	10	<20	200	150	N	200	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84PU203C	43 39 15	73 29 30	.20	.50	2.0	1.0	50	N	N	N	<20	100	N	N	N
84PU205C	43 39 46	73 25 38	.50	1.00	5.0	>2.0	200	N	N	N	50	70	N	N	N
84PU206C	43 40 44	73 25 4	.50	.20	1.0	1.0	50	N	N	N	<20	100	N	N	N
84PU207C	43 41 10	73 27 15	.50	1.50	5.0	>2.0	500	N	N	N	100	50	N	N	N
84PU208C	43 43 52	73 27 28	.50	2.00	5.0	>2.0	200	N	N	N	200	<50	N	N	N
84RA400C	43 58 17	72 44 49	1.00	.10	20.0	2.0	200	N	N	N	100	<50	N	N	N
84RL100C	43 30 38	72 58 2	.20	1.00	5.0	>2.0	150	N	N	N	1,000	N	N	N	N
84RL101C	43 31 14	72 59 8	.20	.50	5.0	>2.0	200	N	N	N	200	N	N	N	N
84RL102C	43 33 23	72 52 56	.20	2.00	5.0	>2.0	300	N	N	N	2,000	N	N	N	N
84RL103C	43 30 11	72 54 1	.50	1.50	7.0	>2.0	150	N	N	N	5,000	N	N	N	N
84RL104C	43 32 50	72 57 26	1.00	2.00	5.0	>2.0	200	N	N	N	2,000	N	N	N	N
84RL105C	43 36 47	72 53 25	.70	5.00	10.0	>2.0	200	N	N	N	500	500	N	N	N
84RL106C	43 34 23	72 54 34	.50	.50	5.0	>2.0	100	N	N	N	300	200	N	N	N
84RL107C	43 34 27	72 54 36	.50	1.00	7.0	>2.0	100	N	N	N	200	300	N	N	N
84RT100C	43 36 23	73 5 44	1.00	.50	10.0	>2.0	200	N	N	N	70	2,000	N	N	N
84RT101C	43 35 17	73 2 56	1.00	.50	5.0	>2.0	200	N	N	N	70	1,500	N	N	N
84RT102C	43 34 26	73 3 2	2.00	.70	10.0	>2.0	200	N	N	N	200	2,000	N	N	50
84RT103C	43 34 24	73 2 9	1.00	.50	5.0	>2.0	150	N	N	N	200	N	N	N	N
84RT104C	43 32 44	73 3 29	1.50	2.00	5.0	>2.0	200	N	N	N	200	N	N	N	50
84RT105C	43 32 14	73 4 20	1.00	.50	5.0	>2.0	200	N	N	N	100	1,000	N	N	N
84RT106C	43 31 26	73 4 26	2.00	.50	7.0	>2.0	150	N	N	N	200	2,000	N	N	10
84RT107C	43 30 36	73 6 57	.50	.50	7.0	>2.0	200	N	N	N	200	N	N	N	N
84RT108C	43 32 20	73 1 19	.50	.70	5.0	>2.0	150	7	N	>1,000	150	N	N	N	N
84RT109C	43 30 43	73 1 19	1.00	2.00	7.0	>2.0	200	N	N	N	500	N	N	N	N
84SA100C	43 13 23	73 51 8	2.00	5.00	5.0	>2.0	700	N	N	N	100	N	2	N	10
84SA101C	43 12 17	73 53 5	5.00	5.00	5.0	>2.0	1,000	N	N	N	50	N	N	N	20
84SA102C	43 11 30	73 54 18	7.00	5.00	5.0	1.0	2,000	N	N	N	200	N	2	N	30
84SA103C	43 10 43	73 54 19	5.00	5.00	5.0	>2.0	1,000	N	N	N	150	N	2	N	30
84SA104C	43 9 2	73 53 3	5.00	5.00	5.0	>2.0	1,000	N	N	N	100	N	2	N	30
84SA105C	43 9 2	73 53 21	2.00	5.00	5.0	>2.0	1,000	N	N	N	700	N	N	N	20
84SA106C	43 6 39	73 55 39	5.00	2.00	5.0	>2.0	1,500	N	N	N	200	200	N	N	20
84SA107C	43 6 11	73 59 55	5.00	2.00	5.0	>2.0	1,000	N	N	N	200	N	N	N	20
84SA108C	43 4 48	73 58 6	5.00	2.00	5.0	>2.0	1,000	N	N	N	200	N	<2	N	20
84SA109C	43 10 39	73 59 30	5.00	2.00	5.0	2.0	1,000	N	N	N	200	N	2	N	30
84SA110C	43 8 57	73 58 7	5.00	5.00	5.0	1.0	2,000	N	N	N	500	N	<2	N	30
84SA200C	43 8 57	73 51 18	2.00	2.00	5.0	>2.0	700	N	N	N	100	N	N	N	10
84SA201C	43 9 10	73 46 32	5.00	5.00	5.0	2.0	1,000	N	N	N	200	N	2	N	30
84SA202C	43 10 33	73 45 35	2.00	2.00	5.0	>2.0	700	N	N	N	20	N	N	N	10
84SA203C	43 8 22	73 46 14	5.00	1.00	2.0	>2.0	500	N	N	N	100	N	N	N	150
84SA205C	43 8 13	73 48 37	2.00	2.00	5.0	>2.0	700	N	N	N	100	N	N	N	N
84SD100C	43 3 44	73 0 4	1.50	.15	7.0	>2.0	300	N	N	N	200	300	N	N	N
84SD101C	43 3 13	73 1 16	1.50	.20	7.0	2.0	300	N	N	N	700	200	N	N	N
84SD102C	43 3 9	73 2 22	2.00	1.00	7.0	>2.0	500	N	N	N	500	500	N	N	N
84SD103C	43 3 10	73 3 17	1.50	.20	7.0	>2.0	500	N	N	N	700	500	N	N	N
84SD104C	43 3 14	73 3 16	1.50	.20	7.0	>2.0	500	N	N	N	700	500	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84PU203C	N	<10	100	N	N	N	<20	N	10	N	200	20	N	50	N
84PU205C	100	20	150	N	100	N	20	N	10	100	N	200	N	300	N
84PU206C	N	<10	N	N	N	N	N	N	10	N	N	20	N	20	N
84PU207C	70	10	100	N	70	N	<20	N	10	20	200	100	N	200	N
84PU208C	50	20	150	N	50	N	500	N	30	70	200	100	N	500	N
84RA400C	70	10	50	N	N	N	20	N	N	N	500	50	N	200	N
84RL100C	100	20	N	N	200	N	50	N	50	30	N	150	N	700	N
84RL101C	70	70	N	N	200	N	200	N	10	70	N	150	N	500	N
84RL102C	70	15	N	N	200	N	20	N	10	20	N	150	N	200	N
84RL103C	70	20	150	N	150	N	500	N	10	70	700	150	N	500	N
84RL104C	100	10	700	N	100	N	20	N	20	N	700	150	N	500	N
84RL105C	100	10	N	N	150	N	30	N	10	50	700	150	150	500	N
84RL106C	70	15	100	N	50	N	20	N	20	N	200	70	N	300	N
84RL107C	50	10	150	N	<50	N	50	N	20	100	200	50	N	500	N
84RT100C	200	20	N	N	70	N	150	N	10	150	700	100	N	200	N
84RT101C	70	10	N	N	70	N	300	N	10	20	700	150	N	500	N
84RT102C	70	70	N	N	70	50	1,000	N	10	N	700	100	N	500	N
84RT103C	70	20	N	N	100	N	200	N	20	150	700	150	N	500	N
84RT104C	70	300	N	N	100	N	200	N	10	300	700	150	N	500	N
84RT105C	70	70	N	N	100	N	500	N	10	300	700	150	N	500	N
84RT106C	100	70	N	N	150	N	200	N	10	N	700	150	N	500	N
84RT107C	100	70	N	N	150	N	300	N	10	1,000	700	150	N	300	N
84RT108C	100	10	N	N	150	N	100	N	30	30	500	150	N	500	N
84RT109C	50	30	N	N	150	N	70	N	10	200	700	150	N	300	N
84SA100C	100	<10	500	N	50	30	20	N	20	N	200	150	N	150	500
84SA101C	100	50	1,000	N	50	N	20	N	50	N	N	150	N	200	N
84SA102C	100	70	500	N	N	70	20	N	70	N	N	200	N	200	N
84SA103C	100	10	1,000	N	50	50	20	N	70	N	N	150	N	300	N
84SA104C	100	<10	500	N	<50	30	<20	N	70	N	N	200	N	200	N
84SA105C	100	10	1,500	N	50	N	30	N	70	70	200	200	N	200	N
84SA106C	70	10	>2,000	N	<50	30	30	N	50	N	N	150	N	500	N
84SA107C	70	10	>2,000	N	50	N	50	N	70	N	N	150	N	1,500	N
84SA108C	70	10	500	N	<50	N	<20	N	50	N	N	150	N	300	N
84SA109C	100	<10	>2,000	N	<50	50	30	N	50	N	200	150	N	500	N
84SA110C	500	<10	300	N	<50	70	N	<200	70	N	N	150	N	200	N
84SA200C	200	10	700	N	50	30	20	<200	50	N	N	150	N	300	N
84SA201C	100	<10	200	N	N	30	N	N	70	N	200	150	N	200	N
84SA202C	100	10	1,000	N	70	N	30	N	20	N	200	150	N	300	N
84SA203C	200	200	1,500	N	70	100	<20	<200	50	20	N	2,000	N	150	N
84SA205C	50	10	500	N	<50	N	20	N	20	<20	200	150	N	300	N
84SD100C	150	10	150	N	50	N	70	N	50	N	500	150	N	500	N
84SD101C	100	<10	150	N	N	N	70	N	50	<20	500	150	N	300	N
84SD102C	150	10	150	N	70	N	70	N	30	20	500	150	N	500	N
84SD103C	150	15	200	N	50	N	100	N	30	30	700	150	N	700	N
84SD104C	150	15	200	N	100	N	70	N	20	30	700	150	N	700	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84SD105C	43 2 24	73 5 17	1.00	.70	7.0	>2.0	200	N	N	N	500	300	N	N	N
84SD106C	43 4 44	73 6 36	.20	.50	.2	>2.0	100	N	N	N	2,000	300	N	N	N
84SD107C	43 5 21	73 5 39	.50	.70	.5	>2.0	50	N	N	N	2,000	300	N	N	N
84SD108C	43 6 35	73 6 11	1.00	2.00	2.0	>2.0	150	N	N	N	2,000	300	N	N	N
84SD109C	43 6 50	73 5 51	1.00	5.00	5.0	>2.0	500	N	N	N	1,500	300	2	N	N
84SH100C	43 0 37	73 15 53	7.00	.20	5.0	2.0	100	N	700	N	100	1,500	<2	N	50
84SH101C	43 0 53	73 18 19	1.00	.20	7.0	2.0	100	N	N	N	150	2,000	N	N	20
84SH102C	43 3 2	73 16 43	.50	.10	10.0	2.0	100	N	N	N	150	700	2	N	N
84SH103C	43 3 2	73 16 44	1.00	1.00	5.0	2.0	100	N	N	N	200	1,000	2	N	10
84SH104C	43 2 23	73 19 40	.70	.50	1.0	2.0	100	N	N	N	200	1,500	N	N	N
84SH105C	43 3 44	73 21 45	.20	.50	1.5	2.0	50	N	N	N	200	700	N	N	N
84SH106C	43 6 9	73 19 31	.50	.20	10.0	2.0	100	N	N	N	100	5,000	N	N	N
84SH107C	43 6 56	73 18 10	2.00	.10	5.0	2.0	100	N	N	N	200	2,000	N	N	N
84SH108C	43 7 25	73 17 28	.50	.10	7.0	2.0	100	N	N	N	200	700	2	N	N
84SH109C	43 5 35	73 17 57	.50	.20	5.0	2.0	70	N	N	N	200	1,000	N	N	N
84SH110C	43 7 4	73 15 58	2.00	.20	2.0	2.0	70	N	N	N	300	1,000	2	N	10
84SL200C	43 46 50	73 45 42	.20	.20	7.0	.7	70	N	N	N	50	700	N	N	N
84SL201C	43 45 25	73 52 45	.20	.50	15.0	1.5	70	N	N	N	50	300	N	N	N
84SL202C	43 46 36	73 54 49	.20	2.00	10.0	2.0	100	N	N	N	200	500	N	N	N
84SL203C	43 47 27	73 53 54	.20	.50	20.0	.2	100	N	N	N	20	300	N	N	N
84SL204C	43 49 38	73 51 59	.20	.50	10.0	.5	70	N	N	N	20	200	N	N	N
84SL205C	43 50 26	73 51 15	.20	.05	10.0	.5	50	N	N	N	20	500	N	N	N
84SL206C	43 56 19	73 57 13	.20	.50	10.0	.5	70	N	N	N	20	500	N	N	N
84SL207C	43 56 42	73 57 12	.30	.50	10.0	.5	100	N	N	N	<20	500	N	N	N
84SL208C	43 57 25	73 52 12	.20	.20	20.0	.2	70	N	N	N	<20	200	N	N	N
84SL209C	43 57 33	73 47 26	.20	.05	10.0	.5	50	N	N	N	<20	300	N	N	N
84SL210C	43 56 38	73 51 0	.20	.05	20.0	.1	70	N	N	N	50	300	N	N	N
84SL211C	43 57 21	73 50 14	.20	.20	20.0	1.0	70	N	N	N	<20	200	N	N	N
84SL212C	43 50 3	73 55 55	.20	.70	5.0	.2	70	N	N	N	<20	500	N	N	N
84SL213C	43 48 20	73 57 9	.30	.20	10.0	2.0	70	N	N	N	20	500	N	N	N
84SL214C	43 52 55	73 54 9	.15	.50	20.0	.5	70	N	N	N	<20	300	N	N	N
84SL215C	43 51 5	73 48 9	.20	.10	10.0	.5	50	N	N	N	<20	300	N	N	N
84SM100C	43 7 48	73 15 18	2.00	.50	5.0	2.0	100	N	N	N	200	1,000	2	N	20
84SM101C	43 9 52	73 15 28	1.00	.20	1.0	2.0	150	N	N	N	200	700	2	N	N
84SM103C	43 7 50	73 20 3	15.00	.10	5.0	1.0	100	N	700	N	50	5,000	N	N	30
84SM104C	43 10 14	73 17 34	.70	.50	5.0	2.0	70	N	N	N	200	7,000	N	N	N
84SM105C	43 12 18	73 15 41	.70	.20	2.0	2.0	50	N	N	<20	100	200	N	N	N
84SM200C	43 12 24	73 20 42	3.00	.70	5.0	>2.0	200	N	N	N	200	>10,000	N	N	20
84SY100C	43 46 13	73 10 56	.50	.20	2.0	2.0	100	N	N	N	100	<50	N	N	N
84SY101C	43 47 38	73 12 16	1.00	.20	2.0	>2.0	200	N	N	N	100	<50	N	N	N
84SY202C	43 49 21	73 11 7	1.50	.20	2.0	>2.0	100	N	N	N	70	<50	N	N	N
84SY203C	43 47 36	73 9 21	.30	.20	1.0	>2.0	70	N	N	N	200	<50	N	N	N
84TC200C	43 45 16	73 19 24	.50	1.00	5.0	2.0	150	N	N	N	20	200	N	N	N
84TC201C	43 45 15	73 19 21	.50	1.00	5.0	2.0	150	N	N	N	50	200	N	N	N
84TC202C	43 57 35	73 29 18	.20	.50	2.0	2.0	100	N	N	N	30	70	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84SD105C	150	15	200	N	50	N	100	N	30	300	N	100	N	500	N
84SD106C	150	10	150	N	N	N	50	N	70	20	N	70	N	700	N
84SD107C	150	10	150	N	N	N	50	N	70	N	N	70	N	1,000	N
84SD108C	150	<10	150	N	N	N	70	N	70	N	N	70	N	700	N
84SD109C	150	15	150	N	50	N	100	N	30	N	N	70	N	500	N
84SH100C	1,500	150	150	N	N	70	200	N	20	30	500	20	N	150	N
84SH101C	300	10	150	N	50	N	20	N	20	<20	700	50	N	200	N
84SH102C	150	10	100	N	N	N	70	N	20	150	500	20	N	200	N
84SH103C	300	15	200	N	50	30	70	N	10	150	300	50	N	150	N
84SH104C	150	10	200	N	N	N	20	N	20	30	N	50	N	150	N
84SH105C	70	15	70	N	N	N	50	N	30	N	N	20	N	700	N
84SH106C	100	10	100	N	N	N	20	N	20	N	500	20	N	200	N
84SH107C	150	15	150	N	50	N	100	N	20	N	500	50	N	200	N
84SH108C	200	20	70	N	<50	N	70	N	10	300	300	20	N	150	N
84SH109C	150	10	150	N	N	N	300	N	20	150	500	50	N	200	N
84SH110C	300	700	300	N	50	20	700	N	20	20	300	50	N	150	N
84SL200C	N	<10	70	N	N	N	N	N	10	N	200	<20	N	150	N
84SL201C	50	<10	150	N	N	N	N	N	10	N	200	20	N	200	N
84SL202C	150	10	70	N	N	N	N	N	10	20	200	100	N	150	N
84SL203C	20	N	150	N	N	N	N	N	10	N	300	<20	N	150	N
84SL204C	N	N	200	N	N	N	N	N	10	N	300	<20	N	150	N
84SL205C	N	N	150	N	N	N	N	N	10	N	300	<20	N	150	N
84SL206C	N	N	100	N	N	N	N	N	10	N	300	<20	N	100	N
84SL207C	N	N	100	N	N	N	N	N	10	N	500	<20	N	100	N
84SL208C	N	N	200	N	N	N	N	N	10	N	500	<20	N	150	N
84SL209C	N	N	150	N	N	N	N	N	10	N	200	<20	N	150	N
84SL210C	N	N	200	N	N	N	N	N	10	N	500	<20	N	150	N
84SL211C	20	N	200	N	N	N	N	N	15	N	300	20	N	150	N
84SL212C	20	N	50	N	N	N	N	N	10	N	300	<20	N	100	N
84SL213C	100	10	100	N	N	N	<20	N	10	20	300	50	N	100	N
84SL214C	N	N	200	N	N	N	<20	N	10	N	300	<20	N	150	N
84SL215C	20	N	150	N	N	N	N	N	10	N	500	<20	N	100	N
84SM100C	200	15	300	N	<50	20	100	N	20	200	500	20	N	200	N
84SM101C	200	10	150	N	<50	10	70	N	20	1,000	200	50	N	150	N
84SM103C	50	200	100	N	N	70	50	N	10	<20	200	20	N	200	500
84SM104C	150	10	100	N	50	N	150	N	20	N	200	50	N	300	N
84SM105C	200	20	50	N	N	N	150	N	20	200	200	50	N	200	N
84SM200C	100	100	100	N	100	30	20	N	10	<20	500	50	N	200	N
84SY100C	100	10	50	N	<50	N	20	N	<10	N	N	50	N	200	N
84SY101C	100	10	50	N	<50	N	<20	N	<10	N	N	50	N	200	N
84SY202C	70	2,000	50	N	<50	N	700	300	<10	>2,000	N	50	N	200	N
84SY203C	100	10	50	N	<50	N	20	N	<10	N	N	50	N	300	N
84TC200C	150	10	50	N	<50	N	<20	N	10	N	N	50	N	150	N
84TC201C	150	10	50	N	<50	N	<20	N	10	N	N	50	N	150	N
84TC202C	N	10	50	N	<50	N	<20	N	10	N	200	100	N	100	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
84TC203C	43 57 33	73 29 16	.50	1.00	5.0	>2.0	200	N	N	N	50	50	N	N	N
84TC204C	43 52 58	73 28 21	.50	2.00	5.0	>2.0	200	N	N	N	50	50	N	N	N
84TC205C	43 49 5	73 29 55	1.00	1.00	2.0	>2.0	500	N	N	N	50	70	N	N	N
84TC206C	43 45 44	73 27 22	.50	2.00	5.0	>2.0	200	N	N	N	50	50	N	N	N
84TH200C	43 36 23	73 18 22	.20	.20	.5	>2.0	50	N	N	N	100	100	2	N	N
84TH201C	43 35 36	73 21 3	20.00	.05	.5	1.5	100	N	N	N	50	10,000	N	N	50
84TH202C	43 33 5	73 15 57	1.00	1.00	5.0	>2.0	200	N	N	N	200	100	N	N	N
84TH203C	43 31 22	73 15 43	2.00	1.00	5.0	>2.0	500	N	N	N	200	100	N	N	20
84TH204C	43 31 36	73 19 26	2.00	1.50	5.0	>2.0	500	N	N	N	200	70	N	N	N
84WH200C	43 34 25	73 26 45	.50	.50	2.0	>2.0	200	N	N	N	200	100	N	N	N
84WH201C	43 35 20	73 29 21	.50	2.00	5.0	>2.0	500	N	N	N	100	50	N	N	N
84WH202C	43 35 2	73 29 16	.50	5.00	10.0	>2.0	500	N	N	N	100	<50	N	N	N
84WH203C	43 34 29	73 28 22	.50	.50	5.0	>2.0	200	N	N	N	200	50	N	N	N
84WH204C	43 33 1	73 27 55	2.00	2.00	5.0	>2.0	200	N	N	N	100	50	N	N	50
84WH205C	43 32 11	73 28 29	.50	1.00	5.0	>2.0	200	N	N	N	200	70	N	N	N
84WH206C	43 37 9	73 26 22	.50	.50	5.0	>2.0	200	N	N	N	200	50	N	N	N
84WL200C	43 28 27	73 11 41	.50	.10	5.0	>2.0	100	N	N	N	100	1,500	N	N	N
84WL201C	43 24 38	73 9 4	7.00	.70	5.0	>2.0	100	N	N	N	150	100	N	N	50
84WL202C	43 24 53	73 11 29	1.00	.50	7.0	>2.0	150	N	N	N	500	2,000	N	N	N
84WL203C	43 28 31	73 8 53	2.00	.20	7.0	>2.0	100	N	N	N	200	200	N	N	N
84WL204C	43 27 42	73 8 5	1.50	.10	5.0	2.0	100	N	N	N	70	200	N	N	N
84WL205C	43 24 21	73 8 57	7.00	.50	5.0	>2.0	150	N	N	N	500	500	N	N	70
84WL206C	43 22 58	73 14 7	.70	1.00	2.0	>2.0	200	N	N	N	200	200	N	N	N
84WP200C	43 21 14	73 17 16	1.00	.70	2.0	>2.0	200	N	N	N	100	500	N	N	N
84WP201C	43 19 51	73 17 26	1.00	.70	2.0	>2.0	200	N	N	N	100	>10,000	N	N	N
84WP202C	43 17 24	73 20 48	1.00	.70	5.0	>2.0	200	N	N	N	200	500	N	N	N
84WP203C	43 18 21	73 21 29	2.00	.50	5.0	>2.0	200	N	N	N	50	10,000	N	N	N
84WP204C	43 15 21	73 19 29	2.00	.70	5.0	>2.0	200	N	N	N	200	7,000	N	<20	N
84WP205C	43 15 20	73 16 31	2.00	1.00	2.0	>2.0	500	N	N	N	200	500	N	N	N
84WR100C	43 8 5	73 14 50	.50	.20	20.0	1.0	150	N	N	N	100	5,000	N	N	N
84WR101C	43 9 54	73 13 52	.20	.10	20.0	1.0	150	N	N	N	50	200	N	N	N
84WR102C	43 9 45	73 14 58	.20	.10	15.0	2.0	150	N	N	N	70	200	N	N	N
84WR103C	43 7 39	73 11 40	.20	.05	10.0	1.0	150	N	N	N	100	2,000	N	N	N
84WR104C	43 8 52	73 12 22	2.00	1.00	7.0	1.5	150	N	N	N	200	1,500	N	N	100
84WR105C	43 13 25	73 10 46	30.00	.05	7.0	.7	100	N	1,500	N	100	500	N	N	100
84WR106C	43 13 38	73 10 39	2.00	.10	20.0	1.5	100	N	N	N	200	1,500	N	N	10
84WR107C	43 14 17	73 11 56	10.00	.20	10.0	2.0	100	15	7,000	N	100	5,000	N	50	50
84WR108C	43 14 7	73 13 55	1.00	2.00	5.0	2.0	100	N	N	N	500	700	N	N	N
84WR109C	43 13 20	73 13 0	2.00	.50	5.0	2.0	100	N	N	N	500	1,500	N	N	20
84WR110C	43 11 11	73 8 31	5.00	.20	5.0	2.0	150	N	N	N	500	1,000	2	N	20
84WR111C	43 11 18	73 8 15	2.00	.50	5.0	2.0	150	N	N	N	500	1,000	2	N	10
84WR112C	43 10 43	73 10 49	1.00	.10	10.0	2.0	150	N	N	N	200	1,500	2	N	30
84WR113C	43 9 44	73 10 48	2.00	.20	15.0	2.0	150	N	N	N	200	2,000	2	N	30
84WR114C	43 8 38	73 10 21	1.50	.20	10.0	2.0	200	N	N	N	200	700	2	N	10
84WR115C	43 8 54	73 10 37	1.50	.20	5.0	2.0	150	N	N	N	200	1,000	N	N	30

