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Analytical results of insoluble-residue samples from the Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky: Drill hole nos. I71 - I105.

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CONTENTS

FIGURE

TABLES

INTRODUCTION

Geochemical studies of the Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky, were begun in 1986 as part of a multidisciplinary study of the quadrangle by the U.S. Geological Survey, the Missouri Division of Geology and Land Survey, the State Geological Survey Division of the Illinois Department of Energy and Natural Resources, and the Kentucky Geological Survey. The purpose of the study was to assess the mineral resource potential of the area by integrated geologic, geochemical, and geophysical studies.

The geochemical studies have been directed at the characterization of the sedimentary rocks in the quadrangle through spectrographic analyses and ion-selective analyses of dilute-hydrochloric-acid insoluble-residue samples of whole rock from widely-spaced drill holes. Drill holes have been selected for study from the sample libraries of the Missouri Division of Geology and Land Survey (MGLS), the Illinois State Geological Survey Division (ISGS), and the Kentucky Geological Survey (KGS). None of the holes are company confidential and none intersect economically significant mineralized ground.

The analytical results for drill holes I71 - I105 are listed in tables 3-37, respectively. Well name, well number, and county allow for identification and location of drill hole files at the ISGS (fig. 1, table 1).

SAMPLE PREPARATION

Insoluble residues were prepared by dissolving approximately 80 grams of crushed carbonate rock in repeated applications of 1:5 (~2.4N) hydrochloric acid until the carbonate was removed. The samples were then washed repeatedly with tap water and dried overnight at 50 °C.

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

SAMPLE ANALYSIS

Spectrographic Method

The insoluble-residue samples were analyzed for 35 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination (LLD's) are listed in table 2. Spectrographic results were obtained by visual comparison of

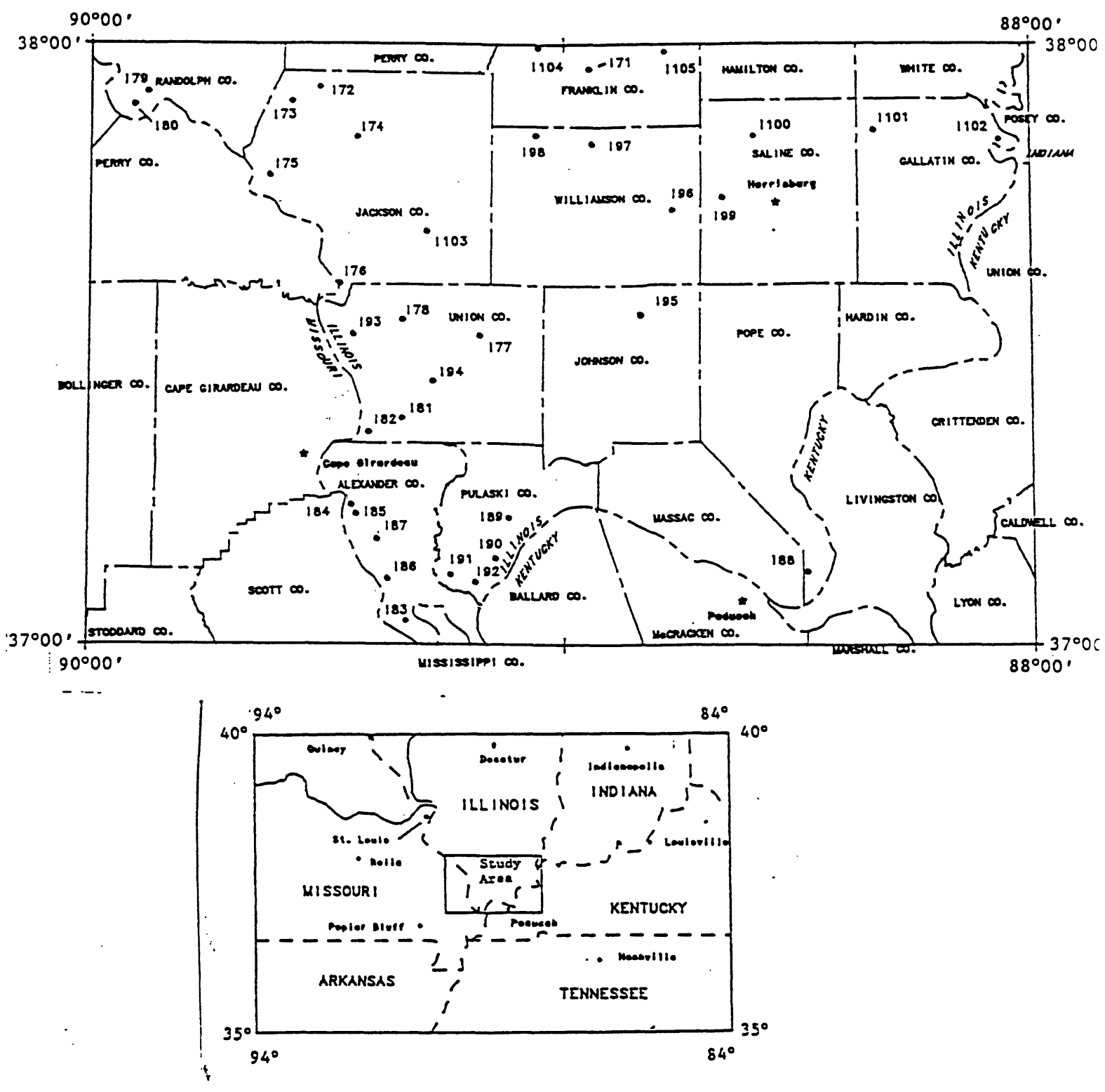

Figure 1. Location of drill holes I71-I105, Paducah 1°x 2° quadrangle, Missouri, Illinois, and Kentucky.

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, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (Ca, Fe, Mg, Na, P, and Ti) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for the drill holes are listed in tables 3-37.

Ion-selective electrode method #1

The insoluble-residue samples were analyzed for fluorine (F) using an ion-selective electrode (ISE) method (Hopkins, 1977; O'Leary and Meier, 1986). Samples are fused with a sodium carbonate-potassium carbonate-potassium nitrate flux and the fused sample is dissolved with citric acid. Sodium citrate buffer, which also serves as an ionic strength adjustor, is then added to this solution prior to determining the fluorine concentration by standard-additions technique. The LLD for this method is 100 ppm (.01%). Drill holes analyzed by this method after 1989 had a LLD of 500 ppm (.05%), as requested by the submitter, to expedite the analytical procedure.
Analytical results using this method are listed in tables 3, 5-28, and 30-32.

Ion-selective electrode method #2

The insoluble-residue samples from drill holes I72, I97, and I101 - I105 were analyzed for fluorine using another ion-selective electrode method (Kirschenbaum, 1988). A 100 mg sample is fused with a sodium carbonate - zinc oxide flux. The fusion cake is leached with water and hydrochloric acid is added to expel carbon dioxide. An aliquot of the sample solution is buffered with a sodium citrate - potassium nitrate solution. This solution is analyzed for fluorine, as fluoride, by the ion - selective electrode method of Kirschenbaum (1988). The LLD for this method is 50 ppm (.005%). . . . . .

Analytical results using this method are listed in tables 4, 29, and 33-37.

DATA STORAGE SYSTEM

Upon completion of all analytical work, the results were entered into a computer data base called PLUTO. 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 (Van Trump and Miesch, 1977).

DESCRIPTIONS OF DATA TABLES

Tables 3-37 list the results of analyses for the insoluble-residue samples. For these tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. For these sample numbers, the first letter indicates Illinois; the next two or three digits indicate the drill hole number; the final digits identify the depth from the bottom of the sample interval to the drill hole collar.

The stratigraphic unit of the sample is identified by a coded number in the last column of tables 3-37. The codes and corresponding formation names are listed in table 38.

Columns in which the element headings show the letter "s" below the element symbol indicates emission spectrographic analyses; "ise" indicates fluorine analyses by an ion-selective electrode method. A letter "N" in the tables indicates that a given element was looked for but not detected at the LLD shown in table 2. A "less than" symbol (<) entered in the tables in front of the LLD indicates that an element was observed but was below the lowest reporting value. If an element was observed 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 the tables in place of an analytical value. Because of the formatting used in the computer program that produced the data tables, some of the elements listed in these tables (Fe, Mg, Ca, P, Ti, Ag, and Be) may 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.

ACKNOWLEDGEMENTS

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Table 1. Drill hole information.

Drill Hole No.	ISGS Well Name	ISGS Well Log No.	County	Section, Township, and Range
I71	CW & F Coal Co. #1	SS35009	Franklin	36-6S-2E
I72	Magnolia Petro Co. #1	Core #1343	Jackson	11-7S-4W
I73	Leiner #1	SS2536	Jackson	20-7S-4W
I74	Smith Heirs #1	SS5571	Jackson	9-8S-3W
I75	Bennett #1	SS3521	Jackson	35-8S-5W
I76	Baysinger #1	SS4777	Jackson	32-10S-3W
I77	Bastler #1	SS8522	Union	35-11S-1W
I78	Hine #1	SS344	Union	21-11S-2W
I79	J.B. Cassoutt #1	SS4600	Randolph	16-7S-7W
I80	Roth	SS14487	Randolph	29-7S-7W
I81	T.R. Cross #1	SS19125	Union	21-13S-2W
I82	Potashnick #1	SS14217	Union	26-13S-2W
I83	Smith Oil	SS21186	Alexander	15-17S-2W
I84	R. Minton #3	SS10938	Alexander	4-15S-3W
I85	Russek #1	SS17683	Alexander	10-15S-3W
I86	Prindle and Vick Petty	SS20379	Alexander	19-16S-2W
I87	Central Alexander Co. Water District	SS58122	Alexander	25-15S-3W
I88	J.H. Lewis #1	SS30631 & SS27130	Pope	18-16S-7E
I89	Richey #1	SS5909	Pulaski	9-15S-1W
I90	Roberts #1	SS24387	Pulaski	5-16S-1W
I91	Moses #1	SS20435	Pulaski	17-16S-1W
I92	Hudson	SS23495	Pulaski	23-16S-1W
I93	Atlas Powder Co.	SS1725	Union	33-11S-3W
I94	City of Jonesboro #4	SS44802	Union	25-12S-2W

Table 1. Drill hole information--Continued

I95	Martha Cavitt #1	SS5744 and C23	Johnson	24-11S-3E
I96	Meadow Lark Farms #1	SS65655	Williamson	21-9S-4E
I97	#3B Little Fair	SS57751 & SS64317	Williamson	21-8S-2E
I98	Old Ben #1	SS63803	Williamson	1-8S-1E
I99	Ozment #1	SS56666	Saline	9-9S-5E
I100	Webber #1	SS65566 & C25508	Saline	6-8S-6E
I101	Luther Rister ETUX #2	SS58474	Gallatin	4-8S-8E
I102	Busiek - Crawford C-87 #33	Core #4351	Gallatin	11-8S-10E
I103	Dickerson #1	SS46116 & C1495	Jackson	36-9S-2W
I104	Lindsay - Bartuello #1	SS30622	Franklin	13-6S-1E
I105	U.S Steel #1	SS42486 & C3993	Franklin	20-6S-4E

Table 2.–Limits of determination for the spectrographic analysis of insoluble-residue samples, based on a 10-mg sample.

Elements	Lower determination limit	Upper determination limit
	Weight percent	
Calcium (Ca)	0.05	20
Iron (Fe)	.05	20
Magnesium (Mg)	.02	10
Sodium (Na)	.2	5
Phosphorus (P)	.2	10
Titanium (Ti)	.002	1
	Parts per million	
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	10	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Gallium (Ga)	5	500
Germanium (Ge)	10	100
Lanthanum (La)	50	1,000
Manganese (Mn)	10	5,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	20	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Palladium (Pd)*	5	1,000
Platinum (Pt)*	20	1,000

*Determined in heavy-mineral-concentrate samples only. Limits are for heavy-mineral-concentrate samples.

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I714675	37 57 25	88 58 7	.2	5	1	1	N	.2	N	N	N	70
I714695	37 57 25	88 58 7	1.5	3	1	.5	N	.15	N	N	N	50
I714715	37 57 25	88 58 7	.2	5	.7	.3	N	.2	N	N	N	70
I714735	37 57 25	88 58 7	.2	2	.7	.3	N	.2	N	N	N	50
I714755	37 57 25	88 58 7	.15	3	.5	.2	N	.15	N	N	N	50
I714775	37 57 25	88 58 7	.1	.7	.2	N	N	.07	N	N	N	30
I714795	37 57 25	88 58 7	.3	1.5	.7	<.2	N	.15	N	N	N	70
I714815	37 57 25	88 58 7	.7	1	.3	N	N	.1	N	N	N	30
I714835	37 57 25	88 58 7	.15	1	.2	N	N	.1	N	N	N	50
I714855	37 57 25	88 58 7	.07	1	.15	N	N	.1	N	N	N	30
I714875	37 57 25	88 58 7	1	.7	.2	N	N	.07	N	N	N	50
I714895	37 57 25	88 58 7	.07	2	.7	.3	N	.2	N	N	N	50
I714915	37 57 25	88 58 7	.3	1.5	.3	<.2	N	.1	N	N	N	50
I714940	37 57 25	88 58 7	<.05	1.5	.5	<.2	N	.15	N	N	N	50
I714970	37 57 25	88 58 7	.5	1	.2	N	N	.07	N	N	N	30
I714990	37 57 25	88 58 7	.5	1.5	.7	.2	N	.15	N	N	N	70
I715010	37 57 25	88 58 7	.3	2	.5	N	N	.15	N	N	N	30
I715030	37 57 25	88 58 7	.2	3	1	1	N	.3	N	N	N	50
I715050	37 57 25	88 58 7	<.05	2	.7	.5	N	.2	N	N	N	50
I715070	37 57 25	88 58 7	.07	.3	.07	N	N	.03	N	N	N	30
I715090	37 57 25	88 58 7	.15	2	.7	.3	N	.1	N	N	N	50
I715110	37 57 25	88 58 7	.3	1	.3	<.2	N	.05	N	N	N	50
I715140	37 57 25	88 58 7	.2	1	.2	<.2	N	.05	N	N	N	20
I715165	37 57 25	88 58 7	.3	1	.2	<.2	N	.05	N	N	N	30
I715185	37 57 25	88 58 7	.5	1	.7	.2	N	.07	N	N	N	30
I715205	37 57 25	88 58 7	.7	1.5	1	.2	N	.1	N	N	N	50
I715225	37 57 25	88 58 7	.5	.7	.5	<.2	N	.05	N	N	N	15
I715245	37 57 25	88 58 7	.7	1	1	<.2	N	.07	N	N	N	30
I715265	37 57 25	88 58 7	1	.7	1	<.2	N	.07	N	N	N	50
I715285	37 57 25	88 58 7	.7	1	1.5	.2	N	.15	N	N	N	70
I715305	37 57 25	88 58 7	.15	2	1.5	.3	N	.2	N	N	N	70
I715325	37 57 25	88 58 7	.05	2	1.5	.5	N	.2	N	N	N	50
I715345	37 57 25	88 58 7	.07	2	1.5	.3	N	.2	N	N	N	50
I715365	37 57 25	88 58 7	.7	1	1	<.2	N	.1	N	N	N	50
I715395	37 57 25	88 58 7	.3	5	1	.3	N	.1	N	N	N	30
I715415	37 57 25	88 58 7	.5	1	.5	.2	N	.05	N	N	N	30
I715435	37 57 25	88 58 7	1	1.5	2	N	N	.15	<.5	N	N	50
I715455	37 57 25	88 58 7	.7	1	1.5	.3	N	.1	N	N	N	30
I715475	37 57 25	88 58 7	.2	1.5	1.5	.3	N	.15	N	N	N	30
I715495	37 57 25	88 58 7	.3	1	1.5	.5	N	.1	N	N	N	10
I715515	37 57 25	88 58 7	.7	1	1.5	.5	N	.15	N	N	N	50
I715535	37 57 25	88 58 7	1	.7	1	.2	N	.1	N	N	N	30
I715555	37 57 25	88 58 7	.5	1	.7	.2	N	.07	N	N	N	20
I715575	37 57 25	88 58 7	.7	1	1	.3	N	.1	N	N	N	30
I715600	37 57 25	88 58 7	1.5	1.5	1.5	.5	N	.15	N	N	N	50
I715625	37 57 25	88 58 7	1.5	1.5	1.5	.3	N	.15	N	N	N	50
I715645	37 57 25	88 58 7	1	1.5	2	.3	N	.15	N	N	N	30
I715665	37 57 25	88 58 7	1.5	3	3	1	N	.3	N	N	N	70
I715685	37 57 25	88 58 7	<.05	2	1	1	N	.2	N	N	N	30
I715705	37 57 25	88 58 7	.05	5	3	1.5	N	.3	N	N	N	50
I715725	37 57 25	88 58 7	N	1.5	1.5	1.5	N	.3	N	N	N	50
I715745	37 57 25	88 58 7	<.05	1.5	1.5	1	N	.3	N	N	N	70
I715765	37 57 25	88 58 7	N	3	1.5	1	N	.3	N	N	N	50
I715785	37 57 25	88 58 7	N	2	2	2	N	.3	N	N	N	70
I715805	37 57 25	88 58 7	N	5	1.5	1.5	N	.2	<.5	N	N	50
I715825	37 57 25	88 58 7	N	3	1.5	1.5	N	.2	N	N	N	30
I715845	37 57 25	88 58 7	N	5	1.5	2	N	.3	N	N	N	50
I715865	37 57 25	88 58 7	N	3	1.5	2	N	.5	N	N	N	70
I715885	37 57 25	88 58 7	N	3	1	1.5	N	.3	N	N	N	50
I715905	37 57 25	88 58 7	.05	1.5	.15	<.2	N	.1	N	N	N	20

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 172, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I714675	500	<1	N	N	10	20	70	20	N	N	30	20	N
I714695	150	N	N	N	<10	15	50	20	N	N	70	7	N
I714715	1,000	N	N	N	10	20	50	7	N	N	50	10	N
I714735	200	<1	N	N	<10	15	30	7	N	N	30	5	N
I714755	300	N	N	N	<10	10	50	5	N	N	20	10	N
I714775	50	N	N	N	N	N	5	N	N	N	<10	N	N
I714795	70	N	N	N	N	<10	20	5	N	N	30	5	N
I714815	70	N	N	N	N	<10	15	5	N	N	30	N	N
I714835	50	N	N	N	N	10	<5	<5	N	N	10	N	N
I714855	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I714875	20	N	N	N	N	N	<5	N	N	N	10	N	N
I714895	200	<1	N	N	<10	30	20	20	N	N	15	5	N
I714915	50	N	N	N	N	N	10	<5	N	N	20	N	N
I714940	50	<1	N	N	<10	<10	5	10	N	N	15	N	N
I714970	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I714990	70	<1	N	N	<10	10	30	5	N	N	20	7	N
I715010	70	N	N	N	<10	15	30	15	N	N	20	<5	N
I715030	200	<1	N	N	10	50	50	30	N	N	50	15	N
I715050	100	N	N	N	<10	15	30	20	N	N	20	10	N
I715070	20	N	N	N	N	150	7	N	N	N	<10	7	N
I715090	150	N	N	N	<10	15	20	10	N	N	20	5	N
I715110	30	N	N	N	N	N	15	N	N	N	10	N	N
I715140	<20	N	N	N	N	N	7	N	N	N	N	N	N
I715165	20	N	N	N	N	50	<5	N	N	N	<10	5	N
I715185	50	N	N	N	N	N	10	N	N	N	10	<5	N
I715205	70	N	N	N	N	100	20	5	N	N	20	7	N
I715225	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I715245	30	N	N	N	N	10	5	N	N	N	10	N	N
I715265	50	N	N	N	N	N	<5	N	N	N	10	N	N
I715285	100	N	N	N	N	15	7	7	N	N	15	N	N
I715305	200	<1	N	N	<10	100	30	30	N	N	50	<5	N
I715325	100	N	N	N	<10	500	15	50	N	N	15	7	N
I715345	100	N	N	N	<10	30	15	30	N	N	20	N	N
I715365	70	N	N	N	N	<10	7	<5	N	N	15	N	N
I715395	70	N	N	N	<10	20	100	10	N	N	200	N	N
I715415	70	N	N	N	N	N	10	N	N	N	50	N	N
I715435	200	N	N	N	N	70	30	15	N	N	30	<5	N
I715455	70	N	N	N	N	<10	<5	7	N	N	10	N	N
I715475	100	N	N	N	N	15	5	10	N	N	10	N	N
I715495	70	N	N	N	N	20	5	10	N	N	10	N	N
I715515	70	N	N	N	N	10	10	7	N	N	15	N	N
I715535	100	N	N	N	N	<10	5	<5	N	N	<10	N	N
I715555	50	N	N	N	N	<10	15	5	N	N	20	N	N
I715575	70	N	N	N	N	<10	<5	5	N	N	10	N	N
I715600	150	N	N	N	N	15	15	15	N	N	30	N	N
I715625	100	N	N	N	N	20	15	15	N	N	30	N	N
I715645	100	N	N	N	N	20	10	15	N	N	20	N	N
I715665	300	<1	N	N	10	50	30	30	N	N	50	<5	N
I715685	200	N	N	N	<10	1,000	7	20	N	N	20	7	N
I715705	500	1	N	N	15	100	5	70	N	N	70	<5	N
I715725	300	<1	N	N	<10	50	30	50	N	N	10	N	N
I715745	300	<1	N	N	<10	30	20	30	N	N	15	5	N
I715765	200	<1	N	N	10	30	50	50	N	N	20	15	N
I715785	500	<1	N	N	10	70	30	100	N	N	20	7	N
I715805	300	1	N	N	<10	50	50	70	N	N	30	5	N
I715825	300	<1	N	N	<10	30	20	50	N	N	30	5	N
I715845	300	<1	N	N	10	30	30	20	N	N	50	10	N
I715865	300	1	N	N	10	70	30	50	N	N	20	5	N
I715885	200	<1	N	N	10	700	30	30	N	N	15	10	N
I715905	700	N	N	N	100	500	20	<5	N	N	<10	15	N

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I714675	30	500	N	<5	N	<100	N	100	N	<10	N	30	.06	10
I714695	20	20	N	<5	N	N	N	50	N	N	N	30	.04	10
I714715	30	2,000	N	5	N	N	N	70	N	<10	<200	70	.03	10
I714735	15	700	N	<5	N	N	N	50	N	N	<200	70	.03	10
I714755	20	1,000	N	N	N	N	N	50	<20	N	<200	20	.03	10
I714775	<5	30	N	N	N	N	N	15	N	N	N	20	<.01	10
I714795	15	1,000	N	N	N	N	N	30	N	N	N	50	.02	10
I714815	5	50	N	N	N	N	N	15	N	N	<200	15	.02	10
I714835	7	<10	N	N	N	N	N	20	N	N	N	20	.02	10
I714855	7	1,500	N	N	N	N	N	15	N	N	<200	20	.02	10
I714875	5	200	N	N	N	N	N	10	N	N	N	20	.01	10
I714895	20	1,000	N	<5	N	N	N	70	N	N	N	70	.02	10
I714915	7	700	N	N	N	N	N	15	N	N	N	15	.02	10
I714940	10	2,000	N	N	N	N	N	30	N	N	200	20	.04	10
I714970	5	1,000	N	N	N	N	N	15	N	N	N	15	.01	10
I714990	15	200	N	<5	N	N	N	50	N	N	N	50	.02	10
I715010	20	5,000	N	<5	N	N	N	70	N	N	5,000	30	.03	10
I715030	30	1,500	N	5	N	N	N	70	N	<10	N	30	.04	10
I715050	20	1,000	N	<5	N	N	N	70	N	N	<200	30	.04	10
I715070	<5	<10	N	N	N	N	N	10	N	N	N	10	.02	10
I715090	15	2,000	N	<5	N	100	N	50	N	N	N	30	.04	10
I715110	7	10	N	N	N	N	N	15	N	N	N	20	.02	10
I715140	7	1,000	N	N	N	N	N	20	<20	N	N	20	.02	10
I715165	5	1,500	N	N	N	N	N	15	N	N	N	15	.02	10
I715185	7	500	N	N	N	N	N	20	N	N	N	15	.02	10
I715205	10	1,000	N	N	N	N	N	30	N	N	<200	20	.02	10
I715225	<5	200	N	N	N	N	N	15	N	N	N	10	.02	10
I715245	5	1,000	N	N	N	N	N	20	N	N	<200	20	.02	10
I715265	<5	700	N	N	N	N	N	20	N	N	N	30	.03	10
I715285	7	100	N	N	N	N	N	30	N	N	N	70	.03	10
I715305	20	70	N	<5	N	N	N	70	N	<10	N	30	.04	10
I715325	15	1,000	N	<5	N	N	N	70	<20	N	<200	30	.07	10
I715345	15	200	N	<5	N	N	N	70	N	N	N	50	.06	10
I715365	5	300	N	N	N	N	N	30	N	N	N	30	.03	10
I715395	10	200	N	N	N	N	N	30	20	N	N	20	.02	10
I715415	5	<10	N	N	N	N	N	15	N	N	N	30	.02	10
I715435	20	10,000	N	N	N	N	N	50	<20	N	10,000	30	.04	10
I715455	5	70	N	N	N	N	N	15	N	N	N	20	.06	10
I715475	7	150	N	N	N	N	N	20	N	N	N	30	.06	10
I715495	7	200	N	N	N	N	N	30	N	N	N	30	.06	10
I715515	7	200	N	N	N	N	N	50	N	N	<200	30	.05	10
I715535	5	200	N	N	N	100	N	20	N	N	<200	20	.04	10
I715555	5	1,500	N	N	N	N	N	15	N	N	N	15	.04	10
I715575	5	1,500	N	N	N	N	N	15	N	N	N	20	.04	10
I715600	7	2,000	N	<5	N	N	N	50	N	N	N	30	.04	10
I715625	7	700	N	<5	N	N	N	50	<20	N	N	30	.06	10
I715645	10	200	N	<5	N	N	N	50	N	N	N	30	.07	15
I715665	20	1,500	N	5	N	N	N	100	N	<10	<200	70	.07	15
I715685	15	20	N	<5	N	N	N	50	N	N	N	50	.07	15
I715705	30	70	N	5	N	N	N	50	N	<10	N	100	.09	15
I715725	7	<10	N	<5	N	N	N	50	N	N	N	100	.09	15
I715745	10	N	N	<5	N	N	N	70	N	<10	N	70	.06	15
I715765	20	1,500	N	5	N	N	N	70	50	N	N	50	.07	15
I715785	15	70	N	5	N	N	N	50	70	<10	N	70	.09	15
I715805	20	20	N	5	N	N	N	50	N	N	N	70	.08	15
I715825	15	30	N	5	N	N	N	70	N	N	N	50	.07	15
I715845	30	15	N	<5	N	N	N	70	N	<10	N	100	.06	15
I715865	30	20	N	5	N	N	N	100	N	<10	N	70	.06	15
I715885	20	100	N	<5	N	N	N	50	20	N	N	70	.08	15
I715905	30	10	N	N	N	N	N	15	N	N	N	10	.02	15

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I715925	37 57 25	88 58 7	.15	2	.5	.2	N	.15	N	N	N	50
I715945	37 57 25	88 58 7	.07	2	.7	.3	N	.2	N	N	N	70
I715965	37 57 25	88 58 7	.05	3	1.5	.7	N	.5	N	N	N	70
I715995	37 57 25	88 58 7	.05	2	1	.7	N	.3	N	N	N	50
I716125	37 57 25	88 58 7	.05	5	1	1.5	N	.3	N	N	N	30
I716145	37 57 25	88 58 7	.07	5	1	1	N	.3	N	N	N	50
I716165	37 57 25	88 58 7	.1	7	.7	.5	N	.2	.5	N	N	70
I716185	37 57 25	88 58 7	.07	5	1	.7	N	.3	<.5	N	N	70
I716205	37 57 25	88 58 7	.07	10	1.5	1	N	.5	N	N	N	100
I716225	37 57 25	88 58 7	.05	5	1	1	N	.3	N	N	N	70
I716245	37 57 25	88 58 7	.07	7	1.5	1	N	.3	N	N	N	50
I716252	37 57 25	88 58 7	.07	5	1.5	1	N	.2	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I715925	150	N	N	N	<10	<10	20	5	N	N	15	N	N
I715945	150	N	N	N	<10	15	15	15	N	N	15	N	N
I715965	150	N	N	N	<10	1,000	30	20	N	N	30	15	N
I715995	150	N	N	N	N	1,500	30	10	N	N	20	20	N
I716125	150	<1	N	N	N	20	20	20	N	N	30	N	N
I716145	200	<1	N	N	<10	20	50	20	N	N	50	7	N
I716165	150	<1	N	N	<10	15	30	15	N	N	20	5	N
I716185	200	1	N	N	15	100	70	20	N	N	30	10	N
I716205	300	1.5	N	N	15	70	100	30	N	N	70	20	<20
I716225	200	1.5	N	N	10	30	70	20	N	<50	50	30	N
I716245	300	1	N	N	10	70	70	50	N	N	50	10	N
I716252	150	<1	N	N	<10	30	50	50	N	N	50	15	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I715925	10	<10	N	N	N	N	N	30	N	N	N	20	.03	15
I715945	15	15	N	<5	N	N	N	50	N	N	N	30	.05	15
I715965	20	1,500	N	<5	N	N	N	100	150	N	N	50	.09	15
I715995	7	15	N	N	N	N	N	30	N	N	N	70	.07	15
I716125	10	<10	N	<5	N	N	N	50	30	N	N	50	.06	25
I716145	20	2,000	N	<5	N	N	N	50	N	N	N	50	.05	25
I716165	15	10,000	N	<5	N	N	N	30	<20	N	N	50	.04	25
I716185	100	200	N	5	N	N	N	500	N	<10	N	50	.05	25
I716205	70	100	N	7	N	N	N	200	N	10	N	100	.05	25
I716225	30	30	N	5	N	N	N	150	N	<10	N	70	.05	25
I716245	30	70	N	5	N	N	N	70	50	10	N	100	.07	26
I716252	20	15	N	5	N	N	N	50	N	<10	N	70	.07	26

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 172, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
1720470	37 55 41	89 31 42	.3	3	.5	.2	N	.7	N	N	N	100
1720490	37 55 41	89 31 42	.15	10	.7	.2	N	.7	N	N	N	150
1720510	37 55 41	89 31 42	.05	7	1	.3	N	.5	N	N	N	100
1720530	37 55 41	89 31 42	.05	5	.5	<.2	N	.5	N	N	N	150
1720640	37 55 41	89 31 42	<.05	5	.3	.2	N	.3	N	N	N	70
1720690	37 55 41	89 31 42	.05	3	.7	.5	N	.5	N	N	N	100
1720710	37 55 41	89 31 42	N	2	.7	.3	N	.5	N	N	N	100
1720740	37 55 41	89 31 42	<.05	5	.7	.3	N	.7	N	N	N	100
1720760	37 55 41	89 31 42	<.05	3	1	1	N	.3	N	N	N	70
1720780	37 55 41	89 31 42	.3	5	1	.3	N	.5	N	N	N	100
1720800	37 55 41	89 31 42	.2	5	1	.2	N	.5	N	N	N	100
1720820	37 55 41	89 31 42	N	7	1	.2	N	.5	N	N	N	100
1720840	37 55 41	89 31 42	N	5	.7	<.2	N	.5	N	N	N	70
1720860	37 55 41	89 31 42	N	3	1	.3	N	.5	N	N	N	100
1720880	37 55 41	89 31 42	N	5	1	.3	N	.5	N	N	N	100
1720896	37 55 41	89 31 42	N	2	.3	.3	N	.3	N	N	N	50
1720920	37 55 41	89 31 42	N	5	1	.2	N	.7	N	N	N	100
1720940	37 55 41	89 31 42	N	2	.7	.3	N	.5	N	N	N	70
1720960	37 55 41	89 31 42	<.05	3	1	.5	N	.5	N	N	N	70
1720980	37 55 41	89 31 42	<.05	5	1.5	.2	N	.5	N	N	N	100
1721000	37 55 41	89 31 42	<.05	7	1	.2	N	.7	N	N	N	150
1721020	37 55 41	89 31 42	N	5	1	.2	N	.5	N	N	N	100
1721040	37 55 41	89 31 42	N	5	1	.3	N	.5	N	N	N	100
1721060	37 55 41	89 31 42	N	2	.5	<.2	N	.3	N	N	N	70
1721080	37 55 41	89 31 42	N	2	.5	<.2	N	.5	N	N	N	100
1721100	37 55 41	89 31 42	N	5	.5	<.2	N	.5	N	N	N	70
1721120	37 55 41	89 31 42	N	7	.7	.2	N	.5	N	N	N	100
1721140	37 55 41	89 31 42	N	7	1	.2	N	.7	N	N	N	100
1721160	37 55 41	89 31 42	N	3	.7	.2	N	.5	N	N	N	70
1721180	37 55 41	89 31 42	N	5	.7	.2	N	.5	N	N	N	100
1721200	37 55 41	89 31 42	N	3	.7	<.2	N	.5	N	N	N	100
1721220	37 55 41	89 31 42	N	5	.5	<.2	N	.3	N	N	N	70
1721240	37 55 41	89 31 42	N	5	1	.2	N	.3	N	N	N	100
1721260	37 55 41	89 31 42	N	7	1	.2	N	.5	N	N	N	100
1721280	37 55 41	89 31 42	N	3	1	.3	N	.3	N	N	N	100
1721300	37 55 41	89 31 42	N	5	1	.3	N	.5	N	N	N	150
1721320	37 55 41	89 31 42	N	5	.7	.2	N	.3	N	N	N	70
1721340	37 55 41	89 31 42	<.05	7	1	.2	N	.3	N	N	N	100
1721360	37 55 41	89 31 42	.07	3	.7	.3	N	.3	N	N	N	100
1721380	37 55 41	89 31 42	<.05	5	1	.2	N	.5	N	N	N	100
1721400	37 55 41	89 31 42	<.05	5	1	.2	N	.5	N	N	N	150
1721420	37 55 41	89 31 42	N	7	1	.2	N	.7	N	N	N	150
1721440	37 55 41	89 31 42	N	3	.7	<.2	N	.3	N	N	N	70
1721460	37 55 41	89 31 42	<.05	5	1	.2	N	.7	N	N	N	100
1721480	37 55 41	89 31 42	.07	5	1	.2	N	.5	N	N	N	100
1721500	37 55 41	89 31 42	N	5	1	.2	N	.5	N	N	N	100
1721520	37 55 41	89 31 42	N	5	1	<.2	N	.5	N	N	N	100
1721540	37 55 41	89 31 42	N	3	.7	<.2	N	.3	N	N	N	70
1721560	37 55 41	89 31 42	<.05	5	1	.2	N	.5	N	N	N	100
1721580	37 55 41	89 31 42	<.05	5	1	.2	N	.5	N	N	N	100
1721600	37 55 41	89 31 42	N	3	1	.2	N	.3	N	N	N	70
1721620	37 55 41	89 31 42	<.05	5	1	.3	N	.7	N	N	N	150
1721640	37 55 41	89 31 42	<.05	5	1	.2	N	.5	.5	N	N	100
1721660	37 55 41	89 31 42	N	5	.7	.2	N	.5	N	N	N	100
1721680	37 55 41	89 31 42	N	5	1	.3	N	.3	N	N	N	100
1721700	37 55 41	89 31 42	<.05	5	1	.2	N	.3	N	N	N	70
1721730	37 55 41	89 31 42	.05	5	1.5	.2	N	.5	N	N	N	150
1721750	37 55 41	89 31 42	.05	5	1	.2	N	.3	N	N	N	70
1721770	37 55 41	89 31 42	.1	7	1	.3	N	.5	N	N	N	100
1721790	37 55 41	89 31 42	<.05	3	.7	.5	N	.3	N	N	N	70

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I720470	2,000	1.5	N	N	<10	70	50	20	N	<50	30	N	N
I720490	1,500	1.5	N	N	10	70	70	30	N	<50	500	<5	N
I720510	1,000	<1	N	N	<10	50	50	50	N	N	20	N	N
I720530	200	1.5	N	N	<10	70	15	20	N	50	150	N	N
I720640	70	1	N	N	10	50	15	20	N	<50	100	N	N
I720690	150	1.5	N	N	<10	70	15	50	N	N	30	N	N
I720710	100	1.5	N	N	<10	70	15	30	N	<50	30	N	N
I720740	500	1.5	N	N	<10	100	20	20	N	<50	50	N	<20
I720760	300	2	N	N	<10	150	15	70	N	N	20	N	N
I720780	100	2	N	N	<10	100	15	30	N	<50	30	N	N
I720800	300	2	N	N	<10	150	70	30	N	<50	30	N	N
I720820	100	2	N	N	10	150	50	50	N	<50	30	N	<20
I720840	70	2	N	N	<10	100	15	30	N	<50	20	N	N
I720860	100	2	N	N	<10	100	20	30	N	<50	30	N	N
I720880	100	1.5	N	N	10	150	10	20	N	<50	20	N	N
I720896	70	<1	N	N	N	50	5	15	N	N	15	N	N
I720920	100	2	N	N	<10	100	300	30	N	<50	30	N	N
I720940	100	1	N	N	<10	70	10	10	N	<50	20	N	N
I720960	150	2	N	N	10	100	15	50	N	<50	30	N	N
I720980	150	2	N	N	<10	100	70	20	N	<50	20	N	N
I721000	200	3	N	N	10	70	20	50	N	50	30	N	N
I721020	150	2	N	N	<10	70	10	30	N	<50	20	N	N
I721040	200	1.5	N	N	10	150	20	70	N	<50	30	N	N
I721060	150	1	N	N	N	50	7	10	N	N	15	N	N
I721080	150	1.5	N	N	<10	70	7	15	N	N	20	N	N
I721100	200	1.5	N	N	<10	50	200	20	N	N	20	N	N
I721120	300	1.5	N	N	10	100	30	50	N	<50	20	N	N
I721140	200	2	N	N	15	150	50	50	N	<50	30	N	N
I721160	200	1.5	N	N	10	70	30	30	N	<50	20	N	N
I721180	150	1.5	N	N	10	70	20	30	N	<50	20	N	N
I721200	150	1	N	N	<10	70	10	20	N	<50	20	N	N
I721220	300	1.5	N	N	10	50	70	30	N	<50	20	N	N
I721240	200	1.5	N	N	<10	150	10	50	N	<50	30	N	N
I721260	150	2	N	N	15	150	70	50	N	<50	30	N	N
I721280	150	1.5	N	N	<10	100	15	50	N	<50	20	N	N
I721300	150	2	N	N	10	100	10	50	N	<50	30	N	N
I721320	200	1.5	N	N	10	70	500	30	N	N	20	<5	<20
I721340	500	2	N	N	15	70	50	50	N	N	30	N	<20
I721360	500	1.5	N	N	<10	50	10	20	N	N	20	N	N
I721380	150	1.5	N	N	10	150	30	50	N	<50	70	N	N
I721400	300	1.5	N	N	10	100	100	50	N	<50	50	<5	N
I721420	2,000	2	N	N	15	200	70	70	N	<50	70	5	<20
I721440	100	1	N	N	<10	70	10	30	N	N	20	N	N
I721460	200	2	N	N	15	200	15	50	N	50	50	<5	<20
I721480	200	1.5	N	N	10	100	20	50	N	<50	30	N	N
I721500	1,000	2	N	N	10	150	15	50	N	<50	50	N	N
I721520	150	1.5	N	N	10	200	10	20	N	<50	20	N	N
I721540	100	1	N	N	<10	70	15	10	N	<50	30	N	N
I721560	200	1.5	N	N	10	150	10	30	N	<50	70	N	N
I721580	150	2	N	N	10	150	50	20	N	<50	50	N	N
I721600	100	1.5	N	N	10	100	10	20	N	<50	30	<5	N
I721620	500	2	N	N	10	100	20	30	N	<50	50	5	<20
I721640	100	1.5	N	N	10	100	15	30	N	<50	30	<5	N
I721660	500	1.5	N	N	10	100	15	20	N	<50	30	N	N
I721680	300	1.5	N	N	10	70	1,500	30	N	<50	30	N	N
I721700	200	1	N	N	10	100	20	50	N	<50	50	N	N
I721730	5,000	2	N	N	10	150	20	30	N	<50	70	N	<20
I721750	300	1.5	N	N	<10	70	15	30	N	N	70	5	N
I721770	150	1.5	N	N	15	70	30	30	N	<50	50	<5	N
I721790	150	1	N	N	<10	70	10	50	N	<50	20	N	N

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I720470	50	15	N	5	N	N	N	100	N	10	N	200	.05	4
I720490	70	10	N	7	N	N	N	150	N	<10	N	150	.1	4
I720510	30	10	N	<5	N	N	N	70	N	N	N	70	.15	4
I720530	20	N	N	7	N	N	N	150	<20	<10	N	500	.08	4
I720640	30	<10	N	5	N	N	N	70	N	N	N	70	.062	4
I720690	30	<10	N	5	N	N	N	100	<20	N	N	70	.11	4
I720710	20	N	N	7	N	N	N	100	N	<10	N	100	.08	4
I720740	50	N	N	10	N	N	N	150	N	10	N	200	.08	4
I720760	20	<10	N	5	N	N	N	70	N	N	N	30	.12	4
I720780	50	N	N	7	N	N	N	150	N	<10	N	100	.14	4
I720800	30	<10	N	7	N	N	N	100	N	<10	<200	70	.12	4
I720820	50	<10	N	7	N	N	N	100	N	<10	N	70	.1	4
I720840	30	N	N	7	N	N	N	100	N	<10	N	50	.07	4
I720860	20	<10	N	7	N	N	N	70	N	<10	N	70	.11	4
I720880	30	N	N	7	N	N	N	100	N	<10	N	70	.09	4
I720896	15	N	N	<5	N	N	N	50	N	N	N	100	.07	5
I720920	50	N	N	7	N	N	N	150	N	<10	N	200	.074	5
I720940	20	N	N	5	N	N	N	70	N	<10	N	150	.07	5
I720960	20	<10	N	7	N	N	N	70	N	<10	N	70	.08	5
I720980	20	N	N	7	N	N	N	100	30	<10	N	100	.09	5
I721000	50	10	N	10	N	N	N	150	N	10	N	150	.1	5
I721020	30	N	N	7	N	N	N	150	N	<10	N	70	.1	5
I721040	50	<10	N	10	N	N	N	150	N	<10	N	150	.08	5
I721060	20	N	N	<5	N	N	N	70	N	N	N	200	.054	5
I721080	20	N	N	5	N	N	N	100	N	N	N	100	.07	5
I721100	20	N	N	5	N	N	N	100	N	N	N	70	.07	7
I721120	30	<10	N	7	N	N	N	100	N	<10	N	70	.09	7
I721140	50	N	N	10	N	N	N	150	N	<10	N	100	.084	7
I721160	30	N	N	7	N	N	N	100	N	<10	N	70	.07	7
I721180	30	N	N	7	N	N	N	100	N	<10	<200	70	.062	7
I721200	20	N	N	5	N	N	N	100	N	<10	N	150	.08	7
I721220	20	<10	N	5	N	N	N	100	20	N	N	50	.1	7
I721240	20	<10	N	5	N	N	N	100	N	<10	N	70	.1	7
I721260	50	<10	N	7	N	N	N	100	300	<10	N	150	.08	7
I721280	20	N	N	7	N	N	N	100	N	<10	N	70	.07	7
I721300	30	<10	N	7	N	N	N	100	N	<10	N	70	.08	7
I721320	30	<10	N	5	N	N	N	70	1,000	N	N	50	.1	7
I721340	50	10	N	5	N	N	N	70	300	<10	N	50	.1	7
I721360	15	N	N	5	N	N	N	70	70	<10	N	70	.084	7
I721380	50	<10	N	7	N	N	N	150	150	<10	N	70	.11	7
I721400	70	<10	N	7	N	N	N	150	70	<10	N	100	.11	7
I721420	50	<10	N	10	N	N	N	150	200	<10	N	100	.1	7
I721440	30	N	N	5	N	N	N	100	50	N	N	50	.09	7
I721460	70	N	N	10	N	N	N	200	500	<10	N	100	.1	7
I721480	50	N	N	7	N	100	N	100	70	<10	N	70	.21	7
I721500	50	N	N	7	<10	N	N	100	50	<10	N	100	.11	7
I721520	50	N	N	7	N	N	N	100	<20	<10	<200	70	.13	7
I721540	30	N	N	5	N	N	N	70	N	N	N	70	.11	7
I721560	50	<10	N	7	N	<100	N	150	100	<10	N	100	.11	7
I721580	30	<10	N	7	N	N	N	100	<20	<10	N	70	.1	7
I721600	30	<10	N	7	N	N	N	70	N	<10	N	70	.11	7
I721620	50	<10	N	10	N	N	N	150	500	<10	N	100	--	7
I721640	30	N	N	7	N	N	N	100	20	<10	N	100	.1	7
I721660	50	N	N	7	N	N	N	100	200	<10	N	70	.11	7
I721680	30	70	N	7	N	N	N	100	<20	<10	300	70	.11	7
I721700	50	<10	N	7	N	N	N	70	N	<10	N	70	.11	7
I721730	50	<10	N	10	N	<100	N	150	N	<10	N	100	.1	7
I721750	30	<10	N	5	N	N	N	70	30	<10	N	70	.081	7
I721770	50	10	N	7	N	N	N	100	<20	<10	N	70	.09	7
I721790	20	<10	N	5	N	N	N	70	N	<10	N	70	.1	7

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 172, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
1721810	37 55 41	89 31 42	.07	5	1.5	.2	N	.5	N	N	N	100
1721830	37 55 41	89 31 42	<.05	7	1	.2	N	.5	N	N	N	100
1721850	37 55 41	89 31 42	.05	7	1	.2	N	.5	N	N	N	100
1721870	37 55 41	89 31 42	N	2	.3	.5	N	.3	N	N	N	70
1721890	37 55 41	89 31 42	N	5	1	.3	N	.7	N	N	N	100
1721910	37 55 41	89 31 42	N	3	.7	<.2	N	.3	N	N	N	50
1721930	37 55 41	89 31 42	.1	5	1	.2	N	.5	N	N	N	100
1721950	37 55 41	89 31 42	.1	5	1	.2	N	.5	N	N	N	100
1721970	37 55 41	89 31 42	.07	7	1	.2	N	.5	N	N	N	100
1721990	37 55 41	89 31 42	N	1.5	.5	.7	N	.3	N	N	N	70
1722010	37 55 41	89 31 42	N	5	1.5	.3	N	.7	N	N	N	150
1722030	37 55 41	89 31 42	N	5	1	.2	N	.7	N	N	N	100
1722050	37 55 41	89 31 42	N	3	.7	.2	N	.5	N	N	N	70
1722070	37 55 41	89 31 42	N	5	.7	.2	N	.5	N	N	N	70
1722090	37 55 41	89 31 42	N	3	1	.2	N	.5	N	N	N	100
1722110	37 55 41	89 31 42	<.05	7	1	.3	N	.5	N	N	N	100
1722150	37 55 41	89 31 42	.05	5	.7	.5	N	.3	N	N	N	70
1722170	37 55 41	89 31 42	.05	5	1	.5	N	.5	<.5	N	N	150
1722190	37 55 41	89 31 42	<.05	3	1	.7	N	.5	.5	N	N	100
1722210	37 55 41	89 31 42	N	3	1.5	.5	N	.7	N	N	N	100
1722230	37 55 41	89 31 42	<.05	3	.7	.5	N	.7	N	N	N	100
1722250	37 55 41	89 31 42	N	2	.5	.7	N	.3	N	N	N	50
1722270	37 55 41	89 31 42	<.05	3	.7	.5	N	.5	N	N	N	100
1722290	37 55 41	89 31 42	<.05	3	1	.7	N	.7	N	N	N	150
1722310	37 55 41	89 31 42	N	2	1	.5	N	.5	N	N	N	100
1722330	37 55 41	89 31 42	N	5	1	.7	N	.7	N	N	N	100
1722350	37 55 41	89 31 42	<.05	3	.7	.5	N	.7	N	N	N	100
1722370	37 55 41	89 31 42	<.05	3	.7	.5	N	.5	N	N	N	100
1722390	37 55 41	89 31 42	N	3	.7	.7	N	.5	N	N	N	70
1722410	37 55 41	89 31 42	N	5	.5	.3	N	.5	N	N	N	100
1722430	37 55 41	89 31 42	N	5	1	.2	N	.7	N	N	N	100
1722450	37 55 41	89 31 42	N	5	.7	.2	N	.5	N	N	N	70
1722470	37 55 41	89 31 42	.05	2	.5	<.2	N	.3	N	N	N	100
1722530	37 55 41	89 31 42	.05	3	.5	<.2	N	.3	N	N	N	70
1722550	37 55 41	89 31 42	.07	3	.7	<.2	N	.5	N	N	N	100
1722570	37 55 41	89 31 42	.07	3	.5	.2	N	.3	N	N	N	50
1722590	37 55 41	89 31 42	<.05	5	.5	<.2	N	.5	N	N	N	70
1722610	37 55 41	89 31 42	.05	2	.5	.2	N	.3	N	N	N	70
1722630	37 55 41	89 31 42	.05	3	.7	<.2	N	.5	N	N	N	100
1722650	37 55 41	89 31 42	.05	2	.7	.2	N	.3	N	N	N	50
1722670	37 55 41	89 31 42	.07	5	1	.2	N	.5	N	N	N	70
1722690	37 55 41	89 31 42	.07	3	.7	<.2	N	.5	N	N	N	70
1722710	37 55 41	89 31 42	.07	5	1	<.2	N	.3	N	N	N	50
1722730	37 55 41	89 31 42	<.05	2	.5	<.2	N	.5	N	N	N	30
1722750	37 55 41	89 31 42	.05	3	.7	<.2	N	.7	N	N	N	70
1722770	37 55 41	89 31 42	.07	5	.7	.2	N	.5	N	N	N	100
1722790	37 55 41	89 31 42	.07	3	.5	.2	N	.3	N	N	N	30
1722810	37 55 41	89 31 42	.1	2	.5	<.2	N	.5	N	N	N	70
1722830	37 55 41	89 31 42	.07	2	.5	.2	N	.3	N	N	N	50
1722850	37 55 41	89 31 42	.07	3	.7	.3	N	.5	N	N	N	50
1722870	37 55 41	89 31 42	.2	5	1	<.2	N	.5	N	N	N	100
1722890	37 55 41	89 31 42	.07	3	.7	.2	N	.3	N	N	N	50
1722910	37 55 41	89 31 42	.15	3	1	.2	N	.5	N	N	N	70
1722930	37 55 41	89 31 42	.1	2	.7	.2	N	.3	N	N	N	50
1722950	37 55 41	89 31 42	.07	3	1	<.2	N	.5	N	N	N	70
1722970	37 55 41	89 31 42	.1	2	.7	.2	N	.3	N	N	N	70
1722990	37 55 41	89 31 42	.07	3	1	.2	N	.5	N	N	N	100
1723010	37 55 41	89 31 42	.1	3	1	.3	N	.3	N	N	N	70
1723030	37 55 41	89 31 42	.07	7	1.5	.5	N	.3	N	N	N	50
1723050	37 55 41	89 31 42	.07	5	2	.7	N	.3	N	N	N	50

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I721810	500	1.5	N	N	20	150	30	50	N	<50	50	7	<20
I721830	100	1.5	N	N	20	200	30	50	N	<50	30	<5	<20
I721850	300	1.5	N	N	15	150	20	30	N	<50	30	10	<20
I721870	70	1.5	N	N	<10	50	7	20	N	<50	15	N	N
I721890	150	1.5	N	N	15	150	20	50	N	<50	30	N	N
I721910	70	1	N	N	<10	70	10	30	N	N	20	N	N
I721930	700	1.5	N	N	15	100	30	50	N	<50	30	N	N
I721950	150	2	N	N	15	200	70	70	N	50	100	10	<20
I721970	>5,000	1.5	N	N	50	200	70	50	N	<50	70	15	<20
I721990	100	1	N	N	<10	50	10	50	N	N	15	N	N
I722010	200	2	N	N	15	200	15	50	N	<50	50	N	<20
I722030	150	2	N	N	10	100	15	50	N	<50	70	7	<20
I722050	100	1.5	N	N	<10	70	20	30	N	<50	30	N	N
I722070	100	1.5	N	N	10	70	20	20	N	<50	30	N	N
I722090	150	2	N	N	10	70	15	30	N	<50	50	N	N
I722110	1,500	1.5	N	N	30	150	50	30	N	<50	100	15	<20
I722150	200	1	N	N	10	70	50	20	N	N	150	20	<20
I722170	150	2	N	N	10	70	20	30	N	<50	100	<5	N
I722190	200	1.5	N	N	10	70	15	30	N	<50	70	N	N
I722210	150	1.5	N	N	10	150	15	70	N	<50	30	N	<20
I722230	200	1	N	N	<10	50	15	30	N	N	50	N	<20
I722250	200	<1	N	N	N	30	10	15	N	N	20	N	N
I722270	700	1	N	N	<10	50	15	20	N	N	30	N	N
I722290	300	1.5	N	N	<10	100	15	30	N	<50	50	N	N
I722310	300	1.5	N	N	10	100	15	20	N	N	50	N	N
I722330	500	1.5	N	N	<10	150	20	30	N	<50	30	N	<20
I722350	300	1.5	N	N	<10	100	15	15	N	N	30	N	N
I722370	300	1.5	N	N	<10	100	15	20	N	<50	50	N	<20
I722390	300	1	N	N	<10	70	20	30	N	<50	20	N	N
I722410	300	1.5	N	N	10	70	15	15	N	N	20	N	N
I722430	150	2	N	N	10	100	10	20	N	<50	20	N	<20
I722450	100	1.5	N	N	<10	70	20	30	N	N	15	N	N
I722470	300	1	N	N	<10	50	100	15	N	N	20	<5	N
I722530	100	1	N	N	10	30	30	10	N	N	20	5	N
I722550	200	1.5	N	N	10	50	15	20	N	<50	30	5	<20
I722570	100	<1	N	N	<10	70	10	15	N	N	20	N	N
I722590	300	1	N	N	<10	70	20	10	N	N	30	<5	N
I722610	100	<1	N	N	10	50	15	20	N	<50	15	N	N
I722630	200	1	N	N	10	70	15	15	N	N	20	N	N
I722650	150	<1	N	N	<10	50	15	20	N	N	15	N	N
I722670	150	1	N	N	<10	70	10	15	N	N	50	N	N
I722690	150	1.5	N	N	<10	30	30	10	N	N	20	N	N
I722710	100	1.5	N	N	<10	50	15	20	N	N	30	<5	N
I722730	100	1	N	N	10	30	10	10	N	N	15	N	N
I722750	150	2	N	N	<10	50	7	20	N	<50	20	N	N
I722770	150	1.5	N	N	<10	50	15	20	N	<50	20	N	N
I722790	70	1	N	N	<10	50	10	20	N	N	15	5	N
I722810	150	1.5	N	N	<10	30	10	10	N	N	30	5	N
I722830	100	1	N	N	<10	30	10	15	N	<50	15	N	N
I722850	150	<1	N	N	10	70	15	20	N	<50	20	7	<20
I722870	1,000	1.5	N	N	10	70	30	15	N	N	70	7	<20
I722890	1,500	1	N	N	<10	50	20	10	N	N	30	<5	N
I722910	300	1.5	N	N	<10	30	15	10	N	N	30	5	N
I722930	200	<1	N	N	<10	30	10	15	N	N	30	<5	N
I722950	500	1.5	N	N	10	70	15	20	N	N	50	5	N
I722970	100	1	N	N	<10	50	30	10	N	N	30	<5	N
I722990	150	2	N	N	<10	50	15	15	N	N	50	N	N
I723010	200	1	N	N	<10	30	15	15	N	N	50	<5	N
I723030	200	1.5	N	N	10	100	50	20	N	N	150	15	N
I723050	100	1	N	N	10	50	15	20	N	N	100	<5	N

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I721810	50	<10	N	7	N	N	N	150	100	<10	N	70	.1	7
I721830	70	10	N	7	N	N	N	150	150	<10	N	100	.083	7
I721850	70	N	N	7	N	N	N	100	700	<10	N	70	.12	7
I721870	20	<10	N	<5	N	N	N	50	50	N	N	50	.023	7
I721890	50	<10	N	7	N	N	N	100	N	<10	N	70	.07	7
I721910	30	N	N	5	N	N	N	70	N	N	N	50	.08	7
I721930	50	N	N	7	N	N	N	150	100	<10	N	70	.1	7
I721950	70	<10	N	10	N	N	N	150	500	10	200	70	.083	7
I721970	70	<10	N	10	N	<100	N	100	1,000	<10	<200	70	.09	7
I721990	15	<10	N	<5	N	N	N	50	N	N	N	30	.091	7
I722010	50	N	N	10	N	N	N	100	70	10	N	150	.09	7
I722030	50	N	N	7	N	N	N	100	700	<10	N	100	.091	7
I722050	30	<10	N	5	N	N	N	100	50	<10	N	100	.083	7
I722070	50	N	N	7	N	N	N	100	50	<10	N	150	.09	7
I722090	50	<10	N	7	N	N	N	100	N	<10	N	70	.043	7
I722110	100	<10	N	7	N	N	N	100	500	<10	N	150	.08	7
I722150	150	N	N	5	N	N	N	70	1,000	<10	N	100	.081	7
I722170	50	<10	N	7	N	<100	N	150	<20	<10	N	100	.08	7
I722190	50	<10	N	7	N	N	N	100	20	<10	N	100	.09	7
I722210	30	<10	N	7	N	N	N	100	N	<10	N	70	.06	7
I722230	20	<10	N	5	N	N	N	100	<20	<10	N	70	<.05	7
I722250	15	N	N	<5	N	N	N	70	N	N	N	50	.05	7
I722270	30	N	N	5	N	N	N	100	N	<10	N	100	<.05	7
I722290	30	N	N	7	N	N	N	150	N	<10	N	70	<.05	7
I722310	30	N	N	5	N	N	N	100	N	<10	N	70	<.05	7
I722330	30	<10	N	7	N	N	N	100	70	<10	N	100	<.05	7
I722350	30	N	N	5	N	N	N	150	N	<10	N	100	.06	7
I722370	30	N	N	7	N	N	N	100	N	<10	N	70	.05	7
I722390	20	<10	N	5	N	N	N	100	<20	<10	<200	70	<.05	7
I722410	30	N	N	5	N	N	N	100	<20	<10	N	70	.05	7
I722430	30	N	N	7	N	N	N	150	N	<10	N	70	.06	7
I722450	30	<10	N	5	N	N	N	100	N	N	N	50	.06	7
I722470	20	N	N	<5	N	N	N	70	20	N	N	70	<.05	7
I722530	50	N	N	<5	N	N	N	70	50	N	N	70	<.05	7
I722550	70	N	N	5	N	N	N	100	100	<10	N	100	<.05	7
I722570	50	N	N	<5	N	N	N	70	150	N	N	100	.07	7
I722590	30	N	N	<5	N	N	N	100	200	N	N	70	.05	7
I722610	20	<10	N	<5	N	N	N	70	N	<10	N	70	.05	7
I722630	30	N	N	5	N	N	N	100	50	<10	<200	70	.05	7
I722650	15	N	N	<5	N	N	N	50	20	N	N	50	<.05	7
I722670	20	N	N	7	N	N	N	100	N	<10	N	70	<.05	7
I722690	30	<10	N	5	N	N	N	70	30	N	N	70	<.05	7
I722710	30	<10	N	5	N	N	N	70	N	N	N	50	.05	7
I722730	20	N	N	<5	N	N	N	50	150	N	N	50	<.05	7
I722750	30	<10	N	7	N	N	N	100	N	<10	N	150	<.05	7
I722770	30	N	N	7	N	N	N	100	30	<10	N	70	.06	7
I722790	50	N	N	<5	N	N	N	50	70	N	N	50	<.05	7
I722810	30	N	N	5	N	N	N	100	100	N	N	70	<.05	7
I722830	30	N	N	<5	N	N	N	50	50	N	N	50	<.05	7
I722850	50	N	N	7	N	N	N	70	200	<10	N	70	<.05	7
I722870	50	N	N	7	N	N	N	100	100	N	N	70	.06	7
I722890	20	N	N	5	N	N	N	50	50	N	N	50	.06	7
I722910	30	N	N	5	N	N	N	70	300	N	N	50	<.05	7
I722930	15	N	N	<5	N	N	N	70	30	N	N	50	.06	7
I722950	30	N	N	7	N	N	N	100	70	<10	N	70	.06	7
I722970	20	N	N	<5	N	N	N	50	<20	N	N	30	.05	7
I722990	20	N	N	5	N	N	N	70	<20	<10	N	70	.05	7
I723010	15	10	N	<5	N	N	N	50	50	N	<200	50	.06	7
I723030	70	N	N	5	N	N	N	50	150	<10	N	70	.06	7
I723050	20	<10	N	<5	N	N	N	50	20	N	N	70	.08	7

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I723070	37 55 41	89 31 42	.1	7	2	1	N	.3	N	N	N	70
I723090	37 55 41	89 31 42	.1	5	1.5	.7	N	.5	N	N	N	100
I723110	37 55 41	89 31 42	.1	5	1.5	.7	N	.5	N	N	N	100
I723130	37 55 41	89 31 42	.07	7	1.5	.5	N	.5	N	N	N	100
I723150	37 55 41	89 31 42	.07	5	1	.7	N	.5	N	N	N	100
I723170	37 55 41	89 31 42	.07	7	1.5	1.5	N	.3	N	N	N	50
I723190	37 55 41	89 31 42	.15	5	1.5	1.5	N	.5	N	N	N	70
I723210	37 55 41	89 31 42	.05	5	1	.5	N	.7	N	N	N	100
I723230	37 55 41	89 31 42	.07	7	.7	<.2	N	.5	N	N	N	100
I723250	37 55 41	89 31 42	.07	5	.7	.2	N	.5	N	N	N	70
I723270	37 55 41	89 31 42	N	5	.7	.5	N	.3	N	N	N	70
I723290	37 55 41	89 31 42	<.05	7	.7	.3	N	.5	N	N	N	100
I723310	37 55 41	89 31 42	<.05	5	1	.3	N	.5	N	N	N	100
I723330	37 55 41	89 31 42	.05	7	1	.3	N	.3	N	N	N	70
I723350	37 55 41	89 31 42	N	5	1	.5	N	.5	N	N	N	100
I723378	37 55 41	89 31 42	.07	2	.5	.5	N	.3	N	N	N	70
I723400	37 55 41	89 31 42	.05	3	1	.5	N	.5	N	N	N	100
I723420	37 55 41	89 31 42	N	3	.7	.7	N	.5	N	N	N	70
I723438	37 55 41	89 31 42	.05	3	1	.3	N	.5	N	N	N	100
I723451	37 55 41	89 31 42	.05	5	1.5	.3	N	.5	N	N	N	150
I723460	37 55 41	89 31 42	<.05	7	1	.3	N	.5	N	N	N	100
I723470	37 55 41	89 31 42	.1	5	1	<.2	N	.3	N	N	N	70
I723480	37 55 41	89 31 42	<.05	5	1	.3	N	.5	N	N	N	70
I723503	37 55 41	89 31 42	.15	7	1	.2	N	.5	N	N	N	100
I723521	37 55 41	89 31 42	.5	>20	.2	N	N	.05	N	N	N	<10
I723557	37 55 41	89 31 42	.5	2	1.5	<.2	N	.2	N	N	N	70
I723575	37 55 41	89 31 42	.3	3	2	N	N	.2	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I723070	300	1.5	N	N	15	100	30	30	N	N	150	<5	N
I723090	200	1.5	N	N	15	70	50	30	N	<50	200	<5	N
I723110	200	1.5	N	N	10	70	20	20	N	N	150	5	N
I723130	200	2	N	N	15	100	50	30	N	<50	100	5	<20
I723150	200	2	N	N	10	70	15	30	N	<50	150	<5	<20
I723170	1,000	1	N	N	15	150	15	50	N	N	200	15	N
I723190	300	1.5	N	N	10	70	15	30	N	N	150	5	N
I723210	1,000	2	N	N	10	100	30	30	N	<50	200	5	<20
I723230	100	1.5	N	N	10	100	50	20	N	<50	200	<5	N
I723250	100	1	N	N	10	70	20	30	N	N	100	7	N
I723270	100	1	N	N	<10	100	15	50	N	<50	70	<5	N
I723290	500	2	N	N	10	100	200	20	N	<50	100	10	N
I723310	150	1.5	N	N	10	150	15	50	N	<50	70	N	N
I723330	150	1	N	N	10	150	15	50	N	N	150	7	N
I723350	500	2	N	N	10	150	50	50	N	<50	50	5	N
I723378	100	1.5	N	N	10	30	15	20	N	<50	50	N	N
I723400	150	3	N	N	10	100	20	30	N	50	70	N	<20
I723420	150	1	N	N	10	70	50	20	N	<50	30	N	<20
I723438	100	1.5	N	N	10	50	70	20	N	<50	70	N	N
I723451	200	2	N	N	10	70	50	30	N	<50	50	N	<20
I723460	150	1.5	N	N	15	100	20	50	N	<50	30	<5	N
I723470	100	1.5	N	N	10	100	15	20	N	N	30	5	N
I723480	1,500	1.5	N	N	15	100	20	50	N	<50	30	<5	N
I723503	200	2	N	N	10	100	30	30	N	<50	70	<5	N
I723521	20	N	N	N	70	1,000	700	5	N	N	1,000	70	N
I723557	50	<1	N	N	N	20	15	50	N	<50	20	N	N
I723575	30	1	N	N	N	<10	10	50	N	N	30	<5	<20

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I72, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I723070	50	<10	N	5	N	N	N	70	N	<10	N	100	<.05	7
I723090	70	10	N	7	N	<100	N	100	20	<10	N	150	.07	7
I723110	70	N	N	7	N	<100	N	70	100	<10	N	100	.09	7
I723130	70	<10	N	7	N	N	N	100	100	<10	<200	150	<.05	7
I723150	50	N	N	7	N	N	N	70	100	<10	N	100	<.05	7
I723170	70	<10	N	5	N	N	N	50	N	N	N	70	<.05	7
I723190	50	<10	N	7	N	N	N	70	70	<10	N	100	<.05	7
I723210	70	10	N	10	N	N	N	100	500	<10	N	100	<.05	7
I723230	50	N	N	7	N	N	N	100	100	<10	300	70	<.05	22
I723250	70	<10	N	5	N	100	N	70	100	<10	N	150	<.05	22
I723270	30	<10	N	5	N	N	N	70	50	<10	N	70	<.05	22
I723290	70	N	N	5	N	N	N	70	200	<10	N	100	<.05	22
I723310	30	10	N	7	N	N	N	70	<20	<10	N	70	<.05	22
I723330	50	<10	N	5	N	N	N	50	200	<10	N	50	<.05	22
I723350	50	<10	N	7	N	N	N	100	70	<10	N	70	<.05	22
I723378	20	N	N	<5	N	N	N	70	N	<10	N	150	<.05	22
I723400	30	<10	N	7	N	N	N	150	N	<10	N	100	.07	22
I723420	20	N	N	5	N	N	N	100	100	<10	N	100	.08	22
I723438	20	N	N	7	N	N	N	70	50	<10	N	70	.08	25
I723451	20	N	N	7	N	N	N	100	20	<10	N	70	.06	25
I723460	30	<10	N	7	N	N	N	70	<20	<10	N	50	.08	25
I723470	30	N	N	5	N	N	N	70	70	<10	N	70	.08	25
I723480	50	<10	N	7	N	N	N	100	20	<10	N	70	.07	25
I723503	50	N	N	10	N	N	N	100	30	<10	N	70	.07	25
I723521	200	20	N	N	100	N	N	<10	50	N	1,500	70	.09	25
I723557	7	20	N	<5	N	N	N	30	N	N	N	70	.23	25
I723575	5	30	N	5	N	N	N	15	N	<10	N	200	.31	25

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 173, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
1730390	37 54 7	89 34 31	.05	1.5	.3	N	N	.5	N	N	N	50
1730450	37 54 7	89 34 31	N	2	.5	<.2	N	.5	N	N	N	70
1730510	37 54 7	89 34 31	.07	3	.7	<.2	N	.3	N	N	N	70
1730570	37 54 7	89 34 31	N	5	1	.3	N	.3	N	N	N	100
1730630	37 54 7	89 34 31	N	3	.5	.2	N	.5	N	N	N	70
1730690	37 54 7	89 34 31	.15	3	.7	.2	N	.5	N	N	N	70
1730730	37 54 7	89 34 31	.05	2	.5	.3	N	.3	N	N	N	30
1730770	37 54 7	89 34 31	.2	3	1	<.2	N	.5	N	N	N	100
1730820	37 54 7	89 34 31	.1	3	1	.5	N	.3	N	N	N	70
1730860	37 54 7	89 34 31	.1	7	1	.2	N	.7	N	N	N	100
1730900	37 54 7	89 34 31	<.05	5	.7	.2	N	.7	N	N	N	100
1730940	37 54 7	89 34 31	N	2	.5	.3	N	.5	N	N	N	50
1730990	37 54 7	89 34 31	<.05	5	1	.2	N	.5	N	N	N	100
1731040	37 54 7	89 34 31	<.05	2	.5	N	N	.5	N	N	N	70
1731090	37 54 7	89 34 31	<.05	2	.5	<.2	N	.5	N	N	N	100
1731140	37 54 7	89 34 31	N	3	1	.3	N	.3	N	N	N	100
1731190	37 54 7	89 34 31	N	1.5	.5	N	N	.2	N	N	N	50
1731240	37 54 7	89 34 31	.05	3	1	.2	N	.5	N	N	N	100
1731280	37 54 7	89 34 31	.2	5	1	.2	N	.5	N	N	N	100
1731330	37 54 7	89 34 31	.15	3	1	.3	N	.3	N	N	N	100
1731380	37 54 7	89 34 31	.07	5	1.5	.2	N	.5	N	N	N	100
1731430	37 54 7	89 34 31	.1	5	1	<.2	N	.5	N	N	N	100
1731480	37 54 7	89 34 31	.1	3	1	<.2	N	.3	N	N	N	70
1731530	37 54 7	89 34 31	.05	3	.7	<.2	N	.5	N	N	N	100
1731580	37 54 7	89 34 31	N	5	1	<.2	N	.5	N	N	N	70
1731630	37 54 7	89 34 31	.1	7	1.5	.2	N	.7	N	N	N	100
1731680	37 54 7	89 34 31	.1	3	.7	.2	N	.5	N	N	N	70
1731750	37 54 7	89 34 31	.15	5	1	<.2	N	.5	N	N	N	100
1731800	37 54 7	89 34 31	.2	5	1	<.2	N	.7	N	N	N	150
1731850	37 54 7	89 34 31	.15	5	1	<.2	N	.5	N	N	N	100
1731900	37 54 7	89 34 31	.2	3	1.5	.2	N	.5	N	N	N	100
1731950	37 54 7	89 34 31	.1	5	1	<.2	N	.3	N	N	N	100
1732000	37 54 7	89 34 31	<.05	3	1	<.2	N	.3	N	N	N	100
1732050	37 54 7	89 34 31	N	5	.7	<.2	N	.5	N	N	N	100
1732100	37 54 7	89 34 31	N	5	.7	<.2	N	.5	N	N	N	150
1732150	37 54 7	89 34 31	.05	3	.7	.3	N	.5	N	N	N	100
1732200	37 54 7	89 34 31	N	2	.5	.3	N	.3	N	N	N	50
1732250	37 54 7	89 34 31	N	3	1	.5	N	.5	N	N	N	70
1732300	37 54 7	89 34 31	N	2	.7	.5	N	.5	N	N	N	70
1732349	37 54 7	89 34 31	N	2	.5	.3	N	.3	N	N	N	100
1732400	37 54 7	89 34 31	.05	2	.7	.2	N	.3	N	N	N	70
1732450	37 54 7	89 34 31	<.05	3	1.5	<.2	N	.5	N	N	N	100
1732500	37 54 7	89 34 31	.2	3	1	.2	N	.5	N	N	N	70
1732540	37 54 7	89 34 31	.07	5	1	<.2	N	.5	N	N	N	100
1732580	37 54 7	89 34 31	N	3	.7	<.2	N	.3	N	N	N	50
1732620	37 54 7	89 34 31	.05	5	.7	<.2	N	.3	N	N	N	70
1732660	37 54 7	89 34 31	.07	5	1	.2	N	.5	N	N	N	100
1732700	37 54 7	89 34 31	N	3	.7	<.2	N	.3	N	N	N	70
1732750	37 54 7	89 34 31	.1	3	1	.2	N	.5	N	N	N	100
1732790	37 54 7	89 34 31	.3	2	.7	.2	N	.5	N	N	N	100
1732830	37 54 7	89 34 31	.15	1.5	.5	.3	N	.2	N	N	N	30
1732870	37 54 7	89 34 31	.2	1.5	.7	.5	N	.3	N	N	N	50
1732910	37 54 7	89 34 31	.1	3	1	1	N	.3	N	N	N	50
1732950	37 54 7	89 34 31	.15	5	1.5	.7	N	.5	N	N	N	70
1732990	37 54 7	89 34 31	.07	3	1.5	.7	N	.5	N	N	N	50
1733030	37 54 7	89 34 31	.07	5	1.5	1	N	.3	N	N	N	50
1733070	37 54 7	89 34 31	.15	5	1	2	N	.3	N	N	N	30
1733105	37 54 7	89 34 31	.1	3	.5	.7	N	.5	N	N	N	50
1733125	37 54 7	89 34 31	N	1	.15	1.5	N	.5	N	N	N	30
1733150	37 54 7	89 34 31	<.05	2	.3	1	N	.5	N	N	N	70

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 173, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
1730390	150	<1	N	N	<10	50	10	5	N	<50	30	N	N
1730450	150	1	N	N	<10	50	15	10	N	<50	50	N	N
1730510	150	1.5	N	N	<10	50	15	15	N	N	50	N	N
1730570	200	1.5	N	N	<10	50	30	20	N	<50	20	N	N
1730630	100	1	N	N	<10	50	15	20	N	<50	20	N	N
1730690	200	1	N	N	<10	100	15	15	N	N	50	N	N
1730730	100	N	N	N	<10	70	10	10	N	N	20	N	N
1730770	150	1.5	N	N	<10	50	150	20	N	<50	30	N	N
1730820	150	1	N	N	<10	70	10	30	N	<50	20	N	N
1730860	150	2	N	N	<10	150	15	50	N	<50	70	N	N
1730900	200	1.5	N	N	15	70	15	15	N	<50	50	N	<20
1730940	100	1	N	N	<10	100	15	15	N	N	30	N	N
1730990	200	1.5	N	N	<10	100	15	30	N	<50	50	N	N
1731040	300	1	N	N	10	50	10	10	N	N	20	N	N
1731090	500	1	N	N	<10	50	15	20	N	N	15	N	N
1731140	200	<1	N	N	<10	150	20	50	N	<50	20	N	N
1731190	200	<1	N	N	10	30	20	5	N	N	15	N	N
1731240	150	1.5	N	N	<10	100	10	30	N	<50	30	N	N
1731280	100	1.5	N	N	15	150	15	30	N	<50	30	N	N
1731330	70	1	N	N	<10	100	15	30	N	<50	20	N	N
1731380	100	1.5	N	N	<10	100	15	30	N	<50	30	N	N
1731430	150	1.5	N	N	10	100	10	20	N	50	50	7	N
1731480	100	1	N	N	<10	100	15	30	N	<50	30	5	N
1731530	200	1.5	N	N	<10	70	15	30	N	<50	20	5	N
1731580	100	<1	N	N	<10	100	15	30	N	<50	30	N	N
1731630	200	1	N	N	10	300	20	50	N	<50	30	<5	N
1731680	100	1.5	N	N	<10	50	10	20	N	<50	15	N	N
1731750	150	1.5	N	N	<10	100	30	30	N	<50	20	<5	N
1731800	150	2	N	N	10	100	20	20	N	50	30	N	<20
1731850	150	1.5	N	N	10	70	15	30	N	<50	20	<5	N
1731900	150	1.5	N	N	10	100	20	30	N	<50	30	N	N
1731950	100	1	N	N	10	100	15	30	N	<50	30	<5	N
1732000	100	1.5	N	N	<10	70	15	30	N	<50	30	N	N
1732050	100	1	N	N	10	100	15	30	N	<50	20	<5	N
1732100	100	1	N	N	10	70	15	20	N	N	20	N	N
1732150	200	1.5	N	N	<10	50	15	20	N	N	30	N	N
1732200	100	N	N	N	N	30	10	15	N	N	20	N	N
1732250	200	1	N	N	<10	70	15	20	N	<50	50	N	N
1732300	300	1	N	N	<10	70	15	15	N	N	20	N	N
1732349	200	1	N	N	<10	50	15	10	N	N	15	N	N
1732400	70	1	N	N	<10	30	10	15	N	N	15	7	N
1732450	70	2	N	N	10	70	10	15	N	N	20	<5	N
1732500	70	1.5	N	N	<10	50	15	30	N	<50	20	N	N
1732540	100	2	N	N	<10	70	15	20	N	<50	30	5	N
1732580	50	<1	N	N	<10	30	10	20	N	N	15	N	N
1732620	70	1	N	N	10	70	15	20	N	N	30	15	N
1732660	150	2	N	N	<10	70	15	20	N	<50	30	5	<20
1732700	70	1	N	N	<10	70	15	15	N	N	15	N	N
1732750	150	1.5	N	N	<10	50	15	30	N	<50	30	<5	N
1732790	100	<1	N	N	<10	30	10	20	N	N	20	N	N
1732830	100	N	N	N	N	15	10	5	N	N	10	N	N
1732870	100	<1	N	N	N	20	15	15	N	N	20	<5	N
1732910	200	1	N	N	10	70	10	20	N	N	50	N	N
1732950	200	1.5	N	N	10	100	15	50	N	N	70	N	N
1732990	200	1	N	N	10	70	20	30	N	N	70	<5	N
1733030	300	1.5	N	N	15	70	7	50	N	N	100	<5	N
1733070	300	1	N	N	15	70	10	30	N	N	70	N	N
1733105	300	1	N	N	<10	50	20	20	N	N	50	<5	N
1733125	150	<1	N	N	N	10	7	10	N	N	15	N	N
1733150	200	1.5	N	N	N	15	20	15	N	<50	30	N	<20

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I73, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I730390	15	300	N	<5	N	N	N	50	N	<10	N	150	<.05	3
I730450	20	200	N	5	N	N	N	50	N	<10	N	100	<.05	3
I730510	20	10	N	5	N	N	N	100	N	N	<200	50	.08	3
I730570	30	10	N	5	N	N	N	70	N	10	N	200	<.05	3
I730630	50	<10	N	5	N	N	N	70	N	<10	N	150	<.05	3
I730690	30	N	N	5	N	N	N	100	N	N	N	70	.07	4
I730730	20	N	N	<5	N	N	N	50	N	N	N	150	<.05	4
I730770	30	<10	N	7	N	N	N	100	N	<10	N	100	.07	4
I730820	20	10	N	7	N	N	N	70	N	<10	N	50	.1	4
I730860	70	<10	N	10	N	N	N	150	N	<10	N	70	.06	4
I730900	50	N	N	10	N	N	N	100	N	10	N	200	<.05	5
I730940	30	N	N	5	N	N	N	50	N	<10	N	200	<.05	5
I730990	50	N	N	7	N	N	N	70	100	<10	N	100	.06	5
I731040	20	N	N	5	N	N	N	50	30	<10	N	150	<.05	5
I731090	20	N	N	5	N	N	N	50	20	<10	N	100	<.05	5
I731140	50	<10	N	7	N	N	N	70	N	<10	N	70	.06	6
I731190	10	N	N	<5	N	N	N	50	N	N	N	50	.05	6
I731240	30	<10	N	10	N	N	N	70	N	<10	N	50	.06	6
I731280	50	N	N	7	N	N	N	70	<20	<10	N	70	.08	6
I731330	30	<10	N	5	N	N	N	70	N	<10	N	50	.08	6
I731380	50	<10	N	7	N	N	N	100	N	<10	N	70	.08	6
I731430	70	N	N	10	N	N	N	150	30	10	N	100	.07	6
I731480	70	<10	N	7	N	N	N	100	20	<10	N	50	.08	6
I731530	50	N	N	5	N	N	N	150	N	<10	N	100	.11	6
I731580	30	<10	N	5	N	N	N	150	N	N	N	70	.08	6
I731630	50	10	N	7	N	<100	N	100	100	<10	N	70	.08	7
I731680	15	N	N	7	N	N	N	100	N	<10	N	50	.08	7
I731750	50	N	N	5	N	<100	N	100	50	<10	N	70	.11	7
I731800	50	N	N	7	N	N	N	150	N	<10	N	100	.09	7
I731850	50	N	N	7	N	<100	N	100	N	<10	N	70	.08	7
I731900	30	N	N	7	N	<100	N	100	N	<10	N	70	.09	7
I731950	70	N	N	7	N	N	N	70	N	<10	N	70	.08	7
I732000	50	N	N	5	N	N	N	70	N	<10	N	70	.07	7
I732050	50	<10	N	5	N	N	N	100	N	<10	N	70	.06	7
I732100	30	N	N	5	N	N	N	100	N	<10	N	50	.07	7
I732150	20	N	N	5	N	N	N	100	N	N	N	70	.07	7
I732200	15	N	N	<5	N	N	N	50	N	N	N	50	.06	7
I732250	30	N	N	5	N	N	N	100	N	<10	N	100	.06	7
I732300	20	N	N	5	N	N	N	100	N	<10	N	70	.05	7
I732349	50	N	N	<5	N	N	N	70	50	N	N	50	<.05	7
I732400	50	N	N	<5	N	N	N	50	100	N	N	50	<.05	10
I732450	30	N	N	5	N	N	N	70	<20	N	N	50	.07	10
I732500	20	N	N	5	N	N	N	100	N	N	N	50	.06	10
I732540	50	N	N	7	N	N	N	100	N	N	N	70	.07	10
I732580	15	N	N	<5	N	N	N	50	20	N	N	30	.05	10
I732620	100	N	N	5	N	<100	N	50	50	N	N	50	.07	10
I732660	50	N	N	7	N	N	N	70	N	<10	N	70	.06	10
I732700	15	N	N	5	N	N	N	50	<20	N	N	30	.07	10
I732750	20	N	N	5	N	N	N	70	N	<10	N	50	.06	10
I732790	15	N	N	<5	N	N	N	50	<20	N	N	70	.06	10
I732830	10	N	N	N	N	<100	N	30	N	N	N	50	.06	10
I732870	10	N	N	N	N	N	N	50	<20	N	N	70	.07	10
I732910	20	N	N	<5	N	N	N	50	N	N	N	70	.08	15
I732950	50	<10	N	5	N	N	N	70	N	<10	N	100	.07	15
I732990	30	<10	N	5	N	N	N	50	50	<10	N	70	.08	15
I733030	50	<10	N	7	N	N	N	70	N	<10	N	70	.08	15
I733070	20	<10	N	5	N	N	N	50	N	N	N	70	.07	15
I733105	70	N	N	<5	N	<100	N	50	<20	N	N	200	<.05	15
I733125	5	N	N	N	N	N	N	30	N	<10	N	300	<.05	15
I733150	7	N	N	5	N	N	N	70	N	<10	N	150	.05	15

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I73, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I733170	37 54 7	89 34 31	N	3	1	1	N	.7	N	N	N	100
I733210	37 54 7	89 34 31	N	2	1	.7	N	.5	N	N	N	100
I733225	37 54 7	89 34 31	N	1.5	.3	1.5	N	.7	N	N	N	50
I733239	37 54 7	89 34 31	<.05	3	.5	1.5	N	.7	N	N	N	100
I733260	37 54 7	89 34 31	<.05	3	.3	1.5	N	.7	N	N	N	70
I733280	37 54 7	89 34 31	.07	2	.5	1	N	.5	N	N	N	50
I733300	37 54 7	89 34 31	.1	5	.7	.7	N	.7	N	N	N	100
I733325	37 54 7	89 34 31	.05	3	.5	.3	N	.5	N	N	N	70
I733350	37 54 7	89 34 31	.1	5	.7	.7	N	.5	N	N	N	50
I733370	37 54 7	89 34 31	.15	5	.7	.3	N	.5	N	N	N	100
I733400	37 54 7	89 34 31	.7	5	1	1	N	.3	N	N	N	70
I733430	37 54 7	89 34 31	.1	5	1	.2	N	.5	N	N	N	150
I733450	37 54 7	89 34 31	.1	3	1	.2	N	.3	N	N	N	100
I733470	37 54 7	89 34 31	.1	3	.7	.5	N	.3	N	N	N	70
I733490	37 54 7	89 34 31	.3	5	1	.3	N	.7	N	N	N	150
I733520	37 54 7	89 34 31	.15	3	1	.5	N	.5	N	N	N	100
I733550	37 54 7	89 34 31	.2	5	.7	.3	N	.5	N	N	N	100
I733580	37 54 7	89 34 31	20	1.5	3	<.2	N	.1	N	N	N	30
I733610	37 54 7	89 34 31	.2	2	1.5	<.2	N	.3	N	N	N	100
I733640	37 54 7	89 34 31	.07	3	1	.3	N	.5	N	N	N	70
I733670	37 54 7	89 34 31	.07	3	.5	.3	N	.7	N	N	N	100
I733700	37 54 7	89 34 31	.1	7	1	.7	N	.7	N	N	N	150
I733735	37 54 7	89 34 31	.3	5	1	.5	N	.5	N	N	N	70
I733775	37 54 7	89 34 31	.15	5	.7	.5	N	.3	N	N	N	70
I733805	37 54 7	89 34 31	.1	3	1	.3	N	.3	N	N	N	100
I733835	37 54 7	89 34 31	.2	5	.7	.3	N	.3	N	N	N	100
I733850	37 54 7	89 34 31	<.05	7	.7	.5	N	.5	N	N	N	150
I733950	37 54 7	89 34 31	20	2	7	.2	N	.15	N	N	N	70
I733960	37 54 7	89 34 31	10	5	5	.2	N	.3	N	N	N	70
I733990	37 54 7	89 34 31	.2	7	1	.3	N	.7	N	N	N	150
I734020	37 54 7	89 34 31	1.5	5	2	.2	N	.5	N	N	N	70
I734050	37 54 7	89 34 31	.1	3	.7	.2	N	.5	N	N	N	70
I734090	37 54 7	89 34 31	.05	7	.7	.3	N	.5	N	N	N	100
I734115	37 54 7	89 34 31	<.05	5	.5	.2	N	.5	N	N	N	100
I734144	37 54 7	89 34 31	N	3	.5	.3	N	.3	N	N	N	70

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 173, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I733170	200	1.5	N	N	<10	50	15	30	N	<50	30	5	<20
I733210	300	2	N	N	N	20	20	20	N	<50	150	N	N
I733225	200	1	N	N	N	10	10	7	N	<50	15	N	N
I733239	300	2	N	N	<10	30	30	15	N	<50	20	<5	N
I733260	200	1.5	N	N	<10	30	20	20	N	<50	70	7	<20
I733280	150	1.5	N	N	<10	30	30	30	N	N	150	N	N
I733300	200	1.5	N	N	10	50	70	30	N	<50	100	N	<20
I733325	150	1.5	N	N	<10	30	15	10	N	N	50	10	N
I733350	200	1	N	N	10	70	100	30	N	<50	150	5	N
I733370	150	2	N	N	<10	50	20	20	N	N	70	<5	N
I733400	200	1.5	N	N	15	50	50	50	N	<50	150	20	<20
I733430	150	1.5	N	N	<10	50	70	20	N	<50	150	10	N
I733450	150	1	N	N	10	50	50	30	N	<50	100	<5	N
I733470	100	<1	N	N	<10	50	30	20	N	N	50	5	N
I733490	200	1.5	N	N	15	70	50	30	N	N	150	<5	N
I733520	200	1.5	N	N	<10	50	20	20	N	N	100	<5	N
I733550	200	1.5	N	N	<10	50	50	15	N	N	100	7	<20
I733580	50	N	N	N	N	10	5	10	N	N	70	N	N
I733610	300	<1	N	N	10	70	30	30	N	N	70	<5	N
I733640	300	1	N	N	<10	100	30	30	N	N	50	7	N
I733670	300	2	N	N	<10	30	15	15	N	N	20	5	<20
I733700	500	1.5	N	N	10	70	70	30	N	<50	150	<5	<20
I733735	200	1.5	N	N	<10	50	50	15	N	N	150	10	N
I733775	200	1.5	N	N	<10	30	20	20	N	<50	200	<5	N
I733805	300	1	N	N	<10	30	15	20	N	N	100	7	N
I733835	150	1.5	N	N	<10	30	20	15	N	N	100	10	N
I733850	200	1	N	N	10	100	50	30	N	N	200	100	<20
I733950	300	<1	N	N	N	15	10	15	N	N	100	N	N
I733960	500	1	N	N	10	50	30	20	N	<50	70	7	N
I733990	700	1.5	N	N	10	70	70	70	N	<50	70	10	<20
I734020	500	1	N	N	<10	30	30	20	N	N	100	15	N
I734050	200	1.5	N	N	<10	50	30	30	N	<50	70	5	N
I734090	200	1.5	N	N	20	30	50	20	N	<50	200	5	N
I734115	300	2	N	N	10	30	15	15	N	N	200	15	<20
I734144	100	1.5	N	N	<10	30	10	20	N	N	150	5	N

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 173, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I733170	50	N	N	5	N	N	N	100	100	<10	N	100	.07	22
I733210	10	<10	N	5	N	N	N	70	N	<10	N	70	.05	22
I733225	15	N	N	<5	N	N	N	50	N	10	N	500	<.05	22
I733239	20	N	N	5	N	N	N	100	70	<10	N	200	<.05	22
I733260	70	N	N	5	N	N	N	70	200	N	N	200	.07	22
I733280	15	N	N	5	N	N	N	70	N	N	N	70	.07	22
I733300	20	N	N	7	N	N	N	100	N	<10	N	150	.07	22
I733325	200	N	N	5	N	N	N	70	100	N	N	70	.05	25
I733350	100	N	N	7	N	N	N	100	<20	<10	<200	70	.06	25
I733370	30	N	N	7	N	N	N	70	30	<10	N	70	.06	25
I733400	300	<10	N	7	N	N	N	70	700	<10	N	70	.06	25
I733430	100	<10	N	7	N	N	N	70	50	<10	300	100	.09	25
I733450	70	<10	N	5	N	N	N	70	N	N	N	100	.11	26
I733470	50	<10	N	<5	N	N	N	50	N	N	N	70	.16	26
I733490	70	<10	N	7	N	<100	N	100	<20	<10	N	100	.16	26
I733520	50	N	N	5	N	<100	N	70	N	<10	N	70	.12	26
I733550	100	N	N	7	N	100	N	100	<20	10	N	100	.11	26
I733580	10	<10	N	N	N	100	N	20	N	N	N	20	.07	26
I733610	50	<10	N	<5	N	N	N	70	100	N	N	70	.19	26
I733640	50	<10	N	<5	N	3,000	N	70	N	N	N	50	.21	26
I733670	50	N	N	5	N	N	N	70	500	<10	N	100	.06	26
I733700	50	N	N	7	N	1,500	N	100	N	<10	N	150	.1	26
I733735	100	N	N	<5	N	<100	N	50	500	N	N	70	.13	26
I733775	30	50	N	5	N	<100	N	70	50	N	N	100	.1	26
I733805	50	<10	N	5	N	N	N	50	30	<10	N	100	.11	30
I733835	150	N	N	5	N	N	N	70	100	<10	N	70	.08	30
I733850	1,000	N	N	5	N	300	N	70	500	N	N	70	.19	30
I733950	10	10	N	N	N	>5,000	N	30	N	N	N	30	.43	30
I733960	30	<10	N	5	N	>5,000	N	70	500	<10	N	70	.35	30
I733990	70	<10	N	7	N	>5,000	N	100	300	<10	200	100	.15	30
I734020	200	<10	N	<5	N	>5,000	N	70	<20	<10	N	200	.28	30
I734050	30	<10	N	5	N	150	N	100	70	N	N	100	.15	30
I734090	50	<10	N	7	N	100	N	100	30	<10	N	150	.07	30
I734115	150	N	N	7	N	<100	N	100	200	<10	N	100	.05	31
I734144	30	N	N	5	N	N	N	70	300	N	N	100	.05	31

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 174, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
1740470	37 50 41	89 26 18	<.05	5	.5	.3	N	.7	N	N	N	100
1740500	37 50 41	89 26 18	.07	5	.3	.2	N	.3	N	N	N	70
1740530	37 50 41	89 26 18	.1	7	1	.3	N	.5	N	N	N	100
1740560	37 50 41	89 26 18	.1	5	1	.5	N	.3	N	N	N	100
1740590	37 50 41	89 26 18	N	7	.7	.2	N	.5	N	N	N	100
1740640	37 50 41	89 26 18	<.05	5	.3	.2	N	.3	N	N	N	70
1740680	37 50 41	89 26 18	N	1	.15	<.2	N	.3	N	N	N	20
1740730	37 50 41	89 26 18	.05	2	.3	<.2	N	.7	N	N	N	50
1740770	37 50 41	89 26 18	.07	3	1	.2	N	.3	N	N	N	50
1740810	37 50 41	89 26 18	<.05	5	.5	.2	N	.5	N	N	N	70
1740850	37 50 41	89 26 18	.05	5	.7	<.2	N	.3	N	N	N	50
1740890	37 50 41	89 26 18	.05	7	1	.3	N	.5	N	N	N	100
1740930	37 50 41	89 26 18	.1	5	1	.2	N	.5	N	N	N	100
1740970	37 50 41	89 26 18	.1	3	1	<.2	N	.3	N	N	N	100
1741010	37 50 41	89 26 18	N	5	.5	<.2	N	.3	N	N	N	70
1741050	37 50 41	89 26 18	.2	5	.7	.2	N	.5	N	N	N	100
1741085	37 50 41	89 26 18	.15	5	.5	.2	N	.3	N	N	N	100
1741110	37 50 41	89 26 18	.07	5	1	.2	N	.5	N	N	N	100
1741150	37 50 41	89 26 18	N	3	.7	<.2	N	.3	N	N	N	70
1741180	37 50 41	89 26 18	<.05	5	1	.2	N	.5	N	N	N	100
1741220	37 50 41	89 26 18	N	3	1	.2	N	.5	N	N	N	100
1741260	37 50 41	89 26 18	N	2	.7	.5	N	.3	N	N	N	70
1741290	37 50 41	89 26 18	N	3	1	<.2	N	.5	N	N	N	100
1741340	37 50 41	89 26 18	N	3	.7	.2	N	.5	N	N	N	70
1741390	37 50 41	89 26 18	.07	3	1	.2	N	.5	N	N	N	70
1741420	37 50 41	89 26 18	N	5	1	.2	N	.5	N	N	N	100
1741450	37 50 41	89 26 18	.1	5	1	.2	N	.5	N	N	N	100
1741490	37 50 41	89 26 18	<.05	5	1	.2	N	.5	N	N	N	100
1741530	37 50 41	89 26 18	N	3	.7	<.2	N	.5	N	N	N	70
1741570	37 50 41	89 26 18	<.05	5	.7	.2	N	.5	N	N	N	70
1741610	37 50 41	89 26 18	.07	7	.7	.2	N	.5	N	N	N	100
1741630	37 50 41	89 26 18	.2	5	1	.2	N	.5	N	N	N	70
1741660	37 50 41	89 26 18	.05	5	.7	<.2	N	.5	N	N	N	70
1741700	37 50 41	89 26 18	.07	7	.7	.2	N	.5	N	N	N	100
1741740	37 50 41	89 26 18	.07	3	.7	.2	N	.3	N	N	N	70
1741780	37 50 41	89 26 18	.07	7	1	.2	N	.5	N	N	N	100
1741820	37 50 41	89 26 18	.05	5	.7	.2	N	.5	N	N	N	100
1741860	37 50 41	89 26 18	<.05	7	1	.2	N	.3	N	N	N	100
1741900	37 50 41	89 26 18	.2	5	.7	<.2	N	.3	N	N	N	70
1741940	37 50 41	89 26 18	.15	5	1	<.2	N	.5	N	N	N	100
1741980	37 50 41	89 26 18	.07	5	1	.3	N	.5	N	N	N	100
1742020	37 50 41	89 26 18	.07	7	1	.3	N	.7	N	N	N	100
1742060	37 50 41	89 26 18	<.05	5	.7	.2	N	.5	N	N	N	70
1742110	37 50 41	89 26 18	.05	5	.7	.3	N	.7	N	N	N	100
1742160	37 50 41	89 26 18	.05	7	1	.2	N	.7	N	N	N	100
1742200	37 50 41	89 26 18	.1	10	.7	.2	N	.7	N	N	N	100
1742250	37 50 41	89 26 18	.15	7	.5	<.2	N	.5	N	N	N	100
1742300	37 50 41	89 26 18	.1	10	.7	<.2	N	.5	N	N	N	100
1742340	37 50 41	89 26 18	.1	7	1	.2	N	.7	N	N	N	150
1742380	37 50 41	89 26 18	<.05	5	.7	.5	N	.5	N	N	N	70
1742430	37 50 41	89 26 18	.1	5	.7	.7	N	.5	N	N	N	70
1742480	37 50 41	89 26 18	.07	7	1	.7	N	1	N	N	N	100
1742530	37 50 41	89 26 18	N	10	1.5	.2	N	1	N	N	N	150
1742575	37 50 41	89 26 18	N	5	1	.3	N	1	N	N	N	100
1742590	37 50 41	89 26 18	N	5	1	.5	N	1	N	N	N	100
1742625	37 50 41	89 26 18	.1	5	.7	.3	N	.7	N	N	N	100
1742670	37 50 41	89 26 18	.1	3	1	.3	N	.7	N	N	N	100
1742710	37 50 41	89 26 18	.15	7	1.5	.2	N	.7	N	N	N	100
1742750	37 50 41	89 26 18	.1	2	1	.2	N	.5	N	N	N	70
1742790	37 50 41	89 26 18	.5	2	.7	.5	N	.5	N	N	N	100