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
84TC203C	50	10	150	N	70	N	20	N	10	<20	200	150	N	200	N
84TC204C	50	10	100	N	N	N	<20	N	10	N	N	150	N	200	N
84TC205C	50	10	500	N	50	N	20	N	10	N	N	150	N	200	N
84TC206C	50	50	50	N	50	N	50	N	10	N	N	150	N	200	N
84TH200C	50	10	200	N	50	N	<20	N	50	N	N	70	N	1,000	N
84TH201C	20	100	N	30	50	100	<20	N	10	N	N	50	N	100	N
84TH202C	100	20	100	N	100	N	20	N	10	<20	200	100	N	300	N
84TH203C	100	100	100	N	70	N	50	N	10	100	200	100	N	300	N
84TH204C	200	20	1,000	N	100	N	20	N	10	<20	200	100	N	300	N
84WH200C	50	20	50	N	70	N	50	N	50	<20	N	100	N	300	N
84WH201C	70	10	70	N	70	N	20	N	10	N	200	100	N	200	N
84WH202C	50	10	100	N	N	N	<20	N	10	N	200	100	N	200	N
84WH203C	50	20	50	N	N	N	<20	N	20	N	N	150	N	200	N
84WH204C	70	100	100	N	70	70	100	N	10	200	N	150	N	200	N
84WH205C	100	30	100	N	100	N	20	<200	10	50	N	150	N	300	N
84WH206C	70	200	100	N	<50	N	20	<200	30	20	N	150	N	500	N
84WL200C	100	10	50	N	N	N	20	N	20	20	200	20	N	200	N
84WL201C	70	700	<50	N	50	100	50	N	10	N	500	20	N	150	<500
84WL202C	150	20	50	N	70	N	50	N	20	N	500	50	N	150	N
84WL203C	150	50	50	N	N	N	100	N	20	200	500	50	N	200	N
84WL204C	150	10	50	N	N	N	N	N	10	N	500	50	N	150	N
84WL205C	150	300	150	N	50	70	100	N	20	300	300	50	N	150	N
84WL206C	150	20	500	N	50	N	20	N	20	200	200	100	N	300	N
84WP200C	100	70	50	N	50	N	20	N	20	100	N	100	N	500	N
84WP201C	100	200	100	N	50	N	20	N	10	70	500	100	N	300	N
84WP202C	100	50	500	N	70	N	20	N	10	N	500	70	N	200	N
84WP203C	100	150	N	N	70	N	100	N	10	700	500	100	N	300	N
84WP204C	100	1,000	100	N	50	N	500	N	20	200	500	100	N	200	N
84WP205C	200	50	100	N	50	N	2,000	N	20	<20	200	100	N	200	N
84WR100C	70	10	50	N	N	N	70	300	10	300	700	20	N	300	N
84WR101C	50	15	50	N	N	N	2,000	N	10	30	700	20	N	300	<500
84WR102C	70	10	150	N	N	N	50	N	10	N	700	50	N	300	N
84WR103C	50	<10	70	N	N	N	700	N	10	N	500	<20	N	300	N
84WR104C	150	50	1,000	N	<50	N	200	N	20	200	500	70	N	200	N
84WR105C	50	150	100	N	N	150	150	N	10	200	300	20	N	150	N
84WR106C	150	30	100	N	N	30	100	N	10	1,000	1,000	20	N	500	N
84WR107C	100	1,000	100	N	N	50	7,000	N	20	20	1,000	50	N	300	N
84WR108C	150	20	200	N	50	N	1,000	N	20	100	500	70	N	300	N
84WR109C	200	15	200	N	50	N	1,500	N	20	200	500	70	N	200	N
84WR110C	150	15	300	N	<50	N	100	N	20	20	500	70	N	150	N
84WR111C	200	15	300	N	70	N	70	N	20	20	500	70	N	150	N
84WR112C	150	15	150	N	70	N	70	N	10	20	500	70	N	200	N
84WR113C	150	15	200	N	<50	N	2,000	N	10	200	500	50	N	200	N
84WR114C	150	150	200	N	50	N	1,500	N	10	200	500	50	N	200	N
84WR115C	200	15	500	N	50	N	100	N	20	70	200	50	N	200	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Co-ppm s
85BF404C	43 10 53	72 25 25	.20	.05	.5	>2.0	100	N	N	N	20	70	N	N	N
85BF415C	43 6 48	72 17 5	.20	.10	.5	2.0	100	N	N	N	100	50	2	N	N
85CM200C	43 2 27	73 29 7	.20	.50	10.0	>2.0	200	N	N	N	70	7,000	N	N	N
85CM201C	43 0 7	73 25 24	.10	.50	2.0	>2.0	50	N	N	N	200	200	N	N	N
85CM202C	43 1 44	73 27 44	.50	.10	5.0	>2.0	100	N	N	N	20	2,000	N	N	N
85CM203C	43 4 11	73 28 41	.50	.50	10.0	>2.0	100	N	N	N	500	10,000	N	N	N
85CM204C	43 6 19	73 24 59	.50	.50	5.0	>2.0	100	N	N	N	150	>10,000	N	N	N
85CM205C	43 4 2	73 22 50	.20	1.00	7.0	>2.0	100	N	N	N	200	>10,000	N	N	N
85CM206C	43 3 55	73 29 57	.20	1.00	5.0	>2.0	200	N	N	N	100	10,000	N	N	N
85CM207C	43 0 33	73 29 14	1.00	1.00	5.0	>2.0	200	N	N	N	200	10,000	N	N	N
85CM212C	43 3 31	73 24 35	.50	.50	5.0	>2.0	500	N	N	N	50	>10,000	N	N	N
85CM603C	43 51 24	72 40 11	.20	.05	10.0	1.0	100	N	N	N	N	<50	N	N	N
85CY206C	43 9 0	73 24 50	.20	.50	5.0	>2.0	200	N	N	N	100	3,000	N	N	N
85CY207C	43 14 16	73 28 31	.20	.50	2.0	>2.0	50	N	N	N	50	3,000	N	N	N
85HF201C	43 20 0	73 22 51	.20	.10	2.0	>2.0	70	N	N	N	50	1,000	N	<20	N
85HF202C	43 17 33	73 24 55	.50	.50	5.0	>2.0	100	N	N	N	20	10,000	N	<20	N
85HF203C	43 15 8	73 23 3	.50	.20	5.0	>2.0	200	N	N	N	100	1,000	N	N	70
85HF205C	43 17 45	73 26 5	.50	.20	5.0	>2.0	100	N	N	N	150	7,000	N	N	N
85RA600C	43 52 37	72 41 21	.50	.10	10.0	>2.0	200	N	N	N	N	<50	N	N	N
85RA601C	43 52 28	72 38 48	.20	.05	10.0	2.0	200	N	N	N	N	<50	N	N	N
85RA602C	43 51 16	72 39 26	.20	.05	5.0	1.5	100	N	N	N	N	<50	N	N	N
85RA604C	43 50 16	72 38 57	.20	.05	2.0	.5	100	N	N	N	N	<50	N	20	N
85RA606C	43 45 48	72 38 15	.50	.05	5.0	2.0	100	N	N	50	N	1,000	N	N	20
85RA607C	43 45 6	72 38 36	.70	.05	2.0	1.0	70	N	500	N	N	<50	N	N	50
85SC201C	43 10 51	73 31 0	2.00	.50	5.0	>2.0	100	N	500	30	100	7,000	50	N	30
85SR400C	43 1 29	72 39 54	.50	.20	5.0	>2.0	150	N	N	N	<20	100	N	N	N

TABLE3--EMISSION SPECTROGRAPHIC ANALYSES OF NONMAGNETIC HEAVY MINERAL CONCENTRAT--Continued

Sample	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s
85BF404C	50	20	N	N	200	N	30	N	20	500	N	100	1,000	100	N
85BF415C	50	<10	N	N	50	N	<20	N	N	100	N	100	N	30	N
85CM200C	50	10	100	N	<50	N	300	N	10	1,000	500	70	N	500	N
85CM201C	20	10	100	N	N	N	30	N	20	30	N	70	N	1,000	N
85CM202C	20	10	70	N	N	N	<20	N	10	N	200	70	N	300	N
85CM203C	70	1,000	100	N	50	N	700	N	N	70	500	70	N	300	500
85CM204C	20	100	70	N	50	N	70	N	10	100	500	70	N	300	N
85CM205C	50	10	70	N	50	N	500	N	10	700	500	100	N	300	N
85CM206C	50	10	50	N	50	N	20	N	10	N	500	150	N	500	N
85CM207C	50	10	100	N	50	N	5,000	N	10	1,000	500	70	N	300	N
85CM212C	50	10	100	N	70	N	50	N	10	20	500	70	N	300	N
85CM603C	N	<10	N	N	N	N	<20	N	10	N	200	50	N	150	N
85CY206C	70	10	50	N	50	N	200	N	10	50	200	70	N	500	N
85CY207C	50	20	50	N	50	N	1,000	N	10	1,000	200	70	N	300	N
85HF201C	50	10	50	N	<50	N	1,000	N	10	70	200	100	N	500	N
85HF202C	50	70	50	N	50	N	1,000	N	10	1,500	200	70	N	300	N
85HF203C	70	100	50	N	50	N	1,000	700	10	2,000	300	100	N	300	N
85HF205C	70	100	50	N	50	N	50	N	10	1,000	200	100	N	300	N
85RA600C	N	<10	N	N	N	N	30	N	10	N	300	50	<100	100	N
85RA601C	N	<10	N	N	<50	N	<20	N	10	N	300	50	N	200	N
85RA602C	N	<10	<50	N	N	N	70	N	10	100	200	20	N	100	>2,000
85RA604C	N	<10	N	N	N	N	N	N	10	N	N	20	<100	50	N
85RA606C	N	20	N	N	50	N	<20	N	10	N	200	50	N	100	N
85RA607C	N	10	N	N	N	N	30	N	10	N	N	30	N	100	N
85SC201C	50	70	50	N	70	50	500	N	10	2,000	300	100	N	300	500
85SR400C	N	<10	50	N	100	N	20	N	10	20	200	50	N	700	N

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
83SR133C	43 0 9	72 33 45	7	.7	2.0	2.0	7,000	N	20	<50	10	100
83SR132C	43 0 18	72 32 48	7	1.0	2.0	2.0	5,000	N	20	<50	10	100
83SR135C	43 0 18	72 43 14	7	.5	1.5	1.0	5,000	N	30	<50	10	70
83SR134C	43 0 29	72 43 5	7	1.0	2.0	1.5	5,000	N	50	<50	20	100
83SR130C	43 0 32	72 32 30	7	.5	1.0	2.0	7,000	N	20	<50	10	100
83SR129C	43 0 38	72 31 49	7	1.0	2.0	2.0	5,000	N	50	<50	20	100
83SR123C	43 0 57	72 37 18	7	1.0	2.0	2.0	3,000	N	50	<50	20	100
83SR145C	43 0 57	72 39 12	7	1.0	5.0	1.0	2,000	N	50	<50	30	150
83SR122C	43 1 23	72 36 17	7	.7	1.5	>2.0	5,000	N	20	<50	20	200
83SR144C	43 1 56	72 39 30	7	1.0	5.0	1.5	7,000	N	20	<50	20	300
83SR131C	43 1 58	72 32 54	7	.7	2.0	1.0	7,000	N	20	<50	10	100
83SR121C	43 2 0	72 36 30	7	1.5	2.0	1.0	3,000	N	50	<50	30	150
83SR120C	43 2 16	72 35 56	7	1.0	2.0	2.0	5,000	N	20	<50	30	200
83SR146C	43 2 24	72 41 36	7	1.0	2.0	1.0	5,000	N	20	<50	30	100
83SR128C	43 2 38	72 30 58	7	.7	1.0	>2.0	5,000	N	50	<50	20	300
83SR148C	43 2 48	72 43 0	7	.7	1.5	1.5	7,000	N	100	<50	30	70
83SR149C	43 2 50	72 42 38	7	1.0	1.5	1.5	5,000	N	200	<50	30	100
83SR147C	43 2 52	72 43 4	7	1.0	1.5	1.5	7,000	N	100	<50	30	100
83SR140C	43 2 54	72 40 48	7	1.0	1.5	1.5	5,000	N	50	<50	50	70
83SR126C	43 3 24	72 32 0	7	1.0	2.0	>2.0	5,000	N	100	<50	30	300
83SR124C	43 3 57	72 32 28	7	1.0	1.5	2.0	5,000	N	20	<50	10	150
83SR119C	43 3 58	72 35 16	7	1.5	2.0	1.5	3,000	N	20	<50	30	100
83SR139C	43 4 42	72 42 18	7	1.0	1.5	2.0	10,000	N	200	<50	30	200
83SR142C	43 4 50	72 38 28	7	1.0	2.0	1.5	5,000	N	50	<50	20	100
83SR143C	43 4 58	72 38 2	7	1.0	5.0	1.5	2,000	N	20	<50	20	200
83SR138C	43 5 3	72 42 38	7	1.0	1.5	2.0	5,000	N	50	<50	30	100
83SR141C	43 5 6	72 39 46	10	1.5	2.0	1.5	5,000	N	50	<50	50	200
83SR127C	43 5 15	72 30 26	10	.7	1.0	>2.0	5,000	N	50	<50	30	300
83SR118C	43 5 35	72 35 17	7	1.0	2.0	1.5	5,000	N	50	<50	20	500
83SR137C	43 5 39	72 43 57	7	.5	1.5	1.0	5,000	N	50	<50	30	70
83SR136C	43 5 39	72 44 2	10	1.0	2.0	1.5	5,000	N	100	50	50	100
83SR117C	43 6 5	72 35 4	7	1.0	2.0	1.0	5,000	N	20	<50	20	100
83SR125C	43 6 6	72 32 14	7	1.0	1.5	2.0	5,000	N	50	<50	30	300
83SR114C	43 7 22	72 38 39	7	1.0	1.5	2.0	5,000	N	100	<50	30	150
83SR113C	43 7 53	72 38 17	7	1.5	1.5	1.5	5,000	N	50	<50	30	300
83SR103C	43 8 30	72 31 55	7	1.0	2.0	2.0	5,000	N	150	<50	30	500
83SR112C	43 8 30	72 37 46	7	1.5	1.5	1.0	5,000	N	50	<50	30	200
83SR102C	43 8 44	72 30 30	7	1.0	1.0	2.0	5,000	N	200	<50	30	100
83SR116C	43 8 55	72 34 52	7	1.5	2.0	1.0	5,000	N	20	<50	30	300
83SR115C	43 9 5	72 34 57	7	1.0	2.0	1.0	5,000	N	20	<50	20	300
83SR106C	43 9 8	72 34 33	7	1.0	3.0	1.0	5,000	N	100	<50	20	300
83SR104C	43 9 42	72 33 18	7	1.5	2.0	2.0	5,000	N	100	<50	30	200
83SR110C	43 9 47	72 39 0	7	1.0	1.5	>2.0	7,000	N	100	<50	20	500
83SR109C	43 10 32	72 37 4	7	1.0	1.5	1.0	5,000	N	50	<50	30	200
83SR107C	43 10 57	72 35 16	7	2.0	3.0	1.0	5,000	N	100	<50	30	300