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I74, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I740470	200	2	N	N	10	70	20	20	N	50	50	N	<20
I740500	100	1	N	N	10	70	50	30	N	N	20	5	N
I740530	100	1.5	N	N	15	100	30	30	N	<50	70	<5	N
I740560	150	1	N	N	10	150	50	50	N	N	30	5	N
I740590	150	1	N	N	20	50	30	20	N	<50	70	N	N
I740640	50	<1	N	N	<10	30	15	10	N	N	15	N	N
I740680	30	N	N	N	N	50	N	N	N	N	<10	N	N
I740730	70	N	N	N	<10	30	10	5	N	<50	15	N	<20
I740770	100	<1	N	N	10	150	15	10	N	N	10	N	N
I740810	300	1	N	N	15	100	100	30	N	N	20	5	N
I740850	100	1	N	N	20	50	50	20	N	N	15	N	N
I740890	200	1.5	N	N	15	70	70	30	N	<50	30	<5	N
I740930	200	1.5	N	N	15	100	20	50	N	<50	20	N	<20
I740970	100	1.5	N	N	10	70	15	30	N	N	20	N	N
I741010	300	1	N	N	20	50	50	15	N	N	15	<5	N
I741050	100	1.5	N	N	15	100	50	30	N	<50	30	N	<20
I741085	150	1.5	N	N	10	50	20	30	N	N	30	N	N
I741110	2,000	1.5	N	N	10	70	15	30	N	<50	50	N	N
I741150	700	<1	N	N	10	100	20	20	N	N	30	<5	N
I741180	100	1	N	N	10	70	15	30	N	<50	50	N	N
I741220	300	1.5	N	N	<10	100	20	20	N	<50	20	N	N
I741260	200	1.5	N	N	<10	100	20	30	N	<50	15	N	N
I741290	200	1.5	N	N	<10	70	15	20	N	<50	20	N	<20
I741340	1,000	1.5	N	N	10	70	15	30	N	N	20	N	N
I741390	150	1.5	N	N	10	200	30	30	N	<50	20	<5	N
I741420	1,000	1.5	N	N	15	150	20	50	N	<50	30	N	N
I741450	300	1.5	N	N	15	150	30	50	N	N	30	7	<20
I741490	100	1	N	N	10	100	50	50	N	<50	30	<5	N
I741530	200	1	N	N	10	70	20	20	N	N	20	N	N
I741570	500	1.5	N	N	10	70	30	30	N	<50	30	7	N
I741610	1,000	1.5	N	N	15	100	30	30	N	50	30	10	N
I741630	300	1	N	N	20	70	50	20	N	<50	50	5	N
I741660	1,500	1.5	N	N	10	100	20	20	N	<50	30	<5	N
I741700	150	1.5	N	N	30	100	50	30	N	<50	30	<5	N
I741740	1,000	1	N	N	10	70	30	30	N	<50	20	N	N
I741780	200	1.5	N	N	10	150	100	20	N	<50	30	N	N
I741820	2,000	1.5	N	N	15	70	50	30	N	<50	50	<5	N
I741860	200	1.5	N	N	10	100	30	30	N	N	30	5	N
I741900	70	1	N	N	<10	50	15	15	N	N	50	N	N
I741940	100	1.5	N	N	10	100	15	30	N	<50	70	<5	N
I741980	200	2	N	N	15	100	30	30	N	<50	30	N	N
I742020	500	2	N	N	10	150	50	30	N	50	50	5	<20
I742060	150	1.5	N	N	10	150	15	15	N	N	20	N	N
I742110	200	1	N	N	10	150	20	30	N	<50	30	<5	N
I742160	200	1.5	N	N	10	200	30	30	N	<50	30	N	N
I742200	200	1	N	N	20	200	50	20	N	<50	50	5	N
I742250	2,000	<1	N	N	30	30	20	7	N	N	200	N	N
I742300	200	1	N	N	15	700	100	20	N	N	200	50	N
I742340	300	1.5	N	N	10	70	20	20	N	<50	30	<5	N
I742380	150	1	N	N	10	70	20	20	N	N	20	N	N
I742430	200	1	N	N	10	50	30	20	N	N	30	N	N
I742480	500	1.5	N	N	<10	70	30	20	N	<50	50	N	N
I742530	300	2	N	N	15	200	30	15	N	50	50	N	N
I742575	300	1.5	N	N	10	100	20	30	N	<50	50	N	N
I742590	200	1.5	N	N	15	150	20	30	N	<50	30	N	N
I742625	150	1.5	N	N	15	70	50	20	N	<50	20	15	N
I742670	200	1.5	N	N	10	70	70	30	N	<50	30	<5	N
I742710	150	1.5	N	N	15	70	70	50	N	<50	30	10	N
I742750	100	1.5	N	N	10	50	50	20	N	N	20	N	N
I742790	200	1	N	N	<10	50	20	30	N	N	50	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I74, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I740470	50	<10	N	7	N	N	N	100	N	10	N	200	<.05	2
I740500	50	10	N	5	N	N	N	70	N	N	N	100	.07	2
I740530	50	N	N	7	N	N	N	100	N	<10	N	100	.12	2
I740560	50	<10	N	7	N	N	N	100	N	N	N	50	.12	2
I740590	70	10	N	7	N	N	N	70	N	10	N	150	<.05	2
I740640	20	N	N	<5	N	N	N	50	N	<10	N	100	<.05	2
I740680	N	N	N	N	N	N	N	30	N	N	N	500	<.05	2
I740730	20	N	N	<5	N	N	N	70	N	<10	N	300	<.05	2
I740770	50	N	N	<5	N	N	N	100	N	N	<200	100	<.05	2
I740810	70	<10	N	7	N	N	N	100	N	<10	N	150	.08	2
I740850	50	<10	N	5	N	N	N	70	N	N	N	70	.07	2
I740890	50	<10	N	7	N	N	N	100	<20	<10	N	70	.07	2
I740930	30	<10	N	7	N	N	N	100	70	N	<200	70	.07	2
I740970	20	N	N	5	N	N	N	70	N	N	N	70	.07	2
I741010	30	N	N	5	N	N	N	70	N	<10	200	100	.07	2
I741050	50	N	N	7	N	N	N	100	N	10	N	200	.07	2
I741085	20	<10	N	5	N	N	N	70	N	N	<200	70	.08	2
I741110	30	<10	N	7	N	N	N	100	N	<10	N	100	.11	2
I741150	50	N	N	5	N	N	N	70	N	<10	N	100	.05	2
I741180	30	<10	N	7	N	N	N	100	70	<10	N	70	.07	2
I741220	30	N	N	7	N	N	N	70	N	<10	N	150	.06	2
I741260	20	N	N	7	N	N	N	70	N	<10	N	50	.07	2
I741290	30	N	N	7	N	N	N	100	50	<10	N	100	.07	2
I741340	50	N	N	7	N	N	N	100	N	<10	N	100	.06	2
I741390	50	N	N	7	N	N	N	100	N	<10	N	70	.08	2
I741420	50	N	N	10	N	N	N	100	N	<10	<200	70	.08	2
I741450	100	<10	N	7	N	N	N	70	500	<10	N	70	.09	2
I741490	50	<10	N	7	N	N	N	70	50	N	N	70	.08	2
I741530	30	N	N	7	N	N	N	70	N	<10	N	70	.07	2
I741570	70	N	N	7	N	N	N	70	20	<10	N	70	.07	2
I741610	150	150	N	7	N	N	N	100	50	<10	N	70	.07	2
I741630	70	N	N	7	N	<100	N	70	50	<10	<200	100	.08	2
I741660	70	N	N	7	N	N	N	70	<20	<10	N	70	.08	2
I741700	70	N	N	7	N	N	N	100	N	<10	N	150	.09	2
I741740	30	N	N	5	N	N	N	70	N	<10	N	70	.1	2
I741780	50	N	N	10	N	N	N	70	N	<10	N	150	.08	2
I741820	70	<10	N	5	N	N	N	70	70	<10	N	100	.07	2
I741860	50	N	N	7	N	N	N	100	70	<10	N	100	.08	2
I741900	20	N	N	5	N	N	N	70	N	N	N	200	.06	2
I741940	50	10	N	7	N	N	N	100	50	10	N	100	.07	2
I741980	70	N	N	10	N	N	N	100	N	<10	N	100	.06	2
I742020	100	N	N	10	N	N	N	150	300	<10	N	150	.07	2
I742060	50	N	N	5	N	N	N	100	N	N	N	200	.05	2
I742110	70	N	N	7	N	N	N	100	N	<10	N	200	.05	2
I742160	70	N	N	10	N	N	N	150	N	<10	N	150	<.05	2
I742200	150	N	N	10	N	N	N	150	N	<10	N	150	<.05	2
I742250	150	N	N	<5	N	N	N	100	<20	N	N	150	.05	2
I742300	1,000	N	N	5	N	N	N	100	100	N	N	100	.05	2
I742340	100	N	N	5	N	N	N	150	N	N	N	150	.07	2
I742380	70	N	N	<5	N	N	N	100	30	N	N	150	.05	2
I742430	50	N	N	5	N	N	N	150	N	N	N	200	<.05	2
I742480	70	N	N	7	N	N	N	200	N	<10	N	200	<.05	2
I742530	70	N	N	10	N	N	N	200	N	<10	N	150	.06	2
I742575	50	N	N	7	N	N	N	150	N	<10	N	100	.06	2
I742590	70	N	N	7	N	N	N	150	N	<10	N	70	.06	2
I742625	50	N	N	5	N	N	N	150	N	<10	N	70	.05	10
I742670	30	N	N	7	N	N	N	100	N	<10	N	100	.06	10
I742710	100	<10	N	7	N	N	N	100	N	<10	N	100	.07	10
I742750	30	N	N	5	N	N	N	70	N	N	N	70	.05	10
I742790	30	N	N	5	N	N	N	100	N	<10	N	70	.05	10

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I74, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I742830	37 50 41	89 26 18	.15	5	1	<.2	N	.5	N	N	N	100
I742870	37 50 41	89 26 18	.5	2	.7	<.2	N	.3	N	N	N	70
I742910	37 50 41	89 26 18	.15	5	1	.3	N	.5	N	N	N	70
I742950	37 50 41	89 26 18	.2	5	1	.2	N	.5	N	N	N	100
I742990	37 50 41	89 26 18	.15	5	1	.3	N	.5	N	N	N	70
I743030	37 50 41	89 26 18	.2	7	1	.2	N	.7	N	N	N	150
I743070	37 50 41	89 26 18	.07	5	1	.2	N	.5	N	N	N	70
I743110	37 50 41	89 26 18	.1	2	.7	.2	N	.3	N	N	N	70
I743150	37 50 41	89 26 18	.3	7	1	.3	N	.5	N	N	N	100
I743190	37 50 41	89 26 18	.5	3	.7	.2	N	.5	N	N	N	100
I743230	37 50 41	89 26 18	.7	2	1	.5	N	.3	N	N	N	70
I743270	37 50 41	89 26 18	.3	2	.7	.2	N	.3	N	N	N	50
I743310	37 50 41	89 26 18	.7	3	1	.7	N	.5	N	N	N	70
I743360	37 50 41	89 26 18	1	7	1.5	1	N	.7	N	N	N	100
I743400	37 50 41	89 26 18	.5	5	1	.7	N	.3	N	N	N	50
I743440	37 50 41	89 26 18	.7	5	1.5	1	N	.5	N	N	N	70
I743480	37 50 41	89 26 18	.7	3	1	.7	N	.3	N	N	N	70
I743520	37 50 41	89 26 18	.5	3	1.5	.7	N	.5	N	N	N	70
I743560	37 50 41	89 26 18	.3	1.5	.5	1	N	.5	N	N	N	100
I743600	37 50 41	89 26 18	.05	1	.3	1.5	N	.5	N	N	N	50
I743640	37 50 41	89 26 18	.07	1.5	.2	1	N	.3	N	N	N	30
I743680	37 50 41	89 26 18	.05	2	.5	1	N	.5	N	N	N	70
I743705	37 50 41	89 26 18	.3	1.5	.2	.7	N	.3	N	N	N	50
I743723	37 50 41	89 26 18	.07	2	.3	.5	N	.5	N	N	N	50
I743740	37 50 41	89 26 18	.1	1.5	.2	.7	N	.3	N	N	N	30
I743761	37 50 41	89 26 18	.3	2	.3	.7	N	.5	N	N	N	50
I743781	37 50 41	89 26 18	.2	2	.3	.5	N	.5	N	N	N	50
I743799	37 50 41	89 26 18	.1	1.5	.2	.7	N	.3	N	N	N	30
I743820	37 50 41	89 26 18	.07	5	.3	.7	N	.5	N	N	N	70
I743840	37 50 41	89 26 18	.07	3	.3	.5	N	.5	N	N	N	70
I743860	37 50 41	89 26 18	.15	2	.7	.7	N	.5	N	N	N	70
I743893	37 50 41	89 26 18	.5	3	.7	1	N	.5	N	N	N	100

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I74, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I742830	150	1.5	N	N	10	50	30	20	N	<50	70	10	N
I742870	150	<1	N	N	N	20	10	5	N	N	50	N	N
I742910	200	1	N	N	20	70	50	30	N	<50	30	7	N
I742950	500	1	N	N	10	50	20	15	N	<50	70	15	N
I742990	200	1.5	N	N	10	50	30	20	N	N	30	7	N
I743030	200	2	N	N	10	150	30	20	N	50	50	7	N
I743070	300	1	N	N	10	70	20	20	N	<50	30	10	N
I743110	150	<1	N	N	<10	30	15	10	N	N	30	<5	N
I743150	200	1.5	N	N	15	100	50	20	N	N	50	15	<20
I743190	200	1.5	N	N	<10	30	30	10	N	N	30	<5	N
I743230	200	1	N	N	<10	20	20	15	N	N	30	5	N
I743270	100	1	N	N	<10	20	15	10	N	N	30	5	N
I743310	500	1.5	N	N	10	30	15	15	N	N	100	<5	N
I743360	500	1.5	N	N	15	70	30	20	N	<50	150	10	<20
I743400	300	1	N	N	15	50	20	20	N	N	50	5	N
I743440	500	1	N	N	15	50	20	20	N	N	100	5	N
I743480	300	1	N	N	10	50	20	20	N	N	70	<5	N
I743520	300	1.5	N	N	10	100	30	30	N	<50	70	5	N
I743560	300	1	N	N	<10	20	20	10	N	N	50	N	N
I743600	200	<1	N	N	N	10	15	7	N	N	20	N	N
I743640	150	<1	N	N	N	10	10	10	N	N	15	N	N
I743680	300	1	N	N	<10	20	15	7	N	<50	20	N	<20
I743705	200	N	N	N	N	15	15	5	N	N	20	<5	N
I743723	200	1	N	N	<10	20	15	5	N	N	30	N	N
I743740	150	<1	N	N	N	15	10	7	N	N	20	N	N
I743761	300	<1	N	N	N	30	15	10	N	N	50	N	N
I743781	200	<1	N	N	N	20	10	5	N	N	30	<5	N
I743799	150	<1	N	N	N	10	10	15	N	N	20	N	N
I743820	300	1	N	N	<10	30	20	15	N	N	70	5	N
I743840	200	<1	N	N	<10	20	15	7	N	N	30	N	N
I743860	200	1	N	N	<10	30	50	20	N	<50	50	N	N
I743893	300	1.5	N	N	<10	50	20	30	N	<50	70	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 174, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I742830	70	N	N	5	N	N	N	70	70	<10	N	70	.05	10
I742870	50	N	N	<5	N	N	N	50	N	N	N	50	<.05	10
I742910	70	15	N	5	N	N	N	100	50	<10	N	100	.06	10
I742950	200	N	N	5	N	N	N	100	500	N	N	70	.07	10
I742990	70	N	N	5	N	N	N	70	200	N	N	70	.06	10
I743030	150	N	N	7	N	N	N	100	150	<10	N	150	.06	10
I743070	100	<10	N	5	N	N	N	70	200	N	N	50	.07	10
I743110	50	N	N	5	N	N	N	70	<20	N	N	70	.06	10
I743150	200	N	N	7	N	N	N	100	500	<10	N	100	.06	10
I743190	30	N	N	5	N	N	N	100	30	<10	N	70	.05	10
I743230	70	N	N	<5	N	N	N	70	N	N	N	70	.06	10
I743270	50	N	N	<5	N	N	N	50	150	N	N	70	<.05	10
I743310	50	N	N	5	N	N	N	70	N	<10	N	100	.06	15
I743360	100	<10	N	10	N	N	N	100	700	<10	N	100	.06	15
I743400	50	N	N	5	N	N	N	50	200	N	N	70	.08	15
I743440	50	N	N	5	N	N	N	70	70	<10	N	70	.07	15
I743480	50	N	N	5	N	N	N	70	50	N	N	70	.05	15
I743520	50	N	N	7	N	N	N	100	150	<10	N	70	.06	15
I743560	30	N	N	<5	N	N	N	70	20	<10	N	200	<.05	22
I743600	<5	N	N	<5	N	N	N	50	N	10	N	300	<.05	22
I743640	7	N	N	<5	N	N	N	50	N	<10	N	150	.05	22
I743680	20	N	N	5	N	N	N	70	N	10	N	200	<.05	22
I743705	30	N	N	<5	N	N	N	50	<20	N	N	70	.06	22
I743723	20	N	N	<5	N	N	N	70	N	N	N	70	<.05	22
I743740	50	N	N	<5	N	N	N	50	20	N	N	100	<.05	22
I743761	15	N	N	<5	N	N	N	70	N	<10	N	100	<.05	22
I743781	50	N	N	<5	N	N	N	50	30	<10	N	150	<.05	22
I743799	10	N	N	N	N	N	N	50	N	N	N	100	<.05	22
I743820	70	N	N	5	N	N	N	100	<20	<10	N	150	<.05	22
I743840	30	N	N	<5	N	N	N	70	20	<10	N	70	<.05	22
I743860	20	N	N	5	N	N	N	100	<20	<10	N	70	.05	22
I743893	20	20	N	5	N	N	N	100	N	<10	N	70	.05	22

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I75, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I750260	37 46 58	89 36 59	.3	5	1	.5	N	.5	N	N	N	50
I750290	37 46 58	89 36 59	20	1.5	3	<.2	N	.1	N	N	N	20
I750320	37 46 58	89 36 59	.2	5	1.5	.2	N	.5	N	N	N	70
I750400	37 46 58	89 36 59	.15	7	1	.3	N	.5	N	N	N	50
I750420	37 46 58	89 36 59	<.05	7	1	.5	N	.7	N	N	N	70
I750435	37 46 58	89 36 59	.2	10	.5	.3	N	.3	N	N	N	50
I750460	37 46 58	89 36 59	10	.5	.5	<.2	N	.05	N	N	N	15
I750480	37 46 58	89 36 59	20	.5	1	N	N	.05	N	N	N	20
I750500	37 46 58	89 36 59	.2	1.5	.2	N	N	.3	N	N	N	50
I750540	37 46 58	89 36 59	.15	5	.5	<.2	N	.5	N	N	N	100
I750570	37 46 58	89 36 59	.1	3	.7	<.2	N	.5	N	N	N	50
I750590	37 46 58	89 36 59	N	1	.2	N	N	.2	N	N	N	30
I750615	37 46 58	89 36 59	<.05	1.5	.15	N	N	.2	N	N	N	30
I750635	37 46 58	89 36 59	.07	5	.7	<.2	N	.5	N	N	N	100
I750655	37 46 58	89 36 59	<.05	1	.15	N	N	.2	N	N	N	20
I750670	37 46 58	89 36 59	N	.7	.1	N	N	.1	N	N	N	<10
I750690	37 46 58	89 36 59	N	.3	.05	N	N	.05	N	N	N	N
I750715	37 46 58	89 36 59	N	.7	.03	N	N	.05	N	N	N	N
I750735	37 46 58	89 36 59	<.05	1.5	.15	N	N	.07	N	N	N	20
I750755	37 46 58	89 36 59	20	2	1.5	<.2	N	.1	N	N	N	50
I750775	37 46 58	89 36 59	1	10	.7	<.2	N	.5	N	N	N	100
I750800	37 46 58	89 36 59	.15	1.5	.15	N	N	.1	N	N	N	30
I750820	37 46 58	89 36 59	20	2	1	<.2	N	.15	N	N	N	50
I750845	37 46 58	89 36 59	7	5	.7	<.2	N	.1	N	N	N	100
I750865	37 46 58	89 36 59	7	1	1	N	N	.07	N	N	N	50
I750890	37 46 58	89 36 59	.7	.7	.1	N	N	.05	N	N	N	50
I750930	37 46 58	89 36 59	>20	.2	1	N	N	.007	N	N	N	<10
I750950	37 46 58	89 36 59	1	.5	.1	N	N	.03	N	N	N	30
I750970	37 46 58	89 36 59	.3	.7	.03	N	N	.015	N	N	N	50
I751020	37 46 58	89 36 59	.2	1.5	.02	N	N	.01	N	N	N	30
I751050	37 46 58	89 36 59	.07	.2	<.02	N	N	.002	N	N	N	50
I751100	37 46 58	89 36 59	.1	.7	.02	N	N	.01	N	N	N	70
I751130	37 46 58	89 36 59	.07	1.5	.1	N	N	.2	N	N	N	70
I751170	37 46 58	89 36 59	.3	5	.15	<.2	N	.2	N	N	N	150
I751200	37 46 58	89 36 59	.5	1	.05	N	N	.03	N	N	N	50
I751225	37 46 58	89 36 59	1.5	2	.1	N	N	.07	N	N	N	70
I751275	37 46 58	89 36 59	.3	.5	.07	N	N	.05	N	N	N	70
I751375	37 46 58	89 36 59	.2	2	.3	.5	N	.3	N	N	N	70
I751395	37 46 58	89 36 59	.3	1.5	.15	.3	N	.15	N	N	N	50
I751415	37 46 58	89 36 59	1.5	5	.2	1	N	.3	N	N	N	2,000
I751435	37 46 58	89 36 59	.7	3	.2	1.5	N	.1	N	N	N	100
I751455	37 46 58	89 36 59	.3	5	.2	.2	N	.15	<.5	N	N	20
I751475	37 46 58	89 36 59	.15	7	.07	N	N	.05	N	N	N	150
I751495	37 46 58	89 36 59	.2	2	.2	<.2	N	.2	N	N	N	50
I751515	37 46 58	89 36 59	<.05	3	.1	N	N	.15	N	N	N	50
I751535	37 46 58	89 36 59	N	10	.05	N	N	.02	N	N	N	20
I751565	37 46 58	89 36 59	.07	2	.1	N	N	.1	N	N	N	50
I751600	37 46 58	89 36 59	.07	.7	.1	N	N	.1	N	N	N	30
I751625	37 46 58	89 36 59	.2	1	.15	N	N	.2	<.5	N	N	50
I751650	37 46 58	89 36 59	N	.2	.05	N	N	.02	N	N	N	30
I751670	37 46 58	89 36 59	.05	.5	.07	N	N	.05	N	N	N	50
I751690	37 46 58	89 36 59	.15	.5	.1	N	N	.07	N	N	N	30
I751710	37 46 58	89 36 59	.15	.5	.07	N	N	.05	N	N	N	20
I751750	37 46 58	89 36 59	.1	.5	.1	N	N	.07	N	N	N	20
I751770	37 46 58	89 36 59	.15	.7	.1	N	N	.05	N	N	N	30
I751790	37 46 58	89 36 59	.1	.3	.07	N	N	.03	N	N	N	20
I751810	37 46 58	89 36 59	.1	.15	.05	N	N	.02	N	N	N	20
I751830	37 46 58	89 36 59	.1	.7	.1	N	N	.05	N	N	N	50
I751850	37 46 58	89 36 59	.15	.7	.1	N	N	.05	N	N	N	50
I751880	37 46 58	89 36 59	.07	.7	.1	N	N	.07	N	N	N	30

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I75, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I750260	500	<1	N	N	<10	50	20	10	N	N	50	N	N
I750290	70	N	N	N	N	30	5	5	N	N	200	<5	N
I750320	1,000	1.5	N	N	<10	100	15	30	N	<50	30	<5	N
I750400	200	1.5	N	N	15	150	30	70	N	<50	50	<5	N
I750420	150	2	N	N	20	150	150	50	N	<50	50	N	N
I750435	300	1	N	N	10	50	50	20	N	N	30	7	N
I750460	<20	N	N	N	N	N	N	N	N	N	150	N	N
I750480	20	N	N	N	N	10	<5	<5	N	N	200	N	N
I750500	200	N	N	N	N	15	15	5	N	N	10	N	N
I750540	1,000	1.5	N	N	10	50	7	30	N	<50	20	N	N
I750570	100	1	N	N	10	70	15	20	N	N	30	N	N
I750590	100	N	N	N	N	<10	20	5	N	N	<10	N	N
I750615	200	N	N	N	<10	15	15	<5	N	N	10	N	N
I750635	200	1.5	N	N	15	50	50	20	N	N	50	N	N
I750655	300	N	N	N	N	15	5	N	N	N	10	N	N
I750670	70	N	N	N	N	N	N	N	N	N	<10	N	N
I750690	50	N	N	N	N	N	N	N	N	N	N	N	N
I750715	150	N	N	N	N	N	N	N	N	N	<10	N	N
I750735	300	N	N	N	N	N	<5	N	N	N	15	N	N
I750755	1,500	<1	N	N	<10	20	5	10	N	N	300	N	N
I750775	1,500	1	N	N	10	70	70	10	N	<50	150	N	N
I750800	200	N	N	N	N	<10	7	N	N	N	15	N	N
I750820	70	<1	N	N	N	70	10	15	N	<50	50	N	N
I750845	100	1	N	N	<10	50	15	20	N	<50	100	N	N
I750865	30	N	N	N	N	<10	5	N	N	N	15	N	N
I750890	20	N	N	N	N	N	<5	N	N	N	10	N	N
I750930	N	N	N	N	N	10	N	N	N	N	<10	N	N
I750950	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I750970	70	N	N	N	N	N	5	N	N	N	10	N	N
I751020	30	N	N	N	N	N	15	N	N	N	20	N	N
I751050	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I751100	20	N	N	N	N	N	<5	N	N	N	15	N	N
I751130	100	N	N	N	N	50	15	N	N	N	20	10	<20
I751170	150	<1	N	N	N	50	30	<5	N	N	100	7	N
I751200	30	N	N	N	N	N	10	N	N	N	<10	N	N
I751225	50	N	N	N	N	N	30	N	N	N	<10	5	N
I751275	30	N	N	N	N	N	7	N	N	N	N	N	N
I751375	300	<1	N	N	N	50	30	5	N	N	70	N	N
I751395	200	N	N	N	N	<10	7	<5	N	N	20	N	N
I751415	200	5	N	30	<10	20	50	7	N	N	30	<5	N
I751435	200	N	N	N	N	<10	200	5	N	N	20	N	N
I751455	150	N	15	N	<10	10	150	10	N	N	50	<5	N
I751475	50	2	N	N	15	<10	200	5	N	N	30	7	N
I751495	70	N	N	N	N	<10	15	<5	N	N	10	N	N
I751515	50	N	N	N	N	10	5	N	N	N	70	N	N
I751535	N	N	N	N	N	<10	15	<5	N	N	500	5	N
I751565	100	N	N	N	N	<10	10	N	N	N	30	N	N
I751600	50	N	N	N	N	N	5	N	N	N	<10	N	N
I751625	100	N	N	N	N	<10	7	N	N	N	10	N	N
I751650	<20	N	N	N	N	N	N	N	N	N	N	N	N
I751670	30	N	N	N	N	N	5	N	N	N	<10	N	N
I751690	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I751710	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I751750	300	N	N	N	N	N	N	N	N	N	<10	N	N
I751770	70	N	N	N	N	N	N	N	N	N	<10	N	N
I751790	150	N	N	N	N	N	N	N	N	N	<10	N	N
I751810	<20	N	N	N	N	N	N	N	N	N	N	N	N
I751830	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I751850	70	N	N	N	N	N	N	N	N	N	<10	N	N
I751880	50	N	N	N	N	N	5	N	N	N	<10	N	N

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I75, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I750260	20	30	N	<5	N	N	N	70	N	<10	<200	200	<.05	4
I750290	10	20	N	<5	N	200	N	30	N	10	<200	10	.05	4
I750320	50	<10	N	7	N	<100	N	70	N	N	N	50	.1	4
I750400	70	<10	N	10	N	N	N	100	N	<10	N	70	.07	4
I750420	70	N	N	7	N	N	N	150	N	<10	N	100	.07	4
I750435	50	N	N	5	N	N	N	70	N	N	300	50	.06	4
I750460	N	<10	N	N	N	100	N	10	N	N	N	<10	<.05	4
I750480	<5	100	N	N	N	200	N	10	N	<10	N	10	<.05	4
I750500	10	N	N	N	N	N	N	30	N	N	N	1,000	<.05	5
I750540	50	N	N	7	N	N	N	100	N	<10	N	150	.05	5
I750570	20	N	N	<5	N	N	N	70	N	N	N	100	.11	5
I750590	7	N	N	N	N	N	N	30	N	N	N	70	<.05	5
I750615	10	N	N	N	N	N	N	20	N	N	N	150	<.05	5
I750635	30	<10	N	5	N	N	N	70	N	N	N	70	.05	5
I750655	5	N	N	N	N	N	N	20	N	N	N	150	<.05	6
I750670	<5	N	N	N	N	N	N	10	N	N	N	200	<.05	6
I750690	N	N	N	N	N	N	N	<10	N	N	N	20	<.05	6
I750715	<5	N	N	N	N	N	N	<10	N	N	N	50	<.05	6
I750735	7	N	N	N	N	N	N	20	N	N	N	30	<.05	6
I750755	10	15	N	<5	N	150	N	30	N	<10	N	20	<.05	6
I750775	30	<10	N	5	N	<100	N	100	N	<10	N	100	.05	6
I750800	10	N	N	N	N	N	N	20	N	N	N	20	<.05	6
I750820	10	100	N	<5	N	200	N	30	N	<10	N	20	<.05	6
I750845	30	<10	N	5	N	<100	N	100	N	<10	<200	50	.05	6
I750865	5	N	N	N	N	<100	N	15	N	N	N	20	.11	6
I750890	<5	N	N	N	N	N	N	<10	N	N	N	20	<.05	6
I750930	N	500	N	N	N	300	N	<10	N	N	N	N	<.05	6
I750950	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	6
I750970	5	N	N	N	N	<100	N	<10	N	N	300	30	.06	6
I751020	7	N	N	N	N	N	N	<10	N	N	N	N	.07	6
I751050	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	6
I751100	5	N	N	N	N	N	N	<10	N	N	500	N	<.05	6
I751130	10	N	N	N	N	100	N	20	500	N	200	200	.05	6
I751170	20	300	N	N	150	N	N	30	50	N	N	70	.05	7
I751200	7	15	N	N	N	N	N	10	20	N	300	<10	<.05	7
I751225	10	N	N	N	N	N	N	15	N	N	N	30	--	7
I751275	<5	N	N	N	N	N	N	10	N	N	300	<10	<.05	7
I751375	10	N	N	<5	N	<100	N	70	N	N	200	70	<.05	7
I751395	5	2,000	N	N	N	N	N	30	N	N	300	30	<.05	7
I751415	15	700	N	<5	>1,000	N	N	50	N	<10	1,500	200	.11	7
I751435	10	500	<100	N	30	N	N	20	N	N	N	30	.07	7
I751455	20	5,000	700	N	200	100	N	15	N	N	200	50	.06	7
I751475	70	70	N	N	N	<100	N	100	N	N	<200	10	<.05	7
I751495	15	N	N	N	N	N	N	30	N	N	N	20	.05	7
I751515	7	N	N	N	N	N	N	15	N	N	N	70	<.05	7
I751535	5	N	N	N	N	N	N	<10	N	N	<200	N	<.05	7
I751565	10	30	N	N	N	N	N	30	N	N	N	15	.05	7
I751600	10	N	N	N	N	N	N	20	N	N	N	10	<.05	7
I751625	15	N	N	N	N	N	N	30	N	N	N	20	.06	7
I751650	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	7
I751670	5	150	N	N	30	N	N	10	N	N	N	<10	<.05	7
I751690	5	N	N	N	N	N	N	10	N	N	N	10	.05	7
I751710	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	7
I751750	5	N	N	N	N	N	N	10	N	N	N	10	<.05	7
I751770	5	N	N	N	N	N	N	10	N	N	N	<10	<.05	7
I751790	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	7
I751810	N	N	N	N	N	N	N	<10	N	N	N	N	<.05	7
I751830	7	N	N	N	N	N	N	15	N	N	N	<10	<.05	7
I751850	7	<10	N	N	N	<100	N	20	N	N	N	<10	<.05	7
I751880	15	N	N	N	N	N	N	30	N	N	N	20	<.05	7

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I75, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I751910	37 46 58	89 36 59	<.05	1	.15	<.2	N	.1	N	N	N	30
I751940	37 46 58	89 36 59	.05	3	1	1	N	.3	N	N	N	70
I751960	37 46 58	89 36 59	<.05	5	.7	.5	N	.5	N	N	N	70
I751980	37 46 58	89 36 59	<.05	5	1	.7	N	.5	N	N	N	70
I752010	37 46 58	89 36 59	2	2	1	.3	N	.2	N	N	N	50
I752050	37 46 58	89 36 59	20	3	3	.3	N	.2	N	N	N	50
I752070	37 46 58	89 36 59	20	1.5	3	.2	N	.15	N	N	N	20
I752090	37 46 58	89 36 59	.7	2	1.5	.2	N	.2	N	N	N	50
I752175	37 46 58	89 36 59	.2	1	.2	<.2	N	.1	N	N	N	30
I752255	37 46 58	89 36 59	.3	.7	.2	<.2	N	.1	N	N	N	50
I752355	37 46 58	89 36 59	.15	1	.3	.2	N	.15	N	N	N	30
I752425	37 46 58	89 36 59	.07	5	1	1.5	N	.5	N	N	N	50
I752555	37 46 58	89 36 59	.05	3	1	1.5	N	.5	N	N	N	50
I752825	37 46 58	89 36 59	.15	10	.7	.3	N	.3	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I751910	70	N	N	N	N	N	10	N	N	N	10	N	N
I751940	200	1	N	N	30	50	50	30	N	<50	70	15	N
I751960	200	1.5	N	N	20	30	100	20	N	<50	100	70	N
I751980	300	1.5	N	N	30	50	100	30	N	<50	100	70	N
I752010	150	1	N	N	10	15	50	20	N	N	100	20	N
I752050	150	<1	N	N	<10	20	20	20	N	<50	150	7	N
I752070	70	N	N	N	N	20	7	10	N	N	100	N	N
I752090	150	<1	N	N	<10	20	20	20	N	N	30	N	N
I752175	50	N	N	N	N	N	10	N	N	N	10	N	N
I752255	100	N	N	N	N	N	<5	N	N	N	<10	N	N
I752355	100	N	N	N	N	<10	7	N	N	N	10	N	N
I752425	500	1.5	N	N	<10	50	10	30	N	N	50	N	<20
I752555	300	1.5	N	N	<10	50	7	30	N	N	50	N	N
I752825	200	1.5	N	N	15	50	70	50	N	N	300	5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I751910	30	N	N	N	N	N	N	50	N	N	N	20	<.05	7
I751940	150	15	N	7	N	N	N	150	N	10	<200	70	.09	7
I751960	100	10	N	5	N	N	N	200	N	<10	N	70	.08	7
I751980	100	15	N	7	N	<100	N	200	N	<10	N	70	.08	10
I752010	50	15	N	<5	N	N	N	100	N	N	N	50	.06	10
I752050	30	15	N	5	N	<100	N	70	N	<10	N	70	.07	10
I752070	10	<10	N	<5	N	<100	N	30	N	<10	N	30	.07	10
I752090	15	10	N	<5	N	N	N	70	N	N	N	70	.1	10
I752175	5	200	N	N	N	N	N	15	N	N	N	30	<.05	10
I752255	<5	N	N	N	N	N	N	15	N	N	N	50	<.05	10
I752355	5	N	N	N	N	N	N	20	N	N	N	50	<.05	10
I752425	15	N	N	5	N	N	N	70	N	<10	N	150	.07	15
I752555	10	N	N	5	N	N	N	50	N	N	N	150	.1	15
I752825	70	150	N	7	20	N	N	100	N	<10	N	70	.1	15

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 176, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
1760140	37 36 13	89 28 29	.15	.7	.15	1	N	.05	N	N	N	N
1760160	37 36 13	89 28 29	.1	.5	.1	1	N	.03	N	N	N	N
1760195	37 36 13	89 28 29	.07	.5	.03	.2	N	.02	N	N	N	N
1760220	37 36 13	89 28 29	.15	.15	.02	N	N	.007	N	N	N	N
1760240	37 36 13	89 28 29	.3	5	.03	N	N	.01	N	N	N	<10
1760260	37 36 13	89 28 29	<.05	.1	.03	N	N	.007	N	N	N	15
1760280	37 36 13	89 28 29	N	.2	.02	N	N	.005	N	N	N	10
1760300	37 36 13	89 28 29	N	.07	.02	N	N	.003	N	N	N	10
1760320	37 36 13	89 28 29	N	<.05	<.02	N	N	.003	N	N	N	30
1760340	37 36 13	89 28 29	N	.05	<.02	N	N	.005	N	N	N	30
1760360	37 36 13	89 28 29	N	.07	.02	N	N	.007	N	N	N	50
1760380	37 36 13	89 28 29	N	.2	.03	N	N	.02	N	N	N	50
1760400	37 36 13	89 28 29	.15	.3	.2	N	N	.015	N	N	N	15
1760420	37 36 13	89 28 29	.05	.2	.15	N	N	.03	N	N	N	20
1760440	37 36 13	89 28 29	.15	.3	.2	N	N	.03	N	N	N	15
1760460	37 36 13	89 28 29	.07	.5	.2	N	N	.05	N	N	N	30
1760480	37 36 13	89 28 29	.07	.3	.15	N	N	.03	N	N	N	20
1760500	37 36 13	89 28 29	.5	.5	.3	<.2	N	.07	N	N	N	20
1760520	37 36 13	89 28 29	.15	.7	.3	<.2	N	.07	N	N	N	10
1760535	37 36 13	89 28 29	.7	.7	1	<.2	N	.07	N	N	N	15
1760560	37 36 13	89 28 29	.2	.7	.5	<.2	N	.1	N	N	N	20
1760580	37 36 13	89 28 29	.1	.3	.2	N	N	.05	N	N	N	30
1760600	37 36 13	89 28 29	.05	.3	.15	N	N	.05	N	N	N	20
1760625	37 36 13	89 28 29	N	.2	.1	N	N	.03	N	N	N	10
1760645	37 36 13	89 28 29	<.05	.3	.1	N	N	.05	N	N	N	15
1760665	37 36 13	89 28 29	<.05	.7	.3	<.2	N	.07	N	N	N	20
1760700	37 36 13	89 28 29	.2	.5	.3	N	N	.03	N	N	N	15
1760720	37 36 13	89 28 29	.5	.7	.7	<.2	N	.07	N	N	N	20
1760740	37 36 13	89 28 29	.15	.7	.3	<.2	N	.1	N	N	N	15
1760770	37 36 13	89 28 29	.5	.5	.5	<.2	N	.1	N	N	N	20
1760800	37 36 13	89 28 29	.3	.5	.3	<.2	N	.07	N	N	N	10
1760830	37 36 13	89 28 29	.2	1	1	1	N	.15	N	N	N	15
1760860	37 36 13	89 28 29	.05	1.5	1.5	2	N	.3	N	N	N	15
1760890	37 36 13	89 28 29	.15	1.5	1.5	1	N	.2	N	N	N	20
1760920	37 36 13	89 28 29	.2	3	3	2	N	.3	N	N	N	30
1760950	37 36 13	89 28 29	.2	2	2	2	N	.3	N	N	N	50
1760980	37 36 13	89 28 29	.15	2	1.5	2	N	.2	N	N	N	15
1761010	37 36 13	89 28 29	.2	2	1.5	2	N	.3	N	N	N	30
1761040	37 36 13	89 28 29	1.5	1.5	1	.3	N	.3	N	N	N	70
1761070	37 36 13	89 28 29	20	.3	1	N	N	.02	N	N	N	N
1761100	37 36 13	89 28 29	20	.7	5	N	N	.03	N	N	N	10
1761120	37 36 13	89 28 29	.3	.3	.2	N	N	.015	N	N	N	10
1761140	37 36 13	89 28 29	.3	.5	.3	N	N	.03	N	N	N	15
1761170	37 36 13	89 28 29	.1	2	.5	N	N	.2	N	N	N	30
1761220	37 36 13	89 28 29	N	3	.3	N	N	.3	N	N	N	30
1761260	37 36 13	89 28 29	.3	5	.03	N	N	.03	N	N	N	<10
1761295	37 36 13	89 28 29	.2	10	.3	1	N	.07	N	N	N	<10
1761325	37 36 13	89 28 29	.5	.5	.5	N	N	.02	N	N	N	10
1761360	37 36 13	89 28 29	.3	7	1.5	N	N	.1	N	N	N	50
1761395	37 36 13	89 28 29	1	2	1	<.2	N	.15	N	N	N	30
1761425	37 36 13	89 28 29	.07	1	.2	N	N	.05	N	N	N	15
1761455	37 36 13	89 28 29	20	.2	5	N	N	.01	N	N	N	<10
1761480	37 36 13	89 28 29	.2	1.5	1	N	N	.1	N	N	N	50
1761500	37 36 13	89 28 29	7	2	2	.3	N	.15	N	N	N	50
1761530	37 36 13	89 28 29	1.5	3	1.5	.2	N	.15	N	N	N	30
1761560	37 36 13	89 28 29	.3	5	2	.2	N	.3	N	N	N	50
1761590	37 36 13	89 28 29	1.5	5	1.5	.2	N	.3	N	N	N	70
1761620	37 36 13	89 28 29	.5	.7	.2	N	N	.02	N	N	N	N
1761650	37 36 13	89 28 29	.7	.5	.2	N	N	.02	N	N	N	N
1761680	37 36 13	89 28 29	2	2	1	<.2	N	.15	N	N	N	15

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 176, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
1760140	150	N	N	N	N	N	N	N	N	N	15	N	N
1760160	150	N	N	N	N	N	<5	N	N	N	20	N	N
1760195	100	N	N	N	N	N	5	N	N	N	<10	N	N
1760220	N	N	N	N	N	N	N	N	N	N	N	N	N
1760240	<20	N	N	N	N	<10	30	N	N	N	100	<5	N
1760260	N	N	N	N	N	N	<5	N	N	N	N	N	N
1760280	N	N	N	N	N	N	N	N	N	N	N	N	N
1760300	N	N	N	N	N	N	N	N	N	N	N	N	N
1760320	N	N	N	N	N	N	N	N	N	N	N	N	N
1760340	N	N	N	N	N	N	N	N	N	N	N	N	N
1760360	<20	N	N	N	N	N	N	N	N	N	N	N	N
1760380	<20	N	N	N	N	N	N	N	N	N	N	N	N
1760400	<20	N	N	N	N	N	N	N	N	N	N	N	N
1760420	20	N	N	N	N	N	N	N	N	N	N	N	N
1760440	20	N	N	N	N	N	5	N	N	N	N	N	N
1760460	30	N	N	N	N	N	5	N	N	N	N	N	N
1760480	<20	N	N	N	N	N	<5	N	N	N	N	N	N
1760500	30	N	N	N	N	N	<5	N	N	N	N	N	N
1760520	30	N	N	N	N	<10	5	N	N	N	N	N	N
1760535	50	N	N	N	N	<10	5	N	N	N	<10	N	N
1760560	50	N	N	N	N	<10	5	N	N	N	<10	N	N
1760580	30	N	N	N	N	N	<5	N	N	N	N	N	N
1760600	20	N	N	N	N	N	N	N	N	N	N	N	N
1760625	50	N	N	N	N	N	N	N	N	N	N	N	N
1760645	20	N	N	N	N	N	N	N	N	N	N	N	N
1760665	50	N	N	N	N	N	5	N	N	N	<10	N	N
1760700	20	N	N	N	N	N	N	N	N	N	N	N	N
1760720	50	N	N	N	N	N	<5	<5	N	N	<10	N	N
1760740	30	N	N	N	N	N	10	N	N	N	N	N	N
1760770	50	N	N	N	N	N	5	N	N	N	N	N	N
1760800	30	N	N	N	N	N	7	N	N	N	N	N	N
1760830	150	N	N	N	N	10	5	10	N	N	<10	N	N
1760860	500	N	N	N	N	20	30	20	N	N	15	N	N
1760890	300	<1	N	N	N	20	15	15	N	N	10	N	N
1760920	500	<1	N	N	10	50	20	70	N	N	20	N	N
1760950	300	<1	N	N	<10	20	<5	20	N	N	15	N	N
1760980	300	<1	N	N	<10	30	5	50	N	N	20	N	N
1761010	500	<1	N	N	10	30	30	50	N	N	20	N	N
1761040	300	<1	N	N	N	15	15	50	N	N	30	N	N
1761070	<20	N	N	N	N	N	N	N	N	N	100	N	N
1761100	N	N	N	N	N	N	N	N	N	N	200	N	N
1761120	N	N	N	N	N	N	N	N	N	N	N	N	N
1761140	<20	N	N	N	N	N	N	N	N	N	N	N	N
1761170	200	<1	N	N	N	<10	15	15	N	N	10	<5	<20
1761220	2,000	<1	N	N	<10	<10	15	15	N	N	10	N	<20
1761260	50	N	N	N	N	N	10	N	N	N	<10	N	N
1761295	200	N	N	N	<10	<10	20	10	N	N	30	5	N
1761325	<20	N	N	N	N	N	5	N	N	N	<10	N	N
1761360	50	N	N	N	N	<10	30	30	N	N	30	7	N
1761395	70	N	N	N	N	20	10	70	N	N	30	N	N
1761425	<20	N	N	N	N	N	<5	<5	N	N	<10	N	N
1761455	N	N	N	N	N	N	N	N	N	N	10	N	N
1761480	30	N	N	N	N	N	5	20	N	N	15	N	N
1761500	150	N	N	N	N	20	20	20	N	N	20	N	N
1761530	100	N	N	N	N	30	15	50	N	N	20	N	N
1761560	200	<1	N	N	<10	50	70	70	N	N	50	N	N
1761590	200	<1	N	N	<10	30	30	50	N	N	70	<5	N
1761620	20	N	N	N	N	N	<5	N	N	N	<10	N	N
1761650	<20	N	N	N	N	N	20	N	N	N	N	N	N
1761680	100	N	N	N	N	10	15	10	N	N	20	<5	N

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I76, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I760140	<5	N	N	N	N	N	N	10	N	N	N	20	<.01	10
I760160	5	N	N	N	N	N	N	<10	N	N	N	30	<.01	10
I760195	5	N	N	N	N	N	N	<10	N	N	N	10	<.01	10
I760220	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760240	10	N	N	N	N	N	N	N	N	N	<200	30	<.01	10
I760260	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760280	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760300	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760320	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760340	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I760360	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I760380	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I760400	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I760420	N	N	N	N	N	N	N	<10	N	N	N	10	<.01	10
I760440	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.01	10
I760460	N	N	N	N	N	N	N	15	N	N	N	30	<.01	10
I760480	N	N	N	N	N	N	N	<10	N	N	N	20	<.01	10
I760500	<5	N	N	N	N	N	N	15	N	N	N	30	<.01	10
I760520	5	N	N	N	N	N	N	15	N	N	N	50	.05	10
I760535	<5	N	N	N	N	N	N	10	N	N	N	50	<.01	10
I760560	<5	N	N	N	N	N	N	15	N	N	N	30	<.01	10
I760580	N	N	N	N	N	N	N	10	N	N	N	20	<.01	10
I760600	N	N	N	N	N	N	N	<10	N	N	N	30	<.01	10
I760625	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I760645	<5	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I760665	5	N	N	N	N	N	N	15	N	N	N	20	<.01	10
I760700	N	N	N	N	N	N	N	<10	N	N	N	15	<.01	10
I760720	<5	N	N	N	N	N	N	20	N	N	N	30	<.01	10
I760740	<5	N	N	N	N	N	N	20	N	N	N	30	<.01	10
I760770	N	N	N	N	N	N	N	15	N	N	N	30	<.01	10
I760800	N	N	N	N	N	N	N	10	N	N	N	20	<.01	10
I760830	<5	N	N	N	N	N	N	30	N	N	N	30	.07	10
I760860	5	<10	N	<5	N	N	N	30	N	N	N	70	.06	10
I760890	7	N	N	<5	N	N	N	30	N	N	N	50	.11	10
I760920	10	15	N	5	N	N	N	50	N	N	N	70	.12	10
I760950	10	N	N	5	N	N	N	50	N	<10	N	70	.12	15
I760980	10	N	N	<5	N	N	N	30	N	N	N	50	.1	15
I761010	10	15	N	<5	N	N	N	30	N	N	N	70	.1	15
I761040	10	N	N	<5	N	N	N	50	N	N	N	70	.11	15
I761070	N	30	N	N	N	<100	N	<10	N	N	N	N	<.01	15
I761100	N	N	N	N	N	<100	N	10	N	N	N	<10	.05	15
I761120	N	N	N	N	N	N	N	N	N	N	N	N	.15	15
I761140	N	N	N	N	N	N	N	10	N	N	N	<10	<.01	15
I761170	5	<10	N	N	N	N	N	50	N	<10	N	150	.07	15
I761220	10	N	N	<5	N	300	N	30	N	<10	N	200	<.01	22
I761260	7	<10	N	N	N	1,500	N	10	N	N	1,500	10	<.01	22
I761295	10	150	N	N	N	300	N	15	N	N	<200	30	<.01	25
I761325	N	<10	N	N	N	N	N	N	N	N	N	15	--	25
I761360	7	20	N	N	N	N	N	15	N	N	N	50	.12	25
I761395	5	15	N	N	N	N	N	30	N	N	N	30	.13	25
I761425	<5	N	N	N	N	N	N	10	N	N	N	15	.12	26
I761455	N	<10	N	N	N	150	N	<10	N	N	N	N	<.01	26
I761480	<5	15	N	N	N	N	N	15	N	N	500	30	.19	26
I761500	7	<10	N	N	N	N	N	50	N	N	N	20	.84	26
I761530	7	10	N	<5	N	N	N	50	N	N	N	50	.44	26
I761560	15	15	N	<5	N	N	N	70	N	N	N	50	.23	26
I761590	10	10	N	<5	N	N	N	70	N	N	N	50	.23	26
I761620	N	N	N	N	N	N	N	<10	N	N	N	N	<.01	26
I761650	N	N	N	N	N	N	N	N	N	N	N	<10	.38	26
I761680	7	20	N	N	N	N	N	20	N	N	<200	30	.19	26

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 176, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I761700	37 36 13	89 28 29	20	.3	5	N	N	.02	N	N	N	<10
I761730	37 36 13	89 28 29	.3	2	1	.5	N	.15	N	N	N	15
I761800	37 36 13	89 28 29	.5	5	2	.3	N	.3	N	N	N	70
I761830	37 36 13	89 28 29	.07	1.5	.5	N	N	.05	N	N	N	15
I761860	37 36 13	89 28 29	.2	2	2	<.2	N	.2	N	N	N	50
I761880	37 36 13	89 28 29	.7	2	1	<.2	N	.1	N	N	N	20
I761900	37 36 13	89 28 29	3	2	3	.3	N	.1	N	N	N	30
I761930	37 36 13	89 28 29	15	.7	1.5	<.2	N	.03	N	N	N	15
I761960	37 36 13	89 28 29	15	1.5	3	.2	N	.1	N	N	N	50
I762030	37 36 13	89 28 29	1	2	3	.3	N	.2	N	N	N	20
I762060	37 36 13	89 28 29	.2	1.5	1.5	.2	N	.15	N	N	N	15
I762100	37 36 13	89 28 29	.2	.7	.5	N	N	.07	N	N	N	<10
I762130	37 36 13	89 28 29	.15	1.5	1.5	.2	N	.15	N	N	N	15
I762160	37 36 13	89 28 29	<.05	.7	.5	N	N	.07	N	N	N	10
I762190	37 36 13	89 28 29	1	1.5	2	.2	N	.2	N	N	N	30
I762220	37 36 13	89 28 29	.3	1	.7	N	N	.07	N	N	N	N
I762250	37 36 13	89 28 29	.15	1.5	.7	N	N	.1	N	N	N	15
I762275	37 36 13	89 28 29	N	.7	.1	N	N	.03	N	N	N	N
I762295	37 36 13	89 28 29	N	.7	.15	N	N	.03	N	N	N	10

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I761700	<20	N	N	N	N	N	N	<5	N	N	10	N	N
I761730	300	N	N	N	<10	50	50	50	N	N	20	<5	N
I761800	200	1	N	N	<10	50	50	70	N	N	100	50	<20
I761830	N	N	N	N	N	N	7	<5	N	N	10	15	N
I761860	100	N	N	N	<10	70	50	50	N	N	20	N	N
I761880	1,500	N	N	N	<10	30	30	30	N	N	20	5	N
I761900	2,000	<1	N	N	<10	50	30	70	N	N	30	<5	N
I761930	500	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I761960	300	N	N	N	N	20	5	20	N	N	15	N	N
I762030	2,000	N	N	N	<10	50	20	20	N	N	20	<5	N
I762060	2,000	N	N	N	<10	20	20	20	N	N	15	N	N
I762100	150	N	N	N	N	N	<5	N	N	N	<10	N	N
I762130	200	N	N	N	N	20	15	20	N	N	<10	N	N
I762160	70	N	N	N	N	<10	5	<5	N	N	N	N	N
I762190	200	N	N	N	<10	30	30	50	N	N	10	30	N
I762220	50	N	N	N	N	N	10	<5	N	N	<10	5	N
I762250	70	N	N	N	N	<10	20	N	N	N	10	N	N
I762275	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I762295	<20	N	N	N	N	N	<5	N	N	N	<10	N	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I761700	N	30	N	N	N	150	N	<10	N	N	N	N	.05	26
I761730	10	<10	N	<5	N	N	N	50	N	N	N	20	.2	26
I761800	20	30	N	5	N	N	N	100	N	N	700	50	.29	26
I761830	5	<10	N	N	N	N	N	10	N	N	300	30	.08	26
I761860	15	<10	N	<5	N	1,000	N	70	N	N	N	15	.28	26
I761880	10	15	N	N	N	>5,000	N	50	N	N	N	15	.4	26
I761900	10	15	N	<5	N	>5,000	N	50	N	N	N	30	.64	26
I761930	<5	10	N	N	N	>5,000	N	<10	N	N	N	<10	.2	26
I761960	7	<10	N	<5	N	5,000	N	30	N	N	N	20	.28	26
I762030	15	15	N	<5	N	>5,000	N	50	N	N	N	70	1.2	26
I762060	15	20	N	N	N	5,000	N	50	N	N	N	70	.68	26
I762100	5	50	N	N	N	N	N	20	N	N	N	50	.36	26
I762130	7	N	N	N	N	N	N	30	N	N	N	70	.17	26
I762160	5	N	N	N	N	N	N	20	N	N	N	30	.14	26
I762190	10	15	N	N	N	N	N	50	N	N	N	70	.14	30
I762220	15	<10	N	N	N	N	N	15	N	N	N	30	.06	30
I762250	15	N	N	N	N	N	N	20	N	N	N	50	.06	30
I762275	<5	20	N	N	N	N	N	<10	N	N	N	15	<.01	30
I762295	<5	N	N	N	N	N	N	<10	N	N	N	30	<.01	30

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
177R0124	37 31 13	89 10 32	.07	2	.7	<.2	N	.15
177R0150	37 31 13	89 10 32	.05	5	2	.7	N	.2
177R0184	37 31 13	89 10 32	.07	5	1.5	.5	N	.3
177R0205	37 31 13	89 10 32	.15	7	1	.5	N	.3
177R0240	37 31 13	89 10 32	1	1.5	.7	.5	N	.1
177R0260	37 31 13	89 10 32	.5	3	2	.5	N	.15
177R0291	37 31 13	89 10 32	1.5	5	3	1	N	.5
177R0307	37 31 13	89 10 32	.2	5	2	.7	N	.2
177R0330	37 31 13	89 10 32	.05	5	2	.3	N	.3
177R0350	37 31 13	89 10 32	.05	2	.5	.3	N	.2
177R0377	37 31 13	89 10 32	N	5	1	.5	N	.3
177R0396	37 31 13	89 10 32	N	3	1	1	N	.3
177R0415	37 31 13	89 10 32	N	.7	.15	<.2	N	.15
177R0462	37 31 13	89 10 32	N	.3	.07	N	N	.05
177R0479	37 31 13	89 10 32	N	.3	.03	N	N	.03
177R0510	37 31 13	89 10 32	N	7	2	.5	N	.3
177R0578	37 31 13	89 10 32	.3	5	3	.3	N	.2
177R0595	37 31 13	89 10 32	.7	5	3	1	N	.2
177R0625	37 31 13	89 10 32	<.05	2	1.5	.5	N	.15
177R0660	37 31 13	89 10 32	<.05	1.5	.5	.3	N	.15
177R0683	37 31 13	89 10 32	N	1	.7	.2	N	.1
177R0713	37 31 13	89 10 32	.05	5	5	.7	N	.2
177R0786	37 31 13	89 10 32	20	.7	5	N	N	.05
177R0805	37 31 13	89 10 32	.5	7	3	<.2	N	.2
177R0827	37 31 13	89 10 32	.2	2	1.5	<.2	N	.15
177R0846	37 31 13	89 10 32	.2	3	1.5	.2	N	.2
177R0869	37 31 13	89 10 32	.2	2	1	.2	N	.15
177R0888	37 31 13	89 10 32	.5	5	2	.2	N	.2
177R0919	37 31 13	89 10 32	.5	.5	.7	N	N	.03
177R0943	37 31 13	89 10 32	1	.7	.3	N	N	.03
177R0966	37 31 13	89 10 32	.5	1	.7	<.2	N	.1
177R0985	37 31 13	89 10 32	.7	2	1	.2	N	.15
177R1015	37 31 13	89 10 32	.3	.7	.5	N	N	.03
177R1034	37 31 13	89 10 32	.7	1.5	1.5	N	N	.07
177R1055	37 31 13	89 10 32	.05	.2	.1	N	N	.01
177R1076	37 31 13	89 10 32	.3	2	1.5	N	N	.1
177R1102	37 31 13	89 10 32	.5	.3	.15	N	N	.02
177R1121	37 31 13	89 10 32	2	.5	.2	N	N	.05
177R1140	37 31 13	89 10 32	.2	.15	.07	N	N	.015
177R1170	37 31 13	89 10 32	.15	.5	.15	N	N	.03
177R1190	37 31 13	89 10 32	N	5	3	.5	N	.2
177R1208	37 31 13	89 10 32	1	2	2	<.2	N	.3
177R1225	37 31 13	89 10 32	.2	3	2	<.2	N	.2
177R1246	37 31 13	89 10 32	.3	2	1	N	N	.1
177R1267	37 31 13	89 10 32	.15	3	5	.3	N	.3
177R1291	37 31 13	89 10 32	.07	3	2	.2	N	.3
177R1311	37 31 13	89 10 32	.1	5	3	.3	N	.5
177R1335	37 31 13	89 10 32	.2	2	1	N	N	.15
177R1359	37 31 13	89 10 32	.05	1.5	.7	N	N	.1
177R1382	37 31 13	89 10 32	.07	5	3	.3	N	.3
177R1402	37 31 13	89 10 32	.07	3	2	<.2	N	.2
177R1422	37 31 13	89 10 32	.07	5	3	.2	N	.2
177R1445	37 31 13	89 10 32	.05	5	1.5	<.2	N	.15
177R1465	37 31 13	89 10 32	.07	1.5	.7	N	N	.1
177R1483	37 31 13	89 10 32	<.05	3	2	<.2	N	.2
177R1502	37 31 13	89 10 32	.1	1	.5	N	N	.05
177R1522	37 31 13	89 10 32	.15	2	1.5	<.2	N	.15
177R1544	37 31 13	89 10 32	.05	2	1.5	N	N	.1
177R1567	37 31 13	89 10 32	.2	1	.5	N	N	.05
177R1586	37 31 13	89 10 32	.05	2	1.5	<.2	N	.3

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
177R0124	N	N	N	15	70	N	N	N	N	30	7
177R0150	N	N	N	70	100	1	N	N	<10	100	20
177R0184	N	N	N	70	150	<1	N	N	<10	70	7
177R0205	N	N	N	50	100	N	N	N	<10	50	15
177R0240	N	N	N	20	100	N	N	N	N	30	20
177R0260	N	N	N	30	50	N	N	N	<10	50	15
177R0291	N	N	N	70	70	<1	N	N	<10	100	5
177R0307	N	N	N	50	1,500	N	N	N	10	70	20
177R0330	N	N	N	50	200	1	N	N	10	100	10
177R0350	N	N	N	20	300	N	N	N	N	20	7
177R0377	N	N	N	50	300	<1	N	N	10	30	20
177R0396	N	N	N	30	50	N	N	N	<10	70	30
177R0415	N	N	N	N	<20	N	N	N	N	<10	<5
177R0462	N	N	N	<10	<20	N	N	N	N	N	N
177R0479	N	N	N	N	<20	N	N	N	N	N	N
177R0510	N	N	N	100	150	1.5	N	N	20	150	30
177R0578	N	N	N	70	150	<1	N	N	10	100	15
177R0595	N	N	N	70	100	<1	N	N	<10	70	5
177R0625	N	N	N	30	50	N	N	N	<10	70	30
177R0660	N	N	N	20	50	N	N	N	N	10	5
177R0683	N	N	N	15	50	N	N	N	N	15	<5
177R0713	N	N	N	50	150	1	N	N	15	100	500
177R0786	N	N	N	15	30	N	N	N	N	20	N
177R0805	<.5	N	N	70	100	<1	N	N	10	50	20
177R0827	N	N	N	50	50	N	N	N	<10	20	10
177R0846	N	N	N	30	50	N	N	N	<10	70	20
177R0869	N	N	N	20	50	N	N	N	N	50	15
177R0888	N	N	N	50	100	N	N	N	<10	50	20
177R0919	N	N	N	20	<20	N	N	N	N	N	<5
177R0943	N	N	N	20	<20	N	N	N	N	N	7
177R0966	N	N	N	<10	30	N	N	N	N	15	20
177R0985	N	N	N	30	50	N	N	N	<10	30	30
177R1015	N	N	N	10	<20	N	N	N	N	N	15
177R1034	N	N	N	15	70	N	N	N	N	15	20
177R1055	N	N	N	<10	N	N	N	N	N	N	5
177R1076	N	N	N	50	50	N	N	N	N	20	15
177R1102	N	N	N	30	<20	N	N	N	N	N	5
177R1121	N	N	N	15	30	N	N	N	N	10	15
177R1140	N	N	N	50	<20	N	N	N	N	N	N
177R1170	N	N	N	30	<20	N	N	N	N	N	<5
177R1190	N	N	N	100	150	1	N	N	10	100	150
177R1208	N	N	N	50	70	N	N	N	N	30	10
177R1225	N	N	N	70	70	<1	N	N	10	50	7
177R1246	N	N	N	50	50	N	N	N	<10	15	20
177R1267	N	N	N	100	100	1.5	N	N	10	100	30
177R1291	N	N	N	50	70	<1	N	N	<10	70	30
177R1311	N	N	N	100	100	<1	N	N	10	70	20
177R1335	N	N	N	50	50	N	N	N	N	20	7
177R1359	N	N	N	20	30	N	N	N	N	15	5
177R1382	N	N	N	50	70	<1	N	N	10	100	20
177R1402	N	N	N	70	70	<1	N	N	<10	50	30
177R1422	N	N	N	70	70	<1	N	N	<10	50	15
177R1445	N	N	N	30	70	N	N	N	<10	30	15
177R1465	N	N	N	50	50	N	N	N	N	10	5
177R1483	N	N	N	50	70	<1	N	N	<10	50	10
177R1502	N	N	N	30	<20	N	N	N	N	N	5
177R1522	N	N	N	30	50	N	N	N	<10	20	7
177R1544	N	N	N	50	30	N	N	N	N	15	5
177R1567	N	N	N	20	20	N	N	N	N	N	<5
177R1586	N	N	N	50	100	<1	N	N	<10	30	7

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I77, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I77R0124	5	N	N	15	N	N	15	N	N
I77R0150	70	N	<50	70	N	N	30	10	N
I77R0184	30	N	N	70	N	N	20	N	N
I77R0205	20	N	N	30	N	N	20	<10	N
I77R0240	7	N	N	<10	<5	N	10	<10	N
I77R0260	30	N	N	15	<5	N	30	15	N
I77R0291	50	N	N	30	N	N	30	<10	N
I77R0307	30	N	N	20	N	N	30	<10	N
I77R0330	70	N	N	70	N	N	30	10	N
I77R0350	<5	N	N	20	N	N	15	N	N
I77R0377	20	N	N	20	N	N	30	10	N
I77R0396	50	N	N	15	N	N	20	15	N
I77R0415	N	N	N	N	N	N	<5	N	N
I77R0462	N	N	N	N	N	N	N	N	N
I77R0479	N	N	N	N	N	N	N	N	N
I77R0510	70	N	<50	50	N	N	50	10	N
I77R0578	50	N	N	20	N	N	30	<10	N
I77R0595	50	N	N	30	N	N	20	10	N
I77R0625	20	N	N	<10	N	N	15	N	N
I77R0660	<5	N	N	10	N	N	7	N	N
I77R0683	<5	N	N	<10	N	N	5	N	N
I77R0713	100	N	N	10	N	N	20	<10	N
I77R0786	5	N	N	150	N	N	5	50	N
I77R0805	100	N	N	20	<5	N	20	50	N
I77R0827	20	N	N	10	N	N	15	10	N
I77R0846	30	N	N	10	5	N	20	30	N
I77R0869	20	N	N	10	<5	N	15	2,000	N
I77R0888	50	N	N	20	N	N	20	1,500	N
I77R0919	N	N	N	N	N	N	5	N	N
I77R0943	N	N	N	N	N	N	<5	N	N
I77R0966	5	N	N	N	N	N	5	N	N
I77R0985	20	N	N	10	N	N	15	10	N
I77R1015	N	N	N	N	N	N	<5	<10	N
I77R1034	N	N	N	<10	N	N	10	N	N
I77R1055	N	N	N	N	N	N	<5	N	N
I77R1076	7	N	N	15	N	N	15	N	N
I77R1102	N	N	N	N	N	N	5	N	N
I77R1121	N	N	N	N	<5	N	7	N	N
I77R1140	N	N	N	N	N	N	<5	N	N
I77R1170	N	N	N	N	N	N	5	N	N
I77R1190	70	N	<50	20	N	N	30	10	N
I77R1208	20	N	N	10	<5	N	20	<10	N
I77R1225	30	N	N	15	5	N	20	<10	N
I77R1246	10	N	N	10	<5	N	15	N	N
I77R1267	70	N	N	20	N	N	30	<10	N
I77R1291	70	N	N	15	<5	N	20	N	N
I77R1311	100	N	<50	30	<5	N	20	N	N
I77R1335	15	N	N	15	N	N	15	N	N
I77R1359	15	N	N	<10	N	N	10	N	N
I77R1382	100	N	N	15	N	N	20	N	N
I77R1402	30	N	N	15	N	N	20	N	N
I77R1422	20	N	N	15	N	N	20	N	N
I77R1445	20	N	N	10	N	N	15	<10	N
I77R1465	7	N	N	10	N	N	7	N	N
I77R1483	30	N	N	15	N	N	15	1,500	N
I77R1502	N	N	N	<10	N	N	5	N	N
I77R1522	15	N	N	10	N	N	15	<10	N
I77R1544	10	N	N	15	N	N	10	N	N
I77R1567	N	N	N	<10	N	N	10	N	N
I77R1586	20	N	N	10	N	N	15	N	N

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I77R0124	N	N	N	N	30	N	N	N	100	<.05	4
I77R0150	7	N	N	N	100	N	<10	<200	50	<.05	4
I77R0184	5	N	N	N	100	N	<10	N	70	<.05	4
I77R0205	<5	N	N	N	100	N	N	N	70	<.05	4
I77R0240	N	N	N	N	50	N	N	N	30	.08	4
I77R0260	<5	N	N	N	50	N	N	N	30	.12	4
I77R0291	7	N	N	N	70	N	<10	N	50	.09	4
I77R0307	5	N	N	N	70	N	N	N	30	.06	4
I77R0330	7	N	N	N	100	N	<10	N	30	<.05	4
I77R0350	N	N	N	N	30	N	N	N	70	<.05	5
I77R0377	<5	N	N	N	50	N	N	N	100	<.05	5
I77R0396	<5	N	N	N	50	N	<10	N	150	<.05	5
I77R0415	N	N	N	N	<10	N	N	N	100	<.05	5
I77R0462	N	N	N	N	<10	N	N	N	100	<.05	5
I77R0479	N	N	N	N	N	N	N	N	150	<.05	5
I77R0510	10	N	N	N	100	N	<10	N	50	<.05	5
I77R0578	5	N	N	N	70	N	N	N	50	.09	5
I77R0595	<5	N	N	N	70	N	<10	N	100	.08	5
I77R0625	<5	N	N	N	50	N	N	N	50	<.05	5
I77R0660	N	N	N	N	20	N	N	N	70	<.05	5
I77R0683	N	N	N	N	20	N	N	N	70	<.05	5
I77R0713	5	N	N	N	100	N	N	N	30	.08	5
I77R0786	N	N	150	N	20	N	<10	N	20	<.05	6
I77R0805	5	N	N	N	100	N	N	N	70	.12	6
I77R0827	<5	N	N	N	70	N	N	300	70	.09	6
I77R0846	<5	N	N	N	70	N	N	1,000	100	.31	6
I77R0869	N	N	N	N	50	N	N	700	150	.41	6
I77R0888	5	N	N	N	100	N	N	200	100	.43	6
I77R0919	N	N	N	N	15	N	N	200	30	.39	6
I77R0943	N	N	N	N	15	N	N	<200	<10	.99	6
I77R0966	N	N	1,000	N	20	N	N	N	70	1.01	6
I77R0985	<5	N	100	N	50	N	N	200	70	1.32	6
I77R1015	N	N	150	N	10	N	N	<200	10	.11	6
I77R1034	N	N	2,000	N	20	N	N	N	20	.29	6
I77R1055	N	N	<100	N	N	N	N	N	N	<.05	6
I77R1076	<5	N	N	N	70	N	N	200	30	<.05	6
I77R1102	N	N	N	N	15	N	N	700	<10	<.05	6
I77R1121	N	N	N	N	50	N	N	1,000	10	1.19	6
I77R1140	N	N	N	N	<10	N	N	N	N	<.05	6
I77R1170	N	N	N	N	10	N	N	300	<10	<.05	6
I77R1190	7	N	N	N	100	N	<10	<200	50	.13	6
I77R1208	<5	N	100	N	50	N	N	<200	30	.08	6
I77R1225	5	N	N	N	70	N	N	200	50	.06	6
I77R1246	<5	N	<100	N	50	N	N	500	20	.08	7
I77R1267	10	N	N	N	70	N	<10	<200	50	.1	7
I77R1291	<5	<10	N	N	70	N	N	<200	30	.08	7
I77R1311	5	N	N	N	100	N	N	<200	50	.08	7
I77R1335	<5	N	N	N	50	N	N	N	20	.06	7
I77R1359	N	N	N	N	30	N	N	300	10	.08	7
I77R1382	7	N	N	N	50	N	N	N	30	.15	7
I77R1402	5	N	N	N	50	N	N	N	30	.12	7
I77R1422	5	<10	N	N	70	N	N	300	30	.08	7
I77R1445	<5	N	700	N	50	N	N	300	20	.12	7
I77R1465	N	N	100	N	30	N	N	<200	20	.17	7
I77R1483	5	N	N	N	50	N	N	N	30	.13	7
I77R1502	N	N	N	N	10	N	N	<200	<10	.05	7
I77R1522	<5	N	N	N	30	N	N	200	30	.13	7
I77R1544	<5	N	N	N	30	N	N	N	20	.05	7
I77R1567	N	N	N	N	15	N	N	<200	10	.07	7
I77R1586	<5	N	N	N	70	N	N	<200	50	.15	7

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
177R1608	37 31 13	89 10 32	<.05	2	2	<.2	N	.2
177R1630	37 31 13	89 10 32	N	3	2	.2	N	.3
177R1650	37 31 13	89 10 32	.07	.3	.2	N	N	.02
177R1669	37 31 13	89 10 32	.05	1.5	.5	N	N	.07
177R1695	37 31 13	89 10 32	.07	.5	.2	N	N	.05
177R1714	37 31 13	89 10 32	.1	1.5	1.5	.3	N	.15
177R1740	37 31 13	89 10 32	.1	10	.7	N	N	.1
177R1763	37 31 13	89 10 32	.5	.3	.02	N	N	<.002
177R1785	37 31 13	89 10 32	1.5	1	.3	N	N	.03
177R1805	37 31 13	89 10 32	2	1.5	.15	N	N	.02
177R1826	37 31 13	89 10 32	.7	1	.05	N	N	.05
177R1852	37 31 13	89 10 32	20	1.5	1	N	N	.02
177R1875	37 31 13	89 10 32	5	1	.1	N	N	.02
177R1895	37 31 13	89 10 32	.3	1.5	.5	<.2	N	.1
177R1917	37 31 13	89 10 32	1	1.5	.15	N	N	.07
177R1940	37 31 13	89 10 32	10	2	1	<.2	N	.15
177R2411	37 31 13	89 10 32	.2	.5	.05	N	N	.02
177R2430	37 31 13	89 10 32	N	N	N	N	N	.002
177R2457	37 31 13	89 10 32	N	<.05	N	N	N	.005
177R2485	37 31 13	89 10 32	N	.1	<.02	N	N	.01
177R2504	37 31 13	89 10 32	<.05	.05	N	N	N	.003
177R2529	37 31 13	89 10 32	<.05	.15	N	N	N	.003
177R2553	37 31 13	89 10 32	.05	<.05	<.02	N	N	.003
177R2585	37 31 13	89 10 32	N	.5	.05	N	N	.015
177R2609	37 31 13	89 10 32	N	.3	.15	N	N	.05
177R2633	37 31 13	89 10 32	N	.2	.07	N	N	.02
177R2649	37 31 13	89 10 32	N	.2	.05	N	N	.02
177R2677	37 31 13	89 10 32	N	.07	.02	N	N	.01
177R2702	37 31 13	89 10 32	N	.2	.05	N	N	.02
177R2720	37 31 13	89 10 32	<.05	.2	.07	N	N	.03
177R2740	37 31 13	89 10 32	<.05	.1	.02	N	N	.01
177R2760	37 31 13	89 10 32	N	.2	.03	N	N	.02
177R2780	37 31 13	89 10 32	<.05	.3	.05	N	N	.02
177R2800	37 31 13	89 10 32	.07	.7	.15	N	N	.05
177R2819	37 31 13	89 10 32	N	.3	.1	N	N	.02
177R2843	37 31 13	89 10 32	N	.3	.07	N	N	.03
177R2867	37 31 13	89 10 32	N	2	1	.5	N	.2
177R2888	37 31 13	89 10 32	N	2	1.5	.5	N	.2
177R2909	37 31 13	89 10 32	N	.2	.03	N	N	.015
177R2925	37 31 13	89 10 32	N	.07	N	N	N	.005

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
177R1608	N	N	N	30	50	<1	N	N	<10	50	5
177R1630	N	N	N	20	70	<1	N	N	15	100	30
177R1650	.5	N	N	15	N	N	N	N	N	N	<5
177R1669	N	N	N	20	<20	N	N	N	N	<10	<5
177R1695	N	N	N	15	N	N	N	N	N	N	<5
177R1714	N	N	N	20	30	N	N	N	N	20	<5
177R1740	N	N	N	15	50	N	N	N	<10	15	70
177R1763	.7	N	N	10	N	N	N	N	N	N	<5
177R1785	N	N	N	20	<20	N	N	N	N	N	<5
177R1805	N	N	N	15	30	N	N	N	N	N	5
177R1826	N	N	N	20	20	N	N	N	N	N	10
177R1852	N	N	N	15	<20	N	N	N	N	<10	<5
177R1875	2	N	N	10	<20	N	70	N	N	<10	500
177R1895	<.5	N	N	15	20	N	N	N	N	15	15
177R1917	1.5	N	N	20	30	N	N	N	N	<10	20
177R1940	N	N	N	30	20	N	N	N	N	20	10
177R2411	N	N	N	N	<20	N	N	N	N	N	<5
177R2430	N	N	N	<10	N	N	N	N	N	N	N
177R2457	N	N	N	15	N	N	N	N	N	N	N
177R2485	N	N	N	10	N	N	N	N	N	N	N
177R2504	N	N	N	<10	N	N	N	N	N	N	N
177R2529	N	N	N	10	N	N	N	N	N	N	N
177R2553	N	N	N	10	N	N	N	N	N	N	N
177R2585	N	N	N	20	<20	N	N	N	N	<10	10
177R2609	N	N	N	30	30	N	N	N	N	N	<5
177R2633	N	N	N	30	<20	N	N	N	N	N	N
177R2649	N	N	N	30	<20	N	N	N	N	N	N
177R2677	N	N	N	50	N	N	N	N	N	N	N
177R2702	N	N	N	50	<20	N	N	N	N	N	<5
177R2720	N	N	N	50	<20	N	N	N	N	N	N
177R2740	N	N	N	30	N	N	N	N	N	N	N
177R2760	N	N	N	30	<20	N	N	N	N	N	<5
177R2780	N	N	N	70	<20	N	N	N	N	N	N
177R2800	N	N	N	100	50	N	N	N	N	N	N
177R2819	N	N	N	50	20	N	N	N	N	N	N
177R2843	N	N	N	50	<20	N	N	N	N	N	N
177R2867	N	N	N	70	200	<1	N	N	20	15	15
177R2888	N	N	N	70	300	<1	N	N	10	20	20
177R2909	N	N	N	<10	<20	N	N	N	N	N	N
177R2925	N	N	N	<10	N	N	N	N	N	N	<5

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
177R1608	30	N	N	10	N	N	20	15	N
177R1630	30	N	N	10	N	N	30	10	N
177R1650	N	N	N	N	N	N	<5	N	N
177R1669	<5	N	N	<10	N	N	10	N	N
177R1695	N	N	N	N	N	N	<5	N	N
177R1714	10	N	N	<10	N	N	10	N	N
177R1740	15	<10	N	100	10	N	15	30	N
177R1763	N	N	N	N	N	N	N	N	N
177R1785	N	N	N	N	N	N	<5	N	N
177R1805	N	N	N	<10	N	N	<5	N	N
177R1826	N	N	N	<10	N	N	10	30	N
177R1852	N	N	N	15	N	N	<5	10	N
177R1875	N	N	N	<10	N	N	10	>20,000	3,000
177R1895	5	N	N	<10	N	N	10	20	N
177R1917	<5	N	N	<10	N	N	15	2,000	<100
177R1940	7	N	N	<10	N	N	10	150	N
177R2411	N	N	N	<10	N	N	<5	N	N
177R2430	N	N	N	N	N	N	N	N	N
177R2457	N	N	N	N	N	N	N	<10	N
177R2485	N	N	N	N	N	N	N	N	N
177R2504	N	N	N	N	N	N	N	N	N
177R2529	N	N	N	N	N	N	N	N	N
177R2553	N	N	N	N	N	N	N	N	N
177R2585	N	N	N	10	N	N	5	N	N
177R2609	N	N	N	<10	<5	N	5	N	N
177R2633	N	N	N	N	N	N	<5	N	N
177R2649	N	N	N	N	N	N	5	N	N
177R2677	N	N	N	N	N	N	N	N	N
177R2702	N	N	N	N	N	N	<5	N	N
177R2720	N	N	N	N	N	N	<5	N	N
177R2740	N	N	N	N	N	N	N	N	N
177R2760	N	N	N	N	N	N	N	N	N
177R2780	N	N	N	<10	N	N	<5	N	N
177R2800	N	N	N	<10	N	N	5	N	N
177R2819	N	N	N	N	N	N	<5	N	N
177R2843	N	N	N	N	N	N	5	N	N
177R2867	15	N	N	15	N	N	30	<10	N
177R2888	20	N	N	15	N	N	30	N	N
177R2909	N	N	N	N	N	N	<5	N	N
177R2925	N	N	N	N	N	N	N	N	N

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 177, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
177R1608	5	N	N	N	50	N	N	N	30	.09	7
177R1630	5	N	N	N	70	N	N	N	30	.14	7
177R1650	N	N	N	N	<10	N	N	N	N	<.05	7
177R1669	N	N	N	N	20	N	N	N	15	.06	7
177R1695	N	N	N	N	15	N	N	N	<10	<.05	7
177R1714	<5	N	N	N	30	N	N	N	20	.08	7
177R1740	<5	N	N	N	50	N	N	2,000	20	.06	7
177R1763	N	N	N	N	N	N	N	200	N	<.05	7
177R1785	N	N	N	N	10	N	N	500	20	<.05	7
177R1805	N	N	N	N	N	N	N	300	15	<.05	7
177R1826	N	N	N	N	15	N	N	N	30	.14	7
177R1852	N	N	<100	N	10	N	N	N	<10	.12	7
177R1875	N	200	N	N	<10	N	N	700	10	.2	7
177R1895	N	N	N	N	50	N	N	N	15	.21	7
177R1917	N	N	N	N	30	N	N	1,000	30	.15	7
177R1940	<5	N	N	N	50	N	N	N	30	.06	7
177R2411	N	N	N	N	<10	N	N	N	30	<.05	10
177R2430	N	N	N	N	N	N	N	N	<10	<.05	10
177R2457	N	N	N	N	N	N	N	N	<10	<.05	10
177R2485	N	N	N	N	N	N	N	N	15	<.05	10
177R2504	N	N	N	N	N	N	N	N	15	<.05	10
177R2529	N	N	N	N	N	N	N	N	<10	<.05	10
177R2553	N	N	N	N	N	N	N	N	<10	<.05	10
177R2585	N	N	N	N	<10	N	N	N	<10	<.05	10
177R2609	N	N	N	N	15	N	N	N	10	<.05	10
177R2633	N	N	N	N	10	N	N	N	N	<.05	10
177R2649	N	N	N	N	15	N	N	N	<10	<.05	10
177R2677	N	N	N	N	N	N	N	N	<10	<.05	10
177R2702	N	N	N	N	<10	N	N	N	10	<.05	10
177R2720	N	N	N	N	10	N	N	N	<10	<.05	10
177R2740	N	N	N	N	N	N	N	N	N	<.05	10
177R2760	N	N	N	N	10	N	N	N	N	<.05	10
177R2780	N	N	N	N	<10	N	N	N	N	<.05	10
177R2800	N	N	N	N	15	N	N	N	10	<.05	10
177R2819	N	N	N	N	15	N	N	N	N	<.05	10
177R2843	N	N	N	N	10	N	N	N	<10	<.05	10
177R2867	<5	N	N	N	50	N	N	N	30	<.05	10
177R2888	5	N	N	N	100	N	N	N	30	<.05	10
177R2909	N	N	N	N	<10	N	N	N	N	<.05	10
177R2925	N	N	N	N	N	N	N	N	N	<.05	10

TABLE 10--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I78, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I780375	37 32 26	89 20 2	.07	.3	.07	N	N	.05	N	N	N	50
I780420	37 32 26	89 20 2	<.05	.5	.1	N	N	.05	N	N	N	30
I780470	37 32 26	89 20 2	.07	.5	.1	N	N	.07	N	N	N	30
I780630	37 32 26	89 20 2	.1	.5	.15	N	N	.05	N	N	N	20
I780725	37 32 26	89 20 2	.2	.7	.2	N	N	.1	N	N	N	30
I780795	37 32 26	89 20 2	.15	.15	1.5	N	N	.03	N	N	N	30
I780845	37 32 26	89 20 2	.15	1	.5	.2	N	.2	N	N	N	50
I780887	37 32 26	89 20 2	.07	2	1	.7	N	.5	N	N	N	100
I780915	37 32 26	89 20 2	.1	5	3	2	N	.5	N	N	N	70
I780935	37 32 26	89 20 2	1	5	3	1.5	N	.5	N	N	N	70
I781030	37 32 26	89 20 2	.3	7	3	2	N	.7	N	N	N	100
I781055	37 32 26	89 20 2	.07	5	2	2	N	.7	N	N	N	100
I781079	37 32 26	89 20 2	.1	3	.3	N	N	.2	N	N	N	50
I781094	37 32 26	89 20 2	.07	.5	1	N	N	.05	N	N	N	15
I781135	37 32 26	89 20 2	>20	.5	7	N	N	.05	N	N	N	10
I781190	37 32 26	89 20 2	.2	.3	1.5	.2	N	.7	N	N	N	100
I781268	37 32 26	89 20 2	.07	.2	.7	<.2	N	.3	N	N	N	70
I781288	37 32 26	89 20 2	.05	.2	.5	<.2	N	.5	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I780375	50	N	N	N	N	N	N	N	N	N	N	N	N
I780420	30	N	N	N	N	N	<5	N	N	N	N	N	N
I780470	50	N	N	N	N	N	<5	N	N	N	N	N	N
I780630	50	N	N	N	N	N	<5	N	N	N	N	N	N
I780725	30	N	N	N	N	N	N	N	N	N	N	N	N
I780795	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I780845	100	N	N	N	N	10	10	10	N	N	15	N	N
I780887	300	1	N	N	N	30	30	20	N	N	30	N	N
I780915	500	1.5	N	N	15	100	50	50	N	N	100	<5	N
I780935	300	1	N	N	20	100	100	30	N	N	150	N	N
I781030	700	2	N	N	20	70	15	50	N	N	200	N	<20
I781055	700	1.5	N	N	15	70	500	50	N	<50	100	N	<20
I781079	100	N	N	N	<10	<10	7	5	N	N	15	N	N
I781094	20	N	N	N	N	N	N	N	N	N	<10	N	N
I781135	30	N	N	N	N	N	N	N	N	N	200	N	N
I781190	300	1.5	N	N	10	50	20	30	N	<50	100	N	<20
I781268	150	1.5	N	N	<10	15	20	10	N	N	70	N	N
I781288	200	1.5	N	N	<10	20	30	15	N	N	100	N	<20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I780375	N	N	N	N	N	N	N	<10	N	N	N	<10	<.05	10
I780420	N	N	N	N	N	N	N	10	N	N	N	15	<.05	10
I780470	N	N	N	N	N	N	N	10	N	N	N	20	<.05	10
I780630	N	N	N	N	N	N	N	10	N	N	N	30	<.05	10
I780725	N	N	N	N	N	N	N	<10	N	N	N	10	<.05	10
I780795	N	N	N	N	N	N	N	<10	N	N	N	50	<.05	10
I780845	7	N	N	N	N	N	N	20	N	N	N	30	<.05	10
I780887	10	N	N	<5	N	N	N	50	N	N	N	70	.06	10
I780915	30	<10	N	5	N	N	N	100	N	<10	N	100	.1	10
I780935	50	<10	N	5	N	N	N	70	N	<10	N	100	.09	15
I781030	50	<10	N	7	N	N	N	100	N	10	N	150	.07	15
I781055	50	10	N	7	N	N	N	100	N	<10	N	200	.07	15
I781079	10	<10	N	N	N	N	N	30	N	N	N	20	<.05	15
I781094	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	15
I781135	N	N	N	N	N	150	N	<10	N	N	N	10	<.05	15
I781190	15	<10	N	7	N	N	N	70	N	10	N	150	.07	15
I781268	10	N	N	<5	N	N	N	50	N	N	N	70	<.05	22
I781288	15	N	N	5	N	N	N	70	N	N	N	100	.07	22

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 179, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I790128	37 55 32	89 53 6	.15	1	.2	1	N	.15	N	N	N	20
I790154	37 55 32	89 53 6	<.05	7	2	.2	N	.5	N	N	N	100
I790198	37 55 32	89 53 6	N	5	.3	N	N	.5	N	N	N	70
I790332	37 55 32	89 53 6	.07	3	.2	N	N	.3	N	N	N	50
I790355	37 55 32	89 53 6	<.05	1	.1	N	N	.1	N	N	N	15
I790379	37 55 32	89 53 6	.15	3	.15	N	N	.15	N	N	N	20
I790406	37 55 32	89 53 6	.2	1.5	.1	N	N	.2	N	N	N	10
I790429	37 55 32	89 53 6	.3	1.5	.15	N	N	.2	N	N	N	30
I790450	37 55 32	89 53 6	.15	.5	.03	N	N	.01	N	N	N	15
I790472	37 55 32	89 53 6	.2	.1	.05	N	N	.01	N	N	N	15
I790505	37 55 32	89 53 6	.2	2	.07	N	N	.02	N	N	N	20
I790530	37 55 32	89 53 6	.2	.07	.02	N	N	.005	N	N	N	20
I790549	37 55 32	89 53 6	.5	2	.1	N	N	.03	N	N	N	30
I790573	37 55 32	89 53 6	.2	1.5	.1	N	N	.1	N	N	N	30
I790593	37 55 32	89 53 6	.3	3	.2	.3	N	.2	.5	N	N	50
I790622	37 55 32	89 53 6	.7	2	.3	.3	N	.3	<.5	N	N	50
I790653	37 55 32	89 53 6	.2	1	.2	.5	N	.2	N	N	N	30
I790677	37 55 32	89 53 6	5	1.5	.2	N	N	.1	N	N	N	30
I790700	37 55 32	89 53 6	.3	7	.7	.2	N	.7	N	N	N	100
I790743	37 55 32	89 53 6	2	1	.3	N	N	.15	N	N	N	50
I790765	37 55 32	89 53 6	.1	.5	.05	N	N	.07	N	N	N	20
I790805	37 55 32	89 53 6	.2	.3	.05	N	N	.05	N	N	N	30
I790855	37 55 32	89 53 6	.7	.5	.05	N	N	.07	N	N	N	20
I791404	37 55 32	89 53 6	.05	.7	.07	<.2	N	.15	N	N	N	15
I791553	37 55 32	89 53 6	.07	5	1	.7	N	1	N	N	N	150
I791574	37 55 32	89 53 6	.15	10	.3	N	N	.3	N	N	N	70
I791595	37 55 32	89 53 6	2	10	.3	.5	N	.5	N	N	N	70
I791612	37 55 32	89 53 6	.2	5	.5	.3	N	.7	N	N	N	100
I791632	37 55 32	89 53 6	.2	20	.5	N	N	.5	N	N	N	100
I791650	37 55 32	89 53 6	.07	7	1	N	N	.1	<.5	N	N	100
I791670	37 55 32	89 53 6	.15	5	1.5	<.2	N	.5	5	N	N	70
I791686	37 55 32	89 53 6	.2	2	1.5	N	N	.3	N	N	N	100
I791696	37 55 32	89 53 6	.15	2	2	N	N	.2	N	N	N	100

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 179, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I790128	300	N	N	N	N	<10	150	5	N	N	20	N	N
I790154	200	1	N	N	10	100	50	70	N	50	100	N	N
I790198	500	<1	N	N	<10	30	7	15	N	<50	20	N	N
I790332	200	N	N	N	<10	10	100	5	N	N	10	N	N
I790355	100	N	N	N	N	N	5	N	N	N	N	N	N
I790379	100	N	N	N	N	N	100	<5	N	N	<10	N	N
I790406	200	N	N	N	N	N	15	N	N	N	<10	N	N
I790429	70	N	N	N	N	N	50	N	N	N	<10	N	N
I790450	N	N	N	N	N	N	N	N	N	N	N	N	N
I790472	<20	N	N	N	N	N	N	N	N	N	N	N	N
I790505	30	N	N	N	N	N	150	N	N	N	10	N	N
I790530	N	N	N	N	N	N	N	N	N	N	N	N	N
I790549	100	N	N	N	N	N	7	N	N	N	20	N	N
I790573	100	N	N	N	N	N	50	N	N	N	<10	N	N
I790593	150	N	N	N	<10	20	20	7	N	N	20	30	N
I790622	200	N	N	N	10	15	15	10	N	N	15	10	N
I790653	50	N	N	N	N	10	10	7	N	N	<10	N	N
I790677	50	N	N	N	N	N	10	N	N	N	N	N	N
I790700	300	1.5	N	N	20	200	70	70	N	<50	15	10	<20
I790743	100	N	N	N	N	N	20	N	N	N	N	N	N
I790765	30	N	N	N	N	N	10	N	N	N	N	<5	N
I790805	50	N	N	N	N	N	7	N	N	N	N	N	N
I790855	<20	N	N	N	N	N	10	N	N	N	N	N	N
I791404	500	N	N	N	N	N	N	N	N	N	<10	N	N
I791553	500	3	N	N	<10	70	300	50	N	50	200	<5	<20
I791574	200	1.5	N	N	<10	15	7,000	15	N	N	150	10	N
I791595	200	1	N	N	<10	15	200	70	N	N	300	10	N
I791612	300	1.5	N	N	N	15	50	15	N	N	150	N	N
I791632	300	N	N	N	N	N	200	<5	N	N	<10	<5	N
I791650	30	<1	N	N	N	N	2,000	30	N	N	50	7	N
I791670	500	<1	N	N	N	50	500	70	N	N	70	N	N
I791686	700	1	N	N	N	<10	300	30	N	N	30	N	N
I791696	500	1	N	N	N	<10	100	70	N	N	50	N	N

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 179, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
1790128	5	N	N	N	N	N	N	30	N	N	N	70	<.05	5
1790154	50	10	N	7	N	N	N	100	N	<10	N	100	.07	5
1790198	30	N	N	<5	N	<100	N	150	N	<10	N	70	<.05	5
1790332	10	N	N	N	N	N	N	70	N	N	N	500	<.05	6
1790355	<5	N	N	N	N	N	N	15	N	N	N	50	<.05	6
1790379	10	N	N	N	N	N	N	20	N	N	1,000	100	<.05	6
1790406	15	N	N	N	N	N	N	10	N	N	<200	700	<.05	6
1790429	70	N	N	N	N	N	N	20	150	N	N	150	<.05	6
1790450	<5	N	N	N	N	N	N	N	30	N	N	N	<.05	6
1790472	N	N	N	N	N	N	N	N	N	N	N	N	<.05	6
1790505	15	N	N	N	N	N	N	<10	100	N	<200	N	--	6
1790530	N	N	N	N	N	N	N	N	N	N	N	N	<.05	6
1790549	7	N	N	N	N	N	N	10	N	N	<200	<10	<.05	6
1790573	15	N	N	N	N	100	N	15	N	N	N	30	.08	6
1790593	30	N	N	N	N	N	N	30	700	N	<200	50	.06	7
1790622	30	N	N	N	N	<100	N	50	50	N	300	70	.05	7
1790653	10	N	N	N	N	N	N	30	N	N	500	50	--	7
1790677	N	N	N	N	N	N	N	<10	N	N	N	30	--	7
1790700	100	10	N	7	N	<100	N	150	N	10	N	200	--	7
1790743	N	N	N	N	N	700	N	100	N	N	N	30	--	7
1790765	15	N	N	N	N	N	N	10	N	N	N	<10	<.05	7
1790805	5	N	N	N	N	N	N	<10	N	N	N	10	<.05	7
1790855	7	N	N	N	N	N	N	10	N	N	1,000	10	<.05	7
1791404	N	N	N	N	N	N	N	<10	N	N	N	200	<.05	22
1791553	15	<10	N	10	N	N	N	200	N	<10	N	200	.1	22
1791574	30	15	N	<5	N	N	N	70	N	N	3,000	100	.06	25
1791595	50	30	N	<5	N	N	N	100	N	N	N	200	.1	25
1791612	10	N	N	<5	N	N	N	150	N	N	N	150	.11	25
1791632	20	20	N	N	N	N	N	50	N	N	N	150	--	25
1791650	<5	20	N	<5	N	N	N	<10	N	N	N	200	.29	25
1791670	10	20	N	<5	N	N	N	30	N	N	N	70	.2	25
1791686	7	20	N	N	N	N	N	15	N	N	N	100	.32	26
1791696	5	50	N	<5	N	N	N	10	N	N	N	150	.34	26

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 180, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I800165	37 53 44	89 54 15	.05	.2	.03	N	N	.03	N	N	N	N
I800276	37 53 44	89 54 15	N	.2	.03	N	N	.05	N	N	N	N
I800299	37 53 44	89 54 15	<.05	.5	.2	N	N	.1	N	N	N	<10
I800320	37 53 44	89 54 15	<.05	.15	.05	<.2	N	.05	N	N	N	N
I800341	37 53 44	89 54 15	.2	1	.3	.3	N	.1	N	N	N	<10
I800364	37 53 44	89 54 15	.15	.2	.05	N	N	.05	N	N	N	N
I800389	37 53 44	89 54 15	.3	.5	.1	N	N	.07	N	N	N	<10
I800411	37 53 44	89 54 15	.07	<.05	<.02	N	N	.005	N	N	N	<10
I800441	37 53 44	89 54 15	.07	.3	.05	.3	N	.03	N	N	N	<10
I800465	37 53 44	89 54 15	.1	.2	.03	<.2	N	.015	N	N	N	N
I800493	37 53 44	89 54 15	<.05	.07	<.02	N	N	.01	N	N	N	N
I800518	37 53 44	89 54 15	.07	1.5	.03	.7	N	.03	N	N	N	N
I800548	37 53 44	89 54 15	.15	20	.1	N	N	.02	1	N	N	<10
I800586	37 53 44	89 54 15	.5	.7	.05	N	N	.02	N	N	N	10
I800621	37 53 44	89 54 15	.2	.15	.03	1	N	.02	N	N	N	N
I800661	37 53 44	89 54 15	.2	.1	.02	N	N	.015	N	N	N	10
I800688	37 53 44	89 54 15	.5	.15	.02	N	N	.01	N	N	N	<10
I800710	37 53 44	89 54 15	.3	.3	.07	1	N	.03	N	N	N	N
I800742	37 53 44	89 54 15	.7	.5	.1	N	N	.02	N	N	N	<10
I800800	37 53 44	89 54 15	1.5	1	.03	N	N	.03	N	N	N	10
I800828	37 53 44	89 54 15	.2	.5	.02	N	N	.02	N	N	N	10
I800859	37 53 44	89 54 15	1.5	.5	.2	N	N	.005	N	N	N	15
I800880	37 53 44	89 54 15	.1	.7	.02	N	N	.01	N	N	N	10
I800900	37 53 44	89 54 15	.05	.7	.1	N	N	.03	N	N	N	15
I800925	37 53 44	89 54 15	<.05	2	1	.3	N	.15	N	N	N	15
I800956	37 53 44	89 54 15	.05	.7	.2	N	N	.07	N	N	N	20
I800979	37 53 44	89 54 15	<.05	.7	.3	<.2	N	.07	N	N	N	10
I801001	37 53 44	89 54 15	.07	.07	<.02	N	N	.003	N	N	N	15
I801051	37 53 44	89 54 15	N	.05	<.02	N	N	.003	N	N	N	10
I801070	37 53 44	89 54 15	.05	.1	.02	N	N	.007	N	N	N	20
I801090	37 53 44	89 54 15	<.05	<.05	<.02	N	N	.003	N	N	N	30
I801120	37 53 44	89 54 15	.05	.1	.1	N	N	.02	N	N	N	20
I801143	37 53 44	89 54 15	.1	.15	.15	N	N	.03	N	N	N	30
I801162	37 53 44	89 54 15	<.05	.1	.1	N	N	.015	N	N	N	10
I801184	37 53 44	89 54 15	.07	.2	.15	N	N	.02	N	N	N	15
I801205	37 53 44	89 54 15	.05	1.5	1.5	.2	N	.2	N	N	N	30
I801223	37 53 44	89 54 15	<.05	1.5	2	.2	N	.5	N	N	N	30
I801245	37 53 44	89 54 15	N	1.5	2	.5	N	.3	N	N	N	20
I801281	37 53 44	89 54 15	.05	1.5	1.5	1	N	.3	N	N	N	30
I801304	37 53 44	89 54 15	N	1.5	1	1	N	.3	N	N	N	20
I801325	37 53 44	89 54 15	.05	2	1	1.5	N	.5	N	N	N	30
I801359	37 53 44	89 54 15	N	.7	.03	.2	N	.07	N	N	N	N
I801510	37 53 44	89 54 15	<.05	10	.7	.7	N	.2	N	N	N	20
I801540	37 53 44	89 54 15	.3	3	.3	1.5	N	.1	N	N	N	15
I801560	37 53 44	89 54 15	.15	1.5	.02	N	N	.03	N	N	N	20
I801597	37 53 44	89 54 15	.1	1	.7	<.2	N	.05	N	N	N	30
I801623	37 53 44	89 54 15	.05	2	1	<.2	N	.07	N	N	N	50
I801650	37 53 44	89 54 15	.05	1.5	1	N	N	.07	N	N	N	30
I801671	37 53 44	89 54 15	.5	1	.5	N	N	.05	N	N	N	15
I801692	37 53 44	89 54 15	<.05	.7	.3	N	N	.03	N	N	N	15
I801721	37 53 44	89 54 15	.07	3	1.5	N	N	.1	N	N	N	30
I801756	37 53 44	89 54 15	.05	.5	.05	N	N	.02	N	N	N	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 180, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I800165	50	N	N	N	N	N	15	N	N	N	N	N	N
I800276	200	N	N	N	N	10	5	N	N	N	N	N	N
I800299	150	N	N	N	N	15	10	N	N	N	N	N	N
I800320	70	N	N	N	N	<10	5	N	N	N	N	N	N
I800341	100	N	N	N	N	10	7	<5	N	N	<10	N	N
I800364	1,000	N	N	N	N	N	N	N	N	N	N	N	N
I800389	20	N	N	N	N	N	5	N	N	N	N	N	N
I800411	N	N	N	N	N	N	N	N	N	N	N	N	N
I800441	70	N	N	N	N	N	<5	N	N	N	N	N	N
I800465	70	N	N	N	N	N	15	N	N	N	N	N	N
I800493	30	N	N	N	N	<10	N	N	N	N	N	N	N
I800518	200	N	N	N	N	N	10	N	N	N	<10	N	N
I800548	<20	N	N	N	N	N	15	N	N	N	<10	7	N
I800586	20	N	N	N	N	N	7	N	N	N	N	N	N
I800621	300	N	N	N	N	N	N	N	N	N	N	N	N
I800661	N	N	N	N	N	N	5	N	N	N	N	N	N
I800688	30	N	N	N	N	N	N	N	N	N	N	N	N
I800710	200	N	N	N	N	N	N	N	N	N	<10	N	N
I800742	20	N	N	N	N	N	<5	N	N	N	N	N	N
I800800	<20	N	N	N	N	N	5	N	N	N	N	N	N
I800828	20	N	N	N	N	N	7	N	N	N	N	N	N
I800859	50	N	N	N	N	N	<5	N	N	N	N	N	N
I800880	N	N	N	N	N	N	<5	N	N	N	N	N	N
I800900	20	N	N	N	N	N	<5	N	N	N	N	N	N
I800925	200	N	N	N	N	15	10	<5	N	N	10	N	N
I800956	70	N	N	N	N	N	5	N	N	N	<10	N	N
I800979	50	N	N	N	N	N	5	N	N	N	<10	N	N
I801001	N	N	N	N	N	N	N	N	N	N	N	N	N
I801051	N	N	N	N	N	N	N	N	N	N	N	N	N
I801070	N	N	N	N	N	N	N	N	N	N	N	N	N
I801090	N	N	N	N	N	N	N	N	N	N	N	N	N
I801120	<20	N	N	N	N	N	N	N	N	N	N	N	N
I801143	30	N	N	N	N	N	N	N	N	N	N	N	N
I801162	N	N	N	N	N	N	N	N	N	N	N	N	N
I801184	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I801205	200	N	N	N	10	20	5	10	N	N	30	N	N
I801223	300	<1	N	N	30	70	100	15	N	N	15	N	<20
I801245	500	<1	N	N	15	50	50	30	N	N	15	N	N
I801281	300	<1	N	N	N	30	<5	20	N	N	15	N	N
I801304	300	N	N	N	N	30	30	30	N	N	15	N	N
I801325	300	N	N	N	30	70	200	15	N	N	50	N	N
I801359	100	N	N	N	N	N	<5	N	N	N	N	N	N
I801510	150	<1	N	N	<10	20	30	50	N	N	50	5	N
I801540	1,000	N	N	N	<10	<10	20	7	N	N	100	<5	N
I801560	50	N	N	N	N	N	<5	N	N	N	10	N	N
I801597	<20	<1	N	N	N	N	<5	5	N	N	<10	N	N
I801623	20	1	N	N	N	<10	<5	7	N	N	10	N	N
I801650	100	N	N	N	N	N	5	10	N	N	<10	N	N
I801671	200	N	N	N	N	N	5	N	N	N	<10	N	N
I801692	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I801721	30	N	N	N	N	N	15	30	N	N	30	<5	N
I801756	30	N	N	N	N	N	<5	N	N	N	N	N	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 180, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I800165	<5	N	N	N	N	N	N	N	N	N	N	50	<.05	6
I800276	<5	N	N	N	N	N	N	N	N	N	N	100	<.05	6
I800299	5	N	N	N	N	N	N	20	N	N	N	200	<.05	6
I800320	<5	N	N	N	N	N	N	<10	N	N	N	150	<.05	6
I800341	15	15	N	N	N	N	N	15	N	N	300	100	<.05	6
I800364	5	N	N	N	N	N	N	10	N	N	N	50	<.05	6
I800389	5	N	N	N	N	N	N	15	N	N	500	50	.59	6
I800411	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	6
I800441	<5	N	N	N	N	N	N	<10	N	N	N	30	<.05	6
I800465	<5	15,000	200	N	50	N	N	N	N	N	N	<10	<.05	6
I800493	5	100	N	N	N	N	N	N	N	N	<200	N	<.05	6
I800518	7	5,000	<100	N	<10	N	N	N	N	N	N	30	<.05	7
I800548	15	1,000	N	N	N	N	N	10	N	N	N	10	<.05	7
I800586	5	<10	N	N	N	N	N	<10	N	N	200	10	<.05	7
I800621	<5	N	N	N	N	N	N	N	N	N	200	10	<.05	7
I800661	<5	<10	N	N	N	N	N	N	N	N	<200	N	<.05	7
I800688	<5	<10	N	N	N	N	N	N	N	N	N	N	<.05	7
I800710	<5	N	N	N	N	N	N	<10	N	N	N	15	<.05	7
I800742	<5	N	N	N	<10	N	N	<10	N	N	N	20	<.05	7
I800800	15	N	N	N	N	N	N	15	N	N	700	<10	<.05	7
I800828	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I800859	<5	<10	N	N	N	N	N	N	N	N	<200	N	<.05	7
I800880	30	N	N	N	N	N	N	N	N	N	300	<10	<.05	7
I800900	<5	<10	N	N	N	N	N	20	N	N	<200	<10	<.05	7
I800925	10	<10	N	<5	N	N	N	70	N	N	N	30	.06	7
I800956	<5	N	N	N	N	N	N	50	N	N	N	15	<.05	7
I800979	5	N	N	N	N	N	N	30	N	N	N	20	<.05	7
I801001	5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I801051	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I801070	5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I801090	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I801120	7	N	N	N	N	N	N	<10	N	N	N	N	<.05	7
I801143	7	N	N	N	N	N	N	10	N	N	N	<10	<.05	7
I801162	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	7
I801184	5	10	N	N	N	N	N	<10	N	N	N	N	<.05	7
I801205	30	<10	N	5	N	N	N	50	N	N	N	50	.05	15
I801223	30	10	N	7	N	N	N	70	N	<10	N	70	.07	15
I801245	20	<10	N	5	N	N	N	50	N	N	N	70	.08	15
I801281	5	N	N	<5	N	N	N	30	N	N	N	70	.07	15
I801304	5	N	N	<5	N	N	N	50	N	N	N	70	.05	15
I801325	50	15	N	<5	N	N	N	70	N	N	N	70	.04	15
I801359	N	N	N	N	N	N	N	<10	N	N	N	30	<.01	15
I801510	15	20	N	<5	N	N	N	50	N	N	<200	30	.11	25
I801540	7	15	N	N	N	<100	N	20	N	N	N	50	.02	25
I801560	<5	N	N	N	N	N	N	<10	N	N	<200	20	<.01	25
I801597	N	<10	N	N	N	N	N	10	N	N	N	20	.16	25
I801623	<5	10	N	N	N	N	N	15	N	N	N	30	.27	25
I801650	<5	10	N	N	N	N	N	10	N	N	N	30	.14	26
I801671	N	N	N	N	N	N	N	<10	N	N	N	10	.05	26
I801692	N	N	N	N	N	N	N	N	N	N	N	15	.08	26
I801721	<5	20	N	N	N	N	N	15	N	N	N	70	.35	26
I801756	N	N	N	N	N	N	N	N	N	N	N	15	.06	26