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
83SR133C	<10	N	N	<50	10	N	70	N	70	150	N	1
83SR132C	10	N	N	<50	20	N	70	N	70	200	N	4
83SR135C	20	20	N	<50	10	N	70	N	70	200	N	1
83SR134C	20	N	N	<50	20	N	70	N	70	200	N	1
83SR130C	30	N	N	<50	10	N	70	N	70	150	N	2
83SR129C	20	N	N	<50	20	N	70	N	70	150	N	11
83SR123C	50	50	N	N	20	N	50	200	100	100	N	1
83SR145C	10	100	N	<50	30	<20	70	300	100	200	N	3
83SR122C	<10	70	N	<50	10	N	70	200	100	150	N	N
83SR144C	<10	100	N	<50	10	<20	100	200	100	200	N	2
83SR131C	10	N	N	<50	20	N	70	N	70	150	N	5
83SR121C	10	70	N	N	30	N	70	200	100	150	N	2
83SR120C	10	100	N	N	20	N	70	300	100	200	N	2
83SR146C	30	N	N	N	10	<20	70	<200	70	200	N	3
83SR128C	20	50	N	50	10	N	70	N	70	200	N	2
83SR148C	10	N	N	N	20	N	70	N	70	150	N	2
83SR149C	30	N	N	<50	20	<20	70	<200	70	150	N	3
83SR147C	30	N	N	N	20	N	70	200	70	150	N	3
83SR140C	70	N	N	<50	30	N	70	<200	100	200	N	2
83SR126C	10	50	N	50	20	N	70	<200	100	150	N	6
83SR124C	<10	N	N	50	10	N	70	<200	70	150	N	1
83SR119C	30	70	N	N	10	<20	70	300	100	200	N	2
83SR139C	30	N	N	<50	30	<20	70	<200	100	200	N	4
83SR142C	<10	N	N	<50	10	N	70	200	100	150	N	2
83SR143C	<10	50	N	<50	10	<20	70	300	100	150	N	3
83SR138C	10	N	N	<50	20	N	70	<200	70	150	N	3
83SR141C	30	N	N	<50	30	N	70	<200	100	200	N	4
83SR127C	50	50	N	50	20	N	70	N	100	200	N	2
83SR118C	<10	70	N	N	10	N	70	200	100	200	N	3
83SR137C	10	N	N	N	10	N	70	N	70	200	N	2
83SR136C	30	50	N	<50	30	<20	70	200	70	200	--	2
83SR117C	<10	70	N	N	10	<20	70	300	100	150	N	2
83SR125C	10	N	N	<50	20	N	70	<200	100	150	N	4
83SR114C	30	N	N	<50	30	N	70	N	100	200	N	3
83SR113C	30	N	N	<50	30	N	70	N	100	150	--	2
83SR103C	10	N	N	<50	20	N	70	200	100	150	N	6
83SR112C	20	N	N	N	30	N	70	N	100	150	N	3
83SR102C	20	N	N	<50	30	N	50	200	100	100	N	7
83SR116C	10	70	N	N	10	N	70	200	100	150	N	2
83SR115C	<10	N	N	N	10	N	70	200	100	150	N	2
83SR106C	<10	70	N	N	20	20	50	300	150	150	N	3
83SR104C	10	N	N	N	30	20	70	200	150	150	N	4
83SR110C	20	70	N	50	20	N	70	N	100	200	N	N
83SR109C	20	N	N	N	30	N	70	200	150	150	N	5
83SR107C	20	N	N	N	30	20	70	300	150	100	N	5

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
83SR108C	43 10 58	72 35 23	7	2.0	1.5	1.0	3,000	N	50	<50	20	150
83SR101C	43 11 25	72 30 18	7	.5	1.0	>2.0	5,000	N	50	<50	20	150
83SR111C	43 11 34	72 38 21	7	1.0	1.0	2.0	10,000	N	50	<50	30	300
83SR100C	43 12 34	72 30 36	7	1.0	2.0	1.0	5,000	N	100	<50	30	150
83SR105C	43 13 45	72 34 42	7	2.0	3.0	1.0	5,000	N	100	<50	30	500
83CL113C	43 15 2	72 26 30	20	1.0	5.0	>2.0	10,000	N	700	150	30	500
84CL412C	43 15 5	72 29 33	7	1.0	2.0	1.5	7,000	N	500	50	30	100
83CH105C	43 15 8	72 32 8	10	2.0	2.0	>2.0	7,000	N	200	<50	30	1,000
82AN114C	43 15 11	72 43 9	10	2.0	5.0	2.0	5,000	N	500	<50	50	300
84CL415C	43 15 16	72 28 38	10	5.0	2.0	1.5	700	N	200	100	30	150
83CH104C	43 15 19	72 34 16	10	2.0	5.0	1.0	7,000	N	200	<50	30	2,000
83CH102C	43 15 22	72 35 57	10	2.0	2.0	1.0	10,000	N	500	<50	30	500
82AN113C	43 15 24	72 41 4	10	1.0	2.0	>2.0	10,000	N	700	50	70	500
82AN104C	43 15 27	72 42 24	10	2.0	5.0	>2.0	5,000	N	700	50	50	200
84CL416C	43 15 33	72 27 57	10	5.0	2.0	1.5	10,000	N	200	50	30	150
84CL413C	43 15 49	72 29 7	7	1.0	1.5	1.5	7,000	N	200	<50	20	70
83CL111C	43 15 50	72 29 32	20	1.0	5.0	>2.0	10,000	N	200	150	30	200
84CH413C	43 15 54	72 30 14	10	5.0	2.0	1.5	7,000	N	200	70	30	200
82AN207C	43 16 6	72 38 1	10	1.0	5.0	>2.0	10,000	N	200	<50	50	3,000
84CL414C	43 16 18	72 28 37	10	1.0	2.0	1.5	7,000	N	500	<50	30	70
83CH101C	43 16 20	72 35 3	10	2.0	2.0	1.5	10,000	N	150	<50	50	10,000
84CH409C	43 16 25	72 32 11	10	5.0	5.0	1.5	7,000	N	100	50	50	200
84CL417C	43 16 30	72 27 32	10	5.0	2.0	2.0	10,000	N	200	100	30	100
82AN103C	43 16 35	72 44 9	10	2.0	5.0	>2.0	7,000	N	500	<50	50	200
84CL411C	43 16 36	72 29 27	7	2.0	2.0	1.5	7,000	N	200	50	30	300
83CH100C	43 16 36	72 35 18	10	5.0	5.0	1.0	5,000	N	500	<50	20	2,000
83CL112C	43 16 38	72 28 38	20	1.0	5.0	>2.0	10,000	N	700	150	30	150
84CL408C	43 16 42	72 26 34	10	2.0	2.0	2.0	7,000	N	150	70	20	100
82AN209M	43 16 45	72 40 19	15	.7	2.0	>2.0	>10,000	N	1,000	70	70	500
84CH410C	43 16 50	72 31 13	10	5.0	5.0	1.5	5,000	N	200	100	30	100
82AN106C	43 17 0	72 42 11	10	1.0	2.0	>2.0	7,000	N	1,500	<50	50	200
83CH103C	43 17 5	72 36 59	10	5.0	5.0	1.0	10,000	N	500	<50	30	2,000
82AN212M	43 17 19	72 40 23	15	.7	2.0	>2.0	>10,000	N	700	70	70	700
84CL407C	43 17 23	72 26 15	10	2.0	2.0	2.0	7,000	N	100	100	20	100
83CH203C	43 17 25	72 31 16	10	1.0	2.0	1.0	5,000	N	200	<50	30	70
83CL114C	43 17 33	72 27 36	20	1.0	5.0	>2.0	10,000	N	700	100	20	100
82AN102C	43 17 36	72 43 58	10	2.0	2.0	>2.0	7,000	N	1,500	<50	30	100
82AN105M	43 17 45	72 43 0	15	1.0	5.0	>2.0	5,000	N	2,000	150	100	70
82AN214M	43 17 46	72 40 58	15	.7	2.0	>2.0	>10,000	N	700	70	30	200
82AN115C	43 17 48	72 42 23	10	1.0	2.0	>2.0	10,000	N	2,000	50	50	200
82AN208C	43 17 54	72 38 26	10	2.0	5.0	2.0	7,000	N	200	<50	30	700
84CL401C	43 17 56	72 29 48	10	2.0	2.0	1.5	7,000	N	200	60	50	100
84CL404C	43 17 59	72 28 20	10	2.0	2.0	2.0	7,000	N	100	50	30	70
83CH207C	43 18 0	72 36 45	10	1.0	2.0	1.5	7,000	N	200	<50	30	700
83CH204C	43 18 1	72 33 3	7	1.0	5.0	1.0	2,000	N	20	<50	10	700

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
83SR108C	<10	N	N	N	30	N	50	200	150	100	N	2
83SR101C	10	N	N	<50	10	N	50	N	100	150	N	3
83SR111C	20	N	N	<50	20	N	70	N	100	200	N	3
83SR100C	20	N	N	<50	30	N	50	200	100	100	N	5
83SR105C	<10	N	N	N	30	<20	70	200	150	100	N	3
83CL113C	100	70	N	50	20	N	100	200	300	200	--	--
84CL412C	50	N	N	50	20	<20	70	200	100	150	--	--
83CH105C	10	N	N	50	10	<20	70	200	150	200	N	1
82AN114C	20	50	N	<50	50	30	70	300	150	200	N	7
84CL415C	30	N	N	<50	50	30	70	700	150	100	N	--
83CH104C	10	50	N	N	20	<20	70	500	200	150	N	3
83CH102C	100	N	N	N	20	<20	70	200	150	200	N	5
82AN113C	70	200	N	50	30	20	50	200	150	500	N	12
82AN104C	50	50	N	<50	50	30	70	500	150	150	N	5
84CL416C	30	N	N	<50	30	<20	70	500	150	150	N	--
84CL413C	10	N	N	<50	10	<20	70	200	100	150	N	--
83CL111C	50	N	N	50	20	20	100	300	300	300	--	--
84CH413C	30	N	N	N	30	<20	70	500	150	150	--	--
82AN207C	50	100	N	<50	30	20	70	200	100	200	N	4
84CL414C	10	N	N	<50	15	<20	70	300	100	200	N	--
83CH101C	20	50	N	<50	20	<20	100	200	200	300	--	3
84CH409C	50	N	N	N	30	<20	70	500	150	150	N	--
84CL417C	70	100	N	50	50	<20	70	500	150	150	N	--
82AN103C	70	100	N	50	20	30	70	500	150	300	N	4
84CL411C	20	N	N	N	30	<20	70	700	100	150	--	--
83CH100C	10	50	N	N	30	20	70	1,000	200	100	N	3
83CL112C	20	200	N	50	20	N	100	700	300	300	--	--
84CL408C	20	N	N	70	30	<20	70	200	150	150	--	--
82AN209M	300	300	N	70	30	20	50	500	200	200	--	--
84CH410C	50	50	N	N	30	20	70	500	150	150	--	--
82AN106C	70	200	N	50	30	30	50	200	150	200	N	7
83CH103C	20	70	N	N	50	30	70	500	200	150	N	2
82AN212M	200	100	N	70	20	N	70	N	200	200	--	--
84CL407C	70	N	N	70	30	20	50	300	150	150	N	--
83CH203C	<10	N	N	<50	10	<20	50	500	100	150	N	4
83CL114C	50	200	N	200	10	20	100	300	300	200	--	--
82AN102C	70	150	N	<50	20	30	70	300	150	200	N	4
82AN105M	150	500	N	70	30	150	50	500	200	300	--	--
82AN214M	200	100	N	70	20	N	200	200	200	200	--	--
82AN115C	50	200	N	50	20	20	50	200	150	300	N	10
82AN208C	10	N	N	N	30	30	70	500	150	150	N	2
84CL401C	60	100	N	<50	30	--	70	350	150	175	N	--
84CL404C	30	N	N	70	30	<20	70	300	150	150	N	--
83CH207C	10	N	N	<50	10	N	50	200	100	200	N	6
83CH204C	<10	N	N	N	10	<20	50	500	100	100	N	N

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
82AN112C	43 18 7	72 38 22	10	1.0	5.0	2.0	10,000	N	500	<50	20	2,000
84CL406C	43 18 10	72 26 47	10	2.0	2.0	2.0	7,000	N	100	100	30	100
83CL118C	43 18 15	72 29 19	20	1.0	5.0	>2.0	10,000	N	1,000	100	50	150
84CH412C	43 18 16	72 30 1	10	5.0	2.0	1.0	7,000	N	200	70	30	70
84CL403C	43 18 22	72 29 3	10	2.0	2.0	1.5	7,000	N	500	70	30	100
84CL418C	43 18 26	72 24 9	10	5.0	2.0	2.0	10,000	N	100	100	20	100
83CH205C	43 18 48	72 32 44	10	1.0	1.5	1.5	5,000	N	500	<50	20	100
82AN110C	43 18 48	72 37 47	10	1.0	2.0	>2.0	10,000	N	200	<50	30	5,000
83CL115C	43 18 51	72 25 52	20	1.0	5.0	>2.0	10,000	N	300	70	30	100
82AN111C	43 18 51	72 37 45	10	1.0	5.0	2.0	10,000	N	500	<50	20	3,000
84CL405C	43 18 57	72 26 44	10	2.0	2.0	2.0	10,000	N	100	50	30	70
83CL117C	43 19 3	72 28 28	20	1.0	5.0	>2.0	10,000	N	700	150	50	150
83CL116C	43 19 24	72 26 30	20	1.0	5.0	>2.0	10,000	N	700	150	30	100
83CH206C	43 19 24	72 40 29	10	1.0	2.0	1.5	3,000	N	20	<50	20	200
83CH106C	43 19 26	72 30 6	10	2.0	2.0	>2.0	10,000	N	200	<50	30	100
84CH408C	43 19 28	72 36 10	10	5.0	5.0	1.5	7,000	N	100	50	50	100
82AN203M	43 19 29	72 39 31	15	1.0	2.0	>2.0	>10,000	N	200	70	30	700
82AN205C	43 19 31	72 39 27	10	1.0	2.0	>2.0	10,000	N	500	<50	30	1,500
82AN101C	43 19 36	72 43 24	10	2.0	2.0	>2.0	5,000	N	1,500	50	50	100
82AN116C	43 19 49	72 43 27	10	1.0	2.0	>2.0	7,000	N	2,000	50	50	200
82AN107M	43 19 51	72 41 52	15	.7	2.0	>2.0	>10,000	N	2,000	100	70	100
84CL409C	43 20 6	72 27 50	7	2.0	2.0	>2.0	7,000	N	30	50	30	50
82AN215C	43 20 8	72 41 8	10	1.0	2.0	>2.0	10,000	N	500	50	50	100
82AN108M	43 20 9	72 41 57	15	1.0	5.0	>2.0	>10,000	N	2,000	150	70	150
82AN216M	43 20 12	72 41 30	15	.7	2.0	>2.0	>10,000	N	1,000	100	50	150
82AN206C	43 20 25	72 39 59	10	1.0	2.0	>2.0	7,000	N	700	<50	50	7,000
83CH202C	43 20 32	72 34 37	10	1.0	2.0	2.0	5,000	N	200	<50	20	100
82AN202M	43 20 33	72 38 38	15	1.0	5.0	>2.0	>10,000	N	1,000	70	50	3,000
83CH107C	43 20 35	72 32 1	10	1.5	2.0	>2.0	10,000	N	200	<50	20	100
83CL121C	43 20 46	72 29 48	20	1.0	5.0	>2.0	10,000	N	1,000	150	50	100
84CL410C	43 20 48	72 28 36	7	2.0	2.0	1.5	7,000	N	20	50	30	70
82AN201C	43 20 49	72 38 16	10	1.0	2.0	>2.0	7,000	N	500	<50	30	7,000
83CL119C	43 20 58	72 26 21	20	1.0	5.0	>2.0	10,000	N	500	100	30	100
83CH108C	43 20 57	72 31 58	15	1.5	2.0	>2.0	10,000	N	200	<50	30	100
83CL120C	43 21 28	72 28 27	20	1.0	5.0	>2.0	10,000	N	500	150	30	150
83CH200C	43 21 33	72 36 27	10	2.0	2.0	1.5	10,000	N	50	<50	20	700
84CH406C	43 21 38	72 31 8	10	2.0	2.0	2.0	10,000	N	500	100	30	100
82AN221C	43 21 38	72 40 56	10	1.0	2.0	>2.0	10,000	N	200	<50	50	500
83CL132C	43 21 43	72 23 38	20	1.0	2.0	>2.0	>10,000	N	500	150	70	100
82AN100C	43 21 51	72 43 52	15	2.0	2.0	>2.0	5,000	N	2,000	50	70	200
83CH201C	43 21 52	72 36 12	10	1.0	1.5	2.0	10,000	N	200	<50	70	70
82AN222M	43 21 53	72 41 6	15	1.0	5.0	>2.0	>10,000	N	2,000	70	50	200
82AN200C	43 22 7	72 38 26	10	2.0	2.0	>2.0	7,000	N	700	<50	50	7,000
83CH109C	43 22 15	72 31 3	15	1.5	2.0	2.0	10,000	N	500	<50	30	150
83CL133C	43 22 16	72 17 6	20	1.5	2.0	>2.0	>10,000	N	500	150	50	100

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
82AN112C	10	N	N	<50	20	20	70	300	150	200	N	3
84CL406C	50	N	N	50	30	<20	50	300	150	150	--	--
83CL118C	70	100	N	100	20	20	70	700	500	200	--	--
84CH412C	50	50	N	N	20	<20	70	500	150	150	--	--
84CL403C	30	N	N	<50	30	<20	70	500	150	150	N	--
84CL418C	70	50	N	70	30	20	50	200	150	150	--	--
83CH205C	<10	N	N	50	10	N	70	300	100	200	N	N
82AN110C	50	50	N	<50	20	20	70	200	150	200	N	4
83CL115C	30	70	N	150	20	20	100	200	300	150	--	--
82AN111C	10	50	N	<50	20	30	70	500	150	200	N	3
84CL405C	30	150	N	70	30	<20	70	200	150	150	N	--
83CL117C	70	200	N	150	20	N	70	N	300	200	--	--
83CL116C	50	200	N	200	20	N	70	200	300	200	--	--
83CH206C	<10	N	N	<50	10	<20	50	300	100	100	N	N
83CH106C	10	N	N	50	10	<20	70	500	150	150	N	2
84CH408C	20	50	N	N	50	20	70	700	200	150	N	--
82AN203M	150	150	N	50	20	N	100	N	200	200	--	--
82AN205C	30	150	N	50	20	N	70	N	100	300	N	3
82AN101C	70	200	N	70	20	30	50	200	150	200	N	6
82AN116C	70	500	N	50	20	30	50	200	150	300	N	7
82AN107M	150	300	N	70	30	30	50	200	300	300	--	--
84CL409C	30	N	N	70	10	<20	50	200	100	70	N	--
82AN215C	50	150	N	50	20	<20	70	N	100	300	N	5
82AN108M	150	300	N	50	50	50	150	500	300	200	--	--
82AN216M	150	300	N	70	50	N	150	200	200	300	--	--
82AN206C	70	150	N	50	50	<20	70	200	100	200	N	13
83CH202C	<10	100	N	<50	10	<20	50	200	150	200	N	3
82AN202M	100	100	N	50	70	N	200	500	200	200	--	--
83CH107C	10	N	N	50	10	<20	70	200	100	200	N	1
83CL121C	70	50	N	70	20	<20	100	500	500	300	--	--
84CL410C	10	N	N	<50	30	<20	70	300	100	100	--	--
82AN201C	30	N	N	50	30	N	70	N	100	200	N	7
83CL119C	50	100	N	200	20	N	150	N	300	200	--	--
83CH108C	10	100	N	50	10	N	100	N	150	200	N	4
83CL120C	50	50	N	200	10	N	70	200	500	150	--	--
83CH200C	<10	N	N	<50	10	20	50	200	150	100	N	1
84CH406C	30	N	N	50	30	20	70	500	150	150	N	--
82AN221C	50	50	N	50	20	N	70	N	100	200	.004	11
83CL132C	200	100	N	200	50	20	70	N	200	200	--	--
82AN100C	100	700	N	70	50	20	50	200	100	200	N	14
83CH201C	70	70	N	<50	20	20	50	N	70	200	N	24
82AN222M	100	200	N	50	50	20	200	500	200	300	--	--
82AN200C	50	70	N	50	70	<20	70	N	150	200	N	42
83CH109C	10	N	N	50	10	N	100	N	150	200	N	3
83CL133C	150	N	N	150	20	N	70	N	200	200	--	--

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
82AN109C	43 22 18	72 41 34	10	2.0	2.0	>2.0	7,000	N	2,000	70	30	200
84CH405C	43 22 19	72 31 26	10	5.0	2.0	1.5	10,000	N	500	100	30	100
83CL102C	43 22 34	72 29 18	20	1.0	2.0	>2.0	10,000	N	200	200	30	200
82LD102C	43 22 45	72 42 59	10	2.0	2.0	2.0	3,000	N	2,000	100	70	150
82LD202M	43 22 53	72 38 55	15	1.0	2.0	>2.0	>10,000	N	700	70	70	5,000
83CA100C	43 23 3	72 31 30	15	1.5	2.0	2.0	10,000	N	200	<50	30	150
82LD206M	43 23 7	72 40 9	15	1.0	2.0	>2.0	>10,000	N	1,000	50	70	200
82LD205M	43 23 15	72 40 49	15	1.0	2.0	>2.0	>10,000	N	1,000	70	70	700
83CL128C	43 23 17	72 21 10	20	1.0	5.0	>2.0	>10,000	N	200	150	70	300
82LD201M	43 23 28	72 38 31	15	1.0	2.0	>2.0	>10,000	N	300	70	30	200
83CL131C	43 23 38	72 19 20	20	1.0	2.0	>2.0	>10,000	N	700	150	30	300
83CA107C	43 23 38	72 36 6	10	1.5	2.0	1.5	10,000	N	200	<50	50	100
82LD208M	43 23 38	72 40 14	15	.7	2.0	>2.0	>10,000	N	1,000	70	70	100
82LD207M	43 23 38	72 40 40	15	1.0	5.0	>2.0	>10,000	N	700	50	70	100
84CA204C	43 23 50	72 32 1	10	5.0	2.0	1.5	10,000	N	200	70	50	150
83CL134C	43 23 52	72 15 5	20	1.5	5.0	>2.0	>10,000	N	1,500	150	50	100
84CA205C	43 23 58	72 30 17	10	2.0	2.0	1.5	10,000	N	700	70	50	70
83CL100C	43 24 25	72 27 6	20	1.0	2.0	>2.0	10,000	N	200	300	30	100
83CA114C	43 24 26	72 33 58	10	1.0	2.0	2.0	10,000	N	200	<50	70	70
83CA101C	43 24 33	72 30 12	15	1.5	2.0	>2.0	10,000	N	100	<50	20	100
83CA113C	43 24 45	72 35 3	15	1.5	2.0	>2.0	10,000	N	200	<50	70	200
83CL103C	43 24 53	72 25 13	20	1.0	5.0	>2.0	10,000	N	200	150	20	100
83CA108C	43 24 55	72 36 27	15	1.5	2.0	1.5	10,000	1,000	100	<50	70	100
82LD209M	43 24 55	72 39 7	15	1.0	2.0	>2.0	>10,000	N	1,000	70	70	100
83CL129C	43 24 57	72 23 10	20	1.0	5.0	>2.0	>10,000	N	200	150	50	200
82LD101C	43 25 12	72 42 12	10	2.0	2.0	2.0	2,000	N	2,000	50	70	200
83CL101C	43 25 16	72 27 14	20	1.0	5.0	2.0	10,000	N	500	300	30	150
84CL400C	43 25 20	72 28 17	10	7.0	5.0	2.0	7,000	N	100	100	20	50
82LD210M	43 25 26	72 39 22	15	.7	2.0	>2.0	>10,000	N	300	700	70	150
83CL130L	43 26 10	72 19 38	20	1.5	5.0	>2.0	>10,000	N	200	100	50	200
83CL104C	43 26 10	72 24 20	20	1.0	5.0	>2.0	10,000	N	200	150	30	150
82LD100C	43 26 13	72 43 46	10	2.0	2.0	2.0	3,000	N	1,000	50	30	150
83CA103C	43 26 14	72 31 11	15	2.0	2.0	>2.0	10,000	N	100	<50	20	50
83CL127C	43 26 48	72 17 38	20	1.0	2.0	>2.0	>10,000	N	500	150	30	200
83CA112C	43 26 51	72 34 52	10	1.5	5.0	.7	10,000	N	100	<50	10	100
82LD212M	43 26 56	72 39 5	15	1.0	2.0	>2.0	>10,000	N	300	150	70	100
83CL106C	43 27 0	72 25 2	20	1.0	5.0	>2.0	10,000	N	200	150	30	100
82LD103C	43 27 0	72 41 41	10	2.0	5.0	2.0	5,000	N	500	100	70	150
82LD215M	43 27 1	72 39 22	15	.7	2.0	>2.0	>10,000	N	200	100	50	150
82LD215M	43 27 2	72 39 22	15	.7	2.0	>2.0	>10,000	N	200	100	50	150
83CL107C	43 27 12	72 25 9	20	1.0	5.0	>2.0	10,000	N	200	150	30	70
82LD109C	43 27 20	72 42 24	10	1.0	2.0	2.0	10,000	N	500	200	50	70
82LD216M	43 27 25	72 39 53	15	.7	1.5	2.0	>10,000	N	100	100	30	150
82LD218M	43 27 35	72 38 54	15	1.0	2.0	>2.0	>10,000	N	150	70	50	100
82LD219M	43 27 38	72 38 56	15	.7	2.0	>2.0	>10,000	N	150	100	30	100

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
82AN109C	70	100	N	50	30	30	50	200	150	200	.002	5
84CH405C	50	N	N	50	30	20	70	200	150	150	N	--
83CL102C	50	50	N	200	10	N	70	200	500	150	--	--
82LD102C	70	200	N	50	50	30	50	200	100	500	N	9
82LD202M	50	500	N	50	70	20	70	N	200	300	--	--
83CA100C	20	N	N	50	10	N	100	N	150	300	.006	5
82LD206M	150	200	N	50	50	20	70	200	200	200	--	--
82LD205M	100	50	N	50	50	20	70	N	200	200	--	--
83CL128C	150	100	N	50	50	<20	100	N	500	200	--	--
82LD201M	30	N	N	50	20	N	70	N	200	200	--	--
83CL131C	30	50	N	70	20	<20	100	N	200	300	--	--
83CA107C	70	70	N	<50	30	<20	70	200	150	200	N	34
82LD208M	150	100	N	50	30	N	100	N	200	300	--	--
82LD207M	150	150	N	N	50	20	70	200	200	200	--	--
84CA204C	70	N	N	N	50	20	70	200	150	150	--	--
83CL134C	100	N	N	150	50	<20	70	N	200	200	--	--
84CA205C	50	N	N	50	30	<20	70	200	100	200	N	--
83CL100C	50	50	N	200	10	N	70	N	500	150	--	--
83CA114C	30	50	N	N	10	20	70	200	100	200	N	14
83CA101C	15	N	N	70	10	N	100	N	150	200	N	1
83CA113C	30	N	N	N	20	<20	70	200	150	200	N	10
83CL103C	30	200	20	150	30	100	100	N	200	200	--	--
83CA108C	70	N	N	<50	20	20	70	N	100	200	N	230
82LD209M	150	150	N	70	30	N	70	200	200	300	--	--
83CL129C	100	70	10	<50	70	<20	70	N	500	150	--	--
82LD101C	50	150	N	50	20	30	50	500	100	300	N	7
83CL101C	30	700	N	300	50	N	100	N	200	200	--	--
84CL400C	30	50	N	70	20	<20	70	N	150	100	N	--
82LD210M	150	300	N	50	30	150	70	200	200	300	.002	--
83CL130L	150	N	N	<50	50	20	70	200	700	150	--	--
83CL104C	30	200	N	150	10	N	100	N	200	200	--	--
82LD100C	20	200	N	<50	20	20	50	500	100	200	N	4
83CA103C	20	N	N	100	10	N	70	N	150	100	N	1
83CL127C	100	N	N	100	50	N	70	N	200	200	--	--
83CA112C	<10	N	N	<50	10	<20	70	200	100	200	N	N
82LD212M	150	N	N	50	30	N	70	200	200	300	--	--
83CL106C	200	1,000	N	500	30	30	100	N	200	200	--	--
82LD103C	70	200	N	<50	20	50	70	500	100	200	.002	12
82LD215M	50	N	N	N	20	N	70	N	200	300	--	--
82LD215M	50	N	N	N	20	N	70	N	200	300	.006	--
83CL107C	100	500	N	200	20	N	100	N	200	200	--	--
82LD109C	50	100	N	N	50	50	70	200	70	200	N	26
82LD216M	20	50	N	N	20	N	70	N	200	200	--	--
82LD218M	50	70	N	<50	20	N	70	200	300	200	--	--
82LD219M	50	N	N	50	20	N	100	200	300	200	--	--