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 181, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I810135	37 22 38	89 20 2	.15	2	.7	.5	N	.5	N	N	N	50
I810155	37 22 38	89 20 2	.1	3	.7	.3	N	.5	N	N	N	70
I810175	37 22 38	89 20 2	.3	5	.5	.2	N	.5	N	N	N	70
I810200	37 22 38	89 20 2	1	10	.15	N	N	.07	N	N	N	20
I810230	37 22 38	89 20 2	5	15	2	<.2	N	.1	N	N	N	20
I810251	37 22 38	89 20 2	1	10	.3	<.2	N	.15	N	N	N	50
I810280	37 22 38	89 20 2	.7	15	.3	<.2	N	.2	N	N	N	50
I810318	37 22 38	89 20 2	7	2	5	N	N	.03	N	N	N	10
I810340	37 22 38	89 20 2	.5	7	1	<.2	N	.3	N	N	N	70
I810360	37 22 38	89 20 2	.15	5	.5	<.2	N	.2	N	N	N	50
I810387	37 22 38	89 20 2	.1	3	.2	<.2	N	.1	N	N	N	30
I810410	37 22 38	89 20 2	.1	2	.2	N	N	.15	N	N	N	30
I810435	37 22 38	89 20 2	.05	5	.3	N	N	.2	N	N	N	20
I810458	37 22 38	89 20 2	.7	10	.2	N	N	.15	N	N	N	20
I810485	37 22 38	89 20 2	.15	5	.1	N	N	.1	N	N	N	30
I810525	37 22 38	89 20 2	.2	5	.3	<.2	N	.3	N	N	N	30
I810550	37 22 38	89 20 2	1	2	.5	.2	N	.2	N	N	N	20
I810585	37 22 38	89 20 2	.15	3	.2	<.2	N	.15	N	N	N	15
I810615	37 22 38	89 20 2	.2	1.5	.1	N	N	.05	N	N	N	<10
I810642	37 22 38	89 20 2	.15	1	.1	N	N	.07	N	N	N	10
I810690	37 22 38	89 20 2	2	2	.5	<.2	N	.2	N	N	N	30
I810710	37 22 38	89 20 2	.05	.5	.1	N	N	.05	N	N	N	50
I810754	37 22 38	89 20 2	1.5	5	1	.3	N	.3	N	N	N	50
I810775	37 22 38	89 20 2	.15	2	.7	1	N	.5	N	N	N	50
I810814	37 22 38	89 20 2	.2	3	.7	1	N	.3	N	N	N	30
I810845	37 22 38	89 20 2	.5	5	.5	N	N	.2	N	N	N	50
I810870	37 22 38	89 20 2	.3	2	.7	<.2	N	.2	N	N	N	50
I810895	37 22 38	89 20 2	.2	5	1.5	<.2	N	.5	N	N	N	70
I810930	37 22 38	89 20 2	20	.7	3	N	N	.07	N	N	N	20
I810965	37 22 38	89 20 2	.2	5	1	.2	N	.3	N	N	N	50
I810990	37 22 38	89 20 2	.05	3	.3	N	N	.2	N	N	N	70
I811015	37 22 38	89 20 2	.15	5	.3	<.2	N	.15	<.5	N	N	50
I811035	37 22 38	89 20 2	.2	7	.2	.3	N	.2	N	N	N	30
I811063	37 22 38	89 20 2	.15	5	.5	<.2	N	.3	N	N	N	50
I811091	37 22 38	89 20 2	.5	3	.3	<.2	N	.3	N	N	N	30
I811119	37 22 38	89 20 2	.2	2	1	.2	N	.7	N	N	N	50
I811148	37 22 38	89 20 2	<.05	2	.7	.2	N	.5	N	N	N	50
I811180	37 22 38	89 20 2	.05	1.5	.5	<.2	N	.5	N	N	N	50
I811229	37 22 38	89 20 2	<.05	1	.7	<.2	N	.2	N	N	N	50
I811250	37 22 38	89 20 2	<.05	1.5	.7	<.2	N	.3	N	N	N	30
I811273	37 22 38	89 20 2	.07	1.5	.7	<.2	N	.3	N	N	N	100
I811305	37 22 38	89 20 2	.05	3	1	.3	N	.3	N	N	N	100
I811326	37 22 38	89 20 2	.05	2	.5	.2	N	.3	N	N	N	50
I811355	37 22 38	89 20 2	.15	2	.7	<.2	N	.5	N	N	N	70
I811385	37 22 38	89 20 2	.1	7	1	<.2	N	.5	N	N	N	100
I811418	37 22 38	89 20 2	.1	5	1	<.2	N	.5	N	N	N	100
I811445	37 22 38	89 20 2	.1	5	.5	N	N	.3	N	N	N	100
I811476	37 22 38	89 20 2	N	.7	.05	N	N	.05	N	N	N	10
I811490	37 22 38	89 20 2	N	.2	.02	N	N	.03	N	N	N	<10
I811500	37 22 38	89 20 2	<.05	10	1	N	N	.5	<.5	N	N	200

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I81, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I810135	200	1.5	N	N	N	20	50	30	N	N	150	N	N
I810155	200	1.5	N	N	<10	20	20	20	N	N	150	N	N
I810175	300	2	N	N	<10	15	70	30	N	<50	100	5	N
I810200	100	N	N	N	<10	70	50	10	N	N	150	7	N
I810230	70	1	N	N	15	10	50	15	N	N	700	10	N
I810251	150	2	N	N	<10	10	100	15	N	N	100	20	N
I810280	700	<1	N	N	10	30	100	20	N	N	50	15	<20
I810318	30	N	N	N	N	N	10	N	N	N	200	N	N
I810340	200	<1	N	N	10	70	30	50	N	N	70	5	N
I810360	100	<1	N	N	<10	20	20	30	N	N	50	N	N
I810387	100	N	N	N	N	<10	15	10	N	N	20	N	N
I810410	<20	N	N	N	N	N	10	5	N	N	30	N	N
I810435	20	N	N	N	N	<10	15	20	N	N	30	<5	N
I810458	150	<1	N	N	<10	15	30	30	N	N	70	10	N
I810485	70	N	N	N	N	<10	10	<5	N	N	20	N	N
I810525	150	N	N	N	<10	20	30	30	N	N	50	N	N
I810550	150	N	N	N	N	20	20	20	N	N	30	N	N
I810585	50	N	N	N	<10	<10	10	<5	N	N	20	N	N
I810615	30	N	N	N	N	N	10	<5	N	N	15	N	N
I810642	50	N	N	N	N	N	15	N	N	N	10	N	N
I810690	100	<1	N	N	N	20	20	15	N	N	30	N	N
I810710	20	N	N	N	N	N	7	N	N	N	<10	N	N
I810754	200	<1	N	N	<10	30	100	50	N	N	200	5	N
I810775	200	<1	N	N	<10	20	30	20	N	N	30	<5	N
I810814	200	N	N	N	<10	30	30	20	N	N	30	<5	N
I810845	150	<1	N	N	<10	15	70	10	N	N	150	7	N
I810870	100	N	N	N	<10	20	30	20	N	N	50	N	N
I810895	200	<1	N	N	10	150	50	30	N	N	70	<5	N
I810930	200	N	N	N	N	<10	5	N	N	N	20	N	N
I810965	500	N	N	N	10	70	100	30	N	N	70	10	N
I810990	200	N	N	N	N	15	100	10	N	N	50	5	N
I811015	2,000	N	N	N	N	<10	50	5	N	N	100	7	N
I811035	5,000	N	N	N	<10	10	100	15	N	N	100	20	N
I811063	1,000	N	N	N	<10	1,500	70	10	N	N	300	15	N
I811091	3,000	N	N	N	<10	1,000	200	10	N	N	150	5	N
I811119	1,500	N	N	N	<10	100	70	30	N	N	30	<5	N
I811148	1,000	N	N	N	N	100	150	10	N	N	50	N	N
I811180	500	N	N	N	N	30	50	10	N	N	30	N	N
I811229	200	N	N	N	N	30	15	15	N	N	15	N	N
I811250	200	N	N	N	N	50	100	20	N	N	20	<5	N
I811273	200	N	N	N	N	30	50	15	N	N	15	5	N
I811305	200	N	N	N	10	70	70	30	N	N	50	10	N
I811326	200	N	N	N	10	50	70	30	N	N	20	7	N
I811355	150	N	N	N	10	50	50	50	N	N	70	5	N
I811385	300	N	N	N	30	70	100	70	N	N	100	10	N
I811418	150	<1	N	N	15	70	50	50	N	N	50	5	N
I811445	150	N	N	N	15	30	30	20	N	N	20	7	N
I811476	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I811490	N	N	N	N	N	N	5	N	N	N	N	N	N
I811500	30	1.5	N	N	10	100	200	20	N	<50	150	10	N

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I81, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I810135	7	<10	N	<5	N	N	N	70	N	N	N	70	.06	22
I810155	10	N	N	5	N	N	N	70	N	N	N	100	.06	22
I810175	15	<10	N	5	N	N	N	70	N	<10	N	70	.16	22
I810200	20	<10	N	N	N	N	N	10	150	N	<200	200	<.05	25
I810230	70	30	N	N	N	N	N	20	70	10	<200	50	.08	25
I810251	200	20	N	N	N	N	N	30	100	N	<200	70	.09	25
I810280	50	15	N	<5	N	N	N	50	1,000	N	N	50	<.05	25
I810318	5	<10	N	N	N	N	N	<10	N	N	N	<10	<.05	25
I810340	15	15	N	<5	N	N	N	30	N	N	N	50	.11	25
I810360	10	<10	N	N	N	N	N	30	N	N	N	30	.1	25
I810387	10	10	N	N	N	N	N	<10	N	N	N	20	.09	26
I810410	<5	N	N	N	N	N	N	10	N	N	N	15	.07	26
I810435	7	15	N	N	N	N	N	20	N	N	N	30	.11	26
I810458	20	10	N	N	N	N	N	20	N	N	N	30	.1	26
I810485	10	N	N	N	N	N	N	10	50	N	N	20	.05	26
I810525	15	20	N	<5	N	N	N	20	N	N	N	50	.15	26
I810550	10	<10	N	N	N	N	N	20	N	N	N	30	.13	26
I810585	30	N	N	N	N	N	N	15	50	N	N	50	<.05	26
I810615	5	N	N	N	N	N	N	<10	N	N	N	10	<.05	26
I810642	<5	N	N	N	N	N	N	10	70	N	N	20	<.05	26
I810690	10	1,000	N	<5	N	N	N	50	N	N	N	30	.34	26
I810710	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	26
I810754	15	10	N	<5	N	N	N	50	N	N	N	30	.19	26
I810775	10	N	N	<5	N	N	N	50	N	N	N	300	.14	26
I810814	20	<10	N	N	N	N	N	50	200	N	N	150	.18	26
I810845	30	<10	N	N	N	N	N	30	20	N	500	70	.25	26
I810870	10	N	N	N	N	N	N	50	N	N	N	20	.13	26
I810895	50	10	N	<5	N	<100	N	100	N	N	N	50	.24	26
I810930	<5	<10	N	N	N	>5,000	N	15	N	N	N	10	.13	26
I810965	20	15	N	<5	N	>5,000	N	70	N	N	N	20	.23	26
I810990	15	<10	N	N	N	3,000	N	70	N	N	N	20	.13	26
I811015	20	N	N	N	N	500	N	30	N	N	N	30	.1	26
I811035	50	20	N	N	N	700	N	30	N	N	<200	70	.18	30
I811063	50	15	N	N	N	5,000	N	50	N	N	N	200	.15	30
I811091	20	10	N	N	N	>5,000	N	30	N	N	N	300	.46	30
I811119	20	20	N	5	N	>5,000	N	100	N	N	N	300	.22	30
I811148	20	10	N	<5	N	>5,000	N	100	50	N	N	200	.18	30
I811180	15	N	N	<5	N	1,000	N	70	30	N	N	200	.18	30
I811229	7	N	N	N	N	150	N	50	N	N	N	100	.18	30
I811250	15	15	N	<5	N	N	N	100	N	N	N	150	.12	30
I811273	15	N	N	<5	N	N	N	50	N	N	N	150	.08	31
I811305	20	N	N	<5	N	N	N	70	N	N	N	100	.09	31
I811326	15	N	N	<5	N	N	N	50	N	N	N	70	.11	31
I811355	15	10	N	<5	N	N	N	70	N	N	N	70	.11	31
I811385	70	20	N	<5	N	N	N	70	N	N	N	150	.09	31
I811418	30	15	N	<5	N	N	N	50	N	N	N	150	.09	31
I811445	20	<10	N	<5	N	200	N	30	N	N	N	100	.07	31
I811476	N	N	N	N	N	N	N	<10	N	N	N	150	<.05	32
I811490	N	N	N	N	N	N	N	<10	N	N	N	100	<.05	32
I811500	150	30	N	5	N	100	N	100	N	<10	N	700	.11	43

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 182, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
1820444	37 21 29	89 24 26	<.05	3	1.5	1.5	N	.3	N	N	N	70
1820477	37 21 29	89 24 26	.05	5	1.5	1.5	N	.5	N	N	N	70
1820494	37 21 29	89 24 26	.07	.3	.03	N	N	.02	N	N	N	<10
1820512	37 21 29	89 24 26	.1	.5	.05	N	N	.03	N	N	N	<10
1820532	37 21 29	89 24 26	.15	2	.7	1.5	N	.15	N	N	N	20
1820557	37 21 29	89 24 26	.07	2	1.5	1.5	N	.3	N	N	N	30
1820588	37 21 29	89 24 26	.1	10	1	1	N	.2	N	N	N	30
1820608	37 21 29	89 24 26	.2	7	1	1	N	.2	N	N	N	20
1820630	37 21 29	89 24 26	.05	5	1.5	1	N	.15	N	N	N	50
1820651	37 21 29	89 24 26	<.05	1.5	.1	N	N	.03	N	N	N	10
1820675	37 21 29	89 24 26	.07	2	.3	<.2	N	.15	N	N	N	15
1820704	37 21 29	89 24 26	.3	1.5	.5	<.2	N	.15	N	N	N	15
1820731	37 21 29	89 24 26	.07	5	.1	<.2	N	.07	N	N	N	10
1820751	37 21 29	89 24 26	.1	5	.1	N	N	.05	N	N	N	10
1820772	37 21 29	89 24 26	.15	1.5	.05	N	N	.03	N	N	N	<10
1820789	37 21 29	89 24 26	.1	5	.5	.5	N	.5	N	N	N	70
1820815	37 21 29	89 24 26	.05	2	.5	.7	N	.3	1.5	N	N	15
1820833	37 21 29	89 24 26	.07	5	1	.7	N	.2	N	N	N	15
1820861	37 21 29	89 24 26	.2	2	.5	<.2	N	.1	N	N	N	20
1820886	37 21 29	89 24 26	.1	1.5	1.5	.2	N	.1	N	N	N	10
1820918	37 21 29	89 24 26	.07	1	1	<.2	N	.1	N	N	N	20
1820946	37 21 29	89 24 26	.05	1.5	.7	<.2	N	.1	N	N	N	15
1820969	37 21 29	89 24 26	.3	2	1	1	N	.15	N	N	N	30
1820990	37 21 29	89 24 26	.2	5	1.5	.5	N	.2	N	N	N	20
1821012	37 21 29	89 24 26	.1	3	2	.3	N	.15	N	N	N	15
1821029	37 21 29	89 24 26	<.05	5	3	.2	N	.2	N	N	N	50
1821056	37 21 29	89 24 26	<.05	7	3	.3	N	.2	N	N	N	50
1821078	37 21 29	89 24 26	<.05	5	3	.2	N	.2	N	N	N	50
1821102	37 21 29	89 24 26	.15	3	2	.2	N	.1	N	N	N	50
1821125	37 21 29	89 24 26	.05	1.5	1	.3	N	.1	N	N	N	30
1821145	37 21 29	89 24 26	.07	5	5	.3	N	.3	N	N	N	50
1821172	37 21 29	89 24 26	.05	5	3	.3	N	.3	N	N	N	30
1821190	37 21 29	89 24 26	.15	7	2	.3	N	.5	N	N	N	70
1821208	37 21 29	89 24 26	.3	5	2	.3	N	.2	N	N	N	30
1821231	37 21 29	89 24 26	10	5	5	.5	N	.1	N	N	N	20
1821253	37 21 29	89 24 26	.5	7	1.5	.7	N	.15	N	N	N	50
1821283	37 21 29	89 24 26	.2	10	1	.5	N	.1	N	N	N	15
1821300	37 21 29	89 24 26	.15	10	1.5	.7	N	.15	N	N	N	20
1821325	37 21 29	89 24 26	.1	2	.7	1.5	N	.2	N	N	N	20
1821343	37 21 29	89 24 26	10	1.5	7	.5	N	.15	N	N	N	15
1821371	37 21 29	89 24 26	.2	1.5	1.5	<.2	N	.2	N	N	N	30
1821394	37 21 29	89 24 26	<.05	1.5	2	.2	N	.2	N	N	N	20
1821417	37 21 29	89 24 26	<.05	1	1	<.2	N	.15	N	N	N	20
1821437	37 21 29	89 24 26	<.05	1	1	<.2	N	.1	N	N	N	10
1821458	37 21 29	89 24 26	N	1.5	1.5	<.2	N	.2	N	N	N	30
1821479	37 21 29	89 24 26	<.05	2	3	.3	N	.3	N	N	N	70
1821500	37 21 29	89 24 26	N	2	1.5	.2	N	.3	N	N	N	50
1821525	37 21 29	89 24 26	N	1.5	1	.2	N	.2	N	N	N	30

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I82, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I820444	300	1	N	N	10	30	15	50	N	N	70	N	<20
I820477	500	1	N	N	10	50	30	70	N	N	100	<5	<20
I820494	20	N	N	N	N	N	N	N	N	N	N	N	N
I820512	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I820532	500	N	N	N	N	15	20	15	N	N	30	N	N
I820557	500	<1	N	N	10	20	15	30	N	N	20	<5	<20
I820588	300	1	N	N	<10	10	70	20	N	N	200	7	<20
I820608	200	<1	N	N	N	15	30	20	N	N	200	7	<20
I820630	300	<1	N	N	<10	100	20	70	N	N	15	N	N
I820651	20	N	N	N	N	N	5	N	N	N	<10	N	N
I820675	200	N	N	N	N	10	15	20	N	N	10	<5	N
I820704	700	N	N	N	N	<10	10	5	N	N	10	N	N
I820731	300	N	N	N	N	N	10	N	N	N	30	N	N
I820751	70	N	N	N	N	N	7	N	N	N	50	N	N
I820772	30	N	N	N	N	N	7	N	N	N	10	N	N
I820789	300	1.5	N	N	10	100	50	30	N	<50	70	5	<20
I820815	200	<1	N	N	<10	100	30	50	N	N	50	5	N
I820833	200	N	N	N	<10	70	70	70	N	N	70	<5	N
I820861	100	N	N	N	N	10	15	10	N	N	20	N	N
I820886	1,000	N	N	N	N	<10	10	30	N	N	<10	N	N
I820918	1,500	N	N	N	N	N	7	20	N	N	<10	N	N
I820946	200	N	N	N	N	N	10	7	N	N	<10	N	N
I820969	500	N	N	N	N	15	20	10	N	N	70	N	N
I820990	300	N	N	N	<10	30	30	30	N	N	50	<5	N
I821012	200	N	N	N	10	50	30	30	N	N	30	<5	N
I821029	500	N	N	N	10	100	30	70	N	N	50	5	N
I821056	500	N	N	N	10	100	30	50	N	N	30	5	N
I821078	200	N	N	N	<10	70	30	70	N	N	30	<5	N
I821102	100	N	N	N	N	15	10	20	N	N	20	N	N
I821125	100	N	N	N	N	15	10	15	N	N	10	N	N
I821145	300	<1	N	N	10	150	30	100	N	N	100	<5	N
I821172	200	N	N	N	10	70	30	70	N	N	50	5	N
I821190	2,000	<1	N	N	10	100	50	50	N	N	70	7	<20
I821208	5,000	N	N	N	<10	50	30	30	N	N	70	5	N
I821231	1,000	N	N	N	<10	30	20	20	N	N	50	<5	N
I821253	1,500	N	N	N	10	30	50	20	N	N	100	7	N
I821283	1,500	N	N	N	<10	20	30	20	N	N	50	7	N
I821300	2,000	N	N	N	<10	50	30	30	N	N	70	7	N
I821325	1,000	N	N	N	N	20	20	20	N	N	70	N	<20
I821343	5,000	N	N	N	<10	30	15	15	N	N	20	<5	N
I821371	5,000	N	N	N	<10	20	50	10	N	N	50	N	N
I821394	1,000	N	N	N	<10	50	20	15	N	N	15	N	N
I821417	300	N	N	N	N	10	20	7	N	N	<10	N	N
I821437	300	N	N	N	N	10	5	7	N	N	10	N	N
I821458	1,500	N	N	N	<10	30	30	20	N	N	30	N	N
I821479	300	N	N	N	10	100	30	70	N	N	20	5	N
I821500	300	N	N	N	10	70	50	30	N	N	50	15	N
I821525	200	N	N	N	10	50	30	50	N	N	20	10	N

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 182, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
1820444	7	<10	N	5	N	N	N	70	N	N	N	100	.09	22
1820477	15	15	N	7	N	N	N	100	N	N	N	100	.13	22
1820494	N	N	N	N	N	N	N	<10	N	N	N	N	.01	25
1820512	N	N	N	N	N	N	N	<10	N	N	N	10	.01	25
1820532	7	<10	N	<5	50	N	N	30	N	N	<200	150	.02	25
1820557	10	<10	N	<5	N	N	N	50	N	<10	N	70	.06	25
1820588	7	30	N	<5	N	N	N	30	N	<10	500	150	.05	25
1820608	5	1,000	N	<5	N	N	N	20	N	N	<200	70	.11	25
1820630	10	10	N	<5	N	N	N	20	N	N	N	30	.17	25
1820651	<5	N	N	N	N	N	N	<10	N	N	N	10	.04	25
1820675	5	<10	N	N	N	N	N	15	N	N	N	20	.08	25
1820704	5	150	N	N	N	N	N	15	N	N	N	20	.06	26
1820731	<5	N	N	N	N	N	N	10	N	N	N	15	.05	26
1820751	<5	<10	N	N	N	N	N	<10	N	N	N	<10	.03	26
1820772	<5	N	N	N	N	N	N	<10	N	N	N	<10	.05	26
1820789	50	20	N	10	N	300	N	100	N	10	N	100	.05	26
1820815	20	30	N	7	N	150	N	70	N	<10	N	70	.04	26
1820833	20	20	N	<5	N	<100	N	50	N	N	<200	50	.17	26
1820861	5	300	N	N	N	N	N	20	N	N	N	20	.15	26
1820886	<5	10	N	<5	N	N	N	<10	N	<10	N	70	.31	26
1820918	<5	N	N	N	N	N	N	10	N	N	N	30	.22	26
1820946	<5	150	N	N	N	N	N	10	N	N	N	30	.18	26
1820969	7	15	N	<5	N	N	N	30	N	N	N	100	.19	26
1820990	15	10	N	<5	N	N	N	30	N	N	N	30	.55	26
1821012	15	15	N	<5	N	N	N	50	N	N	N	20	.39	26
1821029	15	10	N	<5	N	N	N	70	N	N	N	30	.39	26
1821056	20	<10	N	<5	N	N	N	100	N	N	N	30	.37	26
1821078	15	10	N	<5	N	N	N	70	N	N	N	30	.35	26
1821102	10	N	N	N	N	200	N	50	N	N	N	15	.75	26
1821125	7	N	N	N	N	500	N	20	N	N	N	10	.43	26
1821145	30	15	N	5	N	2,000	N	70	N	N	N	30	.29	26
1821172	20	10	N	<5	N	1,500	N	50	N	N	N	50	.31	26
1821190	20	15	N	7	N	>5,000	N	100	N	N	N	70	.33	26
1821208	15	15	N	<5	N	>5,000	N	50	N	N	N	20	.63	26
1821231	15	10	N	<5	N	>5,000	N	20	N	N	N	10	.55	26
1821253	15	15	N	<5	N	>5,000	N	50	N	N	200	30	.51	26
1821283	15	15	N	N	N	>5,000	N	30	N	N	<200	20	.37	26
1821300	20	20	N	<5	N	>5,000	N	50	N	N	N	150	.31	26
1821325	5	30	N	<5	N	3,000	N	50	N	N	N	100	.09	26
1821343	7	15	N	N	N	>5,000	N	20	N	N	N	100	1.43	26
1821371	10	15	N	<5	N	>5,000	N	30	N	N	N	200	.21	30
1821394	10	<10	N	<5	N	5,000	N	50	N	N	N	150	.21	30
1821417	5	70	N	N	N	700	N	30	N	N	N	150	.15	30
1821437	5	30	N	N	N	1,000	N	20	N	N	N	70	.19	30
1821458	10	N	N	<5	N	5,000	N	50	N	N	N	200	.14	30
1821479	15	30	N	5	N	N	N	50	N	N	N	100	.18	30
1821500	15	15	N	<5	N	N	N	70	N	N	N	100	.14	31
1821525	10	15	N	N	N	N	N	50	N	N	N	70	.11	31

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 183, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
1830470	37 2 17	89 19 2	N	.7	N	N	N	.015
1830490	37 2 17	89 19 2	<.05	.5	<.02	N	N	.015
1830510	37 2 17	89 19 2	N	2	<.02	N	N	.015
1830530	37 2 17	89 19 2	.07	.7	.02	N	N	.02
1830550	37 2 17	89 19 2	<.05	3	<.02	N	N	.015
1830570	37 2 17	89 19 2	.07	1	.1	N	N	.05
1830590	37 2 17	89 19 2	.1	1.5	.3	1	N	.1
1830610	37 2 17	89 19 2	.1	1.5	.07	N	N	.1
1830630	37 2 17	89 19 2	.3	1	.1	N	N	.15
1830650	37 2 17	89 19 2	.15	.7	.05	.2	N	.05
1830675	37 2 17	89 19 2	.1	.3	.03	<.2	N	.02
1830695	37 2 17	89 19 2	.1	1	.03	<.2	N	.03
1830715	37 2 17	89 19 2	.2	1	.05	<.2	N	.05
1830735	37 2 17	89 19 2	.2	5	1	.3	N	.2
1830755	37 2 17	89 19 2	1	5	1.5	1	N	.3
1830780	37 2 17	89 19 2	<.05	3	1.5	.2	N	.2
1830800	37 2 17	89 19 2	.3	5	1.5	.7	N	.2
1830820	37 2 17	89 19 2	.07	3	1.5	.7	N	.2
1830840	37 2 17	89 19 2	.1	2	.5	1	N	.07
1830870	37 2 17	89 19 2	.07	1	.02	N	N	.015
1830900	37 2 17	89 19 2	.1	3	2	.2	N	.15
1830920	37 2 17	89 19 2	.05	7	3	.2	N	.3
1830945	37 2 17	89 19 2	.07	7	2	1	N	.2
1830965	37 2 17	89 19 2	<.05	2	.3	.3	N	.1
1830985	37 2 17	89 19 2	1.5	7	.5	.7	N	.07
1831005	37 2 17	89 19 2	.15	5	3	.5	N	.5
1831025	37 2 17	89 19 2	.07	5	3	.5	N	.5
1831045	37 2 17	89 19 2	.3	5	1.5	.3	N	.2
1831065	37 2 17	89 19 2	<.05	5	1.5	.2	N	.2
1831085	37 2 17	89 19 2	1.5	3	1.5	.7	N	.15
1831105	37 2 17	89 19 2	.1	10	.2	N	N	.1
1831125	37 2 17	89 19 2	N	15	.2	N	N	.07
1831145	37 2 17	89 19 2	.15	15	.3	N	N	.15
1831165	37 2 17	89 19 2	<.05	1.5	.2	N	N	.15
1831185	37 2 17	89 19 2	<.05	1.5	.7	<.2	N	.15
1831205	37 2 17	89 19 2	.07	2	2	<.2	N	.2
1831225	37 2 17	89 19 2	N	1.5	3	<.2	N	.2
1831245	37 2 17	89 19 2	N	1.5	3	.2	N	.2
1831265	37 2 17	89 19 2	N	.7	.5	N	N	.07
1831285	37 2 17	89 19 2	N	1	1	N	N	.1
1831305	37 2 17	89 19 2	<.05	1.5	1	<.2	N	.1
1831325	37 2 17	89 19 2	<.05	2	2	.5	N	.15
1831335	37 2 17	89 19 2	.07	2	3	.7	N	.15
1831355	37 2 17	89 19 2	.05	3	2	.3	N	.2
1831385	37 2 17	89 19 2	.05	2	2	.5	N	.15
1831400	37 2 17	89 19 2	<.05	3	2	.3	N	.2
1831425	37 2 17	89 19 2	.05	5	2	<.2	N	.3
1831445	37 2 17	89 19 2	<.05	5	2	.2	N	.3
1831470	37 2 17	89 19 2	N	2	1.5	<.2	N	.2
1831625	37 2 17	89 19 2	N	.2	.02	N	N	.01
1831645	37 2 17	89 19 2	N	.3	.02	N	N	.007
1831665	37 2 17	89 19 2	<.05	.5	.2	N	N	.02
1831685	37 2 17	89 19 2	<.05	.5	.1	N	N	.015
1831705	37 2 17	89 19 2	N	1	.1	N	N	.05
1831725	37 2 17	89 19 2	N	.7	.02	N	N	.01
1831745	37 2 17	89 19 2	N	.5	.03	N	N	.015
1831765	37 2 17	89 19 2	.07	2	.15	N	N	.07
1831785	37 2 17	89 19 2	N	1	.07	N	N	.02
1831794	37 2 17	89 19 2	N	7	.1	N	N	.05
1831799	37 2 17	89 19 2	.15	10	.5	N	N	.1

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 183, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
1830470	N	N	N	N	<20	N	N	N	N	N	N
1830490	N	N	N	N	<20	N	N	N	N	N	N
1830510	N	N	N	N	<20	N	N	N	N	N	N
1830530	N	N	N	10	20	N	N	N	N	N	<5
1830550	N	N	N	<10	<20	N	N	N	N	N	200
1830570	N	N	N	<10	200	N	N	N	N	<10	200
1830590	N	N	N	10	300	N	N	N	N	<10	30
1830610	N	N	N	<10	100	N	N	N	N	N	10
1830630	N	N	N	10	50	N	N	N	N	N	15
1830650	N	N	N	<10	70	N	N	N	N	N	200
1830675	N	N	N	<10	50	N	N	N	N	N	20
1830695	N	N	N	10	70	N	N	N	N	N	5
1830715	N	N	N	N	70	N	N	N	N	N	7
1830735	N	N	N	30	200	N	N	N	<10	15	20
1830755	N	N	N	15	150	N	N	N	10	30	30
1830780	N	N	N	20	700	N	N	N	15	70	70
1830800	<.5	N	N	30	700	N	N	N	10	50	50
1830820	N	N	N	30	300	N	N	N	10	50	20
1830840	N	N	N	N	5,000	N	N	N	N	<10	5
1830870	N	N	N	N	1,000	N	N	N	N	N	N
1830900	N	N	N	50	3,000	N	N	N	<10	20	20
1830920	N	N	N	30	300	N	N	N	15	100	30
1830945	N	N	N	30	3,000	N	N	N	10	70	20
1830965	N	N	N	20	700	N	N	N	N	<10	15
1830985	N	N	N	<10	1,500	N	N	N	<10	100	20
1831005	N	N	N	70	1,000	<1	N	N	15	100	50
1831025	N	N	N	30	700	N	N	N	20	150	50
1831045	N	N	N	50	1,500	N	N	N	10	70	50
1831065	N	N	N	30	1,000	N	N	N	10	70	50
1831085	N	N	N	20	5,000	N	N	N	10	70	30
1831105	5	700	N	10	>5,000	N	N	20	500	N	500
1831125	.7	<200	N	<10	>5,000	N	N	N	100	N	150
1831145	.7	<200	N	<10	>5,000	N	N	N	100	<10	150
1831165	N	N	N	15	2,000	N	N	N	<10	N	15
1831185	N	N	N	15	3,000	N	N	N	10	<10	15
1831205	N	N	N	20	1,000	N	N	N	<10	50	50
1831225	N	N	N	30	1,000	N	N	N	<10	30	70
1831245	N	N	N	20	500	N	N	N	<10	50	30
1831265	N	N	N	<10	200	N	N	N	N	N	7
1831285	N	N	N	15	500	N	N	N	N	10	15
1831305	N	N	N	20	200	N	N	N	<10	<10	20
1831325	N	N	N	50	300	N	N	N	<10	50	15
1831335	<.5	N	N	70	300	N	N	N	10	20	100
1831355	N	N	N	30	3,000	N	N	N	15	30	100
1831385	N	N	N	50	>5,000	<1	N	N	10	10	15
1831400	N	N	N	50	5,000	N	N	N	10	70	30
1831425	N	N	N	100	3,000	N	N	N	10	70	20
1831445	N	N	N	70	1,000	N	N	N	10	100	20
1831470	N	N	N	50	300	N	N	N	10	30	15
1831625	N	N	N	N	20	N	N	N	N	N	7
1831645	N	N	N	N	50	N	N	N	N	N	7
1831665	N	N	N	<10	30	N	N	N	N	N	<5
1831685	N	N	N	N	2,000	N	N	N	N	N	15
1831705	N	N	N	N	500	N	N	N	N	N	15
1831725	N	N	N	N	150	N	N	N	N	N	<5
1831745	N	N	N	N	300	N	N	N	N	N	<5
1831765	N	<200	N	N	5,000	N	N	N	50	N	30
1831785	N	N	N	N	50	N	N	N	N	N	5
1831794	.7	200	N	<10	>5,000	N	N	N	150	N	50
1831799	3	300	N	15	>5,000	N	N	30	100	10	200

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I83, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
I830470	N	N	N	N	N	N	N	N	N	N
I830490	N	N	N	N	N	N	<5	N	N	N
I830510	N	N	N	N	N	N	<5	N	N	N
I830530	N	N	N	N	N	N	10	N	N	N
I830550	N	N	N	N	N	N	5	N	N	N
I830570	N	N	N	<10	N	N	7	N	N	N
I830590	<5	N	N	15	N	N	7	N	N	N
I830610	N	N	N	50	N	N	7	50	N	N
I830630	N	N	N	<10	N	N	<5	N	N	N
I830650	N	N	N	10	N	N	N	N	N	N
I830675	N	N	N	<10	N	N	5	N	N	N
I830695	N	N	N	15	N	N	7	N	N	N
I830715	N	N	N	<10	N	N	10	N	N	N
I830735	15	N	N	150	<5	N	30	15	N	N
I830755	50	N	N	20	<5	N	20	15	N	<5
I830780	50	N	N	30	5	N	50	15	N	<5
I830800	50	N	N	50	5	N	30	150	N	<5
I830820	30	N	N	50	<5	N	20	30	N	N
I830840	7	N	N	10	N	N	10	150	N	N
I830870	N	N	N	N	N	N	<5	N	N	N
I830900	70	N	N	<10	<5	N	15	5,000	N	N
I830920	100	N	N	70	5	N	30	10	N	<5
I830945	70	N	N	20	<5	N	30	10	N	<5
I830965	5	N	N	15	N	N	7	N	N	N
I830985	10	N	N	10	5	N	15	100	N	N
I831005	70	N	N	50	<5	N	20	15	N	<5
I831025	100	N	N	50	5	N	70	100	N	<5
I831045	50	N	N	20	5	N	30	20	N	<5
I831065	50	N	N	30	10	N	70	15	N	<5
I831085	30	N	N	100	7	N	50	30	N	<5
I831105	15	N	N	10	20	N	5,000	5,000	N	N
I831125	20	N	N	<10	10	N	1,000	200	N	N
I831145	15	N	N	10	15	N	1,000	150	N	N
I831165	<5	N	N	<10	N	N	50	<10	N	N
I831185	5	N	N	<10	N	N	100	<10	N	N
I831205	20	N	N	20	N	N	30	50	N	N
I831225	30	N	N	10	5	N	20	10	N	N
I831245	30	N	N	15	5	N	15	15	N	<5
I831265	N	N	N	<10	N	N	5	N	N	N
I831285	5	N	N	<10	N	N	10	N	N	N
I831305	15	N	N	<10	N	N	10	15	N	N
I831325	70	N	N	<10	N	N	10	<10	N	<5
I831335	100	N	N	10	7	<20	15	20	N	<5
I831355	70	N	N	10	5	<20	30	15	N	<5
I831385	70	N	N	N	N	N	20	20	N	<5
I831400	70	N	N	15	<5	N	20	15	N	<5
I831425	50	N	N	15	<5	N	20	15	N	<5
I831445	70	N	N	10	<5	N	15	10	N	<5
I831470	50	N	N	N	<5	N	10	15	N	N
I831625	N	N	N	N	N	N	N	N	N	N
I831645	N	N	N	N	N	N	N	N	N	N
I831665	N	N	N	N	N	N	5	N	N	N
I831685	N	N	N	N	N	N	5	N	N	N
I831705	N	N	N	N	N	N	10	N	N	N
I831725	N	N	N	N	N	N	5	N	N	N
I831745	N	N	N	N	N	N	10	<10	N	N
I831765	N	N	N	N	5	N	100	10	N	N
I831785	N	N	N	N	5	N	7	N	N	N
I831794	<5	N	N	N	10	N	1,500	70	N	N
I831799	20	N	N	30	20	N	1,000	5,000	N	N

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 183, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I830470	N	N	N	N	N	N	N	<10	<.01	26
I830490	N	N	N	N	N	N	N	10	<.01	26
I830510	N	N	N	N	N	N	N	<10	<.01	26
I830530	N	N	N	N	N	N	N	20	<.01	26
I830550	N	N	N	<10	N	N	N	N	.01	26
I830570	N	N	N	<10	N	N	N	<10	.02	26
I830590	N	N	N	10	N	N	N	50	.03	26
I830610	N	N	N	<10	N	N	N	50	.04	26
I830630	N	N	N	<10	N	N	<200	70	.11	26
I830650	N	N	N	<10	N	N	N	50	.06	26
I830675	N	N	N	N	N	N	N	10	.03	26
I830695	N	N	N	N	N	N	N	<10	.03	26
I830715	N	N	N	N	N	N	N	15	.05	26
I830735	N	N	N	30	N	N	N	50	.24	26
I830755	N	N	N	50	N	N	N	30	.18	26
I830780	N	N	N	70	N	N	<200	30	.2	30,31
I830800	N	N	N	70	N	N	500	50	.55	30,31
I830820	N	N	N	50	N	N	N	20	.24	30,31
I830840	N	N	N	<10	N	N	N	100	.03	30,31
I830870	N	N	N	N	N	N	N	10	.01	30,31
I830900	N	N	N	20	N	N	N	50	.24	30,31
I830920	N	N	N	70	N	N	<200	30	.21	30,31
I830945	N	N	N	70	N	N	N	30	.15	30,31
I830965	N	N	N	30	N	N	N	20	.04	30,31
I830985	N	N	N	15	N	N	N	20	.05	30,31
I831005	N	N	N	70	N	N	N	50	.38	30,31
I831025	N	N	N	100	N	N	N	50	.27	30,31
I831045	N	N	N	70	N	N	N	50	.18	30,31
I831065	N	N	N	70	N	N	<200	30	.24	30,31
I831085	N	150	N	50	N	N	N	50	.16	30,31
I831105	N	150	N	<10	N	N	>10,000	70	.03	30,31
I831125	N	100	N	<10	N	N	2,000	50	.05	30,31
I831145	N	100	N	10	N	N	3,000	70	.16	30,31
I831165	N	N	N	15	N	N	200	200	.06	30,31
I831185	N	700	N	20	N	N	<200	150	.09	30,31
I831205	N	<100	N	50	N	N	N	100	.36	30,31
I831225	N	<100	N	30	N	N	N	100	.27	30,31
I831245	N	N	N	50	N	N	N	200	.22	30,31
I831265	N	<100	N	<10	N	N	N	50	.07	30,31
I831285	N	N	N	15	N	N	N	70	.1	30,31
I831305	N	N	N	30	N	N	N	50	.1	30,31
I831325	N	N	N	50	N	N	N	30	.22	30,31
I831335	N	N	N	50	N	N	N	70	.18	30,31
I831355	N	N	N	70	N	N	N	70	.15	30,31
I831385	N	100	N	30	N	N	200	50	.18	30,31
I831400	N	N	N	50	N	N	N	150	.1	30,31
I831425	N	N	N	50	N	N	N	100	.11	30,31
I831445	N	N	N	50	N	N	N	70	.13	30,31
I831470	N	N	N	30	N	N	N	70	.07	30,31
I831625	N	N	N	N	N	N	N	50	<.01	32
I831645	N	N	N	N	N	N	N	10	<.01	43
I831665	N	N	N	N	N	N	<200	15	.03	43
I831685	N	N	N	N	N	N	N	30	.01	43
I831705	N	N	N	<10	N	N	N	30	.02	43
I831725	N	N	N	N	N	N	N	30	<.01	43
I831745	N	N	N	N	N	N	<200	20	<.01	43
I831765	N	N	N	<10	N	N	300	100	.02	43
I831785	N	N	N	N	N	N	N	20	.02	43
I831794	N	200	N	<10	N	N	3,000	150	.02	43
I831799	N	<100	N	15	N	N	>10,000	100	.06	43

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I83, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I831810	37 2 17	89 19 2	N	.5	.02	N	N	.01
I831820	37 2 17	89 19 2	<.05	.5	.07	N	N	.015
I831828	37 2 17	89 19 2	N	1	.02	N	N	.007

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I831810	N	N	N	N	5,000	N	N	N	<10	N	<5
I831820	N	N	N	N	500	N	N	N	<10	N	10
I831828	N	N	N	N	200	N	N	N	N	<10	7

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s
I831810	N	N	N	N	N	N	50	N	N	N
I831820	N	N	N	N	<5	N	20	<10	N	N
I831828	N	N	N	10	N	N	15	N	N	N

Sample	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I831810	N	N	N	N	N	N	500	10	<.01	43
I831820	N	N	N	N	N	N	700	15	<.01	43
I831828	N	N	N	N	N	N	N	70	<.01	43

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I84, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I840125	37 14 19	89 26 48	<.05	1	.15	N	N	.1	N	N	N	15
I840305	37 14 19	89 26 48	2	10	.2	<.2	2	.07	N	<200	N	10
I840325	37 14 19	89 26 48	.1	20	.15	N	N	.05	<.5	<200	N	15
I840345	37 14 19	89 26 48	.3	15	.07	N	N	.03	N	<200	N	15
I840365	37 14 19	89 26 48	.15	15	.1	N	N	.07	N	200	N	20
I840385	37 14 19	89 26 48	.07	20	.1	N	N	.05	N	<200	N	20
I840405	37 14 19	89 26 48	.1	15	.05	N	N	.01	N	N	N	10
I840425	37 14 19	89 26 48	.3	10	.15	<.2	N	.1	N	N	N	20
I840445	37 14 19	89 26 48	.2	10	.7	<.2	N	.1	N	N	N	30
I840465	37 14 19	89 26 48	<.05	5	1	<.2	N	.2	N	N	N	30
I840485	37 14 19	89 26 48	.15	2	.2	N	N	.07	N	N	N	10
I840505	37 14 19	89 26 48	.05	.15	.5	N	N	.03	N	N	N	N
I840525	37 14 19	89 26 48	.07	1.5	1	N	N	.05	N	N	N	<10
I840545	37 14 19	89 26 48	.07	.7	1.5	N	N	.07	N	N	N	10
I840565	37 14 19	89 26 48	.5	.2	.3	N	N	.02	N	N	N	N
I840585	37 14 19	89 26 48	.05	20	.5	N	N	.03	.7	N	N	<10
I840605	37 14 19	89 26 48	<.05	.3	.15	N	N	.02	N	N	N	<10
I840625	37 14 19	89 26 48	.05	20	.5	N	N	.1	<.5	<200	N	10
I840645	37 14 19	89 26 48	.05	10	.7	N	N	.15	.5	N	N	15
I840665	37 14 19	89 26 48	<.05	15	.3	N	N	.07	.7	N	N	<10
I840685	37 14 19	89 26 48	N	15	.5	N	N	.03	N	N	N	10
I840705	37 14 19	89 26 48	.07	7	.3	N	N	.03	<.5	N	N	15
I840725	37 14 19	89 26 48	.05	2	.15	N	N	.03	N	N	N	10
I840745	37 14 19	89 26 48	1	10	.3	N	N	.07	N	N	N	20
I840775	37 14 19	89 26 48	.1	5	2	<.2	N	.1	N	N	N	30
I840805	37 14 19	89 26 48	.15	2	1	<.2	N	.1	<.5	N	N	30
I840835	37 14 19	89 26 48	.07	5	1	<.2	N	.1	<.5	N	N	30
I840865	37 14 19	89 26 48	<.05	3	1.5	.2	N	.3	N	N	N	30
I840895	37 14 19	89 26 48	.07	3	2	.2	N	.5	N	N	N	70
I840925	37 14 19	89 26 48	.05	10	1.5	.2	N	.2	N	N	N	30
I840955	37 14 19	89 26 48	<.05	.7	.1	N	N	.03	N	N	N	<10
I840985	37 14 19	89 26 48	<.05	2	1	<.2	N	.15	N	N	N	30
I841015	37 14 19	89 26 48	N	1.5	.7	<.2	N	.15	N	N	N	20
I841045	37 14 19	89 26 48	<.05	5	.3	<.2	N	.15	N	N	N	20
I841080	37 14 19	89 26 48	<.05	1	.5	<.2	N	.1	N	N	N	50
I841110	37 14 19	89 26 48	.05	3	1	<.2	N	.15	N	N	N	50
I841140	37 14 19	89 26 48	.05	5	1	<.2	N	.15	N	N	N	30
I841170	37 14 19	89 26 48	1.5	1.5	.5	<.2	N	.1	N	N	N	15
I841200	37 14 19	89 26 48	N	1.5	.5	.2	N	.15	N	N	N	10
I841230	37 14 19	89 26 48	N	1	.2	<.2	N	.07	N	N	N	<10
I841260	37 14 19	89 26 48	N	.7	.2	N	N	.07	N	N	N	10
I841290	37 14 19	89 26 48	N	.7	.15	N	N	.07	N	N	N	<10
I841320	37 14 19	89 26 48	N	7	.15	.3	N	.05	N	N	N	15
I841350	37 14 19	89 26 48	<.05	5	1.5	.3	N	.3	N	N	N	70
I841380	37 14 19	89 26 48	.05	10	1.5	.2	N	.2	N	N	N	50
I841410	37 14 19	89 26 48	N	7	1	.2	N	.2	N	N	N	30
I841440	37 14 19	89 26 48	<.05	7	2	.3	N	.3	N	N	N	70
I841470	37 14 19	89 26 48	.05	5	1.5	.3	N	.2	N	N	N	70
I841495	37 14 19	89 26 48	<.05	5	2	.2	N	.2	N	N	N	50
I841520	37 14 19	89 26 48	N	7	2	.2	N	.2	N	N	N	50

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I84, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I840125	70	N	N	N	N	N	<5	N	N	N	20	N	N
I840305	70	1.5	N	N	20	20	70	N	N	100	70	7	N
I840325	50	1	N.	N	20	10	70	N	N	N	150	15	N
I840345	30	<1	N	N	15	<10	70	N	N	N	70	10	N
I840365	50	1	N	N	20	10	150	N	N	N	150	15	N
I840385	50	1.5	N	N	30	10	100	N	N	N	150	15	N
I840405	<20	1	N	N	10	N	30	N	N	N	70	7	N
I840425	100	<1	N	N	10	<10	50	7	N	N	100	5	N
I840445	70	<1	N	N	15	20	50	30	N	N	70	7	N
I840465	100	N	N	N	<10	30	20	20	N	N	30	<5	N
I840485	30	N	N	N	N	N	7	<5	N	N	<10	N	N
I840505	<20	N	N	N	N	N	N	N	N	N	N	N	N
I840525	N	N	N	N	N	N	15	5	N	N	15	N	N
I840545	20	N	N	N	N	N	7	10	N	N	N	N	N
I840565	<20	N	N	N	N	N	N	N	N	N	N	N	N
I840585	N	N	N	N	<10	N	30	N	N	N	15	10	N
I840605	<20	N	N	N	N	N	N	N	N	N	N	N	N
I840625	200	N	N	N	10	<10	70	N	N	N	50	10	N
I840645	150	N	N	N	<10	10	70	7	N	N	30	5	N
I840665	30	N	N	N	10	N	50	5	N	N	20	7	N
I840685	20	N	N	N	<10	N	70	<5	N	N	<10	10	N
I840705	50	N	N	N	N	N	30	<5	N	N	10	7	N
I840725	<20	N	N	N	N	N	5	N	N	N	<10	10	N
I840745	50	<1	N	N	N	N	30	<5	N	N	30	5	N
I840775	30	<1	N	N	N	<10	30	20	N	N	<10	N	N
I840805	>5,000	N	N	N	N	<10	20	5	N	N	10	N	N
I840835	>5,000	N	N	N	N	<10	30	10	N	N	10	N	N
I840865	5,000	N	N	N	<10	50	50	50	N	N	15	<5	N
I840895	5,000	N	N	N	<10	70	30	50	N	N	15	<5	N
I840925	>5,000	N	N	N	10	100	70	50	N	N	150	5	N
I840955	200	N	N	N	N	N	7	N	N	N	N	N	N
I840985	150	N	N	N	<10	15	50	15	N	N	50	N	N
I841015	100	N	N	N	<10	15	30	5	N	N	20	N	N
I841045	700	N	N	N	<10	<10	30	<5	N	N	10	5	N
I841080	3,000	N	N	N	<10	N	10	<5	N	N	<10	N	N
I841110	5,000	<1	N	N	<10	20	30	15	N	N	10	5	N
I841140	>5,000	N	N	N	10	15	50	15	N	N	30	7	N
I841170	500	N	N	N	N	<10	30	5	N	N	10	N	N
I841200	700	N	N	N	N	20	20	10	N	N	15	<5	N
I841230	>5,000	N	N	N	N	<10	15	<5	N	N	N	N	N
I841260	2,000	N	N	N	N	N	5	5	N	N	N	N	N
I841290	700	N	N	N	N	N	30	<5	N	N	N	N	N
I841320	300	<1	N	N	N	<10	20	5	N	N	<10	<5	<20
I841350	1,500	1	N	N	<10	70	30	70	N	N	<10	5	<20
I841380	2,000	N	N	N	10	100	30	100	N	N	10	5	N
I841410	1,500	N	N	N	10	50	50	50	N	N	10	7	N
I841440	1,000	N	N	N	20	70	50	100	N	N	30	10	N
I841470	300	N	N	N	<10	70	20	70	N	N	15	5	N
I841495	300	N	N	N	10	70	30	70	N	N	20	7	N
I841520	200	<1	N	N	15	70	20	70	N	N	20	7	N

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 184, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I840125	<5	N	N	N	N	N	N	15	N	N	N	15	.01	15
I840305	50	200	N	<5	N	<100	N	20	N	50	300	<10	1.58	25
I840325	50	150	N	N	N	N	N	30	N	N	500	10	.07	25
I840345	50	100	N	N	N	N	N	20	N	20	200	<10	.33	25
I840365	70	150	N	N	N	N	N	30	N	N	700	10	.05	25
I840385	70	200	N	N	N	N	N	20	N	N	700	<10	.05	25
I840405	30	100	N	N	N	N	N	15	N	N	500	N	.06	25
I840425	30	150	N	N	N	N	N	30	N	N	200	30	.04	25
I840445	50	200	N	N	N	N	N	20	N	N	<200	30	.12	25
I840465	15	15	N	<5	N	N	N	30	N	N	N	50	.16	25,26
I840485	5	N	N	N	N	N	N	10	N	N	N	30	.02	25,26
I840505	N	N	N	N	N	N	N	N	N	N	N	10	.07	25,26
I840525	5	N	N	N	N	N	N	<10	N	N	N	20	.09	25,26
I840545	<5	N	N	N	N	N	N	15	N	N	N	30	.1	25,26
I840565	N	N	N	N	N	N	N	N	N	N	N	<10	.04	25,26
I840585	20	20	N	N	N	N	N	<10	N	N	<200	15	.06	25,26
I840605	N	N	N	N	N	N	N	N	N	N	N	10	.03	25,26
I840625	50	70	N	<5	N	N	N	20	N	N	300	15	.08	25,26
I840645	10	15	N	N	N	N	N	15	N	N	<200	20	.07	25,26
I840665	20	15	N	N	N	N	N	<10	N	N	500	10	.05	25,26
I840685	15	100	N	N	N	N	N	10	N	N	N	15	.06	25,26
I840705	10	30	N	N	N	N	N	<10	N	N	<200	20	.03	25,26
I840725	<5	N	N	N	N	N	N	<10	N	N	N	10	.02	25,26
I840745	10	50	N	N	N	N	N	30	N	N	300	20	.08	25,26
I840775	7	30	N	N	N	N	N	20	N	N	<200	30	.22	25,26
I840805	10	<10	N	N	N	300	N	20	N	N	<200	20	.07	25,26
I840835	7	20	N	N	N	<100	N	30	N	N	N	30	.08	25,26
I840865	20	15	N	<5	N	N	N	70	N	N	N	30	.18	25,26
I840895	30	10	N	<5	N	N	N	70	N	N	N	50	.22	25,26
I840925	50	10	N	<5	N	N	N	50	N	N	200	50	.25	25,26
I840955	<5	N	N	N	N	N	N	<10	N	N	N	<10	.04	25,26
I840985	15	10	N	N	N	N	N	30	N	N	N	10	.1	25,26
I841015	20	<10	N	N	N	N	N	30	N	N	N	10	.1	25,26
I841045	15	N	N	N	N	N	N	20	N	N	N	15	.1	25,26
I841080	5	N	N	N	N	N	N	15	N	N	N	10	.09	25,26
I841110	15	<10	N	<5	N	N	N	50	N	N	N	70	.18	30
I841140	30	10	N	N	N	<100	N	50	N	N	N	50	.19	30
I841170	7	N	N	N	N	N	N	20	N	N	N	70	1.78	30
I841200	10	15	N	N	N	N	N	30	N	N	<200	200	.07	30
I841230	5	N	N	N	N	N	N	10	N	N	N	70	.06	30
I841260	<5	N	N	N	N	N	N	10	N	N	N	100	.04	30
I841290	<5	N	N	N	N	N	N	<10	N	N	N	100	.04	30
I841320	5	<10	N	N	N	N	N	<10	N	N	<200	20	.05	30
I841350	20	10	N	<5	N	N	N	70	N	N	N	150	.15	31
I841380	30	15	N	5	N	N	N	70	N	N	N	200	.19	31
I841410	15	15	N	N	N	N	N	50	N	N	N	70	.13	31
I841440	30	20	N	<5	N	N	N	50	N	N	N	100	.13	31
I841470	15	15	N	<5	N	N	N	30	N	N	N	50	.13	31
I841495	15	20	N	N	N	N	N	30	N	N	N	70	.12	31
I841520	20	15	N	<5	N	N	N	30	N	N	N	50	.12	31

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I85, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I850205	37 13 23	89 26 7	.07	15	.5	.2	N	.2	N	N	N	20
I850225	37 13 23	89 26 7	.15	20	.2	N	N	.07	N	<200	N	<10
I850245	37 13 23	89 26 7	.1	20	.15	N	N	.07	N	200	N	<10
I850265	37 13 23	89 26 7	<.05	10	1	.5	N	.3	N	N	N	30
I850280	37 13 23	89 26 7	.15	7	.1	N	N	.05	N	N	N	10
I850309	37 13 23	89 26 7	<.05	10	.7	N	N	.05	N	N	N	15
I850330	37 13 23	89 26 7	.1	20	.15	N	N	.07	N	<200	N	<10
I850340	37 13 23	89 26 7	.1	20	.15	N	N	.07	N	<200	N	<10
I850360	37 13 23	89 26 7	.3	20	.3	<.2	N	.1	<.5	<200	N	10
I850385	37 13 23	89 26 7	.15	3	1.5	1.5	N	.3	N	N	N	50
I850400	37 13 23	89 26 7	.07	2	2	<.2	N	.1	N	N	N	15
I850425	37 13 23	89 26 7	.2	1.5	1	N	N	.1	N	N	N	15
I850445	37 13 23	89 26 7	.05	2	.5	N	N	.07	N	N	N	<10
I850460	37 13 23	89 26 7	.2	1.5	.1	N	N	.03	N	N	N	10
I850490	37 13 23	89 26 7	.1	1	.3	N	N	.03	N	N	N	<10
I850513	37 13 23	89 26 7	<.05	5	1	.2	N	.3	N	N	N	20
I850538	37 13 23	89 26 7	.15	5	2	N	N	.2	N	N	N	20
I850565	37 13 23	89 26 7	.2	7	1.5	<.2	N	.3	N	N	N	30
I850585	37 13 23	89 26 7	.1	5	1	.3	N	.5	N	N	N	50
I850605	37 13 23	89 26 7	.1	10	1	.7	N	.3	N	N	N	50
I850630	37 13 23	89 26 7	.05	7	.5	N	N	.1	N	N	N	20
I850650	37 13 23	89 26 7	.2	10	.7	N	N	.15	N	N	N	15
I850675	37 13 23	89 26 7	.2	10	.3	N	N	.1	N	N	N	10
I850695	37 13 23	89 26 7	.15	10	1	<.2	N	.15	<.5	N	N	15
I850745	37 13 23	89 26 7	.1	10	1.5	.5	N	.3	N	N	N	50
I850768	37 13 23	89 26 7	.1	5	3	.3	N	.15	N	N	N	30
I850790	37 13 23	89 26 7	5	10	2	.5	N	.3	N	N	N	50
I850813	37 13 23	89 26 7	.5	10	2	.7	N	.5	1.5	N	N	70
I850835	37 13 23	89 26 7	5	10	1.5	.5	N	.1	N	N	N	30
I850888	37 13 23	89 26 7	.07	5	3	.2	N	.3	N	N	N	100
I850907	37 13 23	89 26 7	.15	7	2	.2	N	.3	N	N	N	50
I850926	37 13 23	89 26 7	.15	10	1	.3	N	.2	N	N	N	30
I850949	37 13 23	89 26 7	.15	10	2	1	N	.5	N	N	N	70
I850973	37 13 23	89 26 7	.05	7	3	.7	N	.5	N	N	N	70
I851001	37 13 23	89 26 7	.07	5	1	.3	N	.2	<.5	N	N	70
I851020	37 13 23	89 26 7	N	7	2	.5	N	.7	N	N	N	50

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I85, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I850205	300	1.5	N	N	10	30	70	30	N	N	100	5	<20
I850225	100	2	N	N	15	15	100	<5	N	N	70	20	N
I850245	70	2	N	N	15	15	100	<5	N	N	100	20	N
I850265	200	1	N	N	N	50	30	70	N	N	70	<5	<20
I850280	50	N	N	N	N	N	30	<5	N	N	50	5	N
I850309	30	<1	N	N	<10	<10	30	20	N	N	30	5	N
I850330	200	1.5	N	N	15	20	150	<5	N	N	500	10	N
I850340	200	2	N	N	15	30	100	30	N	N	500	10	N
I850360	300	1	N	N	10	30	100	30	N	<50	150	10	N
I850385	500	<1	N	N	<10	70	20	50	N	N	70	N	<20
I850400	30	N	N	N	N	N	5	20	N	N	10	N	N
I850425	30	N	N	N	N	N	7	5	N	N	<10	N	N
I850445	N	N	N	N	N	N	10	N	N	N	10	N	N
I850460	<20	N	N	N	N	N	5	N	N	N	10	N	N
I850490	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I850513	100	N	N	N	<10	20	50	15	N	N	30	<5	N
I850538	70	N	N	N	N	<10	20	20	N	N	15	N	<20
I850565	300	N	N	N	<10	50	30	50	N	N	50	N	<20
I850585	1,000	N	N	N	N	50	30	20	N	N	70	N	N
I850605	3,000	N	N	N	<10	20	30	15	N	N	100	<5	N
I850630	>5,000	N	N	N	N	N	20	<5	N	N	15	<5	N
I850650	>5,000	N	N	N	N	N	20	5	N	N	15	5	N
I850675	5,000	N	N	N	N	N	20	<5	N	N	10	5	N
I850695	>5,000	N	N	N	<10	10	50	10	N	N	50	7	N
I850745	>5,000	N	N	N	15	100	50	70	N	N	100	5	N
I850768	>5,000	N	N	N	10	30	30	100	N	N	20	5	N
I850790	>5,000	N	N	N	10	30	30	50	N	N	70	7	N
I850813	>5,000	N	N	N	<10	30	150	50	N	N	70	7	<20
I850835	>5,000	N	N	N	<10	<10	30	20	N	N	100	7	N
I850888	500	<1	N	N	15	70	50	70	N	N	150	N	N
I850907	700	N	N	N	15	100	50	100	N	N	70	5	N
I850926	300	N	N	N	10	70	70	70	N	N	150	10	N
I850949	700	N	N	N	15	100	100	100	N	N	200	15	<20
I850973	500	N	N	N	15	150	70	100	N	N	150	7	N
I851001	300	N	N	N	10	30	70	20	N	N	150	7	N
I851020	300	N	N	N	15	300	100	70	N	N	100	5	<20

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 185, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I850205	50	200	N	5	N	N	N	70	N	N	700	70	.15	25
I850225	70	300	N	<5	N	N	N	50	N	N	2,000	50	.09	25
I850245	70	300	N	<5	N	N	N	70	N	N	2,000	30	.13	25
I850265	20	1,500	N	7	15	N	N	100	N	N	200	100	.12	25
I850280	15	30	N	N	N	N	N	20	N	N	500	15	.02	25
I850309	15	150	N	N	N	N	N	20	N	N	300	20	.12	25
I850330	70	200	N	<5	N	N	N	50	N	N	1,500	30	.06	25
I850340	70	150	N	<5	N	N	N	70	N	N	1,500	30	.08	25
I850360	50	2,000	300	N	300	150	N	50	N	N	700	70	.1	25
I850385	10	15	N	<5	N	N	N	70	N	N	N	150	.1	25
I850400	N	10	N	N	N	N	N	15	N	N	N	50	.2	25
I850425	<5	<10	N	N	N	N	N	10	N	N	N	20	.12	26
I850445	<5	1,000	100	N	70	N	N	<10	N	N	N	20	.11	26
I850460	<5	70	N	N	N	N	N	N	N	N	300	<10	.02	26
I850490	N	N	N	N	N	N	N	N	N	N	N	10	.04	26
I850513	10	15	N	N	N	N	N	30	N	N	N	30	.16	26
I850538	5	150	N	N	100	N	N	20	N	N	N	50	.19	26
I850565	10	30	N	<5	N	N	N	50	N	N	N	50	.29	26
I850585	15	1,500	<100	<5	100	N	N	50	N	N	200	100	.19	26
I850605	15	3,000	N	<5	20	N	N	30	N	N	N	100	.11	26
I850630	7	50	N	N	N	N	N	10	N	N	N	50	.09	26
I850650	7	150	N	N	N	N	N	<10	N	N	N	70	.17	26
I850675	10	200	N	N	10	N	N	<10	N	N	<200	50	.09	26
I850695	15	500	N	N	30	<100	N	15	N	N	<200	100	.12	26
I850745	30	20	N	5	N	N	N	50	N	N	N	100	.22	26
I850768	20	150	N	<5	<10	N	N	30	N	N	N	70	.27	26
I850790	30	1,000	N	5	700	<100	N	50	N	10	N	200	.21	26
I850813	30	1,500	300	5	1,000	200	N	30	N	10	N	200	.25	26
I850835	10	100	N	N	15	N	N	20	N	N	500	30	.07	26
I850888	20	15	N	5	N	N	N	50	N	N	N	70	.25	26
I850907	20	10	N	5	N	N	N	100	N	N	N	70	.29	26
I850926	30	1,500	N	<5	70	N	N	70	N	N	N	30	.38	26
I850949	50	20	N	5	N	N	N	100	N	N	N	100	.38	26
I850973	30	1,000	N	7	100	N	N	100	N	N	N	70	.38	26
I851001	20	700	<100	<5	200	N	N	50	<20	N	<200	50	.17	31
I851020	50	3,000	150	7	500	N	N	100	N	N	N	70	.34	31

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I86, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I860360	37 6 37	89 22 5	.07	7	.15	.7	N	.1	N	N	N	10
I860380	37 6 37	89 22 5	.2	5	.2	1	N	.1	N	N	N	10
I860400	37 6 37	89 22 5	.3	1.5	.3	1	N	.1	N	N	N	<10
I860426	37 6 37	89 22 5	.2	7	.15	1.5	N	.15	N	N	N	15
I860445	37 6 37	89 22 5	.05	3	1	N	N	.15	N	N	N	15
I860468	37 6 37	89 22 5	.3	1.5	3	N	N	.3	N	N	N	30
I860487	37 6 37	89 22 5	.2	1.5	1	N	N	.07	N	N	N	10
I860504	37 6 37	89 22 5	.15	1.5	3	N	N	.1	N	N	N	20
I860527	37 6 37	89 22 5	.1	2	.2	N	N	.02	N	N	N	15
I860550	37 6 37	89 22 5	.07	2	.5	N	N	.07	N	N	N	15
I860574	37 6 37	89 22 5	.1	5	1.5	N	N	.1	N	N	N	15
I860595	37 6 37	89 22 5	.3	2	3	<.2	N	.2	N	N	N	30
I860618	37 6 37	89 22 5	.5	3	1.5	<.2	N	.3	N	N	N	50
I860635	37 6 37	89 22 5	.05	.5	.1	N	N	.02	N	N	N	<10
I860655	37 6 37	89 22 5	.15	1	1	<.2	N	.07	N	N	N	30
I860680	37 6 37	89 22 5	.1	.7	.05	N	N	.015	N	N	N	10
I860696	37 6 37	89 22 5	.07	2	1.5	.2	N	.15	N	N	N	30
I860715	37 6 37	89 22 5	.2	2	.7	<.2	N	.1	N	N	N	15
I860732	37 6 37	89 22 5	3	15	1.5	.3	N	.15	N	N	N	10
I860753	37 6 37	89 22 5	.15	10	2	.5	N	.3	N	N	N	70
I860783	37 6 37	89 22 5	.05	7	2	.5	N	.3	N	N	N	20
I860817	37 6 37	89 22 5	.2	7	3	.3	N	.5	<.5	N	N	70
I860835	37 6 37	89 22 5	.15	7	3	.3	N	.3	N	N	N	70
I860854	37 6 37	89 22 5	.15	20	1.5	N	N	.15	1	<200	N	30
I860876	37 6 37	89 22 5	.15	>20	.2	N	N	.02	N	200	N	N
I860894	37 6 37	89 22 5	<.05	20	.15	N	N	.01	<.5	<200	N	<10
I860917	37 6 37	89 22 5	.3	20	.5	N	N	.015	<.5	200	N	<10
I860936	37 6 37	89 22 5	<.05	7	2	.2	N	.2	N	N	N	30
I860965	37 6 37	89 22 5	.07	15	2	<.2	N	.2	N	N	N	50
I860992	37 6 37	89 22 5	.2	20	1.5	.5	N	.3	<.5	N	N	20
I861011	37 6 37	89 22 5	.2	20	1.5	.5	N	.2	N	N	N	30
I861025	37 6 37	89 22 5	20	5	5	.3	N	.07	N	N	N	30

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I86, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I860360	500	N	N	N	10	N	30	7	N	N	70	5	N
I860380	700	N	N	N	<10	N	20	7	N	N	30	N	N
I860400	500	N	N	N	N	<10	<5	5	N	N	70	N	N
I860426	700	N	N	N	10	N	15	7	N	N	20	5	N
I860445	30	N	N	N	<10	N	10	10	N	N	10	N	N
I860468	30	N	N	N	10	N	7	7	N	N	N	N	<20
I860487	<20	N	N	N	N	N	15	5	N	N	<10	N	N
I860504	<20	N	N	N	N	N	7	30	N	N	N	N	<20
I860527	20	N	N	N	N	N	10	N	N	N	N	N	N
I860550	20	N	N	N	20	N	15	<5	N	N	<10	<5	N
I860574	20	N	N	N	N	<10	20	10	N	N	<10	N	N
I860595	70	N	N	N	N	20	20	30	N	N	15	N	N
I860618	100	N	N	N	N	20	20	20	N	N	30	N	N
I860635	<20	N	N	N	N	<10	<5	N	N	N	N	N	N
I860655	70	N	N	N	N	<10	30	<5	N	N	10	N	N
I860680	70	N	N	N	N	<10	5	N	N	N	N	N	N
I860696	100	N	N	N	N	<10	15	5	N	N	<10	N	N
I860715	70	N	N	N	N	<10	15	<5	N	N	10	N	N
I860732	300	N	N	N	N	<10	20	10	N	N	20	<5	N
I860753	300	<1	N	N	<10	30	50	70	N	N	150	5	<20
I860783	200	N	N	N	10	70	50	100	N	N	50	7	N
I860817	1,000	N	N	N	15	100	100	100	N	N	50	10	N
I860835	200	N	N	N	10	70	50	100	N	N	50	5	N
I860854	500	<1	N	N	100	15	70	50	N	N	30	30	N
I860876	300	N	N	N	70	N	50	<5	N	N	70	70	N
I860894	300	N	N	N	30	N	50	<5	N	N	30	50	N
I860917	70	N	N	N	30	N	70	<5	N	N	50	30	N
I860936	100	N	N	N	15	100	30	70	N	N	30	10	N
I860965	200	N	N	N	20	100	70	100	N	N	100	20	N
I860992	200	<1	N	N	20	50	50	50	N	N	100	50	N
I861011	300	N	N	N	50	50	50	50	N	N	70	30	N
I861025	100	N	N	N	<10	30	20	15	N	N	20	<5	N

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 186, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I860360	15	<10	N	N	N	N	N	20	500	N	<200	N	.01	25
I860380	10	N	N	N	N	N	N	15	50	N	N	N	<.01	25
I860400	5	N	N	N	N	N	N	20	N	N	N	N	<.01	25
I860426	30	<10	N	N	N	N	N	15	<20	N	200	N	.02	25
I860445	7	10	N	N	10	N	N	15	N	N	N	N	.13	25
I860468	15	<10	N	N	N	N	N	30	20	N	N	N	.17	26
I860487	7	<10	N	N	N	N	N	15	100	N	N	N	.11	26
I860504	<5	10	N	N	N	N	N	10	500	N	N	N	.21	26
I860527	5	N	N	N	N	N	N	N	200	N	N	N	.04	26
I860550	10	15	N	N	N	N	N	10	150	N	N	N	.09	26
I860574	5	50	N	N	20	N	N	15	<20	N	N	N	.13	26
I860595	7	<10	N	<5	N	N	N	50	N	N	N	N	.18	26
I860618	10	<10	N	<5	N	N	N	70	N	N	N	N	.22	26
I860635	N	N	N	N	N	N	N	N	N	N	N	N	.04	26
I860655	5	N	N	N	50	N	N	10	<20	N	<200	N	.1	26
I860680	<5	N	N	N	N	N	N	N	N	N	N	N	.02	26
I860696	7	N	N	N	N	N	N	20	N	N	N	30	.13	26
I860715	7	N	N	N	N	N	N	15	N	N	N	15	.13	26
I860732	10	15	N	N	N	N	N	<10	N	N	N	20	1.06	26
I860753	20	15	N	5	N	N	N	100	N	N	N	50	.25	26
I860783	20	10	N	<5	N	N	N	70	N	N	N	30	.28	30
I860817	50	15	N	<5	N	N	N	150	N	N	200	70	.18	30
I860835	30	15	N	<5	N	N	N	100	N	N	<200	70	.27	30
I860854	500	5,000	N	N	N	N	N	20	N	N	300	20	.22	30
I860876	200	150	N	N	N	N	N	N	N	N	1,500	N	.02	30
I860894	100	300	N	N	N	N	N	N	N	N	500	<10	.04	30
I860917	150	100	N	N	N	N	N	N	N	N	1,500	N	.04	30
I860936	30	20	N	<5	N	N	N	50	N	N	N	30	.24	30
I860965	150	200	N	<5	N	N	N	100	N	N	300	30	.24	30
I860992	100	700	N	<5	N	N	N	70	N	N	500	20	.24	30
I861011	200	500	N	<5	30	<100	N	70	N	N	200	50	.18	30
I861025	10	20	N	<5	N	<100	N	20	N	N	N	15	.14	30

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 187, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I87100	37 10 32	89 23 15	>20	1.5	3	.5	N	.2	N	N	N	10
I87110	37 10 32	89 23 15	.05	2	2	.7	N	.5	N	N	N	30
I87130	37 10 32	89 23 15	20	5	5	.7	N	.3	N	N	N	50
I87150	37 10 32	89 23 15	.07	15	1	<.2	N	.15	N	N	N	15
I87170	37 10 32	89 23 15	.07	7	1	<.2	N	.3	N	N	N	50
I87190	37 10 32	89 23 15	.05	10	1	<.2	N	.5	N	N	N	70
I87210	37 10 32	89 23 15	.7	5	2	1	N	.7	N	N	N	70
I87230	37 10 32	89 23 15	.2	7	3	1.5	N	.5	N	N	N	70
I87250	37 10 32	89 23 15	.15	3	1.5	1	N	.3	N	N	N	30
I87265	37 10 32	89 23 15	.2	5	3	1.5	N	.7	N	N	N	100
I87290	37 10 32	89 23 15	1	2	2	1.5	N	.3	N	N	N	30
I87310	37 10 32	89 23 15	.15	2	.7	1.5	N	.5	N	N	N	50
I87330	37 10 32	89 23 15	.07	2	.7	2	N	.5	N	N	N	30
I87370	37 10 32	89 23 15	.15	5	1	1.5	N	.5	N	N	N	50
I87390	37 10 32	89 23 15	1	3	1	1.5	N	.3	N	N	N	70
I87410	37 10 32	89 23 15	.7	5	2	1.5	N	.5	N	N	N	50
I87430	37 10 32	89 23 15	.2	7	1.5	.5	N	.3	N	N	N	30
I87450	37 10 32	89 23 15	.5	10	2	.7	N	.3	N	N	N	50
I87470	37 10 32	89 23 15	.05	5	1.5	.5	N	.2	N	N	N	15
I87490	37 10 32	89 23 15	.3	7	2	.5	N	.3	N	N	N	70
I87510	37 10 32	89 23 15	.15	10	2	.5	N	.3	N	N	N	50
I87530	37 10 32	89 23 15	.05	7	1.5	.2	N	.3	N	N	N	50
I87550	37 10 32	89 23 15	.3	7	1.5	1.5	N	.3	N	N	N	50
I87570	37 10 32	89 23 15	.2	7	2	.3	N	.3	N	N	N	50
I87590	37 10 32	89 23 15	<.05	10	1.5	.5	N	.2	N	N	N	15
I87610	37 10 32	89 23 15	.07	5	3	.3	N	.2	N	N	N	30
I87630	37 10 32	89 23 15	.3	2	5	N	N	.15	N	N	N	70
I87650	37 10 32	89 23 15	2	1	.7	N	N	.07	N	N	N	15
I87670	37 10 32	89 23 15	.2	5	2	N	N	.07	N	N	N	20
I87680	37 10 32	89 23 15	.3	2	3	.3	N	.3	N	N	N	50
I87700	37 10 32	89 23 15	.1	7	3	.5	N	.5	N	N	N	70
I87717	37 10 32	89 23 15	.07	2	1.5	<.2	N	.2	N	N	N	15
I87730	37 10 32	89 23 15	.2	1.5	5	<.2	N	.3	N	N	N	50
I87755	37 10 32	89 23 15	.2	2	3	<.2	N	.2	N	N	N	20
I87775	37 10 32	89 23 15	.7	3	2	<.2	N	.2	N	N	N	15
I87800	37 10 32	89 23 15	.05	3	1.5	<.2	N	.3	N	N	N	30

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 187, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I87100	200	N	N	N	N	<10	N	20	N	N	500	N	N
I87110	300	N	N	N	10	100	100	70	N	N	15	N	N
I87130	500	<1	N	N	10	30	10	30	N	<50	700	N	N
I87150	150	1	N	N	10	<10	15	50	N	N	100	<5	N
I87170	150	N	N	N	<10	15	7	30	N	N	20	N	N
I87190	300	<1	N	N	<10	20	50	20	N	N	70	N	<20
I87210	300	1.5	N	N	10	30	20	50	N	<50	200	N	<20
I87230	300	1	N	N	15	30	30	70	N	<50	200	N	<20
I87250	200	<1	N	N	10	20	20	50	N	N	150	N	N
I87265	500	2	N	N	10	50	20	100	N	<50	200	N	<20
I87290	200	N	N	N	<10	15	10	30	N	N	100	N	N
I87310	200	<1	N	N	N	<10	7	10	N	N	70	N	<20
I87330	200	N	N	N	N	10	10	20	N	N	30	N	<20
I87370	200	<1	N	N	<10	10	15	20	N	N	100	N	<20
I87390	200	<1	N	N	<10	15	20	20	N	N	150	N	<20
I87410	300	<1	N	N	10	20	20	70	N	N	150	N	<20
I87430	300	<1	N	N	20	20	30	50	N	N	500	<5	N
I87450	300	1.5	N	N	15	30	30	50	N	N	700	5	<20
I87470	200	N	N	N	20	20	20	30	N	N	700	N	N
I87490	300	1	N	N	20	20	30	30	N	N	700	<5	<20
I87510	300	1	N	N	20	30	30	50	N	N	500	<5	<20
I87530	300	1	N	N	15	30	30	50	N	N	500	N	N
I87550	300	<1	N	N	20	50	30	30	N	<50	700	N	N
I87570	200	<1	N	N	10	30	30	100	N	N	150	N	N
I87590	150	<1	N	N	<10	20	20	70	N	N	70	<5	N
I87610	100	<1	N	N	N	15	15	70	N	N	20	N	N
I87630	30	<1	N	N	N	N	10	50	N	N	10	N	N
I87650	20	N	N	N	N	N	5	N	N	N	<10	N	N
I87670	<20	N	N	N	N	N	7	20	N	N	<10	<5	N
I87680	100	N	N	N	N	30	20	50	N	N	15	N	N
I87700	200	<1	N	N	<10	70	50	70	N	N	50	N	N
I87717	50	N	N	N	N	20	30	30	N	N	20	N	N
I87730	30	1	N	N	N	<10	20	70	N	N	15	N	<20
I87755	100	N	N	N	N	20	15	50	N	N	20	N	N
I87775	100	N	N	N	N	50	15	70	N	N	15	N	N
I87800	150	N	N	N	N	30	20	30	N	N	20	N	N

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 187, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I87100	5	10	N	<5	N	<100	N	15	N	<10	N	50	.03	15
I87110	15	<10	N	<5	N	N	N	50	N	N	N	100	.08	15
I87130	15	10	N	5	N	<100	N	30	N	10	N	150	.04	15
I87150	10	100	N	N	N	N	N	30	N	N	<200	30	.03	15
I87170	10	<10	N	<5	N	N	N	30	N	N	N	50	.06	15
I87190	10	15	N	5	N	N	N	50	N	N	N	70	.06	15
I87210	15	10	N	5	N	N	N	70	N	10	N	200	.06	15
I87230	15	15	N	7	N	N	N	70	N	10	N	150	.06	22
I87250	10	10	N	<5	N	N	N	50	N	<10	N	70	.06	22
I87265	15	10	N	7	N	N	N	100	N	10	N	200	.05	22
I87290	7	10	N	N	N	N	N	50	N	10	N	200	.05	22
I87310	<5	N	N	N	N	N	N	30	N	<10	N	700	.03	22
I87330	<5	N	N	N	N	N	N	30	N	<10	N	300	.04	22
I87370	7	<10	N	N	N	N	N	50	N	<10	N	300	.05	22
I87390	7	N	N	<5	N	N	N	70	N	<10	N	200	.07	22
I87410	10	<10	N	<5	N	N	N	70	N	10	N	300	.06	22
I87430	15	15	N	5	N	N	N	50	N	N	N	100	.07	25
I87450	15	20	N	7	N	N	N	50	N	10	N	150	.07	25
I87470	10	20	N	<5	N	N	N	30	N	N	N	30	.07	25
I87490	15	15	N	7	N	N	N	50	N	10	N	100	.09	25
I87510	15	70	N	7	N	N	N	70	N	<10	N	100	.09	25
I87530	15	20	N	5	N	N	N	50	N	N	N	70	.08	25
I87550	20	30	N	7	N	N	N	70	N	10	N	70	.08	25
I87570	15	10	N	5	N	N	N	70	N	<10	N	70	.09	25
I87590	10	15	N	<5	N	N	N	50	N	<10	N	50	.1	25
I87610	5	10	N	<5	N	N	N	30	N	<10	N	50	.2	26
I87630	<5	10	N	N	N	N	N	20	N	<10	N	70	.32	26
I87650	<5	N	N	N	N	N	N	10	N	N	<200	15	.11	26
I87670	<5	<10	N	N	N	N	N	15	N	N	N	30	.29	26
I87680	10	10	N	N	N	N	N	50	N	N	N	50	1.06	26
I87700	15	20	N	<5	N	N	N	70	N	N	N	50	.26	26
I87717	5	<10	N	N	N	N	N	30	N	N	N	20	.3	26
I87730	N	15	N	<5	N	N	N	30	N	10	N	100	.42	26
I87755	5	10	N	N	N	N	N	30	N	N	N	50	.32	26
I87775	7	15	N	N	N	N	N	30	N	N	N	30	.7	26
I87800	10	10	N	N	N	N	N	50	N	N	N	30	.26	26

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I88, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I880170	37 7 18	88 28 39	.07	1.5	<.02	N	N	.005	N	N	N	15
I880195	37 7 18	88 28 39	.15	.7	.03	N	N	.015	N	N	N	50
I880215	37 7 18	88 28 39	.2	1	.03	N	N	.02	N	N	N	30
I880236	37 7 18	88 28 39	.15	.5	.02	N	N	.02	N	N	N	30
I880254	37 7 18	88 28 39	.3	1.5	.15	N	N	.05	N	N	N	50
I880273	37 7 18	88 28 39	.3	1	.3	N	N	.1	N	N	N	70
I880290	37 7 18	88 28 39	.3	1.5	.2	N	N	.1	N	N	N	50
I880310	37 7 18	88 28 39	.2	5	1	.3	N	.2	N	N	N	100
I880322	37 7 18	88 28 39	.15	5	1	.5	N	.3	.5	N	N	70
I880350	37 7 18	88 28 39	.1	5	.2	N	N	.15	N	N	N	50
I880372	37 7 18	88 28 39	.5	1.5	.5	N	N	.1	N	N	N	70
I880394	37 7 18	88 28 39	.5	1.5	.15	N	N	.05	N	N	N	70
I880410	37 7 18	88 28 39	.1	5	.1	N	N	.07	N	N	N	30
I880430	37 7 18	88 28 39	.05	2	.3	N	N	.1	N	N	N	20
I880453	37 7 18	88 28 39	.15	1	.15	N	N	.03	N	N	N	50
I880472	37 7 18	88 28 39	.3	1.5	.1	N	N	.1	N	N	N	30
I880497	37 7 18	88 28 39	.15	.5	.07	N	N	.05	N	N	N	30
I880520	37 7 18	88 28 39	.15	2	.7	.3	N	.2	N	N	N	50
I880540	37 7 18	88 28 39	<.05	1.5	.3	.3	N	.15	N	N	N	30
I880565	37 7 18	88 28 39	.5	7	.7	.2	N	.2	N	N	N	70
I880587	37 7 18	88 28 39	.1	7	1	.7	N	.3	N	N	N	70
I880612	37 7 18	88 28 39	.3	5	1	.2	N	.3	N	N	N	100
I880634	37 7 18	88 28 39	.1	2	.5	<.2	N	.2	N	N	N	50
I880653	37 7 18	88 28 39	.15	1.5	.15	N	N	.1	N	N	N	30
I880680	37 7 18	88 28 39	.2	2	.5	.2	N	.5	N	N	N	70
I880700	37 7 18	88 28 39	.15	.7	.1	N	N	.1	N	N	N	50
I880725	37 7 18	88 28 39	.15	3	.5	<.2	N	.2	<.5	N	N	100
I880726	37 7 18	88 28 39	.2	.7	.1	N	N	.07	N	N	N	70
I880750	37 7 18	88 28 39	.15	1	.2	N	N	.1	N	N	N	70
I880798	37 7 18	88 28 39	.1	1	.15	N	N	.07	N	N	N	100
I880820	37 7 18	88 28 39	<.05	.15	.02	N	N	.015	N	N	N	50
I880840	37 7 18	88 28 39	.1	.2	.07	N	N	.02	N	N	N	50
I880860	37 7 18	88 28 39	.15	.2	.1	N	N	.03	N	N	N	30
I880881	37 7 18	88 28 39	.15	.3	.1	N	N	.02	N	N	N	20
I880900	37 7 18	88 28 39	.5	.5	.5	N	N	.05	N	N	N	30
I880922	37 7 18	88 28 39	.7	.7	.5	N	N	.07	N	N	N	30
I880942	37 7 18	88 28 39	.7	.5	.5	N	N	.05	N	N	N	20
I880963	37 7 18	88 28 39	1	.7	.7	N	N	.05	N	N	N	30
I880992	37 7 18	88 28 39	.5	.5	.3	N	N	.03	N	N	N	15
I881020	37 7 18	88 28 39	1	.5	.5	N	N	.03	N	N	N	10
I881040	37 7 18	88 28 39	.5	.3	.5	N	N	.02	N	N	N	15
I881062	37 7 18	88 28 39	.3	.5	.5	N	N	.03	N	N	N	20
I881078	37 7 18	88 28 39	.2	.5	.2	N	N	.05	N	N	N	20
I881108	37 7 18	88 28 39	.3	.5	.3	<.2	N	.05	N	N	N	30
I881130	37 7 18	88 28 39	.3	.3	.15	N	N	.03	N	N	N	15
I881161	37 7 18	88 28 39	.3	.7	.3	<.2	N	.07	N	N	N	30
I881185	37 7 18	88 28 39	.5	.5	.3	<.2	N	.05	N	N	N	20
I881210	37 7 18	88 28 39	.5	.3	.2	<.2	N	.03	N	N	N	15
I881240	37 7 18	88 28 39	.07	.5	.1	<.2	N	.05	N	N	N	15
I881260	37 7 18	88 28 39	<.05	1	.15	.3	N	.1	N	N	N	30
I881285	37 7 18	88 28 39	.2	1	.2	.3	N	.15	.7	N	N	50
I881299	37 7 18	88 28 39	<.05	1	.2	.2	N	.1	<.5	N	N	30
I881335	37 7 18	88 28 39	.2	.5	.1	<.2	N	.07	<.5	N	N	20
I881382	37 7 18	88 28 39	.15	.7	.15	.2	N	.07	<.5	N	N	30
I881420	37 7 18	88 28 39	.05	1	.15	.2	N	.1	.5	N	N	30
I881438	37 7 18	88 28 39	.5	1.5	.5	.5	N	.2	.7	N	N	70
I881456	37 7 18	88 28 39	.05	1.5	.5	.7	N	.3	.5	N	N	100
I881485	37 7 18	88 28 39	.15	2	1	1	N	.5	<.5	N	N	150
I881833	37 7 18	88 28 39	<.05	1.5	.2	N	N	.07	N	N	N	30
I881850	37 7 18	88 28 39	.2	3	1	.7	N	.15	<.5	N	N	50

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I88, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I880170	N	N	N	N	N	N	<5	N	N	N	N	N	N
I880195	30	N	N	N	N	N	N	N	N	N	N	N	N
I880215	50	N	N	N	N	N	<5	N	N	N	N	<5	N
I880236	20	N	N	N	N	N	<5	N	N	N	N	N	N
I880254	50	N	N	N	N	<10	5	N	N	N	N	N	N
I880273	70	N	N	N	N	15	7	N	N	N	<10	N	N
I880290	70	N	N	N	N	10	7	N	N	N	<10	N	N
I880310	300	N	N	N	N	50	20	15	N	N	15	5	N
I880322	300	N	N	N	N	150	30	20	N	N	20	10	N
I880350	50	N	N	N	N	15	20	<5	N	N	50	5	N
I880372	30	N	N	N	N	10	15	<5	N	N	10	N	N
I880394	100	N	N	N	N	<10	5	N	N	N	10	N	N
I880410	20	N	N	N	N	10	30	<5	N	N	70	5	N
I880430	30	N	N	N	N	15	15	<5	N	N	10	<5	N
I880453	50	N	N	N	N	N	10	N	N	N	<10	N	N
I880472	50	N	N	N	N	<10	15	N	N	N	<10	N	N
I880497	20	N	N	N	N	N	7	N	N	N	N	N	N
I880520	100	N	N	N	N	30	20	10	N	N	15	5	N
I880540	200	N	N	N	N	10	10	7	N	N	10	N	N
I880565	200	<1	N	N	10	20	30	10	N	N	700	5	N
I880587	300	N	N	N	N	70	20	15	N	N	15	<5	N
I880612	2,000	N	N	N	N	30	20	10	N	N	30	<5	N
I880634	200	N	N	N	N	<10	10	<5	N	N	10	N	N
I880653	1,000	N	N	N	N	N	10	N	N	N	<10	N	N
I880680	700	N	N	N	N	10	20	<5	N	N	20	N	<20
I880700	200	N	N	N	N	N	5	N	N	N	<10	N	N
I880725	700	N	N	N	N	15	15	<5	N	N	20	N	N
I880726	30	N	N	N	N	N	5	N	N	N	10	N	N
I880750	300	N	N	N	N	<10	7	N	N	N	10	N	N
I880798	70	N	N	N	N	N	20	N	N	N	<10	N	N
I880820	<20	N	N	N	N	N	N	N	N	N	N	N	N
I880840	50	N	N	N	N	N	N	N	N	N	N	N	N
I880860	20	N	N	N	N	N	<5	N	N	N	N	N	N
I880881	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I880900	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I880922	50	N	N	N	N	N	5	N	N	N	<10	N	N
I880942	30	N	N	N	N	N	<5	N	N	N	N	N	N
I880963	50	N	N	N	N	N	<5	N	N	N	N	N	N
I880992	20	N	N	N	N	N	<5	N	N	N	N	N	N
I881020	30	N	N	N	N	N	15	N	N	N	N	N	N
I881040	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I881062	20	N	N	N	N	N	<5	N	N	N	N	N	N
I881078	30	N	N	N	N	N	<5	N	N	N	N	N	N
I881108	30	N	N	N	N	N	<5	N	N	N	N	N	N
I881130	20	N	N	N	N	N	<5	N	N	N	N	N	N
I881161	100	N	N	N	N	<10	5	N	N	N	<10	N	N
I881185	30	N	N	N	N	<10	<5	N	N	N	N	N	N
I881210	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I881240	20	N	N	N	N	N	5	N	N	N	N	N	N
I881260	50	N	N	N	N	10	7	<5	N	N	<10	N	N
I881285	300	N	N	N	N	15	15	<5	N	N	<10	N	N
I881299	70	N	N	N	N	10	10	N	N	N	N	N	N
I881335	70	N	N	N	N	N	5	N	N	N	N	N	N
I881382	5,000	N	N	N	N	<10	7	N	N	N	N	N	N
I881420	1,500	N	N	N	N	10	10	N	N	N	N	N	N
I881438	2,000	<1	N	N	N	20	30	5	N	N	<10	N	N
I881456	1,500	<1	N	N	N	30	30	7	N	N	<10	<5	N
I881485	700	1	N	N	<10	70	30	30	N	<50	15	N	N
I881833	30	N	N	N	N	N	70	N	N	N	<10	<5	N
I881850	150	1	N	N	10	20	100	15	N	N	20	10	N

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 188, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
1880170	5	10	100	N	N	N	N	N	N	N	N	N	<.01	6
1880195	7	N	N	N	N	N	N	<10	N	N	N	<10	.01	6
1880215	10	N	N	N	N	500	N	10	N	N	300	30	.04	7
1880236	7	N	N	N	N	N	N	<10	N	N	N	N	.04	7
1880254	10	N	N	N	N	N	N	10	N	N	N	30	.06	7
1880273	10	N	N	N	N	1,000	N	30	N	N	N	30	.06	7
1880290	10	N	N	N	N	3,000	N	20	N	N	<200	30	.18	7
1880310	30	15	N	<5	N	3,000	N	100	N	N	<200	50	.13	7
1880322	70	15	N	<5	N	5,000	N	100	N	N	200	70	.18	7
1880350	20	N	N	N	N	100	N	50	N	N	<200	50	.21	7
1880372	15	N	N	N	N	>5,000	N	50	N	N	<200	20	.14	7
1880394	10	N	N	N	N	2,000	N	20	N	N	200	30	.1	7
1880410	15	<10	N	N	N	N	N	20	N	N	<200	15	.06	7
1880430	15	N	N	N	N	N	N	50	N	N	N	20	.07	7
1880453	7	N	N	N	N	5,000	N	15	N	N	<200	10	.05	7
1880472	7	N	N	N	N	<100	N	20	N	N	700	10	.02	7
1880497	5	N	N	N	N	200	N	15	N	N	N	15	.04	7
1880520	15	N	N	N	N	150	N	70	N	N	N	30	.14	7
1880540	7	<10	N	N	N	N	N	50	N	N	N	30	.09	7
1880565	10	15	N	<5	N	2,000	N	70	N	N	<200	30	.24	7
1880587	20	<10	N	<5	N	700	N	150	N	N	N	30	.17	7
1880612	20	<10	N	<5	N	5,000	N	100	N	N	<200	50	.13	7
1880634	10	N	N	N	N	200	N	30	N	N	N	50	.07	7
1880653	5	N	N	N	N	>5,000	N	10	N	N	N	15	.06	7
1880680	10	N	N	<5	N	<100	N	70	N	N	<200	200	.04	7
1880700	5	N	N	N	N	N	N	10	N	N	N	20	.02	7
1880725	15	N	N	N	N	N	N	30	N	N	N	50	.1	7
1880726	5	N	N	N	N	100	N	10	N	N	N	20	.03	7
1880750	7	N	N	N	N	N	N	20	N	N	N	30	.04	7
1880798	5	N	N	N	N	N	N	15	N	N	N	20	.03	7
1880820	N	N	N	N	N	N	N	N	N	N	N	<10	.01	7
1880840	<5	N	N	N	N	N	N	N	N	N	N	<10	.01	7
1880860	<5	N	N	N	N	N	N	N	N	N	N	10	.02	7
1880881	<5	N	N	N	N	N	N	N	N	N	N	<10	.02	7
1880900	5	N	N	N	N	N	N	<10	N	N	N	10	.02	7
1880922	7	N	N	N	N	N	N	15	N	N	N	15	.03	7
1880942	5	N	N	N	N	N	N	<10	N	N	N	10	.02	7
1880963	5	N	N	N	N	150	N	10	N	N	N	10	.03	7
1880992	<5	N	N	N	N	N	N	<10	N	N	N	10	.03	7
1881020	<5	N	N	N	N	<100	N	<10	N	N	N	10	.04	7
1881040	<5	N	N	N	N	N	N	10	N	N	N	10	.03	7
1881062	5	N	N	N	N	N	N	<10	N	N	N	<10	.04	7
1881078	5	N	N	N	N	1,500	N	10	N	N	N	<10	.03	7
1881108	5	N	N	N	N	200	N	10	N	N	N	20	.04	7
1881130	<5	N	N	N	N	150	N	<10	N	N	N	10	.02	7
1881161	7	N	N	N	N	3,000	N	10	N	N	N	20	.04	7
1881185	5	N	N	N	N	<100	N	10	N	N	N	15	.06	7
1881210	<5	N	N	N	N	N	N	<10	N	N	N	10	.04	7
1881240	<5	N	N	N	N	N	N	<10	N	N	N	<10	.04	7
1881260	7	20	N	N	N	<100	N	20	N	N	N	15	.07	7
1881285	10	N	N	N	N	5,000	N	30	N	N	N	30	.07	7
1881299	7	N	N	N	N	200	N	15	N	N	N	15	.06	7
1881335	5	N	N	N	N	300	N	<10	N	N	N	10	.09	7
1881382	7	N	N	N	N	>5,000	N	10	N	N	N	10	.07	7
1881420	10	200	N	N	10	700	N	15	N	N	N	15	.05	7
1881438	30	N	N	N	N	5,000	N	50	N	N	<200	30	.09	7
1881456	50	N	N	<5	N	500	N	70	N	N	<200	50	.09	7
1881485	30	15	N	5	N	100	N	100	N	<10	<200	70	.06	7
1881833	20	150	N	N	N	N	N	50	N	N	N	15	.02	10
1881850	50	10	N	<5	N	N	N	100	N	N	<200	50	.04	10

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 188, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I881870	37 7 18	88 28 39	<.05	5	1	1	N	.2	<.5	N	N	70
I881890	37 7 18	88 28 39	.07	7	.7	.7	N	.3	N	N	N	70
I881910	37 7 18	88 28 39	.05	5	1	1	N	.2	N	N	N	100
I881930	37 7 18	88 28 39	<.05	10	1	1	N	.3	N	N	N	100
I881960	37 7 18	88 28 39	<.05	2	.5	.5	N	.15	N	N	N	70
I881990	37 7 18	88 28 39	.05	1.5	.2	.3	N	.07	N	N	N	50
I882030	37 7 18	88 28 39	.07	2	.3	.2	N	.1	N	N	N	30
I882060	37 7 18	88 28 39	<.05	1.5	.1	N	N	.05	N	N	N	30
I882080	37 7 18	88 28 39	<.05	.7	.05	N	N	.03	N	N	N	20
I882100	37 7 18	88 28 39	N	.2	<.02	N	N	.015	N	N	N	10
I882120	37 7 18	88 28 39	N	.5	.02	N	N	.02	N	N	N	20
I882160	37 7 18	88 28 39	N	.2	<.02	N	N	.01	N	N	N	20
I882200	37 7 18	88 28 39	N	.3	.02	N	N	.015	N	N	N	30
I882260	37 7 18	88 28 39	N	.5	.02	N	N	.015	N	N	N	20
I882320	37 7 18	88 28 39	N	.3	.03	N	N	.02	N	N	N	50
I882360	37 7 18	88 28 39	N	.15	<.02	N	N	.005	N	N	N	30
I882400	37 7 18	88 28 39	<.05	.15	.02	N	N	.01	N	N	N	30
I882430	37 7 18	88 28 39	.1	1.5	.05	N	N	.03	N	N	N	50
I882450	37 7 18	88 28 39	<.05	1	.03	N	N	.02	N	N	N	70
I882470	37 7 18	88 28 39	N	.5	.02	N	N	.015	N	N	N	50
I882490	37 7 18	88 28 39	.07	.7	.05	N	N	.02	N	N	N	50
I882510	37 7 18	88 28 39	.05	.3	.02	N	N	.015	N	N	N	30
I882530	37 7 18	88 28 39	.07	.5	.03	N	N	.02	N	N	N	30
I882550	37 7 18	88 28 39	N	.3	.02	N	N	.015	N	N	N	20
I882570	37 7 18	88 28 39	<.05	.7	.03	N	N	.02	N	N	N	30
I882590	37 7 18	88 28 39	<.05	.7	.02	N	N	.015	N	N	N	20
I882610	37 7 18	88 28 39	.07	.15	.03	N	N	.015	N	N	N	30
I882640	37 7 18	88 28 39	.2	.5	.2	N	N	.03	N	N	N	30
I882660	37 7 18	88 28 39	.3	.5	.2	N	N	.015	N	N	N	20
I882680	37 7 18	88 28 39	.1	.3	.15	N	N	.02	N	N	N	15
I882700	37 7 18	88 28 39	N	.1	<.02	N	N	.01	N	N	N	10
I882720	37 7 18	88 28 39	N	.15	<.02	N	N	.007	N	N	N	30
I882740	37 7 18	88 28 39	.05	.2	.05	N	N	.015	N	N	N	30
I882760	37 7 18	88 28 39	.07	.2	.07	N	N	.015	N	N	N	20
I882780	37 7 18	88 28 39	.1	.2	.15	N	N	.02	N	N	N	50
I882800	37 7 18	88 28 39	.1	.3	.15	N	N	.03	N	N	N	30
I882820	37 7 18	88 28 39	<.05	.1	.1	N	N	.015	N	N	N	15
I882840	37 7 18	88 28 39	.15	.2	.15	N	N	.03	N	N	N	30
I882860	37 7 18	88 28 39	.1	.2	.15	N	N	.02	N	N	N	20
I882880	37 7 18	88 28 39	.15	.7	.3	<.2	N	.07	N	N	N	30
I882900	37 7 18	88 28 39	.07	3	1	<.2	N	.15	N	N	N	50
I882920	37 7 18	88 28 39	.07	1	.7	<.2	N	.1	N	N	N	50
I882940	37 7 18	88 28 39	.1	.3	.5	N	N	.05	N	N	N	30
I882960	37 7 18	88 28 39	.15	.2	.2	N	N	.03	N	N	N	20
I882980	37 7 18	88 28 39	.2	.5	.3	N	N	.05	N	N	N	30
I883000	37 7 18	88 28 39	.2	.5	.2	<.2	N	.07	N	N	N	50
I883020	37 7 18	88 28 39	.15	.7	.7	<.2	N	.07	N	N	N	50
I883040	37 7 18	88 28 39	.07	1	.7	<.2	N	.1	N	N	N	20
I883060	37 7 18	88 28 39	.1	1.5	1	.2	N	.1	N	N	N	30
I883080	37 7 18	88 28 39	.2	2	1.5	.3	N	.1	N	N	N	30
I883100	37 7 18	88 28 39	.05	1	.7	.3	N	.1	N	N	N	15
I883120	37 7 18	88 28 39	.15	1.5	1	.3	N	.15	N	N	N	50
I883140	37 7 18	88 28 39	<.05	1	.7	.5	N	.15	N	N	N	30
I883160	37 7 18	88 28 39	.3	3	2	.5	N	.2	N	N	N	50
I883180	37 7 18	88 28 39	N	2	1.5	.5	N	.2	N	N	N	70
I883200	37 7 18	88 28 39	N	2	1	.5	N	.15	N	N	N	50
I883250	37 7 18	88 28 39	N	2	2	1.5	N	.3	N	N	N	100
I883280	37 7 18	88 28 39	N	1	1	1	N	.2	N	N	N	30
I883320	37 7 18	88 28 39	<.05	5	2	2	N	.5	N	N	N	50
I883360	37 7 18	88 28 39	.05	5	2	1.5	N	.3	N	N	N	100

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 188, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I881870	500	<1	N	N	10	50	70	15	N	N	30	20	N
I881890	150	<1	N	N	10	70	50	20	N	N	15	15	N
I881910	200	1	N	N	15	50	70	20	N	N	30	20	N
I881930	200	<1	N	N	15	50	50	20	N	N	15	30	N
I881960	200	N	N	N	<10	15	30	5	N	N	10	7	N
I881990	150	N	N	N	N	10	30	<5	N	N	10	<5	N
I882030	70	N	N	N	<10	N	20	5	N	N	70	5	N
I882060	50	N	N	N	N	N	30	N	N	N	10	5	N
I882080	20	N	N	N	N	N	10	N	N	N	<10	N	N
I882100	<20	N	N	N	N	N	N	N	N	N	N	N	N
I882120	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I882160	<20	N	N	N	N	N	N	N	N	N	N	N	N
I882200	N	N	N	N	N	20	<5	N	N	N	N	<5	N
I882260	<20	N	N	N	N	N	5	N	N	N	<10	N	N
I882320	N	N	N	N	N	N	<5	N	N	N	<10	N	N
I882360	N	N	N	N	N	N	N	N	N	N	N	N	N
I882400	N	N	N	N	N	N	N	N	N	N	N	N	N
I882430	20	N	N	N	N	30	10	N	N	N	15	10	<20
I882450	30	N	N	N	N	<10	7	N	N	N	10	5	N
I882470	N	N	N	N	N	N	<5	N	N	N	N	N	N
I882490	20	N	N	N	N	10	10	N	N	N	<10	5	<20
I882510	20	N	N	N	N	N	5	N	N	N	N	N	N
I882530	<20	N	N	N	N	<10	<5	N	N	N	<10	N	N
I882550	N	N	N	N	N	N	<5	N	N	N	N	N	N
I882570	<20	N	N	N	N	N	5	N	N	N	N	N	N
I882590	N	N	N	N	N	150	7	N	N	N	N	10	<20
I882610	N	N	N	N	N	N	N	N	N	N	N	N	N
I882640	20	N	N	N	N	N	<5	N	N	N	N	N	N
I882660	<20	N	N	N	N	<10	5	N	N	N	N	N	N
I882680	N	N	N	N	N	N	5	N	N	N	N	N	N
I882700	N	N	N	N	N	N	N	N	N	N	N	N	N
I882720	N	N	N	N	N	N	N	N	N	N	N	N	N
I882740	N	N	N	N	N	N	<5	N	N	N	N	N	N
I882760	N	N	N	N	N	N	<5	N	N	N	N	N	N
I882780	20	N	N	N	N	N	5	N	N	N	N	N	N
I882800	<20	N	N	N	N	<10	5	N	N	N	N	N	N
I882820	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I882840	20	N	N	N	N	N	5	N	N	N	N	N	N
I882860	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I882880	30	N	N	N	N	<10	15	N	N	N	<10	N	N
I882900	50	N	N	N	N	<10	10	<5	N	N	<10	N	N
I882920	30	N	N	N	N	<10	15	N	N	N	N	N	N
I882940	20	N	N	N	N	N	<5	N	N	N	N	N	N
I882960	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I882980	<20	N	N	N	N	70	5	N	N	N	N	5	N
I883000	30	N	N	N	N	<10	5	N	N	N	N	N	N
I883020	30	N	N	N	N	<10	7	N	N	N	N	N	N
I883040	20	N	N	N	N	10	7	N	N	N	N	<5	N
I883060	30	N	N	N	N	70	15	N	N	N	10	7	N
I883080	70	N	N	N	N	20	20	5	N	N	50	10	N
I883100	50	N	N	N	N	10	10	<5	N	N	<10	<5	N
I883120	100	N	N	N	N	15	10	<5	N	N	15	5	N
I883140	70	N	N	N	N	20	15	10	N	N	<10	<5	N
I883160	100	<1	N	N	<10	20	20	15	N	N	30	7	N
I883180	150	<1	N	N	<10	20	30	15	N	N	20	5	N
I883200	100	N	N	N	<10	300	30	10	N	N	15	20	<20
I883250	200	<1	N	N	<10	50	30	30	N	N	10	<5	N
I883280	150	N	N	N	N	15	5	5	N	N	<10	N	N
I883320	300	<1	N	N	<10	100	30	50	N	N	30	7	<20
I883360	300	<1	N	N	10	150	70	50	N	N	50	10	<20

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 188, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I881870	50	20	N	<5	N	<100	N	100	N	N	<200	30	.04	10
I881890	50	30	N	<5	N	<100	N	100	<20	N	N	50	.04	10
I881910	50	20	N	5	N	N	N	150	N	<10	<200	50	.04	10
I881930	7	15	N	<5	N	N	N	300	N	N	<200	70	.04	10
I881960	70	<10	N	N	N	<100	N	100	N	N	N	30	.04	10
I881990	30	N	N	N	N	100	N	50	N	N	N	20	.03	10
I882030	15	N	N	N	N	N	N	30	70	N	N	30	.02	10
I882060	10	30	N	N	N	N	N	20	50	N	N	30	.01	10
I882080	15	N	N	N	N	N	N	<10	100	N	N	30	.01	10
I882100	5	N	N	N	N	N	N	N	100	N	N	10	<.01	10
I882120	N	N	N	N	N	N	N	<10	200	N	N	15	<.01	10
I882160	<5	N	N	N	N	N	N	N	30	N	N	10	<.01	10
I882200	N	N	N	N	N	N	N	<10	1,000	N	N	10	<.01	10
I882260	5	N	N	N	N	N	N	<10	150	N	N	10	.01	10
I882320	<5	N	N	N	N	N	N	N	50	N	N	<10	<.01	10
I882360	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I882400	N	N	N	N	N	N	N	N	N	N	N	15	<.01	10
I882430	10	N	N	N	N	N	N	10	1,000	N	N	50	.01	10
I882450	5	N	N	N	N	N	N	10	100	N	N	70	<.01	10
I882470	5	N	N	N	N	N	N	<10	100	N	N	10	<.01	10
I882490	5	N	N	N	N	N	N	15	1,500	N	N	70	.02	10
I882510	<5	N	N	N	N	N	N	10	150	N	N	10	.02	10
I882530	<5	N	N	N	N	N	N	10	<20	N	N	15	.05	10
I882550	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	10
I882570	7	N	N	N	N	N	N	10	150	N	N	20	.02	10
I882590	5	N	N	N	N	N	N	N	2,000	N	N	10	.03	10
I882610	N	N	N	N	N	N	N	N	20	N	N	<10	.01	10
I882640	<5	N	N	N	N	N	N	<10	70	N	N	10	.02	10
I882660	<5	N	N	N	N	N	N	N	N	N	N	10	.02	10
I882680	<5	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I882700	N	N	N	N	N	N	N	N	N	N	N	N	.01	10
I882720	N	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I882740	N	N	N	N	N	N	N	N	100	N	N	15	.01	10
I882760	N	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I882780	N	N	N	N	N	N	N	N	70	N	N	<10	.01	10
I882800	<5	N	N	N	N	N	N	<10	50	N	N	10	.01	10
I882820	N	N	N	N	N	N	N	N	100	N	N	<10	.01	10
I882840	N	N	N	N	N	N	N	<10	N	N	N	10	.01	10
I882860	N	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I882880	5	N	N	N	N	N	N	15	N	N	N	20	.02	10
I882900	5	N	N	N	N	N	N	30	N	N	N	70	.04	10
I882920	5	N	N	N	N	N	N	<10	N	N	N	50	.02	10
I882940	<5	N	N	N	N	N	N	N	N	N	N	30	.02	10
I882960	<5	N	N	N	N	N	N	N	N	N	N	10	.02	10
I882980	<5	N	N	N	N	N	N	<10	50	N	N	20	.02	10
I883000	<5	N	N	N	N	N	N	10	N	N	N	20	.02	10
I883020	<5	N	N	N	N	N	N	15	N	N	N	20	.03	10
I883040	5	N	N	N	N	N	N	15	N	N	N	15	.05	10
I883060	5	N	N	N	N	N	N	20	N	N	N	30	.05	10
I883080	7	N	N	N	N	N	N	30	N	N	N	30	.05	10
I883100	5	N	N	N	N	N	N	20	N	N	N	20	.05	10
I883120	7	N	N	N	N	N	N	30	20	N	N	50	.04	10
I883140	7	N	N	N	N	N	N	30	30	N	N	30	.05	15
I883160	10	<10	N	<5	N	N	N	50	50	N	N	50	.06	15
I883180	10	<10	N	<5	N	N	N	70	150	N	N	70	.07	15
I883200	10	<10	N	<5	N	N	N	50	1,000	N	N	50	.05	15
I883250	10	<10	N	5	N	N	N	50	N	N	N	70	.08	15
I883280	5	N	N	N	N	N	N	30	N	N	N	70	.05	15
I883320	10	10	N	5	N	N	N	50	30	<10	N	100	.05	15
I883360	20	15	N	5	N	N	N	70	20	N	N	70	.05	15

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I88, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I883380	37 7 18	88 28 39	<.05	5	1.5	.5	N	.3	N	N	N	70
I883410	37 7 18	88 28 39	.05	1	.5	<.2	N	.1	N	N	N	50
I883440	37 7 18	88 28 39	.07	.7	.2	<.2	N	.07	N	N	N	30
I883460	37 7 18	88 28 39	.15	3	.3	.2	N	.15	N	N	N	50
I883480	37 7 18	88 28 39	N	1.5	.7	1.5	N	.3	.5	N	N	30
I883510	37 7 18	88 28 39	N	2	1	1.5	N	.5	N	N	N	50
I883540	37 7 18	88 28 39	N	1.5	.7	1.5	N	.3	N	N	N	30
I883580	37 7 18	88 28 39	.05	2	1	2	N	.5	N	N	N	50
I883610	37 7 18	88 28 39	<.05	1.5	.5	1.5	N	.3	N	N	N	50
I883630	37 7 18	88 28 39	.15	1.5	.7	1	N	.2	N	N	N	30
I883645	37 7 18	88 28 39	<.05	1.5	.7	1	N	.3	N	N	N	50
I883690	37 7 18	88 28 39	.1	1.5	.5	1.5	N	.3	N	N	N	50
I883710	37 7 18	88 28 39	N	1	.2	1.5	N	.2	N	N	N	20
I883730	37 7 18	88 28 39	N	1	.3	1	N	.2	N	N	N	15
I883750	37 7 18	88 28 39	<.05	1.5	.5	1.5	N	.5	N	N	N	20
I883785	37 7 18	88 28 39	.05	1.5	.7	.7	N	.3	N	N	N	50
I883805	37 7 18	88 28 39	.07	1	.1	.3	N	.1	N	N	N	20
I883825	37 7 18	88 28 39	.05	2	1	1	N	.2	N	N	N	50
I883845	37 7 18	88 28 39	.05	1.5	.5	.5	N	.15	N	N	N	30
I883865	37 7 18	88 28 39	.07	1	.5	.5	N	.1	N	N	N	30
I883885	37 7 18	88 28 39	.1	2	1.5	.5	N	.3	N	N	N	50
I883905	37 7 18	88 28 39	.15	1	.7	.2	N	.15	N	N	N	50
I883925	37 7 18	88 28 39	<.05	1.5	1	.5	N	.15	N	N	N	30
I883945	37 7 18	88 28 39	.15	1.5	1	.3	N	.2	N	N	N	100
I883965	37 7 18	88 28 39	.1	1.5	.7	.3	N	.15	N	N	N	50
I883985	37 7 18	88 28 39	.15	3	1	.3	N	.2	N	N	N	70
I884005	37 7 18	88 28 39	.15	2	1	.5	N	.2	N	N	N	50
I884025	37 7 18	88 28 39	.15	3	.7	.2	N	.1	N	N	N	20
I884045	37 7 18	88 28 39	.1	1.5	.7	1.5	N	.3	N	N	N	50
I884065	37 7 18	88 28 39	.1	2	1	.5	N	.15	N	N	N	50
I884085	37 7 18	88 28 39	.2	1	.3	.2	N	.1	N	N	N	30
I884100	37 7 18	88 28 39	.15	1	.2	<.2	N	.1	N	N	N	20

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 188, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
1883380	300	<1	N	N	10	50	20	50	N	N	15	5	<20
1883410	70	N	N	N	<10	20	15	<5	N	N	10	<5	N
1883440	50	N	N	N	N	<10	5	N	N	N	N	N	N
1883460	150	N	N	N	<10	15	15	<5	N	N	10	5	N
1883480	200	<1	N	N	N	20	10	30	N	<50	15	N	N
1883510	300	<1	N	N	N	20	10	15	N	<50	20	<5	<20
1883540	200	N	N	N	N	20	15	30	N	N	20	5	N
1883580	300	<1	N	N	<10	30	20	50	N	N	50	N	<20
1883610	150	<1	N	N	N	15	15	20	N	N	30	N	N
1883630	150	<1	N	N	N	10	15	20	N	N	50	N	N
1883645	200	<1	N	N	N	50	20	50	N	N	30	<5	N
1883690	150	N	N	N	N	10	15	20	N	N	20	N	N
1883710	100	N	N	N	N	<10	5	10	N	N	10	N	N
1883730	100	N	N	N	N	<10	10	10	N	N	10	N	N
1883750	200	<1	N	N	<10	10	15	15	N	N	30	<5	<20
1883785	150	<1	N	N	N	10	15	15	N	N	15	N	N
1883805	50	N	N	N	N	15	10	<5	N	N	<10	N	N
1883825	150	N	N	N	<10	50	15	20	N	N	15	<5	N
1883845	70	N	N	N	N	30	20	15	N	N	10	N	N
1883865	70	N	N	N	N	<10	5	10	N	N	<10	N	N
1883885	50	N	N	N	N	<10	10	50	N	N	15	N	N
1883905	50	N	N	N	N	N	7	5	N	N	10	N	N
1883925	100	N	N	N	N	30	10	20	N	N	10	<5	N
1883945	70	N	N	N	N	50	20	15	N	N	10	5	N
1883965	50	N	N	N	N	30	30	20	N	N	10	N	N
1883985	70	N	N	N	N	50	20	30	N	N	15	5	N
1884005	70	N	N	N	N	30	15	30	N	N	15	<5	N
1884025	50	N	N	N	N	10	7	15	N	N	30	5	N
1884045	200	<1	N	N	<10	15	15	50	N	N	20	N	N
1884065	150	N	N	N	<10	15	20	30	N	N	20	N	N
1884085	50	N	N	N	N	N	7	7	N	N	<10	N	N
1884100	50	N	N	N	N	70	5	N	N	N	<10	5	N

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I88, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
1883380	15	N	N	5	N	N	N	50	20	<10	N	50	.06	15
1883410	7	10	N	N	N	N	N	20	N	N	N	20	.02	15
1883440	<5	N	N	N	N	N	N	15	N	N	N	15	.02	15
1883460	7	N	N	N	N	N	N	15	N	N	N	30	.02	15
1883480	5	N	N	<5	N	N	N	20	N	10	N	150	.02	22
1883510	5	N	N	5	N	N	N	50	N	10	N	200	.02	22
1883540	7	N	N	<5	N	N	N	30	30	<10	N	150	.02	22
1883580	7	<10	N	<5	N	N	N	50	N	N	N	200	.06	22
1883610	5	N	N	<5	N	N	N	30	N	N	N	150	.03	22
1883630	7	N	N	<5	N	N	N	30	N	N	N	70	.02	22
1883645	7	N	N	<5	N	N	N	50	N	N	N	100	.03	22
1883690	7	N	N	<5	N	N	N	30	N	N	N	150	.03	22
1883710	<5	N	N	N	N	N	N	15	N	N	N	100	.02	22
1883730	5	N	N	N	N	N	N	20	N	N	N	70	.03	22
1883750	7	N	N	<5	N	N	N	50	N	N	N	200	.03	22
1883785	5	N	N	<5	N	N	N	50	20	N	N	70	.04	25
1883805	5	N	N	N	N	N	N	20	50	N	N	30	.02	25
1883825	7	<10	N	<5	N	N	N	50	30	N	N	70	.05	25
1883845	5	N	N	N	N	N	N	20	20	N	N	30	.06	26
1883865	<5	N	N	N	N	N	N	15	N	N	N	30	.09	26
1883885	5	<10	N	<5	N	N	N	30	N	N	N	50	.15	26
1883905	<5	N	N	N	N	N	N	10	N	N	200	70	.08	26
1883925	5	10	N	N	N	N	N	20	N	N	<200	20	.11	26
1883945	5	<10	N	N	N	N	N	50	N	N	N	100	.12	26
1883965	<5	<10	N	N	N	N	N	20	N	N	200	50	.1	26
1883985	7	15	N	<5	N	N	N	30	N	N	N	70	.15	26
1884005	5	10	N	<5	N	N	N	20	N	N	N	70	.21	26
1884025	<5	<10	N	N	N	N	N	15	N	N	N	30	.25	26
1884045	5	N	N	<5	N	N	N	30	N	N	N	100	.05	26
1884065	7	N	N	<5	N	N	N	50	N	N	N	30	.12	26
1884085	5	N	N	N	N	N	N	15	N	N	N	15	.05	26
1884100	<5	N	N	N	N	<100	N	10	<20	N	N	15	.05	26

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I89RD606	37 12 52	89 6 31	.07	3	.05	N	N	.05	N	N	N	20
I89R0626	37 12 52	89 6 31	<.05	2	.3	N	N	.1	N	N	N	50
I89R0646	37 12 52	89 6 31	N	5	.7	N	N	.15	N	N	N	70
I89R0668	37 12 52	89 6 31	.1	15	.2	N	N	.1	.7	N	N	30
I89R0690	37 12 52	89 6 31	N	10	1	.2	N	.2	N	N	N	100
I89R0725	37 12 52	89 6 31	N	10	.5	<.2	N	.15	N	N	N	50
I89R0849	37 12 52	89 6 31	.07	1	.15	N	N	.05	N	N	N	30
I89R0870	37 12 52	89 6 31	N	.5	.03	N	N	.01	N	N	N	N
I89R0890	37 12 52	89 6 31	N	.2	<.02	N	N	.003	N	N	N	N
I89R0910	37 12 52	89 6 31	N	.15	<.02	N	N	.005	N	N	N	N
I89R0930	37 12 52	89 6 31	N	.1	.02	N	N	.003	N	N	N	<10
I89R0960	37 12 52	89 6 31	N	.07	<.02	N	N	.002	N	N	N	N
I89R0994	37 12 52	89 6 31	N	.15	.02	N	N	.003	N	N	N	10
I89R1016	37 12 52	89 6 31	N	.2	<.02	N	N	<.002	N	N	N	<10
I89R1040	37 12 52	89 6 31	N	.05	.02	N	N	<.002	N	N	N	15
I89R1060	37 12 52	89 6 31	N	.05	<.02	N	N	<.002	N	N	N	N
I89R1081	37 12 52	89 6 31	N	.07	<.02	N	N	.002	N	N	N	<10
I89R1108	37 12 52	89 6 31	N	.05	.02	N	N	.002	N	N	N	20
I89R1137	37 12 52	89 6 31	N	<.05	.02	N	N	<.002	N	N	N	50
I89R1167	37 12 52	89 6 31	N	.07	<.02	N	N	.007	N	N	N	30
I89R1192	37 12 52	89 6 31	<.05	.15	<.02	N	N	.003	N	N	N	50
I89R1210	37 12 52	89 6 31	N	.3	N	N	N	N	N	N	N	30
I89R1230	37 12 52	89 6 31	.2	.2	.05	N	N	.002	N	N	N	30
I89R1250	37 12 52	89 6 31	.15	.1	<.02	N	N	<.002	N	N	N	30
I89R1275	37 12 52	89 6 31	.07	.5	.02	N	N	.003	N	N	N	50
I89R1305	37 12 52	89 6 31	.1	.3	.03	N	N	.002	N	N	N	30
I89R1324	37 12 52	89 6 31	.05	.2	.02	N	N	.003	N	N	N	50
I89R1345	37 12 52	89 6 31	.1	.07	.02	N	N	<.002	N	N	N	30
I89R1365	37 12 52	89 6 31	N	.1	<.02	N	N	.005	N	N	N	70
I89R1383	37 12 52	89 6 31	N	.5	<.02	N	N	.003	N	N	N	50
I89R1400	37 12 52	89 6 31	N	.2	.07	N	N	.03	N	N	N	30
I89R1419	37 12 52	89 6 31	.2	.5	.3	N	N	.05	N	N	N	20
I89R1447	37 12 52	89 6 31	.05	1	.5	N	N	.15	N	N	N	70
I89R1474	37 12 52	89 6 31	<.05	.5	.15	N	N	.05	N	N	N	30
I89R1497	37 12 52	89 6 31	.3	1	1	N	N	.15	N	N	N	50
I89R1521	37 12 52	89 6 31	.5	.15	.5	N	N	.02	N	N	N	30
I89R1543	37 12 52	89 6 31	1.5	.3	1.5	N	N	.02	N	N	N	30
I89R1566	37 12 52	89 6 31	3	.2	2	N	N	.05	N	N	N	20
I89R1587	37 12 52	89 6 31	.15	.1	.1	N	N	.01	N	N	N	20
I89R1610	37 12 52	89 6 31	.2	.15	.3	N	N	.015	N	N	N	20
I89R1636	37 12 52	89 6 31	.2	.5	.5	N	N	.02	N	N	N	15
I89R1655	37 12 52	89 6 31	.15	.3	.15	N	N	.015	N	N	N	10
I89R1688	37 12 52	89 6 31	.7	.5	.7	N	N	.02	N	N	N	20
I89R1714	37 12 52	89 6 31	.1	.3	.2	N	N	.02	N	N	N	15
I89R1734	37 12 52	89 6 31	<.05	.2	.05	N	N	.015	N	N	N	15
I89R1757	37 12 52	89 6 31	.07	.5	.3	N	N	.05	N	N	N	30
I89R1778	37 12 52	89 6 31	.15	.5	.5	N	N	.05	N	N	N	10
I89R1803	37 12 52	89 6 31	.2	.5	.3	N	N	.05	N	N	N	15
I89R1823	37 12 52	89 6 31	.1	.3	.2	N	N	.03	N	N	N	20
I89R1847	37 12 52	89 6 31	.07	.2	.15	N	N	.03	N	N	N	15
I89R1869	37 12 52	89 6 31	.05	.5	.7	.2	N	.05	N	N	N	15
I89R1889	37 12 52	89 6 31	.1	1	1	.2	N	.15	N	N	N	30
I89R1915	37 12 52	89 6 31	.15	1	.7	.2	N	.15	N	N	N	30
I89R1937	37 12 52	89 6 31	.2	1.5	.7	.2	N	.1	N	N	N	50
I89R1958	37 12 52	89 6 31	.1	.7	.3	<.2	N	.05	N	N	N	15
I89R1978	37 12 52	89 6 31	.15	1	1	<.2	N	.1	N	N	N	50
I89R2000	37 12 52	89 6 31	.07	1.5	1.5	.7	N	.15	<.5	N	N	30
I89R2020	37 12 52	89 6 31	.1	1.5	1	.3	N	.1	N	N	N	50
I89R2042	37 12 52	89 6 31	.07	1	1	.3	N	.15	N	N	N	30
I89R2065	37 12 52	89 6 31	.15	1.5	1	.3	N	.1	N	N	N	30

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I89R0606	30	N	N	N	N	N	10	N	N	N	N	N	N
I89R0626	70	N	N	N	N	<10	10	<5	N	N	<10	N	N
I89R0646	100	<1	N	N	15	15	15	5	N	N	10	N	N
I89R0668	100	N	N	N	70	10	50	15	N	N	15	20	N
I89R0690	300	1	N	N	50	30	70	30	N	N	20	50	N
I89R0725	150	<1	N	N	15	20	50	20	N	N	15	30	N
I89R0849	20	N	N	N	N	N	15	N	N	N	30	N	N
I89R0870	N	N	N	N	N	N	10	N	N	N	<10	N	N
I89R0890	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R0910	N	N	N	N	N	N	<5	N	N	N	N	N	N
I89R0930	N	N	N	N	N	N	20	N	N	N	N	N	N
I89R0960	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R0994	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1016	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1040	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1060	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1081	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1108	N	N	N	N	N	N	20	N	N	N	N	N	N
I89R1137	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1167	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1192	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1210	N	N	N	N	N	N	5	N	N	N	N	N	N
I89R1230	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1250	N	N	N	N	N	N	<5	N	N	N	N	N	N
I89R1275	N	N	N	N	N	N	<5	N	N	N	<10	N	N
I89R1305	N	N	N	N	N	N	5	N	N	N	<10	N	N
I89R1324	N	N	N	N	N	N	N	N	N	N	<10	N	N
I89R1345	N	N	N	N	N	N	<5	N	N	N	N	N	N
I89R1365	N	N	N	N	N	N	<5	N	N	N	N	N	N
I89R1383	N	N	N	N	N	N	10	N	N	N	<10	N	N
I89R1400	N	N	N	N	N	N	5	N	N	N	N	N	N
I89R1419	<20	N	N	N	N	N	7	N	N	N	<10	N	N
I89R1447	30	N	N	N	N	<10	20	<5	N	N	10	N	N
I89R1474	N	N	N	N	N	N	5	N	N	N	N	N	N
I89R1497	30	N	N	N	N	10	10	10	N	N	<10	N	N
I89R1521	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1543	N	N	N	N	N	N	N	N	N	N	<10	N	N
I89R1566	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I89R1587	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1610	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1636	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I89R1655	N	N	N	N	N	N	150	N	N	N	N	N	N
I89R1688	N	N	N	N	N	N	<5	N	N	N	<10	N	N
I89R1714	N	N	N	N	N	N	5	N	N	N	N	N	N
I89R1734	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R1757	50	N	N	N	N	N	30	N	N	N	N	N	N
I89R1778	<20	N	N	N	N	N	30	N	N	N	N	N	N
I89R1803	<20	N	N	N	N	N	5	N	N	N	N	N	N
I89R1823	N	N	N	N	N	N	<5	N	N	N	N	N	N
I89R1847	N	N	N	N	N	N	5	N	N	N	N	N	N
I89R1869	30	N	N	N	N	<10	5	<5	N	N	<10	N	N
I89R1889	50	N	N	N	N	10	15	5	N	N	<10	<5	N
I89R1915	50	N	N	N	N	<10	7	5	N	N	10	<5	N
I89R1937	50	N	N	N	N	<10	10	5	N	N	15	N	N
I89R1958	50	N	N	N	N	N	5	N	N	N	N	N	N
I89R1978	30	N	N	N	N	<10	20	<5	N	N	<10	N	N
I89R2000	70	N	N	N	<10	15	7	15	N	N	<10	N	N
I89R2020	50	N	N	N	N	10	10	10	N	N	10	N	N
I89R2042	50	N	N	N	N	10	5	10	N	N	10	N	N
I89R2065	50	N	N	N	N	<10	5	10	N	N	<10	N	N

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I89R0606	10	N	N	N	N	N	N	15	N	N	N	15	<.05	7
I89R0626	15	N	N	N	N	N	N	30	N	N	N	30	<.05	7
I89R0646	30	N	N	<5	N	N	N	50	N	<10	<200	50	<.05	7
I89R0668	100	20	N	<5	N	N	N	50	N	<10	200	30	.06	8
I89R0690	70	20	N	7	N	<100	N	100	N	<10	300	30	<.05	11
I89R0725	50	30	N	<5	N	N	N	70	N	N	<200	20	<.05	11
I89R0849	7	N	N	N	N	N	N	20	N	N	N	<10	<.05	11
I89R0870	N	N	N	N	N	N	N	<10	N	N	N	10	<.05	10
I89R0890	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R0910	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I89R0930	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R0960	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R0994	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1016	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1040	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1060	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1081	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1108	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1137	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1167	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1192	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1210	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1230	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1250	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1275	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1305	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I89R1324	N	15	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1345	N	70	N	N	N	N	N	N	N	N	N	10	<.05	10
I89R1365	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I89R1383	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1400	<5	N	N	N	N	N	N	10	N	N	N	15	<.05	10
I89R1419	5	N	N	N	N	N	N	15	N	N	N	30	<.05	10
I89R1447	7	<10	N	<5	N	N	N	50	N	N	<200	100	.08	10
I89R1474	5	N	N	N	N	N	N	20	N	N	N	50	.05	10
I89R1497	10	15	N	<5	N	N	N	30	N	N	N	70	.07	10
I89R1521	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1543	<5	N	N	N	N	N	N	<10	N	N	N	20	<.05	10
I89R1566	<5	N	N	N	N	N	N	10	N	N	N	20	<.05	10
I89R1587	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1610	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1636	<5	N	N	N	N	N	N	<10	N	N	N	15	<.05	10
I89R1655	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I89R1688	<5	20	N	N	N	N	N	10	N	N	N	<10	<.05	10
I89R1714	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	10
I89R1734	N	N	N	N	N	N	N	N	N	N	N	20	<.05	10
I89R1757	<5	N	N	N	N	N	N	15	N	N	N	30	<.05	10
I89R1778	<5	N	N	N	N	N	N	15	N	N	N	20	<.05	10
I89R1803	<5	N	N	N	N	N	N	10	N	N	N	10	<.05	10
I89R1823	<5	N	N	N	N	N	N	<10	N	N	N	20	<.05	10
I89R1847	N	300	N	N	N	N	N	N	<20	N	N	<10	<.05	10
I89R1869	5	N	N	N	N	N	N	20	N	N	N	20	<.05	10
I89R1889	5	10	N	N	N	N	N	50	<20	N	N	30	.05	10
I89R1915	7	N	N	N	N	N	N	30	50	N	N	30	<.05	10
I89R1937	5	N	N	N	N	N	N	50	N	N	N	50	<.05	10
I89R1958	<5	N	N	N	N	N	N	15	N	N	N	30	<.05	10
I89R1978	5	N	N	N	N	N	N	30	N	N	N	30	.06	10
I89R2000	5	500	N	N	N	N	N	50	N	N	N	30	.06	10
I89R2020	5	70	N	N	N	N	N	30	N	N	N	30	.05	10
I89R2042	5	10	N	N	N	N	N	30	N	N	N	20	<.05	10
I89R2065	5	<10	N	N	N	N	N	20	N	N	N	50	.05	10

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I89R2087	37 12 52	89 6 31	.05	1	1.5	1	N	.1	N	N	N	30
I89R2109	37 12 52	89 6 31	N	2	3	.5	N	.2	N	N	N	70
I89R2130	37 12 52	89 6 31	N	2	2	1.5	N	.2	N	N	N	50
I89R2150	37 12 52	89 6 31	.05	3	2	1.5	N	.2	N	N	N	30
I89R2173	37 12 52	89 6 31	<.05	1.5	1.5	1	N	.15	N	N	N	30
I89R2195	37 12 52	89 6 31	<.05	2	3	1	N	.2	N	N	N	50
I89R2220	37 12 52	89 6 31	<.05	5	3	1.5	N	.3	N	N	N	70
I89R2240	37 12 52	89 6 31	<.05	5	3	1.5	N	.5	N	N	N	50
I89R2260	37 12 52	89 6 31	N	3	3	1.5	N	.3	N	N	N	50
I89R2283	37 12 52	89 6 31	<.05	15	2	1	N	.5	N	N	N	100
I89R2303	37 12 52	89 6 31	.15	.7	.3	N	N	.05	N	N	N	10
I89R2328	37 12 52	89 6 31	.2	1.5	.3	N	N	.03	N	N	N	<10
I89R2350	37 12 52	89 6 31	.07	.7	.2	N	N	.05	N	N	N	<10
I89R2380	37 12 52	89 6 31	.15	.2	1	.2	N	.2	N	N	N	20
I89R2586	37 12 52	89 6 31	<.05	.5	1.5	1.5	N	.3	N	N	N	30
I89R2607	37 12 52	89 6 31	.07	.7	1	1	N	.2	1	N	N	20
I89R2627	37 12 52	89 6 31	N	5	1.5	.7	N	.2	N	N	N	70
I89R2651	37 12 52	89 6 31	15	5	10	.2	N	.07	N	N	N	15
I89R2675	37 12 52	89 6 31	<.05	3	1.5	1	N	.3	N	N	N	70
I89R2696	37 12 52	89 6 31	N	7	2	2	N	.5	N	N	N	50
I89R2717	37 12 52	89 6 31	<.05	5	1.5	1.5	N	.3	N	N	N	50
I89R2756	37 12 52	89 6 31	.15	10	1	<.2	N	.1	.7	N	N	70
I89R2777	37 12 52	89 6 31	.05	2	2	N	N	.07	N	N	N	20
I89R2789	37 12 52	89 6 31	.07	7	1.5	.7	N	.2	N	N	N	30
I89R2800	37 12 52	89 6 31	.07	5	3	N	N	.1	N	N	N	30
I89R2819	37 12 52	89 6 31	N	7	2	N	N	.1	N	N	N	30
I89R2833	37 12 52	89 6 31	N	5	5	N	N	.1	N	N	N	100
I89R2876	37 12 52	89 6 31	.3	1.5	.1	N	N	.02	N	N	N	N
I89R2896	37 12 52	89 6 31	.15	.7	.05	N	N	.03	N	N	N	N
I89R2921	37 12 52	89 6 31	.5	2	.7	<.2	N	.15	N	N	N	15
I89R2940	37 12 52	89 6 31	.15	5	2	.5	N	.5	N	N	N	100
I89R2960	37 12 52	89 6 31	.1	7	1.5	.2	N	.3	N	N	N	30
I89R2980	37 12 52	89 6 31	.05	1.5	.3	N	N	.1	N	N	N	<10
I89R3001	37 12 52	89 6 31	2	.5	.2	N	N	.015	N	N	N	N
I89R3020	37 12 52	89 6 31	.2	.5	.15	N	N	.02	N	N	N	10
I89R3045	37 12 52	89 6 31	.7	1	.3	N	N	.07	N	N	N	<10
I89R3068	37 12 52	89 6 31	.15	1	.15	N	N	.05	N	N	N	15
I89R3087	37 12 52	89 6 31	.07	.5	.02	N	N	.01	N	N	N	N
I89R3105	37 12 52	89 6 31	.3	1.5	.5	<.2	N	.07	N	N	N	15
I89R3126	37 12 52	89 6 31	.3	3	1	.3	N	.2	N	N	N	30
I89R3148	37 12 52	89 6 31	1	2	1	.3	N	.2	N	N	N	20
I89R3174	37 12 52	89 6 31	.07	1.5	1.5	.3	N	.2	N	N	N	15
I89R3193	37 12 52	89 6 31	.05	1.5	1.5	.2	N	.2	N	N	N	30
I89R3210	37 12 52	89 6 31	.05	7	2	.2	N	.3	N	N	N	30
I89R3232	37 12 52	89 6 31	<.05	3	1	.2	N	.3	N	N	N	30
I89R3254	37 12 52	89 6 31	1.5	2	1.5	N	N	.1	N	N	N	15
I89R3274	37 12 52	89 6 31	.07	2	.5	<.2	N	.15	N	N	N	20
I89R3295	37 12 52	89 6 31	.5	3	2	.2	N	.3	N	N	N	70
I89R3310	37 12 52	89 6 31	.07	5	1.5	.2	N	.3	N	N	N	50
I89R3340	37 12 52	89 6 31	.05	3	1.5	.5	N	.3	N	N	N	30
I89R3358	37 12 52	89 6 31	N	5	2	.5	N	.3	N	N	N	70
I89R3381	37 12 52	89 6 31	.07	7	.3	<.2	N	.2	N	N	N	20
I89R3398	37 12 52	89 6 31	.7	1.5	1	.7	N	.2	N	N	N	30
I89R3426	37 12 52	89 6 31	2	7	1	.7	N	.3	N	N	N	30
I89R3455	37 12 52	89 6 31	1.5	2	1	1	N	.15	N	N	N	50
I89R3470	37 12 52	89 6 31	10	.7	7	.5	N	.05	N	N	N	30
I89R3537	37 12 52	89 6 31	.15	2	1.5	1	N	.5	N	N	N	50
I89R3548	37 12 52	89 6 31	N	1.5	1	.5	N	.3	N	N	N	15
I89R3582	37 12 52	89 6 31	N	1.5	.7	1.5	N	.3	N	N	N	10
I89R3614	37 12 52	89 6 31	<.05	1.5	.7	.3	N	.3	N	N	N	20

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I89R2087	70	<1	N	N	N	15	7	7	N	N	10	N	N
I89R2109	150	1	N	N	<10	30	10	15	N	N	30	N	N
I89R2130	200	<1	N	N	10	70	10	30	N	N	15	N	N
I89R2150	200	N	N	N	<10	50	5	20	N	N	20	N	N
I89R2173	150	<1	N	N	<10	20	<5	5	N	N	10	N	N
I89R2195	200	1	N	N	<10	30	10	10	N	N	15	N	N
I89R2220	300	<1	N	N	10	30	<5	30	N	N	50	N	N
I89R2240	300	<1	N	N	10	50	<5	20	N	N	30	N	N
I89R2260	500	1	N	N	10	50	70	15	N	N	50	N	N
I89R2283	5,000	1.5	N	N	30	30	50	20	N	<50	50	5	<20
I89R2303	500	N	N	N	15	N	<5	N	N	N	N	N	N
I89R2328	300	N	N	N	50	N	10	N	N	N	<10	N	N
I89R2350	30	N	N	N	N	N	7	N	N	N	<10	N	N
I89R2380	200	N	N	N	N	10	10	<5	N	N	20	N	N
I89R2586	300	1	N	N	10	30	70	30	N	N	70	10	N
I89R2607	200	<1	N	N	10	20	70	30	N	N	70	7	N
I89R2627	300	<1	N	N	<10	30	20	20	N	<50	50	5	<20
I89R2651	1,000	N	N	N	N	<10	5	<5	N	N	300	5	N
I89R2675	500	1.5	N	N	10	20	20	20	N	N	150	5	N
I89R2696	700	1	N	N	15	70	30	50	N	<50	50	7	<20
I89R2717	700	1	N	N	10	30	15	50	N	<50	100	<5	N
I89R2756	300	<1	N	N	N	N	20	30	N	50	30	7	N
I89R2777	500	N	N	N	N	N	7	20	N	N	10	<5	N
I89R2789	1,000	<1	N	N	<10	15	20	30	N	100	20	7	N
I89R2800	5,000	<1	N	N	N	N	5	30	N	N	15	<5	N
I89R2819	3,000	N	N	N	N	N	5	20	<10	N	10	5	N
I89R2833	1,500	<1	N	N	N	N	7	70	50	N	10	<5	N
I89R2876	70	N	N	N	N	N	500	N	N	N	<10	N	N
I89R2896	N	N	N	N	N	N	5	N	N	N	<10	N	N
I89R2921	70	N	N	N	N	10	10	5	N	N	15	N	N
I89R2940	300	<1	N	N	<10	70	30	70	N	N	100	5	<20
I89R2960	150	N	N	N	<10	70	30	50	N	N	70	5	N
I89R2980	20	N	N	N	N	N	7	<5	N	N	15	N	N
I89R3001	N	N	N	N	N	N	15	N	N	N	N	N	N
I89R3020	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I89R3045	20	N	N	N	N	N	15	N	N	N	10	N	N
I89R3068	30	N	N	N	N	N	7	N	N	N	15	N	N
I89R3087	N	N	N	N	N	N	N	N	N	N	N	N	N
I89R3105	30	N	N	N	N	N	5	5	N	N	10	N	N
I89R3126	150	N	N	N	<10	20	15	30	N	N	50	N	N
I89R3148	300	N	N	N	<10	50	20	30	N	N	15	N	N
I89R3174	100	N	N	N	<10	100	30	50	N	N	10	N	N
I89R3193	100	N	N	N	<10	70	20	50	N	N	15	N	N
I89R3210	150	<1	N	N	10	100	30	70	N	N	50	5	N
I89R3232	100	N	N	N	<10	70	20	50	N	N	30	<5	N
I89R3254	30	N	N	N	N	<10	10	<5	N	N	10	7	N
I89R3274	50	N	N	N	N	10	15	20	N	N	20	<5	N
I89R3295	150	<1	N	N	10	70	30	70	N	N	30	N	N
I89R3310	150	<1	N	N	15	100	30	100	N	N	50	<5	N
I89R3340	150	N	N	N	10	70	30	70	N	N	20	<5	N
I89R3358	200	<1	N	N	15	100	70	70	N	N	30	<5	N
I89R3381	1,500	N	N	N	<10	20	30	5	N	N	20	5	N
I89R3398	2,000	N	N	N	<10	20	20	20	N	N	15	<5	N
I89R3426	5,000	N	N	N	15	30	50	30	N	N	100	5	N
I89R3455	3,000	N	N	N	<10	20	20	20	N	N	20	<5	N
I89R3470	100	N	<10	N	N	<10	5	7	N	N	10	N	N
I89R3537	1,500	N	N	N	10	30	30	20	N	N	30	10	N
I89R3548	2,000	N	N	N	<10	15	20	10	N	N	10	7	N
I89R3582	1,000	N	N	N	<10	30	30	20	N	N	15	<5	N
I89R3614	2,000	N	N	N	N	20	20	20	N	N	15	N	N

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I89R2087	5	N	N	<5	N	N	N	30	N	N	N	20	.05	10
I89R2109	10	N	N	5	N	N	N	50	N	N	N	30	.06	10
I89R2130	15	10	N	5	N	N	N	50	N	N	N	50	.06	10
I89R2150	10	N	N	5	N	N	N	50	N	N	N	70	.06	10
I89R2173	7	N	N	<5	N	N	N	30	N	N	N	30	.08	10
I89R2195	10	N	N	5	N	N	N	70	N	N	N	50	.08	10
I89R2220	15	N	N	7	N	N	N	70	N	<10	N	70	.06	10
I89R2240	15	N	N	5	N	N	N	50	N	<10	N	70	.09	10
I89R2260	15	N	N	5	N	N	N	50	N	<10	N	70	.07	10
I89R2283	50	100	N	7	N	<100	N	100	20	10	N	100	.08	10
I89R2303	7	N	N	N	N	N	N	15	N	N	N	15	<.05	10
I89R2328	20	200	N	N	10	N	N	<10	N	N	<200	<10	<.05	10
I89R2350	N	N	N	N	N	N	N	10	N	N	200	15	.05	10
I89R2380	5	70	N	N	N	N	N	30	N	N	N	30	.1	10
I89R2586	20	100	N	7	<10	N	N	100	N	<10	N	70	<.05	25
I89R2607	20	10,000	700	5	>1,000	N	N	50	N	<10	N	50	.05	25
I89R2627	10	N	N	7	N	N	N	100	N	N	N	50	.06	25
I89R2651	5	20	N	<5	N	<100	N	10	N	10	N	15	<.05	25
I89R2675	15	<10	N	5	N	N	N	70	N	<10	N	70	<.05	25
I89R2696	20	30	N	7	N	N	N	70	N	10	N	100	.05	25
I89R2717	15	150	N	5	N	N	N	70	N	<10	N	70	.05	25
I89R2756	5	15	N	<5	N	N	N	15	N	N	N	70	.14	26
I89R2777	N	50	N	N	<10	N	N	10	N	N	N	50	.16	26
I89R2789	7	100	N	<5	<10	<100	N	50	N	N	N	50	.13	26
I89R2800	N	70	N	N	N	N	N	15	N	N	N	70	.23	26
I89R2819	N	10	N	N	N	N	N	20	N	N	N	30	.19	26
I89R2833	N	15	N	<5	N	N	N	15	N	<10	N	70	.26	26
I89R2876	N	N	N	N	N	N	N	N	N	N	N	10	<.05	26
I89R2896	<5	N	N	N	N	N	N	10	N	N	N	<10	.06	26
I89R2921	5	30	N	N	70	N	N	30	N	N	N	20	.17	26
I89R2940	15	200	150	7	300	N	N	100	N	N	N	70	.21	26
I89R2960	10	30	N	<5	N	N	N	70	N	N	<200	30	.23	26
I89R2980	5	20	N	N	N	N	N	15	N	N	N	20	.1	26
I89R3001	N	<10	N	N	N	N	N	N	N	N	N	N	<.05	26
I89R3020	N	N	N	N	N	N	N	<10	N	N	N	N	.09	26
I89R3045	7	<10	N	N	N	N	N	15	N	N	N	30	.07	26
I89R3068	7	N	N	N	N	N	N	10	N	N	N	15	.05	26
I89R3087	N	N	N	N	N	N	N	N	N	N	N	N	<.05	26
I89R3105	5	N	N	N	N	N	N	20	N	N	N	10	.09	26
I89R3126	10	20	N	<5	N	N	N	50	N	N	N	20	.19	26
I89R3148	10	150	N	<5	30	150	N	50	N	N	N	30	.18	26
I89R3174	10	15	N	<5	N	N	N	70	N	N	N	20	.26	26
I89R3193	10	15	N	<5	N	N	N	70	N	N	N	20	.35	26
I89R3210	30	15	N	<5	N	N	N	100	N	N	N	30	.31	26
I89R3232	15	15	N	<5	N	N	N	70	N	N	N	30	.31	26
I89R3254	7	1,500	N	N	70	N	N	15	N	N	200	15	.09	26
I89R3274	10	30	N	N	N	N	N	20	N	N	N	30	.19	26
I89R3295	20	15	N	<5	N	N	N	70	N	N	N	30	.26	26
I89R3310	30	20	N	<5	N	N	N	100	N	N	N	30	.24	26
I89R3340	15	10	N	<5	N	N	N	100	N	N	N	30	.29	26
I89R3358	20	<10	N	5	N	N	N	150	N	N	N	50	.24	26
I89R3381	15	10	N	N	N	>5,000	N	50	N	N	<200	30	.19	26
I89R3398	7	15	N	<5	N	>5,000	N	70	N	N	N	30	.19	26
I89R3426	50	20	N	5	N	>5,000	N	50	N	N	<200	50	.29	26
I89R3455	7	50	N	<5	N	>5,000	N	50	N	N	N	30	.21	26
I89R3470	5	10	N	N	N	1,500	N	30	N	N	N	10	.26	26
I89R3537	20	30	N	5	N	>5,000	N	100	N	N	N	200	.26	26
I89R3548	10	20	N	N	N	>5,000	N	30	N	N	N	150	.18	26
I89R3582	15	20	N	N	N	100	N	50	N	N	N	70	.31	26
I89R3614	10	15	N	<5	N	<100	N	50	N	N	N	100	.15	26

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 189, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I89R3635	37 12 52	89 6 31	.07	1	.7	.3	N	.2	N	N	N	20
I89R3653	37 12 52	89 6 31	.05	1.5	1.5	.5	N	.2	N	N	N	30
I89R3675	37 12 52	89 6 31	N	1.5	1	.3	N	.2	N	N	N	30
I89R3694	37 12 52	89 6 31	1.5	2	5	1	N	.3	N	N	N	50
I89R3722	37 12 52	89 6 31	.15	3	3	.5	N	.2	N	N	N	50
I89R3741	37 12 52	89 6 31	.1	5	3	1	N	.3	N	N	N	30
I89R3760	37 12 52	89 6 31	<.05	2	1.5	1	N	.3	N	N	N	20
I89R3778	37 12 52	89 6 31	15	1.5	7	.3	N	.1	N	N	N	20
I89R3802	37 12 52	89 6 31	10	2	7	.7	N	.15	N	N	N	30
I89R3819	37 12 52	89 6 31	.2	5	3	.5	N	.3	N	N	N	70
I89R3836	37 12 52	89 6 31	1	2	5	.7	N	.2	N	N	N	50
I89R3855	37 12 52	89 6 31	.1	5	3	.7	N	.3	N	N	N	50
I89R3872	37 12 52	89 6 31	.07	3	3	.5	N	.2	N	N	N	30

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I89R3635	1,000	N	N	N	N	15	20	15	N	N	10	N	N
I89R3653	500	N	N	N	N	30	10	30	N	N	<10	N	N
I89R3675	300	N	N	N	N	20	7	20	N	N	<10	N	N
I89R3694	500	N	N	N	<10	100	30	70	N	N	30	7	N
I89R3722	200	N	N	N	<10	70	50	50	N	N	20	5	N
I89R3741	300	N	N	N	10	100	50	70	N	N	20	15	N
I89R3760	200	N	N	N	10	70	30	50	N	N	20	7	N
I89R3778	100	N	N	N	<10	15	20	10	N	N	100	<5	N
I89R3802	150	N	N	N	<10	30	10	20	N	N	100	N	N
I89R3819	200	<1	N	N	10	70	50	50	N	N	30	5	N
I89R3836	150	N	N	N	10	70	20	50	N	N	20	<5	N
I89R3855	200	N	N	N	20	100	30	100	N	N	50	7	N
I89R3872	150	N	N	N	10	70	20	70	N	N	30	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I89R3635	7	<10	N	N	N	N	N	30	N	N	N	200	.1	26
I89R3653	7	10	N	N	N	N	N	50	N	N	N	150	.16	26
I89R3675	5	N	N	N	N	N	N	50	N	N	N	150	.12	26
I89R3694	30	300	N	<5	15	N	N	70	N	N	N	200	.15	26
I89R3722	20	200	N	<5	<10	N	N	50	N	N	N	50	.14	31
I89R3741	30	1,500	N	<5	50	N	N	50	N	N	N	70	.11	31
I89R3760	20	70	N	<5	N	N	N	70	N	N	N	70	.12	31
I89R3778	10	1,000	N	<5	30	100	N	15	N	N	N	20	.05	31
I89R3802	15	15	N	5	N	N	N	20	N	N	N	50	.06	31
I89R3819	30	150	N	5	N	N	N	50	N	N	N	150	.08	31
I89R3836	20	10	N	5	N	N	N	50	N	N	N	70	.08	31
I89R3855	30	20	N	5	N	N	N	70	N	N	N	70	.08	31
I89R3872	20	15	N	<5	N	N	N	50	N	N	N	50	.08	31

TABLE 22--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 190, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I90R0355	37 8 41	89 6 38	N	.2	N	N	N	.007	N	N	N	10
I90R0375	37 8 41	89 6 38	N	.3	N	N	N	.015	N	N	N	<10
I90R0395	37 8 41	89 6 38	N	<.05	N	N	N	.005	N	N	N	10
I90R0420	37 8 41	89 6 38	N	.05	N	N	N	.005	N	N	N	10
I90R0443	37 8 41	89 6 38	N	.07	N	N	N	.005	N	N	N	10
I90R0467	37 8 41	89 6 38	N	.1	N	N	N	.007	N	N	N	<10
I90R0487	37 8 41	89 6 38	N	.05	N	N	N	.003	N	N	N	10
I90R0505	37 8 41	89 6 38	N	.5	N	N	N	.002	N	N	N	<10
I90R0525	37 8 41	89 6 38	N	N	N	N	N	N	N	N	N	10
I90R0547	37 8 41	89 6 38	N	N	N	N	N	N	N	N	N	10
I90R0563	37 8 41	89 6 38	N	N	N	N	N	N	N	N	N	15
I90R0595	37 8 41	89 6 38	N	<.05	<.02	N	N	.002	N	N	N	15
I90R0612	37 8 41	89 6 38	N	N	N	N	N	<.002	N	N	N	10
I90R0638	37 8 41	89 6 38	N	<.05	<.02	N	N	<.002	N	N	N	20
I90R0660	37 8 41	89 6 38	N	.07	N	N	N	N	N	N	N	10
I90R0680	37 8 41	89 6 38	N	N	<.02	N	N	<.002	N	N	N	15
I90R0700	37 8 41	89 6 38	N	N	<.02	N	N	.003	N	N	N	20
I90R0720	37 8 41	89 6 38	N	N	N	N	N	<.002	N	N	N	30
I90R0740	37 8 41	89 6 38	N	N	N	N	N	.002	N	N	N	15
I90R0763	37 8 41	89 6 38	N	<.05	<.02	N	N	<.002	N	N	N	20
I90R0785	37 8 41	89 6 38	N	<.05	N	N	N	.003	N	N	N	30
I90R0808	37 8 41	89 6 38	N	<.05	N	N	N	.007	N	N	N	15
I90R0830	37 8 41	89 6 38	N	.05	N	N	N	.002	N	N	N	15
I90R0850	37 8 41	89 6 38	N	N	N	N	N	.005	N	N	N	10
I90R0870	37 8 41	89 6 38	N	.07	N	N	N	.007	N	N	N	15
I90R0890	37 8 41	89 6 38	N	.07	<.02	N	N	.01	N	N	N	20
I90R0910	37 8 41	89 6 38	N	N	N	N	N	.007	N	N	N	20
I90R0930	37 8 41	89 6 38	N	N	N	N	N	.007	N	N	N	15
I90R0952	37 8 41	89 6 38	N	<.05	.02	N	N	.015	N	N	N	20
I90R0975	37 8 41	89 6 38	N	.05	N	N	N	.01	N	N	N	15
I90R0995	37 8 41	89 6 38	N	N	<.02	N	N	.015	N	N	N	30
I90R1015	37 8 41	89 6 38	N	N	<.02	N	N	.015	N	N	N	15
I90R1039	37 8 41	89 6 38	N	.05	.03	N	N	.02	N	N	N	30
I90R1060	37 8 41	89 6 38	N	<.05	.02	N	N	.02	N	N	N	20
I90R1083	37 8 41	89 6 38	N	.05	.02	N	N	.02	N	N	N	50
I90R1100	37 8 41	89 6 38	N	<.05	<.02	N	N	.015	N	N	N	15
I90R1120	37 8 41	89 6 38	N	<.05	<.02	N	N	.015	N	N	N	20
I90R1140	37 8 41	89 6 38	<.05	.05	.03	N	N	.02	N	N	N	30
I90R1160	37 8 41	89 6 38	.1	.07	.05	N	N	.015	N	N	N	15
I90R1184	37 8 41	89 6 38	5	.5	1	<.2	N	.05	N	N	N	10
I90R1208	37 8 41	89 6 38	1	.7	.7	<.2	N	.1	N	N	N	50
I90R1225	37 8 41	89 6 38	.7	1	1	.2	N	.15	N	N	N	50
I90R1245	37 8 41	89 6 38	.5	1.5	1.5	.3	N	.2	N	N	N	50
I90R1272	37 8 41	89 6 38	1.5	1.5	2	.7	N	.3	N	N	N	70
I90R1290	37 8 41	89 6 38	.3	.7	1	.3	N	.1	N	N	N	30
I90R1310	37 8 41	89 6 38	1	1	1	.2	N	.15	N	N	N	50
I90R1322	37 8 41	89 6 38	.2	.7	.7	.7	N	.2	N	N	N	70
I90R1383	37 8 41	89 6 38	.5	2	2	1.5	N	.3	N	N	N	70
I90R1403	37 8 41	89 6 38	1.5	1	1	2	N	.3	N	N	N	30
I90R1423	37 8 41	89 6 38	3	2	2	1.5	N	.3	N	N	N	70
I90R1440	37 8 41	89 6 38	.5	1.5	1.5	2	N	.3	N	N	N	30
I90R1460	37 8 41	89 6 38	.3	1.5	1.5	1	N	.2	.7	N	N	70
I90R1484	37 8 41	89 6 38	.7	2	3	1	N	.3	N	N	N	70
I90R1504	37 8 41	89 6 38	1	5	2	1.5	N	.5	N	N	N	100
I90R1532	37 8 41	89 6 38	.5	5	1.5	1.5	N	.5	N	N	N	100
I90R1552	37 8 41	89 6 38	.5	2	2	2	N	.2	N	N	N	50
I90R1573	37 8 41	89 6 38	.7	3	2	2	N	.3	N	N	N	70
I90R1593	37 8 41	89 6 38	.3	3	3	2	N	.3	N	N	N	50
I90R1612	37 8 41	89 6 38	20	1	3	.5	<.2	.1	N	N	N	30
I90R1632	37 8 41	89 6 38	.7	.5	.3	<.2	N	.05	N	N	N	20

TABLE 22--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 190, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I90R0355	<20	N	N	N	N	N	5	N	N	<50	N	N	N
I90R0375	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0395	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0420	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0443	N	N	N	N	<10	N	N	N	N	N	N	N	N
I90R0467	N	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0487	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0505	N	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0525	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0547	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0563	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0595	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0612	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0638	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0660	N	N	N	N	10	N	N	N	N	N	N	N	N
I90R0680	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0700	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0720	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0740	N	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0763	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0785	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R0808	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0830	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0850	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0870	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0890	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0910	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R0930	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R0952	20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R0975	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R0995	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R1015	N	N	N	N	N	N	N	N	N	N	N	N	N
I90R1039	20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R1060	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R1083	<20	N	N	N	N	N	N	N	N	N	N	N	N
I90R1100	N	N	N	N	N	N	<5	N	N	N	N	N	N
I90R1120	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R1140	20	N	N	N	N	N	<5	N	N	N	N	N	N
I90R1160	20	N	N	N	N	N	N	N	N	N	N	N	N
I90R1184	70	N	N	N	N	<10	5	<5	N	N	20	N	N
I90R1208	150	N	N	N	N	<10	5	N	N	N	<10	N	N
I90R1225	150	N	N	N	N	10	5	<5	N	N	<10	N	N
I90R1245	200	N	N	N	N	15	10	5	N	N	10	N	N
I90R1272	500	<1	N	N	<10	30	20	15	N	N	20	N	<20
I90R1290	100	N	N	N	N	10	10	<5	N	N	<10	N	N
I90R1310	200	N	N	N	N	10	20	<5	N	N	15	N	N
I90R1322	300	<1	N	N	N	20	7	5	N	N	<10	N	N
I90R1383	500	<1	N	N	<10	50	15	20	N	<50	50	N	N
I90R1403	700	1.5	N	N	N	20	5	7	N	N	10	N	<20
I90R1423	700	1	N	N	<10	50	15	30	N	N	50	N	N
I90R1440	500	<1	N	N	<10	70	7	20	N	N	15	N	<20
I90R1460	500	<1	N	N	<10	20	5	10	N	N	20	N	N
I90R1484	700	1	N	N	20	50	20	20	N	N	50	N	<20
I90R1504	700	1	N	N	15	70	10	30	N	N	100	N	<20
I90R1532	700	1	N	N	15	70	15	15	N	N	100	N	<20
I90R1552	500	1.5	N	N	10	30	15	20	N	N	70	N	N
I90R1573	700	1.5	N	N	10	50	30	20	N	<50	100	N	<20
I90R1593	500	<1	N	N	30	70	20	30	N	N	70	<5	N
I90R1612	700	N	N	N	10	15	N	7	N	<50	200	N	N
I90R1632	70	N	N	N	N	N	<5	N	N	N	<10	N	N

TABLE 22--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 190, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
190R0355	<5	50	N	N	N	N	N	N	N	N	N	20	<.05	10
190R0375	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0395	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0420	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0443	5	N	N	N	N	N	N	N	N	N	N	15	<.05	10
190R0467	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0487	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0505	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0525	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0547	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0563	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0595	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0612	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0638	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0660	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0680	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0700	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
190R0720	<5	N	N	N	N	N	N	N	N	N	<200	N	<.05	10
190R0740	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0763	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0785	5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0808	5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0830	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0850	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0870	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0890	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0910	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0930	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R0952	N	N	N	N	N	N	N	<10	N	N	N	10	<.05	10
190R0975	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
190R0995	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
190R1015	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R1039	<5	N	N	N	N	N	N	<10	N	N	N	50	<.05	10
190R1060	<5	N	N	N	N	N	N	10	N	N	N	15	<.05	10
190R1083	<5	N	N	N	N	N	N	N	N	N	N	20	<.05	10
190R1100	N	N	N	N	N	N	N	N	N	N	N	15	<.05	10
190R1120	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R1140	<5	N	N	N	N	N	N	<10	N	N	N	30	<.05	10
190R1160	10	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
190R1184	7	N	N	N	N	N	N	15	N	N	N	20	<.05	10
190R1208	<5	N	N	N	N	N	N	15	N	N	N	70	<.05	10
190R1225	<5	N	N	N	N	N	N	20	N	N	N	70	<.05	10
190R1245	7	N	N	<5	N	N	N	30	N	N	N	70	.05	10
190R1272	15	N	N	5	N	N	N	70	N	N	N	150	.06	10
190R1290	5	<10	N	N	N	N	N	30	N	N	N	30	<.05	10
190R1310	5	N	N	<5	N	N	N	20	N	N	N	30	<.05	10
190R1322	<5	N	N	<5	N	N	N	30	N	N	N	70	<.05	15
190R1383	10	<10	N	5	N	N	N	50	N	<10	N	150	.05	15
190R1403	<5	N	N	<5	N	N	N	30	N	<10	N	500	.06	15
190R1423	20	<10	N	5	N	N	N	50	N	<10	N	100	.07	15
190R1440	15	N	N	7	N	N	N	30	N	10	N	200	.06	15
190R1460	10	N	N	5	N	N	N	50	N	N	N	70	.06	15
190R1484	20	<10	N	7	N	N	N	70	N	<10	N	150	.08	15
190R1504	20	N	N	7	N	N	N	70	N	<10	N	100	.06	15
190R1532	30	N	N	7	N	N	N	70	N	<10	N	150	.08	15
190R1552	15	<10	N	5	N	N	N	50	N	N	N	30	.08	15
190R1573	20	N	N	7	N	N	N	50	N	10	N	100	.07	15
190R1593	30	<10	N	7	N	N	N	50	N	<10	N	100	.07	15
190R1612	15	100	N	5	N	<100	N	15	N	10	N	20	.06	15
190R1632	5	N	N	N	N	N	N	15	N	N	N	10	<.05	15

TABLE 22--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 190, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I90R1652	37 8 41	89 6 38	20	.5	3	.2	N	.02	N	N	N	10
I90R1673	37 8 41	89 6 38	10	2	5	.7	N	.15	N	N	N	50
I90R1897	37 8 41	89 6 38	.05	3	.5	.2	N	.2	N	N	N	70
I90R1920	37 8 41	89 6 38	.3	20	.15	N	N	.07	.5	1,500	N	N
I90R1941	37 8 41	89 6 38	.3	10	.05	N	N	.05	.7	500	N	15
I90R1961	37 8 41	89 6 38	15	3	10	N	<.2	.01	N	N	N	<10
I90R1984	37 8 41	89 6 38	.2	5	.07	N	N	.02	N	<200	N	10
I90R2005	37 8 41	89 6 38	.15	7	1	.2	<.2	.15	N	N	N	50
I90R2025	37 8 41	89 6 38	.2	5	.5	N	N	.07	N	N	N	15
I90R2046	37 8 41	89 6 38	.15	2	.1	N	N	.02	N	N	N	10
I90R2062	37 8 41	89 6 38	.3	2	5	1	N	.15	N	N	N	70
I90R2088	37 8 41	89 6 38	.05	2	5	<.2	N	.15	N	N	N	50
I90R2129	37 8 41	89 6 38	.2	2	3	.5	N	.1	N	N	N	30
I90R2136	37 8 41	89 6 38	2	1.5	5	.3	N	.15	N	N	N	50
I90R2163	37 8 41	89 6 38	.15	1	.2	N	N	.05	N	N	N	<10
I90R2179	37 8 41	89 6 38	.15	5	1.5	<.2	N	.2	N	N	N	15
I90R2189	37 8 41	89 6 38	.1	7	2	.7	N	.5	N	N	N	70

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I90R1652	30	N	N	N	N	<10	10	<5	N	N	200	N	N
I90R1673	500	<1	N	N	<10	20	15	15	N	N	200	N	N
I90R1897	200	1	N	N	<10	15	20	15	N	N	50	<5	N
I90R1920	>5,000	N	N	N	50	<10	500	N	N	N	N	20	N
I90R1941	2,000	N	N	N	20	N	500	N	N	N	<10	7	N
I90R1961	300	N	N	N	N	N	20	N	N	N	300	<5	N
I90R1984	1,500	N	N	N	10	N	30	N	N	N	<10	N	N
I90R2005	1,000	N	N	N	<10	20	150	N	N	70	15	<5	<20
I90R2025	5,000	N	N	N	N	N	15	N	N	N	30	N	N
I90R2046	30	N	N	N	N	N	20	N	N	N	10	N	N
I90R2062	700	1	N	N	N	<10	15	50	N	N	50	N	N
I90R2088	70	<1	N	N	N	N	<5	20	N	N	10	N	N
I90R2129	5,000	N	N	N	N	700	15	10	N	N	30	5	<20
I90R2136	>5,000	<1	N	N	N	N	10	15	N	50	20	N	N
I90R2163	70	N	N	N	N	N	10	N	N	N	<10	N	N
I90R2179	>5,000	N	20	N	N	700	1,000	5	N	N	50	7	20
I90R2189	200	1	N	N	15	50	20	20	N	N	100	5	<20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I90R1652	N	N	N	N	N	N	N	20	N	N	N	<10	.06	15
I90R1673	15	50	N	<5	N	N	N	50	N	<10	N	30	.08	15
I90R1897	20	10	N	<5	N	N	N	70	N	N	N	70	.05	25
I90R1920	200	2,000	N	N	N	100	N	15	N	N	2,000	10	<.05	25
I90R1941	150	100	N	N	N	150	N	10	70	N	2,000	50	<.05	25
I90R1961	15	150	N	N	N	N	N	<10	N	<10	<200	N	.05	25
I90R1984	30	20	N	N	N	100	N	N	N	N	3,000	50	<.05	25
I90R2005	15	20	N	N	N	2,000	N	20	N	<10	300	30	--	25
I90R2025	15	2,000	200	N	N	N	N	<10	N	N	500	500	<.05	25
I90R2046	10	N	N	N	N	N	N	10	N	N	N	<10	<.05	25
I90R2062	5	70	N	<5	N	N	N	30	N	N	N	70	.25	25
I90R2088	N	15	N	<5	N	N	N	50	N	<10	N	50	.51	25
I90R2129	<5	15	N	N	N	N	N	30	200	N	N	50	.23	25
I90R2136	N	100	N	<5	N	300	N	50	N	<10	N	70	.51	25
I90R2163	7	N	N	N	N	N	N	<10	N	N	1,500	20	<.05	25
I90R2179	7	20,000	5,000	N	>1,000	N	N	20	1,000	N	N	50	.19	25
I90R2189	30	<10	N	5	N	N	N	100	150	<10	N	100	.13	25

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I91, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I91R0142	37 7 18	89 13 46	N	.7	N	N	N	.007	N	N	N	20
I91R0185	37 7 18	89 13 46	N	.15	.02	N	N	.015	N	N	N	50
I91R0203	37 7 18	89 13 46	N	.5	N	N	N	.003	N	N	N	15
I91R0225	37 7 18	89 13 46	N	1	<.02	N	N	.007	N	N	N	15
I91R0241	37 7 18	89 13 46	N	N	<.02	N	N	.005	N	N	N	20
I91R0270	37 7 18	89 13 46	N	.05	.02	N	N	.05	N	N	N	30
I91R0290	37 7 18	89 13 46	N	.1	.02	N	N	.01	N	N	N	15
I91R0312	37 7 18	89 13 46	N	.05	.03	N	N	.03	N	N	N	30
I91R0330	37 7 18	89 13 46	N	<.05	<.02	N	N	.01	N	N	N	10
I91R0350	37 7 18	89 13 46	N	<.05	.02	N	N	.02	N	N	N	50
I91R0370	37 7 18	89 13 46	N	.07	.02	N	N	.02	N	N	N	15
I91R0404	37 7 18	89 13 46	.15	.7	.2	N	N	.07	N	N	N	20
I91R0425	37 7 18	89 13 46	.3	.5	.3	N	N	.05	N	N	N	15
I91R0445	37 7 18	89 13 46	.5	.2	.5	N	N	.05	N	N	N	20
I91R0477	37 7 18	89 13 46	.7	.2	.5	N	N	.03	N	N	N	10
I91R0510	37 7 18	89 13 46	1	.3	.2	N	N	.05	N	N	N	20
I91R0531	37 7 18	89 13 46	5	.7	1	<.2	N	.1	N	N	N	30
I91R0550	37 7 18	89 13 46	15	1	3	<.2	N	.1	N	N	N	30
I91R0573	37 7 18	89 13 46	20	1.5	7	.2	N	.1	N	N	N	20
I91R0595	37 7 18	89 13 46	10	1.5	3	<.2	N	.15	N	N	N	30
I91R0615	37 7 18	89 13 46	3	1	1.5	<.2	N	.1	N	N	N	30
I91R0637	37 7 18	89 13 46	2	1.5	2	<.2	N	.15	N	N	N	50
I91R0660	37 7 18	89 13 46	.7	2	3	.2	N	.2	N	N	N	50
I91R0680	37 7 18	89 13 46	.5	2	3	.5	N	.2	N	N	N	50
I91R0706	37 7 18	89 13 46	.2	3	5	1	N	.2	N	N	N	30
I91R0725	37 7 18	89 13 46	.1	2	3	1	N	.2	N	N	N	30
I91R0743	37 7 18	89 13 46	.2	3	3	1	N	.3	N	N	N	50
I91R0765	37 7 18	89 13 46	.2	5	2	1.5	N	.3	N	N	N	50
I91R0785	37 7 18	89 13 46	.15	3	.7	.3	N	.15	N	N	N	20
I91R0808	37 7 18	89 13 46	.15	.2	.07	N	N	.02	N	N	N	<10
I91R0835	37 7 18	89 13 46	.2	3	1.5	.7	N	.3	N	N	N	50
I91R0853	37 7 18	89 13 46	<.05	1.5	1	1.5	N	.3	N	N	N	30
I91R1060	37 7 18	89 13 46	.05	1.5	.5	<.2	N	.15	N	N	N	30
I91R1080	37 7 18	89 13 46	.07	20	1	.3	N	.2	N	<200	N	30
I91R1100	37 7 18	89 13 46	1	2	3	1.5	N	.3	N	N	N	50
I91R1135	37 7 18	89 13 46	.15	5	1	1	N	.15	N	N	N	15
I91R1170	37 7 18	89 13 46	.1	20	.3	N	N	.07	3	200	N	N
I91R1190	37 7 18	89 13 46	.15	3	1.5	.7	N	.2	N	N	N	50
I91R1214	37 7 18	89 13 46	.15	7	.5	N	N	.1	N	N	N	30
I91R1235	37 7 18	89 13 46	20	.3	5	N	N	.015	N	N	N	10
I91R1258	37 7 18	89 13 46	.3	2	.7	<.2	N	.3	N	N	N	10
I91R1280	37 7 18	89 13 46	20	.5	7	<.2	N	.2	N	N	N	20
I91R1300	37 7 18	89 13 46	2	.7	1	N	N	.15	N	N	N	15
I91R1320	37 7 18	89 13 46	20	.15	5	N	N	.01	N	N	N	10
I91R1340	37 7 18	89 13 46	5	1	.7	.2	N	.15	N	N	N	15
I91R1365	37 7 18	89 13 46	20	.5	5	N	N	.02	N	N	N	<10
I91R1385	37 7 18	89 13 46	.5	2	.7	<.2	N	.2	N	N	N	50
I91R1407	37 7 18	89 13 46	20	.5	7	N	N	.03	N	N	N	<10
I91R1427	37 7 18	89 13 46	15	2	3	.3	N	.15	N	N	N	20
I91R1447	37 7 18	89 13 46	.5	.5	.05	N	N	.02	N	N	N	N
I91R1475	37 7 18	89 13 46	20	.1	10	N	N	.01	N	N	N	N
I91R1494	37 7 18	89 13 46	20	.1	5	N	N	.007	N	N	N	N
I91R1520	37 7 18	89 13 46	20	.2	2	N	N	.02	N	N	N	<10
I91R1536	37 7 18	89 13 46	10	.7	.7	N	N	.05	N	N	N	10
I91R1560	37 7 18	89 13 46	20	.2	5	N	N	.015	N	N	N	<10
I91R1582	37 7 18	89 13 46	20	.2	3	N	N	.015	N	N	N	<10
I91R1620	37 7 18	89 13 46	15	.5	2	<.2	N	.05	N	N	N	15
I91R1647	37 7 18	89 13 46	20	.3	3	N	N	.015	N	N	N	<10
I91R1665	37 7 18	89 13 46	1	3	1.5	.2	N	.3	N	N	N	70
I91R1696	37 7 18	89 13 46	20	.2	10	N	N	.01	N	N	N	N

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I91, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I91R0142	N	N	N	N	N	N	5	N	N	N	N	N	N
I91R0185	1,000	N	N	N	N	N	N	N	N	N	N	N	N
I91R0203	N	N	N	N	N	N	5	N	N	N	N	N	N
I91R0225	<20	N	N	N	N	N	N	N	N	N	N	N	N
I91R0241	<20	N	N	N	N	N	N	N	N	N	N	N	N
I91R0270	<20	N	N	N	N	N	N	N	N	N	N	N	N
I91R0290	N	N	N	N	N	N	N	N	N	N	N	N	N
I91R0312	20	N	N	N	N	N	<5	N	N	N	N	N	N
I91R0330	N	N	N	N	N	N	N	N	N	N	N	N	N
I91R0350	<20	N	N	N	N	N	N	N	N	N	N	N	N
I91R0370	<20	N	N	N	<10	N	<5	N	N	N	N	N	N
I91R0404	30	N	N	N	10	N	5	N	N	N	<10	N	N
I91R0425	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I91R0445	30	N	N	N	N	N	5	N	N	N	<10	N	N
I91R0477	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I91R0510	30	N	N	N	N	N	5	N	N	N	<10	N	N
I91R0531	50	N	N	N	N	<10	7	5	N	N	10	N	N
I91R0550	70	N	N	N	N	<10	7	<5	N	N	50	N	N
I91R0573	70	N	N	N	N	20	5	10	N	<50	100	N	N
I91R0595	50	N	N	N	N	10	10	10	N	N	30	N	N
I91R0615	70	N	N	N	N	<10	7	5	N	N	30	N	N
I91R0637	100	N	N	N	N	15	10	15	N	N	50	N	N
I91R0660	150	<1	N	N	<10	20	10	20	N	N	50	N	N
I91R0680	150	<1	N	N	<10	30	7	30	N	<50	30	N	N
I91R0706	300	N	N	N	10	50	7	30	N	N	50	N	N
I91R0725	200	<1	N	N	10	30	5	30	N	N	20	N	N
I91R0743	300	1	N	N	15	30	30	20	N	N	70	N	N
I91R0765	300	<1	N	N	15	50	<5	30	N	N	50	N	N
I91R0785	300	N	N	N	15	<10	50	<5	N	N	20	N	N
I91R0808	<20	N	N	N	N	N	N	N	N	N	N	N	N
I91R0835	200	<1	N	N	10	20	10	30	N	N	70	N	<20
I91R0853	200	<1	N	N	<10	10	10	5	N	N	50	N	<20
I91R1060	150	N	N	N	N	<10	15	<5	N	N	30	N	N
I91R1080	200	1	N	N	15	20	70	N	N	<50	100	20	<20
I91R1100	300	1.5	N	N	10	20	15	20	N	<50	200	N	<20
I91R1135	200	<1	N	N	10	10	10	5	N	N	100	<5	N
I91R1170	70	N	N	N	10	N	50	N	N	N	100	50	N
I91R1190	150	1	N	N	<10	30	15	30	N	N	50	5	N
I91R1214	50	N	N	N	<10	<10	7	<5	N	N	15	7	N
I91R1235	<20	N	N	N	N	N	N	N	N	N	150	N	N
I91R1258	20	N	N	N	<10	<10	7	15	N	N	15	N	N
I91R1280	30	N	N	N	N	10	<5	20	N	N	15	N	N
I91R1300	20	N	N	N	N	N	<5	<5	N	N	<10	N	N
I91R1320	N	N	N	N	N	N	N	N	N	N	10	N	N
I91R1340	20	N	N	N	N	<10	5	20	N	N	<10	5	N
I91R1365	<20	N	N	N	N	N	N	N	N	N	50	N	N
I91R1385	200	N	N	N	N	15	15	20	N	N	30	N	N
I91R1407	<20	N	N	N	N	<10	N	<5	N	N	10	N	N
I91R1427	150	N	N	N	N	20	15	30	N	N	50	N	N
I91R1447	20	N	N	N	N	N	7	N	N	N	<10	N	N
I91R1475	N	N	N	N	N	N	N	N	N	N	30	N	N
I91R1494	N	N	N	N	N	N	N	N	N	N	<10	N	N
I91R1520	<20	N	N	N	N	N	<5	<5	N	N	10	N	N
I91R1536	<20	N	N	N	N	N	5	N	N	N	10	N	N
I91R1560	N	N	N	N	N	N	N	N	N	N	15	N	N
I91R1582	N	N	N	N	N	N	N	N	N	N	15	N	N
I91R1620	30	N	N	N	N	30	<5	15	N	N	20	N	N
I91R1647	30	N	N	N	N	<10	N	<5	N	N	10	N	N
I91R1665	500	<1	N	N	10	70	30	50	N	N	100	5	N
I91R1696	<20	N	N	N	N	N	N	N	N	N	<10	N	N

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I91, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I91R0142	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I91R0185	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I91R0203	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I91R0225	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I91R0241	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I91R0270	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I91R0290	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I91R0312	N	N	N	N	N	N	N	<10	N	N	N	10	<.05	10
I91R0330	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I91R0350	N	N	N	N	N	N	N	N	N	N	N	15	<.05	10
I91R0370	7	N	N	N	N	N	N	<10	N	N	N	15	<.05	10
I91R0404	20	N	N	N	N	N	N	10	N	<10	N	20	<.05	10
I91R0425	5	N	N	N	N	N	N	<10	N	N	N	15	<.05	10
I91R0445	<5	N	N	N	N	N	N	10	N	N	N	20	<.05	10
I91R0477	7	N	N	N	N	N	N	N	N	N	N	15	<.05	10
I91R0510	10	N	N	N	N	N	N	<10	N	N	N	15	<.05	10
I91R0531	5	N	N	N	N	N	N	20	N	N	N	50	<.05	10
I91R0550	7	N	N	<5	N	N	N	20	N	<10	N	70	<.05	10
I91R0573	7	N	N	<5	N	<100	N	20	N	10	N	50	.05	10
I91R0595	7	N	N	<5	N	N	N	30	N	<10	N	50	.05	10
I91R0615	7	N	N	<5	N	N	N	30	N	N	N	30	<.05	10
I91R0637	10	N	N	5	N	N	N	50	N	N	N	30	.07	10
I91R0660	15	N	N	5	N	N	N	70	N	N	N	30	.08	15
I91R0680	15	N	N	7	N	N	N	70	N	N	N	20	.09	15
I91R0706	20	N	N	5	N	N	N	50	N	<10	N	50	.09	15
I91R0725	15	N	N	7	N	N	N	70	N	<10	N	50	.1	15
I91R0743	20	<10	N	5	N	N	N	70	N	<10	N	70	.08	15
I91R0765	30	N	N	5	N	N	N	70	N	<10	N	70	.05	15
I91R0785	20	15	N	<5	N	N	N	20	N	N	N	30	<.05	15
I91R0808	N	N	N	N	N	N	N	N	N	N	N	N	<.05	15
I91R0835	15	10	N	5	N	N	N	70	N	<10	N	70	.05	15
I91R0853	5	<10	N	<5	N	N	N	50	N	<10	N	100	<.05	22
I91R1060	5	70	N	N	N	N	N	30	N	N	N	50	<.05	25
I91R1080	70	30	N	5	N	N	N	70	N	10	N	70	.11	25
I91R1100	10	15	N	7	N	N	N	50	N	10	N	100	.06	25
I91R1135	20	10	N	<5	N	N	N	30	N	<10	N	70	<.05	25
I91R1170	30	N	N	N	N	N	N	10	N	N	700	30	<.05	25
I91R1190	10	<10	N	<5	N	N	N	50	N	N	N	100	.14	25
I91R1214	15	N	N	N	N	N	N	15	N	N	<200	20	.07	26
I91R1235	<5	N	N	N	N	300	N	<10	N	N	N	<10	<.05	26
I91R1258	5	<10	N	<5	N	N	N	30	N	N	<200	70	.09	26
I91R1280	7	<10	N	<5	N	100	N	20	N	N	N	50	.1	26
I91R1300	7	N	N	N	N	N	N	15	N	N	N	70	.07	26
I91R1320	N	N	N	N	N	150	N	<10	N	N	N	N	<.05	26
I91R1340	7	<10	N	N	N	N	N	20	N	N	N	30	.13	26
I91R1365	<5	1,000	N	N	N	100	N	<10	N	N	N	<10	.05	26
I91R1385	10	200	N	<5	N	N	N	50	N	N	N	30	.14	26
I91R1407	N	20	N	N	N	150	N	<10	N	N	N	<10	.06	26
I91R1427	10	30	N	<5	N	<100	N	30	N	N	N	15	.31	26
I91R1447	<5	30	N	N	N	N	N	N	N	N	<200	N	.52	26
I91R1475	N	N	N	N	N	200	N	N	N	N	N	N	<.05	26
I91R1494	N	150	N	N	N	100	N	N	N	N	N	N	.05	26
I91R1520	<5	N	N	N	N	100	N	N	N	N	N	<10	.05	26
I91R1536	5	N	N	N	N	N	N	10	N	N	N	<10	.27	26
I91R1560	N	N	N	N	N	200	N	<10	N	N	N	<10	.05	26
I91R1582	N	N	N	N	N	150	N	<10	N	N	N	N	<.05	26
I91R1620	5	<10	N	<5	N	100	N	15	N	N	N	10	.12	26
I91R1647	<5	N	N	N	N	150	N	<10	N	N	N	<10	.1	26
I91R1665	30	10	N	5	N	N	N	70	N	N	N	50	.29	26
I91R1696	N	N	N	N	N	150	N	N	N	N	N	N	.06	26

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 191, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I91R1715	37 7 18	89 13 46	15	1.5	10	<.2	N	.1	N	N	N	15
I91R1740	37 7 18	89 13 46	20	.15	7	N	N	.007	N	N	N	N
I91R1762	37 7 18	89 13 46	2	5	2	.3	N	.2	N	N	N	30
I91R1785	37 7 18	89 13 46	15	2	3	.2	N	.15	N	N	N	30
I91R1804	37 7 18	89 13 46	20	.5	2	N	N	.05	N	N	N	15
I91R1825	37 7 18	89 13 46	1	2	2	.5	N	.3	N	N	N	70
I91R1847	37 7 18	89 13 46	1	5	1.5	.2	N	.15	N	N	N	70
I91R1868	37 7 18	89 13 46	3	2	2	1	N	.2	N	N	N	20
I91R1891	37 7 18	89 13 46	1.5	3	2	.7	N	.3	N	N	N	100
I91R1913	37 7 18	89 13 46	15	1.5	7	.3	N	.1	N	N	N	20
I91R1935	37 7 18	89 13 46	2	7	1	.3	N	.2	N	N	N	30
I91R1960	37 7 18	89 13 46	2	2	3	.5	N	.2	N	N	N	30
I91R1980	37 7 18	89 13 46	15	1	7	.2	N	.1	N	N	N	20
I91R2005	37 7 18	89 13 46	20	.7	10	<.2	N	.03	N	N	N	10
I91R2030	37 7 18	89 13 46	15	1	10	<.2	N	.07	N	N	N	15
I91R2045	37 7 18	89 13 46	7	1	7	.2	N	.07	N	N	N	15
I91R2067	37 7 18	89 13 46	10	1	7	.2	N	.05	N	N	N	20
I91R2093	37 7 18	89 13 46	15	.5	10	<.2	N	.03	N	N	N	10
I91R2111	37 7 18	89 13 46	.15	2	1	<.2	N	.2	N	N	N	50
I91R2131	37 7 18	89 13 46	10	2	10	.2	N	.15	N	N	N	30
I91R2152	37 7 18	89 13 46	1	2	3	.3	N	.2	N	N	N	70
I91R2173	37 7 18	89 13 46	20	1	7	.2	N	.1	N	N	N	50
I91R2204	37 7 18	89 13 46	2	1.5	2	.7	N	.2	N	N	N	30
I91R2240	37 7 18	89 13 46	5	5	5	.3	N	.2	N	N	N	50
I91R2257	37 7 18	89 13 46	.15	2	2	.3	N	.3	N	N	N	70
I91R2275	37 7 18	89 13 46	.2	2	2	.5	N	.2	N	N	N	50
I91R2295	37 7 18	89 13 46	10	2	5	.3	N	.1	N	N	N	50
I91R2315	37 7 18	89 13 46	.07	2	1	.2	N	.2	N	N	N	70
I91R2456	37 7 18	89 13 46	N	.7	.07	N	N	.03	N	N	N	N
I91R2481	37 7 18	89 13 46	N	1	.07	N	N	.03	N	N	N	<10
I91R2501	37 7 18	89 13 46	N	.2	.03	N	N	.02	N	N	N	N
I91R2525	37 7 18	89 13 46	.07	.3	.15	N	N	.02	N	N	N	N
I91R2541	37 7 18	89 13 46	.1	.3	.2	N	N	.03	N	N	N	<10
I91R2555	37 7 18	89 13 46	15	.7	10	N	N	.07	N	N	N	<10
I91R2575	37 7 18	89 13 46	10	1	7	N	N	.1	N	N	N	30
I91R2595	37 7 18	89 13 46	.1	1	.7	N	N	.15	N	N	N	30
I91R2612	37 7 18	89 13 46	<.05	.3	.15	N	N	.05	N	N	N	N
I91R2643	37 7 18	89 13 46	2	.2	3	N	N	.015	N	N	N	<10
I91R2664	37 7 18	89 13 46	<.05	1	.7	N	N	.05	N	N	N	15
I91R2684	37 7 18	89 13 46	.05	1.5	1	N	N	.1	N	N	N	20
I91R2700	37 7 18	89 13 46	.15	1	1.5	N	N	.1	N	N	N	30
I91R2725	37 7 18	89 13 46	10	1	10	.2	N	.15	N	N	N	30
I91R2745	37 7 18	89 13 46	7	.5	10	<.2	N	.03	N	N	N	10
I91R2765	37 7 18	89 13 46	N	1	.2	N	N	.05	N	N	N	<10
I91R2780	37 7 18	89 13 46	5	.5	5	N	N	.02	N	N	N	N
I91R2807	37 7 18	89 13 46	.5	.3	.7	N	N	.015	N	N	N	N
I91R2819	37 7 18	89 13 46	N	1.5	.7	N	N	.1	N	N	N	15
I91R2826	37 7 18	89 13 46	<.05	2	1	<.2	N	.2	N	N	N	50
I91R2876	37 7 18	89 13 46	7	1	7	N	N	.03	N	N	N	10
I91R2884	37 7 18	89 13 46	N	.7	.3	N	N	.05	N	N	N	<10
I91R2896	37 7 18	89 13 46	<.05	.7	.1	N	N	.02	N	N	N	N
I91R2920	37 7 18	89 13 46	20	1	10	<.2	N	.07	N	N	N	20
I91R2950	37 7 18	89 13 46	N	.2	.05	N	N	.01	N	N	N	N

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I91, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I91R1715	70	N	N	N	N	10	<5	7	N	N	15	N	N
I91R1740	N	N	N	N	N	N	N	N	N	N	<10	N	N
I91R1762	200	<1	N	N	15	100	30	70	N	N	50	<5	N
I91R1785	150	<1	N	N	<10	70	15	50	N	N	30	N	N
I91R1804	20	N	N	N	N	<10	<5	<5	N	N	10	N	N
I91R1825	300	<1	N	N	15	100	50	70	N	N	50	<5	N
I91R1847	200	<1	N	N	<10	20	20	30	N	N	30	5	N
I91R1868	1,000	N	N	N	<10	20	30	30	N	N	20	<5	N
I91R1891	1,500	N	N	N	10	70	50	50	N	N	30	7	N
I91R1913	200	N	N	N	<10	30	7	15	N	N	20	<5	N
I91R1935	5,000	N	N	N	10	30	30	20	N	N	70	7	N
I91R1960	3,000	N	N	N	<10	15	20	20	N	N	20	N	N
I91R1980	500	N	N	N	<10	10	15	7	N	N	30	N	N
I91R2005	150	N	N	N	10	N	<5	<5	N	N	20	N	N
I91R2030	700	N	N	N	N	10	<5	7	N	N	30	N	N
I91R2045	1,000	N	N	N	N	15	30	10	N	N	15	N	N
I91R2067	100	N	N	N	N	10	5	5	N	N	20	N	N
I91R2093	300	N	N	N	N	<10	N	<5	N	N	30	N	N
I91R2111	1,000	N	N	N	<10	20	20	10	N	N	30	N	N
I91R2131	200	N	N	N	<10	20	15	10	N	N	50	N	N
I91R2152	300	<1	N	N	10	30	20	30	N	N	30	<5	N
I91R2173	150	N	N	N	<10	20	5	10	N	N	100	5	N
I91R2204	300	N	N	N	10	50	50	50	N	N	20	7	N
I91R2240	200	N	N	N	10	70	30	20	N	N	70	<5	N
I91R2257	200	N	N	N	<10	30	30	30	N	N	15	<5	N
I91R2275	200	N	N	N	<10	70	15	30	N	N	15	<5	N
I91R2295	100	<1	N	N	10	50	15	30	N	N	70	N	N
I91R2315	200	N	N	N	<10	20	20	20	N	N	15	<5	N
I91R2456	N	N	N	N	N	N	7	N	N	N	N	N	N
I91R2481	N	N	N	N	N	N	10	N	N	N	N	N	N
I91R2501	N	N	N	N	N	N	<5	N	N	N	N	N	N
I91R2525	50	N	N	N	N	N	5	N	N	N	N	N	N
I91R2541	<20	N	N	N	N	N	5	N	N	N	N	N	N
I91R2555	<20	N	N	N	N	10	7	<5	N	N	30	N	N
I91R2575	70	N	N	N	N	20	10	5	N	N	20	N	N
I91R2595	50	N	N	N	<10	15	30	7	N	N	<10	N	N
I91R2612	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I91R2643	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I91R2664	20	N	N	N	N	<10	15	<5	N	N	N	<5	N
I91R2684	50	N	N	N	<10	15	20	7	N	N	<10	<5	N
I91R2700	1,500	N	N	N	N	15	20	10	N	N	N	<5	N
I91R2725	150	N	N	N	<10	20	15	20	N	N	20	N	N
I91R2745	150	N	N	N	N	10	5	5	N	N	10	N	N
I91R2765	>5,000	N	N	N	N	N	7	N	N	N	N	N	N
I91R2780	300	N	N	N	N	N	<5	N	N	N	<10	N	N
I91R2807	1,500	N	N	N	N	N	<5	N	N	N	N	N	N
I91R2819	1,500	N	N	N	N	<10	7	5	N	N	<10	N	N
I91R2826	1,000	N	N	N	<10	20	10	20	N	N	<10	<5	N
I91R2876	700	N	N	N	N	N	5	<5	N	N	10	N	N
I91R2884	2,000	N	N	N	N	N	<5	N	N	N	N	N	N
I91R2896	300	N	N	N	N	N	<5	N	N	N	N	N	N
I91R2920	500	N	N	N	N	10	7	5	N	N	30	N	N
I91R2950	150	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I91, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I91R1715	5	<10	N	N	N	<100	N	10	N	N	N	15	.27	26
I91R1740	N	N	N	N	N	100	N	<10	N	N	N	N	.18	26
I91R1762	30	150	N	<5	N	N	N	70	N	N	N	30	.29	26
I91R1785	20	<10	N	5	N	<100	N	50	N	N	N	20	.16	26
I91R1804	<5	N	N	N	N	200	N	15	N	N	300	<10	.07	26
I91R1825	30	<10	N	5	N	3,000	N	70	N	N	N	50	.28	30
I91R1847	10	10	N	<5	N	2,000	N	50	N	N	N	15	.27	30
I91R1868	15	<10	N	<5	N	5,000	N	30	N	N	N	20	.35	30
I91R1891	30	<10	N	5	N	>5,000	N	70	N	N	N	50	.33	30
I91R1913	5	<10	N	5	N	1,500	N	20	N	N	N	15	.33	30
I91R1935	30	20	N	<5	N	>5,000	N	30	N	N	N	70	.12	30
I91R1960	20	10	N	<5	N	>5,000	N	50	N	N	N	100	.41	30
I91R1980	7	10	N	<5	N	3,000	N	20	N	N	N	70	.43	30
I91R2005	<5	<10	N	N	N	1,000	N	10	N	N	N	20	.16	30
I91R2030	5	30	N	<5	N	5,000	N	20	N	N	N	50	.37	30
I91R2045	5	150	N	<5	N	5,000	N	15	N	N	N	30	.22	30
I91R2067	5	70	N	N	N	500	N	10	N	N	N	30	.13	30
I91R2093	<5	N	N	N	N	200	N	10	N	N	N	20	.11	30
I91R2111	7	<10	N	<5	N	3,000	N	30	N	N	N	200	.15	30
I91R2131	10	<10	N	5	N	300	N	30	N	<10	N	150	.1	30
I91R2152	15	500	N	<5	N	200	N	50	N	N	N	70	.19	30
I91R2173	7	30	N	<5	N	300	N	20	N	<10	N	30	.09	30
I91R2204	20	<10	N	<5	N	N	N	50	N	N	N	50	.12	31
I91R2240	20	15	N	5	N	N	N	50	N	N	N	100	.1	31
I91R2257	15	300	N	<5	N	N	N	70	N	N	N	70	.11	31
I91R2275	15	20	N	<5	N	N	N	50	N	N	N	100	.11	31
I91R2295	15	15	N	<5	N	N	N	30	N	N	N	20	.1	31
I91R2315	15	100	N	<5	N	N	N	50	N	N	N	150	.07	32
I91R2456	5	N	N	N	N	N	N	<10	N	N	N	20	<.05	32
I91R2481	7	N	N	N	N	N	N	10	N	N	<200	30	<.05	43
I91R2501	N	N	N	N	N	N	N	<10	N	N	200	10	<.05	43
I91R2525	<5	N	N	N	N	N	N	<10	N	N	300	10	<.05	43
I91R2541	<5	N	N	N	N	N	N	10	N	N	200	30	<.05	43
I91R2555	7	2,000	100	N	N	N	N	15	N	N	300	50	<.05	51
I91R2575	10	50	N	N	N	N	N	30	N	N	N	50	.08	51
I91R2595	15	<10	N	N	N	N	N	30	N	N	N	70	.11	51
I91R2612	<5	N	N	N	N	N	N	10	N	N	N	30	.05	51
I91R2643	<5	N	N	N	N	N	N	10	N	N	<200	10	<.05	51
I91R2664	5	200	N	N	N	N	N	30	N	N	N	300	.09	51
I91R2684	10	<10	N	N	N	N	N	50	N	N	N	30	.13	51
I91R2700	7	70	N	N	N	>5,000	N	50	N	N	N	50	.15	52
I91R2725	10	10	N	<5	N	1,500	N	50	N	N	N	70	.14	52
I91R2745	<5	<10	N	N	N	1,500	N	15	N	N	N	20	.09	53
I91R2765	5	N	N	N	N	5,000	N	15	N	N	N	70	<.05	53
I91R2780	<5	N	N	N	N	3,000	N	10	N	N	N	10	.06	53
I91R2807	N	70	N	N	N	100	N	N	N	N	N	20	<.05	53
I91R2819	5	<10	N	N	N	<100	N	30	N	N	N	50	.1	53
I91R2826	10	30	N	<5	N	150	N	50	N	N	N	70	.13	53
I91R2876	<5	10	N	N	N	N	N	10	N	N	N	20	.06	53
I91R2884	<5	N	N	N	N	N	N	10	N	N	N	30	<.05	53
I91R2896	<5	N	N	N	N	N	N	N	N	N	N	15	<.05	53
I91R2920	5	<10	N	N	N	<100	N	30	N	N	N	30	.05	53
I91R2950	N	N	N	N	N	N	N	N	N	N	N	10	<.05	53