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
83CL108C	43 27 50	72 26 6	20	1.6	5.0	>2.0	10,000	N	200	150	50	100
83CL123C	43 27 54	72 22 0	20	1.0	2.0	2.0	>10,000	N	500	150	70	150
83CA111C	43 28 7	72 34 17	10	1.5	5.0	.7	10,000	N	100	<50	20	500
82LD104C	43 28 11	72 41 36	10	1.0	2.0	2.0	10,000	N	300	100	70	100
83CA109C	43 28 15	72 36 24	10	1.5	2.0	1.5	10,000	N	100	<50	30	70
83CL126C	43 28 34	72 17 14	20	1.0	5.0	>2.0	>10,000	N	500	150	70	300
82LD106C	43 28 34	72 41 43	15	1.0	2.0	2.0	10,000	N	100	<50	30	100
82LD108C	43 28 34	72 43 26	15	1.0	2.0	2.0	10,000	N	200	50	50	200
82LD107C	43 28 38	72 43 9	10	2.0	5.0	2.0	5,000	N	1,000	70	30	100
83CA104C	43 28 44	72 30 54	10	2.0	2.0	.7	10,000	N	100	<50	10	70
83CL109C	43 28 54	72 29 2	20	1.0	5.0	>2.0	10,000	N	200	150	30	100
83CA110C	43 28 57	72 36 3	10	1.5	2.0	.5	10,000	N	100	<50	20	70
83CL110C	43 29 2	72 28 10	20	1.0	5.0	2.0	>10,000	N	200	150	20	100
83CL105C	43 29 6	72 24 21	20	1.0	5.0	>2.0	10,000	N	200	150	30	100
83CL125C	43 29 10	72 18 56	15	1.5	5.0	>2.0	7,000	N	200	100	50	300
83CL124C	43 29 21	72 20 18	15	2.0	5.0	2.0	5,000	N	150	100	70	200
83CL122C	43 29 30	72 22 42	20	1.0	5.0	>2.0	10,000	N	300	100	30	300
82LD220M	43 29 33	72 39 18	15	.7	2.0	>2.0	>10,000	N	150	100	50	100
82LD105C	43 29 33	72 39 19	15	1.0	2.0	2.0	10,000	N	100	<50	30	200
82PY100C	43 30 3	72 43 31	10	2.0	2.0	2.0	2,000	N	500	<50	70	70
84CH411C	43 30 7	72 31 14	10	5.0	5.0	1.5	7,000	N	200	50	20	300
83WS106C	43 30 14	72 33 51	10	1.0	1.5	1.0	10,000	N	50	N	10	150
82PY101C	43 30 26	72 43 56	10	2.0	2.0	2.0	2,000	N	500	<50	70	70
83WS104C	43 30 28	72 31 12	10	1.0	2.0	1.0	10,000	N	50	N	10	100
83WS107C	43 30 36	72 34 58	10	1.0	1.5	>2.0	10,000	N	30	N	30	50
82PY113C	43 30 56	72 39 42	10	.5	1.0	1.5	7,000	N	20	<50	20	100
82PY114C	43 30 58	72 39 36	10	.5	1.0	1.5	7,000	N	20	<50	20	70
82PY112C	43 31 33	72 40 13	10	.5	1.0	1.5	7,000	N	20	<50	20	200
82PY111M	43 31 33	72 40 39	15	.7	2.0	>2.0	>10,000	N	100	70	30	150
82PY110C	43 31 48	72 40 59	10	.5	1.0	1.5	7,000	N	20	<50	30	100
83WS105C	43 31 58	72 30 12	10	1.0	2.0	>2.0	10,000	N	50	N	10	100
82PY115C	43 32 8	72 39 27	10	.5	1.0	1.5	7,000	N	50	<50	20	70
82PY105C	43 32 10	72 43 2	10	.5	1.0	2.0	7,000	N	500	100	30	100
82PY106C	43 32 15	72 43 36	10	.5	1.0	2.0	7,000	N	50	<50	20	200
82PY102C	43 32 18	72 44 45	10	2.0	2.0	2.0	5,000	N	500	<50	70	70
82PY116C	43 32 26	72 39 16	10	.5	1.0	1.5	7,000	N	50	<50	50	70
83WS103C	43 32 35	72 33 17	10	1.0	1.5	>2.0	10,000	N	50	N	10	70
83WS102C	43 32 51	72 33 28	10	1.5	1.5	1.0	10,000	N	50	N	30	100
82PY118M	43 32 58	72 39 41	15	.7	2.0	2.0	>10,000	N	100	70	30	150
82PY117C	43 33 0	72 39 32	10	.7	1.0	1.5	7,000	N	50	<50	30	70
83WS101C	43 33 17	72 33 12	10	1.0	1.5	>2.0	10,000	N	50	N	20	70
83CA105C	43 29 30	72 33 27	10	2.0	2.0	1.0	10,000	N	100	<50	30	70
82PY107C	43 33 37	72 42 14	10	1.0	1.0	2.0	7,000	N	100	100	50	700
82PY119C	43 33 52	72 39 42	10	1.0	1.0	1.5	7,000	N	20	<50	30	100
82PY108C	43 33 53	72 41 19	10	.5	1.0	2.0	7,000	N	20	<50	20	100

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
83CL108C	150	100	N	150	30	N	70	200	300	150	--	--
83CL123C	150	N	N	50	50	20	100	N	200	200	--	--
83CA111C	10	N	N	N	10	N	70	N	100	200	N	N
82LD104C	200	150	N	<50	20	20	50	200	100	200	N	24
83CA109C	30	N	N	N	10	N	70	N	100	200	N	9
83CL126C	200	N	N	100	50	20	70	N	300	200	--	--
82LD106C	50	N	N	<50	20	N	70	N	100	300	.002	40
82LD108C	50	50	N	<50	20	20	70	200	70	200	N	11
82LD107C	50	150	N	<50	30	20	50	500	100	200	N	8
83CA104C	10	N	N	<50	10	N	100	N	70	200	N	2
83CL109C	20	N	N	50	20	N	150	N	150	200	--	--
83CA110C	10	N	N	N	10	N	70	N	70	200	--	3
83CL110C	20	N	N	50	20	N	150	N	150	200	--	--
83CL105C	30	50	N	70	30	N	100	N	200	200	--	--
83CL125C	100	N	N	N	50	N	70	N	700	150	--	--
83CL124C	150	N	N	N	70	20	70	200	700	100	--	--
83CL122C	20	N	N	50	50	N	150	N	500	300	--	--
82LD220M	150	N	N	<50	20	N	100	N	200	200	--	--
82LD105C	100	N	N	50	10	N	70	N	100	300	1.100	35
82PY100C	20	50	N	<50	30	20	30	500	70	150	.180	6
84CH411C	<10	N	N	N	20	<20	70	500	150	150	N	--
83WS106C	10	N	N	N	10	N	100	N	100	200	N	1
82PY101C	70	100	N	<50	50	20	20	200	70	150	.004	11
83WS104C	10	N	N	N	10	N	100	N	100	200	N	1
83WS107C	50	N	N	50	10	N	70	N	150	150	N	3
82PY113C	10	N	N	N	10	N	50	N	70	200	N	5
82PY114C	30	N	N	<50	10	N	50	N	100	200	.002	5
82PY112C	10	N	N	N	20	N	50	N	70	200	.002	25
82PY111M	100	N	N	50	20	N	150	N	200	200	--	--
82PY110C	30	N	N	<50	10	N	50	N	70	200	N	8
83WS105C	10	N	N	50	10	N	100	N	100	200	N	2
82PY115C	30	N	N	N	10	N	50	N	100	150	N	5
82PY105C	70	150	N	<50	50	20	20	N	70	200	N	14
82PY106C	10	N	N	<50	10	N	50	N	70	200	N	2
82PY102C	70	150	N	<50	30	20	30	200	70	150	.004	9
82PY116C	10	N	N	<50	10	N	50	N	100	100	.030	4
83WS103C	10	N	N	50	10	N	100	N	100	200	N	1
83WS102C	20	N	N	N	20	N	100	N	150	200	N	3
82PY118M	50	N	N	N	20	N	150	N	200	300	--	--
82PY117C	20	N	N	<50	10	N	50	N	70	150	N	5
83WS101C	30	70	N	50	10	N	100	N	150	200	.002	4
83CA105C	30	N	N	N	20	N	70	N	100	200	N	3
82PY107C	70	N	N	<50	30	50	20	200	100	100	.002	14
82PY119C	20	N	N	N	10	N	50	N	100	150	N	4
82PY108C	50	N	N	<50	30	<20	50	N	100	150	N	29

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
82PY104C	43 34 2	72 44 1	10	1.0	.2	1.0	5,000	N	200	150	70	100
82PY103C	43 34 3	72 44 10	10	.5	.5	2.0	2,000	N	500	100	70	70
83WS111C	43 34 14	72 37 19	10	1.0	2.0	>2.0	10,000	N	100	N	30	70
83WS109C	43 34 18	72 35 24	10	1.0	1.0	>2.0	10,000	N	100	N	20	70
82PY109C	43 34 36	72 39 48	10	.5	1.0	1.0	7,000	N	20	<50	20	50
82ST251M	43 35 6	72 19 48	15	1.0	5.0	>2.0	>10,000	N	300	70	20	200
82PY120C	43 35 24	72 39 51	10	.5	.5	2.0	7,000	N	20	<50	30	100
83WS100C	43 35 26	72 30 53	10	1.0	1.5	1.5	10,000	N	50	N	20	100
82LD210M	43 35 26	72 39 22	15	.7	2.0	>2.0	>10,000	N	300	700	70	150
82PY127C	43 35 36	72 42 0	10	1.0	1.0	2.0	5,000	N	100	100	50	150
83WS110C	43 35 38	72 33 38	10	1.0	2.0	1.5	10,000	N	50	N	20	200
82PY128C	43 35 39	72 42 36	10	1.0	1.0	2.0	7,000	N	100	100	70	5,000
82PY126C	43 35 50	72 41 28	10	1.0	1.0	2.0	7,000	N	50	200	50	200
82PY130C	43 35 50	72 43 14	10	1.0	1.0	2.0	5,000	N	200	100	70	10,000
82PY125M	43 35 54	72 40 27	15	.7	1.5	>2.0	>10,000	N	300	150	50	150
82PY129C	43 36 2	72 42 50	10	1.0	1.0	2.0	5,000	N	100	100	50	200
82PY131C	43 36 7	72 43 44	10	1.0	1.0	2.0	5,000	N	500	200	70	200
82PY132C	43 36 14	72 43 51	10	1.0	1.0	2.0	3,000	N	100	100	70	100
82PY121C	43 36 42	72 39 15	10	.5	1.0	2.0	7,000	N	20	<50	50	70
83WS113C	43 37 0	72 33 55	10	1.0	2.0	2.0	10,000	N	50	N	10	100
82PY124C	43 37 3	72 39 6	10	.7	1.0	1.0	7,000	N	20	<50	30	100
82PY122C	43 37 11	72 39 47	10	.5	1.0	1.0	7,000	N	20	50	30	100
83WS112C	43 37 12	72 35 11	10	1.5	2.0	1.0	10,000	N	100	N	20	100
83DM118C	43 37 38	72 42 16	10	1.5	.5	>2.0	5,000	<500	50	200	70	150
83HN106L	43 37 43	72 16 17	20	1.5	5.0	>2.0	>10,000	N	700	70	30	300
83DM117C	43 37 48	72 43 13	10	1.0	1.0	>2.0	5,000	500	100	300	100	150
83DM116C	43 37 51	72 43 12	10	1.0	.7	>2.0	10,000	700	100	N	100	100
82PY123C	43 37 53	72 40 58	10	.5	.5	1.5	7,000	N	50	100	50	100
83HN105L	43 38 12	72 21 2	20	1.0	5.0	>2.0	>10,000	N	500	100	20	300
83WN108C	43 38 39	72 30 27	10	1.0	2.0	>2.0	7,000	N	100	N	20	70
83HN107L	43 38 45	72 16 48	20	1.5	5.0	>2.0	>10,000	N	700	100	30	300
83DM113C	43 38 46	72 39 28	10	1.0	1.5	>2.0	10,000	N	100	N	50	100
83WS108C	43 35 47	72 31 37	10	1.0	2.0	1.0	10,000	N	100	N	10	70
83WN100C	43 38 48	72 32 40	10	1.0	2.0	2.0	7,000	N	100	N	20	100
83WN101C	43 38 49	72 34 26	10	1.0	2.0	1.0	10,000	N	50	N	30	100
83HN104L	43 39 6	72 21 43	20	1.0	5.0	>2.0	>10,000	N	500	100	30	200
83DM115C	43 39 8	72 41 44	7	1.0	1.0	>2.0	10,000	N	200	300	50	150
83WN102C	43 39 36	72 34 42	10	1.0	1.0	>2.0	7,000	N	50	N	20	200
83DM114C	43 39 40	72 41 43	10	.7	1.5	>2.0	>10,000	N	50	N	70	70
83WN109C	43 39 48	72 31 48	15	1.5	1.5	>2.0	10,000	N	100	N	20	150
83WN104C	43 40 26	72 35 56	10	1.0	2.0	>2.0	10,000	N	100	N	50	150
83WN103C	43 40 27	72 36 11	10	1.0	2.0	2.0	10,000	N	50	N	30	100
83HN100L	43 40 39	72 20 20	20	1.5	5.0	>2.0	>10,000	N	700	150	50	200
83WN110C	43 40 46	72 31 59	15	1.0	1.5	>2.0	10,000	N	150	N	30	150
83HN103L	43 40 51	72 21 47	20	1.0	5.0	>2.0	>10,000	N	500	100	30	200

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
82PY104C	20	150	N	N	70	20	20	200	100	100	.004	11
82PY103C	100	200	N	50	70	20	15	200	50	150	.250	60
83WS111C	50	N	N	50	15	N	100	N	150	200	N	4
83WS109C	30	N	N	50	20	N	100	N	100	200	N	4
82PY109C	30	N	N	N	10	N	50	N	70	200	N	7
82ST251M	20	N	N	100	10	N	70	N	200	150	--	--
82PY120C	100	50	N	50	20	N	30	N	50	150	.004	16
83WS100C	10	N	N	<50	10	N	100	N	150	200	N	5
82LD210M	150	300	N	50	30	150	70	200	200	300	--	--
82PY127C	100	150	N	<50	70	20	20	N	70	200	.004	50
83WS110C	20	N	N	N	20	N	100	N	100	200	N	3
82PY128C	100	150	N	50	50	20	15	N	70	100	.002	22
82PY126C	70	200	N	<50	70	20	30	N	70	200	.002	52
82PY130C	100	200	N	50	70	20	20	200	100	150	.004	17
82PY125M	150	70	N	70	50	N	150	N	200	500	--	--
82PY129C	70	150	N	<50	70	20	20	N	70	100	N	22
82PY131C	70	150	N	<50	70	30	20	200	70	150	.004	14
82PY132C	70	150	N	50	50	30	20	200	100	100	N	12
82PY121C	50	N	N	<50	20	N	50	N	100	100	.004	5
83WS113C	10	N	N	50	10	N	100	N	100	200	N	N
82PY124C	30	N	N	N	20	N	50	N	100	100	.002	4
82PY122C	50	N	N	N	20	N	50	N	100	150	.002	10
83WS112C	10	N	N	N	20	N	100	N	100	200	N	2
83DM118C	150	150	N	70	70	30	30	N	100	200	.012	400
83HN106L	70	200	N	50	30	<20	70	200	500	200	--	--
83DM117C	150	200	N	<50	70	30	30	200	100	150	N	520
83DM116C	150	200	N	50	100	30	30	N	150	200	N	730
82PY123C	70	N	N	<50	30	20	20	N	70	150	.006	39
83HN105L	70	N	N	50	20	N	150	N	200	300	--	--
83WN108C	10	100	N	70	20	N	100	N	100	200	N	1
83HN107L	100	200	30	70	50	30	100	200	500	200	--	--
83DM113C	70	N	N	N	20	<20	100	N	150	200	N	18
83WS108C	10	N	N	N	10	N	100	N	100	150	N	4
83WN100C	20	N	N	50	10	N	100	N	100	200	N	1
83WN101C	10	N	N	N	20	N	100	N	100	200	N	2
83HN104L	70	N	N	50	20	N	150	N	150	300	--	--
83DM115C	70	50	N	50	70	20	50	200	150	100	--	56
83WN102C	30	N	N	70	20	N	100	N	100	200	N	3
83DM114C	20	N	N	<50	N	N	100	N	150	200	N	6
83WN109C	10	N	N	70	10	N	100	N	100	200	N	N
83WN104C	50	N	N	50	20	N	100	N	100	200	.002	4
83WN103C	30	N	N	N	50	N	100	N	100	200	N	5
83HN100L	100	N	N	70	50	N	100	N	300	200	--	--
83WN110C	30	N	N	70	30	<20	100	N	100	300	N	3
83HN103L	50	N	N	70	20	N	150	N	200	200	--	--

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
83WN111C	43 40 59	72 30 57	15	1.0	1.5	>2.0	10,000	N	50	N	20	150
83DM107C	43 41 9	72 43 4	15	.7	1.5	>2.0	10,000	N	100	N	50	200
83WN107C	43 41 15	72 33 44	10	.5	2.0	2.0	7,000	N	100	N	20	100
83HN102L	43 41 23	72 19 44	20	1.0	5.0	>2.0	>10,000	N	500	150	30	200
83WN105C	43 41 37	72 36 43	10	1.0	2.0	>2.0	10,000	N	100	N	50	100
83DM106C	43 41 40	72 43 8	7	1.0	1.0	>2.0	10,000	N	50	100	30	200
83WN112C	43 41 47	72 31 13	15	1.5	1.5	>2.0	7,000	N	20	N	30	150
83DM111C	43 42 2	72 38 51	10	1.0	1.5	>2.0	>10,000	N	100	N	50	150
83DM105C	43 42 24	72 43 22	7	1.0	1.0	>2.0	10,000	N	20	200	50	200
83WN106C	43 42 28	72 34 52	10	1.0	2.0	>2.0	7,000	N	100	N	20	100
83DM110C	43 42 39	72 38 56	10	.5	1.5	>2.0	>10,000	N	200	N	30	150
83HN101L	43 42 43	72 21 10	20	1.0	5.0	>2.0	>10,000	N	200	150	30	200
83DM104C	43 42 45	72 43 13	10	.5	1.0	>2.0	10,000	N	50	N	30	200
83HN113C	43 43 4	72 19 48	20	1.5	5.0	>2.0	>10,000	N	500	100	30	300
83HN108L	43 43 12	72 15 59	20	1.5	5.0	>2.0	>10,000	N	150	70	30	200
83WN113C	43 43 33	72 33 17	15	1.0	1.5	>2.0	7,000	N	50	N	20	150
83WN115C	43 43 47	72 30 7	15	1.0	2.0	>2.0	10,000	N	50	N	30	200
83DM103C	43 43 56	72 42 41	10	.5	1.0	>2.0	>10,000	N	50	N	30	300
83DM101C	43 44 1	72 44 10	7	1.0	1.0	2.0	10,000	N	50	300	30	200
83DM109C	43 44 2	72 38 36	10	.7	1.5	1.5	10,000	N	20	N	30	100
83HN111C	43 44 5	72 18 58	20	1.5	5.0	>2.0	>10,000	N	500	150	30	200
83DM102C	43 44 5	72 44 12	10	1.0	1.0	>2.0	10,000	N	100	200	50	300
83HN110C	43 44 7	72 19 50	20	1.5	5.0	>2.0	>10,000	N	500	100	30	200
83DM100C	43 44 21	72 43 18	10	.7	2.0	>2.0	10,000	N	100	N	30	200
83HN112C	43 44 37	72 19 24	20	1.5	5.0	>2.0	>10,000	N	500	150	30	300
83DM108C	43 44 43	72 39 45	10	.7	1.5	2.0	10,000	N	50	N	30	100
83HN109L	43 44 45	72 16 17	20	1.5	5.0	>2.0	>10,000	N	500	150	30	300
83DM112C	43 44 55	72 37 58	10	.5	1.5	1.5	>10,000	N	20	N	30	70
83RC100C	43 45 3	72 49 38	15	.5	.5	>2.0	3,000	N	700	200	70	70
83RA204C	43 45 19	72 33 50	10	.5	2.0	>2.0	7,000	N	50	N	20	70
83RA201C	43 45 30	72 32 18	10	1.0	2.0	>2.0	7,000	N	50	N	20	100
83RA242C	43 45 53	72 38 50	7	1.0	2.0	>2.0	10,000	N	20	N	50	100
82ST248M	43 46 1	72 18 9	15	1.0	5.0	>2.0	>10,000	N	150	50	20	150
83RA206C	43 46 12	72 42 18	10	1.0	2.0	>2.0	10,000	N	50	N	30	300
83RC105C	43 46 18	72 45 46	10	1.0	1.0	>2.0	5,000	N	200	N	30	200
82ST256M	43 46 21	72 15 35	15	1.0	2.0	>2.0	>10,000	N	150	100	30	150
82ST207M	43 46 23	72 22 24	15	1.0	5.0	>2.0	>10,000	N	300	50	20	150
82ST246M	43 46 30	72 20 36	15	1.0	5.0	>2.0	>10,000	N	100	50	20	150
82ST247M	43 46 32	72 19 31	15	1.0	5.0	>2.0	>10,000	N	200	50	20	150
83RC101C	43 46 36	72 51 0	10	.5	.2	>2.0	3,000	N	500	300	70	70
83RC102C	43 46 37	72 51 22	20	.2	.5	>2.0	3,000	N	700	N	100	70
83RA200C	43 46 48	72 31 34	10	.5	2.0	>2.0	10,000	N	30	N	20	100
82ST245M	43 46 59	72 18 14	15	1.0	5.0	>2.0	>10,000	N	300	50	30	150
83RC103C	43 47 10	72 48 15	10	1.0	.5	2.0	2,000	N	200	100	50	100
83RA212C	43 47 12	72 39 0	10	1.0	2.0	>2.0	10,000	N	50	N	30	200

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
83WN111C	20	N	N	50	10	N	100	N	100	300	N	2
83DM107C	30	N	N	70	30	20	100	N	150	200	N	17
83WN107C	10	N	N	50	10	N	100	N	70	200	N	1
83HN102L	20	N	N	70	20	N	150	N	200	300	--	--
83WN105C	50	N	N	50	20	N	100	N	100	200	.004	10
83DM106C	70	N	N	50	30	<20	50	N	150	150	.002	56
83WN112C	20	N	N	70	30	N	100	N	100	200	N	N
83DM111C	70	N	N	50	20	N	100	N	150	200	N	24
83DM105C	70	N	N	N	50	20	50	N	150	150	N	46
83WN106C	50	N	N	70	20	N	100	N	100	200	N	2
83DM110C	70	N	N	50	20	N	100	N	150	200	.002	43
83HN101L	20	N	N	50	20	N	150	N	200	300	--	--
83DM104C	70	N	N	70	20	N	70	N	150	150	N	29
83HN113C	70	N	N	50	30	N	100	N	200	200	--	--
83HN108L	70	N	N	50	20	N	70	N	300	300	--	--
83WN113C	10	N	N	50	10	N	150	N	70	200	N	N
83WN115C	10	N	N	50	10	N	150	N	70	200	N	1
83DM103C	70	N	N	50	30	N	100	N	150	300	N	23
83DM101C	50	50	N	50	70	20	50	200	150	100	N	21
83DM109C	70	N	N	N	15	N	100	N	100	200	N	21
83HN111C	150	N	N	70	30	N	150	N	200	300	--	--
83DM102C	70	70	N	70	70	20	50	200	150	200	.002	20
83HN110C	100	N	N	50	20	N	150	N	150	200	--	--
83DM100C	70	70	N	70	50	<20	70	200	150	150	N	18
83HN112C	150	N	N	50	30	N	150	N	200	500	--	--
83DM108C	300	N	N	<50	20	N	100	N	150	200	N	15
83HN109L	100	N	N	70	20	N	100	N	200	300	--	--
83DM112C	20	N	N	<50	10	N	100	N	100	200	N	13
83RC100C	70	500	N	70	50	30	20	N	150	1,000	--	27
83RA204C	30	N	N	70	10	N	150	N	70	200	N	2
83RA201C	10	N	N	50	10	N	150	N	100	500	N	4
83RA242C	70	N	N	50	20	<20	70	N	150	150	.004	10
82ST248M	30	N	N	50	20	N	70	N	200	200	--	--
83RA206C	70	N	N	50	50	N	100	N	100	200	N	18
83RC105C	70	150	N	50	30	20	50	200	200	150	N	17
82ST256M	30	N	N	70	20	N	100	N	200	300	--	--
82ST207M	10	N	N	50	20	N	70	N	200	200	--	--
82ST246M	150	N	N	50	20	N	70	N	200	150	--	--
82ST247M	30	N	N	50	30	N	100	N	300	200	--	--
83RC101C	100	700	N	70	50	20	15	N	150	150	N	36
83RC102C	100	500	N	70	50	20	15	N	150	300	N	24
83RA200C	10	N	N	50	10	N	150	N	100	300	N	1
82ST245M	20	N	N	<50	20	N	100	N	200	200	--	--
83RC103C	100	200	N	50	50	30	15	N	70	100	N	24
83RA212C	50	N	N	70	10	N	100	N	150	200	N	3