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I92, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I92R0300	37 6 6	89 10 40	N	.5	<.02	N	N	.01	N	N	N	15
I92R0320	37 6 6	89 10 40	N	<.05	N	N	N	.003	N	N	N	30
I92R0330	37 6 6	89 10 40	N	.07	N	N	N	.002	N	N	N	20
I92R0365	37 6 6	89 10 40	N	.1	<.02	N	N	.005	N	N	N	50
I92R0375	37 6 6	89 10 40	N	.15	<.02	N	N	.002	N	N	N	50
I92R0400	37 6 6	89 10 40	N	N	N	N	N	.002	N	N	N	70
I92R0425	37 6 6	89 10 40	N	<.05	N	N	N	.003	N	N	N	50
I92R0452	37 6 6	89 10 40	N	<.05	N	N	N	.002	N	N	N	100
I92R0475	37 6 6	89 10 40	N	<.05	N	N	N	.007	N	N	N	50
I92R0495	37 6 6	89 10 40	N	.05	N	N	N	.005	N	N	N	50
I92R0517	37 6 6	89 10 40	N	<.05	N	N	N	.005	N	N	N	70
I92R0540	37 6 6	89 10 40	N	.05	<.02	N	N	.003	N	N	N	50
I92R0557	37 6 6	89 10 40	<.05	<.05	<.02	N	N	.005	N	N	N	50
I92R0590	37 6 6	89 10 40	N	<.05	N	N	N	.007	N	N	N	30
I92R0610	37 6 6	89 10 40	N	<.05	<.02	N	N	.007	N	N	N	30
I92R0630	37 6 6	89 10 40	N	.05	N	N	N	.01	N	N	N	30
I92R0655	37 6 6	89 10 40	N	<.05	N	N	N	.002	N	N	N	15
I92R0673	37 6 6	89 10 40	N	<.05	<.02	N	N	.007	N	N	N	30
I92R0700	37 6 6	89 10 40	N	<.05	<.02	N	N	.015	N	N	N	30
I92R0725	37 6 6	89 10 40	N	.07	N	N	N	.01	N	N	N	20
I92R0750	37 6 6	89 10 40	N	.07	.02	N	N	.015	N	N	N	50
I92R0778	37 6 6	89 10 40	N	.1	.02	N	N	.02	N	N	N	30
I92R0805	37 6 6	89 10 40	<.05	.07	.05	N	N	.03	N	N	N	50
I92R0825	37 6 6	89 10 40	N	.15	.03	N	N	.02	N	N	N	30
I92R0845	37 6 6	89 10 40	<.05	<.05	.03	N	N	.02	N	N	N	30
I92R0865	37 6 6	89 10 40	N	.1	.02	N	N	.02	N	N	N	30
I92R0886	37 6 6	89 10 40	N	.1	.03	N	N	.02	N	N	N	30
I92R0903	37 6 6	89 10 40	<.05	.5	.03	N	N	.015	N	N	N	20
I92R0925	37 6 6	89 10 40	<.05	.15	.03	N	N	.015	N	N	N	50
I92R0944	37 6 6	89 10 40	.15	.3	.1	N	N	.03	N	N	N	50
I92R0958	37 6 6	89 10 40	.1	.2	.1	N	N	.03	N	N	N	50
I92R0978	37 6 6	89 10 40	.1	2	.07	N	N	.03	N	N	N	30
I92R0995	37 6 6	89 10 40	.3	.5	.2	N	N	.05	N	N	N	20
I92R1020	37 6 6	89 10 40	1.5	.7	1	<.2	N	.1	N	N	N	50
I92R1045	37 6 6	89 10 40	3	1	1.5	N	N	.15	N	N	N	50
I92R1074	37 6 6	89 10 40	5	1.5	2	N	N	.07	N	N	N	30
I92R1090	37 6 6	89 10 40	3	1.5	3	<.2	N	.2	N	N	N	100
I92R1100	37 6 6	89 10 40	.7	2	1	<.2	N	.15	N	N	N	70
I92R1109	37 6 6	89 10 40	.05	.7	.15	N	N	.05	N	N	N	50
I92R1135	37 6 6	89 10 40	1	2	5	.1	N	.2	N	N	N	70
I92R1155	37 6 6	89 10 40	.3	1.5	2	.5	N	.2	N	N	N	20
I92R1180	37 6 6	89 10 40	1	2	3	.7	N	.3	N	N	N	70
I92R1200	37 6 6	89 10 40	.2	7	3	1	N	.5	N	N	N	70
I92R1226	37 6 6	89 10 40	.15	5	3	1.5	N	.5	N	N	N	50
I92R1245	37 6 6	89 10 40	.3	7	5	1	N	.3	N	N	N	50
I92R1268	37 6 6	89 10 40	.5	5	2	.3	N	.3	N	N	N	100
I92R1289	37 6 6	89 10 40	.3	.5	.1	<.2	N	.02	N	N	N	20
I92R1321	37 6 6	89 10 40	.15	2	1	1	N	.3	N	N	N	30
I92R1340	37 6 6	89 10 40	<.05	3	1.5	1	N	.5	N	N	N	70
I92R1560	37 6 6	89 10 40	.2	1.5	.7	.2	N	.2	N	N	N	30
I92R1580	37 6 6	89 10 40	<.05	7	1	.7	N	.5	N	N	N	50
I92R1600	37 6 6	89 10 40	20	.5	10	<.2	N	.02	N	N	N	<10
I92R1624	37 6 6	89 10 40	15	.15	7	N	N	.02	N	N	N	N
I92R1650	37 6 6	89 10 40	15	1	10	.3	<.2	.03	N	N	N	10
I92R1685	37 6 6	89 10 40	.7	5	2	<.2	N	.2	N	N	N	70
I92R1706	37 6 6	89 10 40	20	1.5	5	<.2	N	.15	N	N	N	<10
I92R1735	37 6 6	89 10 40	2	2	1	N	N	.05	N	N	N	<10
I92R1760	37 6 6	89 10 40	.15	15	.7	<.2	N	.1	.5	N	N	30
I92R1780	37 6 6	89 10 40	1	.15	.07	N	N	.02	N	N	N	<10
I92R1801	37 6 6	89 10 40	.5	.7	.5	<.2	N	.05	N	N	N	10

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I92, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I92R0300	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0320	N	N	N	N	N	N	N	N	N	N	N	N	N
I92R0330	N	N	N	N	N	N	N	N	N	N	N	N	N
I92R0365	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0375	<20	N	N	N	N	N	7	N	N	N	N	N	N
I92R0400	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0425	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0452	N	N	N	N	N	N	N	N	N	N	N	N	N
I92R0475	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0495	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0517	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0540	50	N	N	N	N	N	N	N	N	N	N	N	N
I92R0557	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R0590	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R0610	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0630	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0655	N	N	N	N	N	N	N	N	N	N	N	N	N
I92R0673	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0700	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R0725	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0750	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R0778	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0805	50	N	N	N	N	N	N	N	N	N	N	N	N
I92R0825	20	N	N	N	N	N	<5	N	N	N	N	N	N
I92R0845	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0865	<20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0886	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0903	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R0925	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R0944	50	N	N	N	N	N	<5	N	N	N	N	N	N
I92R0958	50	N	N	N	N	N	N	N	N	N	N	N	N
I92R0978	30	N	N	N	<10	N	<5	N	N	N	N	N	N
I92R0995	30	N	N	N	N	N	5	N	N	N	N	N	N
I92R1020	100	N	N	N	N	<10	7	<5	N	N	<10	N	N
I92R1045	150	<1	N	N	N	10	10	<5	N	N	20	N	N
I92R1074	70	N	N	N	N	10	10	5	N	<50	100	N	N
I92R1090	200	<1	N	N	<10	30	15	15	N	N	70	N	N
I92R1100	300	N	N	N	<10	10	20	7	N	N	15	N	N
I92R1109	70	N	N	N	N	N	5	N	N	N	N	N	N
I92R1135	500	1	N	N	10	70	15	20	N	N	30	N	N
I92R1155	200	<1	N	N	N	20	7	15	N	N	15	N	N
I92R1180	300	<1	N	N	10	50	15	30	N	<50	30	N	N
I92R1200	500	1	N	N	10	50	5	30	N	N	70	N	N
I92R1226	500	1	N	N	10	70	20	30	N	N	70	N	N
I92R1245	300	<1	N	N	15	50	30	30	N	N	100	N	N
I92R1268	1,000	<1	N	N	10	15	15	20	N	N	50	N	N
I92R1289	30	N	N	N	N	N	N	N	N	N	<10	N	N
I92R1321	100	<1	N	N	<10	10	10	15	N	N	30	N	N
I92R1340	200	<1	N	N	<10	20	20	20	N	<50	50	N	<20
I92R1560	150	N	N	N	N	<10	7	7	N	N	20	N	N
I92R1580	200	1	N	N	15	15	20	20	N	N	50	5	<20
I92R1600	<20	N	N	N	N	N	5	N	N	N	300	N	N
I92R1624	N	N	N	N	N	N	N	N	N	N	200	N	N
I92R1650	500	N	N	N	N	N	20	N	N	N	300	N	N
I92R1685	500	<1	N	N	10	50	30	50	N	50	70	N	N
I92R1706	200	N	N	N	N	N	300	N	N	N	100	N	N
I92R1735	700	N	N	N	<10	N	700	N	N	N	30	N	N
I92R1760	50	N	N	N	15	N	20	5	N	N	<10	10	N
I92R1780	20	N	N	N	N	N	N	N	N	N	N	N	N
I92R1801	20	N	N	N	N	N	<5	N	N	N	<10	N	N

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I92, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I92R0300	N	N	N	N	N	N	N	N	N	N	N	20	<.05	10
I92R0320	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0330	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0365	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0375	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0400	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0425	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0452	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0475	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0495	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I92R0517	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0540	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0557	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0590	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0610	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I92R0630	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0655	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0673	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0700	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0725	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0750	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I92R0778	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0805	N	N	N	N	N	N	N	10	N	N	N	20	<.05	10
I92R0825	N	N	N	N	N	N	N	N	N	N	N	15	<.05	10
I92R0845	N	N	N	N	N	N	N	N	N	N	N	30	<.05	10
I92R0865	N	N	N	N	N	N	N	N	N	N	N	15	<.05	10
I92R0886	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0903	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0925	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I92R0944	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	10
I92R0958	N	N	N	N	N	N	N	N	N	N	N	10	<.05	10
I92R0978	15	N	N	N	N	N	N	<10	N	N	N	20	<.05	10
I92R0995	<5	N	N	N	N	N	N	20	N	N	N	20	<.05	10
I92R1020	<5	N	N	N	N	N	N	30	N	N	N	20	<.05	10
I92R1045	5	N	N	<5	N	N	N	50	N	N	N	30	<.05	10
I92R1074	10	N	N	<5	N	N	N	30	N	N	N	15	<.05	15
I92R1090	7	N	N	5	N	N	N	70	N	<10	N	70	<.05	15
I92R1100	15	N	N	<5	N	N	N	30	N	<10	N	70	<.05	15
I92R1109	<5	N	N	N	N	N	N	15	N	N	<200	20	<.05	15
I92R1135	15	N	N	5	N	N	N	50	N	<10	N	70	.06	15
I92R1155	5	N	N	<5	N	N	N	50	N	N	N	30	.07	15
I92R1180	15	<10	N	5	N	N	N	70	N	<10	N	50	.07	15
I92R1200	10	N	N	7	N	N	N	100	N	N	N	70	.06	15
I92R1226	15	N	N	10	N	N	N	100	N	10	N	100	.07	15
I92R1245	20	300	N	5	N	N	N	70	N	<10	N	70	.07	15
I92R1268	15	70	N	<5	N	N	N	70	N	N	N	50	.06	15
I92R1289	<5	N	N	N	N	N	N	10	N	N	N	15	<.05	15
I92R1321	5	N	N	<5	N	N	N	50	N	N	N	70	.05	15
I92R1340	7	N	N	7	N	N	N	100	N	<10	N	150	.06	22
I92R1560	5	N	N	<5	N	N	N	50	N	N	N	30	<.05	25
I92R1580	30	10	N	5	N	N	N	70	N	<10	300	150	<.05	25
I92R1600	N	<10	N	N	N	N	N	<10	N	N	N	<10	<.05	25
I92R1624	N	10	N	N	N	N	N	N	N	N	N	<10	<.05	25
I92R1650	N	10	N	N	N	N	N	<10	N	15	N	10	<.05	25
I92R1685	50	500	N	<5	N	N	N	30	N	N	N	30	.13	25
I92R1706	30	150	N	N	N	<100	N	15	N	N	N	50	<.05	26
I92R1735	20	200	N	N	N	N	N	10	N	N	500	70	.05	26
I92R1760	20	N	N	<5	N	N	N	15	N	N	N	50	.1	26
I92R1780	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	26
I92R1801	5	N	N	N	N	N	N	<10	N	N	N	70	.05	26

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 192, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
192R1820	37 6 6	89 10 40	.1	.7	.1	N	N	.02	N	N	N	10
192R1840	37 6 6	89 10 40	20	.2	5	N	N	.03	N	N	N	10
192R1860	37 6 6	89 10 40	20	.3	3	N	N	.02	N	N	N	<10
192R1882	37 6 6	89 10 40	15	.2	3	N	N	.02	N	N	N	N
192R1900	37 6 6	89 10 40	3	3	1	.3	N	.2	N	N	N	30
192R1920	37 6 6	89 10 40	15	2	5	.2	N	.1	N	N	N	20
192R1940	37 6 6	89 10 40	20	.3	7	N	N	.015	N	N	N	N
192R1965	37 6 6	89 10 40	.7	.3	.03	N	N	.01	N	N	N	<10
192R1985	37 6 6	89 10 40	20	1	7	N	N	.015	N	N	N	N
192R2005	37 6 6	89 10 40	20	.2	5	N	N	.015	N	N	N	N
192R2028	37 6 6	89 10 40	.7	.5	.1	N	N	.02	<.5	N	N	15
192R2046	37 6 6	89 10 40	20	.5	7	N	N	.015	N	N	N	<10
192R2065	37 6 6	89 10 40	2	1.5	.5	<.2	N	.05	N	N	N	15
192R2085	37 6 6	89 10 40	20	.3	5	N	N	.02	N	N	N	<10
192R2105	37 6 6	89 10 40	15	1.5	3	.3	N	.07	N	N	N	15
192R2125	37 6 6	89 10 40	2	3	3	.2	N	.15	N	N	N	70
192R2150	37 6 6	89 10 40	.5	2	2	.2	N	.15	N	N	N	50
192R2170	37 6 6	89 10 40	.7	5	3	.3	N	.3	N	N	N	70
192R2192	37 6 6	89 10 40	20	.7	5	<.2	N	.03	N	N	N	15
192R2215	37 6 6	89 10 40	20	2	10	<.2	N	.07	N	N	N	50
192R2235	37 6 6	89 10 40	2	7	7	.2	N	.2	N	N	N	70
192R2273	37 6 6	89 10 40	20	1	7	N	N	.05	N	N	N	20
192R2290	37 6 6	89 10 40	1	7	5	.7	N	.5	N	N	N	70
192R2310	37 6 6	89 10 40	15	1.5	7	<.2	N	.07	N	N	N	30
192R2334	37 6 6	89 10 40	20	.7	7	N	N	.03	N	N	N	15
192R2355	37 6 6	89 10 40	2	10	5	.3	N	.15	N	N	N	100
192R2377	37 6 6	89 10 40	10	5	3	.5	N	.2	N	N	N	70
192R2396	37 6 6	89 10 40	5	3	3	.7	N	.15	N	N	N	50
192R2416	37 6 6	89 10 40	1	5	5	.7	N	.5	N	N	N	150
192R2438	37 6 6	89 10 40	20	2	10	<.2	N	.05	N	N	N	50
192R2457	37 6 6	89 10 40	15	1.5	10	.2	N	.07	N	N	N	100
192R2473	37 6 6	89 10 40	1.5	20	3	.2	N	.1	N	N	N	30
192R2494	37 6 6	89 10 40	20	5	10	.3	N	.05	N	N	N	50
192R2514	37 6 6	89 10 40	3	2	7	.5	N	.15	N	N	N	30
192R2534	37 6 6	89 10 40	.7	1.5	2	.2	N	.15	N	N	N	20
192R2554	37 6 6	89 10 40	15	3	10	.5	N	.2	N	N	N	50
192R2575	37 6 6	89 10 40	10	1	7	<.2	N	.05	N	N	N	20
192R2593	37 6 6	89 10 40	10	1.5	10	.3	N	.05	N	N	N	30
192R2617	37 6 6	89 10 40	15	1	10	.3	N	.05	N	N	N	20
192R2633	37 6 6	89 10 40	5	2	5	.2	N	.1	N	N	N	30
192R2690	37 6 6	89 10 40	.2	2	3	.5	N	.3	N	N	N	50
192R2713	37 6 6	89 10 40	1.5	5	5	.7	N	.5	<.5	N	N	100
192R2733	37 6 6	89 10 40	15	2	7	.3	N	.1	N	N	N	30
192R2755	37 6 6	89 10 40	.7	5	3	.7	N	.3	N	N	N	50
192R2775	37 6 6	89 10 40	.5	2	3	.3	N	.2	N	N	N	70
192R2795	37 6 6	89 10 40	1	3	5	.5	N	.3	N	N	N	100
192R2818	37 6 6	89 10 40	.7	1.5	2	1	N	.15	N	N	N	50
192R2845	37 6 6	89 10 40	.7	3	3	.3	N	.3	N	N	N	100
192R2872	37 6 6	89 10 40	.5	3	7	.2	N	.2	N	N	N	70
192R2970	37 6 6	89 10 40	1.5	1.5	3	.3	N	.15	N	N	N	50
192R3024	37 6 6	89 10 40	<.05	2	2	N	N	.2	<.5	N	N	100
192R3034	37 6 6	89 10 40	.15	.5	.3	N	N	.03	N	N	N	10
192R3075	37 6 6	89 10 40	N	.2	.15	N	N	.02	N	N	N	<10
192R3096	37 6 6	89 10 40	<.05	.5	.3	N	N	.05	N	N	N	20
192R3119	37 6 6	89 10 40	.2	.2	.3	N	N	.02	N	N	N	<10
192R3138	37 6 6	89 10 40	.2	.5	.5	N	N	.03	N	N	N	<10
192R3155	37 6 6	89 10 40	.5	.3	1	N	N	.05	N	N	N	<10
192R3180	37 6 6	89 10 40	<.05	1.5	1	N	N	.1	N	N	N	20
192R3196	37 6 6	89 10 40	N	1	1	N	N	.1	N	N	N	15
192R3217	37 6 6	89 10 40	.05	1.5	1.5	N	N	.3	N	N	N	50

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 192, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I92R1820	30	N	N	N	N	N	N	N	N	N	N	N	N
I92R1840	<20	N	N	N	N	N	N	<5	N	N	20	N	N
I92R1860	100	N	N	N	N	<10	10	N	N	N	200	N	N
I92R1882	<20	N	N	N	N	<10	N	<5	N	N	<10	N	N
I92R1900	150	N	N	N	<10	20	15	50	N	N	50	N	N
I92R1920	70	N	N	N	N	15	7	20	N	N	20	N	N
I92R1940	N	N	N	N	N	N	<5	N	N	N	10	N	N
I92R1965	N	N	N	N	N	N	N	N	N	N	N	N	N
I92R1985	300	N	N	N	N	N	<5	N	N	N	15	N	N
I92R2005	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I92R2028	70	N	N	N	N	N	7	N	N	N	N	N	N
I92R2046	<20	N	N	N	N	<10	<5	N	N	N	10	N	N
I92R2065	30	N	N	N	N	<10	30	<5	N	N	10	N	N
I92R2085	100	N	N	N	N	<10	<5	<5	N	N	10	N	N
I92R2105	100	N	N	N	<10	30	10	20	N	N	15	N	N
I92R2125	500	<1	N	N	15	50	30	50	N	N	70	<5	N
I92R2150	1,000	N	N	N	10	50	20	50	N	N	20	7	N
I92R2170	1,000	<1	N	N	15	70	30	70	N	N	70	5	N
I92R2192	50	N	N	N	N	10	<5	5	N	N	10	N	N
I92R2215	2,000	<1	N	N	<10	20	5	10	N	N	15	N	N
I92R2235	2,000	<1	N	N	10	50	15	100	N	N	30	<5	N
I92R2273	700	N	N	N	N	20	<5	10	N	N	15	N	N
I92R2290	1,000	<1	N	N	20	200	30	100	N	N	30	<5	N
I92R2310	70	N	N	N	N	30	5	15	N	N	15	N	N
I92R2334	70	N	N	N	N	10	<5	<5	N	N	15	N	N
I92R2355	2,000	<1	N	N	10	150	20	70	N	<50	30	5	N
I92R2377	1,000	<1	N	N	10	100	30	30	N	N	50	<5	N
I92R2396	5,000	N	N	N	10	100	20	50	N	N	30	5	N
I92R2416	3,000	<1	N	N	20	150	30	70	N	N	70	7	<20
I92R2438	200	N	N	N	N	<10	<5	5	N	N	50	N	N
I92R2457	300	N	N	N	<10	15	5	10	N	N	70	N	N
I92R2473	5,000	N	N	N	<10	300	300	20	N	N	100	7	N
I92R2494	3,000	N	N	N	N	10	5	10	N	N	50	N	N
I92R2514	5,000	N	N	N	<10	15	15	30	N	N	20	N	N
I92R2534	5,000	N	N	N	N	<10	15	5	N	N	15	N	N
I92R2554	3,000	N	N	N	<10	20	15	20	N	N	50	<5	N
I92R2575	1,000	N	N	N	N	N	10	<5	N	N	20	N	N
I92R2593	150	N	N	N	N	15	7	15	N	N	50	N	N
I92R2617	150	N	N	N	N	10	5	7	N	N	50	N	N
I92R2633	1,000	N	N	N	<10	20	10	15	N	N	20	N	N
I92R2690	200	N	N	N	<10	70	20	30	N	N	15	<5	N
I92R2713	500	<1	N	N	10	70	30	30	N	N	50	20	N
I92R2733	150	N	N	N	<10	20	15	15	N	N	100	5	N
I92R2755	300	N	N	N	15	100	50	50	N	N	30	10	N
I92R2775	300	N	N	N	10	30	30	30	N	N	50	5	N
I92R2795	500	<1	N	N	10	50	30	50	N	N	50	<5	N
I92R2818	500	1	N	N	N	20	15	20	N	N	15	N	N
I92R2845	200	<1	N	N	10	50	30	30	N	N	50	<5	N
I92R2872	150	1	N	N	15	50	20	50	N	N	150	5	N
I92R2970	200	N	N	N	<10	20	20	15	N	N	15	7	N
I92R3024	20	<1	N	N	<10	50	100	20	N	N	<10	N	N
I92R3034	<20	N	N	N	N	N	15	N	N	N	<10	N	N
I92R3075	N	N	N	N	N	N	7	N	N	N	N	N	N
I92R3096	20	N	N	N	N	10	15	N	N	N	N	N	N
I92R3119	N	N	N	N	N	N	5	N	N	N	N	N	N
I92R3138	<20	N	N	N	N	N	7	N	N	N	<10	<5	N
I92R3155	30	N	N	N	N	N	10	N	N	N	N	N	N
I92R3180	100	N	N	N	<10	15	30	5	N	N	<10	10	N
I92R3196	150	N	N	N	N	20	30	7	N	N	10	5	N
I92R3217	200	N	N	N	<10	30	30	10	N	N	30	7	N

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 192, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I92R1820	<5	N	N	N	N	N	N	N	N	N	N	30	<.05	26
I92R1840	N	<10	N	N	N	100	N	<10	N	N	N	<10	<.05	26
I92R1860	<5	<10	N	N	N	150	N	10	N	N	N	<10	<.05	26
I92R1882	N	N	N	N	N	100	N	<10	N	N	N	N	<.05	26
I92R1900	10	<10	N	<5	N	N	N	50	N	N	N	30	.67	26
I92R1920	7	2,000	N	<5	N	100	N	30	N	N	N	20	.34	26
I92R1940	N	1,500	N	N	N	150	N	<10	N	N	N	<10	.17	26
I92R1965	<5	N	N	N	N	N	N	N	N	N	300	N	.22	26
I92R1985	<5	150	N	N	N	100	N	10	N	N	N	N	.27	26
I92R2005	N	10,000	200	N	50	150	N	N	N	N	N	<10	.07	26
I92R2028	7	1,500	100	N	N	N	N	N	N	N	N	<10	.06	26
I92R2046	N	3,000	<100	N	<10	200	N	<10	N	N	N	N	.2	26
I92R2065	10	500	N	N	N	N	N	15	N	N	N	10	.08	26
I92R2085	N	50	N	N	N	100	N	<10	N	N	N	N	.06	26
I92R2105	10	500	N	<5	N	<100	N	20	N	N	N	20	.18	26
I92R2125	30	10	N	5	N	N	N	100	N	N	N	30	.79	26
I92R2150	20	10	N	<5	N	N	N	70	N	N	200	30	.43	26
I92R2170	50	10	N	5	N	N	N	100	N	N	N	50	.39	26
I92R2192	7	20	N	N	N	150	N	10	N	N	N	10	.27	26
I92R2215	20	<10	N	<5	N	100	N	20	N	N	200	15	.75	26
I92R2235	30	10	N	5	N	N	N	70	N	N	<200	30	1.51	26
I92R2273	7	N	N	N	N	<100	N	15	N	N	N	10	.19	26
I92R2290	70	<10	N	7	N	N	N	100	N	N	N	20	.39	26
I92R2310	10	N	N	<5	N	<100	N	30	N	N	N	15	.37	26
I92R2334	5	N	N	N	N	500	N	20	N	N	N	10	.16	26
I92R2355	20	<10	N	7	N	>5,000	N	100	N	N	N	20	.41	26
I92R2377	20	1,500	N	5	N	>5,000	N	70	N	<10	N	30	10	26
I92R2396	15	150	N	<5	N	>5,000	N	50	N	N	N	20	4.6	26
I92R2416	30	15	N	7	N	>5,000	N	150	N	N	N	70	.42	30
I92R2438	<5	<10	N	N	N	2,000	N	15	N	N	N	10	.19	30
I92R2457	10	<10	N	<5	N	1,500	N	30	N	N	N	30	.24	30
I92R2473	15	15	N	<5	N	>5,000	N	70	N	N	<200	50	.53	30
I92R2494	5	<10	N	<5	N	>5,000	N	15	N	N	N	30	.44	30
I92R2514	15	<10	N	N	N	>5,000	N	50	N	N	N	70	1.4	30
I92R2534	10	N	N	N	N	>5,000	N	50	N	N	N	150	.33	30
I92R2554	15	<10	N	7	N	>5,000	N	70	N	<10	N	100	.75	30
I92R2575	<5	1,000	N	N	N	3,000	N	30	N	N	N	100	.43	30
I92R2593	5	<10	N	N	N	200	N	20	N	N	N	30	.44	30
I92R2617	5	<10	N	N	N	200	N	20	N	N	N	30	.12	30
I92R2633	7	2,000	N	<5	N	1,000	N	30	N	N	N	70	.83	30
I92R2690	15	200	N	<5	N	N	N	70	N	N	N	50	.18	30
I92R2713	20	1,500	N	5	N	N	N	100	N	N	N	70	.17	30
I92R2733	10	10	N	<5	N	<100	N	20	N	N	N	30	.09	31
I92R2755	20	<10	N	<5	N	N	N	100	N	N	N	70	.08	31
I92R2775	20	15	N	<5	N	N	N	50	N	N	N	150	.1	31
I92R2795	20	10	N	5	N	N	N	70	N	N	N	150	.12	31
I92R2818	10	<10	N	N	N	N	N	30	N	N	N	70	.12	31
I92R2845	30	200	N	5	N	N	N	70	N	N	N	70	.1	31
I92R2872	20	300	N	7	N	N	N	50	N	<10	N	70	.1	31
I92R2970	15	30	N	<5	N	<100	N	50	N	N	N	50	.15	32
I92R3024	30	<10	N	<5	N	N	N	100	N	N	N	70	.16	51,52
I92R3034	15	N	N	N	N	N	N	20	N	N	N	70	.12	51,52
I92R3075	5	N	N	N	N	N	N	15	N	N	N	50	.07	51,52
I92R3096	10	N	N	N	N	N	N	30	N	N	N	50	.05	51,52
I92R3119	7	150	N	N	N	N	N	15	N	N	N	15	<.05	51,52
I92R3138	<5	N	N	N	N	N	N	20	N	N	N	70	<.05	51,52
I92R3155	<5	N	N	N	N	N	N	30	N	N	N	30	<.05	51,52
I92R3180	15	30	N	N	N	N	N	70	N	N	N	50	.08	51,52
I92R3196	7	<10	N	N	N	N	N	70	N	N	N	70	.08	51,52
I92R3217	20	<10	N	<5	N	N	N	100	N	N	N	150	.12	51,52

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I92, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I92R3237	37 6 6	89 10 40	.07	1.5	1.5	N	N	.2	N	N	N	30
I92R3264	37 6 6	89 10 40	.3	1.5	1	N	N	.2	N	N	N	30
I92R3283	37 6 6	89 10 40	N	1	.7	N	N	.15	N	N	N	20
I92R3303	37 6 6	89 10 40	<.05	1	1	N	N	.15	N	N	N	30
I92R3311	37 6 6	89 10 40	.5	1.5	1.5	N	N	.2	N	N	N	50
I92R3332	37 6 6	89 10 40	.07	1.5	1	N	N	.2	N	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I92R3237	700	N	N	N	<10	30	30	7	N	N	15	<5	N
I92R3264	1,000	N	N	N	<10	15	20	<5	N	N	15	<5	N
I92R3283	1,000	N	N	N	<10	15	30	5	N	N	10	7	N
I92R3303	300	N	N	N	<10	10	15	<5	N	N	<10	5	N
I92R3311	200	N	N	N	<10	20	30	10	N	N	10	7	N
I92R3332	700	N	N	N	<10	20	20	<5	N	N	15	5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I92R3237	15	N	N	N	N	N	N	70	N	N	N	100	.14	51,52
I92R3264	10	N	N	N	N	N	N	50	N	N	N	150	.07	51,52
I92R3283	15	<10	N	N	N	N	N	50	N	N	N	70	.1	51,52
I92R3303	15	N	N	N	N	N	N	50	N	N	N	100	.1	51,52
I92R3311	15	15	N	N	N	N	N	50	N	N	N	70	.63	51,52
I92R3332	15	N	N	N	N	N	N	70	N	N	N	200	.12	51,52

TABLE 25--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 193, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I930145	37 30 57	89 26 25	.5	1	.3	.2	N	.3	N	N	N	50
I930165	37 30 57	89 26 25	1	3	1.5	1.5	N	.5	N	N	N	70
I930185	37 30 57	89 26 25	.3	1.5	1	1	N	.5	N	N	N	50
I930205	37 30 57	89 26 25	.7	2	1	1.5	N	.7	N	N	N	70
I930225	37 30 57	89 26 25	.2	5	2	1.5	N	.3	N	N	N	50
I930245	37 30 57	89 26 25	.2	2	1	1	N	.5	N	N	N	50
I930265	37 30 57	89 26 25	.3	5	1	1	N	.5	N	N	N	100
I930285	37 30 57	89 26 25	.5	5	1.5	1.5	N	.3	N	N	N	50
I930305	37 30 57	89 26 25	.2	3	1	2	N	.5	N	N	N	50
I930325	37 30 57	89 26 25	.7	5	1.5	2	N	.7	N	N	N	70
I930345	37 30 57	89 26 25	15	1.5	.5	.2	N	.1	N	N	N	20
I930365	37 30 57	89 26 25	.7	.7	.2	N	N	.07	N	N	N	20
I930385	37 30 57	89 26 25	.2	1.5	.5	1.5	N	.7	N	N	N	50
I930405	37 30 57	89 26 25	1.5	5	1	3	N	1	N	N	N	70
I930425	37 30 57	89 26 25	.07	1	.3	2	N	.7	N	N	N	50
I930445	37 30 57	89 26 25	.1	1.5	.3	1.5	N	.3	N	N	N	30
I930475	37 30 57	89 26 25	.05	2	.5	1	N	.3	N	N	N	70
I930520	37 30 57	89 26 25	.15	5	.3	.3	N	.5	N	N	N	70
I930535	37 30 57	89 26 25	20	1	10	<.2	N	.03	N	N	N	<10
I930585	37 30 57	89 26 25	.5	.5	.15	1.5	N	.05	N	N	N	N
I930625	37 30 57	89 26 25	.3	1	.15	1.5	N	.07	N	N	N	N
I930653	37 30 57	89 26 25	20	.5	3	.5	N	.07	N	N	N	15

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I930145	200	<1	N	N	N	<10	7	<5	N	N	15	N	N
I930165	500	1	N	N	N	20	30	30	N	N	70	N	N
I930185	300	<1	N	N	<10	30	20	20	N	N	30	N	N
I930205	500	1	N	N	<10	30	15	20	N	N	50	N	N
I930225	500	1	N	N	10	50	7	30	N	N	100	N	N
I930245	500	1.5	N	N	<10	30	200	30	N	N	50	N	N
I930265	500	1.5	N	N	<10	30	5	20	N	N	70	N	N
I930285	700	1	N	N	10	50	5	30	N	N	150	N	N
I930305	700	1	N	N	<10	70	5	30	N	N	70	N	N
I930325	700	1.5	N	N	20	70	30	50	N	N	100	N	N
I930345	70	N	N	N	N	<10	7	5	N	N	70	N	N
I930365	50	N	N	N	N	N	<5	N	N	N	10	N	N
I930385	300	<1	N	N	N	20	20	20	N	N	30	N	<20
I930405	500	<1	N	N	N	<10	<5	<5	N	N	50	N	<20
I930425	300	<1	N	N	N	10	5	10	N	N	15	N	<20
I930445	150	N	N	N	N	<10	10	7	N	N	20	N	N
I930475	200	1	N	N	N	20	15	15	N	N	70	N	N
I930520	300	1	N	N	<10	30	50	20	N	<50	30	<5	<20
I930535	20	N	N	N	N	N	5	N	N	N	1,000	N	N
I930585	700	N	N	N	N	N	<5	5	N	N	15	N	N
I930625	500	N	N	N	N	N	N	5	N	N	15	N	N
I930653	50	N	N	N	N	<10	5	15	N	N	300	N	N

TABLE 25--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 193, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I930145	5	N	N	N	N	N	N	30	N	N	N	70	<.05	15
I930165	10	10	N	<5	N	N	N	50	N	<10	N	100	.07	15
I930185	15	<10	N	<5	N	N	N	50	N	N	N	70	.08	15
I930205	15	<10	N	<5	N	N	N	70	N	N	N	100	.08	15
I930225	20	<10	N	<5	N	N	N	30	N	N	N	100	.1	15
I930245	15	N	N	5	N	N	N	50	N	N	N	70	.1	15
I930265	15	N	N	5	N	N	N	70	N	N	N	100	.1	15
I930285	20	<10	N	5	N	N	N	30	N	N	N	100	.08	15
I930305	15	<10	N	5	N	N	N	50	N	N	N	100	.07	15
I930325	50	N	N	7	N	N	N	100	N	<10	N	150	.07	15
I930345	7	200	N	N	N	N	N	15	N	N	N	20	<.05	15
I930365	<5	N	N	N	N	N	N	<10	N	N	N	10	<.05	15
I930385	5	N	N	<5	N	N	N	50	N	<10	N	300	.07	15
I930405	5	N	N	N	N	N	N	30	N	<10	N	500	.05	15
I930425	<5	N	N	<5	N	N	N	30	N	10	N	300	<.05	15
I930445	5	N	N	N	N	N	N	30	N	<10	N	150	<.05	22
I930475	7	N	N	5	N	N	N	50	N	N	N	100	.07	22
I930520	15	15	N	<5	N	N	N	200	N	N	N	70	.09	22
I930535	N	<10	N	N	N	N	N	<10	N	N	N	<10	<.05	22
I930585	N	N	N	N	N	<100	N	<10	N	N	N	70	<.05	25
I930625	N	N	N	N	N	<100	N	<10	N	N	N	30	<.05	25
I930653	<5	<10	N	N	N	<100	N	N	N	<10	N	20	<.05	25

TABLE 26--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I94, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I940080	37 26 25	89 16 22	.07	.15	.02	N	N	.01	.7	N	N	15
I940120	37 26 25	89 16 22	.1	.3	.02	N	N	.1	2	N	N	20
I940165	37 26 25	89 16 22	.15	1.5	.07	N	N	.03	.5	N	N	20
I940215	37 26 25	89 16 22	.07	1	.1	N	N	.1	N	N	N	30
I940255	37 26 25	89 16 22	N	1.5	.5	.2	N	.5	N	N	N	50
I940295	37 26 25	89 16 22	N	2	.7	.3	N	.7	N	N	N	100
I940335	37 26 25	89 16 22	.15	1	.3	<.2	N	.3	N	N	N	30
I940365	37 26 25	89 16 22	.15	1.5	.5	<.2	N	.5	N	N	N	50
I940385	37 26 25	89 16 22	.2	2	.5	.3	N	.5	N	N	N	70
I940405	37 26 25	89 16 22	.1	3	.3	.2	N	.3	N	N	N	50
I940425	37 26 25	89 16 22	.1	3	.3	.3	N	.5	N	N	N	50
I940445	37 26 25	89 16 22	N	2	.2	.2	N	.3	N	N	N	50
I940465	37 26 25	89 16 22	.2	1.5	.2	<.2	N	.2	N	N	N	50
I940485	37 26 25	89 16 22	.3	2	.2	<.2	N	.3	N	N	N	30
I940505	37 26 25	89 16 22	.2	3	.15	N	N	.2	N	N	N	30
I940525	37 26 25	89 16 22	N	5	.5	N	N	.5	N	N	N	50
I940545	37 26 25	89 16 22	1	3	.2	N	N	.1	N	N	N	20
I940565	37 26 25	89 16 22	.1	5	.2	<.2	N	.15	N	N	N	30
I940585	37 26 25	89 16 22	N	<.05	<.02	N	N	.005	N	N	N	N
I940605	37 26 25	89 16 22	<.05	.2	.02	N	N	.01	N	N	N	10
I940625	37 26 25	89 16 22	N	.1	.02	N	N	.015	N	N	N	15
I940645	37 26 25	89 16 22	N	.3	<.02	N	N	.01	N	N	N	20
I940665	37 26 25	89 16 22	.07	.15	.02	N	N	.02	N	N	N	20
I940700	37 26 25	89 16 22	<.05	.05	<.02	N	N	.02	N	N	N	20
I940730	37 26 25	89 16 22	<.05	.1	<.02	N	N	.01	N	N	N	15
I940760	37 26 25	89 16 22	N	.15	.02	N	N	.015	N	N	N	20
I940790	37 26 25	89 16 22	.07	.2	.02	N	N	.015	N	N	N	10
I940820	37 26 25	89 16 22	.05	.3	<.02	N	N	.01	N	N	N	15
I940850	37 26 25	89 16 22	<.05	.07	<.02	N	N	.002	N	N	N	20
I940875	37 26 25	89 16 22	.1	.2	<.02	N	N	.005	N	N	N	20
I940900	37 26 25	89 16 22	<.05	.1	<.02	N	N	.003	N	N	N	30
I940925	37 26 25	89 16 22	<.05	.05	N	N	N	.002	N	N	N	20
I940950	37 26 25	89 16 22	N	.3	<.02	N	N	.003	N	N	N	50
I940975	37 26 25	89 16 22	.05	.1	<.02	N	N	.002	N	N	N	70
I941000	37 26 25	89 16 22	.15	1.5	<.02	N	N	.01	N	N	N	30
I941025	37 26 25	89 16 22	.07	.7	.02	N	N	.007	N	N	N	50
I941050	37 26 25	89 16 22	.05	.1	<.02	N	N	.007	N	N	N	50
I941075	37 26 25	89 16 22	.05	.2	.03	N	N	.015	N	N	N	70
I941100	37 26 25	89 16 22	<.05	<.05	<.02	N	N	<.002	N	N	N	50
I941125	37 26 25	89 16 22	<.05	.15	.02	N	N	.01	N	N	N	30
I941150	37 26 25	89 16 22	N	.2	.05	N	N	.02	N	N	N	30
I941175	37 26 25	89 16 22	N	.1	<.02	N	N	.01	N	N	N	70
I941210	37 26 25	89 16 22	<.05	.2	.02	N	N	.015	N	N	N	50
I941240	37 26 25	89 16 22	<.05	.3	.03	N	N	.02	N	N	N	30
I941260	37 26 25	89 16 22	<.05	.7	.05	N	N	.05	N	N	N	30
I941300	37 26 25	89 16 22	.05	.5	.03	N	N	.05	N	N	N	30

TABLE 26--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 194, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I940080	20	N	N	N	N	N	N	N	N	N	N	N	N
I940120	30	N	N	N	N	N	N	N	N	N	N	N	N
I940165	20	N	N	N	N	N	5	N	N	N	N	N	N
I940215	70	N	N	N	N	<10	10	N	N	N	15	N	N
I940255	200	1	N	N	<10	15	10	10	N	N	20	N	N
I940295	300	1.5	N	N	30	30	50	30	N	<50	30	7	<20
I940335	150	N	N	N	N	<10	20	5	N	N	30	N	N
I940365	100	<1	N	N	<10	20	70	15	N	N	50	N	N
I940385	200	1	N	N	10	20	50	20	N	N	100	N	N
I940405	150	<1	N	N	10	15	30	7	N	N	100	N	N
I940425	150	1	N	N	<10	30	50	20	N	N	150	N	N
I940445	100	<1	N	N	<10	15	15	10	N	N	100	N	N
I940465	100	<1	N	N	N	<10	20	7	N	N	70	N	N
I940485	100	N	N	N	N	10	50	5	N	N	30	<5	N
I940505	100	N	N	N	N	10	70	5	N	N	50	5	N
I940525	200	<1	N	N	10	20	20	5	N	N	20	7	N
I940545	50	N	N	N	<10	<10	70	<5	N	N	20	5	N
I940565	100	N	N	N	<10	15	50	10	N	N	50	7	N
I940585	N	N	N	N	N	N	N	N	N	N	N	N	N
I940605	<20	N	N	N	N	N	N	N	N	N	N	N	N
I940625	N	N	N	N	N	N	N	N	N	N	N	N	N
I940645	N	N	N	N	N	N	N	N	N	N	<10	N	N
I940665	<20	N	N	N	N	N	N	N	N	N	N	N	N
I940700	N	N	N	N	N	N	N	N	N	N	N	N	N
I940730	N	N	N	N	N	N	N	N	N	N	N	N	N
I940760	N	N	N	N	N	N	N	N	N	N	N	N	N
I940790	N	N	N	N	N	N	N	N	N	N	N	N	N
I940820	N	N	N	N	N	N	N	N	N	N	N	N	N
I940850	N	N	N	N	N	N	N	N	N	N	N	N	N
I940875	N	N	N	N	N	N	N	N	N	N	N	N	N
I940900	N	N	N	N	N	N	N	N	N	N	N	N	N
I940925	N	N	N	N	N	N	N	N	N	N	N	N	N
I940950	N	N	N	N	N	N	10	N	N	N	N	N	N
I940975	N	N	N	N	N	N	N	N	N	N	N	N	N
I941000	N	N	N	N	N	N	15	N	N	N	50	<5	N
I941025	N	N	N	N	N	N	5	N	N	N	10	N	N
I941050	N	N	N	N	N	N	N	N	N	N	N	N	N
I941075	<20	N	N	N	N	N	N	N	N	N	N	N	N
I941100	N	N	N	N	N	N	N	N	N	N	N	N	N
I941125	N	N	N	N	N	N	N	N	N	N	N	N	N
I941150	N	N	N	N	N	N	N	N	N	N	N	N	N
I941175	<20	N	N	N	N	N	N	N	N	N	N	N	N
I941210	20	N	N	N	N	N	N	N	N	N	N	N	N
I941240	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I941260	50	N	N	N	N	N	5	N	N	N	10	N	N
I941300	50	N	N	N	N	N	5	N	N	N	10	N	N

TABLE 26--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 194, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I940080	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I940120	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I940165	<5	N	N	N	N	N	N	<10	N	N	<200	10	<.05	14
I940215	10	N	N	N	N	N	N	30	N	N	N	30	<.05	14
I940255	20	N	N	5	N	N	N	100	N	N	N	70	.07	14
I940295	150	<10	N	7	N	N	N	150	N	<10	N	70	.06	14
I940335	10	N	N	N	N	N	N	50	N	N	N	100	<.05	14
I940365	20	<10	N	N	N	N	N	70	N	N	N	100	.08	14
I940385	10	15	N	<5	N	N	N	100	N	N	N	70	.1	14
I940405	15	<10	N	<5	N	N	N	100	N	N	N	70	.07	14
I940425	10	10	N	5	N	N	N	100	N	N	N	50	.07	14
I940445	7	<10	N	<5	N	N	N	70	N	N	N	50	.07	14
I940465	10	N	N	N	N	N	N	50	N	N	N	50	.05	14
I940485	15	N	N	N	N	N	N	70	N	N	N	30	.06	14
I940505	20	70	N	N	N	N	N	70	N	N	N	30	<.05	14
I940525	30	N	N	<5	N	N	N	100	N	N	N	200	.13	14
I940545	50	<10	N	N	N	N	N	30	N	N	700	70	<.05	14
I940565	20	20	N	N	N	N	N	50	N	N	N	70	<.05	14
I940585	N	N	N	N	N	N	N	N	N	N	N	10	<.05	14
I940605	N	15	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940625	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940645	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940665	N	N	N	N	N	N	N	N	N	N	N	30	<.05	14
I940700	N	N	N	N	N	N	N	N	N	N	N	10	<.05	14
I940730	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940760	N	N	N	N	N	N	N	N	N	N	N	10	<.05	14
I940790	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940820	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940850	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I940875	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I940900	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I940925	N	100	N	N	N	N	N	N	N	N	N	N	<.05	14
I940950	<5	200	N	N	N	N	N	N	N	N	N	<10	<.05	14
I940975	N	N	N	N	N	N	N	N	N	N	N	10	<.05	14
I941000	15	20	N	N	N	N	N	N	N	N	N	<10	<.05	14
I941025	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I941050	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I941075	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I941100	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I941125	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I941150	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I941175	N	N	N	N	N	N	N	N	N	N	N	<10	<.05	14
I941210	N	N	N	N	N	N	N	N	N	N	N	N	<.05	14
I941240	N	N	N	N	N	N	N	N	N	N	N	10	<.05	14
I941260	<5	N	N	N	N	N	N	<10	N	N	N	20	<.05	14
I941300	<5	N	N	N	N	N	N	<10	N	N	N	15	<.05	14

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I95, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I95R0660	37 32 50	88 50 20	.3	2	1	.2	N	.2	N	N	N	15
I95R0700	37 32 50	88 50 20	N	3	1.5	<.2	N	.3	N	N	N	50
I95R0765	37 32 50	88 50 20	<.05	3	1.5	.7	N	.3	N	N	N	70
I95R0785	37 32 50	88 50 20	<.05	3	1	.7	N	.3	N	N	N	50
I95R0855	37 32 50	88 50 20	.05	5	1	1	N	.3	N	N	N	50
I95R0875	37 32 50	88 50 20	N	1	.5	.5	N	.15	N	N	N	30
I95R0955	37 32 50	88 50 20	N	2	1.5	.7	N	.5	N	N	N	50
I95R1040	37 32 50	88 50 20	N	1.5	1.5	.7	N	.5	N	N	N	70
I95R1100	37 32 50	88 50 20	N	2	1	.7	N	.5	N	N	N	50
I95R1135	37 32 50	88 50 20	.07	3	2	1	N	.3	N	N	N	70
I95R1160	37 32 50	88 50 20	.05	3	1.5	.7	N	.3	N	N	N	50
I95R1375	37 32 50	88 50 20	<.05	3	1.5	.7	N	.5	N	N	N	100
I95R1425	37 32 50	88 50 20	<.05	2	1	.5	N	.3	N	N	N	70
I95R1455	37 32 50	88 50 20	N	3	1	.5	N	.3	N	N	N	70
I95R1500	37 32 50	88 50 20	.05	2	1.5	.7	N	.2	N	N	N	70
I95R1540	37 32 50	88 50 20	.15	3	2	.5	N	.3	N	N	N	100
I95R1585	37 32 50	88 50 20	N	2	1.5	1	N	.3	N	N	N	50
I95R1775	37 32 50	88 50 20	N	5	2	1	N	.5	N	N	N	100
I95R1830	37 32 50	88 50 20	N	1.5	1.5	.5	N	.2	N	N	N	30
I95R1850	37 32 50	88 50 20	N	3	1.5	.3	N	.3	N	N	N	100
I95R1890	37 32 50	88 50 20	<.05	5	2	1	N	.5	N	N	N	100
I95R1915	37 32 50	88 50 20	N	5	2	.5	N	.5	N	N	N	100
I95R1974	37 32 50	88 50 20	N	3	1.5	.7	N	.3	N	N	N	70
I95R1990	37 32 50	88 50 20	<.05	1.5	.7	.3	N	.2	N	N	N	15
I95R1995	37 32 50	88 50 20	.1	3	1.5	.5	N	.3	N	N	N	50
I95R2000	37 32 50	88 50 20	.5	1	.5	.2	N	.15	N	N	N	30
I95R2040	37 32 50	88 50 20	N	5	2	.5	N	.5	N	N	N	70
I95R2080	37 32 50	88 50 20	<.05	2	1.5	.7	N	.3	N	N	N	70
I95R2120	37 32 50	88 50 20	N	2	1.5	.7	N	.3	N	N	N	50
I95R2140	37 32 50	88 50 20	.15	7	2	.3	N	.2	N	N	N	100
I95R2155	37 32 50	88 50 20	N	5	1.5	.5	N	.3	N	N	N	70
I95R2195	37 32 50	88 50 20	<.05	2	1	1	N	.2	N	N	N	50
I95R2240	37 32 50	88 50 20	.07	2	1.5	.3	N	.5	N	N	N	150
I95R2290	37 32 50	88 50 20	N	2	.7	.5	N	.2	N	N	N	30
I95R2330	37 32 50	88 50 20	<.05	2	1	.3	N	.3	N	N	N	100
I95R2400	37 32 50	88 50 20	<.05	2	1	.5	N	.3	N	N	N	70
I95R2440	37 32 50	88 50 20	<.05	2	1	.3	N	.5	N	N	N	150
I95R2490	37 32 50	88 50 20	.07	1.5	.7	.3	N	.3	N	N	N	100
I95R2525	37 32 50	88 50 20	<.05	3	1.5	.5	N	.5	N	N	N	100
I95R2570	37 32 50	88 50 20	<.05	1.5	.7	.7	N	.3	N	N	N	70
I95R2610	37 32 50	88 50 20	.07	5	2	.7	N	.7	N	N	N	100
I95R2650	37 32 50	88 50 20	.5	5	2	.5	N	.5	N	N	N	70
I95R2675	37 32 50	88 50 20	N	5	2	.5	N	.5	N	N	N	70
I95R2720	37 32 50	88 50 20	.05	1.5	1	.7	N	.3	N	N	N	70
I95R2755	37 32 50	88 50 20	.07	2	1.5	.5	N	.5	N	N	N	100
I95R2780	37 32 50	88 50 20	.05	3	2	1	N	.5	N	N	N	100
I95R2815	37 32 50	88 50 20	<.05	2	1.5	.2	N	.3	N	N	N	70
I95R2850	37 32 50	88 50 20	.05	2	2	1	N	.5	N	N	N	100
I95R2890	37 32 50	88 50 20	.1	3	2	.7	N	.5	N	N	N	100
I95R2930	37 32 50	88 50 20	.05	3	2	.7	N	.3	N	N	N	70
I95R2975	37 32 50	88 50 20	1	2	1.5	1	N	.5	N	N	N	100
I95R3000	37 32 50	88 50 20	.2	5	1.5	.7	N	.5	N	N	N	100
I95R3040	37 32 50	88 50 20	.15	2	1	1	N	.5	N	N	N	70
I95R3080	37 32 50	88 50 20	.3	1.5	1.5	1	N	.3	N	N	N	70
I95R3120	37 32 50	88 50 20	.2	3	1.5	.3	N	.5	N	N	N	100
I95R3150	37 32 50	88 50 20	.15	2	2	.5	N	.3	N	N	N	50
I95R3180	37 32 50	88 50 20	.7	2	1.5	.5	N	.5	N	N	N	70
I95R3220	37 32 50	88 50 20	.15	2	1.5	.7	N	.3	N	N	N	70
I95R3255	37 32 50	88 50 20	.05	2	1	1	N	.5	N	N	N	100
I95R3300	37 32 50	88 50 20	.5	3	1.5	.7	N	.5	N	N	N	70

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I95, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I95R0660	5,000	N	N	N	N	150	150	10	N	N	20	<5	<20
I95R0700	500	N	N	N	20	150	20	30	N	N	30	10	<20
I95R0765	200	<1	N	N	<10	70	15	20	N	<50	50	N	N
I95R0785	300	<1	N	N	<10	200	30	20	N	N	30	N	N
I95R0855	500	N	N	N	<10	150	15	15	N	N	20	5	<20
I95R0875	150	N	N	N	N	20	15	<5	N	N	10	N	N
I95R0955	300	1	N	N	10	100	20	30	N	<50	30	<5	<20
I95R1040	300	1	N	N	<10	70	10	10	N	50	20	N	<20
I95R1100	500	<1	N	N	<10	100	20	10	N	<50	15	N	<20
I95R1135	700	<1	N	N	20	100	30	30	N	N	30	30	20
I95R1160	150	<1	N	N	20	100	30	20	N	N	30	20	<20
I95R1375	300	1	N	N	15	150	20	30	N	<50	20	N	N
I95R1425	150	1	N	N	10	150	15	10	N	<50	20	<5	<20
I95R1455	500	<1	N	N	30	100	20	7	N	N	30	20	20
I95R1500	700	<1	N	N	<10	150	15	20	N	N	15	5	N
I95R1540	500	1.5	N	N	<10	150	15	30	N	<50	20	N	<20
I95R1585	500	<1	N	N	10	200	7	20	N	N	15	N	N
I95R1775	700	1	N	N	10	200	15	30	N	50	30	N	<20
I95R1830	1,500	N	N	N	10	100	70	30	N	N	10	<5	N
I95R1850	500	1	N	N	<10	100	10	20	N	<50	20	<5	<20
I95R1890	1,000	1.5	N	N	15	150	20	20	N	<50	30	<5	<20
I95R1915	700	2	N	N	15	150	20	30	N	<50	20	<5	<20
I95R1974	300	<1	N	N	<10	100	7	30	N	<50	15	N	N
I95R1990	200	N	N	N	N	100	<5	<5	N	N	<10	N	N
I95R1995	150	<1	N	N	<10	70	5	7	N	N	20	N	N
I95R2000	700	N	N	N	N	30	<5	N	N	N	10	N	N
I95R2040	150	1.5	N	N	10	150	15	50	N	<50	30	N	N
I95R2080	150	1.5	N	N	<10	100	5	30	N	<50	20	N	N
I95R2120	100	1	N	N	10	200	7	30	N	<50	15	N	N
I95R2140	150	1	N	N	10	200	20	20	N	<50	50	N	N
I95R2155	300	1.5	N	N	15	200	20	20	N	50	15	N	N
I95R2195	300	1	N	N	<10	100	10	20	N	N	10	N	N
I95R2240	200	2	N	N	10	150	15	20	N	50	10	<5	<20
I95R2290	70	<1	N	N	<10	100	10	15	N	N	N	N	N
I95R2330	100	1	N	N	10	150	15	20	N	<50	10	N	N
I95R2400	150	1	N	N	10	150	5	30	N	<50	10	N	<20
I95R2440	200	2	N	N	10	150	30	30	N	<50	20	N	<20
I95R2490	200	1.5	N	N	<10	100	15	20	N	N	15	N	N
I95R2525	300	1.5	N	N	10	200	20	30	N	50	20	N	<20
I95R2570	100	<1	N	N	<10	70	7	15	N	N	<10	N	N
I95R2610	150	1.5	N	N	10	100	15	30	N	50	15	<5	20
I95R2650	200	2	N	N	<10	50	7	20	N	<50	20	N	N
I95R2675	100	1	N	N	10	150	15	20	N	<50	15	5	<20
I95R2720	100	<1	N	N	<10	70	5	30	N	N	<10	N	N
I95R2755	150	1.5	N	N	<10	100	10	20	N	<50	15	<5	<20
I95R2780	200	1.5	N	N	10	150	20	100	N	<50	15	<5	N
I95R2815	70	1	N	N	<10	50	15	15	N	N	10	N	N
I95R2850	300	1.5	N	N	<10	100	10	50	N	<50	10	N	N
I95R2890	150	1	N	N	10	100	15	50	N	<50	15	<5	<20
I95R2930	150	1.5	N	N	<10	150	10	50	N	<50	10	N	N
I95R2975	200	1	N	N	10	100	15	70	N	<50	15	<5	N
I95R3000	200	1.5	N	N	20	100	20	50	N	<50	15	<5	<20
I95R3040	200	1	N	N	10	150	10	30	N	<50	<10	N	<20
I95R3080	150	1.5	N	N	N	70	7	20	N	N	10	N	<20
I95R3120	150	2	N	N	<10	100	15	15	N	<50	15	5	<20
I95R3150	100	1	N	N	10	70	15	20	N	<50	10	N	N
I95R3180	150	1.5	N	N	<10	100	20	20	N	<50	15	<5	N
I95R3220	100	<1	N	N	10	100	15	30	N	<50	10	<5	N
I95R3255	200	1.5	N	N	<10	50	7	20	N	50	15	N	N
I95R3300	150	1	N	N	10	100	15	20	N	50	15	N	<20

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 195, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I95R0660	7	N	N	N	N	<100	N	30	300	N	<200	30	.11	3
I95R0700	50	N	N	7	N	N	N	50	1,000	<10	<200	50	<.05	3
I95R0765	30	N	N	7	N	N	N	70	50	<10	N	50	.07	3
I95R0785	20	N	N	5	N	N	N	70	N	<10	N	100	<.05	3
I95R0855	30	<10	N	<5	N	N	N	50	100	<10	N	150	.05	3
I95R0875	15	N	N	N	N	N	N	30	<20	N	N	70	<.05	3
I95R0955	30	N	N	10	N	N	N	70	200	<10	N	70	<.05	3
I95R1040	20	N	N	7	N	N	N	70	30	10	N	100	<.05	3
I95R1100	50	N	N	7	N	N	N	70	30	10	N	150	<.05	3
I95R1135	50	<10	N	5	N	N	N	50	2,000	<10	N	70	.07	3
I95R1160	50	N	N	7	N	N	N	50	1,000	N	N	70	.07	3
I95R1375	30	<10	N	7	N	N	N	100	30	<10	N	70	<.05	4
I95R1425	30	N	N	5	N	N	N	70	100	10	N	150	<.05	4
I95R1455	70	N	N	5	N	N	N	50	2,000	<10	N	100	<.05	4
I95R1500	70	N	N	7	N	N	N	70	150	<10	N	70	.05	4
I95R1540	30	<10	N	10	N	N	N	100	20	<10	N	50	.09	4
I95R1585	30	N	N	7	N	N	N	70	N	<10	N	70	<.05	4
I95R1775	30	N	N	10	N	N	N	100	N	10	N	100	.05	5
I95R1830	20	N	N	5	N	N	N	50	100	N	N	30	<.05	5
I95R1850	50	<10	N	10	N	N	N	100	150	<10	N	150	<.05	5
I95R1890	50	<10	N	10	N	N	N	100	50	<10	<200	70	<.05	5
I95R1915	70	<10	N	10	N	N	N	100	200	<10	<200	70	<.05	5
I95R1974	30	<10	N	7	N	N	N	70	70	<10	N	30	<.05	5
I95R1990	20	N	N	N	N	N	N	30	N	N	N	100	<.05	6
I95R1995	30	N	N	<5	N	N	N	70	N	N	N	500	<.05	6
I95R2000	7	N	N	N	N	N	N	15	N	15	N	300	<.05	6
I95R2040	50	<10	N	10	N	N	N	100	N	<10	N	70	<.05	6
I95R2080	50	<10	N	7	N	N	N	100	<20	<10	N	50	<.05	6
I95R2120	50	<10	N	10	N	N	N	100	30	<10	N	70	<.05	6
I95R2140	70	<10	N	10	N	N	N	70	N	<10	<200	70	.05	6
I95R2155	50	<10	N	10	N	N	N	70	N	<10	N	70	<.05	6
I95R2195	30	<10	N	7	N	N	N	70	50	N	N	50	<.05	6
I95R2240	30	<10	N	10	N	N	N	100	150	<10	N	70	.05	6
I95R2290	20	N	N	5	N	N	N	50	20	N	N	30	.06	6
I95R2330	30	N	N	7	N	N	N	100	N	<10	N	50	<.05	6
I95R2400	20	N	N	10	N	N	N	100	100	<10	N	50	<.05	6
I95R2440	30	N	N	10	N	N	N	100	N	10	N	100	<.05	6
I95R2490	20	N	N	7	N	N	N	70	N	<10	N	70	.06	6
I95R2525	30	<10	N	10	N	N	N	100	N	10	N	70	.05	6
I95R2570	15	N	N	5	N	N	N	70	N	<10	N	30	.05	6
I95R2610	30	<10	N	10	N	N	N	150	70	10	N	70	.06	6
I95R2650	20	<10	N	10	N	N	N	150	<20	<10	N	50	.06	6
I95R2675	20	<10	N	10	N	N	N	100	300	<10	N	70	<.05	7
I95R2720	15	<10	N	<5	N	N	N	70	N	N	N	50	.05	7
I95R2755	30	<10	N	10	N	N	N	150	20	<10	N	150	.06	7
I95R2780	50	<10	N	10	N	N	N	100	30	<10	N	70	<.05	7
I95R2815	20	N	N	5	N	N	N	70	50	N	N	50	.05	7
I95R2850	20	<10	N	7	N	N	N	150	N	<10	N	70	.05	7
I95R2890	30	<10	N	10	N	N	N	100	200	<10	N	70	.06	7
I95R2930	20	<10	N	7	N	N	N	70	N	<10	N	30	.06	7
I95R2975	20	<10	N	7	N	<100	N	100	<20	<10	N	70	.1	7
I95R3000	50	10	N	10	N	N	N	70	150	<10	N	50	.06	7
I95R3040	20	<10	N	10	N	N	N	100	N	10	N	70	.06	7
I95R3080	15	<10	N	5	N	N	N	70	100	<10	N	50	.06	7
I95R3120	30	N	N	7	N	N	N	100	150	<10	N	70	.06	7
I95R3150	20	<10	N	7	N	N	N	70	<20	<10	N	70	.06	7
I95R3180	20	N	N	10	N	<100	N	70	<20	10	N	70	.06	7
I95R3220	20	<10	N	7	N	N	N	70	200	<10	N	50	.06	7
I95R3255	30	N	N	7	N	<100	N	100	70	10	N	70	.06	7
I95R3300	20	N	N	10	N	N	N	100	100	10	N	50	.05	7

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 195, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
195R3330	37 32 50	88 50 20	.7	2	2	1	N	.5	N	N	N	100
195R3365	37 32 50	88 50 20	.2	2	2	1	N	.5	N	N	N	150
195R3405	37 32 50	88 50 20	.05	1.5	1	1	N	.3	N	N	N	70
195R3450	37 32 50	88 50 20	.2	1.5	.7	1	N	.3	N	N	N	50
195R3480	37 32 50	88 50 20	.7	2	1	.3	N	.3	N	N	N	100
195R3520	37 32 50	88 50 20	.15	2	1	.7	N	.3	N	N	N	50
195R3550	37 32 50	88 50 20	.1	2	1.5	1	N	.5	N	N	N	100
195R3585	37 32 50	88 50 20	.2	3	1	1	N	.3	N	N	N	70
195R3620	37 32 50	88 50 20	.3	2	1.5	.7	N	.3	N	N	N	150
195R3660	37 32 50	88 50 20	.5	2	1	.7	N	.3	N	N	N	70
195R3700	37 32 50	88 50 20	.15	3	1	.5	N	.2	N	N	N	50
195R3730	37 32 50	88 50 20	.3	3	1.5	1	N	.5	N	N	N	150
195R3760	37 32 50	88 50 20	.3	2	1	.5	N	.2	N	N	N	70
195R3790	37 32 50	88 50 20	.5	2	1	.7	N	.3	N	N	N	100
195R3820	37 32 50	88 50 20	.1	2	1	.7	N	.3	<.5	N	N	70
195R4135	37 32 50	88 50 20	1	3	2	.7	N	.2	N	N	N	150
195R4170	37 32 50	88 50 20	.2	2	1.5	.7	N	.3	N	N	N	70
195R4202	37 32 50	88 50 20	.2	3	1	.5	N	.2	N	N	N	50
195R4217	37 32 50	88 50 20	.3	2	2	.5	N	.3	N	N	N	100
195R4230	37 32 50	88 50 20	.15	10	1.5	.7	N	.3	N	N	N	100
195R4250	37 32 50	88 50 20	.2	3	1.5	.7	N	.2	N	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
195R3330	200	2	N	N	10	150	15	30	N	<50	15	N	<20
195R3365	200	2	N	N	<10	150	20	30	N	<50	15	N	<20
195R3405	100	1.5	N	N	<10	100	15	20	N	N	<10	N	N
195R3450	300	1	N	N	<10	70	5	20	N	N	<10	N	N
195R3480	200	1.5	N	N	<10	50	20	15	N	<50	20	<5	N
195R3520	100	1	N	N	10	70	20	15	N	<50	10	<5	N
195R3550	200	1.5	N	N	10	150	30	30	N	<50	20	N	<20
195R3585	200	1	N	N	10	70	20	30	N	N	20	7	<20
195R3620	150	2	N	N	10	100	20	20	N	<50	30	10	<20
195R3660	150	1.5	N	N	10	30	15	5	N	<50	15	7	<20
195R3700	200	<1	N	N	10	50	30	15	N	N	20	7	N
195R3730	300	1.5	N	N	20	150	50	30	N	50	20	30	20
195R3760	150	<1	N	N	20	50	20	20	N	N	15	20	20
195R3790	500	1	N	N	50	70	50	15	N	N	20	30	20
195R3820	150	1	N	N	10	100	15	20	N	<50	20	5	<20
195R4135	200	1.5	N	N	10	30	70	10	N	N	50	5	N
195R4170	200	1	N	N	10	70	50	30	N	N	30	7	N
195R4202	150	<1	N	N	15	50	15	15	N	N	50	5	N
195R4217	500	1	N	N	10	50	20	15	N	N	70	5	<20
195R4230	300	1.5	N	N	20	70	70	20	N	<50	70	20	<20
195R4250	200	<1	N	N	10	50	20	10	N	<50	20	15	<20

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I95, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I95R3330	20	<10	N	10	N	<100	N	100	<20	10	N	70	.06	7
I95R3365	30	<10	N	10	N	N	N	100	N	10	N	100	.05	7
I95R3405	20	15	N	5	N	N	N	50	<20	N	N	50	.06	7
I95R3450	20	<10	N	5	N	N	N	70	50	<10	N	50	.1	7
I95R3480	30	N	N	7	N	N	N	70	30	<10	N	50	.07	7
I95R3520	50	<10	N	7	N	N	N	50	50	<10	N	50	.07	7
I95R3550	30	10	N	7	N	N	N	100	20	10	N	70	.05	7
I95R3585	50	<10	N	7	N	N	N	70	500	<10	N	50	.06	7
I95R3620	70	<10	N	10	N	<100	N	100	1,000	<10	N	50	.07	7
I95R3660	100	N	N	7	N	N	N	50	1,000	<10	N	70	.06	7
I95R3700	200	<10	N	5	N	N	N	50	100	N	N	50	<.05	7
I95R3730	100	N	N	10	N	N	N	100	2,000	10	N	100	.05	7
I95R3760	100	N	N	<5	N	200	N	50	2,000	N	N	50	.06	7
I95R3790	70	N	N	5	N	2,000	N	50	3,000	N	N	70	.06	7
I95R3820	100	N	N	7	N	<100	N	70	100	<10	N	70	.05	7
I95R4135	50	<10	N	<5	N	N	N	100	<20	N	N	70	.07	10
I95R4170	50	10	N	5	N	N	N	100	30	<10	N	70	.06	10
I95R4202	70	<10	N	<5	N	N	N	70	100	N	N	70	.1	10
I95R4217	50	<10	N	5	N	N	N	100	150	N	<200	50	.05	10
I95R4230	150	10	N	7	N	N	N	70	500	<10	N	70	.06	10
I95R4250	70	N	N	5	N	N	N	70	1,000	<10	N	70	.08	10

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I96, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I96R1440	37 43 15	88 46 8	.05	5	2	.5	N	.3	N	N	N	50
I96R1480	37 43 15	88 46 8	.15	7	2	.5	N	.2	N	N	N	30
I96R1520	37 43 15	88 46 8	.07	5	2	.7	N	.3	N	N	N	30
I96R1560	37 43 15	88 46 8	.07	5	1.5	.7	N	.2	N	N	N	20
I96R1600	37 43 15	88 46 8	N	3	1	.5	N	.3	N	N	N	15
I96R1640	37 43 15	88 46 8	<.05	3	1	.5	N	.3	N	N	N	30
I96R1680	37 43 15	88 46 8	N	2	1	1	N	.2	N	N	N	15
I96R1720	37 43 15	88 46 8	<.05	3	1	.5	N	.5	N	N	N	50
I96R1760	37 43 15	88 46 8	N	2	1	.5	N	.2	N	N	N	30
I96R1800	37 43 15	88 46 8	<.05	5	.7	.3	N	.3	N	N	N	30
I96R1840	37 43 15	88 46 8	.07	5	2	.5	N	.2	N	N	N	30
I96R1880	37 43 15	88 46 8	<.05	5	2	.7	N	.3	N	N	N	30
I96R1920	37 43 15	88 46 8	.05	3	2	1	N	.3	N	N	N	50
I96R1960	37 43 15	88 46 8	N	2	.7	.3	N	.15	N	N	N	15
I96R2000	37 43 15	88 46 8	N	3	1	.5	N	.3	<.5	N	N	50
I96R2040	37 43 15	88 46 8	N	2	.5	.2	N	.15	N	N	N	20
I96R2080	37 43 15	88 46 8	<.05	5	1.5	.5	N	.3	N	N	N	50
I96R2120	37 43 15	88 46 8	.05	3	2	.7	N	.3	N	N	N	30
I96R2160	37 43 15	88 46 8	<.05	2	1	.5	N	.3	N	N	N	50
I96R2200	37 43 15	88 46 8	N	1.5	.7	.3	N	.2	N	N	N	10
I96R2240	37 43 15	88 46 8	<.05	2	1	.5	N	.2	N	N	N	20
I96R2280	37 43 15	88 46 8	.05	3	1.5	.5	N	.3	N	N	N	50
I96R2320	37 43 15	88 46 8	<.05	5	2	.7	N	.3	N	N	N	70
I96R2360	37 43 15	88 46 8	<.05	3	1.5	.3	N	.3	N	N	N	70
I96R2400	37 43 15	88 46 8	<.05	5	.7	.3	N	.3	N	N	N	50
I96R2450	37 43 15	88 46 8	N	3	1	.7	N	.3	N	N	N	50
I96R2490	37 43 15	88 46 8	<.05	2	1	.5	N	.3	N	N	N	50
I96R2520	37 43 15	88 46 8	<.05	5	2	.3	N	.5	N	N	N	70
I96R2565	37 43 15	88 46 8	<.05	2	1	.5	N	.3	N	N	N	30
I96R2580	37 43 15	88 46 8	.05	3	1.5	.5	N	.3	N	N	N	30
I96R2590	37 43 15	88 46 8	<.05	7	2	1	N	.3	N	N	N	30
I96R2620	37 43 15	88 46 8	.05	5	2	.5	N	.3	N	N	N	50
I96R2640	37 43 15	88 46 8	.07	5	1.5	1	N	.2	N	N	N	50
I96R2650	37 43 15	88 46 8	N	2	.7	.2	N	.15	N	N	N	20
I96R2670	37 43 15	88 46 8	.05	3	2	.7	N	.3	N	N	N	50
I96R2690	37 43 15	88 46 8	<.05	2	1	.3	N	.2	N	N	N	30
I96R2710	37 43 15	88 46 8	.07	5	2	.5	N	.3	N	N	N	50
I96R2735	37 43 15	88 46 8	<.05	5	2	.7	N	.2	N	N	N	30
I96R2770	37 43 15	88 46 8	.07	5	2	.7	N	.3	N	N	N	50
I96R2800	37 43 15	88 46 8	<.05	2	1.5	1	N	.2	N	N	N	20
I96R2820	37 43 15	88 46 8	.07	2	1.5	.3	N	.3	N	N	N	50
I96R2850	37 43 15	88 46 8	.15	3	2	.5	N	.5	N	N	N	100
I96R2880	37 43 15	88 46 8	.05	3	1	.3	N	.3	N	N	N	50
I96R2910	37 43 15	88 46 8	.05	2	1	.7	N	.2	N	N	N	30
I96R2990	37 43 15	88 46 8	.05	1.5	1	.5	N	.2	N	N	N	30
I96R3040	37 43 15	88 46 8	.2	2	1.5	.5	N	.3	N	N	N	50
I96R3080	37 43 15	88 46 8	.1	2	1	.3	N	.3	N	N	N	50
I96R3120	37 43 15	88 46 8	.1	3	1	.3	N	.5	N	N	N	70
I96R3160	37 43 15	88 46 8	.1	3	1	.7	N	.3	N	N	N	50
I96R3200	37 43 15	88 46 8	<.05	2	1	.5	N	.3	N	N	N	50
I96R3240	37 43 15	88 46 8	.3	1.5	.7	.5	N	.2	N	N	N	30
I96R3280	37 43 15	88 46 8	<.05	1.5	1	.7	N	.3	N	N	N	30
I96R3320	37 43 15	88 46 8	.15	2	1	.5	N	.3	N	N	N	70
I96R3380	37 43 15	88 46 8	.2	3	1.5	.5	N	.2	N	N	N	50
I96R3430	37 43 15	88 46 8	.2	2	1	.3	N	.3	N	N	N	100
I96R3480	37 43 15	88 46 8	.15	2	1	.7	N	.3	N	N	N	30
I96R3520	37 43 15	88 46 8	5	1.5	2	.3	N	.3	N	N	N	50
I96R3560	37 43 15	88 46 8	.07	3	1.5	.3	N	.3	N	N	N	70
I96R3600	37 43 15	88 46 8	.05	2	1	.5	N	.15	N	N	N	20
I96R3630	37 43 15	88 46 8	.05	5	1	.3	N	.3	N	N	N	50

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I96, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I96R1440	300	1.5	N	N	15	150	30	30	N	<50	70	<5	<20
I96R1480	1,000	1	N	N	15	100	20	20	N	N	700	<5	N
I96R1520	200	<1	N	N	15	300	20	30	N	N	70	5	<20
I96R1560	200	<1	N	N	10	70	20	30	N	N	100	N	N
I96R1600	70	N	N	N	N	30	7	20	N	N	10	N	N
I96R1640	200	<1	N	N	<10	100	15	20	N	N	20	N	N
I96R1680	70	N	N	N	<10	50	10	15	N	N	15	N	N
I96R1720	150	<1	N	N	<10	70	20	15	N	N	30	N	<20
I96R1760	700	<1	N	N	10	50	15	20	N	N	20	N	N
I96R1800	1,000	1	N	N	10	70	30	7	N	N	20	<5	N
I96R1840	200	<1	N	N	10	30	20	20	N	N	150	N	N
I96R1880	300	<1	N	N	10	100	15	20	N	N	20	N	N
I96R1920	300	1.5	N	N	15	150	10	30	N	<50	20	N	N
I96R1960	150	N	N	N	N	30	7	10	N	N	<10	N	N
I96R2000	150	1	N	N	<10	50	15	15	N	<50	15	N	<20
I96R2040	200	N	N	N	N	30	7	5	N	N	10	N	N
I96R2080	200	1	N	N	<10	50	5	20	N	<50	20	N	<20
I96R2120	100	1	N	N	10	70	20	30	N	N	15	N	N
I96R2160	100	<1	N	N	<10	50	15	15	N	N	10	N	N
I96R2200	50	N	N	N	N	20	<5	<5	N	N	<10	N	N
I96R2240	100	N	N	N	N	30	5	15	N	N	15	N	N
I96R2280	70	<1	N	N	<10	70	7	30	N	<50	15	N	N
I96R2320	150	1	N	N	10	100	7	30	N	<50	20	N	N
I96R2360	200	1	N	N	10	100	7	20	N	<50	20	N	N
I96R2400	70	1	N	N	<10	70	10	10	N	N	20	N	N
I96R2450	100	1	N	N	10	50	10	20	N	<50	20	N	N
I96R2490	100	1	N	N	<10	70	10	30	N	N	15	N	N
I96R2520	150	1.5	N	N	10	100	15	30	N	<50	30	N	N
I96R2565	70	<1	N	N	<10	150	5	20	N	N	10	N	N
I96R2580	50	<1	N	N	<10	70	7	30	N	N	15	N	N
I96R2590	100	1	N	N	10	100	7	50	N	<50	20	N	N
I96R2620	100	1	N	N	10	100	30	30	N	N	30	N	N
I96R2640	70	<1	N	N	<10	70	15	30	N	N	15	N	N
I96R2650	50	N	N	N	N	20	<5	5	N	N	15	N	N
I96R2670	70	<1	N	N	10	70	10	30	N	N	20	N	N
I96R2690	50	1	N	N	<10	30	<5	20	N	N	15	N	N
I96R2710	100	1	N	N	10	100	30	30	N	<50	30	N	N
I96R2735	100	1	N	N	15	150	7	50	N	N	20	N	N
I96R2770	100	1.5	N	N	10	100	10	50	N	<50	30	N	N
I96R2800	50	<1	N	N	<10	100	5	30	N	N	10	N	N
I96R2820	100	1	N	N	10	50	5	20	N	<50	70	N	N
I96R2850	150	1.5	N	N	10	100	15	50	N	<50	15	N	<20
I96R2880	70	1.5	N	N	10	70	10	30	N	N	15	N	N
I96R2910	70	1	N	N	<10	100	7	50	N	N	10	N	N
I96R2990	70	1	N	N	10	70	5	30	N	N	<10	N	N
I96R3040	200	1.5	N	N	10	70	7	30	N	N	15	N	N
I96R3080	100	1	N	N	<10	50	15	20	N	N	15	N	N
I96R3120	150	1.5	N	N	10	70	5	30	N	<50	15	N	<20
I96R3160	100	1	N	N	<10	100	7	30	N	N	10	N	N
I96R3200	100	1	N	N	10	50	10	20	N	N	10	N	N
I96R3240	50	<1	N	N	<10	70	7	20	N	N	<10	<5	N
I96R3280	70	<1	N	N	10	70	5	30	N	N	<10	N	N
I96R3320	150	1.5	N	N	10	50	10	30	N	<50	20	N	N
I96R3380	200	<1	N	N	<10	30	15	20	N	N	30	<5	N
I96R3430	100	1	N	N	10	30	15	10	N	N	20	<5	N
I96R3480	150	<1	N	N	10	100	15	30	N	N	15	5	N
I96R3520	200	<1	N	N	<10	70	10	15	N	N	50	N	N
I96R3560	70	1.5	N	N	10	50	5	30	N	<50	20	N	N
I96R3600	50	N	N	N	<10	50	7	20	N	N	15	N	N
I96R3630	70	1	N	N	<10	30	10	5	N	N	50	N	N

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I96, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I96R1440	30	30	N	10	N	N	N	150	<20	10	N	70	<.05	3
I96R1480	30	30	N	7	N	N	N	70	<20	<10	200	70	.07	3
I96R1520	30	20	N	7	N	N	N	100	20	<10	N	70	.06	3
I96R1560	20	20	N	5	N	N	N	50	N	N	N	50	<.05	3
I96R1600	10	N	N	<5	N	N	N	50	N	N	N	30	<.05	3
I96R1640	15	15	N	<5	N	N	N	70	N	N	N	70	<.05	3
I96R1680	15	N	N	<5	N	N	N	30	N	<10	N	100	<.05	3
I96R1720	20	<10	N	5	N	N	N	50	N	<10	N	150	<.05	3
I96R1760	20	10	N	5	N	N	N	50	N	<10	N	70	<.05	3
I96R1800	20	<10	N	5	N	N	N	70	N	<10	N	50	<.05	3
I96R1840	15	15	N	5	N	N	N	70	N	N	N	30	.05	3
I96R1880	20	<10	N	7	N	N	N	70	N	N	N	50	.06	3
I96R1920	20	<10	N	7	N	N	N	50	N	10	N	50	<.05	3
I96R1960	10	N	N	<5	N	N	N	50	N	N	N	20	.05	3
I96R2000	15	N	N	7	N	N	N	100	N	<10	N	70	<.05	3
I96R2040	10	N	N	<5	N	N	N	50	N	N	N	30	<.05	3
I96R2080	20	<10	N	5	N	N	N	100	N	10	N	70	<.05	3
I96R2120	20	15	N	5	N	N	N	70	N	N	N	30	<.05	4
I96R2160	15	10	N	<5	N	N	N	100	N	N	N	50	<.05	4
I96R2200	7	N	N	N	N	N	N	30	N	N	N	70	<.05	4
I96R2240	10	N	N	<5	N	N	N	50	N	N	N	30	<.05	4
I96R2280	15	<10	N	7	N	N	N	70	N	<10	N	50	.05	4
I96R2320	20	<10	N	10	N	N	N	70	N	<10	N	30	<.05	4
I96R2360	20	N	N	7	N	N	N	100	N	<10	N	70	<.05	4
I96R2400	20	N	N	5	N	N	N	70	N	N	N	200	<.05	5
I96R2450	20	<10	N	5	N	N	N	100	N	<10	N	100	<.05	5
I96R2490	20	10	N	7	N	<100	N	100	N	N	N	50	<.05	5
I96R2520	30	<10	N	10	N	N	N	150	N	10	N	70	<.05	5
I96R2565	15	<10	N	5	N	N	N	100	N	N	N	30	<.05	5
I96R2580	20	<10	N	7	N	N	N	100	N	N	N	30	<.05	6
I96R2590	30	N	N	7	N	N	N	100	N	<10	N	70	<.05	6
I96R2620	20	N	N	7	N	<100	N	100	N	<10	<200	50	<.05	6
I96R2640	15	<10	N	5	N	N	N	100	N	N	N	30	<.05	6
I96R2650	10	N	N	<5	N	N	N	70	N	N	N	70	<.05	6
I96R2670	30	50	N	7	N	N	N	100	N	<10	N	50	<.05	6
I96R2690	15	N	N	5	N	N	N	70	N	N	N	70	<.05	6
I96R2710	20	<10	N	10	N	N	N	70	N	<10	N	50	<.05	6
I96R2735	20	10	N	7	N	N	N	70	N	N	N	30	<.05	6
I96R2770	20	10	N	10	N	N	N	100	N	<10	N	50	<.05	6
I96R2800	15	<10	N	5	N	N	N	50	N	<10	N	30	.06	6
I96R2820	20	<10	N	7	N	N	N	50	N	<10	N	50	<.05	6
I96R2850	50	<10	N	10	N	N	N	70	N	<10	N	50	.05	6
I96R2880	30	20	N	7	N	N	N	70	N	N	N	30	.05	6
I96R2910	20	<10	N	5	N	N	N	50	N	N	N	30	.05	6
I96R2990	15	N	N	5	N	<100	N	50	N	N	N	30	<.05	6
I96R3040	30	<10	N	7	N	3,000	N	70	N	<10	<200	50	<.05	6
I96R3080	30	<10	N	5	N	N	N	50	N	N	N	30	<.05	6
I96R3120	30	N	N	7	N	N	N	150	N	<10	N	70	<.05	6
I96R3160	20	15	N	5	N	N	N	70	N	N	N	30	.05	6
I96R3200	20	<10	N	5	N	N	N	70	N	N	N	30	.05	6
I96R3240	15	<10	N	<5	N	100	N	50	N	N	N	20	.05	6
I96R3280	15	<10	N	5	N	N	N	50	N	N	N	30	.05	7
I96R3320	20	10	N	7	N	700	N	70	N	<10	N	70	.13	7
I96R3380	20	15	N	5	N	1,500	N	50	N	N	N	50	.25	7
I96R3430	20	<10	N	5	N	<100	N	70	N	N	<200	70	.19	7
I96R3480	20	15	N	7	N	500	N	100	N	N	N	100	.16	7
I96R3520	15	<10	N	5	N	N	N	70	N	N	<200	70	.27	7
I96R3560	20	20	N	7	N	N	N	100	N	N	N	50	.05	7
I96R3600	10	15	N	<5	N	N	N	50	N	N	N	30	.07	7
I96R3630	20	N	N	<5	N	N	N	70	N	N	N	50	.08	7

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 196, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I96R3680	37 43 15	88 46 8	.2	7	1	.5	N	.3	N	N	N	30
I96R3720	37 43 15	88 46 8	.05	5	1.5	1	N	.3	N	N	N	50
I96R3750	37 43 15	88 46 8	1	5	1	1	N	.5	N	N	N	50
I96R3790	37 43 15	88 46 8	.5	5	1	.5	N	.3	N	N	N	70
I96R3830	37 43 15	88 46 8	.7	2	.7	.5	N	.3	N	N	N	30
I96R3870	37 43 15	88 46 8	.15	3	.7	.3	N	.5	N	N	N	50
I96R3910	37 43 15	88 46 8	<.05	5	1.5	.5	N	.3	N	N	N	50
I96R3950	37 43 15	88 46 8	.15	.7	.3	<.2	N	.2	N	N	N	30
I96R3990	37 43 15	88 46 8	.1	2	1	.3	N	.2	N	N	N	50
I96R4030	37 43 15	88 46 8	.05	2	1.5	1	N	.3	N	N	N	50
I96R4070	37 43 15	88 46 8	.1	7	.7	<.2	N	.2	N	N	N	30
I96R4110	37 43 15	88 46 8	.07	2	1	.5	N	.3	N	N	N	50
I96R4150	37 43 15	88 46 8	.05	2	1	.5	N	.3	N	N	N	50
I96R4190	37 43 15	88 46 8	.2	1	.5	<.2	N	.15	N	N	N	30
I96R4230	37 43 15	88 46 8	.5	.7	.5	N	N	.1	N	N	N	30
I96R4270	37 43 15	88 46 8	.5	1	.5	<.2	N	.1	N	N	N	30
I96R4290	37 43 15	88 46 8	1.5	1	1	N	N	.1	N	N	N	30
I96R4310	37 43 15	88 46 8	.5	1.5	.7	.3	N	.15	<.5	N	N	50
I96R4340	37 43 15	88 46 8	3	2	1.5	.7	N	.2	N	N	N	50
I96R4360	37 43 15	88 46 8	5	3	1.5	.7	N	.3	N	N	N	70
I96R4570	37 43 15	88 46 8	.2	5	1.5	1.5	N	.5	N	N	N	100
I96R4640	37 43 15	88 46 8	.5	2	1	<.2	N	.15	N	N	N	30
I96R4650	37 43 15	88 46 8	.5	1.5	1	.2	N	.2	N	N	N	30

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I96R3680	70	<1	N	N	<10	30	20	15	N	N	50	N	N
I96R3720	100	1	N	N	<10	50	5	30	N	<50	30	N	N
I96R3750	70	<1	N	N	10	70	20	15	N	<50	20	N	N
I96R3790	70	<1	N	N	10	50	15	20	N	<50	30	N	N
I96R3830	700	<1	N	N	10	20	15	20	N	N	20	N	N
I96R3870	50	1	N	N	10	50	<5	20	N	<50	15	N	N
I96R3910	100	1.5	N	N	10	70	5	30	N	<50	15	N	N
I96R3950	70	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I96R3990	70	<1	N	N	<10	20	5	10	N	N	20	N	N
I96R4030	100	1	N	N	<10	70	7	30	N	N	15	N	N
I96R4070	50	<1	N	N	10	20	30	5	N	N	30	<5	N
I96R4110	70	<1	N	N	10	50	15	20	N	N	15	N	N
I96R4150	70	<1	N	N	<10	50	10	20	N	N	15	N	N
I96R4190	30	N	N	N	N	10	5	N	N	N	<10	N	N
I96R4230	30	N	N	N	N	<10	5	N	N	N	<10	N	N
I96R4270	50	N	N	N	N	<10	7	N	N	N	<10	N	N
I96R4290	20	N	N	N	N	<10	<5	N	N	N	<10	N	N
I96R4310	70	N	N	N	N	<10	15	N	N	N	10	N	N
I96R4340	200	<1	N	N	<10	30	20	15	N	N	20	N	N
I96R4360	500	1.5	N	N	<10	50	20	15	N	<50	70	<5	N
I96R4570	300	2	N	N	15	100	100	50	N	<50	100	50	N
I96R4640	50	N	N	N	N	10	20	<5	N	N	15	N	N
I96R4650	50	<1	N	N	<10	20	15	5	N	N	20	N	N

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I96, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I96R3680	30	300	N	<5	N	N	N	70	N	N	N	70	.47	7
I96R3720	20	<10	N	5	N	N	N	100	N	N	N	30	.09	7
I96R3750	50	<10	N	5	N	N	N	70	N	<10	N	100	.09	7
I96R3790	30	<10	N	5	N	N	N	70	N	<10	N	50	.09	7
I96R3830	20	N	N	<5	N	N	N	50	N	N	N	30	.07	7
I96R3870	20	N	N	5	N	N	N	70	N	<10	<200	50	.14	7
I96R3910	20	N	N	7	N	N	N	100	N	<10	N	50	.07	7
I96R3950	5	N	N	N	N	N	N	30	N	N	N	70	<.05	7
I96R3990	20	N	N	<5	N	N	N	50	N	N	N	50	.05	7
I96R4030	20	<10	N	7	N	N	N	70	N	<10	N	150	.05	7
I96R4070	30	<10	N	<5	N	<100	N	30	N	N	N	30	.05	7
I96R4110	15	N	N	5	N	N	N	50	N	<10	N	50	<.05	7
I96R4150	15	200	N	5	N	N	N	70	N	<10	N	70	<.05	7
I96R4190	10	N	N	N	N	300	N	50	N	N	N	30	<.05	7
I96R4230	7	N	N	N	N	1,500	N	20	N	N	N	20	.05	7
I96R4270	5	N	N	N	N	1,500	N	20	N	N	N	20	<.05	7
I96R4290	7	N	N	N	N	N	N	15	N	N	N	30	<.05	7
I96R4310	10	N	N	N	N	N	N	30	N	N	N	30	.05	7
I96R4340	20	<10	N	<5	N	<100	N	50	N	N	N	30	.06	7
I96R4360	30	150	N	5	N	<100	N	70	N	<10	N	50	.05	7
I96R4570	100	15	N	7	N	N	N	300	N	10	N	150	.05	10
I96R4640	20	N	N	N	N	N	N	30	N	N	N	20	<.05	10
I96R4650	20	N	N	<5	N	N	N	50	N	N	N	30	<.05	10

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 197, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	s	Fe-pct.	s	Mg-pct.	s	Na-pct.	s	P-pct.	s	Ti-pct.	s	Ag-ppm	s	As-ppm	s	Au-ppm	s	B-ppm	s
I971390	37 50 12	88 56 21	<.05		3		1		.2		N		1		N		N		N		150	
I971410	37 50 12	88 56 21	.05		3		.5		.3		N		.7		N		N		N		100	
I971430	37 50 12	88 56 21	.1		5		1		.3		N		.5		N		N		N		100	
I971450	37 50 12	88 56 21	.15		5		1		.5		N		.7		N		N		N		100	
I971470	37 50 12	88 56 21	.07		3		.7		.3		N		.7		N		N		N		150	
I971490	37 50 12	88 56 21	.07		2		.7		.3		N		.5		N		N		N		100	
I971510	37 50 12	88 56 21	.05		5		1		.7		N		.5		N		N		N		100	
I971530	37 50 12	88 56 21	.07		3		.7		.5		N		.7		N		N		N		100	
I971600	37 50 12	88 56 21	.2		3		.7		.5		N		.5		N		N		N		70	
I971770	37 50 12	88 56 21	.2		3		1		.3		N		.5		N		N		N		100	
I971790	37 50 12	88 56 21	.5		5		1.5		.5		N		.5		N		N		N		100	
I971820	37 50 12	88 56 21	.15		5		1		.5		N		.3		N		N		N		150	
I972000	37 50 12	88 56 21	.07		2		.5		.3		N		.3		N		N		N		70	
I972020	37 50 12	88 56 21	.07		3		.7		.3		N		.5		N		N		N		100	
I972050	37 50 12	88 56 21	.5		3		.5		.3		N		.5		N		N		N		100	
I972140	37 50 12	88 56 21	.05		2		.3		.3		N		.3		N		N		N		50	
I972160	37 50 12	88 56 21	.15		5		1		.7		N		.7		N		N		N		150	
I972180	37 50 12	88 56 21	1.5		5		2		.3		N		.3		N		N		N		100	
I972200	37 50 12	88 56 21	.1		5		1		.5		N		.5		N		N		N		100	
I972450	37 50 12	88 56 21	.07		3		.7		.3		N		.3		N		N		N		100	
I972470	37 50 12	88 56 21	.07		5		1		.5		N		.3		N		N		N		100	
I972530	37 50 12	88 56 21	.2		5		1		.5		N		.5		N		N		N		100	
I972580	37 50 12	88 56 21	.15		5		1.5		.5		N		.5		N		N		N		100	
I972610	37 50 12	88 56 21	.1		5		1		.3		N		.5		N		N		N		70	
I972640	37 50 12	88 56 21	.2		3		.7		.2		N		.5		N		N		N		70	
I972670	37 50 12	88 56 21	.15		3		1		.5		N		.5		N		N		N		70	
I972690	37 50 12	88 56 21	.07		3		.7		.2		N		.3		N		N		N		50	
I972710	37 50 12	88 56 21	.2		5		1		.7		N		.5		N		N		N		100	
I972730	37 50 12	88 56 21	.1		5		.7		.5		N		.3		N		N		N		70	
I972750	37 50 12	88 56 21	.15		5		1		.7		N		.3		N		N		N		70	
I972770	37 50 12	88 56 21	.15		5		1		.5		N		.5		N		N		N		100	
I972790	37 50 12	88 56 21	.07		5		.7		.3		N		.3		N		N		N		70	
I972810	37 50 12	88 56 21	.1		3		1		.3		N		.3		N		N		N		70	
I972830	37 50 12	88 56 21	.07		5		1		.7		N		.3		N		N		N		70	
I972850	37 50 12	88 56 21	.1		7		1		.3		N		.5		N		N		N		100	
I972870	37 50 12	88 56 21	.1		5		1		.5		N		.5		N		N		N		70	
I972890	37 50 12	88 56 21	.15		5		1		.5		N		.3		N		N		N		70	
I972910	37 50 12	88 56 21	.2		3		.7		.3		N		.5		N		N		N		150	
I972930	37 50 12	88 56 21	.1		3		1		.7		N		.3		N		N		N		70	
I972950	37 50 12	88 56 21	.15		5		1		.5		N		.5		N		N		N		100	
I972970	37 50 12	88 56 21	.07		3		.7		.3		N		.5		N		N		N		70	
I972990	37 50 12	88 56 21	.1		5		1		.2		N		.5		N		N		N		100	
I973010	37 50 12	88 56 21	.07		5		.7		.3		N		.5		N		N		N		100	
I973030	37 50 12	88 56 21	.07		3		1		.3		N		.7		N		N		N		70	
I973050	37 50 12	88 56 21	.7		3		.7		.2		N		.5		N		N		N		100	
I973070	37 50 12	88 56 21	.3		3		1		.2		N		.3		N		N		N		70	
I973090	37 50 12	88 56 21	1		5		.7		.2		N		.5		.5		N		N		100	
I973110	37 50 12	88 56 21	.5		5		.7		.2		N		.5		N		N		N		70	
I973130	37 50 12	88 56 21	.2		3		.7		.2		N		.5		N		N		N		100	
I973150	37 50 12	88 56 21	.1		3		.5		.3		N		.5		N		N		N		70	
I973170	37 50 12	88 56 21	.2		5		1		.3		N		.5		N		N		N		70	
I973190	37 50 12	88 56 21	.3		3		1		.2		N		.5		N		N		N		100	
I973210	37 50 12	88 56 21	.2		3		.7		.3		N		.3		N		N		N		70	
I973230	37 50 12	88 56 21	.15		3		.7		.2		N		.3		N		N		N		70	
I973250	37 50 12	88 56 21	.2		2		.5		.2		N		.5		N		N		N		100	
I973270	37 50 12	88 56 21	.15		2		.5		.2		N		.3		N		N		N		50	
I973290	37 50 12	88 56 21	.5		3		.5		<.2		N		.5		N		N		N		70	
I973310	37 50 12	88 56 21	.15		5		.7		.5		N		.7		N		N		N		100	
I973340	37 50 12	88 56 21	.2		3		1		.3		N		.5		N		N		N		100	
I973360	37 50 12	88 56 21	.07		5		1		.3		N		.5		N		N		N		100	

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 197, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
1971390	700	2	N	N	15	150	15	50	N	70	150	N	<20
1971410	5,000	1.5	N	N	10	70	30	50	N	70	70	<5	<20
1971430	150	1.5	N	N	15	100	50	70	N	<50	200	<5	N
1971450	100	1	N	N	15	70	70	70	N	<50	150	<5	N
1971470	300	1.5	N	N	10	100	50	30	N	50	200	<5	<20
1971490	200	1.5	N	N	10	50	30	30	N	<50	150	5	N
1971510	200	1.5	N	N	15	150	50	50	N	50	100	N	N
1971530	300	1.5	N	N	10	150	30	50	N	50	100	<5	N
1971600	150	1	N	N	<10	70	30	20	N	<50	70	N	N
1971770	200	1.5	N	N	<10	70	20	30	N	<50	70	N	N
1971790	150	1.5	N	N	10	150	50	50	N	50	70	N	N
1971820	200	1.5	N	N	10	100	50	30	N	50	70	5	N
1972000	100	<1	N	N	<10	100	20	20	N	<50	30	N	N
1972020	150	1	N	N	10	200	30	30	N	<50	50	N	N
1972050	500	1	N	N	<10	150	30	20	N	<50	50	<5	N
1972140	100	<1	N	N	<10	50	30	7	N	N	20	N	N
1972160	700	2	N	N	10	150	20	20	N	50	70	N	<20
1972180	100	1	N	N	10	150	20	50	N	N	100	<5	N
1972200	200	1.5	N	N	10	150	30	50	N	50	50	N	N
1972450	150	2	N	N	<10	100	10	30	N	<50	50	N	N
1972470	200	1.5	N	N	<10	70	20	30	N	<50	50	N	N
1972530	150	1.5	N	N	10	100	50	50	N	<50	100	N	<20
1972580	200	1.5	N	N	<10	100	50	30	N	50	100	5	<20
1972610	700	1	N	N	15	70	20	30	N	<50	50	N	<20
1972640	500	<1	N	N	10	100	15	15	N	<50	70	N	<20
1972670	300	1.5	N	N	10	150	20	50	N	<50	100	N	N
1972690	150	1	N	N	<10	70	10	30	N	<50	30	N	N
1972710	150	1.5	N	N	15	200	15	70	N	50	50	N	N
1972730	200	1	N	N	10	150	15	30	N	50	50	N	<20
1972750	150	1	N	N	10	150	15	50	N	<50	70	N	N
1972770	200	1.5	N	N	10	150	20	50	N	<50	70	N	N
1972790	100	1	N	N	10	150	15	30	N	<50	30	N	N
1972810	300	1.5	N	N	10	100	50	30	N	<50	50	N	N
1972830	100	1	N	N	10	150	20	50	N	<50	70	N	N
1972850	150	1.5	N	N	15	200	30	30	N	50	50	N	<20
1972870	150	1.5	N	N	10	100	50	50	N	<50	50	N	N
1972890	100	1.5	N	N	10	70	20	30	N	<50	50	N	N
1972910	200	2	N	N	<10	100	30	20	N	50	50	N	<20
1972930	100	1	N	N	10	70	15	30	N	<50	30	N	N
1972950	150	2	N	N	10	200	20	50	N	50	30	N	<20
1972970	200	1.5	N	N	<10	150	20	20	N	N	30	N	N
1972990	100	1.5	N	N	10	150	10	30	N	<50	20	N	N
1973010	2,000	1	N	N	10	100	30	50	N	<50	20	N	N
1973030	150	1	N	N	10	150	20	30	N	<50	20	N	N
1973050	1,000	1.5	N	N	<10	70	15	20	N	<50	15	<5	N
1973070	150	1.5	N	N	10	70	70	30	N	<50	20	N	N
1973090	150	1	N	N	10	70	70	30	N	<50	30	<5	N
1973110	150	1	N	N	10	100	30	30	N	<50	30	<5	N
1973130	100	1	N	N	<10	70	20	20	N	<50	50	N	N
1973150	70	<1	N	N	<10	150	15	30	N	<50	15	N	N
1973170	100	1.5	N	N	15	200	20	50	N	<50	30	N	N
1973190	150	1.5	N	N	10	150	50	30	N	<50	50	7	N
1973210	200	1	N	N	10	150	50	30	N	<50	20	5	N
1973230	150	1	N	N	<10	100	20	20	N	N	30	<5	N
1973250	100	1	N	N	N	50	30	15	N	N	15	N	N
1973270	100	<1	N	N	<10	50	70	20	N	N	30	<5	N
1973290	150	1	N	N	<10	70	50	15	N	N	100	10	N
1973310	200	2	N	N	15	150	50	50	N	50	70	N	N
1973340	150	2	N	N	10	70	20	30	N	50	30	N	N
1973360	>5,000	1.5	N	N	10	200	20	50	N	<50	50	N	N