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
83RC106C	43 47 19	72 44 34	7	1.0	1.5	>2.0	10,000	N	50	N	30	200
83RC104C	43 47 40	72 48 17	10	1.0	1.0	>2.0	2,000	N	700	N	100	200
82ST249M	43 47 42	72 16 57	15	2.0	5.0	>2.0	>10,000	N	500	50	30	150
82ST208M	43 47 52	72 26 23	15	2.0	5.0	>2.0	>10,000	N	300	50	30	150
83RA203C	43 47 58	72 35 8	10	.5	2.0	>2.0	10,000	N	50	N	20	100
83RA207C	43 48 0	72 41 8	7	1.0	2.0	>2.0	7,000	N	50	N	30	300
83RA202C	43 48 21	72 33 25	10	1.0	2.0	>2.0	7,000	N	50	N	20	300
82ST242M	43 48 35	72 22 12	15	1.0	5.0	>2.0	>10,000	N	200	50	30	150
82ST244M	43 48 42	72 19 42	15	1.0	5.0	>2.0	>10,000	N	300	50	30	150
83RA205C	43 48 44	72 38 8	10	.5	2.0	>2.0	10,000	N	50	N	20	100
83RC107C	43 48 45	72 47 1	10	.5	.5	>2.0	10,000	N	150	N	50	100
82ST240M	43 48 52	72 25 6	15	2.0	5.0	>2.0	>10,000	N	200	50	30	100
82ST241M	43 48 54	72 22 19	15	1.0	5.0	>2.0	>10,000	N	200	50	30	150
83RA208C	43 49 17	72 41 35	10	1.5	2.0	>2.0	7,000	N	50	N	30	300
83RA238C	43 49 24	72 32 59	10	1.0	2.0	>2.0	7,000	N	50	N	20	100
83RA209C	43 49 34	72 43 25	10	1.5	2.0	>2.0	10,000	N	50	200	30	500
82ST253M	43 49 38	72 17 9	15	.7	2.0	>2.0	>10,000	N	150	50	20	150
83RA211C	43 49 40	72 38 59	10	.5	2.0	>2.0	10,000	N	50	N	30	500
83RC108C	43 49 50	72 46 18	10	2.0	2.0	>2.0	5,000	N	100	N	70	200
83RC109C	43 49 50	72 48 2	10	1.0	2.0	>2.0	3,000	N	100	N	50	150
82ST209M	43 49 51	72 23 18	15	1.0	5.0	>2.0	>10,000	N	200	50	30	300
82ST252M	43 49 56	72 17 42	15	1.0	2.0	>2.0	>10,000	N	200	70	30	150
82ST243M	43 50 5	72 20 54	15	1.0	5.0	>2.0	>10,000	N	200	50	30	150
83RC114C	43 50 6	72 51 53	10	.5	.5	>2.0	5,000	N	500	200	70	70
83RC115C	43 50 6	72 51 55	10	.5	.5	>2.0	2,000	N	500	200	70	100
82ST268M	43 50 18	72 21 3	15	1.0	2.0	>2.0	>10,000	N	200	50	30	150
83RA239C	43 50 20	72 34 5	10	.5	1.0	>2.0	7,000	N	50	N	20	100
83RC113C	43 50 34	72 51 12	15	.5	.5	>2.0	5,000	N	500	200	70	70
82ST210M	43 50 59	72 23 24	15	2.0	5.0	>2.0	>10,000	N	300	50	30	150
83RA210C	43 51 3	72 42 21	10	1.5	2.0	1.5	5,000	N	50	300	50	500
82ST269M	43 51 12	72 22 0	15	2.0	5.0	>2.0	>10,000	N	150	50	50	150
83RC110C	43 51 12	72 47 47	10	1.0	1.5	>2.0	7,000	N	100	200	70	500
83RC112C	43 51 12	72 50 23	15	1.0	2.0	>2.0	5,000	N	200	200	50	200
82ST255M	43 51 36	72 16 23	15	.7	2.0	>2.0	>10,000	N	150	50	30	300
83RA235C	43 51 41	72 32 36	10	.5	1.0	>2.0	7,000	N	50	N	20	200
83RA240C	43 51 45	72 34 17	10	.5	1.0	>2.0	7,000	N	50	N	20	500
83RC111C	43 51 52	72 48 20	10	1.0	2.0	>2.0	5,000	N	200	N	70	500
82ST257M	43 52 6	72 19 54	15	.7	2.0	>2.0	>10,000	N	200	100	30	500
83RA236C	43 52 10	72 35 47	10	.5	1.0	>2.0	7,000	N	50	N	20	70
82ST211M	43 52 14	72 23 28	15	2.0	5.0	>2.0	>10,000	N	300	50	30	150
82ST212M	43 52 20	72 23 30	15	1.5	5.0	>2.0	>10,000	N	300	50	30	200
83RA213C	43 52 30	72 42 24	7	1.5	2.0	1.5	3,000	N	20	N	30	500
83RA214C	43 52 37	72 42 22	7	1.5	2.0	1.5	5,000	N	20	N	30	300
83RA234C	43 52 49	72 30 52	10	1.0	1.0	>2.0	7,000	N	50	N	20	200
83RA215C	43 52 58	72 42 44	7	2.0	2.0	1.0	2,000	N	20	200	30	300

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
83RC106C	70	N	N	50	50	<20	50	200	200	100	N	33
83RC104C	100	100	N	50	30	<20	50	200	500	100	N	23
82ST249M	10	N	N	<50	30	N	70	N	200	150	--	--
82ST208M	50	N	N	50	30	N	70	N	300	150	--	--
83RA203C	10	N	N	70	10	N	150	N	70	300	N	2
83RA207C	70	N	N	50	70	30	50	200	150	100	N	32
83RA202C	10	N	N	70	10	N	150	N	100	300	N	2
82ST242M	30	N	N	50	20	N	70	N	200	150	--	--
82ST244M	200	N	N	70	20	N	100	N	200	200	--	--
83RA205C	30	N	N	70	20	N	150	N	70	200	N	5
83RC107C	70	N	N	70	30	<20	50	200	200	200	.002	37
82ST240M	20	N	N	50	20	N	70	N	200	150	--	--
82ST241M	150	50	N	50	20	N	100	N	200	150	--	--
83RA208C	70	N	N	50	70	<20	70	200	150	150	N	15
83RA238C	20	N	N	50	10	N	70	N	50	150	N	5
83RA209C	70	N	N	<50	70	20	70	200	200	150	N	20
82ST253M	30	100	N	50	10	N	100	N	200	200	--	--
83RA211C	70	N	N	50	30	<20	100	200	150	200	N	12
83RC108C	100	N	N	<50	70	20	50	200	200	100	N	40
83RC109C	70	500	N	50	50	<20	50	200	200	200	N	21
82ST209M	150	N	N	50	50	N	70	N	200	200	--	--
82ST252M	20	N	N	50	10	N	100	N	200	200	--	--
82ST243M	700	N	N	50	20	N	70	N	200	150	--	--
83RC114C	70	500	N	50	70	20	20	200	100	200	N	31
83RC115C	70	200	N	70	50	20	20	200	100	200	N	23
82ST268M	50	N	N	70	50	N	70	N	300	150	--	--
83RA239C	20	N	N	70	10	N	70	N	50	150	N	3
83RC113C	70	500	N	70	50	30	20	200	100	500	N	38
82ST210M	20	N	N	<50	70	N	70	N	300	150	--	--
83RA210C	50	N	N	N	70	20	70	200	150	100	N	10
82ST269M	100	N	N	50	70	N	70	N	300	100	--	--
83RC110C	70	500	N	50	70	30	50	200	200	200	N	80
83RC112C	70	500	N	50	50	20	50	200	200	150	.002	40
82ST255M	30	N	N	70	10	N	70	N	200	200	--	--
83RA235C	20	N	N	70	10	N	70	N	50	100	N	2
83RA240C	30	N	N	70	10	N	70	N	50	150	N	2
83RC111C	70	50	N	50	70	20	50	200	200	200	N	64
82ST257M	150	N	N	70	30	N	70	N	200	200	--	--
83RA236C	50	N	N	70	10	N	70	N	50	150	N	3
82ST211M	30	N	N	50	70	N	70	N	300	150	--	--
82ST212M	30	N	N	50	50	N	100	N	200	150	--	--
83RA213C	70	N	N	N	50	N	70	200	200	100	N	8
83RA214C	50	N	N	N	50	<20	70	200	200	100	N	12
83RA234C	20	N	N	70	10	N	70	N	50	150	N	2
83RA215C	30	N	N	N	70	<20	50	200	150	50	N	10

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Latitude	Longitude	Fe-%	Mg-%	Ca-%	Ti-%	Mn-ppm s	As-ppm s	B-ppm s	Ba-ppm s	Co-ppm s	Cr-ppm s
82ST258M	43 53 2	72 19 12	15	1.0	2.0	>2.0	>10,000	N	200	50	30	500
83RA237C	43 54 0	72 36 27	10	.5	1.0	>2.0	10,000	N	50	N	20	100
83RA233C	43 54 5	72 30 39	10	.5	1.0	>2.0	7,000	N	50	N	20	200
82ST109M	43 54 10	72 21 12	15	1.0	5.0	>2.0	>10,000	N	500	70	30	500
83RA217C	43 54 44	72 40 17	10	1.5	2.0	>2.0	7,000	N	20	N	30	500
82ST276M	43 54 45	72 16 42	15	1.0	2.0	>2.0	>10,000	N	200	50	20	200
83RA216C	43 54 54	72 39 48	10	1.0	2.0	>2.0	10,000	N	20	N	30	300
82ST129M	43 54 55	72 17 9	15	1.0	5.0	>2.0	>10,000	N	300	70	20	200
83RA241C	43 55 8	72 38 24	10	.5	1.0	>2.0	10,000	N	50	N	20	70
82ST262M	43 55 17	72 17 42	15	.7	2.0	>2.0	>10,000	N	500	50	20	200
82ST128M	43 55 22	72 17 54	15	1.0	5.0	>2.0	>10,000	N	150	50	20	300
83RA218C	43 55 26	72 43 20	7	1.5	2.0	1.5	2,000	N	20	200	50	300
82ST273M	43 55 30	72 17 48	15	1.0	5.0	>2.0	>10,000	N	500	70	30	200
83RA220C	43 56 1	72 41 1	7	1.5	2.0	1.5	5,000	N	20	200	50	200
83RA231C	43 56 2	72 35 18	15	.2	.5	>2.0	7,000	N	100	N	30	200
82ST257M	43 56 6	72 19 54	15	.7	2.0	>2.0	>10,000	N	200	100	30	500
83RA230C	43 56 20	72 38 2	10	.5	.5	>2.0	10,000	N	100	N	20	100
83RA232C	43 56 36	72 32 34	10	.5	.5	>2.0	7,000	N	50	N	20	100
83RA219C	43 56 53	72 44 42	7	1.5	2.0	1.5	2,000	N	20	300	50	300
83RA221C	43 57 12	72 42 30	10	1.5	1.5	1.5	3,000	N	20	N	50	200
83RA228C	43 57 31	72 34 11	10	.5	.5	>2.0	10,000	N	50	N	30	200
83RA223C	43 57 55	72 43 30	7	1.5	2.0	1.0	1,000	N	20	N	30	200
83RA226C	43 58 5	72 36 56	7	.5	.5	>2.0	10,000	N	50	N	30	200
83RA224C	43 58 11	72 40 10	7	1.5	2.0	>2.0	10,000	N	50	N	30	200
83RA227C	43 58 36	72 34 39	10	.5	.5	>2.0	10,000	N	50	N	30	200
83RA225C	43 58 47	72 39 55	7	1.0	.5	>2.0	7,000	N	50	N	50	100

TABLE4.--ANALYSES OF MAGNETIC CONCENTRATES--Continued

Sample	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sc-ppm s	Sr-ppm s	V-ppm s	Y-ppm s	Au-ppm aa	As-ppm cm
82ST258M	30	50	N	50	30	N	70	N	200	200	--	--
83RA237C	20	N	N	70	10	N	70	N	50	150	N	2
83RA233C	20	N	N	70	10	N	70	N	50	150	N	2
82ST109M	200	50	N	100	70	N	70	N	200	500	--	--
83RA217C	100	N	N	<50	70	<20	70	200	200	100	N	18
82ST276M	150	N	N	50	20	N	70	N	150	200	--	--
83RA216C	70	N	N	50	50	<20	70	200	150	200	N	15
82ST129M	150	N	N	50	20	N	70	N	200	200	--	--
83RA241C	50	N	N	70	20	N	70	N	50	150	N	7
82ST262M	30	300	N	50	20	N	70	N	200	200	--	--
82ST128M	150	50	N	50	20	N	70	N	200	200	--	--
83RA218C	30	N	N	N	70	<20	70	200	200	50	N	8
82ST273M	100	N	N	N	50	N	70	N	150	150	--	--
83RA220C	70	N	N	<50	50	<20	70	200	150	100	N	13
83RA231C	50	N	N	100	20	N	70	N	70	100	N	3
82ST257M	150	N	N	70	30	N	70	N	200	200	<.002	--
83RA230C	70	50	N	70	20	N	70	N	50	100	N	5
83RA232C	20	N	N	70	10	N	70	N	70	150	N	3
83RA219C	50	N	N	N	70	<20	50	200	200	50	N	18
83RA221C	50	N	N	N	50	<20	70	200	200	100	N	16
83RA228C	70	N	N	70	30	N	70	N	50	150	N	1
83RA223C	70	N	N	N	50	<20	50	200	150	50	N	15
83RA226C	70	N	N	70	20	N	70	N	70	150	N	8
83RA224C	70	N	N	50	50	<20	50	N	150	100	N	28
83RA227C	70	N	N	70	20	N	70	N	50	150	N	8
83RA225C	70	N	N	70	50	30	20	N	100	100	N	10