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 197, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I971390	50	<10	N	15	N	N	N	150	N	10	N	100	.06	3
I971410	50	10	N	10	N	<100	N	100	N	10	N	150	.06	3
I971430	30	15	N	10	N	N	N	100	N	<10	N	100	.1	3
I971450	30	15	N	7	N	N	N	70	N	<10	N	100	.13	3
I971470	50	10	N	10	N	N	N	100	N	10	N	150	.17	3
I971490	20	<10	N	7	N	N	N	70	N	<10	N	100	.11	3
I971510	50	<10	N	10	N	N	N	100	N	10	<200	100	.13	3
I971530	30	<10	N	10	N	N	N	100	N	10	N	100	.11	3
I971600	20	N	N	5	N	N	N	100	N	10	N	150	.08	3
I971770	30	N	N	7	N	N	N	70	N	<10	N	70	.1	3
I971790	50	10	N	10	N	N	N	100	N	<10	N	70	.1	3
I971820	30	N	N	7	N	N	N	100	N	<10	N	70	.12	3
I972000	30	<10	N	5	N	N	N	70	N	<10	N	300	.053	4
I972020	50	500	N	10	N	N	N	150	N	10	N	150	.091	4
I972050	50	N	N	7	N	N	N	100	N	<10	N	100	.1	4
I972140	15	N	N	<5	N	N	N	50	N	<10	N	100	.07	4
I972160	50	<10	N	7	N	N	N	100	N	15	N	150	.08	4
I972180	30	10	N	7	N	N	N	70	N	<10	N	50	.16	4
I972200	30	<10	N	7	N	N	N	100	N	10	N	70	.14	4
I972450	30	<10	N	10	N	N	N	100	N	<10	N	100	.08	6
I972470	30	N	N	7	N	N	N	150	N	<10	N	50	.073	6
I972530	50	<10	N	7	N	100	N	100	N	10	N	100	.1	6
I972580	50	<10	N	7	N	N	N	150	N	10	N	150	.1	6
I972610	50	<10	N	7	N	N	N	100	N	10	N	100	.08	6
I972640	50	N	N	5	N	N	N	70	N	10	N	500	.083	6
I972670	30	<10	N	10	N	N	N	100	N	10	N	100	.07	6
I972690	30	N	N	5	N	N	N	100	N	<10	N	150	.09	6
I972710	70	N	N	10	N	N	N	150	N	10	N	70	.11	6
I972730	50	N	N	7	N	N	N	100	N	10	N	100	.11	6
I972750	50	<10	N	7	N	N	N	100	N	10	N	100	.12	6
I972770	50	10	N	7	N	N	N	100	N	10	N	100	.1	6
I972790	50	10	N	5	N	<100	N	100	N	<10	<200	70	.1	6
I972810	30	<10	N	7	N	N	N	100	N	<10	N	70	.09	6
I972830	50	<10	N	7	N	N	N	100	N	<10	N	70	.1	6
I972850	70	<10	N	10	N	<100	N	100	N	10	N	70	.092	6
I972870	50	10	N	7	N	N	N	100	N	10	N	70	.1	6
I972890	50	N	N	7	N	N	N	100	N	<10	N	70	.08	6
I972910	30	N	N	7	N	N	N	150	N	10	N	150	.1	6
I972930	30	<10	N	5	N	N	N	70	N	<10	N	70	.092	6
I972950	50	<10	N	10	N	N	N	150	N	10	N	100	.14	6
I972970	30	<10	N	5	N	N	N	70	N	<10	N	100	.09	6
I972990	50	N	N	7	N	N	N	100	N	<10	N	70	.08	6
I973010	30	N	N	7	N	N	N	70	N	<10	N	70	.11	6
I973030	50	N	N	7	N	N	N	70	N	<10	N	100	.093	6
I973050	50	N	N	7	N	100	N	100	N	<10	N	150	.11	6
I973070	30	N	N	5	N	150	N	70	N	<10	N	70	.16	7
I973090	70	<10	N	7	N	200	N	100	N	<10	N	100	.15	7
I973110	50	N	N	7	N	100	N	70	N	<10	N	100	.16	7
I973130	50	N	N	5	N	<100	N	70	N	<10	N	150	.14	7
I973150	30	N	N	5	N	<100	N	100	N	<10	N	100	.09	7
I973170	70	<10	N	7	N	100	N	100	N	<10	N	70	.17	7
I973190	70	10	N	7	N	150	N	150	N	10	N	100	.16	7
I973210	50	10	N	7	N	2,000	N	100	N	<10	N	70	.14	7
I973230	50	N	N	5	N	200	N	70	N	N	<200	70	.11	7
I973250	20	N	N	5	N	N	N	70	N	N	500	150	.19	7
I973270	20	<10	N	<5	N	150	N	50	N	N	N	50	--	7
I973290	50	N	N	5	N	150	N	70	N	<10	N	150	.18	7
I973310	70	<10	N	10	N	N	N	100	N	10	N	150	.11	7
I973340	50	N	N	7	N	N	N	100	N	<10	N	100	.11	7
I973360	70	<10	N	10	N	<100	N	70	N	10	N	100	.09	7

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 197, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
1973380	37 50 12	88 56 21	.3	3	.7	.2	N	.5	N	N	N	100
1973400	37 50 12	88 56 21	.1	5	1	.3	N	.7	N	N	N	100
1973420	37 50 12	88 56 21	.07	5	1	.3	N	.5	N	N	N	100
1973440	37 50 12	88 56 21	.1	1.5	.3	<.2	N	.2	N	N	N	70
1973460	37 50 12	88 56 21	.2	3	.7	.2	N	.5	N	N	N	100
1973480	37 50 12	88 56 21	.15	2	.5	.3	N	.7	N	N	N	100
1973500	37 50 12	88 56 21	.3	3	.5	.2	N	.5	N	N	N	100
1973520	37 50 12	88 56 21	.5	2	.7	.3	N	.5	N	N	N	70
1973540	37 50 12	88 56 21	.2	3	1	.5	N	.3	N	N	N	70
1973560	37 50 12	88 56 21	.2	5	1	.5	N	.5	N	N	N	100
1973580	37 50 12	88 56 21	.2	5	1	.3	N	.5	N	N	N	100
1973600	37 50 12	88 56 21	.15	5	1	.3	N	.5	N	N	N	50
1973620	37 50 12	88 56 21	.2	5	1	.5	N	.7	N	N	N	100
1973640	37 50 12	88 56 21	.1	3	.5	.3	N	.5	N	N	N	70
1973660	37 50 12	88 56 21	.2	5	.7	.3	N	.7	N	N	N	100
1973680	37 50 12	88 56 21	.1	3	.5	.2	N	.3	N	N	N	70
1973700	37 50 12	88 56 21	.5	5	.7	.5	N	.5	N	N	N	50
1973720	37 50 12	88 56 21	.2	2	.3	<.2	N	.3	N	N	N	70
1973740	37 50 12	88 56 21	.2	3	.7	.2	N	.5	N	N	N	100
1973760	37 50 12	88 56 21	.1	1.5	.3	<.2	N	.2	N	N	N	50
1973780	37 50 12	88 56 21	.1	2	.7	<.2	N	.3	N	N	N	100
1973800	37 50 12	88 56 21	.1	3	.7	.2	N	.5	N	N	N	100
1973820	37 50 12	88 56 21	.5	5	1.5	.5	N	.7	N	N	N	100
1973840	37 50 12	88 56 21	.1	5	1.5	.7	N	.7	N	N	N	100
1973860	37 50 12	88 56 21	.15	7	.7	.2	N	.5	N	N	N	100
1973880	37 50 12	88 56 21	.15	3	1	.3	N	.5	N	N	N	100
1973900	37 50 12	88 56 21	.3	1	.2	<.2	N	.2	N	N	N	50
1973920	37 50 12	88 56 21	.15	2	.3	.3	N	.3	<.5	N	N	70
1973940	37 50 12	88 56 21	.2	1.5	.3	.2	N	.3	N	N	N	70
1973960	37 50 12	88 56 21	.3	1	.2	<.2	N	.15	N	N	N	50
1973980	37 50 12	88 56 21	.07	1.5	.3	.2	N	.3	N	N	N	70
1974000	37 50 12	88 56 21	.2	1.5	.3	<.2	N	.2	N	N	N	50
1974020	37 50 12	88 56 21	.15	1.5	.3	<.2	N	.3	N	N	N	50
1974040	37 50 12	88 56 21	.3	3	.7	.3	N	.5	N	N	N	70
1974060	37 50 12	88 56 21	.15	2	.5	.5	N	.3	N	N	N	70
1974080	37 50 12	88 56 21	.1	5	.7	.3	N	.5	N	N	N	100
1974100	37 50 12	88 56 21	.3	2	.7	.2	N	.5	N	N	N	100
1974120	37 50 12	88 56 21	.5	1	.3	.2	N	.2	N	N	N	70
1974140	37 50 12	88 56 21	1.5	2	1	<.2	N	.5	N	N	N	100
1974170	37 50 12	88 56 21	3	1	1.5	2	N	.3	N	N	N	70
1974340	37 50 12	88 56 21	1.5	5	2	5	N	.5	N	N	N	100
1974360	37 50 12	88 56 21	.7	7	.7	3	N	.5	N	N	N	100
1974380	37 50 12	88 56 21	.15	5	.7	<.2	N	.3	N	N	N	50
1974400	37 50 12	88 56 21	.1	5	.7	.3	N	.7	N	N	N	150
1974420	37 50 12	88 56 21	.07	5	1.5	.3	N	.5	N	N	N	100
1974440	37 50 12	88 56 21	.2	2	1	.2	N	.5	N	N	N	70
1974460	37 50 12	88 56 21	.15	3	.7	<.2	N	.3	N	N	N	100
1974480	37 50 12	88 56 21	.1	5	1.5	.7	N	.5	N	N	N	100
1974510	37 50 12	88 56 21	.2	3	.5	.2	N	.5	N	N	N	70
1974540	37 50 12	88 56 21	.05	2	.3	<.2	N	.3	N	N	N	50
1974560	37 50 12	88 56 21	.07	1.5	.5	.2	N	.5	N	N	N	70
1974580	37 50 12	88 56 21	.15	1.5	.3	.2	N	.5	N	N	N	50
1974600	37 50 12	88 56 21	.07	1.5	.3	<.2	N	.2	N	N	N	50
1974620	37 50 12	88 56 21	.07	1	.2	N	N	.15	N	N	N	30
1974640	37 50 12	88 56 21	.7	1.5	.5	<.2	N	.2	N	N	N	50
1974670	37 50 12	88 56 21	.05	.15	.05	N	N	.05	N	N	N	20

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I97, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I973380	200	1.5	N	N	<10	100	20	50	N	<50	30	N	N
I973400	150	1.5	N	N	10	200	30	50	N	50	50	N	<20
I973420	100	1.5	N	N	10	150	30	70	N	<50	30	N	<20
I973440	30	1	N	N	N	10	50	<5	N	N	30	N	N
I973460	100	1	N	N	N	50	70	30	N	<50	70	20	N
I973480	70	1.5	N	N	10	70	15	10	N	N	20	N	N
I973500	150	1	N	N	<10	70	50	20	N	N	30	N	N
I973520	150	1	N	N	<10	70	20	30	N	<50	30	N	N
I973540	100	1	N	N	<10	150	150	70	N	<50	70	N	N
I973560	150	1.5	N	N	10	150	100	50	N	<50	150	N	N
I973580	200	1.5	N	N	10	150	50	50	N	<50	70	N	N
I973600	100	1	N	N	10	150	20	50	N	<50	100	N	N
I973620	200	2	N	N	20	200	100	50	N	50	50	N	<20
I973640	100	1.5	N	N	<10	70	70	30	N	N	30	N	N
I973660	150	1.5	N	N	10	300	70	30	N	<50	50	N	<20
I973680	100	1	N	N	<10	50	70	15	N	N	20	N	N
I973700	200	1	N	N	10	100	30	50	N	<50	50	5	N
I973720	50	<1	N	N	<10	20	10	5	N	N	200	N	N
I973740	70	1.5	N	N	<10	100	200	20	N	N	50	N	N
I973760	150	<1	N	N	N	15	15	7	N	N	20	N	N
I973780	70	1	N	N	N	20	30	15	N	N	15	N	N
I973800	100	1	N	N	<10	50	10	20	N	N	20	N	N
I973820	150	2	N	N	10	150	15	50	N	<50	50	N	N
I973840	200	1.5	N	N	10	150	15	50	N	50	30	N	N
I973860	150	1.5	N	N	<10	70	70	30	N	<50	50	<5	N
I973880	150	1.5	N	N	<10	70	15	30	N	<50	30	N	N
I973900	70	N	N	N	N	<10	10	N	N	N	<10	N	N
I973920	100	<1	N	N	N	20	20	15	N	N	15	N	N
I973940	100	<1	N	N	N	20	10	10	N	N	15	N	N
I973960	150	N	N	N	N	<10	5	N	N	N	10	N	N
I973980	100	<1	N	N	N	15	10	10	N	N	15	N	N
I974000	50	<1	N	N	N	10	7	<5	N	N	15	N	N
I974020	200	<1	N	N	N	20	20	10	N	N	20	N	N
I974040	150	1	N	N	50	50	20	20	N	N	30	N	<20
I974060	150	1	N	N	<10	30	30	20	N	N	20	N	N
I974080	150	1	N	N	10	50	50	30	N	<50	30	N	N
I974100	100	<1	N	N	<10	50	15	15	N	N	20	N	N
I974120	2,000	N	N	N	<10	10	10	5	N	N	10	N	N
I974140	700	N	N	N	N	<10	10	N	N	N	N	N	N
I974170	150	N	N	N	N	<10	10	<5	N	N	15	N	N
I974340	200	1.5	N	N	<10	50	70	30	N	<50	150	7	N
I974360	200	1	N	N	10	30	50	20	N	<50	100	5	N
I974380	100	N	N	N	N	<10	20	N	N	N	N	<5	N
I974400	300	2	N	N	15	50	50	20	N	<50	1,000	<5	<20
I974420	300	1.5	N	N	10	70	20	50	N	N	30	N	N
I974440	2,000	1	N	N	10	50	15	20	N	N	50	N	N
I974460	100	1	N	N	<10	30	100	20	N	N	70	<5	N
I974480	150	1.5	N	N	10	100	10	50	N	<50	100	<5	N
I974510	100	1	N	N	10	30	15	15	N	<50	30	N	N
I974540	70	<1	N	N	<10	15	10	5	N	<50	15	N	N
I974560	100	1	N	N	<10	30	15	20	N	<50	30	N	N
I974580	100	<1	N	N	N	20	10	10	N	N	30	N	N
I974600	50	N	N	N	N	10	<5	7	N	N	10	N	N
I974620	30	N	N	N	N	<10	<5	N	N	N	<10	N	N
I974640	70	N	N	N	N	10	15	10	N	N	15	N	N
I974670	<20	N	N	N	N	N	N	N	N	N	20	N	N

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 197, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
1973380	30	N	N	7	N	N	N	100	N	<10	N	70	.1	7
1973400	70	N	N	10	N	N	N	150	N	10	N	100	.11	7
1973420	50	<10	N	7	N	N	N	100	N	<10	N	70	.11	7
1973440	10	N	N	<5	N	N	N	50	N	N	N	20	--	7
1973460	20	N	N	5	N	N	N	100	N	<10	N	70	--	7
1973480	50	N	N	5	N	N	N	70	N	N	<200	100	.15	7
1973500	30	N	N	5	N	N	N	100	N	<10	<200	200	.17	7
1973520	30	N	N	7	N	<100	N	70	N	<10	N	150	.14	7
1973540	50	<10	N	7	N	N	N	70	N	N	N	70	--	7
1973560	70	<10	N	7	N	N	N	100	N	10	N	100	.14	7
1973580	70	<10	N	7	N	N	N	100	N	<10	N	150	.11	7
1973600	50	<10	N	7	N	N	N	70	N	<10	N	100	.1	7
1973620	70	<10	N	10	N	N	N	150	N	10	N	200	.093	7
1973640	50	<10	N	5	N	N	N	70	N	N	N	150	.093	7
1973660	70	<10	N	7	N	N	N	100	N	10	N	300	.11	7
1973680	30	N	N	<5	N	N	N	70	N	N	300	150	1.4	7
1973700	50	10	N	5	N	N	N	70	N	10	N	100	.76	7
1973720	15	N	N	<5	N	N	N	50	N	N	N	50	.09	7
1973740	50	N	N	5	N	N	N	100	N	<10	N	100	--	7
1973760	15	N	N	<5	N	N	N	50	N	N	<200	50	.08	7
1973780	15	N	N	<5	N	N	N	70	N	N	N	30	.08	7
1973800	30	N	N	5	N	N	N	100	N	<10	N	50	.09	7
1973820	50	<10	N	7	N	N	N	150	N	10	N	100	.09	7
1973840	50	10	N	10	N	N	N	150	N	10	N	70	.1	7
1973860	50	<10	N	7	N	200	N	100	N	<10	N	70	.08	7
1973880	30	<10	N	7	N	N	N	100	N	<10	N	100	.11	7
1973900	10	N	N	N	N	N	N	30	N	N	N	20	.084	7
1973920	20	N	N	<5	N	N	N	50	N	N	200	50	.09	7
1973940	15	N	N	<5	N	N	N	70	N	N	N	50	.092	7
1973960	7	N	N	N	N	100	N	30	N	N	N	20	.11	7
1973980	15	N	N	<5	N	N	N	50	N	N	N	70	.06	7
1974000	15	N	N	N	N	N	N	50	N	N	N	30	.08	7
1974020	15	N	N	<5	N	N	N	50	N	N	N	50	.1	7
1974040	50	N	N	5	N	N	N	70	500	N	N	70	.092	7
1974060	30	N	N	<5	N	N	N	50	N	N	N	70	.092	7
1974080	50	<10	N	5	N	N	N	100	N	<10	N	70	.084	7
1974100	30	N	N	5	N	N	N	100	N	N	N	50	.08	7
1974120	15	N	N	<5	N	N	N	50	500	N	N	70	.06	7
1974140	30	N	N	N	N	N	N	50	N	N	N	30	.07	8
1974170	15	N	N	N	N	N	N	50	N	N	N	30	.06	8
1974340	30	<10	N	7	N	N	N	100	N	<10	N	70	.07	10
1974360	30	<10	N	5	N	N	N	100	<20	<10	N	70	.092	10
1974380	15	N	N	<5	N	N	N	50	N	N	N	50	.092	10
1974400	30	10	N	5	N	N	N	150	N	<10	N	300	.16	10
1974420	30	<10	N	7	N	N	N	100	N	<10	N	70	.1	10
1974440	30	<10	N	5	N	N	N	100	N	N	N	70	.1	10
1974460	20	70	N	5	N	<100	N	70	N	N	N	50	.06	10
1974480	30	10	N	7	N	N	N	100	N	<10	N	70	.12	10
1974510	30	<10	N	5	N	N	N	70	N	<10	N	70	.07	10
1974540	15	N	N	<5	N	N	N	50	N	N	N	30	.06	10
1974560	15	N	N	<5	N	N	N	70	N	<10	N	100	.13	10
1974580	10	N	N	<5	N	N	N	70	N	N	N	150	.06	10
1974600	10	N	N	N	N	N	N	50	N	N	N	30	.054	10
1974620	5	N	N	N	N	N	N	30	N	N	N	20	.03	10
1974640	10	N	N	<5	N	N	N	50	N	N	N	30	.013	10
1974670	N	N	N	N	N	N	N	<10	N	N	N	20	.024	10

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I98R1490	37 51 21	89 3 12	N	2	1	<.2	N	.3
I98R1520	37 51 21	89 3 12	N	3	1	.2	N	.3
I98R1670	37 51 21	89 3 12	<.05	5	1.5	.3	N	.3
I98R1710	37 51 21	89 3 12	.05	5	3	.7	N	.3
I98R1750	37 51 21	89 3 12	.05	3	2	.7	N	.3
I98R1790	37 51 21	89 3 12	N	2	2	.5	N	.5
I98R1830	37 51 21	89 3 12	<.05	2	1.5	.5	N	.3
I98R1870	37 51 21	89 3 12	.05	2	.7	.2	N	.3
I98R1910	37 51 21	89 3 12	N	5	1.5	.5	N	.3
I98R1950	37 51 21	89 3 12	N	2	1	.5	N	.2
I98R1990	37 51 21	89 3 12	N	1.5	.7	.5	N	.2
I98R2030	37 51 21	89 3 12	.07	5	1.5	.7	N	.5
I98R2070	37 51 21	89 3 12	.07	2	1.5	.3	N	.5
I98R2110	37 51 21	89 3 12	.2	5	2	1	N	.3
I98R2150	37 51 21	89 3 12	.05	5	2	.5	N	.3
I98R2190	37 51 21	89 3 12	<.05	3	1	.5	N	.3
I98R2290	37 51 21	89 3 12	.2	2	1	.5	N	.2
I98R2330	37 51 21	89 3 12	.07	5	2	.3	N	.3
I98R2370	37 51 21	89 3 12	.1	5	1.5	.5	N	.5
I98R2420	37 51 21	89 3 12	.07	3	1	.7	N	.3
I98R2440	37 51 21	89 3 12	N	2	.7	.2	N	.2
I98R2460	37 51 21	89 3 12	.15	5	1.5	.5	N	.3
I98R2480	37 51 21	89 3 12	<.05	3	1	.7	N	.2
I98R2500	37 51 21	89 3 12	.05	.7	.1	N	N	.1
I98R2540	37 51 21	89 3 12	<.05	2	1.5	<.2	N	.2
I98R2560	37 51 21	89 3 12	N	3	1.5	<.2	N	.3
I98R2580	37 51 21	89 3 12	N	2	1.5	<.2	N	.15
I98R2610	37 51 21	89 3 12	.1	3	1	<.2	N	.2
I98R2630	37 51 21	89 3 12	.05	5	2	<.2	N	.3
I98R2650	37 51 21	89 3 12	.15	.7	.15	N	N	.03
I98R2670	37 51 21	89 3 12	.7	7	2	N	N	.3
I98R2710	37 51 21	89 3 12	.3	.5	.03	N	N	.02
I98R2740	37 51 21	89 3 12	1	2	1	N	N	.2
I98R2770	37 51 21	89 3 12	.1	.3	.03	N	N	.03
I98R2800	37 51 21	89 3 12	.2	.5	.05	N	N	.02
I98R2830	37 51 21	89 3 12	.05	1.5	.7	N	N	.2
I98R2860	37 51 21	89 3 12	<.05	1	.3	N	N	.15
I98R2900	37 51 21	89 3 12	.07	2	1	<.2	N	.2
I98R2930	37 51 21	89 3 12	.05	2	1	N	N	.3
I98R2960	37 51 21	89 3 12	.15	5	1.5	<.2	N	.3
I98R3000	37 51 21	89 3 12	.07	5	3	.2	N	.3
I98R3040	37 51 21	89 3 12	.15	3	2	<.2	N	.2
I98R3080	37 51 21	89 3 12	<.05	3	2	<.2	N	.3
I98R3120	37 51 21	89 3 12	.3	5	3	.2	N	.3
I98R3160	37 51 21	89 3 12	.2	7	3	<.2	N	.5
I98R3200	37 51 21	89 3 12	.5	7	2	N	N	.5
I98R3240	37 51 21	89 3 12	1	5	2	.2	N	.5
I98R3280	37 51 21	89 3 12	.1	5	2	<.2	N	.3
I98R3300	37 51 21	89 3 12	.07	5	2	<.2	N	.3
I98R3330	37 51 21	89 3 12	.05	5	2	.2	N	.3
I98R3380	37 51 21	89 3 12	<.05	3	2	<.2	N	.2
I98R3410	37 51 21	89 3 12	.05	7	2	.2	N	.3
I98R3450	37 51 21	89 3 12	<.05	5	2	<.2	N	.3
I98R3500	37 51 21	89 3 12	.1	5	3	<.2	N	.3
I98R3550	37 51 21	89 3 12	.05	5	2	<.2	N	.2
I98R3600	37 51 21	89 3 12	.07	5	2	<.2	N	.3
I98R3650	37 51 21	89 3 12	<.05	1.5	1	N	N	.15
I98R3700	37 51 21	89 3 12	.07	.5	.15	N	N	.05
I98R3750	37 51 21	89 3 12	<.05	2	1	N	N	.15
I98R3800	37 51 21	89 3 12	.1	.5	.2	N	N	.03

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I98, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I98R1490	N	N	N	50	700	1	N	N	10	50	20
I98R1520	N	N	N	50	500	<1	N	N	10	70	15
I98R1670	N	N	N	50	150	1	N	N	10	50	20
I98R1710	N	N	N	70	150	1	N	N	15	100	50
I98R1750	N	N	N	50	150	1.5	N	N	10	70	20
I98R1790	N	N	N	70	150	1	N	N	<10	70	10
I98R1830	N	N	N	50	200	1	N	N	<10	70	30
I98R1870	N	N	N	30	70	<1	N	N	<10	30	15
I98R1910	N	N	N	50	500	<1	N	N	15	100	50
I98R1950	N	N	N	30	200	<1	N	N	<10	70	15
I98R1990	N	N	N	10	50	N	N	N	<10	30	10
I98R2030	N	N	N	30	100	1	N	N	10	70	15
I98R2070	N	N	N	70	200	2	N	N	10	70	20
I98R2110	N	N	N	50	300	1.5	N	N	15	100	30
I98R2150	N	N	N	70	1,000	1.5	N	N	10	100	100
I98R2190	N	N	N	30	150	N	N	N	<10	70	50
I98R2290	N	N	N	30	150	<1	N	N	<10	30	10
I98R2330	N	N	N	50	100	1.5	N	N	10	100	10
I98R2370	N	N	N	70	700	2	N	N	15	70	30
I98R2420	N	N	N	30	300	N	N	N	<10	50	15
I98R2440	N	N	N	20	70	<1	N	N	<10	100	5
I98R2460	N	N	N	70	200	1.5	N	N	<10	70	10
I98R2480	N	N	N	30	300	<1	N	N	10	50	7
I98R2500	N	N	N	<10	1,500	N	N	N	N	<10	<5
I98R2540	N	N	N	30	200	1	N	N	<10	50	70
I98R2560	N	N	N	30	150	<1	N	N	<10	100	<5
I98R2580	N	N	N	15	150	N	N	N	<10	70	15
I98R2610	N	N	N	30	100	<1	N	N	<10	50	20
I98R2630	N	N	N	50	100	1	N	N	10	70	10
I98R2650	N	N	N	20	<20	N	N	N	N	N	5
I98R2670	N	N	N	70	150	1.5	N	N	10	100	15
I98R2710	N	N	N	15	N	N	N	N	N	N	<5
I98R2740	N	N	N	30	1,000	N	N	50	N	20	10
I98R2770	N	N	N	20	20	N	N	N	N	N	N
I98R2800	N	N	N	15	30	N	N	N	N	N	5
I98R2830	<.5	N	N	50	50	N	N	N	N	50	15
I98R2860	N	N	N	30	30	N	N	N	N	15	10
I98R2900	N	N	N	50	100	N	N	N	N	30	15
I98R2930	N	N	N	70	100	N	N	N	N	30	10
I98R2960	N	N	N	70	150	<1	N	N	10	30	30
I98R3000	N	N	N	100	150	1.5	N	N	10	100	20
I98R3040	N	N	N	70	70	<1	N	N	<10	50	5
I98R3080	N	N	N	50	200	<1	N	N	<10	70	7
I98R3120	N	N	N	70	100	<1	N	N	10	150	7
I98R3160	N	N	N	100	150	1	N	N	10	150	<5
I98R3200	N	N	N	100	200	1.5	N	N	15	150	10
I98R3240	N	N	N	100	300	1.5	N	N	<10	100	20
I98R3280	N	N	N	70	200	1	N	N	<10	50	10
I98R3300	N	N	N	50	100	<1	N	N	10	100	<5
I98R3330	N	N	N	50	150	<1	N	N	10	100	30
I98R3380	N	N	N	70	100	<1	N	N	<10	50	<5
I98R3410	N	N	N	70	150	<1	N	N	15	100	10
I98R3450	N	N	N	70	100	1	N	N	20	100	20
I98R3500	N	N	N	100	150	1.5	N	N	10	70	<5
I98R3550	N	N	N	70	70	1	N	N	10	100	5
I98R3600	N	N	N	100	100	1	N	N	10	100	<5
I98R3650	N	N	N	50	50	N	N	N	N	20	100
I98R3700	N	N	N	50	<20	N	N	N	N	N	<5
I98R3750	N	N	N	70	100	<1	N	N	N	30	7
I98R3800	N	N	N	30	<20	N	N	N	N	N	<5

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I98R1490	20	N	<50	30	N	N	20	N	N
I98R1520	15	N	<50	20	N	N	30	<10	N
I98R1670	15	N	N	70	<5	N	50	<10	N
I98R1710	50	N	N	50	<5	N	50	15	N
I98R1750	20	N	<50	15	N	N	30	<10	N
I98R1790	20	N	<50	20	N	N	20	<10	N
I98R1830	30	N	<50	30	N	N	20	50	N
I98R1870	5	N	N	50	N	N	15	10	N
I98R1910	30	N	N	10	<5	N	50	20	N
I98R1950	10	N	N	20	N	N	20	<10	N
I98R1990	7	N	N	10	N	N	15	10	N
I98R2030	30	N	<50	200	N	N	20	10	N
I98R2070	30	N	<50	30	N	N	30	10	N
I98R2110	50	N	<50	50	N	N	50	15	N
I98R2150	50	N	<50	50	N	N	50	20	N
I98R2190	15	N	N	20	N	N	30	20	N
I98R2290	15	N	N	150	N	N	20	10	N
I98R2330	30	N	N	50	N	N	50	<10	N
I98R2370	20	N	N	30	N	N	50	<10	N
I98R2420	15	N	N	20	N	N	20	10	N
I98R2440	5	N	N	10	N	N	15	30	N
I98R2460	15	N	N	70	N	N	30	N	N
I98R2480	20	N	N	20	N	N	20	<10	N
I98R2500	N	10	N	N	N	N	N	N	N
I98R2540	10	N	N	15	N	N	15	30	N
I98R2560	10	N	N	15	N	N	20	200	N
I98R2580	20	N	N	<10	N	N	15	20	N
I98R2610	7	N	N	15	<5	N	30	15	N
I98R2630	20	N	N	15	<5	N	30	N	N
I98R2650	N	N	N	<10	N	N	<5	15	N
I98R2670	30	N	N	30	<5	N	30	1,000	N
I98R2710	N	N	N	N	N	N	N	300	N
I98R2740	10	N	N	10	N	N	10	30	N
I98R2770	N	N	N	N	N	N	5	20	N
I98R2800	N	N	N	N	N	N	5	<10	N
I98R2830	<5	N	N	<10	<5	N	30	100	N
I98R2860	N	N	N	<10	<5	N	15	200	N
I98R2900	5	N	N	15	5	N	20	10	N
I98R2930	5	N	N	10	10	N	20	<10	N
I98R2960	7	N	N	30	100	N	50	N	N
I98R3000	50	N	N	30	10	N	50	3,000	N
I98R3040	20	N	N	15	<5	N	20	15	N
I98R3080	20	N	N	15	N	N	30	<10	N
I98R3120	70	N	N	20	5	N	50	2,000	N
I98R3160	50	N	<50	20	N	N	50	10	N
I98R3200	30	N	N	30	5	N	50	20	N
I98R3240	30	N	<50	70	5	N	50	<10	N
I98R3280	<5	N	N	50	N	N	20	<10	N
I98R3300	30	N	N	15	N	N	30	<10	N
I98R3330	30	N	N	100	<5	N	30	100	N
I98R3380	15	N	N	20	N	N	20	15	N
I98R3410	30	N	N	20	N	N	70	<10	N
I98R3450	20	N	N	20	N	N	70	10	N
I98R3500	30	N	N	20	N	N	30	<10	N
I98R3550	50	N	N	15	N	N	30	10	N
I98R3600	20	N	N	20	N	N	20	N	N
I98R3650	5	N	N	10	N	N	10	2,000	N
I98R3700	N	N	N	<10	N	N	5	N	N
I98R3750	<5	N	N	10	N	N	15	N	N
I98R3800	N	N	N	N	N	N	5	N	N

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I98R1490	5	N	N	N	70	N	10	N	150	<.05	3
I98R1520	<5	N	N	N	50	N	N	N	70	<.05	3
I98R1670	5	N	N	N	50	N	<10	N	70	<.05	3
I98R1710	7	N	N	N	70	N	N	N	50	.09	3
I98R1750	7	N	N	N	70	N	<10	N	50	.05	3
I98R1790	7	N	N	N	70	N	<10	N	50	<.05	3
I98R1830	5	N	N	N	70	N	<10	<200	50	<.05	3
I98R1870	<5	N	N	N	50	N	N	N	150	<.05	3
I98R1910	7	N	N	N	70	30	<10	N	100	.05	3
I98R1950	<5	N	N	N	50	N	N	N	100	<.05	4
I98R1990	<5	N	N	N	50	N	N	N	300	<.05	4
I98R2030	7	N	N	N	70	N	<10	N	70	<.05	4
I98R2070	10	N	N	N	100	N	<10	N	100	.05	4
I98R2110	7	N	N	N	100	N	<10	N	70	<.05	5
I98R2150	10	N	N	N	150	N	<10	N	70	<.05	5
I98R2190	5	N	N	N	50	N	<10	N	150	<.05	5
I98R2290	<5	N	N	N	50	N	<10	N	70	<.05	5
I98R2330	7	N	N	N	70	N	<10	N	70	<.05	5
I98R2370	10	N	100	N	100	N	<10	N	100	<.05	5
I98R2420	<5	N	500	N	50	N	N	N	200	<.05	5
I98R2440	<5	N	N	N	50	N	N	N	200	<.05	6
I98R2460	7	N	N	N	70	N	<10	N	300	<.05	6
I98R2480	5	N	N	N	70	N	N	N	70	<.05	6
I98R2500	N	N	N	N	15	N	N	N	100	<.05	6
I98R2540	<5	N	N	N	50	N	N	N	70	.07	6
I98R2560	<5	N	N	N	50	N	<10	N	200	.06	6
I98R2580	<5	N	N	N	50	N	N	N	50	.07	6
I98R2610	<5	N	N	N	70	N	N	<200	200	.11	6
I98R2630	5	N	N	N	100	N	N	N	70	.11	6
I98R2650	N	N	N	N	15	N	N	N	10	.21	6
I98R2670	7	N	N	N	100	N	<10	1,000	70	.79	6
I98R2710	N	N	N	N	<10	N	N	N	<10	.27	6
I98R2740	<5	N	N	N	50	N	N	5,000	30	.87	6
I98R2770	N	N	N	N	20	N	N	<200	15	<.05	6
I98R2800	N	N	150	N	15	N	N	<200	10	.11	6
I98R2830	<5	N	N	N	100	N	N	N	150	.09	6
I98R2860	N	N	N	N	50	N	N	N	70	.2	6
I98R2900	<5	N	<100	N	70	N	N	200	70	.08	6
I98R2930	<5	N	N	N	70	N	N	N	200	.11	6
I98R2960	5	N	N	N	100	N	N	<200	150	.13	7
I98R3000	7	N	N	N	100	N	<10	<200	70	.22	7
I98R3040	5	N	N	N	50	N	N	N	50	.18	7
I98R3080	5	N	N	N	50	N	N	N	70	.13	7
I98R3120	7	N	N	N	70	N	N	N	50	.71	7
I98R3160	10	N	N	N	100	N	<10	N	50	.24	7
I98R3200	7	N	N	N	100	N	<10	1,500	150	.5	7
I98R3240	7	N	300	N	100	N	<10	200	150	.27	7
I98R3280	<5	N	N	N	50	N	N	<200	70	.14	7
I98R3300	5	N	N	N	70	N	N	N	50	.13	7
I98R3330	5	N	N	N	100	N	N	N	50	.13	7
I98R3380	<5	N	N	N	50	N	N	<200	70	.11	7
I98R3410	7	N	N	N	100	N	<10	N	70	.17	7
I98R3450	5	N	N	N	50	N	N	N	100	.34	7
I98R3500	7	N	N	N	70	N	<10	N	70	.19	7
I98R3550	5	N	N	N	70	N	N	300	30	--	7
I98R3600	5	N	N	N	70	N	<10	N	100	.13	7
I98R3650	<5	N	N	N	30	N	N	N	30	.09	7
I98R3700	N	N	N	N	10	N	N	N	10	.05	7
I98R3750	<5	N	N	N	50	<20	N	N	70	.07	7
I98R3800	N	N	N	N	10	20	N	N	20	<.05	7

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.
			s	s	s	s	s	s
I98R3850	37 51 21	89 3 12	.15	.7	.5	N	N	.05
I98R3880	37 51 21	89 3 12	.1	1	.7	.2	N	.07
I98R4200	37 51 21	89 3 12	.07	3	1	.7	N	.3
I98R4230	37 51 21	89 3 12	.07	1	.3	<.2	N	.1
I98R4250	37 51 21	89 3 12	.05	2	2	<.2	N	.3
I98R4280	37 51 21	89 3 12	<.05	7	3	<.2	N	.3
I98R4330	37 51 21	89 3 12	.05	2	.7	N	N	.15
I98R4360	37 51 21	89 3 12	N	.5	.1	N	N	.03
I98R4400	37 51 21	89 3 12	<.05	.5	.07	N	N	.03
I98R4450	37 51 21	89 3 12	<.05	.7	.2	N	N	.05
I98R4480	37 51 21	89 3 12	<.05	1	.3	N	N	.07
I98R4520	37 51 21	89 3 12	.05	.7	.1	N	N	.02
I98R4570	37 51 21	89 3 12	.15	.5	.2	N	N	.02
I98R4600	37 51 21	89 3 12	.07	2	1	N	N	.15
I98R4630	37 51 21	89 3 12	.1	.5	.15	N	N	.05
I98R4670	37 51 21	89 3 12	.15	2	1	<.2	N	.15
I98R4700	37 51 21	89 3 12	.07	.7	.1	N	N	.02
I98R4740	37 51 21	89 3 12	.05	1	.5	N	N	.1
I98R4780	37 51 21	89 3 12	.2	.2	.2	N	N	.02
I98R4830	37 51 21	89 3 12	.5	1	1	N	N	.07
I98R4870	37 51 21	89 3 12	.7	1	.5	<.2	N	.07
I98R4910	37 51 21	89 3 12	.5	.5	.3	<.2	N	.07
I98R4960	37 51 21	89 3 12	2	1.5	2	.2	N	.2
I98R5000	37 51 21	89 3 12	.7	1.5	2	.5	N	.3
I98R5050	37 51 21	89 3 12	.5	2	1.5	.3	N	.3
I98R5100	37 51 21	89 3 12	.3	1.5	1	.3	N	.3
I98R5150	37 51 21	89 3 12	.5	.7	.5	.3	N	.2
I98R5190	37 51 21	89 3 12	5	2	1.5	.5	N	.3
I98R5220	37 51 21	89 3 12	1.5	2	2	.5	N	.3
I98R5260	37 51 21	89 3 12	1.5	2	2	.2	N	.2
I98R5290	37 51 21	89 3 12	2	3	2	.3	N	.3
I98R5320	37 51 21	89 3 12	.2	3	2	1	N	.5
I98R5360	37 51 21	89 3 12	.2	5	3	2	N	.7
I98R5400	37 51 21	89 3 12	1	5	5	1.5	N	.7
I98R5450	37 51 21	89 3 12	.07	7	3	1.5	N	.7
I98R5500	37 51 21	89 3 12	.7	7	3	2	N	.7
I98R5550	37 51 21	89 3 12	.3	5	2	1.5	N	.5
I98R5580	37 51 21	89 3 12	.2	3	1	.7	N	.5
I98R5610	37 51 21	89 3 12	.7	3	3	.3	N	.3
I98R5800	37 51 21	89 3 12	.5	5	2	.5	N	.5
I98R5840	37 51 21	89 3 12	.07	5	2	.3	N	.5
I98R5872	37 51 21	89 3 12	.1	7	2	.7	N	.7
I98R5930	37 51 21	89 3 12	1	5	1.5	.2	N	.5
I98R5970	37 51 21	89 3 12	.2	5	.7	<.2	N	.5
I98R6000	37 51 21	89 3 12	1	5	1	<.2	N	.3
I98R6040	37 51 21	89 3 12	.3	3	.7	.2	N	.3
I98R6080	37 51 21	89 3 12	.3	5	.7	.3	N	.5
I98R6100	37 51 21	89 3 12	.1	7	1.5	.5	N	.7
I98R6160	37 51 21	89 3 12	.05	7	1.5	.7	N	.7
I98R6210	37 51 21	89 3 12	.07	5	2	.7	N	.7
I98R6240	37 51 21	89 3 12	.5	3	.5	<.2	N	.3
I98R6280	37 51 21	89 3 12	.2	5	3	.5	N	.5
I98R6320	37 51 21	89 3 12	.2	7	3	.5	N	.5
I98R6370	37 51 21	89 3 12	1.5	10	1	.2	N	.5
I98R6410	37 51 21	89 3 12	.05	7	2	.2	N	1
I98R6450	37 51 21	89 3 12	.7	7	1.5	.5	N	.7
I98R6500	37 51 21	89 3 12	.2	5	2	<.2	N	.7
I98R6550	37 51 21	89 3 12	.3	3	2	.5	N	.5
I98R6580	37 51 21	89 3 12	.1	1.5	.5	<.2	N	.5
I98R6620	37 51 21	89 3 12	<.05	1.5	.5	.2	N	.3

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I98, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I98R3850	N	N	N	30	<20	N	N	N	<10	<10	7
I98R3880	<.5	N	N	50	30	N	N	N	N	10	7
I98R4200	N	N	N	100	200	1.5	N	N	20	30	50
I98R4230	N	N	N	50	50	N	N	N	<10	N	30
I98R4250	N	N	N	70	150	<1	N	N	10	70	20
I98R4280	N	N	N	100	300	<1	N	N	10	150	50
I98R4330	N	N	N	70	100	N	N	N	N	N	5
I98R4360	N	N	N	20	>5,000	N	N	N	N	<10	<5
I98R4400	N	N	N	30	200	N	N	N	N	<10	<5
I98R4450	N	N	N	30	50	N	N	N	N	N	5
I98R4480	N	N	N	30	50	N	N	N	N	<10	20
I98R4520	N	N	N	30	20	N	N	N	N	N	<5
I98R4570	N	N	N	20	20	N	N	N	N	20	50
I98R4600	N	N	N	50	70	N	N	N	N	2,000	5
I98R4630	N	N	N	30	<20	N	N	N	N	<10	50
I98R4670	N	N	N	50	100	N	N	N	<10	10	15
I98R4700	N	N	N	<10	<20	N	N	N	10	N	5
I98R4740	N	N	N	50	20	N	N	N	N	<10	N
I98R4780	N	N	N	30	N	N	N	N	N	N	N
I98R4830	N	N	N	50	500	N	N	N	N	N	N
I98R4870	N	N	N	30	70	N	N	N	N	N	7
I98R4910	N	N	N	70	100	N	N	N	N	N	30
I98R4960	N	N	N	50	150	N	N	N	N	10	15
I98R5000	<.5	N	N	70	200	N	N	N	N	15	20
I98R5050	N	N	N	70	150	N	N	N	N	100	15
I98R5100	<.5	N	N	70	150	N	N	N	N	10	10
I98R5150	N	N	N	50	200	N	N	N	N	10	7
I98R5190	N	N	N	30	200	N	N	N	N	15	10
I98R5220	<.5	N	N	50	200	<1	N	N	N	20	20
I98R5260	N	N	N	70	200	<1	N	N	N	10	15
I98R5290	N	N	N	70	200	1	N	N	<10	30	20
I98R5320	N	N	N	100	500	1	N	N	<10	50	50
I98R5360	N	N	N	100	700	2	N	N	10	70	10
I98R5400	N	N	N	100	700	1.5	N	N	10	70	70
I98R5450	N	N	N	70	500	1	N	N	10	100	50
I98R5500	N	N	N	100	700	1.5	N	N	15	70	20
I98R5550	N	N	N	100	700	1	N	N	<10	150	30
I98R5580	N	N	N	100	300	<1	N	N	<10	50	30
I98R5610	N	N	N	50	150	N	N	N	N	150	20
I98R5800	N	N	N	100	200	1.5	N	N	<10	300	30
I98R5840	N	N	N	150	200	1.5	N	N	10	1,500	30
I98R5872	N	N	N	150	300	2	N	N	10	70	50
I98R5930	N	N	N	100	200	2	N	N	10	70	70
I98R5970	N	N	N	70	700	1	N	N	<10	30	30
I98R6000	N	N	N	100	200	<1	N	N	N	300	100
I98R6040	N	N	N	100	150	<1	N	N	<10	150	20
I98R6080	N	N	N	70	200	1	N	N	<10	50	50
I98R6100	N	N	N	70	300	1.5	N	N	10	50	50
I98R6160	.5	N	N	150	500	2	N	N	15	150	30
I98R6210	N	N	N	150	500	3	N	N	10	100	7
I98R6240	N	N	N	100	200	<1	N	N	N	10	50
I98R6280	N	N	N	70	200	1	N	N	15	150	100
I98R6320	N	N	N	150	5,000	1	N	N	15	200	70
I98R6370	N	N	N	100	500	<1	N	N	<10	300	70
I98R6410	N	N	N	200	300	1	N	N	20	200	70
I98R6450	N	N	N	100	500	1	N	N	15	100	70
I98R6500	N	N	N	150	1,000	1.5	N	N	15	50	50
I98R6550	N	N	N	150	2,000	2	N	N	<10	70	50
I98R6580	N	N	N	50	500	N	N	N	10	50	10
I98R6620	N	N	N	70	700	N	N	N	<10	30	15

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I98R3850	N	N	N	<10	N	N	7	N	N
I98R3880	N	N	N	10	N	N	10	N	N
I98R4200	10	N	<50	50	20	N	50	100	N
I98R4230	N	N	N	10	<5	N	15	N	N
I98R4250	5	N	<50	20	<5	<20	20	1,500	N
I98R4280	<5	N	N	15	5	<20	50	10,000	N
I98R4330	<5	N	N	N	N	N	10	50	N
I98R4360	N	N	N	N	N	N	<5	N	N
I98R4400	N	N	N	N	N	N	5	N	N
I98R4450	N	N	N	N	N	N	5	<10	N
I98R4480	N	N	N	<10	N	N	7	N	N
I98R4520	N	N	N	N	N	N	<5	N	N
I98R4570	N	N	N	<10	N	N	<5	10	N
I98R4600	<5	N	N	15	50	<20	15	N	N
I98R4630	N	N	N	<10	N	N	10	N	N
I98R4670	5	N	N	30	5	N	20	100	N
I98R4700	N	N	N	<10	N	N	15	N	N
I98R4740	N	N	N	<10	N	N	5	N	N
I98R4780	N	N	N	N	N	N	N	N	N
I98R4830	N	N	N	<10	N	N	5	10	N
I98R4870	N	N	N	20	N	N	<5	N	N
I98R4910	N	N	N	10	N	N	N	N	N
I98R4960	<5	N	N	15	N	N	7	10	N
I98R5000	5	N	N	20	N	N	7	10	N
I98R5050	7	N	N	20	<5	N	10	200	N
I98R5100	<5	N	N	20	N	N	10	150	N
I98R5150	N	N	N	10	N	N	<5	500	N
I98R5190	5	N	N	30	N	N	5	200	N
I98R5220	15	N	N	30	N	N	10	2,000	N
I98R5260	5	N	N	20	N	N	7	100	N
I98R5290	20	N	N	30	N	N	10	20	N
I98R5320	30	N	N	50	N	N	20	200	N
I98R5360	50	N	N	100	N	<20	50	15	N
I98R5400	50	N	<50	70	N	<20	30	20	N
I98R5450	50	N	N	70	N	N	50	500	N
I98R5500	50	N	N	200	N	<20	50	1,000	N
I98R5550	30	N	N	150	10	<20	20	700	N
I98R5580	10	N	N	70	5	<20	20	5,000	N
I98R5610	15	N	N	30	7	<20	15	5,000	N
I98R5800	50	N	<50	100	10	<20	50	10,000	N
I98R5840	30	N	<50	100	50	<20	70	5,000	N
I98R5872	70	N	50	200	<5	<20	100	3,000	N
I98R5930	70	N	N	150	5	<20	15	300	N
I98R5970	10	N	N	50	<5	N	10	2,000	N
I98R6000	7	N	N	70	15	N	7	3,000	N
I98R6040	7	N	N	100	7	<20	10	3,000	N
I98R6080	20	N	N	70	<5	N	10	1,000	N
I98R6100	70	N	N	150	<5	N	15	300	N
I98R6160	70	N	50	150	7	<20	100	>20,000	N
I98R6210	50	N	<50	200	N	N	70	1,000	N
I98R6240	10	N	N	100	5	N	10	200	N
I98R6280	100	N	N	200	5	N	30	100	N
I98R6320	50	N	N	100	10	N	50	200	N
I98R6370	30	N	N	150	15	<20	15	1,000	N
I98R6410	70	N	<50	70	5	<20	100	150	N
I98R6450	70	N	N	150	7	N	30	3,000	N
I98R6500	30	N	<50	100	10	N	50	20,000	N
I98R6550	70	N	<50	70	<5	N	20	5,000	N
I98R6580	10	N	N	20	N	<20	7	5,000	N
I98R6620	15	N	N	20	<5	N	10	7,000	N

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 198, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I98R3850	N	N	N	N	20	N	N	N	20	.13	7
I98R3880	N	N	N	N	20	N	N	N	30	.05	7
I98R4200	5	N	N	N	100	N	<10	N	70	.05	10
I98R4230	N	N	N	N	30	N	N	N	30	<.05	10
I98R4250	5	N	N	N	50	<20	<10	N	100	.07	10
I98R4280	5	N	N	N	70	200	N	N	200	.07	10
I98R4330	N	N	N	N	20	N	N	N	70	<.05	10
I98R4360	N	N	<100	N	<10	N	N	N	20	<.05	10
I98R4400	N	N	N	N	10	N	N	N	50	<.05	10
I98R4450	N	N	N	N	10	N	N	N	10	<.05	10
I98R4480	N	N	N	N	20	N	N	N	20	<.05	10
I98R4520	N	N	N	N	10	<20	N	<200	<10	<.05	10
I98R4570	N	N	N	N	<10	70	N	N	30	<.05	10
I98R4600	<5	N	N	N	30	1,000	N	N	70	<.05	10
I98R4630	N	N	N	N	10	<20	N	N	15	<.05	10
I98R4670	<5	N	N	N	50	N	N	N	50	<.05	10
I98R4700	N	N	N	N	<10	N	N	N	50	<.05	10
I98R4740	N	N	N	N	20	N	N	N	30	<.05	10
I98R4780	N	N	N	N	<10	N	N	N	10	<.05	10
I98R4830	N	N	1,500	N	15	N	N	N	15	<.05	10
I98R4870	N	N	N	N	20	N	N	N	30	<.05	10
I98R4910	N	N	N	N	20	N	N	N	50	<.05	10
I98R4960	N	N	N	N	50	N	N	N	70	.06	10
I98R5000	<5	N	N	N	50	N	N	N	200	.08	10
I98R5050	<5	N	N	N	50	20	N	N	100	.08	10
I98R5100	<5	N	N	N	50	N	N	N	150	.06	10
I98R5150	N	N	<100	N	20	N	N	N	70	<.05	10
I98R5190	<5	N	N	N	50	N	N	N	100	.05	10
I98R5220	<5	N	N	N	50	N	N	N	100	.07	10
I98R5260	<5	N	N	N	50	N	N	N	50	.05	10
I98R5290	5	N	N	N	70	N	N	N	50	.05	10
I98R5320	5	N	N	N	70	N	<10	N	200	.05	15
I98R5360	7	N	N	N	70	N	<10	N	300	.07	15
I98R5400	10	N	N	N	100	N	10	N	200	.11	15
I98R5450	10	N	N	N	70	N	<10	N	200	.09	15
I98R5500	10	N	N	N	70	N	<10	N	200	.07	15
I98R5550	7	N	N	N	70	20	<10	N	200	.06	15
I98R5580	5	N	N	N	70	50	N	N	150	.05	15
I98R5610	<5	N	N	N	50	30	N	N	70	.12	15
I98R5800	7	N	N	N	100	300	<10	N	100	.09	25
I98R5840	7	N	200	N	100	1,500	<10	N	70	.13	25
I98R5872	15	N	N	N	200	50	10	N	70	--	25
I98R5930	5	N	N	N	70	N	<10	N	100	.14	26
I98R5970	<5	N	2,000	N	50	N	N	N	70	.1	26
I98R6000	<5	N	3,000	N	30	70	N	N	50	.07	26
I98R6040	<5	N	N	N	30	500	N	N	70	.11	26
I98R6080	<5	N	N	N	50	<20	N	N	70	.34	26
I98R6100	5	N	N	N	70	N	N	N	100	.25	26
I98R6160	20	N	N	N	200	200	10	N	100	.06	26
I98R6210	15	N	N	N	200	N	10	N	100	.12	26
I98R6240	<5	N	N	N	50	N	N	N	70	--	26
I98R6280	7	N	N	N	100	N	N	N	70	.21	26
I98R6320	10	N	<100	N	150	N	N	N	70	.29	26
I98R6370	5	N	<100	N	100	100	N	N	100	1.15	26
I98R6410	10	N	N	N	150	N	10	N	500	.23	26
I98R6450	5	N	N	N	100	N	N	N	200	1.01	26
I98R6500	7	N	1,000	N	100	<20	<10	N	500	.25	26
I98R6550	10	N	N	N	100	20	<10	N	200	.19	26
I98R6580	<5	N	N	N	70	200	N	N	200	.09	26
I98R6620	<5	N	N	N	50	150	N	N	200	.09	26

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I98, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I98R7040	37 51 21	89 3 12	N	.7	.3	N	N	.07
I98R7070	37 51 21	89 3 12	N	.5	.2	N	N	.03
I98R7110	37 51 21	89 3 12	N	.1	.1	N	N	.015
I98R7130	37 51 21	89 3 12	N	.3	.1	N	N	.015
I98R7170	37 51 21	89 3 12	N	.3	.15	N	N	.02
I98R7200	37 51 21	89 3 12	2	.3	1.5	N	N	.03
I98R7230	37 51 21	89 3 12	N	.5	.2	N	N	.02
I98R7270	37 51 21	89 3 12	N	1.5	1	N	N	.15
I98R7310	37 51 21	89 3 12	N	1	.3	N	N	.05
I98R7350	37 51 21	89 3 12	.1	2	1.5	<.2	N	.2
I98R7380	37 51 21	89 3 12	.05	1.5	.7	N	N	.1
I98R7400	37 51 21	89 3 12	<.05	1.5	1	<.2	N	.15

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I98R7040	N	N	N	20	50	N	N	N	N	<10	N
I98R7070	N	N	N	N	20	N	N	N	N	10	7
I98R7110	N	N	N	N	20	N	N	N	N	<10	7
I98R7130	N	N	N	N	N	N	N	N	N	N	N
I98R7170	N	N	N	N	N	N	N	N	N	N	N
I98R7200	N	N	N	N	<20	N	N	N	N	N	<5
I98R7230	N	N	N	N	N	N	N	N	N	<10	5
I98R7270	N	N	N	30	50	N	N	N	N	50	10
I98R7310	N	N	N	10	30	N	N	N	N	<10	30
I98R7350	N	N	N	50	1,000	N	N	N	<10	30	30
I98R7380	N	N	N	15	5,000	N	N	N	N	30	15
I98R7400	N	N	N	30	500	N	N	N	N	70	20

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I98R7040	N	N	N	<10	N	N	5	N	N
I98R7070	N	N	N	N	<5	N	N	500	N
I98R7110	N	N	N	N	N	N	N	200	N
I98R7130	N	N	N	N	N	N	<5	20	N
I98R7170	N	N	N	N	N	N	<5	500	N
I98R7200	N	N	N	<10	N	N	<5	1,500	N
I98R7230	N	N	N	N	N	N	<5	1,000	N
I98R7270	5	N	N	<10	5	N	15	500	N
I98R7310	N	N	N	N	N	N	5	20	N
I98R7350	15	N	N	<10	<5	N	20	500	N
I98R7380	<5	N	N	N	<5	N	7	200	N
I98R7400	15	N	N	<10	5	N	10	1,000	N

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I98, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I98R7040	N	N	N	N	20	<20	N	N	50	<.05	43
I98R7070	N	N	N	N	<10	150	N	N	100	<.05	43
I98R7110	N	N	N	N	N	N	N	N	30	<.05	43
I98R7130	N	N	N	N	N	N	N	N	70	<.05	43
I98R7170	N	N	N	N	N	<20	N	N	200	<.05	43
I98R7200	N	N	N	N	<10	N	N	N	70	<.05	41
I98R7230	N	N	N	N	10	N	N	N	30	<.05	41
I98R7270	N	N	N	N	30	70	N	N	70	<.05	41
I98R7310	N	N	N	N	15	20	N	N	100	<.05	41
I98R7350	<5	N	>5,000	N	50	30	N	N	150	.09	41
I98R7380	N	N	>5,000	N	20	N	N	N	50	.05	41
I98R7400	<5	N	5,000	N	30	20	N	N	100	.1	41

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I99, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I99R1290	37 45 1	89 39 14	N	2	.05	N	N	.1	N	N	N	10
I99R1310	37 45 1	89 39 14	N	2	.2	N	N	.2	N	N	N	30
I99R1330	37 45 1	89 39 14	N	1.5	.15	N	N	.3	N	N	N	30
I99R1350	37 45 1	89 39 14	N	1	.3	<.2	N	.5	N	N	N	50
I99R1370	37 45 1	89 39 14	.05	3	.3	.2	N	.2	N	N	N	20
I99R1390	37 45 1	89 39 14	3	5	1	.5	N	.3	N	N	N	30
I99R1410	37 45 1	89 39 14	.07	7	2	1	N	.5	N	N	N	50
I99R1430	37 45 1	89 39 14	.1	3	1.5	1.5	N	.3	N	N	N	50
I99R1450	37 45 1	89 39 14	<.05	5	1.5	1.5	N	.5	N	N	N	50
I99R1470	37 45 1	89 39 14	N	7	1.5	1	N	.5	N	N	N	30
I99R1500	37 45 1	89 39 14	N	7	2	1.5	N	.3	N	N	N	30
I99R1520	37 45 1	89 39 14	<.05	7	1.5	1	N	.5	N	N	N	30
I99R1570	37 45 1	89 39 14	N	7	.5	.7	N	.3	N	N	N	<10
I99R1600	37 45 1	89 39 14	<.05	5	.5	.7	N	.3	N	N	N	30
I99R1740	37 45 1	89 39 14	<.05	10	1.5	1.5	N	.3	N	N	N	50
I99R1760	37 45 1	89 39 14	<.05	7	2	1.5	N	.2	N	N	N	70
I99R1780	37 45 1	89 39 14	<.05	3	1	1	N	.2	N	N	N	50
I99R1800	37 45 1	89 39 14	.15	7	2	1.5	N	.2	N	N	N	30
I99R1820	37 45 1	89 39 14	.1	3	2	1	N	.2	N	N	N	50
I99R1840	37 45 1	89 39 14	.15	5	3	1	N	.3	N	N	N	70
I99R1860	37 45 1	89 39 14	<.05	10	2	1	N	.5	N	N	N	70
I99R2020	37 45 1	89 39 14	N	3	1.5	.7	N	.2	N	N	N	30
I99R2040	37 45 1	89 39 14	N	2	1.5	.7	N	.2	N	N	N	30
I99R2070	37 45 1	89 39 14	.07	3	2	1	N	.3	N	N	N	50
I99R2180	37 45 1	89 39 14	<.05	5	1.5	1.5	N	.2	N	N	N	30
I99R2200	37 45 1	89 39 14	<.05	2	1.5	1	N	.3	N	N	N	50
I99R2230	37 45 1	89 39 14	.15	2	1.5	.7	N	.15	N	N	N	20
I99R2250	37 45 1	89 39 14	<.05	3	2	.7	N	.3	N	N	N	50
I99R2280	37 45 1	89 39 14	.05	3	1.5	1	N	.2	N	N	N	30
I99R2310	37 45 1	89 39 14	N	2	1	.7	N	.3	N	N	N	30
I99R2510	37 45 1	89 39 14	.05	3	2	1.5	N	.2	N	N	N	50
I99R2530	37 45 1	89 39 14	<.05	5	1.5	.5	N	.2	N	N	N	30
I99R2550	37 45 1	89 39 14	N	2	1	1	N	.2	N	N	N	15
I99R2570	37 45 1	89 39 14	<.05	3	2	.7	N	.3	N	N	N	50
I99R2590	37 45 1	89 39 14	<.05	2	1	1	N	.3	N	N	N	20
I99R2620	37 45 1	89 39 14	<.05	3	1	.3	N	.3	N	N	N	30
I99R2640	37 45 1	89 39 14	.07	2	1	.3	N	.2	N	N	N	30
I99R2660	37 45 1	89 39 14	.07	5	3	.7	N	.3	N	N	N	70
I99R2680	37 45 1	89 39 14	N	2	1.5	.5	N	.2	N	N	N	30
I99R2700	37 45 1	89 39 14	<.05	3	2	.5	N	.3	N	N	N	50
I99R2720	37 45 1	89 39 14	<.05	5	2	.7	N	.3	N	N	N	70
I99R2740	37 45 1	89 39 14	.07	5	2	.5	N	.5	N	N	N	100
I99R2760	37 45 1	89 39 14	.05	5	2	.5	N	.3	N	N	N	70
I99R2780	37 45 1	89 39 14	.07	3	1.5	.5	N	.2	N	N	N	50
I99R2800	37 45 1	89 39 14	.05	2	1.5	.5	N	.3	N	N	N	70
I99R2820	37 45 1	89 39 14	.05	3	1.5	.5	N	.5	N	N	N	70
I99R2840	37 45 1	89 39 14	.07	3	2	.3	N	.3	N	N	N	50
I99R2860	37 45 1	89 39 14	.15	5	2	.5	N	.5	N	N	N	100
I99R2880	37 45 1	89 39 14	.07	5	3	.7	N	.3	N	N	N	70
I99R2900	37 45 1	89 39 14	<.05	2	1.5	.3	N	.2	N	N	N	50
I99R2920	37 45 1	89 39 14	.05	2	1.5	.3	N	.3	N	N	N	50
I99R2940	37 45 1	89 39 14	.3	3	3	.7	N	.5	N	N	N	100
I99R2960	37 45 1	89 39 14	2	2	2	.5	N	.3	N	N	N	70
I99R2980	37 45 1	89 39 14	.15	2	1.5	.3	N	.3	N	N	N	70
I99R3000	37 45 1	89 39 14	.2	2	1	.2	N	.3	N	N	N	100
I99R3020	37 45 1	89 39 14	.2	3	1.5	.3	N	.3	N	N	N	70
I99R3040	37 45 1	89 39 14	.7	2	2	.5	N	.3	N	N	N	70
I99R3060	37 45 1	89 39 14	2	3	2	.3	N	.3	N	N	N	70
I99R3080	37 45 1	89 39 14	2	1.5	1	<.2	N	.2	N	N	N	50
I99R3100	37 45 1	89 39 14	.1	5	2	1	N	.5	N	N	N	30

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I99, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I99R1290	150	N	N	N	N	N	7	N	N	N	<10	N	N
I99R1310	70	N	N	N	N	10	15	<5	N	N	200	N	N
I99R1330	100	N	N	N	N	15	5	5	N	N	30	N	N
I99R1350	100	N	N	N	N	30	10	7	N	<50	15	N	N
I99R1370	300	N	N	N	<10	20	10	10	N	N	150	N	N
I99R1390	200	<1	N	N	10	70	50	30	N	N	150	N	N
I99R1410	150	<1	N	N	10	50	50	70	N	N	70	5	N
I99R1430	70	<1	N	N	15	50	30	50	N	N	50	<5	N
I99R1450	500	<1	N	N	10	70	30	50	N	N	50	5	N
I99R1470	150	<1	N	N	10	70	15	50	N	N	20	N	N
I99R1500	200	<1	N	N	10	100	20	70	N	N	30	N	N
I99R1520	100	<1	N	N	50	70	30	50	N	N	30	<5	N
I99R1570	50	N	N	N	10	70	15	10	N	N	15	N	N
I99R1600	300	N	N	N	<10	30	20	20	N	N	70	N	N
I99R1740	200	1	N	N	20	100	30	100	N	<50	30	N	N
I99R1760	200	1	N	N	10	100	15	150	N	<50	15	N	N
I99R1780	150	<1	N	N	<10	70	20	70	N	N	15	7	N
I99R1800	100	<1	N	N	10	70	20	70	N	N	15	<5	N
I99R1820	70	1	N	N	<10	50	20	70	N	N	15	N	N
I99R1840	150	1.5	N	N	10	100	20	100	N	N	150	<5	N
I99R1860	1,000	1.5	N	N	10	100	50	70	N	N	15	N	N
I99R2020	300	<1	N	N	10	70	15	50	N	N	15	N	N
I99R2040	200	<1	N	N	<10	70	7	50	N	N	15	N	N
I99R2070	100	<1	N	N	10	70	10	50	N	N	30	N	N
I99R2180	70	<1	N	N	<10	100	10	70	N	N	15	N	N
I99R2200	50	<1	N	N	<10	70	100	70	N	N	20	N	N
I99R2230	100	<1	N	N	50	30	15	30	N	N	50	N	N
I99R2250	50	<1	N	N	<10	100	5	100	N	N	15	N	N
I99R2280	100	N	N	N	<10	50	20	70	N	N	15	N	N
I99R2310	200	N	N	N	<10	50	15	50	N	N	15	N	N
I99R2510	100	1	N	N	<10	100	5	100	N	<50	50	N	N
I99R2530	70	<1	N	N	<10	70	20	50	N	N	15	N	N
I99R2550	50	<1	N	N	N	50	30	20	N	N	10	N	N
I99R2570	70	1	N	N	10	100	15	70	N	N	20	N	N
I99R2590	70	<1	N	N	<10	100	7	30	N	N	15	N	N
I99R2620	100	<1	N	N	<10	70	5	30	N	N	20	N	N
I99R2640	70	<1	N	N	<10	50	10	20	N	N	20	N	N
I99R2660	100	2	N	N	10	150	10	100	N	<50	100	N	N
I99R2680	70	<1	N	N	<10	100	<5	70	N	N	20	N	N
I99R2700	70	1	N	N	10	100	7	70	N	N	15	N	N
I99R2720	100	1	N	N	10	150	20	50	N	<50	15	N	N
I99R2740	100	1.5	N	N	10	100	20	30	N	<50	30	N	<20
I99R2760	70	1.5	N	N	10	100	10	50	N	<50	20	N	N
I99R2780	50	<1	N	N	<10	100	15	50	N	N	10	N	N
I99R2800	50	1.5	N	N	10	100	5	30	N	N	30	N	N
I99R2820	70	1	N	N	10	100	30	50	N	<50	20	N	N
I99R2840	50	<1	N	N	<10	70	7	30	N	N	15	N	N
I99R2860	150	1.5	N	N	10	100	30	50	N	<50	70	<5	<20
I99R2880	100	1.5	N	N	10	150	15	70	N	<50	30	N	N
I99R2900	50	<1	N	N	<10	70	15	30	N	N	15	N	N
I99R2920	70	<1	N	N	10	70	15	30	N	N	20	N	N
I99R2940	150	1.5	N	N	10	70	15	50	N	<50	50	N	<20
I99R2960	700	<1	N	N	<10	50	50	20	N	N	20	N	N
I99R2980	70	1	N	N	<10	50	10	30	N	N	15	N	N
I99R3000	100	<1	N	N	<10	70	30	15	N	N	20	N	N
I99R3020	70	1.5	N	N	10	100	15	50	N	<50	50	N	N
I99R3040	500	<1	N	N	<10	100	15	30	N	<50	20	N	N
I99R3060	150	1	N	N	10	70	15	30	N	<50	30	5	N
I99R3080	50	<1	N	N	<10	30	20	15	N	N	10	N	N
I99R3100	100	1	N	N	10	150	70	30	N	<50	70	N	<20

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 199, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I99R1290	5	N	N	N	N	N	N	10	30	N	N	70	<.05	3
I99R1310	7	N	N	N	N	N	N	30	N	N	N	200	<.05	3
I99R1330	7	N	N	N	N	N	N	30	N	N	N	200	<.05	3
I99R1350	7	N	N	<5	N	N	N	50	N	10	N	300	<.05	3
I99R1370	15	N	N	N	N	N	N	30	20	N	N	100	<.05	3
I99R1390	100	15	N	<5	N	N	N	50	N	N	<200	30	.08	3
I99R1410	20	50	N	<5	N	N	N	50	N	N	N	50	.1	3
I99R1430	15	20	N	<5	N	N	N	50	N	N	<200	30	.09	3
I99R1450	15	20	N	5	N	N	N	70	<20	N	<200	50	.09	3
I99R1470	20	10	N	5	N	N	N	70	N	<10	N	70	.06	3
I99R1500	50	15	N	7	N	N	N	100	30	<10	N	50	<.05	3
I99R1520	30	<10	N	7	N	N	N	70	N	<10	<200	70	<.05	3
I99R1570	30	10	N	<5	N	N	N	30	<20	N	N	200	<.05	3
I99R1600	15	15	N	<5	N	N	N	50	N	N	N	150	<.05	3
I99R1740	50	15	N	7	N	N	N	70	<20	10	<200	70	<.05	3
I99R1760	20	<10	N	7	N	N	N	100	N	<10	N	30	.06	3
I99R1780	20	10	N	5	N	N	N	100	20	N	N	50	<.05	3
I99R1800	20	10	N	5	N	N	N	70	N	N	N	30	.09	3
I99R1820	15	10	N	5	N	N	N	70	N	N	N	30	.08	3
I99R1840	20	10	N	7	N	N	N	100	N	<10	N	50	.1	3
I99R1860	30	<10	N	7	N	N	N	150	N	10	N	100	.07	3
I99R2020	20	10	N	5	N	N	N	70	N	N	N	30	.07	4
I99R2040	15	15	N	5	N	N	N	70	N	N	N	30	.05	4
I99R2070	20	15	N	7	N	N	N	100	N	<10	N	50	<.05	4
I99R2180	20	<10	N	7	N	N	N	100	N	<10	N	50	<.05	4
I99R2200	15	<10	N	5	N	N	N	100	N	<10	N	30	.06	4
I99R2230	15	<10	N	<5	N	N	N	50	N	N	N	20	.06	4
I99R2250	20	<10	N	7	N	N	N	100	N	N	N	50	.05	4
I99R2280	15	<10	N	<5	N	N	N	70	N	N	<200	30	<.05	4
I99R2310	15	N	N	<5	N	N	N	70	N	N	N	200	<.05	4
I99R2510	20	<10	N	7	N	N	N	150	N	<10	N	30	.05	6
I99R2530	20	<10	N	5	N	N	N	100	N	N	N	30	<.05	6
I99R2550	15	N	N	<5	N	N	N	50	N	N	N	50	<.05	6
I99R2570	20	<10	N	7	N	N	N	70	N	<10	N	50	.06	6
I99R2590	20	N	N	5	N	N	N	70	N	<10	N	70	<.05	6
I99R2620	20	N	N	7	N	N	N	100	N	N	N	70	<.05	6
I99R2640	15	N	N	5	N	N	N	70	N	N	N	100	<.05	6
I99R2660	50	<10	N	10	N	N	N	150	N	<10	N	50	.05	6
I99R2680	15	<10	N	5	N	N	N	70	N	N	N	50	.08	6
I99R2700	20	N	N	7	N	N	N	70	N	<10	N	50	.08	6
I99R2720	30	<10	N	10	N	N	N	70	N	10	N	30	.05	6
I99R2740	30	<10	N	10	N	N	N	100	N	<10	N	70	.07	6
I99R2760	30	N	N	10	N	N	N	100	N	<10	N	50	.05	6
I99R2780	30	N	N	5	N	N	N	70	N	N	N	30	.07	6
I99R2800	30	<10	N	7	N	N	N	100	N	<10	N	50	.07	6
I99R2820	50	<10	N	10	N	N	N	100	N	<10	N	70	.08	6
I99R2840	30	N	N	7	N	N	N	100	N	N	N	50	.19	6
I99R2860	50	10	N	15	N	N	N	100	N	10	N	100	.12	6
I99R2880	50	<10	N	7	N	N	N	100	N	<10	N	70	.08	6
I99R2900	20	<10	N	5	N	N	N	70	N	N	N	50	.06	6
I99R2920	20	<10	N	7	N	N	N	70	N	<10	N	70	.09	6
I99R2940	30	10	N	10	N	100	N	100	N	<10	N	150	.18	6
I99R2960	20	N	N	5	N	>5,000	N	70	N	<10	N	100	.15	6
I99R2980	30	15	N	7	N	<100	N	70	N	N	N	50	.06	6
I99R3000	50	10	N	5	N	<100	N	70	N	N	N	70	.07	6
I99R3020	50	10	N	10	N	N	N	100	N	<10	N	70	.08	6
I99R3040	30	<10	N	7	N	1,500	N	100	N	<10	N	50	.09	6
I99R3060	30	<10	N	10	N	150	N	70	N	<10	N	50	.16	6
I99R3080	15	N	N	5	N	<100	N	50	<20	N	N	30	.09	6
I99R3100	30	<10	N	7	N	100	N	70	N	10	N	100	.06	6

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 199, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I99R3120	37 45 1	89 39 14	2	10	3	.5	N	.15	N	N	N	20
I99R3140	37 45 1	89 39 14	.5	5	1.5	.7	N	.5	N	N	N	100
I99R3160	37 45 1	89 39 14	.2	5	2	.5	N	.5	N	N	N	100
I99R3180	37 45 1	89 39 14	.7	3	1.5	.5	N	.3	N	N	N	30
I99R3200	37 45 1	89 39 14	.5	2	.7	.7	N	.3	N	N	N	30
I99R3220	37 45 1	89 39 14	.3	3	1	1	N	.3	N	N	N	50
I99R3240	37 45 1	89 39 14	3	3	1.5	.7	N	.5	N	N	N	70
I99R3260	37 45 1	89 39 14	.15	5	1.5	1	N	.5	N	N	N	70
I99R3280	37 45 1	89 39 14	.7	3	2	.7	N	.3	N	N	N	50
I99R3300	37 45 1	89 39 14	5	2	2	.5	N	.3	N	N	N	50
I99R3320	37 45 1	89 39 14	.05	20	.7	<.2	N	.2	N	N	N	15
I99R3340	37 45 1	89 39 14	.2	5	1	.3	N	.3	N	N	N	50
I99R3360	37 45 1	89 39 14	.3	3	1.5	.5	N	.5	N	N	N	70
I99R3380	37 45 1	89 39 14	.5	5	2	.5	N	.3	N	N	N	70
I99R3400	37 45 1	89 39 14	.15	5	1.5	.7	N	.5	N	N	N	100
I99R3420	37 45 1	89 39 14	.1	3	1	.7	N	.3	N	N	N	70
I99R3440	37 45 1	89 39 14	.2	7	1.5	.3	N	.3	N	N	N	100
I99R3460	37 45 1	89 39 14	.1	5	1.5	.5	N	.3	N	N	N	100
I99R3480	37 45 1	89 39 14	.1	5	1.5	.5	N	.3	N	N	N	100
I99R3500	37 45 1	89 39 14	.07	2	1	.3	N	.2	N	N	N	50
I99R3520	37 45 1	89 39 14	5	5	3	1	N	.5	N	N	N	150
I99R3540	37 45 1	89 39 14	.3	3	1	.3	N	.5	N	N	N	100
I99R3560	37 45 1	89 39 14	.15	5	1.5	.5	N	.5	N	N	N	150
I99R3580	37 45 1	89 39 14	.07	3	1	.3	N	.3	N	N	N	100
I99R3600	37 45 1	89 39 14	.2	3	.7	.5	N	.7	N	N	N	150
I99R3620	37 45 1	89 39 14	.1	5	1.5	.5	N	.7	N	N	N	150
I99R3640	37 45 1	89 39 14	.2	5	2	1	N	.7	N	N	N	150
I99R3660	37 45 1	89 39 14	.2	5	1.5	1	N	1	N	N	N	150
I99R3680	37 45 1	89 39 14	.15	3	1	.7	N	.5	N	N	N	100
I99R3700	37 45 1	89 39 14	.07	5	.7	.7	N	.5	N	N	N	100
I99R3730	37 45 1	89 39 14	.1	3	1	.5	N	.5	N	N	N	100
I99R3760	37 45 1	89 39 14	.3	5	1	.5	N	.5	<.5	N	N	150
I99R3780	37 45 1	89 39 14	.1	3	.7	.3	N	.5	N	N	N	100
I99R3810	37 45 1	89 39 14	.15	3	.7	.5	N	.5	N	N	N	100
I99R3830	37 45 1	89 39 14	.15	2	.7	.5	N	.3	N	N	N	70
I99R3850	37 45 1	89 39 14	2	1.5	.5	<.2	N	.2	N	N	N	50
I99R3870	37 45 1	89 39 14	.7	3	.7	.2	N	.5	N	N	N	70
I99R3890	37 45 1	89 39 14	.5	3	1	.3	N	.5	N	N	N	100
I99R3910	37 45 1	89 39 14	.1	20	.7	.3	N	.3	N	N	N	70
I99R3930	37 45 1	89 39 14	.7	5	2	.5	N	.5	N	N	N	100
I99R3950	37 45 1	89 39 14	.2	5	2	.5	N	.5	N	N	N	150
I99R3970	37 45 1	89 39 14	.5	1.5	.5	<.2	N	.3	N	N	N	70
I99R3990	37 45 1	89 39 14	.3	2	.3	<.2	N	.5	N	N	N	70
I99R4010	37 45 1	89 39 14	.7	2	.5	<.2	N	.3	N	N	N	70
I99R4030	37 45 1	89 39 14	2	1	.3	<.2	N	.2	N	N	N	70
I99R4050	37 45 1	89 39 14	.2	1.5	.5	.3	N	.5	N	N	N	70
I99R4070	37 45 1	89 39 14	.15	2	.5	.2	N	.7	N	N	N	150
I99R4090	37 45 1	89 39 14	.7	1.5	.3	<.2	N	.3	N	N	N	100
I99R4110	37 45 1	89 39 14	.5	1	.3	<.2	N	.3	N	N	N	70
I99R4130	37 45 1	89 39 14	.5	1.5	.7	.2	N	.5	N	N	N	70
I99R4150	37 45 1	89 39 14	3	1	.2	<.2	N	.1	<.5	N	N	30
I99R4170	37 45 1	89 39 14	1	1.5	.7	.3	N	.2	<.5	N	N	50
I99R4190	37 45 1	89 39 14	.1	2	.2	.5	N	.3	.7	N	N	50
I99R4210	37 45 1	89 39 14	.7	1.5	.5	.3	N	.2	.5	N	N	50
I99R4230	37 45 1	89 39 14	1	2	.5	.3	N	.3	N	N	N	50
I99R4250	37 45 1	89 39 14	.1	1.5	.2	.5	N	.2	N	N	N	50
I99R4270	37 45 1	89 39 14	.7	2	.5	.7	N	.2	<.5	N	N	50
I99R4290	37 45 1	89 39 14	.15	2	.2	1	N	.5	<.5	N	N	100
I99R4310	37 45 1	89 39 14	.3	2	.3	.7	N	.3	<.5	N	N	70
I99R4330	37 45 1	89 39 14	.2	2	.7	.5	N	.5	N	N	N	100

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 199, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I99R3120	70	N	N	N	N	70	1,000	30	N	N	700	7	N
I99R3140	100	1	N	N	<10	100	50	50	N	<50	70	N	N
I99R3160	100	1.5	N	N	10	100	30	70	N	<50	50	5	N
I99R3180	70	<1	N	N	<10	70	10	30	N	N	20	<5	N
I99R3200	50	N	N	N	<10	20	15	5	N	N	10	5	N
I99R3220	70	N	N	N	<10	50	10	30	N	N	15	N	N
I99R3240	150	1	N	N	<10	70	10	20	N	N	30	N	N
I99R3260	150	N	N	N	15	70	500	30	N	N	50	5	N
I99R3280	100	<1	N	N	10	100	15	50	N	<50	15	N	N
I99R3300	150	<1	N	N	<10	70	30	15	N	N	20	N	N
I99R3320	70	N	N	N	<10	30	30	20	N	N	10	7	N
I99R3340	70	N	N	N	<10	50	50	20	N	N	30	N	N
I99R3360	100	<1	N	N	10	70	20	30	N	N	20	<5	N
I99R3380	100	1	N	N	10	70	20	50	N	N	30	<5	N
I99R3400	150	1	N	N	10	100	20	30	N	<50	30	5	N
I99R3420	70	1.5	N	N	<10	100	30	30	N	N	10	<5	N
I99R3440	150	1	N	N	<10	70	20	20	N	N	30	<5	N
I99R3460	100	1	N	N	10	70	15	30	N	N	30	5	N
I99R3480	150	<1	N	N	10	70	15	30	N	N	30	<5	N
I99R3500	300	N	N	N	N	50	15	15	N	N	15	<5	N
I99R3520	200	1.5	N	N	10	100	30	70	N	50	50	<5	N
I99R3540	150	1.5	N	N	<10	70	20	30	N	<50	20	N	N
I99R3560	200	2	N	N	10	100	50	50	N	50	50	N	N
I99R3580	150	1.5	N	N	10	70	15	30	N	N	30	N	N
I99R3600	200	2	N	N	<10	70	30	30	N	<50	30	N	<20
I99R3620	200	2	N	N	20	100	20	50	N	<50	30	N	<20
I99R3640	200	1.5	N	N	10	150	30	70	N	<50	30	N	N
I99R3660	200	1.5	N	N	10	150	30	50	N	<50	50	N	<20
I99R3680	150	1	N	N	<10	70	30	30	N	N	20	N	N
I99R3700	150	1.5	N	N	10	70	20	50	N	<50	20	N	N
I99R3730	150	1.5	N	N	<10	70	20	50	N	<50	30	N	N
I99R3760	150	2	N	N	<10	50	15	30	N	<50	50	N	<20
I99R3780	100	1	N	N	<10	70	20	30	N	N	20	N	N
I99R3810	150	1.5	N	N	10	70	15	30	N	N	30	N	<20
I99R3830	100	<1	N	N	<10	30	20	20	N	N	30	N	N
I99R3850	100	N	N	N	N	20	10	15	N	N	20	N	N
I99R3870	150	<1	N	N	<10	50	15	15	N	N	100	N	N
I99R3890	150	1.5	N	N	<10	70	20	30	N	<50	20	N	N
I99R3910	150	<1	N	N	20	50	100	50	N	N	30	15	N
I99R3930	300	1.5	N	N	<10	100	30	50	N	<50	20	N	N
I99R3950	200	1.5	N	N	<10	200	20	70	N	50	30	N	<20
I99R3970	150	N	N	N	N	20	15	20	N	N	15	N	N
I99R3990	150	<1	N	N	N	15	10	5	N	N	70	N	N
I99R4010	1,000	<1	N	N	N	20	20	15	N	N	15	N	N
I99R4030	150	N	N	N	N	<10	7	7	N	N	10	N	N
I99R4050	100	<1	N	N	N	20	15	20	N	N	30	N	N
I99R4070	100	2	N	N	<10	50	15	30	N	N	20	N	N
I99R4090	70	<1	N	N	N	10	10	15	N	N	20	N	N
I99R4110	70	<1	N	N	N	10	50	10	N	N	15	N	N
I99R4130	150	1	N	N	N	20	30	15	N	N	20	N	N
I99R4150	70	N	N	N	N	<10	10	N	N	N	<10	N	N
I99R4170	150	N	N	N	N	10	20	5	N	N	15	N	N
I99R4190	100	N	N	N	N	20	15	10	N	N	20	N	N
I99R4210	100	N	N	N	N	10	15	10	N	N	15	N	N
I99R4230	70	N	N	N	N	15	10	7	N	N	20	N	N
I99R4250	100	N	N	N	N	<10	50	<5	N	N	20	N	N
I99R4270	200	N	N	N	N	15	30	15	N	N	20	N	N
I99R4290	300	<1	N	N	N	15	20	10	N	N	30	N	N
I99R4310	300	<1	N	N	N	15	70	10	N	N	30	N	N
I99R4330	200	2	N	N	10	70	7	30	N	<50	30	N	N

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 199, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I99R3120	20	N	N	<5	N	300	N	50	N	10	N	30	.15	6
I99R3140	50	<10	N	7	N	<100	N	70	N	<10	N	150	.12	6
I99R3160	70	10	N	10	N	N	N	100	N	<10	<200	50	.1	6
I99R3180	20	N	N	<5	N	N	N	70	N	N	N	50	.8	6
I99R3200	15	N	N	<5	N	N	N	50	N	N	N	150	.27	6
I99R3220	20	N	N	5	N	100	N	70	N	N	N	150	.19	6
I99R3240	30	N	N	5	N	700	N	100	N	N	N	70	.14	6
I99R3260	50	15	N	5	N	N	N	100	N	N	N	50	.23	6
I99R3280	30	<10	N	7	N	N	N	70	N	N	N	50	.15	7
I99R3300	20	N	N	5	N	N	N	70	N	N	N	30	.21	7
I99R3320	150	100	N	<5	N	N	N	50	N	N	<200	20	.08	7
I99R3340	20	N	N	<5	N	N	N	70	N	N	N	30	.16	7
I99R3360	30	<10	N	5	N	<100	N	70	N	<10	N	70	.18	7
I99R3380	50	<10	N	7	N	N	N	70	N	<10	N	50	.16	7
I99R3400	50	10	N	7	N	N	N	100	N	N	N	70	.11	7
I99R3420	30	<10	N	5	N	N	N	100	N	N	N	70	.11	7
I99R3440	50	<10	N	7	N	300	N	70	N	<10	N	70	.1	7
I99R3460	20	<10	N	7	N	N	N	100	N	N	N	70	.13	7
I99R3480	20	<10	N	5	N	N	N	100	N	N	N	70	.18	7
I99R3500	15	N	N	5	N	5,000	N	70	N	N	N	30	.1	7
I99R3520	70	15	N	10	N	<100	N	150	N	<10	N	70	.16	7
I99R3540	30	<10	N	7	N	N	N	100	N	N	N	70	.1	7
I99R3560	50	10	N	10	N	N	N	150	N	10	N	100	.1	7
I99R3580	50	N	N	7	N	N	N	100	N	N	N	70	.1	7
I99R3600	50	<10	N	10	N	<100	N	150	N	<10	N	150	.11	7
I99R3620	70	<10	N	15	N	N	N	150	N	10	N	100	.09	7
I99R3640	70	10	N	10	N	N	N	150	N	10	N	100	.11	7
I99R3660	70	<10	N	10	N	N	N	100	N	10	N	200	.09	7
I99R3680	50	10	N	5	N	N	N	70	N	N	N	100	.16	7
I99R3700	50	15	N	10	N	N	N	100	N	<10	N	70	.09	7
I99R3730	50	<10	N	7	N	N	N	100	N	<10	N	100	.08	7
I99R3760	50	<10	N	7	N	N	N	100	N	<10	N	100	.08	7
I99R3780	30	N	N	5	N	N	N	70	N	N	N	50	.12	7
I99R3810	50	N	N	7	N	N	N	100	N	<10	N	70	.13	7
I99R3830	20	N	N	5	N	N	N	100	N	N	N	70	.07	7
I99R3850	15	N	N	<5	N	N	N	50	N	N	N	50	.1	7
I99R3870	20	<10	N	5	N	<100	N	70	N	<10	N	70	.15	7
I99R3890	20	N	N	7	N	N	N	100	N	<10	<200	70	.37	7
I99R3910	100	20	N	10	N	<100	N	70	N	<10	N	50	.1	7
I99R3930	20	50	N	10	N	>5,000	N	100	N	<10	N	50	.39	7
I99R3950	50	<10	N	10	N	3,000	N	200	N	10	N	70	.11	7
I99R3970	15	N	N	<5	N	>5,000	N	50	N	N	N	30	.09	7
I99R3990	15	N	N	<5	N	5,000	N	70	N	N	N	50	.11	7
I99R4010	15	N	N	<5	N	>5,000	N	50	N	N	N	30	.13	7
I99R4030	10	N	N	N	N	>5,000	N	30	N	N	N	30	<.05	7
I99R4050	15	N	N	<5	N	5,000	N	50	N	N	N	70	.06	7
I99R4070	30	N	N	5	N	<100	N	100	N	<10	N	200	<.05	7
I99R4090	10	N	N	<5	N	<100	N	50	N	N	N	50	.07	7
I99R4110	10	N	N	<5	N	100	N	50	N	N	N	30	.05	7
I99R4130	20	N	N	<5	N	5,000	N	70	N	N	N	70	.11	7
I99R4150	10	N	N	N	N	>5,000	N	20	N	N	<200	30	.67	7
I99R4170	15	N	N	<5	N	3,000	N	50	N	N	N	70	.13	7
I99R4190	50	N	N	N	N	N	N	50	N	N	N	100	.06	8
I99R4210	15	N	N	N	N	<100	N	30	N	N	N	50	.07	8
I99R4230	15	N	N	<5	N	N	N	50	N	N	N	70	.05	8
I99R4250	10	N	N	N	N	200	N	30	N	N	N	100	.06	8
I99R4270	15	N	N	N	N	<100	N	50	N	N	N	70	.07	8
I99R4290	20	N	N	<5	N	<100	N	70	N	N	N	200	.06	8
I99R4310	20	N	N	N	N	N	N	70	N	N	N	150	.06	8
I99R4330	30	N	N	10	N	<100	N	100	N	<10	N	150	.06	8

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I99, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I99R4350	37 45 1	89 39 14	.2	2	.5	.7	N	.3	N	N	N	100
I99R4370	37 45 1	89 39 14	.15	2	.7	.7	N	.5	1	N	N	100
I99R4640	37 45 1	89 39 14	2	3	3	.7	N	.5	N	N	N	100
I99R4660	37 45 1	89 39 14	10	5	5	.7	N	.3	N	N	N	70
I99R4680	37 45 1	89 39 14	.3	2	.5	.5	N	.3	N	N	N	50
I99R4700	37 45 1	89 39 14	.15	3	.7	.5	N	.7	N	N	N	70
I99R4720	37 45 1	89 39 14	.15	5	.7	.3	N	.5	N	N	N	50
I99R4740	37 45 1	89 39 14	.2	3	.5	.2	N	.5	N	N	N	70
I99R4760	37 45 1	89 39 14	.3	1	.2	N	N	.15	N	N	N	30
I99R4780	37 45 1	89 39 14	.3	2	.5	.2	N	.5	N	N	N	70
I99R4800	37 45 1	89 39 14	.5	1.5	.5	<.2	N	.2	N	N	N	70
I99R4820	37 45 1	89 39 14	.5	2	.3	N	N	.2	N	N	N	50
I99R4840	37 45 1	89 39 14	.2	5	1.5	.5	N	.7	N	N	N	150
I99R4860	37 45 1	89 39 14	.05	1	.2	N	N	.2	N	N	N	20
I99R4880	37 45 1	89 39 14	.2	2	.3	.3	N	.15	N	N	N	30
I99R4900	37 45 1	89 39 14	.15	.7	.15	.2	N	.15	N	N	N	30
I99R4920	37 45 1	89 39 14	<.05	1	.1	<.2	N	.15	N	N	N	20
I99R4930	37 45 1	89 39 14	.05	.7	.15	N	N	.15	N	N	N	30

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I99R4350	200	1	N	N	N	20	20	15	N	N	20	N	N
I99R4370	1,000	1.5	N	N	10	70	700	20	N	<50	50	30	N
I99R4640	300	2	N	N	10	50	150	30	N	50	200	5	N
I99R4660	200	1	N	N	10	50	70	30	N	<50	500	N	N
I99R4680	150	<1	N	N	10	20	50	15	N	N	30	N	N
I99R4700	150	1.5	N	N	<10	50	30	20	N	50	30	N	<20
I99R4720	200	1.5	N	N	15	50	1,000	30	N	<50	30	N	N
I99R4740	100	1	N	N	<10	30	50	20	N	N	20	N	N
I99R4760	70	N	N	N	N	<10	20	<5	N	N	<10	N	N
I99R4780	70	<1	N	N	<10	30	30	15	N	N	15	N	N
I99R4800	70	<1	N	N	N	10	30	5	N	N	20	N	N
I99R4820	50	N	N	N	N	<10	15	<5	N	N	15	N	N
I99R4840	150	2	N	N	10	150	70	50	N	50	70	N	<20
I99R4860	50	N	N	N	N	N	5	<5	N	N	N	N	N
I99R4880	30	N	N	N	N	<10	10	5	N	N	10	N	N
I99R4900	30	N	N	N	N	N	7	<5	N	N	N	N	N
I99R4920	70	N	N	N	N	N	10	<5	N	N	<10	N	N
I99R4930	50	N	N	N	N	N	5	<5	N	N	<10	N	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I99R4350	15	N	N	<5	N	N	N	70	N	N	N	70	.05	8
I99R4370	150	30	N	5	N	2,000	N	700	N	N	700	70	.05	8
I99R4640	50	10	N	7	N	N	N	200	N	10	N	100	.09	8
I99R4660	20	15	N	7	N	N	N	150	N	<10	N	70	.06	10
I99R4680	20	<10	N	<5	N	N	N	70	N	N	N	70	.05	10
I99R4700	30	N	N	7	N	N	N	100	N	10	N	150	.05	10
I99R4720	200	15	N	7	N	N	N	100	N	<10	1,500	50	.09	10
I99R4740	50	N	N	7	N	N	N	50	N	N	N	200	<.05	10
I99R4760	5	N	N	N	N	N	N	20	N	N	N	30	<.05	10
I99R4780	15	N	N	<5	N	N	N	50	N	N	N	100	<.05	10
I99R4800	10	15	N	N	N	N	N	50	N	N	N	70	<.05	10
I99R4820	15	N	N	N	N	N	N	30	N	N	3,000	30	<.05	10
I99R4840	70	<10	N	10	N	N	N	100	N	<10	N	150	.06	10
I99R4860	<5	N	N	N	N	N	N	20	N	N	N	70	<.05	10
I99R4880	10	N	N	N	N	N	N	30	N	N	N	100	<.05	10
I99R4900	<5	N	N	N	N	N	N	20	N	N	N	70	<.05	10
I99R4920	<5	N	N	N	N	700	N	15	N	N	N	50	<.05	10
I99R4930	5	N	N	N	N	N	N	15	N	N	N	70	<.05	10

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1001780	37 51 15	88 35 14	<.05	1	.5	.2	N	.2	N	N	N	30
I1001880	37 51 15	88 35 14	.05	1.5	.7	.5	N	.2	N	N	N	30
I1001920	37 51 15	88 35 14	<.05	2	1	.7	N	.3	N	N	N	50
I1001960	37 51 15	88 35 14	N	2	1	.7	N	.3	N	N	N	30
I1002000	37 51 15	88 35 14	N	2	1	1	N	.2	N	N	N	30
I1002040	37 51 15	88 35 14	N	1.5	.7	.5	N	.2	N	N	N	30
I1002100	37 51 15	88 35 14	<.05	2	1.5	.7	N	.5	N	N	N	70
I1002160	37 51 15	88 35 14	<.05	1.5	1	1.5	N	.3	N	N	N	50
I1002200	37 51 15	88 35 14	.05	2	1	1	N	.2	N	N	N	50
I1002240	37 51 15	88 35 14	.07	5	1.5	.7	N	.3	N	N	N	30
I1002280	37 51 15	88 35 14	N	2	1	.7	N	.3	N	N	N	50
I1002330	37 51 15	88 35 14	N	1.5	.7	.3	N	.15	N	N	N	30
I1002460	37 51 15	88 35 14	<.05	2	1	.7	N	.2	N	N	N	50
I1002600	37 51 15	88 35 14	N	.5	.1	N	N	.03	N	N	N	N
I1002650	37 51 15	88 35 14	<.05	2	1	.7	N	.2	N	N	N	20
I1002700	37 51 15	88 35 14	N	2	1	.5	N	.2	N	N	N	50
I1002950	37 51 15	88 35 14	N	1.5	.7	.5	N	.2	N	N	N	30
I1002990	37 51 15	88 35 14	N	1.5	.7	.5	N	.15	N	N	N	20
I1003025	37 51 15	88 35 14	.05	2	1	.5	N	.2	N	N	N	50
I1003095	37 51 15	88 35 14	.05	2	1.5	.5	N	.2	N	N	N	30
I1003115	37 51 15	88 35 14	<.05	2	1	.5	N	.15	N	N	N	50
I1003140	37 51 15	88 35 14	.05	5	2	.7	N	.3	N	N	N	70
I1003160	37 51 15	88 35 14	N	3	1	.7	N	.2	N	N	N	30
I1003180	37 51 15	88 35 14	10	2	5	.3	N	.15	N	N	N	20
I1003205	37 51 15	88 35 14	<.05	2	1	1	N	.2	N	N	N	30
I1003225	37 51 15	88 35 14	.05	2	.7	.3	N	.15	N	N	N	30
I1003240	37 51 15	88 35 14	20	1	7	.2	N	.05	N	N	N	10
I1003470	37 51 15	88 35 14	7	5	1	1.5	N	.1	N	N	N	15
I1003490	37 51 15	88 35 14	10	1	.1	<.2	N	.03	N	N	N	10
I1003510	37 51 15	88 35 14	.15	.15	.02	N	N	.015	N	N	N	20
I1003540	37 51 15	88 35 14	.1	.15	<.02	N	N	.005	N	N	N	15
I1003570	37 51 15	88 35 14	.7	1	.03	N	N	.03	N	N	N	15
I1003610	37 51 15	88 35 14	.15	.3	.05	N	N	.03	N	N	N	20
I1003640	37 51 15	88 35 14	1	.2	.03	N	N	.015	N	N	N	15
I1003660	37 51 15	88 35 14	<.05	.7	.05	N	N	.02	N	N	N	10
I1003690	37 51 15	88 35 14	.2	2	.3	.3	N	.15	<.5	N	N	20
I1003710	37 51 15	88 35 14	2	.7	.15	<.2	N	.1	N	N	N	30
I1003740	37 51 15	88 35 14	.05	1.5	.3	.5	N	.15	N	N	N	15
I1003770	37 51 15	88 35 14	.2	1.5	.2	.2	N	.1	N	N	N	15
I1003800	37 51 15	88 35 14	.3	5	1	1	N	.2	N	N	N	50
I1003830	37 51 15	88 35 14	.5	2	.7	.7	N	.3	<.5	N	N	50
I1003860	37 51 15	88 35 14	.7	1.5	.5	<.2	N	.1	N	N	N	50
I1003890	37 51 15	88 35 14	.05	2	.7	.3	N	.1	N	N	N	30
I1003920	37 51 15	88 35 14	.15	1.5	.7	.3	N	.2	N	N	N	30
I1003950	37 51 15	88 35 14	.07	3	.5	.5	N	.15	N	N	N	30
I1003980	37 51 15	88 35 14	.3	3	.5	.5	N	.15	N	N	N	30
I1004010	37 51 15	88 35 14	.1	5	1	1.5	N	.2	<.5	N	N	50
I1004030	37 51 15	88 35 14	.3	1.5	.1	N	N	.02	N	N	N	20
I1004050	37 51 15	88 35 14	2	2	.3	.3	N	.1	N	N	N	20
I1004070	37 51 15	88 35 14	.15	3	.5	.5	N	.2	N	N	N	50
I1004095	37 51 15	88 35 14	.7	1	.15	N	N	.07	N	N	N	<10
I1004120	37 51 15	88 35 14	.1	5	.1	N	N	.1	N	N	N	30
I1004140	37 51 15	88 35 14	.3	.5	.02	N	N	.02	N	N	N	10
I1004170	37 51 15	88 35 14	.2	3	.7	.5	N	.2	N	N	N	50
I1004200	37 51 15	88 35 14	.1	1	.2	.2	N	.15	N	N	N	50
I1004230	37 51 15	88 35 14	.15	5	.5	.5	N	.2	N	N	N	30
I1004260	37 51 15	88 35 14	15	2	1.5	.3	N	.1	N	N	N	30
I1004320	37 51 15	88 35 14	.5	.7	.15	<.2	N	.05	N	N	N	20
I1004350	37 51 15	88 35 14	15	1.5	1	<.2	N	.3	<.5	N	N	15
I1004380	37 51 15	88 35 14	.2	7	.15	.2	N	.05	.5	N	N	10

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1001780	100	N	N	N	N	15	10	5	N	N	10	N	N
I1001880	50	N	N	N	<10	20	15	5	N	N	20	N	N
I1001920	300	<1	N	N	N	20	10	7	N	<50	10	N	N
I1001960	150	<1	N	N	<10	50	5	20	N	N	15	N	N
I1002000	100	<1	N	N	<10	30	10	30	N	N	15	N	N
I1002040	100	N	N	N	<10	20	7	7	N	N	<10	N	N
I1002100	200	1	N	N	10	50	20	30	N	<50	20	N	<20
I1002160	100	1	N	N	<10	50	7	30	N	N	10	N	N
I1002200	300	<1	N	N	<10	50	7	20	N	N	<10	N	N
I1002240	150	<1	N	N	<10	30	7	20	N	N	<10	N	N
I1002280	150	<1	N	N	15	50	10	20	N	N	10	N	N
I1002330	150	<1	N	N	<10	20	5	15	N	N	<10	N	N
I1002460	100	<1	N	N	<10	70	7	30	N	N	10	N	N
I1002600	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I1002650	200	<1	N	N	<10	50	15	20	N	N	<10	N	N
I1002700	150	<1	N	N	10	70	10	30	N	N	15	N	N
I1002950	150	N	N	N	<10	70	5	15	N	N	<10	N	N
I1002990	70	N	N	N	N	30	<5	20	N	N	<10	N	N
I1003025	70	<1	N	N	10	50	7	20	N	N	10	N	N
I1003095	70	1	N	N	10	50	5	20	N	N	15	N	N
I1003115	150	<1	N	N	<10	70	10	30	N	N	10	N	N
I1003140	150	1	N	N	10	100	30	50	N	<50	20	N	N
I1003160	100	<1	N	N	15	70	5	20	N	N	<10	N	N
I1003180	50	N	N	N	<10	30	<5	10	N	N	50	N	N
I1003205	70	<1	N	N	10	100	<5	50	N	N	<10	N	N
I1003225	50	N	N	N	<10	50	5	30	N	N	15	N	N
I1003240	<20	N	N	N	N	15	N	<5	N	N	100	N	N
I1003470	100	N	N	N	<10	20	15	20	N	N	150	N	N
I1003490	20	N	N	N	N	N	<5	N	N	N	10	N	N
I1003510	<20	N	N	N	N	N	N	N	N	N	N	N	N
I1003540	N	N	N	N	N	N	N	N	N	N	N	N	N
I1003570	30	N	N	N	N	N	15	N	N	N	10	<5	N
I1003610	N	N	N	N	N	N	N	N	N	N	N	N	N
I1003640	N	N	N	N	N	N	N	N	N	N	N	N	N
I1003660	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I1003690	70	N	N	N	N	30	15	5	N	N	20	7	50
I1003710	30	N	N	N	N	<10	5	N	N	N	<10	10	N
I1003740	50	N	N	N	N	10	7	<5	N	N	10	<5	N
I1003770	50	N	N	N	N	10	15	<5	N	N	10	<5	N
I1003800	300	N	N	N	<10	30	30	20	N	N	50	7	N
I1003830	150	N	N	N	<10	100	20	15	N	N	30	10	N
I1003860	150	N	N	N	N	10	15	<5	N	N	15	5	N
I1003890	100	N	N	N	N	20	15	5	N	N	15	5	N
I1003920	5,000	N	N	N	N	150	10	7	N	N	15	<5	N
I1003950	200	N	N	N	N	70	20	15	N	N	30	7	N
I1003980	100	N	N	N	N	30	30	20	N	N	30	5	N
I1004010	150	N	N	N	<10	100	30	30	N	N	50	10	N
I1004030	50	N	N	N	N	N	20	N	N	N	50	N	N
I1004050	200	N	N	N	N	10	10	<5	N	N	100	7	N
I1004070	200	N	N	N	N	30	20	10	N	N	30	N	N
I1004095	30	N	N	<20	N	<10	30	N	N	N	200	N	N
I1004120	20	N	N	<20	<10	<10	30	N	N	N	100	N	N
I1004140	N	N	N	N	N	N	<5	N	N	N	<10	N	N
I1004170	150	N	N	N	<10	50	70	20	N	N	30	N	N
I1004200	200	N	N	N	N	10	30	<5	N	N	15	N	N
I1004230	150	N	N	N	<10	30	20	20	N	N	100	<5	N
I1004260	70	N	N	N	N	<10	10	5	N	N	70	N	N
I1004320	70	N	N	N	N	N	7	N	N	N	<10	N	N
I1004350	>5,000	N	N	N	N	1,000	50	N	N	N	50	15	<20
I1004380	200	N	N	N	N	<10	20	N	N	N	300	7	N

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1001780	15	N	N	N	N	N	N	50	N	N	N	50	<.05	3
I1001880	70	20	N	<5	N	N	N	50	30	N	N	50	.05	3
I1001920	20	N	N	<5	N	N	N	70	N	<10	N	70	.05	3
I1001960	20	N	N	5	N	N	N	70	N	<10	N	70	<.05	3
I1002000	15	10	N	<5	N	N	N	50	N	N	N	30	.06	3
I1002040	10	<10	N	N	N	N	N	50	N	N	N	50	<.05	3
I1002100	20	10	N	7	N	N	N	100	N	10	N	70	<.05	3
I1002160	15	<10	N	5	N	N	N	50	N	<10	N	30	<.05	3
I1002200	15	<10	N	<5	N	N	N	50	N	N	N	30	.07	3
I1002240	20	N	N	<5	N	N	N	70	N	N	N	30	.08	3
I1002280	20	30	N	<5	N	N	N	70	N	N	N	50	.05	3
I1002330	10	N	N	<5	N	N	N	50	N	N	N	30	.05	3
I1002460	15	N	N	5	N	N	N	70	N	N	N	50	.05	4
I1002600	<5	N	N	N	N	N	N	10	N	N	<200	20	<.05	4
I1002650	15	N	N	<5	N	N	N	50	N	<10	N	50	.05	4
I1002700	20	<10	N	5	N	N	N	70	N	N	N	30	<.05	4
I1002950	15	N	N	<5	N	N	N	50	N	N	N	70	<.05	5
I1002990	10	N	N	<5	N	N	N	50	N	N	N	50	<.05	5
I1003025	15	N	N	5	N	N	N	50	N	N	N	50	.07	5
I1003095	20	<10	N	5	N	N	N	50	N	N	N	30	.08	5
I1003115	20	10	N	5	N	N	N	70	N	N	N	50	.08	5
I1003140	30	15	N	7	N	<100	N	100	N	<10	N	50	.07	5
I1003160	20	N	N	5	N	N	N	70	N	N	N	30	.07	5
I1003180	15	10	N	<5	N	100	N	50	N	N	N	30	.06	5
I1003205	20	<10	N	5	N	N	N	100	N	N	N	70	.08	5
I1003225	15	<10	N	<5	N	N	N	70	N	N	N	70	.08	5
I1003240	5	10	N	N	N	100	N	20	N	N	N	15	.05	5
I1003470	10	20	N	<5	N	300	N	50	N	N	N	30	.89	5
I1003490	N	N	N	N	N	500	N	N	N	N	N	10	<.05	5
I1003510	N	N	N	N	N	200	N	N	N	N	N	N	<.05	5
I1003540	<5	N	N	N	N	N	N	N	N	N	N	N	<.05	5
I1003570	7	N	N	N	N	<100	N	15	<20	N	500	<10	.12	5
I1003610	5	N	N	N	N	N	N	15	N	N	N	<10	<.05	5
I1003640	<5	N	N	N	N	N	N	N	N	N	N	10	.39	6
I1003660	5	<10	N	N	N	<100	N	10	N	N	<200	<10	<.05	6
I1003690	30	<10	N	N	N	N	N	70	2,000	N	300	30	.08	6
I1003710	15	<10	N	N	N	<100	N	30	N	N	<200	20	.67	6
I1003740	15	N	N	N	N	N	N	30	N	N	N	70	.12	6
I1003770	15	N	N	N	N	200	N	50	150	N	<200	50	.09	6
I1003800	20	500	N	<5	N	300	N	100	N	N	N	50	.18	6
I1003830	50	10	N	<5	N	150	N	150	N	N	200	70	.18	6
I1003860	20	N	N	N	N	1,000	N	30	700	N	<200	20	.08	6
I1003890	20	N	N	N	N	100	N	50	50	N	N	30	.14	6
I1003920	15	N	N	N	N	>5,000	N	50	<20	N	N	30	.1	6
I1003950	20	150	N	N	N	N	N	70	N	N	N	20	.14	6
I1003980	15	2,000	N	<5	N	N	N	70	N	N	N	20	.18	6
I1004010	50	300	N	<5	N	N	N	100	N	N	N	70	.24	6
I1004030	<5	N	N	N	N	2,000	N	10	<20	N	N	N	.13	6
I1004050	10	1,000	N	N	N	300	N	20	<20	<10	N	30	.09	6
I1004070	15	200	N	<5	N	N	N	150	20	N	500	70	.09	6
I1004095	5	<10	N	N	N	<100	N	30	N	N	1,000	15	.8	6
I1004120	20	N	N	N	N	N	N	50	N	N	700	30	--	6
I1004140	<5	N	N	N	N	N	N	N	N	N	N	<10	<.05	6
I1004170	20	<10	N	<5	N	N	N	100	N	N	N	70	.18	6
I1004200	15	N	N	N	N	N	N	50	N	N	N	30	.11	6
I1004230	20	N	N	<5	N	N	N	70	N	N	N	30	.2	6
I1004260	10	30	N	N	N	<100	N	50	20	N	N	30	.1	6
I1004320	7	N	N	N	N	N	N	15	N	N	N	20	.05	6
I1004350	7	7,000	N	N	N	2,000	N	20	70	<10	N	30	.09	6
I1004380	10	100	N	N	N	<100	N	15	<20	10	<200	30	.19	6

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1004410	37 51 15	88 35 14	5	2	.2	N	N	.007	N	N	N	10
I1004440	37 51 15	88 35 14	.1	.5	.02	N	N	.02	<.5	N	N	30
I1004470	37 51 15	88 35 14	.5	1.5	<.02	N	N	.015	N	N	N	30
I1004490	37 51 15	88 35 14	20	.7	3	<.2	N	.002	N	N	N	<10
I1004520	37 51 15	88 35 14	.7	.5	.03	N	N	.02	N	N	N	15
I1004550	37 51 15	88 35 14	1	1.5	.15	N	N	.02	<.5	N	N	30
I1004580	37 51 15	88 35 14	1.5	5	.5	<.2	N	.1	.7	N	N	20
I1004610	37 51 15	88 35 14	.3	1	.15	N	N	.1	.5	N	N	30
I1004640	37 51 15	88 35 14	.3	.5	.07	N	N	.03	N	N	N	30
I1004670	37 51 15	88 35 14	20	1	2	<.2	N	.02	N	N	N	15
I1004700	37 51 15	88 35 14	.2	.7	.05	N	N	.03	N	N	N	50
I1004720	37 51 15	88 35 14	.5	1.5	.05	N	N	.03	N	N	N	30
I1004750	37 51 15	88 35 14	.07	1	.02	N	N	.02	N	N	N	50
I1004780	37 51 15	88 35 14	.1	1	.05	N	N	.05	N	N	N	30
I1004810	37 51 15	88 35 14	.07	1	.07	N	N	.03	N	N	N	30
I1004830	37 51 15	88 35 14	.2	.7	.3	<.2	N	.07	N	N	N	50
I1004860	37 51 15	88 35 14	.05	.7	.2	<.2	N	.05	N	N	N	20
I1004900	37 51 15	88 35 14	<.05	.5	.15	<.2	N	.05	N	N	N	30
I1005230	37 51 15	88 35 14	.15	2	1	.5	N	.15	N	N	N	70
I1005260	37 51 15	88 35 14	.05	2	.7	.3	N	.1	N	N	N	30
I1005290	37 51 15	88 35 14	.07	2	.7	.3	N	.15	N	N	N	50
I1005320	37 51 15	88 35 14	<.05	7	2	1.5	N	.3	N	N	N	100
I1005350	37 51 15	88 35 14	.15	5	1.5	1	N	.3	<.5	N	N	100
I1005370	37 51 15	88 35 14	.05	1.5	.3	.3	N	.05	N	N	N	30
I1005390	37 51 15	88 35 14	.1	2	1	.5	N	.15	N	N	N	70
I1005420	37 51 15	88 35 14	<.05	1.5	.5	.2	N	.1	N	N	N	50
I1005450	37 51 15	88 35 14	.07	2	.7	.3	N	.15	N	N	N	70
I1005480	37 51 15	88 35 14	.05	1.5	.5	.3	N	.15	N	N	N	50
I1005510	37 51 15	88 35 14	.1	5	1	.7	N	.3	N	N	N	100
I1005540	37 51 15	88 35 14	.1	1.5	.3	<.2	N	.07	N	N	N	50
I1005560	37 51 15	88 35 14	<.05	1	.5	<.2	N	.05	<.5	N	N	30
I1005590	37 51 15	88 35 14	.07	1.5	.2	N	N	.05	N	N	N	30
I1005630	37 51 15	88 35 14	.07	.7	.15	N	N	.03	N	N	N	30
I1005670	37 51 15	88 35 14	.2	1.5	.5	.2	N	.1	N	N	N	70
I1005710	37 51 15	88 35 14	.15	1	.2	N	N	.03	N	N	N	50
I1005750	37 51 15	88 35 14	.3	1	.3	<.2	N	.07	N	N	N	50
I1005790	37 51 15	88 35 14	.07	.7	.2	<.2	N	.05	N	N	N	50
I1005830	37 51 15	88 35 14	.05	.7	.2	N	N	.03	N	N	N	50
I1005860	37 51 15	88 35 14	.2	1	.3	<.2	N	.05	N	N	N	50
I1005900	37 51 15	88 35 14	.3	.7	.2	N	N	.03	N	N	N	30
I1005930	37 51 15	88 35 14	.1	1.5	.5	.2	N	.1	N	N	N	70
I1005960	37 51 15	88 35 14	<.05	1	.3	<.2	N	.1	N	N	N	70
I1005990	37 51 15	88 35 14	.05	1.5	.7	.2	N	.2	N	N	N	100
I1006020	37 51 15	88 35 14	.3	1	.7	.2	N	.1	N	N	N	70
I1006040	37 51 15	88 35 14	.2	.5	.2	N	N	.03	N	N	N	50
I1006070	37 51 15	88 35 14	.15	.2	.15	N	N	.02	N	N	N	30
I1006090	37 51 15	88 35 14	.2	.5	.3	<.2	N	.05	N	N	N	50
I1006110	37 51 15	88 35 14	.15	.2	.2	N	N	.02	N	N	N	50
I1006140	37 51 15	88 35 14	.1	.3	.1	N	N	.02	N	N	N	30
I1006160	37 51 15	88 35 14	.2	.2	.3	N	N	.05	N	N	N	50
I1006180	37 51 15	88 35 14	.1	.5	.2	<.2	N	.03	N	N	N	30
I1006210	37 51 15	88 35 14	.1	.5	.2	.2	N	.07	N	N	N	30
I1006230	37 51 15	88 35 14	.15	.3	.2	N	N	.03	N	N	N	30
I1006260	37 51 15	88 35 14	.1	.5	.15	N	N	.05	N	N	N	20
I1006290	37 51 15	88 35 14	.5	.7	.5	<.2	N	.1	N	N	N	50
I1006320	37 51 15	88 35 14	.15	1	.7	.3	N	.15	N	N	N	70
I1006350	37 51 15	88 35 14	.15	.7	.3	.5	N	.07	N	N	N	30
I1006380	37 51 15	88 35 14	.5	1	1	.7	N	.15	N	N	N	70
I1006410	37 51 15	88 35 14	.07	.7	.2	.2	N	.07	N	N	N	20
I1006440	37 51 15	88 35 14	.2	.7	.7	.5	N	.07	N	N	N	30

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1004410	<20	N	N	N	N	N	5	N	N	N	50	N	N
I1004440	20	N	N	N	N	N	5	N	N	N	<10	N	N
I1004470	20	N	N	N	N	N	10	N	N	N	20	N	N
I1004490	N	N	N	N	N	N	<5	N	N	N	30	N	N
I1004520	<20	N	N	N	N	N	10	N	N	N	<10	N	N
I1004550	50	N	N	N	N	N	10	N	N	N	100	N	N
I1004580	100	N	N	N	N	10	30	<5	N	N	70	5	N
I1004610	70	N	N	<20	N	N	10	N	N	N	10	N	N
I1004640	<20	N	N	N	N	N	7	N	N	N	<10	N	N
I1004670	20	N	N	N	N	N	<5	N	N	N	30	N	N
I1004700	30	N	N	N	N	N	5	N	N	N	<10	N	N
I1004720	200	N	N	N	N	N	5	N	N	N	30	N	N
I1004750	N	N	N	N	N	N	15	N	N	N	10	N	N
I1004780	50	N	N	N	N	N	5	N	N	N	30	N	N
I1004810	70	N	N	N	N	N	15	N	N	N	15	N	N
I1004830	30	N	N	N	N	N	5	N	N	N	10	N	N
I1004860	50	N	N	N	N	N	10	N	N	N	<10	N	N
I1004900	50	N	N	N	N	N	5	N	N	N	<10	N	N
I1005230	70	<1	N	N	<10	15	50	30	N	N	30	7	N
I1005260	50	N	N	N	<10	10	20	15	N	N	15	<5	N
I1005290	150	N	N	N	10	15	30	7	N	N	50	7	N
I1005320	500	1	N	N	20	70	30	70	N	<50	100	7	N
I1005350	500	1.5	N	N	15	70	30	30	N	N	100	10	N
I1005370	150	N	N	N	N	<10	20	5	N	N	<10	5	N
I1005390	100	<1	N	N	10	15	30	15	N	N	50	7	N
I1005420	200	N	N	N	N	<10	20	<5	N	N	15	5	N
I1005450	100	N	N	N	<10	10	20	10	N	N	30	5	N
I1005480	70	N	N	N	<10	10	7	5	N	N	20	<5	N
I1005510	200	1	N	N	15	30	30	30	N	N	70	15	N
I1005540	50	N	N	N	N	<10	7	<5	N	N	20	<5	N
I1005560	70	N	N	N	N	<10	20	<5	N	N	15	5	N
I1005590	200	N	N	N	N	N	70	N	N	N	30	<5	N
I1005630	20	N	N	N	N	N	7	N	N	N	<10	N	N
I1005670	150	N	N	N	<10	<10	15	<5	N	N	50	5	N
I1005710	20	N	N	N	N	N	5	N	N	N	15	<5	N
I1005750	30	N	N	N	N	N	7	N	N	N	10	N	N
I1005790	30	N	N	N	N	N	10	N	N	N	<10	N	N
I1005830	20	N	N	N	N	N	5	N	N	N	10	N	N
I1005860	30	N	N	N	N	N	7	<5	N	N	<10	N	N
I1005900	<20	N	N	N	N	N	5	N	N	N	<10	N	N
I1005930	70	N	N	N	10	<10	30	<5	N	N	30	<5	N
I1005960	50	N	N	N	N	<10	<5	<5	N	N	50	N	N
I1005990	150	<1	N	N	<10	10	10	5	N	N	20	N	N
I1006020	70	N	N	N	N	<10	5	5	N	N	20	N	N
I1006040	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I1006070	<20	N	N	N	N	N	5	N	N	N	N	N	N
I1006090	30	N	N	N	N	N	<5	N	N	N	N	N	N
I1006110	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I1006140	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I1006160	20	N	N	N	N	N	N	N	N	N	<10	N	N
I1006180	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I1006210	30	N	N	N	N	N	15	N	N	N	<10	N	N
I1006230	20	N	N	N	N	N	N	N	N	N	N	N	N
I1006260	30	N	N	N	N	N	<5	N	N	N	N	N	N
I1006290	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I1006320	100	N	N	N	<10	10	10	10	N	N	10	<5	N
I1006350	50	N	N	N	N	<10	5	5	N	N	<10	5	N
I1006380	150	N	N	N	N	<10	7	10	N	N	15	N	N
I1006410	30	N	N	N	N	N	7	N	N	N	<10	N	N
I1006440	70	N	N	N	N	<10	10	5	N	N	<10	N	N

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1004410	<5	N	N	N	N	<100	N	N	N	N	N	N	<.05	6
I1004440	15	N	N	N	N	500	N	<10	N	N	200	<10	<.05	6
I1004470	<5	N	N	N	N	1,000	N	N	N	N	<200	N	.71	6
I1004490	N	100	N	N	N	300	N	N	N	N	N	N	.21	6
I1004520	5	N	N	N	N	100	N	N	N	N	<200	10	.06	6
I1004550	7	N	N	N	N	700	N	N	N	N	N	10	.07	6
I1004580	15	15	N	N	N	500	N	20	N	N	300	30	1.31	6
I1004610	10	N	N	N	N	N	N	20	N	N	1,500	30	.05	6
I1004640	5	N	N	N	N	N	N	15	N	N	N	20	<.05	6
I1004670	<5	500	N	N	N	300	N	10	N	N	N	<10	<.05	6
I1004700	5	N	N	N	N	300	N	10	<20	N	N	10	.08	6
I1004720	5	700	N	N	N	5,000	N	10	N	N	N	20	.08	6
I1004750	5	N	N	N	N	150	N	10	N	N	N	<10	<.05	6
I1004780	7	N	N	N	N	100	N	15	N	N	200	10	<.05	6
I1004810	5	N	N	N	N	N	N	10	N	N	<200	15	<.05	6
I1004830	7	200	N	N	N	N	N	20	N	N	N	20	<.05	7
I1004860	10	N	N	N	N	N	N	20	N	N	N	15	<.05	7
I1004900	10	N	N	N	N	N	N	20	N	N	N	10	<.05	7
I1005230	30	15	N	<5	N	N	N	100	N	N	N	30	.09	10
I1005260	10	10	N	N	N	N	N	70	N	N	N	20	.07	10
I1005290	20	N	N	<5	N	N	N	100	N	N	N	30	.05	10
I1005320	70	20	N	10	N	N	N	200	N	10	N	50	.07	10
I1005350	50	30	N	7	N	N	N	200	N	<10	200	30	.05	10
I1005370	15	<10	N	N	N	N	N	50	N	N	N	10	<.05	10
I1005390	20	10	N	<5	N	N	N	100	N	N	N	20	<.05	10
I1005420	15	50	N	N	N	N	N	70	N	N	N	15	<.05	10
I1005450	20	15	N	<5	N	N	N	100	N	N	N	20	<.05	10
I1005480	20	<10	N	<5	N	N	N	70	N	N	N	15	<.05	10
I1005510	50	<10	N	7	N	N	N	150	N	<10	<200	50	<.05	10
I1005540	15	10	N	N	N	N	N	50	N	N	N	70	<.05	10
I1005560	15	50	N	N	N	N	N	70	N	N	N	15	<.05	10
I1005590	10	1,500	N	N	N	N	N	30	<20	N	N	30	<.05	10
I1005630	5	<10	N	N	N	N	N	15	20	N	N	30	<.05	10
I1005670	15	N	N	N	N	N	N	50	N	N	N	20	<.05	10
I1005710	7	N	N	N	N	N	N	30	N	N	N	15	<.05	10
I1005750	10	N	N	N	N	N	N	30	N	N	N	20	<.05	10
I1005790	7	N	N	N	N	N	N	20	50	N	N	15	<.05	10
I1005830	5	N	N	N	N	N	N	20	N	N	N	15	<.05	10
I1005860	10	N	N	N	N	N	N	30	N	N	N	15	<.05	10
I1005900	7	N	N	N	N	N	N	15	N	N	N	10	<.05	10
I1005930	20	200	N	<5	N	N	N	50	N	N	N	20	<.05	10
I1005960	20	20	N	N	N	N	N	30	N	N	N	10	<.05	10
I1005990	30	50	N	<5	N	N	N	70	N	N	N	30	<.05	10
I1006020	15	N	N	N	N	N	N	50	N	N	N	15	<.05	10
I1006040	5	N	N	N	N	N	N	15	N	N	N	15	<.05	10
I1006070	5	N	N	N	N	N	N	30	N	N	N	<10	<.05	10
I1006090	5	N	N	N	N	N	N	20	N	N	N	10	<.05	10
I1006110	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	10
I1006140	N	N	N	N	N	N	N	N	30	N	N	10	<.05	10
I1006160	<5	N	N	N	N	N	N	10	N	N	N	15	<.05	10
I1006180	<5	N	N	N	N	N	N	10	N	N	N	20	<.05	10
I1006210	5	20	N	N	N	N	N	30	N	N	N	20	<.05	10
I1006230	<5	N	N	N	N	N	N	20	N	N	N	20	<.05	10
I1006260	<5	N	N	N	N	N	N	15	N	N	N	20	<.05	10
I1006290	5	N	N	N	N	N	N	20	N	N	N	20	<.05	10
I1006320	10	N	N	<5	N	N	N	70	N	N	N	30	<.05	10
I1006350	5	N	N	N	N	N	N	20	N	N	N	15	<.05	10
I1006380	7	N	N	N	N	N	N	50	N	N	N	30	<.05	10
I1006410	5	N	N	N	N	N	N	20	N	N	N	20	<.05	10
I1006440	5	N	N	N	N	N	N	30	100	N	N	20	.05	10

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I1006470	37 51 15	88 35 14	.5	.7	1	.5	N	.1	N	N	N	30
I1006490	37 51 15	88 35 14	.2	1	1	.7	N	.15	N	N	N	30
I1006520	37 51 15	88 35 14	.15	1.5	1	.7	N	.2	N	N	N	70
I1006540	37 51 15	88 35 14	.1	2	1	.7	N	.3	N	N	N	70
I1006560	37 51 15	88 35 14	.15	1	.7	.3	N	.1	N	N	N	30
I1006590	37 51 15	88 35 14	.15	1	1	.3	N	.15	N	N	N	50
I1006620	37 51 15	88 35 14	.1	1.5	1	1.5	N	.2	N	N	N	70
I1006650	37 51 15	88 35 14	.07	2	1	1	N	.2	N	N	N	70
I1006670	37 51 15	88 35 14	.15	3	2	1.5	N	.3	N	N	N	100
I1006690	37 51 15	88 35 14	.1	3	1.5	1	N	.3	N	N	N	100
I1006710	37 51 15	88 35 14	.1	1.5	1.5	1.5	N	.3	N	N	N	70
I1006730	37 51 15	88 35 14	.1	1.5	1	.7	N	.2	N	N	N	70
I1006750	37 51 15	88 35 14	<.05	2	1.5	1	N	.3	N	N	N	70
I1006770	37 51 15	88 35 14	<.05	2	1.5	1.5	N	.2	N	N	N	30
I1006800	37 51 15	88 35 14	N	2	1.5	1.5	N	.2	N	N	N	30
I1006820	37 51 15	88 35 14	.07	3	2	1	N	.2	N	N	N	100
I1006840	37 51 15	88 35 14	.07	1.5	1	.5	N	.2	N	N	N	70
I1006870	37 51 15	88 35 14	.07	2	1.5	1	N	.2	N	N	N	100
I1006890	37 51 15	88 35 14	.1	1	.5	.2	N	.07	N	N	N	70
I1006910	37 51 15	88 35 14	.15	1	.5	.5	N	.1	N	N	N	30
I1006940	37 51 15	88 35 14	.15	1	.7	1	N	.2	N	N	N	30
I1006970	37 51 15	88 35 14	.1	1.5	.7	1.5	N	.3	N	N	N	50
I1007000	37 51 15	88 35 14	.05	1.5	1	1.5	N	.5	N	N	N	50
I1007050	37 51 15	88 35 14	<.05	1.5	1	1.5	N	.3	N	N	N	30
I1007100	37 51 15	88 35 14	N	2	1	1.5	N	.3	N	N	N	30
I1007130	37 51 15	88 35 14	<.05	2	1	1	N	.5	N	N	N	30
I1007170	37 51 15	88 35 14	.07	3	1	1.5	N	.5	N	N	N	70
I1007200	37 51 15	88 35 14	.05	2	1	1.5	N	.2	N	N	N	50
I1007230	37 51 15	88 35 14	.15	1.5	.7	1	N	.15	N	N	N	30
I1007260	37 51 15	88 35 14	.2	2	1	1	N	.2	N	N	N	70
I1007280	37 51 15	88 35 14	2	2	1.5	.7	N	.1	N	N	N	20
I1007310	37 51 15	88 35 14	5	3	5	1	N	.15	N	N	N	50
I1007340	37 51 15	88 35 14	.3	2	1	.5	N	.2	N	N	N	30
I1007370	37 51 15	88 35 14	.1	2	1	.7	N	.3	N	N	N	50
I1007400	37 51 15	88 35 14	.07	2	.7	.3	N	.15	N	N	N	50
I1007430	37 51 15	88 35 14	10	1.5	3	.5	N	.1	N	N	N	20
I1007460	37 51 15	88 35 14	15	1	5	.5	N	.07	N	N	N	20
I1007480	37 51 15	88 35 14	.2	2	.7	.5	N	.2	N	N	N	50
I1007510	37 51 15	88 35 14	10	1	7	.3	N	.05	N	N	N	15
I1007540	37 51 15	88 35 14	10	1	7	.3	N	.05	N	N	N	15
I1007570	37 51 15	88 35 14	10	.7	5	.2	N	.03	N	N	N	10
I1007600	37 51 15	88 35 14	15	2	7	.5	N	.07	N	N	N	20
I1007630	37 51 15	88 35 14	20	1	5	.3	N	.05	N	N	N	15
I1007660	37 51 15	88 35 14	20	.7	5	<.2	N	.03	N	N	N	10
I1007690	37 51 15	88 35 14	15	1.5	5	.3	N	.07	N	N	N	20
I1007710	37 51 15	88 35 14	5	2	5	1	N	.15	N	N	N	50
I1007740	37 51 15	88 35 14	15	.7	7	.3	N	.05	N	N	N	15
I1007770	37 51 15	88 35 14	15	.5	7	<.2	N	.02	N	N	N	<10
I1007800	37 51 15	88 35 14	5	2	5	.5	N	.15	N	N	N	30
I1007830	37 51 15	88 35 14	7	1.5	5	.3	N	.07	N	N	N	15
I1007860	37 51 15	88 35 14	15	1	.7	.5	N	.1	N	N	N	100
I1007900	37 51 15	88 35 14	20	.5	10	<.2	N	.03	N	N	N	100
I1007930	37 51 15	88 35 14	20	1.5	3	.3	N	.1	N	N	N	70
I1007960	37 51 15	88 35 14	10	.7	7	.3	N	.07	N	N	N	15
I1007990	37 51 15	88 35 14	3	1	5	.3	N	.07	N	N	N	20
I1008020	37 51 15	88 35 14	.7	2	3	.3	N	.2	N	N	N	30
I1008050	37 51 15	88 35 14	<.05	.3	.2	N	N	.02	N	N	N	N
I1008080	37 51 15	88 35 14	1.5	1	3	.2	N	.07	N	N	N	30
I1008110	37 51 15	88 35 14	<.05	.7	.5	N	N	.05	N	N	N	20
I1008140	37 51 15	88 35 14	.1	2	1.5	.3	N	.2	N	N	N	70

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 1100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1006470	100	N	N	N	N	10	7	7	N	N	<10	N	N
I1006490	100	N	N	N	N	15	10	15	N	N	<10	N	N
I1006520	150	N	N	N	N	15	5	20	N	N	10	<5	N
I1006540	200	N	N	N	<10	20	5	20	N	N	15	<5	N
I1006560	70	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I1006590	70	N	N	N	N	<10	7	7	N	N	10	N	N
I1006620	150	<1	N	N	N	20	<5	10	N	N	15	N	N
I1006650	200	<1	N	N	<10	20	7	15	N	N	20	<5	N
I1006670	300	<1	N	N	15	30	10	30	N	N	20	<5	N
I1006690	200	<1	N	N	10	30	15	30	N	N	20	5	N
I1006710	200	N	N	N	<10	30	5	20	N	N	15	N	N
I1006730	150	<1	N	N	<10	15	15	15	N	N	15	<5	N
I1006750	200	<1	N	N	<10	30	7	30	N	N	20	<5	N
I1006770	200	<1	N	N	30	20	20	20	N	N	10	N	N
I1006800	200	N	N	N	N	20	7	20	N	N	15	<5	N
I1006820	300	<1	N	N	20	50	20	50	N	<50	20	5	N
I1006840	150	<1	N	N	<10	20	20	15	N	N	10	<5	N
I1006870	200	N	N	N	20	30	20	30	N	N	10	<5	N
I1006890	50	N	N	N	N	N	10	<5	N	N	<10	N	N
I1006910	300	N	N	N	N	<10	15	10	N	N	<10	<5	N
I1006940	100	N	N	N	N	10	7	10	N	N	<10	<5	N
I1006970	200	<1	N	N	N	10	10	15	N	N	10	<5	N
I1007000	200	<1	N	N	N	15	15	20	N	N	15	N	<20
I1007050	150	<1	N	N	N	20	15	30	N	N	20	5	N
I1007100	150	<1	N	N	<10	20	10	50	N	N	30	N	N
I1007130	200	1	N	N	<10	30	15	30	N	N	30	<5	N
I1007170	200	1	N	N	10	20	20	30	N	N	50	<5	N
I1007200	200	<1	N	N	10	50	20	50	N	N	20	7	N
I1007230	150	<1	N	N	<10	15	10	20	N	N	15	5	N
I1007260	300	<1	N	N	<10	20	15	30	N	N	30	N	N
I1007280	70	N	N	N	<10	10	10	15	N	N	50	N	N
I1007310	200	N	N	N	15	30	10	30	N	N	150	N	N
I1007340	100	N	N	N	<10	10	7	10	N	N	50	<5	N
I1007370	150	N	N	N	10	15	15	20	N	N	70	N	N
I1007400	70	N	N	N	<10	10	10	20	N	N	30	<5	N
I1007430	50	N	N	N	N	10	7	10	N	N	50	N	N
I1007460	50	N	N	N	N	10	<5	7	N	N	70	N	N
I1007480	150	N	N	N	<10	10	10	30	N	N	50	N	N
I1007510	20	N	N	N	N	<10	5	5	N	N	50	N	N
I1007540	30	N	N	N	N	<10	10	5	N	N	50	N	N
I1007570	20	N	N	N	N	<10	5	<5	N	N	30	N	N
I1007600	100	N	N	N	<10	20	7	7	N	N	150	N	N
I1007630	50	N	N	N	N	<10	<5	<5	N	N	100	N	N
I1007660	100	N	N	N	N	<10	<5	<5	N	N	30	N	N
I1007690	70	N	N	N	<10	15	<5	7	N	N	100	N	N
I1007710	150	<1	N	N	<10	20	15	20	N	N	70	<5	N
I1007740	20	N	N	N	N	<10	<5	<5	N	N	30	N	N
I1007770	N	N	N	N	N	N	N	N	N	N	20	N	N
I1007800	70	N	N	N	<10	30	10	20	N	N	50	N	N
I1007830	50	N	N	N	<10	20	7	15	N	N	30	N	N
I1007860	200	N	N	N	N	10	7	5	N	N	10	N	N
I1007900	30	N	N	N	N	N	<5	<5	N	N	15	N	N
I1007930	300	N	N	N	<10	30	10	5	N	N	10	N	N
I1007960	70	N	N	N	N	<10	5	5	N	N	15	N	N
I1007990	200	N	N	N	N	10	10	10	N	N	30	N	N
I1008020	300	N	N	N	<10	20	15	20	N	N	30	N	N
I1008050	50	N	N	N	N	N	<5	N	N	N	N	N	N
I1008080	50	N	N	N	N	10	5	5	N	N	15	N	N
I1008110	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I1008140	150	N	N	N	10	30	30	20	N	N	10	7	N

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1006470	7	N	N	N	N	N	N	30	N	N	N	15	.05	10
I1006490	10	<10	N	<5	N	N	N	50	N	N	N	20	.07	10
I1006520	15	N	N	5	N	N	N	70	N	N	N	30	.05	10
I1006540	15	N	N	5	N	N	N	100	N	N	N	30	.05	10
I1006560	7	N	N	N	N	N	N	50	N	N	N	15	.05	10
I1006590	7	N	N	N	N	N	N	50	N	N	N	20	.05	10
I1006620	10	N	N	<5	N	N	N	70	N	N	N	30	.06	10
I1006650	20	N	N	<5	N	N	N	100	N	N	N	50	.05	15
I1006670	20	N	N	7	N	N	N	100	N	N	N	50	.06	15
I1006690	20	N	N	7	N	N	N	100	N	<10	N	50	.05	15
I1006710	10	N	N	<5	N	N	N	70	N	N	N	30	.06	15
I1006730	10	N	N	<5	N	N	N	50	N	N	N	30	.06	15
I1006750	15	<10	N	5	N	N	N	70	<20	N	N	30	.06	15
I1006770	15	<10	N	<5	N	N	N	50	N	N	N	30	.05	15
I1006800	10	<10	N	<5	N	N	N	50	N	N	N	50	.05	15
I1006820	20	<10	N	7	N	N	N	100	N	<10	N	50	.05	15
I1006840	10	N	N	<5	N	N	N	70	N	N	N	30	.05	15
I1006870	20	<10	N	5	N	N	N	70	20	N	N	30	.05	15
I1006890	7	N	N	N	N	N	N	20	N	N	N	10	<.05	15
I1006910	10	N	N	N	N	N	N	50	N	N	N	15	<.05	15
I1006940	15	10	N	<5	N	N	N	50	N	N	N	70	.05	15
I1006970	10	15	N	<5	N	N	N	50	N	<10	N	100	.05	22
I1007000	7	N	N	5	N	N	N	50	N	<10	N	150	<.05	22
I1007050	7	<10	N	5	N	N	N	70	N	N	N	50	.05	22
I1007100	10	<10	N	5	N	N	N	70	N	N	N	50	.05	22
I1007130	7	30	N	5	N	N	N	70	N	N	N	50	.05	22
I1007170	15	20	N	7	N	N	N	100	N	<10	N	100	.06	25
I1007200	20	<10	N	7	N	N	N	150	N	N	N	30	.05	25
I1007230	10	70	N	<5	N	N	N	50	N	N	N	30	.09	25
I1007260	15	10	N	5	N	<100	N	70	N	N	N	70	.05	26
I1007280	10	10	N	N	N	N	N	30	N	N	N	20	.07	26
I1007310	30	15	N	7	N	N	N	100	N	<10	N	30	.08	26
I1007340	15	N	N	<5	N	N	N	50	N	N	N	30	.06	26
I1007370	20	<10	N	5	N	N	N	70	N	N	N	50	.06	26
I1007400	15	<10	N	<5	N	N	N	50	N	N	N	30	.05	26
I1007430	7	<10	N	<5	N	N	N	30	N	N	N	15	.06	26
I1007460	7	<10	N	<5	N	<100	N	15	N	N	N	10	.07	26
I1007480	15	N	N	<5	N	N	N	50	N	N	N	30	.08	26
I1007510	5	<10	N	N	N	<100	N	15	N	N	N	15	.07	26
I1007540	7	<10	N	N	N	<100	N	15	N	N	N	10	.06	26
I1007570	<5	<10	N	N	N	100	N	15	N	N	N	10	.07	26
I1007600	10	15	N	<5	N	100	N	30	N	<10	N	15	.07	26
I1007630	5	20	N	N	N	150	N	20	N	N	N	10	.06	26
I1007660	5	30	N	N	N	100	N	20	N	N	N	10	.06	26
I1007690	7	100	N	<5	N	150	N	30	N	<10	N	20	.07	26
I1007710	15	10	N	<5	N	N	N	50	N	<10	N	30	.09	26
I1007740	<5	15	N	N	N	<100	N	10	N	N	N	10	.06	26
I1007770	<5	10	N	N	N	<100	N	<10	N	N	N	N	<.05	26
I1007800	10	<10	N	5	N	N	N	50	N	N	N	20	.15	26
I1007830	7	100	N	<5	N	100	N	20	N	N	N	10	.15	26
I1007860	7	<10	N	<5	N	1,500	N	30	N	N	N	20	.11	26
I1007900	<5	<10	N	N	N	500	N	15	N	N	N	<10	.18	30
I1007930	10	<10	N	<5	N	5,000	N	50	N	N	N	50	.21	30
I1007960	5	<10	N	N	N	300	N	20	N	N	N	15	.24	30
I1007990	7	3,000	N	N	N	<100	N	20	N	N	N	20	.14	30
I1008020	15	10	N	<5	N	N	N	50	N	N	N	70	.16	31
I1008050	<5	N	N	N	N	N	N	10	30	N	N	20	.05	31
I1008080	7	N	N	N	N	N	N	30	N	N	N	30	.06	31
I1008110	5	N	N	N	N	N	N	15	N	N	N	30	<.05	31
I1008140	15	<10	N	<5	N	N	N	70	N	N	N	70	.11	31

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1008170	37 51 15	88 35 14	N	.1	.03	N	N	.015	N	N	N	N
I1008200	37 51 15	88 35 14	N	.7	.2	N	N	.07	N	N	N	10
I1008230	37 51 15	88 35 14	N	.2	.03	N	N	.02	N	N	N	N
I1008250	37 51 15	88 35 14	N	.5	.1	N	N	.03	N	N	N	<10
I1008270	37 51 15	88 35 14	N	.3	.07	N	N	.03	N	N	N	<10
I1008300	37 51 15	88 35 14	N	.5	.15	N	N	.05	N	N	N	10
I1008320	37 51 15	88 35 14	N	.1	.02	N	N	.015	N	N	N	N
I1008340	37 51 15	88 35 14	N	.07	<.02	N	N	.01	N	N	N	N
I1008360	37 51 15	88 35 14	N	.5	.1	<.2	N	.03	N	N	N	10
I1008380	37 51 15	88 35 14	.5	.5	.7	<.2	N	.03	N	N	N	<10
I1008400	37 51 15	88 35 14	N	.1	.02	N	N	.02	N	N	N	N
I1008420	37 51 15	88 35 14	N	.05	<.02	N	N	.01	N	N	N	N
I1008440	37 51 15	88 35 14	N	.07	<.02	N	N	.015	N	N	N	N
I1008470	37 51 15	88 35 14	<.05	.2	.05	N	N	.02	N	N	N	<10
I1008500	37 51 15	88 35 14	<.05	.3	.05	N	N	.02	N	N	N	N
I1008530	37 51 15	88 35 14	<.05	1	.5	.2	N	.1	N	N	N	30
I1008550	37 51 15	88 35 14	N	.2	.03	N	N	.03	N	N	N	10
I1008570	37 51 15	88 35 14	N	.3	.03	N	N	.02	N	N	N	N
I1008590	37 51 15	88 35 14	N	.5	.07	N	N	.05	N	N	N	15
I1008610	37 51 15	88 35 14	<.05	.15	.07	N	N	.02	N	N	N	N
I1008630	37 51 15	88 35 14	N	.7	.3	.3	N	.1	N	N	N	10
I1008660	37 51 15	88 35 14	.05	1	.5	<.2	N	.1	N	N	N	30
I1008690	37 51 15	88 35 14	.2	1.5	1	<.2	N	.1	N	N	N	20
I1008710	37 51 15	88 35 14	N	1	.7	.2	N	.15	N	N	N	30
I1008730	37 51 15	88 35 14	<.05	.7	.2	<.2	N	.07	N	N	N	N

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1008170	N	N	N	N	N	N	N	N	N	N	N	N	N
I1008200	30	N	N	N	N	N	5	N	N	N	<10	10	N
I1008230	N	N	N	N	N	N	15	N	N	N	N	N	N
I1008250	20	N	N	N	N	N	5	N	N	N	<10	N	N
I1008270	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I1008300	30	N	N	N	N	N	5	N	N	N	<10	N	N
I1008320	N	N	N	N	N	N	<5	N	N	N	N	N	N
I1008340	N	N	N	N	N	N	N	N	N	N	N	N	N
I1008360	30	N	N	N	N	N	5	N	N	N	<10	N	N
I1008380	50	N	N	N	N	N	5	N	N	N	10	N	N
I1008400	<20	N	N	N	N	N	N	N	N	N	N	N	N
I1008420	N	N	N	N	N	N	N	N	N	N	N	N	N
I1008440	N	N	N	N	N	N	N	N	N	N	N	N	N
I1008470	<20	N	N	N	N	N	15	N	N	N	N	N	N
I1008500	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I1008530	150	N	N	N	N	<10	10	5	N	N	10	5	N
I1008550	50	N	N	N	N	N	<5	N	N	N	N	N	N
I1008570	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I1008590	500	N	N	N	N	N	10	N	N	N	<10	N	N
I1008610	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I1008630	70	N	N	N	N	<10	7	10	N	N	N	N	N
I1008660	70	N	N	N	N	<10	10	5	N	N	<10	<5	N
I1008690	200	N	N	N	N	<10	20	7	N	N	15	5	N
I1008710	200	N	N	N	N	10	15	7	N	N	<10	<5	N
I1008730	500	N	N	N	<10	<10	7	N	N	N	<10	<5	N

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I100, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1008170	N	N	N	N	N	N	N	N	N	N	N	10	<.05	31
I1008200	5	N	N	N	N	N	N	20	N	N	N	50	<.05	32
I1008230	<5	N	N	N	N	N	N	N	N	N	N	20	<.05	32
I1008250	5	N	N	N	N	N	N	10	N	N	N	20	<.05	32
I1008270	<5	N	N	N	N	N	N	15	N	N	N	20	<.05	32
I1008300	<5	N	N	N	N	N	N	10	N	N	N	30	<.05	32
I1008320	N	N	N	N	N	N	N	N	N	N	N	15	<.05	32
I1008340	N	N	N	N	N	N	N	N	<20	N	N	20	<.05	32
I1008360	7	N	N	N	N	N	N	20	50	N	N	30	<.05	32
I1008380	5	10	N	N	N	N	N	<10	20	N	N	30	<.05	32
I1008400	N	N	N	N	N	N	N	10	70	N	N	50	<.05	32
I1008420	N	N	N	N	N	N	N	N	N	N	N	50	<.05	32
I1008440	N	N	N	N	N	N	N	N	N	N	N	50	<.05	32
I1008470	<5	N	N	N	N	N	N	10	30	N	N	50	<.05	32
I1008500	<5	N	N	N	N	N	N	<10	70	N	N	10	<.05	41
I1008530	15	N	N	N	N	N	N	30	70	N	N	20	<.05	41
I1008550	N	N	N	N	N	N	N	10	20	N	N	70	<.05	41
I1008570	<5	N	N	N	N	N	N	<10	N	N	N	20	<.05	41
I1008590	<5	N	N	N	N	N	N	15	100	N	N	150	<.05	41
I1008610	<5	N	N	N	N	N	N	10	N	N	N	15	<.05	41
I1008630	5	<10	N	N	N	N	N	20	N	N	N	30	<.05	41
I1008660	10	N	N	N	N	N	N	50	<20	N	N	20	<.05	41
I1008690	15	N	N	N	N	1,500	N	50	N	N	N	70	<.05	41
I1008710	10	N	N	N	N	500	N	50	70	N	N	70	.05	41
I1008730	7	N	N	N	N	5,000	N	15	200	N	N	70	<.05	41

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1011970	37 51 22	88 19 45	.2	5	2	2	N	.5	N	N	N	50
I1011990	37 51 22	88 19 45	.3	2	3	5	N	.7	N	N	N	30
I1012010	37 51 22	88 19 45	.1	3	2	3	N	.3	N	N	N	20
I1012030	37 51 22	88 19 45	.07	2	.7	2	N	.7	N	N	N	70
I1012050	37 51 22	88 19 45	.05	3	1	2	N	.7	N	N	N	50
I1012070	37 51 22	88 19 45	.07	2	.7	1.5	N	.7	N	N	N	70
I1012080	37 51 22	88 19 45	<.05	1	.5	1.5	N	.5	N	N	N	30
I1012110	37 51 22	88 19 45	.1	2	1	1.5	N	.7	N	N	N	70
I1012130	37 51 22	88 19 45	.15	1.5	.7	1	N	.3	N	N	N	50
I1012150	37 51 22	88 19 45	.15	1.5	1.5	2	N	.3	N	N	N	30
I1012170	37 51 22	88 19 45	.2	5	3	3	N	.5	N	N	N	30
I1012190	37 51 22	88 19 45	.5	3	2	5	N	.5	N	N	N	50
I1012210	37 51 22	88 19 45	.15	1.5	.7	1.5	N	.5	N	N	N	100
I1012230	37 51 22	88 19 45	.07	1.5	.7	1.5	N	.5	N	N	N	70
I1012250	37 51 22	88 19 45	.2	2	.7	2	N	.3	N	N	N	100
I1012370	37 51 22	88 19 45	.3	1	1	2	N	.7	N	N	N	50
I1012390	37 51 22	88 19 45	2	2	3	3	N	.5	N	N	N	N
I1012410	37 51 22	88 19 45	1.5	2	1.5	3	N	.5	N	N	N	<10
I1012430	37 51 22	88 19 45	1	1.5	1	2	N	.3	N	N	N	10
I1012450	37 51 22	88 19 45	1	1	.7	2	N	.3	N	N	N	<10
I1012470	37 51 22	88 19 45	.15	.3	.2	2	N	.15	N	N	N	N
I1012490	37 51 22	88 19 45	2	2	1.5	2	N	.5	N	N	N	10
I1012510	37 51 22	88 19 45	.15	.5	.2	2	N	.2	N	N	N	N
I1012530	37 51 22	88 19 45	5	2	5	1.5	N	1	N	N	N	20
I1012550	37 51 22	88 19 45	7	2	5	1.5	N	.7	N	N	N	15
I1012570	37 51 22	88 19 45	10	7	7	1	N	.7	N	N	N	20
I1012590	37 51 22	88 19 45	10	7	7	1.5	N	1	N	N	N	20
I1012610	37 51 22	88 19 45	15	5	7	.7	N	.5	N	N	N	30
I1012630	37 51 22	88 19 45	10	3	7	1	N	.5	N	N	N	20
I1012650	37 51 22	88 19 45	15	2	5	2	N	.3	N	N	N	30
I1012670	37 51 22	88 19 45	15	3	7	2	N	.5	N	N	N	70
I1012690	37 51 22	88 19 45	15	7	7	1.5	<.2	1	N	N	N	30
I1012710	37 51 22	88 19 45	10	5	7	1.5	N	1	N	N	N	15
I1012730	37 51 22	88 19 45	2	1.5	2	1.5	N	.3	N	N	N	30
I1012750	37 51 22	88 19 45	3	3	5	3	N	.5	N	N	N	30
I1012770	37 51 22	88 19 45	5	3	10	1	N	.5	N	N	N	70
I1012790	37 51 22	88 19 45	3	2	7	1.5	N	.2	N	N	N	30
I1012810	37 51 22	88 19 45	3	2	7	1	N	.5	N	N	N	50
I1012830	37 51 22	88 19 45	5	2	10	1.5	N	.3	N	N	N	30
I1012850	37 51 22	88 19 45	7	5	7	1.5	N	.7	N	N	N	70
I1012870	37 51 22	88 19 45	10	10	7	1.5	N	1	N	N	N	200
I1012890	37 51 22	88 19 45	7	2	>10	.5	N	.3	N	N	N	150
I1012910	37 51 22	88 19 45	10	3	>10	.3	N	.2	N	N	N	100
I1012930	37 51 22	88 19 45	5	3	>10	.3	N	.7	N	N	N	100
I1012950	37 51 22	88 19 45	5	5	10	1	N	.7	N	N	N	100
I1012970	37 51 22	88 19 45	5	3	10	2	N	.5	N	N	N	50
I1012985	37 51 22	88 19 45	10	3	10	1.5	N	.5	N	N	N	50
I1013010	37 51 22	88 19 45	7	2	>10	1	N	.3	N	N	N	50
I1013030	37 51 22	88 19 45	7	2	10	.5	N	.3	N	N	N	70
I1013050	37 51 22	88 19 45	5	1.5	5	.3	N	.3	N	N	N	70
I1013070	37 51 22	88 19 45	10	1	5	2	N	.2	N	N	N	100
I1013090	37 51 22	88 19 45	7	2	7	.3	N	.7	N	N	N	50
I1013115	37 51 22	88 19 45	7	3	>10	.7	N	1	N	N	N	50
I1013135	37 51 22	88 19 45	15	2	>10	1	N	.5	N	N	N	100
I1013155	37 51 22	88 19 45	15	1.5	>10	1	N	.3	N	N	N	50
I1013175	37 51 22	88 19 45	10	3	10	1.5	N	.5	<.5	N	N	70
I1013195	37 51 22	88 19 45	7	2	10	.7	N	.3	N	N	N	50
I1013215	37 51 22	88 19 45	7	3	10	1	N	.5	N	N	N	70
I1013235	37 51 22	88 19 45	5	7	10	.7	N	1	<.5	N	N	70
I1013255	37 51 22	88 19 45	10	5	>10	1.5	N	.7	<.5	N	N	100

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1011970	500	2	N	N	30	150	100	70	N	50	50	7	<20
I1011990	300	1	N	N	20	100	50	50	N	N	20	N	<20
I1012010	300	<1	N	N	15	150	200	70	N	N	15	5	N
I1012030	500	1.5	N	N	10	70	100	30	N	<50	10	<5	<20
I1012050	500	1	N	N	10	150	50	30	N	N	15	<5	<20
I1012070	200	1.5	N	N	20	70	50	20	N	N	20	5	<20
I1012080	200	<1	N	N	<10	70	30	20	N	N	<10	<5	N
I1012110	300	1	N	N	10	50	500	30	N	N	15	<5	<20
I1012130	200	1	N	N	<10	70	150	70	N	N	10	<5	N
I1012150	200	<1	N	N	<10	70	50	50	N	N	10	<5	N
I1012170	300	1.5	N	N	10	100	200	50	N	<50	50	5	N
I1012190	300	1.5	N	N	10	150	100	50	N	<50	30	<5	<20
I1012210	300	2	N	N	<10	70	10	30	N	<50	30	<5	N
I1012230	200	2	N	N	15	100	20	50	N	<50	15	<5	N
I1012250	300	1	N	N	<10	70	20	30	N	<50	20	5	N
I1012370	300	<1	N	N	10	150	20	15	N	<50	50	N	20
I1012390	300	N	N	N	20	200	30	20	N	N	200	N	N
I1012410	200	<1	N	N	10	70	30	20	N	<50	100	N	<20
I1012430	150	<1	N	N	<10	50	15	10	N	N	70	N	<20
I1012450	100	N	N	N	<10	30	30	10	N	N	50	7	N
I1012470	50	N	N	N	N	<10	10	<5	N	N	<10	7	N
I1012490	150	N	N	N	20	30	30	5	N	N	50	20	30
I1012510	30	N	N	N	N	<10	10	<5	N	N	<10	20	N
I1012530	700	1	N	N	50	150	50	15	N	50	200	7	50
I1012550	500	<1	N	N	50	200	100	30	N	<50	150	N	20
I1012570	700	<1	N	N	30	200	70	20	N	<50	200	<5	20
I1012590	1,000	1	N	N	50	500	150	30	N	50	300	5	30
I1012610	1,000	1	N	N	30	300	100	20	N	<50	300	7	<20
I1012630	700	<1	N	N	15	150	70	15	N	N	200	<5	<20
I1012650	700	N	N	N	10	100	70	7	N	N	200	5	N
I1012670	1,000	1.5	N	N	10	70	100	10	N	N	500	<5	<20
I1012690	3,000	1.5	N	N	30	50	100	30	N	<50	700	N	30
I1012710	700	N	N	N	30	500	100	15	N	<50	300	5	30
I1012730	500	N	N	N	<10	50	20	5	N	N	70	5	<20
I1012750	500	<1	N	N	15	100	70	20	N	N	150	<5	20
I1012770	300	<1	N	N	20	150	50	20	N	N	100	10	<20
I1012790	200	N	N	N	<10	70	20	20	N	N	70	7	N
I1012810	300	<1	N	N	10	100	30	7	N	N	150	7	<20
I1012830	500	<1	N	N	10	100	20	10	N	N	50	15	<20
I1012850	300	1	N	N	30	200	50	15	N	<50	300	5	30
I1012870	700	2	N	N	50	300	200	50	N	50	700	10	50
I1012890	300	1	N	N	<10	50	15	10	N	N	70	5	N
I1012910	100	1	N	N	10	70	20	15	N	N	150	5	N
I1012930	200	1	N	N	10	100	20	7	N	N	100	7	<20
I1012950	300	1.5	N	N	15	150	50	30	N	<50	150	5	<20
I1012970	200	<1	N	N	10	70	30	15	N	N	70	<5	N
I1012985	200	1	N	N	<10	70	20	10	N	N	100	<5	N
I1013010	150	<1	N	N	<10	30	15	10	N	N	30	<5	N
I1013030	150	N	N	N	N	50	15	10	N	N	50	<5	N
I1013050	200	N	N	N	N	20	15	<5	N	N	50	5	N
I1013070	150	N	N	N	N	20	15	5	N	N	70	N	N
I1013090	300	1	N	N	<10	70	30	5	N	N	200	7	<20
I1013115	500	1	N	N	10	200	70	10	N	N	300	5	20
I1013135	300	<1	N	N	<10	100	70	7	N	N	200	10	N
I1013155	300	N	N	N	N	30	50	5	N	N	150	7	N
I1013175	500	<1	N	N	<10	70	70	7	N	N	150	15	N
I1013195	200	<1	N	N	N	50	20	7	N	N	100	50	N
I1013215	300	1	N	N	<10	100	30	10	N	N	150	50	<20
I1013235	500	1.5	N	N	30	200	150	10	N	N	300	20	30
I1013255	500	<1	N	N	20	150	100	20	N	N	500	7	20

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1011970	70	15	N	10	N	150	N	150	50	10	N	100	<.05	4
I1011990	50	<10	N	10	N	150	N	100	20	<10	N	70	<.05	4
I1012010	30	30	N	7	N	<100	N	70	50	<10	N	50	<.05	4
I1012030	50	<10	N	10	N	<100	N	150	<20	<10	N	200	<.05	4
I1012050	50	<10	N	10	N	100	N	150	N	<10	N	100	<.05	4
I1012070	30	10	N	7	N	<100	N	100	30	<10	N	200	<.05	4
I1012080	10	<10	N	5	N	<100	N	70	N	<10	N	150	<.05	4
I1012110	30	15	N	10	N	100	N	150	<20	<10	N	200	<.05	4
I1012130	20	30	N	7	N	<100	N	100	N	N	N	70	<.05	5
I1012150	15	20	N	5	N	<100	N	70	<20	N	N	70	<.05	5
I1012170	30	10	N	7	N	100	N	100	N	<10	N	100	<.05	5
I1012190	30	10	N	15	N	150	N	100	N	10	N	100	<.05	5
I1012210	20	150	N	10	N	<100	N	100	N	<10	N	100	<.05	5
I1012230	20	10	N	10	N	<100	N	100	N	<10	N	70	<.05	5
I1012250	20	50	N	7	N	<100	N	150	<20	<10	N	150	<.05	5
I1012370	30	15	N	<5	N	<100	N	100	<20	<10	N	150	<.05	5
I1012390	50	N	N	5	N	N	N	50	30	N	N	70	<.05	5
I1012410	30	N	N	7	N	N	N	70	100	<10	N	200	<.05	5
I1012430	20	<10	N	5	N	N	N	70	<20	N	N	150	<.05	5
I1012450	15	N	N	<5	N	N	N	50	50	N	N	150	<.05	5
I1012470	<5	N	N	N	N	N	N	30	<20	N	N	70	<.05	5
I1012490	70	N	N	5	N	N	N	100	N	N	N	200	<.05	5
I1012510	<5	N	N	N	N	N	N	50	20	N	N	100	<.05	5
I1012530	150	N	N	10	N	<100	N	70	N	<10	N	150	<.05	5
I1012550	150	N	N	7	N	<100	N	50	N	N	N	100	<.05	5
I1012570	100	300	N	10	N	100	N	100	N	<10	N	150	<.05	5
I1012590	150	10	N	15	N	150	N	150	N	10	N	150	<.05	5
I1012610	100	10	N	10	N	150	N	100	N	<10	N	70	<.05	5
I1012630	50	15	N	7	N	100	N	150	N	N	N	70	.07	5
I1012650	50	150	N	5	N	100	N	100	N	N	N	100	.07	6
I1012670	50	1,500	N	7	N	200	N	150	N	<10	N	150	<.05	6
I1012690	70	70	N	20	N	150	N	200	N	10	N	200	<.05	6
I1012710	100	50	N	10	N	<100	N	100	N	<10	N	200	<.05	6
I1012730	15	20	N	<5	N	<100	N	70	N	N	N	150	<.05	6
I1012750	50	100	N	7	N	<100	N	100	20	<10	N	150	<.05	6
I1012770	70	70	N	7	N	<100	N	100	<20	N	N	70	.1	6
I1012790	30	150	N	<5	N	<100	N	50	N	N	N	50	.17	6
I1012810	30	20	N	<5	N	<100	N	70	N	N	N	100	.21	6
I1012830	50	15	N	5	N	300	N	100	N	N	N	200	.16	6
I1012850	100	150	N	10	N	100	N	70	N	<10	N	200	<.05	6
I1012870	100	1,000	N	10	N	1,000	N	150	20	10	N	200	.08	6
I1012890	15	500	N	5	N	2,000	N	50	N	<10	<200	100	.23	6
I1012910	20	1,000	N	<5	N	700	N	30	N	N	N	70	.27	7
I1012930	50	500	N	5	N	1,000	N	70	<20	N	200	200	.27	7
I1012950	70	2,000	N	7	N	2,000	N	100	N	10	<200	150	.21	7
I1012970	100	200	N	<5	N	1,000	N	100	<20	N	N	70	.21	7
I1012985	70	500	N	<5	N	5,000	N	100	<20	N	N	150	.21	7
I1013010	50	300	N	N	N	5,000	N	50	N	N	N	150	.25	7
I1013030	30	30	N	N	N	>5,000	N	70	N	N	N	70	.35	7
I1013050	50	20	N	N	N	>5,000	N	70	<20	N	N	70	.11	7
I1013070	30	700	N	N	N	200	N	300	N	N	N	30	.08	7
I1013090	70	200	N	<5	N	700	N	200	N	N	<200	150	.07	7
I1013115	70	500	N	7	N	100	N	150	N	<10	N	200	.1	7
I1013135	50	300	N	5	N	500	N	150	N	N	N	150	.1	7
I1013155	15	700	N	<5	N	200	N	300	N	N	N	70	.16	7
I1013175	50	1,000	N	5	N	1,500	N	300	N	N	N	70	.14	7
I1013195	30	70	N	<5	N	200	N	200	N	N	N	50	.1	7
I1013215	70	300	N	<5	N	1,500	N	300	N	N	<200	100	.16	7
I1013235	100	500	N	7	N	300	N	200	N	N	N	150	.21	7
I1013255	70	300	N	7	N	150	N	200	N	N	N	100	.19	7

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1013275	37 51 22	88 19 45	10	5	>10	1	N	.5	N	N	N	100
I1013295	37 51 22	88 19 45	10	10	>10	1.5	N	.5	N	N	N	150
I1013315	37 51 22	88 19 45	10	5	10	2	N	.3	N	N	N	100
I1013335	37 51 22	88 19 45	10	5	>10	2	N	.3	N	N	N	50
I1013355	37 51 22	88 19 45	7	7	>10	1	N	.7	N	N	N	70
I1013375	37 51 22	88 19 45	7	5	10	1	N	.5	N	N	N	70
I1013395	37 51 22	88 19 45	7	7	>10	1	N	.5	N	N	N	100
I1013415	37 51 22	88 19 45	5	7	>10	1.5	N	.7	N	N	N	100
I1013435	37 51 22	88 19 45	7	5	>10	.7	N	>1	<.5	N	N	70
I1013455	37 51 22	88 19 45	5	5	10	.5	N	>1	.5	N	N	20
I1013475	37 51 22	88 19 45	5	10	10	1.5	<.2	>1	1	N	N	30
I1013495	37 51 22	88 19 45	7	15	7	.7	N	>1	<.5	N	N	50
I1013515	37 51 22	88 19 45	10	10	7	3	<.2	>1	N	N	N	15
I1013535	37 51 22	88 19 45	10	10	10	1	N	>1	N	N	N	30
I1013555	37 51 22	88 19 45	7	10	>10	.7	N	>1	N	N	N	20
I1013575	37 51 22	88 19 45	5	5	10	.5	N	>1	N	N	N	15
I1013595	37 51 22	88 19 45	3	7	10	.5	N	>1	N	N	N	50
I1013615	37 51 22	88 19 45	5	7	>10	1.5	N	>1	N	N	N	30
I1013635	37 51 22	88 19 45	10	10	10	.3	N	>1	N	N	N	30
I1013655	37 51 22	88 19 45	7	7	10	.5	N	>1	N	N	N	30
I1013675	37 51 22	88 19 45	2	10	3	.7	N	>1	N	N	N	<10
I1013695	37 51 22	88 19 45	2	5	5	1.5	N	1	<.5	N	N	20
I1013715	37 51 22	88 19 45	3	7	5	2	N	1	<.5	N	N	30
I1013735	37 51 22	88 19 45	1.5	5	5	2	N	.7	N	N	N	15
I1013755	37 51 22	88 19 45	2	10	3	1.5	N	1	N	N	N	15
I1013775	37 51 22	88 19 45	5	5	5	1.5	N	.7	N	N	N	30
I1013795	37 51 22	88 19 45	5	3	3	1.5	N	.5	N	N	N	15
I1013815	37 51 22	88 19 45	10	5	3	2	N	1	<.5	N	N	20
I1013835	37 51 22	88 19 45	3	7	3	3	N	.7	<.5	N	N	10
I1013855	37 51 22	88 19 45	5	5	3	3	N	.5	N	N	N	20
I1013875	37 51 22	88 19 45	3	5	2	2	N	.5	N	N	N	30
I1013895	37 51 22	88 19 45	3	3	2	1.5	N	.7	<.5	N	N	15
I1013915	37 51 22	88 19 45	5	3	3	1	N	.5	N	N	N	10
I1013935	37 51 22	88 19 45	20	2	2	3	N	.3	N	N	N	<10
I1013955	37 51 22	88 19 45	15	2	2	3	N	.2	N	N	N	N
I1013975	37 51 22	88 19 45	7	5	3	1.5	N	.7	<.5	N	N	15
I1013995	37 51 22	88 19 45	2	3	3	1.5	N	.5	<.5	N	N	15
I1014015	37 51 22	88 19 45	3	2	3	1.5	N	.2	<.5	N	N	10
I1014035	37 51 22	88 19 45	5	3	3	3	N	.3	<.5	N	N	15
I1014055	37 51 22	88 19 45	5	2	5	2	N	.3	N	N	N	15
I1014075	37 51 22	88 19 45	3	1.5	10	1.5	N	.3	N	N	N	15
I1014095	37 51 22	88 19 45	7	1.5	7	1.5	N	.15	N	N	N	10
I1014115	37 51 22	88 19 45	10	3	7	1	N	.3	N	N	N	20
I1014135	37 51 22	88 19 45	2	5	7	1.5	N	.5	N	N	N	15
I1014155	37 51 22	88 19 45	1.5	7	7	2	N	.7	<.5	N	N	<10
I1014175	37 51 22	88 19 45	7	10	7	1	N	.5	<.5	N	N	20
I1014195	37 51 22	88 19 45	10	10	10	1.5	N	.7	<.5	N	N	15
I1014215	37 51 22	88 19 45	5	5	7	1.5	N	.5	N	N	N	10
I1014235	37 51 22	88 19 45	2	1	2	1	N	.1	N	N	N	N
I1014255	37 51 22	88 19 45	2	1	2	.7	N	.15	N	N	N	N
I1014275	37 51 22	88 19 45	2	.7	2	.7	N	.15	N	N	N	N
I1014295	37 51 22	88 19 45	3	1.5	3	1	N	.2	N	N	N	N
I1014315	37 51 22	88 19 45	1	1	2	1	N	.15	N	N	N	N
I1014335	37 51 22	88 19 45	.5	.7	1.5	.5	N	.07	<.5	N	N	N
I1014355	37 51 22	88 19 45	.3	.7	2	.3	N	.07	N	N	N	N
I1014375	37 51 22	88 19 45	1.5	.5	2	.3	N	.05	<.5	N	N	N
I1014395	37 51 22	88 19 45	.3	1	3	.3	N	.07	N	N	N	N
I1014415	37 51 22	88 19 45	<.05	1	3	.2	N	.1	<.5	N	N	10
I1014435	37 51 22	88 19 45	.15	1	2	.3	N	.1	.5	N	N	<10
I1014455	37 51 22	88 19 45	.07	.7	1	.3	N	.07	<.5	N	N	10

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1013275	300	1.5	N	N	10	100	50	30	N	N	200	<5	N
I1013295	700	1.5	N	N	20	200	70	50	N	N	300	10	<20
I1013315	300	<1	N	N	10	150	30	20	N	N	200	15	N
I1013335	300	<1	N	N	<10	150	20	30	N	N	200	20	N
I1013355	500	1	N	N	10	200	50	30	N	N	200	30	N
I1013375	200	<1	N	N	15	100	30	20	N	N	150	30	N
I1013395	200	<1	N	N	15	150	70	20	N	N	200	30	N
I1013415	300	<1	N	N	15	200	50	20	N	N	200	15	<20
I1013435	1,000	2	N	N	50	1,000	150	30	N	50	500	15	70
I1013455	2,000	3	N	N	100	1,000	150	50	N	70	700	10	70
I1013475	1,500	1.5	N	N	70	700	150	70	N	100	1,000	7	20
I1013495	1,500	1.5	N	N	100	1,000	200	50	N	100	700	10	100
I1013515	700	5	N	N	70	700	200	70	N	50	1,000	<5	50
I1013535	1,000	1.5	N	N	70	500	150	30	N	150	500	<5	70
I1013555	700	<1	N	N	150	500	150	20	N	200	500	N	150
I1013575	500	<1	N	N	100	700	200	50	N	150	300	N	70
I1013595	500	1	N	N	70	500	150	50	N	100	300	<5	100
I1013615	300	<1	N	N	100	700	100	50	N	70	500	N	70
I1013635	1,000	<1	N	N	100	1,000	150	30	N	100	500	N	100
I1013655	1,000	2	N	N	100	700	200	50	N	100	700	5	70
I1013675	700	N	N	N	70	500	70	50	N	50	200	<5	30
I1013695	700	<1	N	N	70	300	100	15	N	<50	500	5	50
I1013715	500	<1	N	N	50	300	100	20	N	<50	300	7	30
I1013735	300	N	N	N	30	300	70	30	N	N	200	5	30
I1013755	300	N	N	N	50	300	100	30	N	50	200	5	50
I1013775	300	<1	N	N	20	200	50	20	N	N	150	5	<20
I1013795	200	N	N	N	15	100	20	10	N	N	100	<5	20
I1013815	300	<1	N	N	20	200	50	15	N	N	150	<5	50
I1013835	300	N	N	N	30	500	70	30	N	N	70	<5	20
I1013855	300	<1	N	N	20	200	50	20	N	N	100	<5	<20
I1013875	200	N	N	N	15	100	30	10	N	N	50	N	<20
I1013895	200	N	N	N	10	70	200	5	N	N	50	N	20
I1013915	500	N	N	N	10	70	70	5	N	N	100	<5	20
I1013935	500	N	N	N	<10	30	20	<5	N	N	200	7	<20
I1013955	300	N	N	N	<10	30	50	5	N	N	100	N	N
I1013975	500	N	N	N	15	70	70	7	N	<50	150	7	30
I1013995	300	N	N	N	15	70	50	10	N	N	100	7	<20
I1014015	150	N	N	N	<10	70	20	10	N	N	70	<5	N
I1014035	200	N	N	N	10	100	30	15	N	N	70	5	N
I1014055	200	N	N	N	10	50	30	5	N	N	100	<5	<20
I1014075	300	N	N	N	10	70	30	5	N	N	70	5	<20
I1014095	700	N	N	N	<10	20	10	<5	N	N	50	7	N
I1014115	1,000	N	N	N	15	70	20	5	N	N	100	5	<20
I1014135	700	<1	N	N	30	200	100	30	N	<50	150	<5	30
I1014155	1,000	<1	N	N	50	500	150	50	N	<50	300	N	50
I1014175	500	<1	N	N	50	500	70	30	N	50	500	N	20
I1014195	500	N	N	N	50	500	70	30	N	50	500	<5	50
I1014215	300	N	N	N	20	200	50	20	N	N	200	5	20
I1014235	30	N	N	N	N	<10	7	N	N	N	20	N	N
I1014255	100	N	N	N	N	<10	5	N	N	N	10	N	N
I1014275	50	N	N	N	N	<10	5	N	N	N	15	N	N
I1014295	100	N	N	N	<10	20	15	<5	N	N	50	N	<20
I1014315	50	N	N	N	N	<10	30	N	N	N	10	N	N
I1014335	30	N	N	N	N	N	5	N	N	N	<10	N	N
I1014355	30	N	N	N	N	N	<5	N	N	N	<10	<5	N
I1014375	70	N	N	N	N	N	7	N	N	N	<10	5	N
I1014395	200	N	N	N	N	N	50	N	N	N	<10	N	N
I1014415	70	N	N	N	N	N	5	N	N	N	<10	N	N
I1014435	50	N	N	N	N	<10	5	N	N	N	<10	N	N
I1014455	50	N	N	N	N	N	7	N	N	N	N	N	N

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1013275	70	1,000	N	10	N	500	N	150	N	N	N	100	.16	7
I1013295	100	700	N	10	N	1,500	N	300	N	<10	N	100	.37	7
I1013315	50	5,000	N	7	N	150	N	200	N	N	N	50	.27	7
I1013335	50	200	N	5	N	1,000	N	100	N	N	N	30	.18	7
I1013355	100	70	N	7	N	5,000	N	200	N	N	200	100	.25	7
I1013375	150	<10	N	7	N	200	N	150	N	N	<200	70	.17	7
I1013395	150	30	N	5	N	150	N	200	N	N	N	100	.29	7
I1013415	150	10	N	5	N	100	N	150	N	N	N	150	.35	7
I1013435	200	100	N	15	N	100	N	150	N	<10	N	200	.2	7
I1013455	150	30	N	15	N	<100	N	200	N	<10	N	200	.12	7
I1013475	150	15	N	15	N	500	N	150	N	10	N	100	.12	7
I1013495	200	150	N	20	N	150	N	500	N	10	N	300	.12	7
I1013515	150	100	N	7	N	300	N	100	N	<10	N	200	.13	7
I1013535	300	700	N	10	N	700	N	70	N	10	N	150	.09	7
I1013555	700	700	N	10	N	200	N	30	N	15	N	150	.05	7
I1013575	500	500	N	10	N	150	N	30	N	10	N	150	.06	7
I1013595	500	150	N	15	N	150	N	50	N	15	N	200	.05	7
I1013615	700	2,000	N	7	N	100	N	20	N	<10	N	100	<.05	7
I1013635	500	20	N	10	N	150	N	100	N	10	N	150	<.05	7
I1013655	300	30	N	15	N	100	N	70	N	15	<200	150	.05	7
I1013675	150	15	N	10	N	N	N	150	N	<10	N	70	.12	7
I1013695	150	20	N	7	N	N	N	150	N	<10	N	100	.24	7
I1013715	150	50	N	7	N	<100	N	100	N	<10	N	100	.25	7
I1013735	150	150	N	5	N	N	N	100	N	N	N	70	.2	7
I1013755	150	500	N	7	N	N	N	70	N	<10	N	100	.09	7
I1013775	100	200	N	5	N	<100	N	100	<20	N	N	70	.14	7
I1013795	70	15	N	<5	N	<100	N	70	20	N	N	50	.12	7
I1013815	100	1,000	N	5	N	<100	N	100	50	N	N	100	.14	7
I1013835	100	150	N	5	N	N	N	100	N	N	N	30	.19	7
I1013855	100	1,000	N	5	N	100	N	100	N	N	N	50	.14	7
I1013875	70	2,000	N	<5	N	<100	N	70	<20	N	N	30	.16	7
I1013895	70	1,500	N	<5	N	N	N	50	<20	N	N	50	.08	7
I1013915	50	300	N	10	N	N	N	100	N	N	N	150	.06	7
I1013935	20	1,000	N	7	N	150	N	200	N	<10	N	100	.06	7
I1013955	15	200	N	5	N	<100	N	100	N	N	N	70	.05	7
I1013975	70	1,500	N	7	N	<100	N	200	30	N	N	200	.14	7
I1013995	50	1,000	N	5	N	N	N	150	20	N	N	100	.18	7
I1014015	20	1,000	N	<5	N	N	N	100	N	N	N	30	.14	7
I1014035	30	700	N	<5	N	<100	N	150	N	N	N	50	.14	7
I1014055	20	700	N	<5	N	<100	N	200	N	N	N	70	.11	7
I1014075	30	150	N	<5	N	N	N	150	N	N	N	50	.12	7
I1014095	20	100	N	N	N	N	N	200	N	N	N	20	.12	7
I1014115	50	500	N	<5	N	<100	N	200	50	N	N	70	.18	7
I1014135	100	500	N	5	N	N	N	50	70	N	<200	70	.14	7
I1014155	150	1,500	N	7	N	N	N	100	N	N	N	70	.16	7
I1014175	150	1,000	N	10	N	1,500	N	30	N	<10	N	70	.12	7
I1014195	150	200	N	10	N	1,000	N	70	<20	10	N	150	.12	7
I1014215	70	2,000	N	5	N	<100	N	70	N	N	<200	50	.1	7
I1014235	10	100	N	N	N	N	N	15	N	N	N	10	<.05	7
I1014255	10	15	N	N	N	N	N	15	N	N	N	15	<.05	7
I1014275	10	10	N	N	N	N	N	20	N	N	N	20	.05	7
I1014295	20	30	N	<5	N	<100	N	30	N	N	N	30	.05	7
I1014315	15	N	N	N	N	N	N	30	N	N	N	20	.09	7
I1014335	10	N	N	N	N	N	N	10	N	N	N	10	.07	7
I1014355	10	N	N	N	N	N	N	15	N	N	N	30	.05	7
I1014375	7	20	N	N	N	N	N	10	N	N	N	10	.05	7
I1014395	10	N	N	N	N	N	N	15	N	N	N	15	<.05	7
I1014415	10	N	N	N	N	N	N	15	N	N	N	30	<.05	7
I1014435	15	N	N	N	N	N	N	15	<20	N	N	20	<.05	7
I1014455	10	N	N	N	N	N	N	10	N	N	N	15	<.05	7

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1014475	37 51 22	88 19 45	.15	1	1.5	.7	N	.2	<.5	N	N	50
I1014495	37 51 22	88 19 45	.05	1.5	1	.7	N	.3	<.5	N	N	70
I1014515	37 51 22	88 19 45	<.05	2	1	1	N	.3	N	N	N	70
I1014535	37 51 22	88 19 45	.15	3	2	1.5	N	.7	<.5	N	N	100
I1014555	37 51 22	88 19 45	.05	3	1.5	1.5	N	.7	N	N	N	150
I1014575	37 51 22	88 19 45	.2	5	1.5	1.5	N	.5	1.5	N	N	100
I1014595	37 51 22	88 19 45	.05	5	2	2	N	.7	N	N	N	200
I1014615	37 51 22	88 19 45	<.05	5	2	1.5	N	.7	N	N	N	150
I1014635	37 51 22	88 19 45	.05	5	1	1	N	.3	N	N	N	100
I1014655	37 51 22	88 19 45	<.05	5	1	1	N	.5	N	N	N	100
I1014675	37 51 22	88 19 45	.05	5	1.5	1	N	.7	N	N	N	150
I1014695	37 51 22	88 19 45	.1	5	1.5	1	N	.7	N	N	N	100
I1014715	37 51 22	88 19 45	.2	7	3	1.5	N	.7	N	N	N	70
I1014735	37 51 22	88 19 45	.3	5	2	1.5	N	.7	N	N	N	100
I1014755	37 51 22	88 19 45	.3	5	2	1.5	N	.5	N	N	N	70
I1014775	37 51 22	88 19 45	2	10	3	5	N	1	N	N	N	100
I1014795	37 51 22	88 19 45	1.5	7	5	5	N	1	N	N	N	70
I1014815	37 51 22	88 19 45	5	10	7	3	N	>1	N	N	N	150
I1014835	37 51 22	88 19 45	2	7	10	1.5	N	>1	N	N	N	50
I1014855	37 51 22	88 19 45	3	10	10	1	N	>1	N	N	N	30
I1014875	37 51 22	88 19 45	2	10	10	2	N	>1	N	N	N	200
I1014895	37 51 22	88 19 45	1	5	7	2	N	.7	N	N	N	100
I1014915	37 51 22	88 19 45	1	7	5	1.5	N	1	N	N	N	70
I1014935	37 51 22	88 19 45	.3	7	3	1.5	N	1	N	N	N	150
I1014955	37 51 22	88 19 45	.2	5	3	1.5	N	.7	.5	N	N	150
I1014975	37 51 22	88 19 45	.5	5	2	1	N	.7	.7	N	N	100
I1014995	37 51 22	88 19 45	1.5	5	5	1.5	N	1	.5	N	N	100
I1015015	37 51 22	88 19 45	1	5	3	1.5	N	1	<.5	N	N	150
I1015035	37 51 22	88 19 45	1	3	2	1	N	1	N	N	N	100
I1015055	37 51 22	88 19 45	2	5	3	1.5	N	.7	N	N	N	100
I1015075	37 51 22	88 19 45	1.5	7	5	1.5	N	>1	N	N	N	100
I1015095	37 51 22	88 19 45	2	7	3	1	N	.7	N	N	N	100
I1015115	37 51 22	88 19 45	1	5	3	1	N	1	N	N	N	200
I1015135	37 51 22	88 19 45	1.5	5	5	1	N	1	N	N	N	70
I1015155	37 51 22	88 19 45	1.5	3	1.5	.3	N	.7	N	N	N	70
I1015175	37 51 22	88 19 45	1	3	2	.5	N	.5	N	N	N	50
I1015195	37 51 22	88 19 45	1.5	7	3	1	N	1	N	N	N	100
I1015215	37 51 22	88 19 45	3	7	2	1	N	.7	N	N	N	100
I1015235	37 51 22	88 19 45	1	5	2	.5	N	.5	N	N	N	70
I1015255	37 51 22	88 19 45	3	5	3	1	N	.5	N	N	N	100
I1015275	37 51 22	88 19 45	1.5	5	5	.5	N	.5	N	N	N	100
I1015295	37 51 22	88 19 45	1	5	5	1	N	.3	N	N	N	100
I1015320	37 51 22	88 19 45	.7	3	5	.7	N	.15	N	N	N	30

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1014475	300	N	N	N	N	<10	20	<5	N	N	15	N	N
I1014495	300	N	N	N	N	10	20	<5	N	N	15	N	N
I1014515	300	1	N	N	<10	15	20	5	N	N	30	N	N
I1014535	700	1.5	N	N	15	50	70	30	N	<50	100	<5	<20
I1014555	500	2	N	N	10	50	30	30	N	<50	70	N	N
I1014575	500	2	N	N	50	100	200	30	N	<50	100	70	<20
I1014595	700	5	N	N	20	150	100	70	N	50	200	15	<20
I1014615	500	3	N	N	20	100	100	50	N	<50	200	20	N
I1014635	300	2	N	N	20	50	200	30	N	<50	150	100	N
I1014655	500	2	N	N	20	70	200	30	N	<50	100	100	N
I1014675	500	2	N	N	20	70	200	50	N	50	150	100	<20
I1014695	500	2	N	N	20	70	150	30	N	50	200	70	N
I1014715	300	1.5	N	N	30	150	200	50	N	<50	150	70	<20
I1014735	300	3	N	N	30	100	200	50	N	<50	300	70	<20
I1014755	300	2	N	N	20	100	200	30	N	<50	200	50	N
I1014775	700	3	N	N	20	300	150	70	N	50	300	15	N
I1014795	1,000	2	N	N	20	300	200	50	N	50	500	30	20
I1014815	1,500	2	N	N	70	700	200	70	N	70	700	20	50
I1014835	1,000	1	N	N	100	1,000	200	30	N	70	700	10	70
I1014855	1,500	<1	N	N	150	2,000	70	50	N	100	700	7	50
I1014875	1,000	1.5	N	N	70	1,000	150	70	N	70	1,000	20	50
I1014895	700	2	N	N	30	300	150	50	N	50	500	30	<20
I1014915	500	1.5	N	N	30	300	200	30	N	50	300	30	20
I1014935	500	2	N	N	30	200	200	50	N	50	150	15	<20
I1014955	300	2	N	N	20	70	300	50	N	N	70	20	<20
I1014975	300	2	N	N	15	100	300	30	N	<50	70	30	<20
I1014995	300	1.5	N	N	20	200	500	50	N	<50	200	20	20
I1015015	300	1.5	N	N	15	200	300	30	N	<50	300	20	<20
I1015035	500	1.5	N	N	20	150	150	15	N	<50	200	15	20
I1015055	500	1.5	N	N	50	200	300	30	N	50	500	20	20
I1015075	300	1	N	N	50	100	200	30	N	50	300	20	30
I1015095	300	1.5	N	N	20	300	150	10	N	N	500	20	<20
I1015115	500	1	N	N	30	200	100	15	N	50	300	10	20
I1015135	700	1	N	N	20	200	150	15	N	<50	500	10	20
I1015155	500	N	N	N	15	70	70	5	N	N	500	5	20
I1015175	300	N	N	N	10	100	50	7	N	N	300	7	<20
I1015195	700	<1	N	N	20	150	150	15	N	<50	300	10	20
I1015215	1,000	1	N	N	15	100	100	10	N	<50	500	5	<20
I1015235	300	<1	N	N	10	70	70	7	N	N	200	7	<20
I1015255	500	1	N	N	15	70	70	15	N	<50	300	20	N
I1015275	300	<1	N	N	15	100	50	5	N	<50	300	10	20
I1015295	300	<1	N	N	20	150	50	10	N	<50	300	7	20
I1015320	150	N	N	N	10	70	20	<5	N	N	100	7	N

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I101, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1014475	15	100	N	N	N	N	N	50	N	N	N	70	<.05	7
I1014495	15	N	N	N	N	N	N	50	N	N	200	150	<.05	7
I1014515	30	N	N	<5	N	N	N	70	N	N	N	70	<.05	8
I1014535	100	20	N	7	N	<100	N	200	N	<10	N	150	<.05	8
I1014555	70	N	N	7	N	N	N	150	<20	<10	N	150	<.05	8
I1014575	200	30	N	5	N	N	N	1,000	N	<10	500	100	<.05	8
I1014595	100	15	N	10	N	N	N	500	N	10	N	150	<.05	8
I1014615	150	20	N	10	N	N	N	500	20	<10	N	100	<.05	8
I1014635	100	70	N	5	N	N	N	500	N	<10	N	70	.05	8
I1014655	150	15	N	5	N	N	N	200	N	<10	N	100	<.05	8
I1014675	150	20	N	7	N	N	N	200	N	10	N	100	<.05	8
I1014695	150	100	N	7	N	N	N	300	N	10	N	100	.05	8
I1014715	150	30	N	7	N	N	N	200	N	<10	N	70	<.05	8
I1014735	150	20	N	7	N	N	N	200	N	<10	N	100	<.05	8
I1014755	100	20	N	7	N	N	N	150	N	<10	<200	100	<.05	8
I1014775	100	30	N	15	N	<100	N	200	N	15	N	200	<.05	8
I1014795	100	30	N	15	N	100	N	150	N	15	N	200	<.05	8
I1014815	200	50	N	20	N	100	N	150	N	15	N	200	<.05	8
I1014835	300	10	N	7	N	<100	N	100	N	<10	N	100	<.05	8
I1014855	500	<10	N	10	N	<100	N	70	N	10	N	70	<.05	8
I1014875	200	10	N	10	N	100	N	200	N	10	N	150	<.05	8
I1014895	150	20	N	10	N	<100	N	200	N	10	N	100	<.05	8
I1014915	150	500	N	7	N	N	N	200	N	<10	N	100	<.05	8
I1014935	100	30	N	10	N	N	N	200	20	10	N	100	<.05	8
I1014955	150	30	N	5	N	N	N	200	N	<10	N	70	.05	8
I1014975	150	50	N	5	N	N	N	500	N	<10	N	70	.08	8
I1014995	200	1,000	N	7	N	N	N	300	N	<10	<200	50	.07	8
I1015015	150	15	N	5	N	N	N	200	N	<10	N	70	.07	10
I1015035	150	<10	N	5	N	N	N	150	N	<10	300	70	<.05	10
I1015055	150	50	N	10	N	<100	N	200	30	10	200	150	.06	10
I1015075	200	10	N	7	N	<100	N	200	N	10	N	100	.05	10
I1015095	100	10	N	5	N	N	N	200	N	<10	<200	70	.05	10
I1015115	150	<10	N	5	N	N	N	150	20	<10	N	70	<.05	10
I1015135	150	N	N	5	N	<100	N	200	N	<10	N	50	.05	10
I1015155	100	N	N	<5	N	N	N	100	500	N	N	150	.05	10
I1015175	70	N	N	<5	N	N	N	100	N	N	200	30	<.05	10
I1015195	100	<10	N	5	N	<100	N	200	N	<10	N	100	<.05	10
I1015215	70	10	N	<5	N	N	N	300	N	<10	N	70	.05	10
I1015235	70	N	N	<5	N	N	N	200	N	N	N	70	<.05	10
I1015255	70	10	N	5	N	<100	N	150	N	<10	N	50	<.05	10
I1015275	70	<10	N	5	N	N	N	150	N	<10	N	70	<.05	10
I1015295	70	10	N	5	N	N	N	150	N	<10	N	50	<.05	10
I1015320	30	<10	N	<5	N	N	N	100	N	N	N	30	.06	10

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct.	s	Fe-pct.	s	Mg-pct.	s	Na-pct.	s	P-pct.	s	Ti-pct.	s	Ag-ppm	s	As-ppm	s	Au-ppm	s	B-ppm	s
I1021560	37 50 24	88 3 51	N		3		.5		.2		N		.3		N		N		N		70	
I1021580	37 50 24	88 3 51	.05		7		.7		.2		N		.5		N		N		N		100	
I1021600	37 50 24	88 3 51	.05		5		.7		.3		N		.7		N		N		N		100	
I1021620	37 50 24	88 3 51	<.05		3		.7		.3		N		.5		N		N		N		70	
I1021640	37 50 24	88 3 51	N		5		.7		.3		N		.5		N		N		N		70	
I1021660	37 50 24	88 3 51	<.05		3		.5		.5		N		.5		N		N		N		50	
I1021680	37 50 24	88 3 51	.05		5		.5		.3		N		.7		N		N		N		100	
I1021710	37 50 24	88 3 51	<.05		3		.5		.5		N		.7		N		N		N		70	
I1021730	37 50 24	88 3 51	<.05		3		.3		.5		N		.3		N		N		N		50	
I1021750	37 50 24	88 3 51	N		5		.5		.5		N		.5		N		N		N		70	
I1021770	37 50 24	88 3 51	N		2		.2		.2		N		.3		N		N		N		50	
I1021790	37 50 24	88 3 51	<.05		3		.5		.5		N		.5		N		N		N		70	
I1021810	37 50 24	88 3 51	N		2		.2		.3		N		.3		N		N		N		50	
I1021830	37 50 24	88 3 51	<.05		3		.5		.5		N		.5		N		N		N		100	
I1021850	37 50 24	88 3 51	.05		3		.5		.7		N		.7		N		N		N		70	
I1021870	37 50 24	88 3 51	.05		3		.5		.7		N		.5		N		N		N		70	
I1021890	37 50 24	88 3 51	N		2		.3		.7		N		.3		N		N		N		50	
I1021910	37 50 24	88 3 51	.1		5		1		.7		N		.7		N		N		N		150	
I1021930	37 50 24	88 3 51	.1		3		.7		.5		N		.5		N		N		N		70	
I1021950	37 50 24	88 3 51	.15		5		1		.7		N		.7		N		N		N		100	
I1021970	37 50 24	88 3 51	.15		5		1		.7		N		.5		N		N		N		150	
I1021990	37 50 24	88 3 51	.1		5		1		.7		N		.5		N		N		N		100	
I1022020	37 50 24	88 3 51	.05		7		.5		.5		N		.5		N		N		N		100	
I1022040	37 50 24	88 3 51	.05		5		.7		.5		N		.5		N		N		N		70	
I1022060	37 50 24	88 3 51	.07		7		.7		.3		N		1		N		N		N		100	
I1022080	37 50 24	88 3 51	<.05		3		.5		.5		N		.7		N		N		N		100	
I1022100	37 50 24	88 3 51	N		3		.5		.5		N		.5		N		N		N		100	
I1022120	37 50 24	88 3 51	N		5		.5		.5		N		.7		N		N		N		150	
I1022160	37 50 24	88 3 51	.07		5		.5		.5		N		.5		N		N		N		100	
I1022180	37 50 24	88 3 51	.1		5		.7		.5		N		.5		N		N		N		100	
I1022200	37 50 24	88 3 51	.05		5		.7		.5		N		.7		N		N		N		150	
I1022220	37 50 24	88 3 51	N		3		.7		.3		N		.5		N		N		N		100	
I1022240	37 50 24	88 3 51	.05		3		1		.5		N		.7		N		N		N		100	
I1022260	37 50 24	88 3 51	.07		3		.7		.5		N		.3		N		N		N		70	
I1022280	37 50 24	88 3 51	.07		5		1		.5		N		.7		N		N		N		100	
I1022300	37 50 24	88 3 51	.07		3		.7		.3		N		.5		N		N		N		70	
I1022580	37 50 24	88 3 51	.05		5		.5		.7		N		.5		N		N		N		100	
I1022600	37 50 24	88 3 51	.07		5		.7		.5		N		.5		N		N		N		100	
I1022620	37 50 24	88 3 51	.07		5		1		.5		N		1		N		N		N		150	
I1022640	37 50 24	88 3 51	.07		5		1		.5		N		.5		N		N		N		70	
I1022660	37 50 24	88 3 51	.07		3		1		.5		N		.5		N		N		N		150	
I1022680	37 50 24	88 3 51	.05		5		1		.5		N		.5		N		N		N		100	
I1022700	37 50 24	88 3 51	.07		5		1		.5		N		.5		N		N		N		150	
I1022725	37 50 24	88 3 51	.15		7		.7		.3		N		.5		N		N		N		150	
I1022745	37 50 24	88 3 51	.07		5		1		.3		N		.5		N		N		N		100	
I1022766	37 50 24	88 3 51	.05		3		.7		.3		N		.3		N		N		N		100	
I1022810	37 50 24	88 3 51	.7		5		1		.5		N		.5		N		N		N		150	
I1022835	37 50 24	88 3 51	.1		3		.7		.5		N		.3		N		N		N		100	
I1022855	37 50 24	88 3 51	.05		3		.5		.3		N		.5		N		N		N		100	
I1022875	37 50 24	88 3 51	.1		3		.7		.3		N		.5		N		N		N		150	
I1022895	37 50 24	88 3 51	.07		2		.5		.5		N		.3		N		N		N		100	
I1022915	37 50 24	88 3 51	.1		3		.7		.5		N		.5		N		N		N		150	
I1022935	37 50 24	88 3 51	.07		5		.5		.3		N		.5		N		N		N		100	
I1022955	37 50 24	88 3 51	.1		3		.5		.3		N		.3		N		N		N		70	
I1022975	37 50 24	88 3 51	.1		5		1		.5		N		.5		N		N		N		100	
I1022995	37 50 24	88 3 51	.07		3		.5		.3		N		.3		N		N		N		100	
I1023015	37 50 24	88 3 51	.1		5		1		.7		N		.5		N		N		N		150	
I1023035	37 50 24	88 3 51	.3		3		.7		.5		N		.5		N		N		N		150	
I1023055	37 50 24	88 3 51	.15		3		1		.5		N		.5		N		N		N		100	
I1023075	37 50 24	88 3 51	.15		5		.7		.3		N		.3		N		N		N		100	

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1021560	700	1	N	N	<10	50	100	10	N	<50	50	N	N
I1021580	2,000	2	N	N	15	150	70	30	N	50	700	5	<20
I1021600	500	2	N	N	10	100	100	30	N	50	100	<5	<20
I1021620	500	1.5	N	N	10	100	70	50	N	<50	70	<5	<20
I1021640	300	1.5	N	N	10	150	70	30	N	<50	50	5	<20
I1021660	500	1.5	N	N	<10	100	200	30	N	<50	50	<5	N
I1021680	300	2	N	N	10	100	100	50	N	50	70	<5	<20
I1021710	500	2	N	N	10	100	150	50	N	<50	50	<5	<20
I1021730	300	1	N	N	<10	70	50	20	N	<50	30	<5	<20
I1021750	500	1	N	N	10	70	70	30	N	<50	30	7	<20
I1021770	200	<1	N	N	N	20	20	10	N	N	20	N	N
I1021790	300	1.5	N	N	<10	70	30	20	N	N	50	N	<20
I1021810	200	<1	N	N	<10	30	50	15	N	N	30	N	N
I1021830	300	1.5	N	N	15	70	100	20	N	<50	70	<5	<20
I1021850	500	1.5	N	N	15	70	150	30	N	<50	50	N	<20
I1021870	300	1	N	N	10	70	70	20	N	N	70	N	<20
I1021890	200	1	N	N	<10	50	30	30	N	N	30	N	N
I1021910	300	2	N	N	10	150	30	50	N	<50	50	N	<20
I1021930	200	1.5	N	N	10	100	30	50	N	<50	30	N	N
I1021950	2,000	2	N	N	15	150	50	70	N	50	100	<5	<20
I1021970	1,000	1.5	N	N	10	150	30	50	N	50	200	N	<20
I1021990	300	1.5	N	N	10	100	100	50	N	50	100	N	<20
I1022020	300	1.5	N	N	10	100	30	20	N	50	100	N	<20
I1022040	200	1.5	N	N	<10	100	20	30	N	<50	50	N	N
I1022060	300	1.5	N	N	10	200	50	30	N	50	70	N	<20
I1022080	200	1	N	N	<10	150	30	30	N	<50	50	N	N
I1022100	200	1	N	N	<10	150	50	30	N	<50	30	N	N
I1022120	300	1.5	N	N	10	100	15	30	N	50	30	N	<20
I1022160	300	1.5	N	N	15	150	50	30	N	50	50	<5	N
I1022180	500	1.5	N	N	10	200	20	50	N	<50	30	N	N
I1022200	200	2	N	N	15	200	30	50	N	50	30	N	<20
I1022220	300	1.5	N	N	10	100	70	50	N	<50	20	N	N
I1022240	200	1.5	N	N	15	200	30	50	N	50	30	N	<20
I1022260	150	1	N	N	10	100	30	30	N	<50	20	N	N
I1022280	150	2	N	N	15	150	50	50	N	<50	30	N	N
I1022300	150	1.5	N	N	15	150	20	30	N	<50	20	N	N
I1022580	200	1.5	N	N	15	150	100	30	N	50	30	N	N
I1022600	150	1.5	N	N	10	150	20	30	N	<50	70	<5	N
I1022620	200	2	N	N	15	200	30	50	N	50	50	N	<20
I1022640	150	2	N	N	10	150	20	50	N	<50	70	N	N
I1022660	200	2	N	N	10	150	30	70	N	50	70	N	N
I1022680	150	1.5	N	N	15	200	20	30	N	<50	50	N	N
I1022700	300	1.5	N	N	20	200	200	50	N	<50	30	N	N
I1022725	200	1.5	N	N	20	150	50	30	N	<50	300	N	N
I1022745	150	1	N	N	15	150	50	50	N	<50	70	N	N
I1022766	150	1	N	N	10	150	20	20	N	<50	50	N	N
I1022810	150	1.5	N	N	15	150	50	70	N	50	100	N	N
I1022835	150	1	N	N	10	70	20	50	N	<50	50	N	N
I1022855	100	1	N	N	10	150	20	15	N	<50	30	N	N
I1022875	200	1.5	N	N	15	150	20	50	N	<50	50	N	N
I1022895	100	1	N	N	10	200	20	70	N	<50	30	N	N
I1022915	200	1.5	N	N	<10	100	15	30	N	<50	70	N	N
I1022935	150	1.5	N	N	10	150	20	50	N	<50	50	N	N
I1022955	150	1	N	N	10	100	15	30	N	<50	30	N	N
I1022975	100	1.5	N	N	15	100	20	70	N	<50	30	N	N
I1022995	100	1	N	N	10	100	15	30	N	<50	30	N	N
I1023015	150	1.5	N	N	15	200	50	50	N	<50	50	N	N
I1023035	150	2	N	N	10	70	30	30	N	50	50	N	N
I1023055	150	2	N	N	10	150	50	30	N	<50	70	N	N
I1023075	150	1.5	N	N	10	100	30	30	N	<50	70	N	N

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1021560	50	N	N	5	N	N	N	70	100	<10	200	200	<.05	1
I1021580	70	70	N	7	N	N	N	100	20	10	300	300	<.05	1
I1021600	70	<10	N	10	N	<100	N	150	N	10	300	200	<.05	1
I1021620	70	<10	N	7	N	N	N	100	<20	10	200	150	<.05	1
I1021640	70	150	N	7	N	<100	N	100	<20	<10	N	200	<.05	1
I1021660	50	15	N	5	N	<100	N	100	N	<10	<200	150	<.05	1
I1021680	70	10	N	7	N	<100	N	100	<20	10	200	200	<.05	1
I1021710	70	10	N	7	N	<100	N	100	N	<10	N	200	<.05	1
I1021730	30	<10	N	<5	N	N	N	50	500	<10	200	150	<.05	3
I1021750	50	<10	N	5	N	<100	N	100	20	<10	200	150	<.05	3
I1021770	20	N	N	<5	N	N	N	50	30	N	N	150	<.05	3
I1021790	30	<10	N	7	N	N	N	100	<20	<10	N	150	<.05	3
I1021810	30	N	N	5	N	N	N	70	N	N	N	150	<.05	3
I1021830	50	N	N	7	N	<100	N	100	30	<10	<200	200	<.05	3
I1021850	50	N	N	7	N	N	N	150	N	10	N	200	<.05	3
I1021870	30	<10	N	5	N	N	N	100	N	<10	N	200	<.05	3
I1021890	30	10	N	<5	N	N	N	70	N	<10	N	150	<.05	3
I1021910	70	<10	N	10	N	N	N	150	N	10	N	200	<.05	3
I1021930	50	<10	N	7	N	N	N	100	N	<10	N	100	.05	3
I1021950	70	10	N	10	N	N	N	150	N	10	N	200	.05	3
I1021970	50	15	N	10	N	N	N	150	N	10	N	100	.06	3
I1021990	50	10	N	10	N	N	N	150	N	10	N	150	.05	3
I1022020	70	30	N	7	N	<100	N	100	20	10	N	200	<.05	3
I1022040	30	150	N	7	N	N	N	100	<20	<10	N	100	<.05	3
I1022060	100	<10	N	10	N	N	N	150	N	10	N	200	<.05	3
I1022080	70	<10	N	7	N	N	N	100	N	10	N	300	<.05	3
I1022100	50	N	N	7	N	N	N	70	N	<10	N	200	<.05	3
I1022120	70	N	N	10	N	N	N	100	N	10	N	300	<.05	3
I1022160	100	10	N	7	N	N	N	70	70	10	N	150	<.05	4
I1022180	50	<10	N	7	N	N	N	70	N	<10	N	100	.05	4
I1022200	70	10	N	10	N	N	N	150	N	10	N	100	<.05	4
I1022220	50	10	N	7	N	N	N	100	N	<10	N	150	<.05	4
I1022240	70	10	N	10	N	N	N	100	N	10	N	150	.05	4
I1022260	50	15	N	7	N	N	N	70	N	<10	N	70	<.05	4
I1022280	70	10	N	10	N	N	N	100	N	10	N	150	<.05	4
I1022300	50	<10	N	7	N	N	N	70	N	<10	N	100	.05	4
I1022580	70	<10	N	7	N	N	N	100	N	10	N	150	<.05	5
I1022600	50	<10	N	7	N	N	N	70	N	<10	N	100	<.05	5
I1022620	70	<10	N	10	N	N	N	150	50	10	N	150	.05	5
I1022640	70	<10	N	10	N	N	N	100	N	<10	N	100	.05	5
I1022660	50	10	N	7	N	N	N	100	N	10	N	150	<.05	5
I1022680	70	N	N	7	N	N	N	150	N	<10	N	150	.05	6
I1022700	70	N	N	10	N	N	N	150	N	10	N	100	<.05	6
I1022725	70	<10	N	10	N	<100	N	100	N	10	N	150	<.05	6
I1022745	50	<10	N	7	N	N	N	100	N	<10	N	100	<.05	6
I1022766	30	N	N	7	N	N	N	100	N	<10	N	100	<.05	6
I1022810	70	10	N	10	N	<100	N	150	N	<10	500	70	.05	6
I1022835	50	10	N	5	N	N	N	70	N	<10	N	70	.06	6
I1022855	50	N	N	7	N	100	N	70	N	<10	N	70	.05	6
I1022875	70	<10	N	10	N	<100	N	100	N	10	N	100	.05	6
I1022895	50	10	N	7	N	N	N	70	N	<10	N	70	.05	6
I1022915	50	N	N	7	N	N	N	100	N	<10	N	100	<.05	6
I1022935	70	N	N	7	N	<100	N	100	N	<10	300	100	.05	6
I1022955	50	N	N	7	N	200	N	50	N	<10	N	100	.05	6
I1022975	50	<10	N	7	N	N	N	100	N	<10	N	100	<.05	6
I1022995	50	<10	N	7	N	N	N	70	N	<10	N	100	.05	6
I1023015	50	<10	N	10	N	<100	N	70	N	<10	N	70	.05	6
I1023035	30	<10	N	7	N	200	N	100	N	10	N	100	<.05	6
I1023055	50	N	N	10	N	100	N	100	N	10	N	100	.05	6
I1023075	50	50	N	7	N	<100	N	100	N	<10	N	70	<.05	6

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1023095	37 50 24	88 3 51	.15	5	1	.5	N	.5	N	N	N	100
I1023115	37 50 24	88 3 51	.15	5	1	.5	N	.7	N	N	N	100
I1023135	37 50 24	88 3 51	.15	3	.7	.3	N	.5	N	N	N	100
I1023155	37 50 24	88 3 51	.2	5	1	.5	N	.7	N	N	N	150
I1023175	37 50 24	88 3 51	.07	5	.7	.3	N	.5	N	N	N	100
I1023195	37 50 24	88 3 51	.2	7	.7	.5	N	.7	N	N	N	150
I1023215	37 50 24	88 3 51	.15	7	1	.7	N	.7	N	N	N	150
I1023235	37 50 24	88 3 51	.1	5	.7	.5	N	.5	N	N	N	100
I1023255	37 50 24	88 3 51	.1	3	.5	.3	N	.5	N	N	N	100
I1023275	37 50 24	88 3 51	.15	7	1	.5	N	.5	N	N	N	150
I1023295	37 50 24	88 3 51	.07	5	.7	.5	N	.5	N	N	N	150
I1023315	37 50 24	88 3 51	.15	5	.7	.7	N	.5	N	N	N	100
I1023335	37 50 24	88 3 51	.15	5	.7	.7	N	.5	N	N	N	100
I1023355	37 50 24	88 3 51	.2	5	.7	.7	N	.5	N	N	N	100
I1023375	37 50 24	88 3 51	.1	5	.7	.5	N	.7	N	N	N	150
I1023395	37 50 24	88 3 51	.15	3	.5	.2	N	.5	N	N	N	100
I1023415	37 50 24	88 3 51	.2	5	.7	.3	N	.5	N	N	N	100
I1023435	37 50 24	88 3 51	.15	5	1	.5	N	.5	N	N	N	150
I1023455	37 50 24	88 3 51	.15	5	.7	.3	N	.5	N	N	N	100
I1023475	37 50 24	88 3 51	.1	3	1	.5	N	.5	N	N	N	100
I1023575	37 50 24	88 3 51	.07	5	1	.5	N	.5	N	N	N	100
I1023755	37 50 24	88 3 51	.1	5	1	.5	N	.7	N	N	N	150
I1023835	37 50 24	88 3 51	.15	3	.5	.3	N	.3	N	N	N	70
I1023895	37 50 24	88 3 51	.3	2	.3	.2	N	.3	N	N	N	70
I1023915	37 50 24	88 3 51	.2	1.5	.3	<.2	N	.2	N	N	N	50
I1023955	37 50 24	88 3 51	.2	1.5	.3	.2	N	.2	N	N	N	50
I1023975	37 50 24	88 3 51	.2	1.5	.2	.2	N	.2	N	N	N	50
I1023995	37 50 24	88 3 51	.15	2	.2	.3	N	.5	N	N	N	100
I1024015	37 50 24	88 3 51	.2	2	.2	.3	N	.5	<.5	N	N	70
I1024035	37 50 24	88 3 51	.15	1.5	.2	.2	N	.3	N	N	N	50
I1024055	37 50 24	88 3 51	.2	1.5	.2	.2	N	.3	N	N	N	70
I1024075	37 50 24	88 3 51	.5	2	.3	.3	N	.5	N	N	N	100
I1024095	37 50 24	88 3 51	.1	2	.2	.3	N	.3	<.5	N	N	70
I1024115	37 50 24	88 3 51	.2	1	.15	.2	N	.2	<.5	N	N	50
I1024135	37 50 24	88 3 51	.1	.7	.1	<.2	N	.1	N	N	N	30
I1024155	37 50 24	88 3 51	.5	1	.15	<.2	N	.15	<.5	N	N	50
I1024175	37 50 24	88 3 51	.7	.7	.2	<.2	N	.07	<.5	N	N	30
I1024195	37 50 24	88 3 51	.7	.7	.2	<.2	N	.15	N	N	N	50
I1024215	37 50 24	88 3 51	.7	1	.2	<.2	N	.15	<.5	N	N	50
I1024235	37 50 24	88 3 51	.07	1	.15	.2	N	.1	N	N	N	30
I1024255	37 50 24	88 3 51	2	1	.5	.2	N	.15	<.5	N	N	50
I1024275	37 50 24	88 3 51	.15	1.5	.2	.3	N	.3	<.5	N	N	100
I1024300	37 50 24	88 3 51	2	2	.7	.5	N	.3	.5	N	N	70
I1024620	37 50 24	88 3 51	.7	3	1	.7	N	.5	.7	N	N	150
I1024640	37 50 24	88 3 51	.5	3	1	1	N	.5	1.5	N	N	150
I1024660	37 50 24	88 3 51	.2	3	.5	.5	N	.3	.7	N	N	100
I1024680	37 50 24	88 3 51	.7	1.5	.3	.2	N	.2	N	N	N	100
I1024700	37 50 24	88 3 51	.3	2	.5	.3	N	.3	N	N	N	150
I1024720	37 50 24	88 3 51	.15	5	.5	.5	N	.5	N	N	N	150
I1024740	37 50 24	88 3 51	.5	3	.5	.2	N	.3	N	N	N	150
I1024760	37 50 24	88 3 51	.15	1.5	.3	.2	N	.2	N	N	N	70
I1024780	37 50 24	88 3 51	.1	2	.3	.2	N	.3	N	N	N	70
I1024800	37 50 24	88 3 51	.3	2	.5	.2	N	.2	N	N	N	100
I1024820	37 50 24	88 3 51	.1	2	.3	.2	N	.3	N	N	N	100
I1024840	37 50 24	88 3 51	.1	3	.5	.3	N	.3	N	N	N	100
I1024860	37 50 24	88 3 51	.07	2	.2	.3	N	.3	N	N	N	100
I1024887	37 50 24	88 3 51	.7	2	.5	.2	N	.2	N	N	N	100
I1024912	37 50 24	88 3 51	1.5	.7	.5	N	N	.07	N	N	N	50
I1024933	37 50 24	88 3 51	1	.5	.15	N	N	.015	N	N	N	30
I1024954	37 50 24	88 3 51	.7	2	.2	N	N	.2	N	N	N	50

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1023095	200	1.5	N	N	15	200	70	50	N	<50	50	N	N
I1023115	150	1.5	N	N	10	200	20	30	N	<50	50	<5	N
I1023135	150	1.5	N	N	10	200	15	30	N	<50	30	N	N
I1023155	200	2	N	N	15	200	30	50	N	<50	30	N	N
I1023175	100	1.5	N	N	10	150	30	50	N	<50	20	N	N
I1023195	200	2	N	N	15	200	50	30	N	50	50	N	N
I1023215	150	2	N	N	15	300	50	30	N	50	70	N	N
I1023235	100	1.5	N	N	10	150	20	20	N	<50	20	<5	N
I1023255	150	1.5	N	N	<10	70	15	20	N	N	20	N	N
I1023275	150	1.5	N	N	10	200	20	30	N	<50	30	<5	N
I1023295	200	1.5	N	N	15	150	100	50	N	<50	20	<5	N
I1023315	200	1.5	N	N	<10	150	70	50	N	<50	15	5	N
I1023335	200	1.5	N	N	10	200	50	70	N	<50	30	<5	N
I1023355	150	1	N	N	15	150	100	50	N	<50	20	<5	N
I1023375	300	1.5	N	N	10	200	500	50	N	<50	20	<5	N
I1023395	200	1.5	N	N	10	150	20	30	N	<50	20	N	N
I1023415	500	2	N	N	10	150	70	50	N	50	70	<5	N
I1023435	200	2	N	N	15	200	50	50	N	<50	50	N	N
I1023455	150	1.5	N	N	10	150	50	50	N	<50	50	N	N
I1023475	200	1.5	N	N	10	100	30	50	N	<50	30	N	N
I1023575	150	1.5	N	N	10	100	15	50	N	<50	50	N	N
I1023755	200	2	N	N	10	150	30	50	N	50	70	N	<20
I1023835	150	<1	N	N	<10	50	20	20	N	<50	100	N	N
I1023895	100	N	N	N	N	20	15	5	N	N	20	N	N
I1023915	100	N	N	N	N	15	20	N	N	N	15	N	N
I1023955	100	N	N	N	N	15	15	5	N	N	15	N	N
I1023975	100	N	N	N	N	10	10	N	N	N	15	N	N
I1023995	200	<1	N	N	N	15	20	5	N	N	20	N	N
I1024015	200	N	N	N	N	15	20	<5	N	N	20	<5	N
I1024035	100	N	N	N	N	15	15	<5	N	N	20	N	N
I1024055	150	N	N	N	N	15	10	5	N	N	20	N	N
I1024075	150	<1	N	N	N	20	15	<5	N	N	20	N	N
I1024095	150	N	N	N	N	10	20	5	N	N	15	N	N
I1024115	500	N	N	N	N	<10	10	N	N	N	10	N	N
I1024135	70	N	N	N	N	N	7	N	N	N	<10	N	N
I1024155	100	N	N	N	N	<10	30	N	N	N	10	N	N
I1024175	70	N	N	N	N	N	50	N	N	N	<10	N	N
I1024195	100	N	N	N	N	N	10	N	N	N	<10	N	N
I1024215	200	N	N	N	N	<10	15	N	N	N	<10	N	N
I1024235	100	N	N	N	N	<10	10	N	N	N	<10	N	N
I1024255	150	N	N	N	N	10	10	<5	N	N	30	N	N
I1024275	200	<1	N	N	N	15	15	5	N	N	15	N	N
I1024300	200	1	N	N	<10	30	50	15	N	N	70	20	N
I1024620	200	2	N	N	15	70	500	20	N	<50	70	50	N
I1024640	200	1.5	N	N	10	70	700	30	N	<50	70	30	N
I1024660	150	1	N	N	10	50	500	30	N	<50	50	15	N
I1024680	100	1	N	N	<10	15	150	5	N	N	30	10	N
I1024700	200	1.5	N	N	10	20	150	10	N	N	50	20	N
I1024720	150	1	N	N	10	50	100	30	N	N	50	15	N
I1024740	150	1	N	N	<10	20	300	7	N	N	30	7	N
I1024760	100	<1	N	N	<10	10	50	5	N	N	15	N	N
I1024780	100	1	N	N	<10	20	30	5	N	N	20	<5	N
I1024800	150	1	N	N	<10	15	30	7	N	N	20	5	N
I1024820	150	<1	N	N	<10	20	20	10	N	N	15	N	N
I1024840	200	<1	N	N	<10	30	20	15	N	N	30	5	N
I1024860	150	<1	N	N	N	20	50	5	N	N	15	<5	N
I1024887	150	N	N	N	<10	10	30	<5	N	N	30	N	N
I1024912	30	N	N	N	N	N	15	N	N	N	15	N	N
I1024933	<20	N	N	N	N	N	500	N	N	N	<10	N	N
I1024954	150	N	N	N	N	70	70	N	N	N	30	N	<20

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1023095	50	<10	N	10	N	N	N	100	N	10	N	100	.05	6
I1023115	50	70	N	7	N	N	N	100	N	<10	N	150	.06	6
I1023135	50	N	N	7	N	N	N	100	N	10	N	100	.06	6
I1023155	70	<10	N	10	N	100	N	150	N	<10	N	150	.06	6
I1023175	50	N	N	7	N	N	N	100	N	<10	N	100	.06	6
I1023195	70	<10	N	10	N	<100	N	150	N	10	N	150	.06	6
I1023215	70	N	N	10	N	N	N	150	N	10	N	150	.05	6
I1023235	50	N	N	5	N	<100	N	100	N	<10	N	100	<.05	7
I1023255	30	N	N	5	N	300	N	70	N	<10	N	100	.06	7
I1023275	70	<10	N	7	N	100	N	100	N	<10	N	150	.06	7
I1023295	70	<10	N	7	N	N	N	70	N	<10	N	150	.07	7
I1023315	50	<10	N	7	N	N	N	100	N	<10	N	100	.06	7
I1023335	70	N	N	10	N	100	N	100	N	10	N	150	.07	7
I1023355	70	10	N	7	N	150	N	70	<20	<10	N	100	.07	7
I1023375	70	10	N	7	N	<100	N	100	N	<10	N	100	.07	7
I1023395	50	N	N	7	N	<100	N	70	N	<10	N	150	.09	7
I1023415	70	<10	N	10	N	100	N	100	N	10	N	150	.07	7
I1023435	50	<10	N	10	N	100	N	100	50	<10	N	100	.06	7
I1023455	50	<10	N	5	N	100	N	70	N	<10	N	100	.08	7
I1023475	30	<10	N	7	N	200	N	70	N	<10	<200	100	.06	7
I1023575	50	<10	N	5	N	N	N	100	N	<10	N	100	.06	7
I1023755	70	<10	N	7	N	N	N	100	N	10	N	150	.06	7
I1023835	30	N	N	5	N	200	N	100	N	<10	N	150	<.05	7
I1023895	20	N	N	<5	N	<100	N	70	N	N	N	70	<.05	7
I1023915	15	N	N	<5	N	200	N	50	N	N	N	70	<.05	7
I1023955	15	N	N	<5	N	<100	N	50	N	N	N	70	<.05	7
I1023975	10	N	N	N	N	N	N	50	N	N	N	70	<.05	7
I1023995	15	N	N	<5	N	500	N	70	N	N	N	100	<.05	7
I1024015	50	N	N	<5	N	<100	N	70	N	N	N	100	<.05	7
I1024035	20	N	N	N	N	<100	N	50	N	N	N	30	<.05	7
I1024055	15	N	N	<5	N	N	N	50	N	N	N	70	<.05	7
I1024075	20	N	N	<5	N	N	N	70	N	N	N	70	<.05	7
I1024095	20	N	N	N	N	N	N	50	N	N	N	50	<.05	7
I1024115	15	N	N	N	N	N	N	30	N	N	N	30	<.05	7
I1024135	10	N	N	N	N	N	N	20	N	N	N	30	<.05	7
I1024155	10	<10	N	N	N	N	N	30	N	N	N	30	<.05	7
I1024175	7	N	N	N	N	N	N	15	N	N	N	15	<.05	7
I1024195	7	N	N	N	N	N	N	20	N	N	N	30	<.05	7
I1024215	10	N	N	N	N	N	N	30	N	N	N	30	<.05	7
I1024235	10	N	N	N	N	N	N	20	N	N	N	20	<.05	7
I1024255	10	N	N	<5	N	N	N	30	N	N	N	20	<.05	7
I1024275	15	N	N	<5	N	N	N	50	N	N	N	50	<.05	7
I1024300	50	10	N	5	N	N	N	300	N	<10	<200	30	<.05	8
I1024620	200	10	N	7	N	N	N	500	N	10	<200	70	.07	10
I1024640	150	20	N	7	N	N	N	500	N	<10	200	50	.08	10
I1024660	100	20	N	5	N	N	N	200	N	<10	N	50	.07	10
I1024680	30	30	N	<5	N	N	N	150	N	N	<200	30	<.05	10
I1024700	70	10	N	5	N	N	N	100	<20	N	300	70	<.05	10
I1024720	70	15	N	7	N	<100	N	150	N	N	N	70	.07	10
I1024740	50	<10	N	<5	N	N	N	100	N	N	N	50	<.05	10
I1024760	30	<10	N	<5	N	N	N	30	N	N	N	20	<.05	10
I1024780	20	10	N	<5	N	N	N	50	N	N	N	70	<.05	10
I1024800	20	N	N	<5	N	N	N	100	N	N	N	50	.05	10
I1024820	15	150	N	<5	N	N	N	70	<20	N	N	70	<.05	10
I1024840	20	<10	N	5	N	N	N	70	N	N	N	70	.05	10
I1024860	15	N	N	<5	N	N	N	70	N	N	N	150	<.05	10
I1024887	15	N	N	<5	N	N	N	50	N	N	N	30	.05	10
I1024912	7	N	N	N	N	N	N	15	<20	N	N	20	<.05	10
I1024933	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.05	10
I1024954	30	<10	N	N	N	N	N	70	N	N	<200	300	<.05	10

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I102, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1024974	37 50 24	88 3 51	.15	.5	.03	N	N	.05	N	N	N	N
I1024993	37 50 24	88 3 51	2	.1	1	N	N	.01	N	N	N	15
I1025012	37 50 24	88 3 51	.3	.5	.15	N	N	.07	N	N	N	20
I1025035	37 50 24	88 3 51	.1	.7	.07	N	N	.07	N	N	N	20
I1025047	37 50 24	88 3 51	2	.2	.3	N	N	.02	N	N	N	15

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1024974	20	N	N	N	N	<10	5	N	N	N	N	N	N
I1024993	N	N	N	N	N	N	<5	N	N	N	15	N	N
I1025012	30	N	N	N	N	N	5	N	N	N	<10	N	N
I1025035	<20	N	N	N	N	N	5	N	N	N	<10	N	N
I1025047	20	N	N	N	N	N	5	N	N	N	10	N	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1024974	<5	N	N	N	N	N	N	20	N	N	N	50	<.05	10
I1024993	N	N	N	N	N	N	N	N	N	N	N	N	<.05	10
I1025012	<5	N	N	N	N	N	N	15	N	N	N	70	<.05	10
I1025035	5	N	N	N	N	N	N	15	N	N	N	70	<.05	10
I1025047	<5	N	N	N	N	N	N	N	N	N	N	10	<.05	10

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I1030670	37 41 16	89 17 13	.07	5	1.5	.2	N	.5
I1030690	37 41 16	89 17 13	.05	2	.7	.2	N	.5
I1030830	37 41 16	89 17 13	.07	3	1	.3	N	.5
I1030850	37 41 16	89 17 13	.07	3	1	.3	N	.3
I1030870	37 41 16	89 17 13	<.05	5	1	.3	N	.3
I1030890	37 41 16	89 17 13	.15	5	1.5	.3	N	.5
I1030910	37 41 16	89 17 13	.05	5	1	.5	N	.3
I1030960	37 41 16	89 17 13	.05	3	.5	.2	N	.3
I1031080	37 41 16	89 17 13	<.05	2	1	.7	N	.5
I1031100	37 41 16	89 17 13	.1	5	1	.2	N	.3
I1031120	37 41 16	89 17 13	.07	2	1	.3	N	.5
I1031140	37 41 16	89 17 13	.07	5	1.5	.7	N	.7
I1031190	37 41 16	89 17 13	<.05	2	.7	.5	N	.5
I1031210	37 41 16	89 17 13	.15	2	1	.3	N	.5
I1031230	37 41 16	89 17 13	.15	3	1	<.2	N	.5
I1031250	37 41 16	89 17 13	.15	5	1	.2	N	.5
I1031270	37 41 16	89 17 13	.1	3	1	.3	N	.3
I1031290	37 41 16	89 17 13	.15	5	1	.3	N	.5
I1031320	37 41 16	89 17 13	.1	5	1	.5	N	.3
I1031340	37 41 16	89 17 13	.07	3	.7	<.2	N	.3
I1031360	37 41 16	89 17 13	.05	3	.7	.2	N	.5
I1031380	37 41 16	89 17 13	<.05	2	.3	.2	N	.3
I1031400	37 41 16	89 17 13	.05	2	.5	.5	N	.3
I1031420	37 41 16	89 17 13	<.05	2	.3	.5	N	.5
I1031460	37 41 16	89 17 13	.05	1.5	.3	<.2	N	.3
I1031480	37 41 16	89 17 13	.07	3	.7	.3	N	.7
I1031500	37 41 16	89 17 13	<.05	2	.7	.5	N	.5
I1031520	37 41 16	89 17 13	.05	5	1	.5	N	.5
I1031540	37 41 16	89 17 13	.07	5	.7	.3	N	.5
I1031560	37 41 16	89 17 13	.05	2	.5	.5	N	.5
I1031580	37 41 16	89 17 13	.07	3	.7	.5	N	.3
I1031600	37 41 16	89 17 13	.07	5	.5	.3	N	.5
I1031620	37 41 16	89 17 13	.07	3	1	.3	N	.5
I1031650	37 41 16	89 17 13	<.05	3	.5	.7	N	.3
I1031670	37 41 16	89 17 13	.05	2	.3	.2	N	.3
I1031690	37 41 16	89 17 13	.05	2	.5	<.2	N	.5
I1031710	37 41 16	89 17 13	.07	3	.7	.3	N	.5
I1031730	37 41 16	89 17 13	.1	5	1	.2	N	.5
I1031750	37 41 16	89 17 13	.07	3	.7	<.2	N	.3
I1031770	37 41 16	89 17 13	.07	2	.7	<.2	N	.3
I1031790	37 41 16	89 17 13	<.05	5	1	.3	N	.5
I1031810	37 41 16	89 17 13	.07	5	1	.3	N	.5
I1031830	37 41 16	89 17 13	.07	5	1	.3	N	.5
I1031850	37 41 16	89 17 13	.07	3	1	.3	N	.3
I1031870	37 41 16	89 17 13	.1	5	1	.5	N	.7
I1031890	37 41 16	89 17 13	.07	5	.7	.3	N	.5
I1031910	37 41 16	89 17 13	.07	5	1	.3	N	.7
I1031930	37 41 16	89 17 13	.05	5	1.5	.5	N	.5
I1031950	37 41 16	89 17 13	.05	5	1.5	.5	N	.5
I1031970	37 41 16	89 17 13	.07	5	1	.2	N	.5
I1031990	37 41 16	89 17 13	.1	10	1.5	.2	N	.3
I1032010	37 41 16	89 17 13	.07	3	1.5	.3	N	.5
I1032030	37 41 16	89 17 13	.1	2	.5	<.2	N	.3
I1032050	37 41 16	89 17 13	.07	5	1	.5	N	.7
I1032070	37 41 16	89 17 13	.07	7	1.5	.3	N	.7
I1032090	37 41 16	89 17 13	.05	5	1.5	.2	N	.5
I1032110	37 41 16	89 17 13	.1	5	1	.3	N	.5
I1032130	37 41 16	89 17 13	.07	7	1	.2	N	.5
I1032150	37 41 16	89 17 13	.05	5	1	.2	N	.3
I1032170	37 41 16	89 17 13	.07	3	1	.2	N	.3

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I1030670	N	N	N	100	200	1.5	N	N	15	200	20
I1030690	N	N	N	70	500	1	N	N	<10	100	30
I1030830	N	N	N	100	300	1	N	N	10	150	100
I1030850	N	N	N	70	100	1	N	N	15	70	50
I1030870	N	N	N	50	150	1	N	N	10	70	70
I1030890	N	N	N	100	150	1.5	N	N	15	200	50
I1030910	N	N	N	70	700	1	N	N	<10	100	20
I1030960	<.5	N	N	70	300	<1	15	N	10	50	30
I1031080	N	N	N	70	200	<1	N	N	10	200	30
I1031100	N	N	N	100	200	1.5	N	N	10	150	50
I1031120	N	N	N	70	150	1.5	N	N	<10	150	15
I1031140	N	N	N	100	200	2	N	N	15	300	30
I1031190	N	N	N	50	150	1	N	N	<10	100	20
I1031210	N	N	N	70	150	1	N	N	10	150	30
I1031230	N	N	N	70	150	1.5	N	N	<10	150	20
I1031250	N	N	N	100	300	1.5	N	N	10	200	30
I1031270	N	N	N	50	100	1	N	N	10	100	50
I1031290	N	N	N	70	700	1.5	N	N	15	100	30
I1031320	N	N	N	70	500	1	N	N	15	100	30
I1031340	N	N	N	100	700	1.5	N	N	10	70	20
I1031360	N	N	N	150	150	2	N	N	10	150	20
I1031380	N	N	N	70	200	<1	N	N	<10	50	15
I1031400	N	N	N	50	150	<1	N	N	<10	100	20
I1031420	N	N	N	70	300	1	N	N	<10	70	50
I1031460	N	N	N	50	150	<1	N	N	N	30	10
I1031480	N	N	N	100	500	2	N	N	10	200	30
I1031500	N	N	N	70	300	1	N	N	<10	70	15
I1031520	N	N	N	100	500	1.5	N	N	10	100	20
I1031540	N	N	N	100	200	1.5	N	N	10	100	100
I1031560	N	N	N	70	150	1	N	N	<10	70	20
I1031580	N	N	N	70	200	1	N	N	<10	70	10
I1031600	N	N	N	70	150	1	N	N	<10	100	15
I1031620	N	N	N	100	700	1.5	N	N	10	200	50
I1031650	N	N	N	50	150	<1	N	N	<10	150	15
I1031670	N	N	N	70	300	1	N	N	<10	50	10
I1031690	N	N	N	70	150	1	N	N	<10	50	50
I1031710	N	N	N	70	1,000	1.5	N	N	<10	150	15
I1031730	N	N	N	70	500	1	N	N	10	200	20
I1031750	N	N	N	100	300	2	N	N	10	70	15
I1031770	N	N	N	70	200	1.5	N	N	<10	100	20
I1031790	N	N	N	100	300	1.5	N	N	15	150	30
I1031810	N	N	N	100	500	1.5	N	N	20	100	50
I1031830	N	N	N	70	200	1.5	N	N	15	200	30
I1031850	N	N	N	70	200	1.5	N	N	10	150	50
I1031870	N	N	N	100	200	1.5	N	N	10	200	30
I1031890	N	N	N	70	150	1	N	N	10	200	30
I1031910	N	N	N	100	200	1.5	N	N	10	200	30
I1031930	N	N	N	100	150	1.5	N	N	10	200	30
I1031950	N	N	N	70	150	1.5	N	N	10	200	30
I1031970	N	N	N	100	300	2	N	N	15	150	30
I1031990	N	N	N	70	100	1	N	N	10	100	50
I1032010	N	N	N	150	150	2	N	N	15	200	30
I1032030	N	N	N	100	100	1	N	N	<10	70	20
I1032050	N	N	N	70	200	1.5	N	N	10	200	20
I1032070	N	N	N	70	200	1.5	N	N	15	200	50
I1032090	N	N	N	100	150	1.5	N	N	15	200	50
I1032110	N	N	N	100	>5,000	1.5	N	N	10	150	30
I1032130	N	N	N	100	300	1.5	N	N	20	150	50
I1032150	N	N	N	70	150	1.5	N	N	10	100	20
I1032170	N	N	N	70	70	1	N	N	10	100	15

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I1030670	70	N	<50	50	<5	N	50	10	N
I1030690	50	N	<50	20	<5	N	20	700	N
I1030830	30	N	<50	30	5	N	50	20	N
I1030850	20	N	N	70	<5	N	30	10	N
I1030870	20	N	N	50	5	N	50	<10	N
I1030890	50	N	<50	50	7	N	70	700	N
I1030910	30	N	N	30	<5	N	20	15	N
I1030960	15	N	N	30	N	N	30	>20,000	N
I1031080	50	N	<50	20	N	N	30	500	N
I1031100	30	N	<50	100	5	N	50	100	N
I1031120	30	N	<50	70	N	N	30	15	N
I1031140	70	N	50	70	N	N	70	15	N
I1031190	20	N	<50	30	N	N	30	10	N
I1031210	50	N	<50	50	<5	N	50	10	N
I1031230	20	N	<50	50	N	N	30	<10	N
I1031250	30	N	50	50	5	N	70	700	N
I1031270	50	N	<50	30	<5	N	30	70	N
I1031290	20	N	<50	50	N	N	30	10	N
I1031320	30	N	<50	30	N	N	50	15	N
I1031340	30	N	<50	50	N	N	50	15	N
I1031360	50	N	50	70	N	<20	50	10	N
I1031380	20	N	<50	30	N	N	20	N	N
I1031400	30	N	<50	30	N	N	30	<10	N
I1031420	20	N	<50	30	N	N	50	N	N
I1031460	15	N	N	30	N	N	30	N	N
I1031480	50	N	<50	50	N	N	70	<10	N
I1031500	30	N	<50	30	N	N	50	15	N
I1031520	50	N	<50	70	N	N	70	300	N
I1031540	30	N	<50	50	N	N	70	30	N
I1031560	20	N	N	20	N	N	30	<10	N
I1031580	30	N	N	50	<5	N	30	<10	N
I1031600	30	N	<50	30	N	N	50	N	N
I1031620	50	N	<50	50	N	N	50	200	N
I1031650	30	N	<50	15	N	N	20	15	N
I1031670	10	N	N	20	N	N	20	N	N
I1031690	15	N	N	30	<5	N	30	10	N
I1031710	50	N	<50	50	<5	N	30	20	N
I1031730	30	N	N	70	5	N	50	200	N
I1031750	30	N	<50	70	N	N	20	70	N
I1031770	30	N	<50	70	<5	N	30	200	N
I1031790	50	N	<50	70	10	<20	50	100	N
I1031810	50	N	<50	50	7	N	70	20	N
I1031830	50	N	<50	50	5	N	70	15	N
I1031850	30	N	<50	70	5	N	50	50	N
I1031870	50	N	50	50	N	<20	70	<10	N
I1031890	50	N	N	30	<5	N	50	10	N
I1031910	50	N	50	50	N	<20	70	30	N
I1031930	50	N	<50	30	N	N	70	10	N
I1031950	70	N	<50	30	N	N	70	<10	N
I1031970	50	N	<50	50	<5	N	100	15	N
I1031990	50	N	N	500	5	N	50	10	N
I1032010	50	N	<50	100	N	<20	70	150	N
I1032030	10	N	<50	70	N	N	50	70	N
I1032050	50	N	<50	50	5	N	70	20	N
I1032070	30	N	<50	100	7	N	70	10	N
I1032090	30	N	<50	70	<5	<20	50	2,000	N
I1032110	30	N	<50	100	10	N	50	1,000	N
I1032130	30	N	50	70	5	<20	70	50	N
I1032150	20	N	N	70	<5	N	30	30	N
I1032170	30	N	<50	50	<5	N	50	10	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1030670	10	N	N	N	100	N	<10	N	70	.15	3
I1030690	5	N	N	N	70	20	<10	N	100	.11	3
I1030830	7	N	N	N	100	100	<10	<200	150	.13	3
I1030850	5	N	N	N	70	200	N	N	150	.14	3
I1030870	5	N	N	N	70	<20	N	N	70	.17	3
I1030890	10	N	N	N	150	50	<10	700	100	.21	3
I1030910	7	N	N	N	70	N	N	N	50	.17	3
I1030960	5	N	N	N	100	20	N	N	70	.08	3
I1031080	7	N	N	N	100	N	10	N	150	.061	3
I1031100	7	N	N	N	150	<20	<10	N	100	.12	4
I1031120	10	N	N	N	150	N	<10	N	70	.08	4
I1031140	15	N	N	N	150	N	10	N	150	.093	4
I1031190	5	N	N	N	70	20	<10	N	150	.1	4
I1031210	7	N	N	N	100	30	<10	N	100	.13	4
I1031230	10	N	N	N	100	N	N	N	70	.19	4
I1031250	10	N	N	N	100	30	<10	N	100	.17	4
I1031270	5	N	N	N	70	N	<10	<200	70	.15	4
I1031290	7	N	N	N	100	<20	<10	N	100	.11	4
I1031320	7	N	N	N	70	<20	<10	N	200	.09	4
I1031340	7	N	N	N	100	N	<10	N	70	.07	4
I1031360	10	N	N	N	100	N	10	N	70	.08	4
I1031380	5	N	N	N	70	30	N	N	100	.06	5
I1031400	7	N	N	N	70	50	<10	N	200	.07	5
I1031420	5	N	N	N	100	70	10	N	200	.06	5
I1031460	<5	N	N	N	50	30	N	N	200	.063	5
I1031480	10	N	N	N	100	N	<10	N	150	.13	5
I1031500	5	N	N	N	70	<20	<10	N	100	.11	5
I1031520	7	N	N	N	100	N	<10	N	100	.11	5
I1031540	7	N	N	N	100	N	<10	N	100	.11	5
I1031560	5	N	N	N	70	<20	N	N	150	.11	5
I1031580	5	N	N	N	70	N	N	N	100	.12	5
I1031600	7	N	N	N	100	N	<10	N	100	.09	5
I1031620	10	N	N	N	150	20	<10	N	100	.1	6
I1031650	5	N	N	N	50	50	10	N	200	.1	6
I1031670	<5	N	N	N	50	30	N	N	300	.06	6
I1031690	5	N	N	N	70	50	<10	N	100	.09	6
I1031710	7	N	N	N	70	50	<10	N	70	.093	6
I1031730	7	N	N	N	70	50	<10	<200	150	.13	6
I1031750	7	N	N	N	100	N	N	N	70	.11	6
I1031770	7	N	N	N	70	30	N	N	200	.093	6
I1031790	7	N	N	N	70	200	<10	<200	100	.1	6
I1031810	7	N	N	N	70	100	<10	N	100	.11	6
I1031830	7	N	N	N	100	<20	<10	N	100	.1	6
I1031850	7	N	N	N	70	N	<10	N	70	.18	6
I1031870	10	N	N	N	150	N	10	N	200	.11	6
I1031890	7	N	N	N	100	N	<10	N	70	.11	6
I1031910	10	N	N	N	150	N	<10	N	100	.11	6
I1031930	7	N	N	N	100	N	<10	N	70	.19	6
I1031950	7	N	N	N	100	N	<10	N	70	.12	6
I1031970	7	N	N	N	100	50	<10	N	100	.14	6
I1031990	7	N	<100	N	70	30	<10	N	70	.14	6
I1032010	10	N	N	N	150	<20	10	N	100	.12	6
I1032030	5	N	N	N	70	20	<10	N	200	.12	6
I1032050	10	N	N	N	100	50	<10	N	70	.11	6
I1032070	10	N	N	N	100	N	<10	N	100	.14	6
I1032090	10	N	N	N	100	N	<10	N	100	.16	6
I1032110	7	N	200	N	100	<20	<10	N	70	.12	6
I1032130	10	N	<100	N	150	<20	<10	N	100	.13	6
I1032150	7	N	100	N	70	20	<10	N	70	.14	6
I1032170	7	N	<100	N	100	100	<10	N	70	.12	6

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I1032190	37 41 16	89 17 13	.05	5	1.5	.3	N	.7
I1032210	37 41 16	89 17 13	.07	7	1	.2	N	.7
I1032230	37 41 16	89 17 13	.07	7	1	.2	N	.5
I1032250	37 41 16	89 17 13	.07	5	1	.7	N	.5
I1032270	37 41 16	89 17 13	.07	5	1	.3	N	.5
I1032290	37 41 16	89 17 13	.1	5	1	.5	N	.5
I1032310	37 41 16	89 17 13	<.05	3	1	.3	N	.3
I1032330	37 41 16	89 17 13	.07	3	.7	.3	N	.5
I1032350	37 41 16	89 17 13	.1	5	.7	.3	N	.5
I1032370	37 41 16	89 17 13	.05	3	1	.3	N	.5
I1032390	37 41 16	89 17 13	.07	5	.7	.5	N	.3
I1032410	37 41 16	89 17 13	.07	3	.7	.3	N	.5
I1032430	37 41 16	89 17 13	.07	5	.7	.5	N	.7
I1032450	37 41 16	89 17 13	.1	3	.5	<.2	N	.7
I1032470	37 41 16	89 17 13	.1	5	.7	.2	N	.3
I1032490	37 41 16	89 17 13	.07	3	.7	.2	N	.7
I1032510	37 41 16	89 17 13	.15	3	.7	.2	N	.5
I1032530	37 41 16	89 17 13	.1	5	.7	.2	N	.5
I1032550	37 41 16	89 17 13	.15	3	.7	.3	N	.7
I1032570	37 41 16	89 17 13	.15	3	1	.5	N	.5
I1032590	37 41 16	89 17 13	.05	5	1	1	N	.3
I1032610	37 41 16	89 17 13	<.05	3	1	1	N	.5
I1032630	37 41 16	89 17 13	<.05	3	.7	.5	N	.5
I1032660	37 41 16	89 17 13	.1	3	.5	<.2	N	.3
I1032680	37 41 16	89 17 13	.05	2	.3	<.2	N	.3
I1032700	37 41 16	89 17 13	.1	2	.3	<.2	N	.2
I1032720	37 41 16	89 17 13	.07	5	1	.2	N	.7
I1032740	37 41 16	89 17 13	.1	5	1	.5	N	.7
I1032760	37 41 16	89 17 13	.05	5	1	.5	N	.5
I1032780	37 41 16	89 17 13	<.05	5	1	.5	N	.5
I1032800	37 41 16	89 17 13	.1	7	1	.3	N	.7
I1032820	37 41 16	89 17 13	.05	5	1	.7	N	.5
I1032840	37 41 16	89 17 13	.1	7	1	.3	N	.7
I1032860	37 41 16	89 17 13	.07	5	.7	.2	N	.5
I1032880	37 41 16	89 17 13	.05	3	.5	.2	N	.5
I1032900	37 41 16	89 17 13	.07	3	.7	.2	N	.5
I1032920	37 41 16	89 17 13	.1	5	1	.3	N	.5
I1032940	37 41 16	89 17 13	.07	2	.7	.3	N	.3
I1032960	37 41 16	89 17 13	.1	3	1	.2	N	.5
I1032975	37 41 16	89 17 13	.1	3	1.5	.5	N	.5
I1032995	37 41 16	89 17 13	.1	3	.7	.3	N	.7
I1033015	37 41 16	89 17 13	.1	5	1	.5	N	.5
I1033035	37 41 16	89 17 13	.07	5	.7	.3	N	.5
I1033055	37 41 16	89 17 13	.05	5	1	.2	N	.3
I1033075	37 41 16	89 17 13	.07	5	1	.3	N	.5
I1033095	37 41 16	89 17 13	.07	5	.7	.3	N	.5
I1033115	37 41 16	89 17 13	.15	7	1	.3	N	.7
I1033135	37 41 16	89 17 13	.1	5	.7	.3	N	.5
I1033155	37 41 16	89 17 13	.07	5	.7	.3	N	.5
I1033175	37 41 16	89 17 13	.07	5	1	.3	N	.5
I1033195	37 41 16	89 17 13	.1	5	1	.3	N	.7
I1033215	37 41 16	89 17 13	.07	5	.7	.2	N	.5
I1033235	37 41 16	89 17 13	.1	3	.7	.2	N	.3
I1033255	37 41 16	89 17 13	.3	5	.7	.2	N	.5
I1033275	37 41 16	89 17 13	.05	5	.7	.3	N	.5
I1033295	37 41 16	89 17 13	.1	5	.5	<.2	N	.3
I1033315	37 41 16	89 17 13	.05	1.5	.3	N	N	.3
I1033335	37 41 16	89 17 13	.05	2	.3	<.2	N	.3
I1033355	37 41 16	89 17 13	<.05	3	.7	.5	N	.5
I1033380	37 41 16	89 17 13	<.05	3	.7	1	N	.5

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I1032190	N	N	N	100	200	2	N	N	15	200	30
I1032210	N	N	N	150	500	2	N	N	10	150	20
I1032230	N	N	N	100	200	1.5	N	N	10	200	70
I1032250	N	N	N	100	500	1	N	N	10	300	20
I1032270	N	N	N	100	150	1	N	N	10	200	20
I1032290	N	N	N	100	100	1.5	N	N	10	200	20
I1032310	N	N	N	50	70	1	N	N	<10	150	15
I1032330	N	N	N	100	100	1	N	N	10	200	20
I1032350	N	N	N	100	150	1.5	N	N	15	200	20
I1032370	N	N	N	70	100	1.5	N	N	10	150	15
I1032390	N	N	N	70	100	1.5	N	N	10	150	50
I1032410	N	N	N	100	700	1.5	N	N	10	150	15
I1032430	N	N	N	100	200	1.5	N	N	15	200	50
I1032450	N	N	N	100	200	1	N	N	10	100	20
I1032470	N	N	N	70	150	1.5	N	N	15	150	50
I1032490	N	N	N	100	700	1.5	N	N	10	200	30
I1032510	N	N	N	70	70	1	N	N	15	100	30
I1032530	N	N	N	100	700	2	N	N	10	150	30
I1032550	N	N	N	100	150	2	N	N	15	200	20
I1032570	N	N	N	100	200	2	N	N	10	200	20
I1032590	N	N	N	150	200	1.5	N	N	15	100	30
I1032610	N	N	N	100	300	1.5	N	N	10	150	50
I1032630	N	N	N	70	200	1.5	N	N	10	100	70
I1032660	N	N	N	100	150	<1	N	N	<10	30	30
I1032680	N	N	N	70	70	N	N	N	N	20	10
I1032700	N	N	N	50	300	N	N	N	N	15	10
I1032720	N	N	N	100	100	1.5	N	N	<10	150	70
I1032740	N	N	N	100	150	1.5	N	N	<10	200	20
I1032760	N	N	N	100	100	1	N	N	10	200	30
I1032780	N	N	N	70	100	1	N	N	10	150	15
I1032800	N	N	N	150	150	1.5	N	N	15	200	30
I1032820	N	N	N	70	200	1	N	N	10	300	30
I1032840	N	N	N	100	100	2	N	N	15	200	20
I1032860	N	N	N	100	300	1.5	N	N	<10	150	15
I1032880	N	N	N	100	100	1.5	N	N	10	70	15
I1032900	N	N	N	100	100	1.5	N	N	10	100	15
I1032920	N	N	N	100	100	1.5	N	N	10	150	20
I1032940	N	N	N	70	70	1	N	N	<10	150	30
I1032960	N	N	N	100	700	2	N	N	10	100	20
I1032975	N	N	N	100	5,000	1.5	N	N	10	150	20
I1032995	N	N	N	100	150	2	N	N	<10	100	10
I1033015	N	N	N	100	300	1.5	N	N	15	150	30
I1033035	N	N	N	100	200	1.5	N	N	<10	150	50
I1033055	N	N	N	100	200	1.5	N	N	10	150	20
I1033075	N	N	N	100	200	1.5	N	N	10	200	20
I1033095	N	N	N	100	150	1.5	N	N	10	150	20
I1033115	N	N	N	150	200	2	N	N	15	200	30
I1033135	N	N	N	100	100	1.5	N	N	10	200	20
I1033155	N	N	N	100	300	1.5	N	N	10	150	20
I1033175	N	N	N	100	200	1.5	N	N	10	150	15
I1033195	N	N	N	100	150	1.5	N	N	10	200	20
I1033215	N	N	N	150	150	1.5	N	N	<10	150	30
I1033235	N	N	N	70	100	1	N	N	10	70	20
I1033255	N	N	N	70	100	1.5	N	N	10	100	15
I1033275	<.5	N	N	70	100	1	N	N	10	150	20
I1033295	N	N	N	70	70	<1	N	N	<10	50	15
I1033315	N	N	N	50	50	<1	N	N	N	15	10
I1033335	N	N	N	50	70	<1	N	N	N	50	20
I1033355	N	N	N	100	200	1.5	N	N	<10	100	30
I1033380	N	N	N	100	300	1	N	N	15	100	50

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I1032190	50	N	<50	50	5	<20	50	10	N
I1032210	30	N	50	70	<5	<20	50	500	N
I1032230	70	N	<50	100	<5	<20	50	100	N
I1032250	100	N	<50	50	N	N	50	15	N
I1032270	50	N	<50	30	N	N	50	20	N
I1032290	50	N	<50	50	<5	N	50	70	N
I1032310	30	N	N	30	<5	N	20	150	N
I1032330	30	N	<50	50	7	N	30	30	N
I1032350	50	N	<50	50	5	<20	50	20	N
I1032370	50	N	<50	50	<5	N	30	15	N
I1032390	70	N	<50	30	N	N	50	20	N
I1032410	50	N	<50	30	N	N	50	10	N
I1032430	50	N	<50	100	15	<20	70	700	N
I1032450	30	N	<50	70	10	<20	70	30	N
I1032470	30	N	<50	70	7	N	50	20	N
I1032490	20	N	<50	50	N	<20	50	50	N
I1032510	50	N	<50	50	5	N	70	500	N
I1032530	30	N	<50	100	10	N	50	70	N
I1032550	50	N	50	50	<5	<20	70	15	N
I1032570	70	N	<50	50	5	N	50	20	N
I1032590	50	N	<50	70	N	N	50	20	N
I1032610	50	N	<50	50	20	N	50	30	N
I1032630	50	N	<50	30	20	N	50	15	N
I1032660	15	N	N	30	7	N	30	N	N
I1032680	10	N	N	15	5	N	15	N	N
I1032700	10	N	N	15	<5	N	15	20	N
I1032720	30	N	<50	20	<5	<20	50	<10	N
I1032740	50	N	<50	30	N	<20	50	<10	N
I1032760	50	N	<50	50	7	<20	50	50	N
I1032780	50	N	N	30	<5	N	50	50	N
I1032800	30	N	<50	50	N	<20	70	10	N
I1032820	50	N	<50	30	N	N	50	300	N
I1032840	30	N	<50	70	<5	<20	70	20	N
I1032860	20	N	N	70	N	N	50	15	N
I1032880	20	N	<50	50	N	N	50	<10	N
I1032900	30	N	<50	50	N	N	30	15	N
I1032920	30	N	<50	50	N	<20	50	10	N
I1032940	30	N	N	30	5	N	30	70	N
I1032960	30	N	<50	30	N	<20	50	N	N
I1032975	70	N	<50	30	N	N	50	<10	N
I1032995	30	N	<50	20	N	<20	30	<10	N
I1033015	50	N	<50	20	5	<20	50	<10	N
I1033035	30	N	<50	20	<5	N	30	N	N
I1033055	30	N	<50	100	20	N	50	700	N
I1033075	50	N	<50	70	7	N	50	70	N
I1033095	30	N	<50	30	<5	N	50	30	N
I1033115	50	N	50	150	10	<20	70	30	N
I1033135	50	N	<50	70	7	N	50	30	N
I1033155	50	N	<50	50	<5	N	50	10	N
I1033175	50	N	<50	30	<5	N	50	15	N
I1033195	70	N	<50	30	5	N	70	20	N
I1033215	30	N	50	100	15	N	50	500	N
I1033235	30	N	<50	50	7	N	30	300	N
I1033255	30	N	<50	100	5	N	50	70	N
I1033275	50	N	<50	20	5	<20	50	50	N
I1033295	15	N	N	30	7	<20	30	500	N
I1033315	5	N	N	10	N	N	10	10	N
I1033335	20	N	N	10	N	N	15	50	N
I1033355	30	N	<50	70	N	N	15	30	N
I1033380	50	N	<50	70	N	N	50	10	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1032190	7	N	N	N	100	N	<10	N	100	.14	6
I1032210	10	N	N	N	150	N	<10	N	100	.1	6
I1032230	7	N	N	N	100	N	<10	N	100	.13	6
I1032250	7	N	N	N	100	N	<10	N	100	.1	6
I1032270	7	N	N	N	100	<20	<10	N	100	.12	6
I1032290	7	N	N	N	150	N	<10	N	100	.1	6
I1032310	5	N	N	N	70	20	N	N	70	.16	6
I1032330	7	N	N	N	100	<20	<10	N	100	.11	6
I1032350	10	N	N	N	150	<20	<10	N	150	.11	6
I1032370	7	N	N	N	100	<20	<10	N	100	.12	6
I1032390	7	N	N	N	100	N	<10	N	70	.1	6
I1032410	7	N	N	N	100	20	<10	N	100	.1	6
I1032430	10	N	N	N	100	N	10	N	100	.11	6
I1032450	7	N	N	N	100	<20	<10	N	150	.1	6
I1032470	7	N	N	N	70	N	N	N	100	.12	6
I1032490	10	N	N	N	100	N	<10	<200	100	.11	6
I1032510	7	N	N	N	100	<20	<10	N	70	.14	6
I1032530	7	N	N	N	100	30	<10	N	70	.15	6
I1032550	10	N	N	N	100	70	10	N	150	.1	6
I1032570	10	N	N	N	100	30	<10	N	100	.1	6
I1032590	5	N	N	N	100	N	<10	N	70	.12	6
I1032610	7	N	N	N	200	20	10	N	100	.033	6
I1032630	7	N	N	N	150	<20	<10	N	100	.12	6
I1032660	5	N	N	N	100	N	N	N	70	.071	6
I1032680	<5	N	N	N	50	N	N	N	50	.071	6
I1032700	<5	N	N	N	50	N	N	N	70	.06	6
I1032720	7	N	N	N	100	30	<10	N	150	.14	6
I1032740	10	N	N	N	100	20	10	N	150	.13	6
I1032760	7	N	N	N	100	N	<10	N	150	.1	6
I1032780	5	N	N	N	100	N	<10	N	100	.09	6
I1032800	7	N	N	N	150	N	10	N	150	.12	6
I1032820	7	N	N	N	100	N	<10	N	100	.11	6
I1032840	7	N	N	N	150	N	<10	<200	150	.11	6
I1032860	7	N	N	N	100	N	<10	N	100	.11	6
I1032880	5	N	N	N	100	N	<10	N	150	.11	6
I1032900	7	N	N	N	70	N	<10	N	100	.11	6
I1032920	7	N	N	N	70	N	<10	N	150	.15	6
I1032940	5	N	N	N	70	20	<10	N	70	.11	6
I1032960	10	N	N	N	100	N	<10	N	150	.13	6
I1032975	7	N	N	N	100	N	<10	N	100	.11	6
I1032995	7	N	N	N	150	<20	<10	N	100	.13	6
I1033015	7	N	N	N	100	50	<10	N	100	.11	6
I1033035	5	N	N	N	150	N	<10	N	100	.1	6
I1033055	7	N	N	N	100	<20	<10	N	150	.13	6
I1033075	7	N	N	N	100	20	10	N	150	.11	6
I1033095	7	N	N	N	100	N	<10	N	150	.11	6
I1033115	10	N	N	N	150	N	10	N	200	.11	6
I1033135	7	N	N	N	100	N	<10	N	100	.11	6
I1033155	7	N	N	N	100	N	<10	N	150	.18	6
I1033175	7	N	N	N	100	N	<10	N	150	.09	6
I1033195	7	N	N	N	100	<20	<10	N	100	.08	6
I1033215	7	N	N	N	150	<20	<10	N	100	.12	6
I1033235	5	N	N	N	70	N	N	N	70	.11	6
I1033255	7	N	N	N	100	N	<10	N	70	.11	6
I1033275	7	N	N	N	100	N	<10	N	70	.09	11
I1033295	5	N	N	N	70	30	N	N	70	.093	11
I1033315	<5	N	N	N	50	N	N	N	50	.061	11
I1033335	<5	N	N	N	50	N	N	N	50	.07	10
I1033355	7	N	N	N	100	N	<10	N	70	.15	10
I1033380	7	N	N	N	150	N	10	N	100	.15	10

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I103, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s
I1033405	37 41 16	89 17 13	.05	1.5	.2	N	N	.2
I1033415	37 41 16	89 17 13	.1	1	.2	N	N	.15
I1033430	37 41 16	89 17 13	<.05	1.5	.2	N	N	.1

Sample	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s
I1033405	N	N	N	50	50	N	N	N	N	10	5
I1033415	N	N	N	50	50	N	N	N	N	<10	<5
I1033430	N	N	N	30	30	N	N	N	N	<10	7

Sample	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s
I1033405	N	N	N	15	N	N	10	N	N
I1033415	N	N	N	10	N	N	10	N	N
I1033430	<5	N	N	20	5	N	15	500	N

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1033405	N	N	N	N	30	N	N	N	30	.04	10
I1033415	N	N	N	N	30	N	N	N	20	.03	10
I1033430	N	N	N	N	20	N	N	N	30	.05	10

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1041920	37 14 41	89 3 14	.07	3	1	.5	N	.5	N	N	N	100
I1041940	37 14 41	89 3 14	.05	5	.7	.5	N	.5	N	N	N	70
I1041960	37 14 41	89 3 14	.15	3	.5	.3	N	.3	N	N	N	70
I1041980	37 14 41	89 3 14	.05	5	.5	.3	N	.5	N	N	N	50
I1042000	37 14 41	89 3 14	<.05	2	.3	.2	N	.5	N	N	N	50
I1042020	37 14 41	89 3 14	N	5	.3	.3	N	.5	N	N	N	50
I1042090	37 14 41	89 3 14	.05	7	.7	.3	N	.5	N	N	N	70
I1042110	37 14 41	89 3 14	.07	7	.5	.2	N	.5	N	N	N	100
I1042130	37 14 41	89 3 14	.07	5	.7	.3	N	.5	N	N	N	100
I1042150	37 14 41	89 3 14	<.05	2	.5	.3	N	.3	N	N	N	70
I1042170	37 14 41	89 3 14	N	3	.3	.3	N	.5	N	N	N	50
I1042190	37 14 41	89 3 14	.07	7	1	.7	N	.5	N	N	N	100
I1042210	37 14 41	89 3 14	.15	5	.7	.3	N	.5	N	N	N	100
I1042250	37 14 41	89 3 14	.1	5	1	.3	N	.5	N	N	N	100
I1042290	37 14 41	89 3 14	.07	3	.7	.3	N	.5	N	N	N	100
I1042310	37 14 41	89 3 14	.1	5	.7	.5	N	.3	N	N	N	50
I1042330	37 14 41	89 3 14	.07	3	.5	.5	N	.3	N	N	N	50
I1042350	37 14 41	89 3 14	<.05	7	.7	1	N	.5	N	N	N	70
I1042410	37 14 41	89 3 14	N	3	.3	.2	N	.3	N	N	N	30
I1042430	37 14 41	89 3 14	<.05	2	.2	.3	N	.3	N	N	N	30
I1042450	37 14 41	89 3 14	N	2	.3	.2	N	.3	N	N	N	50
I1042470	37 14 41	89 3 14	.07	5	1	.5	N	.7	N	N	N	100
I1042490	37 14 41	89 3 14	.05	7	1	.7	N	.5	N	N	N	100
I1042510	37 14 41	89 3 14	.05	3	.7	.7	N	.3	N	N	N	70
I1042530	37 14 41	89 3 14	.07	5	1	.7	N	.3	N	N	N	70
I1042550	37 14 41	89 3 14	.1	7	1	.5	N	.5	N	N	N	100
I1042570	37 14 41	89 3 14	.07	3	.7	.3	N	.3	N	N	N	70
I1042590	37 14 41	89 3 14	.1	5	1	.5	N	.5	N	N	N	100
I1042598	37 14 41	89 3 14	.1	5	.7	.3	N	.5	N	N	N	100
I1042670	37 14 41	89 3 14	.1	5	1	.5	N	.3	N	N	N	70
I1042690	37 14 41	89 3 14	.07	3	.7	.3	N	.3	N	N	N	50
I1042710	37 14 41	89 3 14	.1	5	1	.5	N	.5	N	N	N	70
I1042730	37 14 41	89 3 14	.07	7	1	.5	N	.5	N	N	N	100
I1042750	37 14 41	89 3 14	.07	5	.7	<.2	N	.3	N	N	N	100
I1042770	37 14 41	89 3 14	.07	5	.7	<.2	N	.3	N	N	N	70
I1042790	37 14 41	89 3 14	.1	7	.7	.5	N	.5	N	N	N	70
I1042810	37 14 41	89 3 14	.1	5	1	.5	N	.5	N	N	N	70
I1042830	37 14 41	89 3 14	.15	7	1	.3	N	.5	N	N	N	100
I1042850	37 14 41	89 3 14	.05	5	.7	.3	N	.3	N	N	N	50
I1042870	37 14 41	89 3 14	.15	3	.7	.3	N	.5	N	N	N	100
I1042890	37 14 41	89 3 14	.1	7	1	.5	N	.7	N	N	N	100
I1042910	37 14 41	89 3 14	.07	3	.7	.2	N	.3	N	N	N	70
I1042930	37 14 41	89 3 14	.07	5	1	.3	N	.5	N	N	N	100
I1042950	37 14 41	89 3 14	.15	5	1	.3	N	.7	N	N	N	100
I1042970	37 14 41	89 3 14	.1	5	1	.2	N	.5	N	N	N	100
I1042990	37 14 41	89 3 14	.07	3	.7	.3	N	.5	N	N	N	70
I1043010	37 14 41	89 3 14	.05	5	.7	.2	N	.3	N	N	N	70
I1043030	37 14 41	89 3 14	.07	5	.5	.3	N	.5	N	N	N	100
I1043050	37 14 41	89 3 14	.1	5	1	.3	N	.5	N	N	N	100
I1043070	37 14 41	89 3 14	.15	5	.5	.2	N	.3	N	N	N	70
I1043090	37 14 41	89 3 14	.15	5	.7	.3	N	.5	N	N	N	100
I1043110	37 14 41	89 3 14	.07	3	1	.5	N	.3	N	N	N	70
I1043130	37 14 41	89 3 14	.5	5	1	.3	N	.5	N	N	N	100
I1043150	37 14 41	89 3 14	.5	3	.5	.2	N	.3	N	N	N	70
I1043170	37 14 41	89 3 14	.07	3	.5	.2	N	.3	N	N	N	70
I1043190	37 14 41	89 3 14	.15	3	1	.3	N	.5	N	N	N	50
I1043210	37 14 41	89 3 14	.1	5	.7	.3	N	.3	N	N	N	70
I1043230	37 14 41	89 3 14	.1	5	1	.5	N	.5	N	N	N	100
I1043250	37 14 41	89 3 14	.3	3	.7	.2	N	.3	N	N	N	70
I1043270	37 14 41	89 3 14	.15	5	1	.5	N	.3	N	N	N	70

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1041920	200	1.5	N	N	10	100	30	50	N	<50	70	N	<20
I1041940	200	1.5	N	N	10	100	30	50	N	<50	50	N	<20
I1041960	200	1.5	N	N	10	50	50	20	N	<50	70	N	<20
I1041980	300	1	N	N	10	100	50	30	N	<50	50	<5	N
I1042000	150	1	N	N	N	70	15	10	N	N	20	N	N
I1042020	100	<1	N	N	10	50	20	15	N	N	20	N	N
I1042090	2,000	1.5	N	N	10	100	50	50	N	<50	70	<5	N
I1042110	200	1.5	N	N	20	100	70	30	N	<50	70	7	<20
I1042130	500	1.5	N	N	10	200	50	50	N	<50	50	<5	N
I1042150	300	1	N	N	<10	50	15	15	N	N	30	N	N
I1042170	200	<1	N	N	<10	50	15	10	N	<50	15	N	N
I1042190	5,000	1.5	N	N	20	200	300	50	N	<50	100	N	N
I1042210	3,000	2	N	N	10	100	30	30	N	<50	50	N	<20
I1042250	200	1.5	N	N	10	150	30	30	N	<50	50	N	N
I1042290	700	2	N	N	15	150	20	30	N	<50	70	N	<20
I1042310	500	1.5	N	N	15	150	50	50	N	<50	500	<5	N
I1042330	500	1	N	N	10	50	30	20	N	<50	100	5	<20
I1042350	200	1	N	N	15	200	20	70	N	<50	70	N	<20
I1042410	70	N	N	N	<10	70	10	5	N	N	15	N	N
I1042430	70	N	N	N	N	70	10	<5	N	N	20	N	N
I1042450	100	N	N	N	N	50	20	5	N	N	20	N	N
I1042470	>5,000	1.5	N	N	10	150	30	50	N	<50	70	N	<20
I1042490	200	2	N	N	15	200	50	70	N	<50	50	N	N
I1042510	700	1	N	N	10	70	15	15	N	<50	30	N	N
I1042530	150	1.5	N	N	10	100	70	70	N	N	30	N	N
I1042550	200	1.5	N	N	15	100	30	50	N	<50	70	N	<20
I1042570	70	1	N	N	<10	70	20	20	N	N	50	N	N
I1042590	150	1.5	N	N	10	100	20	50	N	<50	70	N	N
I1042598	100	1	N	N	10	70	30	30	N	<50	70	<5	N
I1042670	150	1	N	N	15	150	300	50	N	<50	50	<5	<20
I1042690	200	1	N	N	10	70	15	30	N	N	30	N	N
I1042710	100	1	N	N	15	150	30	70	N	<50	70	N	N
I1042730	200	1.5	N	N	20	150	70	70	N	<50	100	7	N
I1042750	150	1	N	N	10	70	50	15	N	N	70	N	N
I1042770	200	1	N	N	10	100	100	20	N	N	50	N	N
I1042790	150	1	N	N	15	200	30	100	N	<50	50	N	N
I1042810	50	1.5	N	N	15	150	20	70	N	<50	100	N	N
I1042830	200	1.5	N	N	20	150	50	50	N	50	150	<5	<20
I1042850	100	1	N	N	10	100	30	50	N	<50	150	5	N
I1042870	150	1.5	N	N	10	100	30	30	N	<50	100	N	<20
I1042890	300	2	N	N	10	100	30	70	N	50	70	5	<20
I1042910	500	1	N	N	<10	70	20	50	N	<50	20	<5	N
I1042930	200	1.5	N	N	10	100	50	30	N	<50	50	5	N
I1042950	200	1.5	N	N	10	100	50	30	N	50	100	<5	<20
I1042970	100	2	N	N	15	100	30	20	N	<50	70	N	N
I1042990	500	1.5	N	N	<10	50	100	30	N	<50	30	N	N
I1043010	100	1	N	N	<10	100	15	20	N	<50	30	N	N
I1043030	300	1.5	N	N	10	70	20	30	N	<50	30	N	N
I1043050	150	1.5	N	N	<10	100	15	30	N	<50	150	<5	<20
I1043070	100	<1	N	N	10	50	20	30	N	N	50	5	N
I1043090	100	1	N	N	15	100	20	30	N	<50	20	N	<20
I1043110	100	1	N	N	<10	100	50	50	N	<50	50	<5	N
I1043130	150	1.5	N	N	10	150	20	30	N	<50	100	<5	N
I1043150	100	<1	N	N	<10	70	15	15	N	N	30	10	N
I1043170	100	1	N	N	<10	50	20	20	N	N	20	<5	N
I1043190	200	1	N	N	<10	100	20	50	N	<50	20	5	N
I1043210	100	1.5	N	N	10	100	15	30	N	<50	30	N	N
I1043230	500	1.5	N	N	20	200	50	50	N	<50	50	5	N
I1043250	100	1.5	N	N	10	100	30	20	N	N	20	10	N
I1043270	150	1	N	N	10	100	50	50	N	<50	50	10	N

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1041920	50	10	N	10	N	N	N	100	50	10	N	100	.09	4
I1041940	50	10	N	7	N	N	N	100	N	<10	N	100	.084	4
I1041960	30	<10	N	5	N	N	N	100	50	<10	N	70	.07	4
I1041980	50	10	N	7	N	N	N	100	100	<10	N	70	.07	4
I1042000	15	N	N	<5	N	N	N	70	<20	N	N	200	.042	4
I1042020	70	<10	N	<5	N	N	N	70	30	N	N	300	.05	4
I1042090	50	10	N	5	N	<100	N	100	70	<10	<200	150	.08	4
I1042110	70	10	N	7	N	N	N	100	300	<10	N	100	.08	4
I1042130	50	<10	N	7	N	N	N	150	50	<10	N	100	.11	4
I1042150	20	N	N	<5	N	N	N	50	N	N	N	100	.08	4
I1042170	20	N	N	<5	N	N	N	70	N	<10	N	700	.05	4
I1042190	70	10	N	7	N	<100	N	150	N	<10	N	100	.084	4
I1042210	50	10	N	7	N	N	N	100	N	<10	N	150	.084	4
I1042250	50	<10	N	7	N	N	N	100	N	10	N	100	.12	4
I1042290	50	<10	N	7	N	<100	N	100	N	<10	N	100	.084	4
I1042310	30	20	N	5	N	N	N	70	N	<10	N	70	.08	4
I1042330	30	<10	N	5	N	N	N	70	N	<10	N	100	.052	5
I1042350	50	10	N	7	N	100	N	100	N	10	N	150	.07	5
I1042410	15	N	N	<5	N	N	N	50	N	N	N	200	.03	5
I1042430	10	N	N	<5	N	N	N	70	N	N	N	500	.03	5
I1042450	10	N	N	<5	N	N	N	50	N	N	N	500	.034	5
I1042470	50	<10	N	7	N	<100	N	100	N	10	N	150	.09	5
I1042490	70	10	N	10	N	<100	N	150	N	10	N	100	.11	5
I1042510	30	N	N	5	N	N	N	70	N	N	N	100	.052	5
I1042530	50	30	N	5	N	N	N	70	N	N	N	70	.06	5
I1042550	70	70	N	10	N	N	N	150	N	<10	N	70	.1	5
I1042570	50	N	N	5	N	N	N	70	N	<10	N	100	.09	5
I1042590	50	10	N	10	N	<100	N	100	N	<10	N	100	.092	5
I1042598	70	<10	N	7	N	N	N	100	N	<10	N	100	.084	6
I1042670	70	<10	N	7	N	<100	N	100	200	<10	N	150	.1	6
I1042690	50	N	N	5	N	N	N	70	<20	<10	N	100	.08	6
I1042710	70	10	N	7	N	N	N	100	N	<10	N	70	.08	6
I1042730	70	10	N	7	N	N	N	100	20	<10	N	70	.12	6
I1042750	50	15	N	5	N	N	N	70	N	<10	N	200	.12	6
I1042770	50	30	N	5	N	N	N	70	N	<10	N	300	.11	6
I1042790	70	20	N	7	N	<100	N	100	N	10	N	150	.11	6
I1042810	50	10	N	7	N	200	N	100	N	<10	N	150	.11	6
I1042830	100	20	N	10	N	<100	N	100	50	10	N	200	.092	6
I1042850	50	70	N	5	N	N	N	50	N	<10	N	70	.11	6
I1042870	50	N	N	10	N	<100	N	100	<20	10	N	100	.1	6
I1042890	50	10	N	10	N	N	N	150	50	10	N	100	.09	6
I1042910	20	<10	N	5	N	N	N	70	20	<10	N	50	.11	6
I1042930	70	10	N	7	N	500	N	100	N	<10	N	100	.11	6
I1042950	50	70	N	7	N	200	N	100	N	10	N	200	.13	6
I1042970	50	<10	N	5	N	100	N	70	<20	<10	N	100	.12	7
I1042990	30	<10	N	7	N	<100	N	100	N	<10	N	70	.08	7
I1043010	30	N	N	5	N	N	N	70	N	N	N	70	.073	7
I1043030	50	15	N	7	N	<100	N	100	20	<10	N	150	.09	7
I1043050	50	10	N	7	N	100	N	100	30	<10	N	100	.11	7
I1043070	50	15	N	5	N	<100	N	70	70	N	N	70	.09	7
I1043090	50	10	N	7	N	300	N	100	N	<10	N	100	.1	7
I1043110	70	10	N	5	N	N	N	100	N	<10	N	70	.11	7
I1043130	50	10	N	7	N	150	N	100	20	<10	N	100	.15	7
I1043150	50	<10	N	5	N	150	N	70	20	N	N	70	.17	7
I1043170	30	<10	N	5	N	<100	N	70	N	<10	N	70	.13	7
I1043190	20	<10	N	5	N	1,000	N	100	N	<10	<200	70	.11	7
I1043210	30	50	N	7	N	100	N	100	20	<10	N	70	.3	7
I1043230	50	30	N	7	N	<100	N	100	70	<10	N	70	.15	7
I1043250	70	N	N	5	N	N	N	100	100	<10	<200	100	.65	7
I1043270	70	10	N	7	N	<100	N	100	50	<10	<200	70	.22	7

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct.	Fe-pct.	Mg-pct.	Na-pct.	P-pct.	Ti-pct.	Ag-ppm	As-ppm	Au-ppm	B-ppm
			s	s	s	s	s	s	s	s	s	s
I1043290	37 14 41	89 3 14	.05	5	1.5	.5	N	.5	N	N	N	100
I1043310	37 14 41	89 3 14	.05	3	1.5	.3	N	.5	N	N	N	100
I1043330	37 14 41	89 3 14	.15	5	1.5	.5	N	.5	N	N	N	100
I1043350	37 14 41	89 3 14	.07	2	.7	.3	N	.5	N	N	N	70
I1043370	37 14 41	89 3 14	.07	3	1	.5	N	.5	N	N	N	100
I1043390	37 14 41	89 3 14	.1	5	1	.3	N	.5	N	N	N	100
I1043410	37 14 41	89 3 14	.07	5	1	.3	N	.5	N	N	N	70
I1043430	37 14 41	89 3 14	.05	5	1.5	.5	N	.3	N	N	N	70
I1043450	37 14 41	89 3 14	.15	5	1.5	.5	N	.5	N	N	N	100
I1043470	37 14 41	89 3 14	.1	5	1	.3	N	.5	N	N	N	100
I1043490	37 14 41	89 3 14	.1	5	1	.3	N	.5	N	N	N	100
I1043510	37 14 41	89 3 14	.1	3	1	.5	N	.3	N	N	N	100
I1043530	37 14 41	89 3 14	.05	5	1	.3	N	.3	N	N	N	70
I1043550	37 14 41	89 3 14	.1	7	1	.2	N	.5	N	N	N	100
I1043570	37 14 41	89 3 14	<.05	5	1	.3	N	.5	N	N	N	100
I1043590	37 14 41	89 3 14	.07	3	1	.5	N	.5	N	N	N	70
I1043610	37 14 41	89 3 14	.2	5	.7	.3	N	.5	N	N	N	70
I1043630	37 14 41	89 3 14	.15	5	1.5	.3	N	.3	N	N	N	70
I1043650	37 14 41	89 3 14	.2	3	1	.5	N	.3	N	N	N	70
I1043670	37 14 41	89 3 14	.07	5	1.5	.3	N	.5	N	N	N	100
I1043690	37 14 41	89 3 14	.07	5	1	.3	N	.5	N	N	N	70
I1043710	37 14 41	89 3 14	.15	2	.3	<.2	N	.2	N	N	N	50
I1043735	37 14 41	89 3 14	.07	3	.5	.2	N	.3	N	N	N	50
I1043760	37 14 41	89 3 14	.1	1.5	.3	<.2	N	.3	N	N	N	30
I1043780	37 14 41	89 3 14	.1	1	.2	.2	N	.2	N	N	N	30
I1043805	37 14 41	89 3 14	.5	1	.2	<.2	N	.2	N	N	N	30
I1043840	37 14 41	89 3 14	.3	2	.3	.2	N	.3	N	N	N	50
I1043860	37 14 41	89 3 14	.1	3	.3	.2	N	.3	N	N	N	30
I1043880	37 14 41	89 3 14	.07	5	.5	.7	N	.5	N	N	N	70
I1043900	37 14 41	89 3 14	<.05	2	.3	1.5	N	.5	N	N	N	30
I1043920	37 14 41	89 3 14	<.05	3	.3	1	N	.5	N	N	N	50
I1043940	37 14 41	89 3 14	<.05	3	.3	1	N	.5	N	N	N	50
I1043960	37 14 41	89 3 14	<.05	5	.5	1.5	N	.5	N	N	N	70
I1043990	37 14 41	89 3 14	<.05	2	.2	1	N	.3	N	N	N	50
I1044020	37 14 41	89 3 14	.05	3	.5	2	N	.5	N	N	N	50
I1044040	37 14 41	89 3 14	.07	3	.5	1.5	N	.5	N	N	N	70
I1044070	37 14 41	89 3 14	.05	2	.3	1	N	.5	N	N	N	70
I1044100	37 14 41	89 3 14	<.05	2	.5	1	N	.3	N	N	N	50
I1044130	37 14 41	89 3 14	.05	3	.7	.7	N	.5	N	N	N	100
I1044160	37 14 41	89 3 14	.05	3	.5	1	N	.7	N	N	N	70
I1044190	37 14 41	89 3 14	.05	5	.5	1	N	.5	N	N	N	70
I1044210	37 14 41	89 3 14	<.05	3	.5	1	N	.5	N	N	N	100
I1044230	37 14 41	89 3 14	.07	5	.5	1.5	N	.7	N	N	N	150
I1044250	37 14 41	89 3 14	.05	3	.5	1	N	.5	N	N	N	100
I1044270	37 14 41	89 3 14	<.05	3	.7	1	N	.5	N	N	N	100
I1044290	37 14 41	89 3 14	.05	7	.7	1	N	.7	N	N	N	150
I1044310	37 14 41	89 3 14	.07	5	.7	1	N	.5	N	N	N	100
I1044330	37 14 41	89 3 14	.07	3	.5	.7	N	.5	N	N	N	100
I1044350	37 14 41	89 3 14	<.05	3	.5	1	N	.5	N	N	N	100
I1044370	37 14 41	89 3 14	.07	7	.7	1	N	.7	N	N	N	100
I1044389	37 14 41	89 3 14	<.05	10	.7	1	N	.7	N	N	N	100
I1044455	37 14 41	89 3 14	.1	3	.5	.3	N	.5	N	N	N	70
I1044475	37 14 41	89 3 14	.05	3	.3	<.2	N	.3	N	N	N	50
I1044495	37 14 41	89 3 14	.1	5	.7	.5	N	.7	N	N	N	100
I1044515	37 14 41	89 3 14	.07	3	.3	.2	N	.5	N	N	N	70
I1044535	37 14 41	89 3 14	.07	2	.3	<.2	N	.5	N	N	N	50

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1043290	200	1.5	N	N	10	100	30	30	N	<50	50	7	<20
I1043310	150	2	N	N	10	70	20	30	N	<50	50	N	N
I1043330	200	1.5	N	N	20	70	30	30	N	<50	70	N	<20
I1043350	150	1.5	N	N	<10	100	20	30	N	<50	30	N	N
I1043370	200	1.5	N	N	10	150	70	70	N	<50	50	<5	N
I1043390	200	2	N	N	10	100	20	50	N	<50	70	<5	N
I1043410	150	1.5	N	N	10	70	70	30	N	<50	50	5	N
I1043430	150	1.5	N	N	10	70	15	70	N	<50	50	5	N
I1043450	200	2	N	N	15	100	30	50	N	<50	70	5	N
I1043470	150	1.5	N	N	15	100	50	20	N	<50	100	<5	N
I1043490	300	2	N	N	10	200	20	20	N	<50	50	5	<20
I1043510	150	1	N	N	10	70	30	50	N	<50	20	N	N
I1043530	150	1	N	N	10	100	20	30	N	<50	50	<5	N
I1043550	500	2	N	N	10	150	30	15	N	50	70	<5	<20
I1043570	150	1.5	N	N	10	100	20	30	N	<50	50	5	<20
I1043590	200	1.5	N	N	10	150	15	50	N	<50	30	N	N
I1043610	150	1	N	N	15	100	50	20	N	<50	100	15	N
I1043630	100	1	N	N	15	100	50	30	N	<50	150	10	N
I1043650	150	1	N	N	10	70	20	20	N	<50	100	<5	N
I1043670	300	1.5	N	N	10	150	20	30	N	<50	100	5	N
I1043690	100	1	N	N	15	50	20	30	N	<50	50	<5	N
I1043710	700	N	N	N	N	<10	15	<5	N	N	70	N	N
I1043735	100	<1	N	N	<10	30	15	20	N	N	100	N	N
I1043760	200	N	N	N	N	15	10	5	N	N	15	N	N
I1043780	70	N	N	N	N	<10	10	<5	N	N	15	N	N
I1043805	50	N	N	N	N	<10	30	N	N	N	20	N	N
I1043840	150	N	N	N	N	15	15	15	N	N	30	<5	N
I1043860	500	<1	N	N	<10	30	15	15	N	N	50	5	N
I1043880	150	1	N	N	10	70	20	30	N	<50	30	5	N
I1043900	150	N	N	N	<10	50	15	20	N	<50	20	N	N
I1043920	100	N	N	N	<10	30	50	15	N	N	30	N	N
I1043940	200	1	N	N	<10	20	15	20	N	N	50	N	N
I1043960	300	1	N	N	10	50	30	20	N	N	70	N	N
I1043990	300	<1	N	N	<10	30	15	15	N	N	30	N	N
I1044020	500	<1	N	N	<10	100	20	30	N	<50	50	N	N
I1044040	300	1	N	N	10	70	20	30	N	<50	50	N	N
I1044070	300	1	N	N	10	50	15	15	N	N	70	N	N
I1044100	200	<1	N	N	<10	50	10	20	N	N	50	N	N
I1044130	300	1.5	N	N	10	70	30	30	N	<50	70	N	N
I1044160	500	1	N	N	10	70	30	30	N	<50	70	N	N
I1044190	500	1	N	N	10	70	20	30	N	<50	100	N	N
I1044210	700	1.5	N	N	10	50	30	30	N	<50	100	N	N
I1044230	700	1.5	N	N	10	100	30	50	N	50	150	N	N
I1044250	700	1	N	N	<10	70	20	30	N	<50	100	N	N
I1044270	500	1.5	N	N	10	70	15	30	N	<50	100	N	N
I1044290	500	2	N	N	10	100	50	30	N	50	150	N	N
I1044310	300	1.5	N	N	10	70	30	50	N	<50	150	<5	N
I1044330	300	1	N	N	15	50	30	15	N	<50	100	N	N
I1044350	700	1	N	N	10	50	100	20	N	<50	70	5	N
I1044370	500	1.5	N	N	30	100	200	30	N	50	100	150	N
I1044389	500	1.5	N	N	20	150	200	10	N	<50	100	150	N
I1044455	200	1	N	N	10	50	20	15	N	N	30	5	N
I1044475	100	<1	N	N	<10	20	15	15	N	N	200	<5	N
I1044495	300	1.5	N	N	10	50	50	20	N	<50	50	5	N
I1044515	200	<1	N	N	<10	20	30	15	N	N	30	7	N
I1044535	70	<1	N	N	<10	20	10	10	N	N	50	N	N

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I104, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1043290	50	<10	N	7	N	N	N	100	700	<10	<200	70	.13	7
I1043310	30	<10	N	7	N	N	N	100	N	N	N	100	.12	7
I1043330	70	15	N	7	N	N	N	100	150	<10	N	100	.11	7
I1043350	50	<10	N	7	N	N	N	70	N	<10	N	100	.12	7
I1043370	50	1,000	N	10	N	<100	N	70	70	<10	N	100	.14	7
I1043390	50	70	N	10	N	N	N	100	N	<10	N	100	.14	7
I1043410	50	70	N	7	N	N	N	70	50	<10	N	70	.12	7
I1043430	30	10	N	7	N	N	N	70	300	<10	N	70	.12	7
I1043450	70	10	N	7	N	<100	N	100	100	<10	N	150	.14	7
I1043470	50	10	N	7	N	<100	N	100	50	<10	<200	100	.11	7
I1043490	50	70	N	7	N	<100	N	150	70	<10	<200	100	.11	7
I1043510	30	50	N	7	N	N	N	100	30	<10	<200	70	.12	7
I1043530	30	20	N	7	N	N	N	70	50	<10	N	70	.14	7
I1043550	50	N	N	10	N	N	N	100	N	<10	<200	100	.091	7
I1043570	50	<10	N	7	N	N	N	100	150	<10	N	150	.1	7
I1043590	30	<10	N	7	N	N	N	100	200	<10	N	70	.08	7
I1043610	70	15	N	5	N	<100	N	150	N	<10	<200	150	.48	7
I1043630	70	30	N	5	N	<100	N	70	150	<10	200	70	.21	7
I1043650	30	15	N	5	N	<100	N	70	N	<10	200	100	.2	7
I1043670	70	50	N	7	N	N	N	100	<20	<10	N	150	.1	7
I1043690	30	150	N	5	N	N	N	50	100	<10	200	70	.12	7
I1043710	10	N	N	N	N	N	N	20	70	N	<200	30	.13	7
I1043735	20	<10	N	<5	N	N	N	50	50	<10	N	100	.09	7
I1043760	15	<10	N	N	N	N	N	30	N	N	N	70	.062	7
I1043780	15	N	N	N	N	N	N	20	N	N	N	30	.06	7
I1043805	15	N	N	N	N	N	N	20	N	N	N	30	.12	7
I1043840	20	15	N	<5	N	N	N	30	100	N	N	50	.08	7
I1043860	30	N	N	5	N	N	N	50	500	N	N	50	.094	7
I1043880	50	20	N	7	N	N	N	70	30	<10	N	70	.1	7
I1043900	15	<10	N	<5	N	N	N	70	<20	<10	N	70	.09	7
I1043920	15	<10	N	<5	N	N	N	50	30	N	N	70	.11	7
I1043940	20	N	N	5	N	<100	N	70	70	<10	N	70	.11	7
I1043960	30	150	N	7	N	N	N	100	<20	10	N	100	.082	7
I1043990	10	N	N	<5	N	<100	N	70	N	<10	N	70	.044	7
I1044020	20	<10	N	5	N	<100	N	70	<20	10	N	100	.06	7
I1044040	30	10	N	7	N	N	N	100	N	<10	N	100	.07	7
I1044070	20	<10	N	5	N	N	N	100	70	<10	N	100	.062	7
I1044100	15	N	N	<5	N	N	N	70	N	N	N	70	.06	7
I1044130	50	<10	N	7	N	N	N	150	N	10	N	70	.08	7
I1044160	30	<10	N	5	N	N	N	100	<20	<10	N	100	.08	7
I1044190	50	<10	N	5	N	N	N	150	<20	<10	N	70	.044	7
I1044210	50	<10	N	7	N	N	N	200	20	<10	N	100	.07	7
I1044230	50	<10	N	7	N	N	N	200	N	10	N	100	.062	7
I1044250	30	10	N	7	N	N	N	200	<20	<10	<200	70	.09	7
I1044270	30	<10	N	7	N	<100	N	150	<20	<10	N	70	.08	7
I1044290	50	N	N	10	N	<100	N	200	30	10	N	100	.094	7
I1044310	50	10	N	7	N	N	N	150	20	<10	N	70	.07	7
I1044330	70	N	N	5	N	N	N	150	N	<10	N	70	.072	7
I1044350	100	10	N	7	N	<100	N	300	<20	<10	N	70	.09	10
I1044370	150	20	N	7	N	N	N	500	N	10	N	150	.08	10
I1044389	150	N	N	10	N	N	N	300	N	10	<200	150	.094	10
I1044455	50	<10	N	5	N	N	N	100	20	<10	N	100	.06	10
I1044475	20	N	N	<5	N	N	N	70	100	N	N	70	.07	10
I1044495	70	N	N	7	N	N	N	150	N	10	N	150	.07	10
I1044515	30	N	N	<5	N	N	N	100	N	N	N	70	.05	10
I1044535	20	N	N	<5	N	<100	N	70	<20	N	N	70	.052	10

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.

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

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1051930	37 59 19	88 46 53	N	1	.1	N	N	.3	N	N	N	30
I1051950	37 59 19	88 46 53	N	.7	.07	N	N	.5	N	N	N	30
I1052010	37 59 19	88 46 53	N	.5	.05	N	N	.5	N	N	N	20
I1052030	37 59 19	88 46 53	<.05	1	.1	N	N	.3	N	N	N	30
I1052200	37 59 19	88 46 53	.07	5	.7	.3	N	.7	N	N	N	100
I1052220	37 59 19	88 46 53	.07	5	.7	.3	N	.5	N	N	N	100
I1052240	37 59 19	88 46 53	.05	2	.7	.5	N	.3	N	N	N	70
I1052260	37 59 19	88 46 53	.07	3	.7	.3	N	.7	N	N	N	100
I1052280	37 59 19	88 46 53	<.05	2	.3	.5	N	.3	N	N	N	70
I1052470	37 59 19	88 46 53	.07	3	.7	.2	N	.5	N	N	N	100
I1052490	37 59 19	88 46 53	.07	2	.5	.5	N	.3	N	N	N	70
I1052510	37 59 19	88 46 53	.05	2	.3	.5	N	.3	N	N	N	50
I1052530	37 59 19	88 46 53	<.05	1.5	.2	.5	N	.5	N	N	N	50
I1052550	37 59 19	88 46 53	N	1	.15	.2	N	.2	N	N	N	20
I1052570	37 59 19	88 46 53	.07	2	.3	.5	N	.5	N	N	N	50
I1052590	37 59 19	88 46 53	.07	2	.7	.3	N	.5	N	N	N	70
I1052610	37 59 19	88 46 53	.1	3	.7	.2	N	.5	N	N	N	100
I1052630	37 59 19	88 46 53	.1	5	1.5	.5	N	.5	N	N	N	70
I1052650	37 59 19	88 46 53	.1	3	1	.5	N	.7	N	N	N	100
I1052670	37 59 19	88 46 53	.07	5	1.5	.5	N	.5	N	N	N	70
I1052690	37 59 19	88 46 53	.1	5	1	.3	N	.7	N	N	N	100
I1052710	37 59 19	88 46 53	<.05	1.5	.3	.3	N	.5	N	N	N	50
I1052860	37 59 19	88 46 53	.07	2	.5	.2	N	.5	N	N	N	50
I1052880	37 59 19	88 46 53	.07	2	.5	.3	N	.5	N	N	N	50
I1052900	37 59 19	88 46 53	.05	2	.5	.5	N	.5	N	N	N	70
I1052920	37 59 19	88 46 53	<.05	1.5	.3	.3	N	.5	N	N	N	70
I1052945	37 59 19	88 46 53	.07	5	1	.5	N	.5	N	N	N	100
I1052965	37 59 19	88 46 53	<.05	2	.7	.5	N	.5	N	N	N	50
I1052985	37 59 19	88 46 53	.05	2	.5	.3	N	.5	N	N	N	70
I1053005	37 59 19	88 46 53	.07	3	.7	.3	N	.5	N	N	N	100
I1053025	37 59 19	88 46 53	.05	2	.5	.5	N	.5	N	N	N	100
I1053045	37 59 19	88 46 53	.07	1.5	.3	.3	N	.5	N	N	N	70
I1053065	37 59 19	88 46 53	.07	2	.5	.2	N	.3	N	N	N	50
I1053085	37 59 19	88 46 53	.15	5	1	.3	N	.5	N	N	N	100
I1053105	37 59 19	88 46 53	.1	3	.7	.3	N	.5	N	N	N	100
I1053125	37 59 19	88 46 53	.05	1.5	.5	.3	N	.3	N	N	N	50
I1053145	37 59 19	88 46 53	.15	5	1	.3	N	.7	N	N	N	150
I1053165	37 59 19	88 46 53	.1	3	.7	.3	N	.5	N	N	N	100
I1053185	37 59 19	88 46 53	.1	3	1	.3	N	.5	N	N	N	100
I1053205	37 59 19	88 46 53	.1	5	1	.2	N	.5	N	N	N	100
I1053225	37 59 19	88 46 53	.1	3	1	.7	N	.5	N	N	N	100
I1053245	37 59 19	88 46 53	.07	5	1.5	.5	N	.5	N	N	N	100
I1053265	37 59 19	88 46 53	<.05	3	1	.3	N	.5	N	N	N	100
I1053285	37 59 19	88 46 53	.1	5	1	1	N	.5	N	N	N	100
I1053305	37 59 19	88 46 53	.07	3	.7	.5	N	.5	N	N	N	100
I1053325	37 59 19	88 46 53	.1	5	.5	.3	N	.5	N	N	N	100
I1053345	37 59 19	88 46 53	.1	3	.7	.5	N	.3	N	N	N	70
I1053365	37 59 19	88 46 53	1	3	1	.3	N	.3	N	N	N	100
I1053385	37 59 19	88 46 53	1.5	3	1	.5	N	.3	N	N	N	70
I1053405	37 59 19	88 46 53	.2	2	.5	.3	N	.3	N	N	N	70
I1053425	37 59 19	88 46 53	.15	3	.3	.2	N	.2	N	N	N	70
I1053445	37 59 19	88 46 53	.1	5	.5	.3	N	.7	N	N	N	100
I1053465	37 59 19	88 46 53	.3	5	1	.3	N	.5	N	N	N	100
I1053485	37 59 19	88 46 53	.2	5	.7	.3	N	.5	N	N	N	70
I1053505	37 59 19	88 46 53	.2	.3	.5	.2	N	.3	N	N	N	70
I1053525	37 59 19	88 46 53	.3	3	.5	.3	N	.3	N	N	N	70
I1053545	37 59 19	88 46 53	.15	3	.3	.2	N	.5	N	N	N	70
I1053565	37 59 19	88 46 53	.07	3	.7	.3	N	.3	N	N	N	100
I1053585	37 59 19	88 46 53	.5	5	.7	.3	N	.5	N	N	N	70
I1053605	37 59 19	88 46 53	.7	2	.3	.7	N	.3	N	N	N	50

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1051930	200	N	N	N	N	15	7	<5	N	N	<10	N	N
I1051950	100	N	N	N	N	<10	15	<5	N	N	N	N	N
I1052010	150	N	N	N	N	50	50	N	N	N	N	N	N
I1052030	150	N	N	N	N	10	7	N	N	N	10	N	N
I1052200	300	1.5	N	N	<10	150	50	50	N	<50	15	<5	N
I1052220	200	1.5	N	N	10	100	50	50	N	<50	20	5	<20
I1052240	150	1	N	N	10	70	30	30	N	<50	15	<5	N
I1052260	700	1.5	N	N	<10	150	20	50	N	<50	20	5	N
I1052280	300	<1	N	N	10	50	20	15	N	<50	15	N	N
I1052470	700	1.5	N	N	<10	150	15	30	N	<50	30	N	N
I1052490	500	1	N	N	<10	100	30	30	N	<50	20	<5	N
I1052510	300	<1	N	N	N	50	20	20	N	N	15	N	N
I1052530	500	<1	N	N	N	30	15	10	N	N	15	N	N
I1052550	200	N	N	N	N	15	10	5	N	N	<10	N	N
I1052570	200	<1	N	N	<10	50	50	15	N	N	15	N	N
I1052590	150	1.5	N	N	<10	50	30	30	N	<50	20	N	N
I1052610	150	2	N	N	<10	70	20	20	N	<50	30	N	<20
I1052630	300	1.5	N	N	10	200	30	70	N	<50	50	N	N
I1052650	200	2	N	N	<10	100	30	30	N	<50	30	N	N
I1052670	300	1.5	N	N	10	100	15	50	N	<50	50	N	N
I1052690	300	1.5	N	N	10	150	15	50	N	<50	30	N	<20
I1052710	200	N	N	N	N	50	10	10	N	N	10	N	N
I1052860	100	1	N	N	<10	50	15	30	N	N	20	N	N
I1052880	150	1	N	N	<10	200	20	30	N	<50	30	N	N
I1052900	200	1	N	N	N	70	50	30	N	<50	15	N	N
I1052920	70	<1	N	N	N	50	15	15	N	N	10	N	N
I1052945	150	1.5	N	N	10	200	20	70	N	<50	50	N	N
I1052965	100	<1	N	N	<10	70	50	30	N	<50	10	N	N
I1052985	100	1.5	N	N	<10	50	15	20	N	<50	10	N	N
I1053005	70	1.5	N	N	<10	100	15	30	N	<50	20	N	N
I1053025	200	1	N	N	<10	70	15	30	N	<50	10	N	N
I1053045	150	<1	N	N	N	70	7	10	N	N	15	N	N
I1053065	70	1.5	N	N	<10	50	15	20	N	N	20	N	N
I1053085	700	2	N	N	20	150	70	30	N	<50	100	N	N
I1053105	150	1.5	N	N	10	100	15	20	N	<50	50	<5	N
I1053125	150	<1	N	N	<10	70	10	15	N	N	15	N	N
I1053145	150	2	N	N	15	200	30	50	N	50	70	N	<20
I1053165	100	2	N	N	10	100	20	30	N	<50	20	N	N
I1053185	200	1.5	N	N	15	150	50	30	N	<50	30	<5	N
I1053205	100	1.5	N	N	15	150	30	20	N	<50	100	N	N
I1053225	200	1.5	N	N	10	200	50	50	N	<50	30	N	N
I1053245	700	1.5	N	N	10	150	20	30	N	<50	50	N	N
I1053265	150	2	N	N	10	150	20	20	N	<50	70	N	N
I1053285	500	1.5	N	N	15	200	70	70	N	<50	70	N	N
I1053305	200	2	N	N	<10	200	20	30	N	<50	20	N	N
I1053325	200	1.5	N	N	<10	100	20	20	N	<50	20	N	N
I1053345	700	1.5	N	N	<10	100	15	30	N	N	15	N	N
I1053365	200	1.5	N	N	10	100	70	30	N	<50	50	N	N
I1053385	150	2	N	N	20	100	30	30	N	N	30	N	N
I1053405	150	1.5	N	N	10	70	20	20	N	<50	20	N	N
I1053425	150	1	N	N	<10	50	15	10	N	N	50	N	<20
I1053445	150	1.5	N	N	10	150	30	30	N	<50	20	N	<20
I1053465	200	2	N	N	15	150	20	20	N	<50	150	5	N
I1053485	150	1	N	N	10	150	70	20	N	<50	100	50	N
I1053505	200	1	N	N	<10	70	200	15	N	N	15	N	<20
I1053525	200	1	N	N	10	70	15	15	N	N	50	7	N
I1053545	150	1	N	N	10	100	15	20	N	<50	15	<5	N
I1053565	150	2	N	N	15	100	15	30	N	<50	50	N	N
I1053585	200	1.5	N	N	10	100	20	20	N	<50	100	15	N
I1053605	150	<1	N	N	N	50	15	10	N	N	30	20	N

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1051930	7	N	N	N	N	N	N	50	70	N	N	100	.02	2
I1051950	5	N	N	N	N	N	N	30	300	N	N	200	.02	2
I1052010	N	N	N	N	N	N	N	20	20	N	N	1,000	.02	2
I1052030	10	N	N	N	N	N	N	30	200	N	N	150	.03	2
I1052200	30	<10	N	10	N	N	N	150	30	<10	N	70	.09	2
I1052220	50	70	N	7	N	N	N	100	200	<10	<200	100	.1	2
I1052240	20	<10	N	5	N	N	N	70	50	N	N	70	.16	2
I1052260	30	N	N	7	N	N	N	150	50	<10	N	150	.12	2
I1052280	20	<10	N	<5	N	N	N	50	<20	<10	N	100	.08	2
I1052470	30	20	N	7	N	N	N	150	<20	<10	N	100	.12	2
I1052490	20	10	N	5	N	N	N	100	30	N	N	70	.11	2
I1052510	15	<10	N	<5	N	N	N	50	N	<10	N	200	.07	2
I1052530	7	N	N	<5	N	N	N	50	30	N	N	500	.072	2
I1052550	5	N	N	N	N	N	N	30	30	N	N	200	.05	2
I1052570	15	N	N	<5	N	N	N	70	20	<10	N	300	.07	2
I1052590	15	10	N	5	N	N	N	100	<20	<10	N	70	.11	2
I1052610	20	<10	N	7	N	N	N	100	100	<10	<200	100	.13	2
I1052630	50	15	N	7	N	N	N	100	N	<10	N	70	.12	2
I1052650	15	<10	N	10	N	N	N	100	N	<10	N	150	.13	2
I1052670	50	<10	N	7	N	N	N	70	N	<10	N	70	.11	2
I1052690	50	N	N	10	N	N	N	150	N	<10	N	100	.11	2
I1052710	10	N	N	<5	N	N	N	50	N	N	N	700	.05	2
I1052860	20	<10	N	5	N	N	N	70	N	N	N	70	.11	2
I1052880	50	<10	N	7	N	N	N	100	N	N	<200	100	.072	2
I1052900	15	N	N	7	N	N	N	100	N	<10	N	150	.094	2
I1052920	10	N	N	<5	N	N	N	50	N	N	N	200	.05	2
I1052945	50	<10	N	10	N	N	N	100	N	<10	N	70	.094	2
I1052965	10	<10	N	5	N	N	N	70	N	N	N	100	.09	2
I1052985	10	N	N	5	N	N	N	70	N	N	N	70	.09	2
I1053005	15	N	N	7	N	N	N	100	N	<10	N	100	.18	2
I1053025	15	N	N	5	N	N	N	100	N	<10	N	150	.094	2
I1053045	10	N	N	5	N	N	N	70	N	<10	N	200	.07	2
I1053065	30	N	N	5	N	N	N	50	N	<10	N	150	.09	2
I1053085	70	10	N	10	N	<100	N	150	N	10	N	100	.12	2
I1053105	50	10	N	7	N	N	N	100	N	<10	N	150	.09	2
I1053125	10	N	N	5	N	N	N	50	N	N	N	70	.17	2
I1053145	70	<10	N	15	N	N	N	150	N	10	N	100	.1	2
I1053165	30	N	N	10	N	N	N	100	N	<10	N	100	.13	2
I1053185	50	N	N	10	N	N	N	100	N	<10	N	70	.14	2
I1053205	50	N	N	10	N	N	N	100	N	<10	<200	70	.12	2
I1053225	70	<10	N	10	N	N	N	100	N	<10	N	150	.11	2
I1053245	50	10	N	7	N	<100	N	100	N	<10	N	150	.12	2
I1053265	50	N	N	10	N	N	N	150	N	<10	N	100	.11	2
I1053285	70	50	N	10	N	N	N	150	N	<10	N	70	.12	2
I1053305	30	N	N	10	N	150	N	100	N	<10	N	150	.12	2
I1053325	70	N	N	5	N	2,000	N	150	N	<10	<200	200	.09	2
I1053345	30	10	N	5	N	300	N	100	<20	N	N	150	.15	2
I1053365	50	N	N	7	N	3,000	N	70	N	<10	N	150	.17	2
I1053385	70	15	N	7	N	5,000	N	70	N	<10	<200	200	.14	2
I1053405	30	15	N	7	N	3,000	N	100	N	<10	N	70	.1	2
I1053425	30	15	N	<5	N	<100	N	50	30	N	N	70	.08	2
I1053445	30	N	N	7	N	500	N	100	N	<10	N	100	.13	2
I1053465	50	20	N	10	N	700	N	100	N	<10	<200	100	.13	2
I1053485	500	20	N	7	N	100	N	70	100	<10	<200	100	.2	2
I1053505	15	<10	N	5	N	100	N	70	20	N	N	100	.11	2
I1053525	100	15	N	5	N	5,000	N	70	N	N	N	150	.16	2
I1053545	20	N	N	5	N	500	N	100	N	<10	N	70	.09	2
I1053565	20	30	N	7	N	200	N	70	N	<10	N	50	.12	2
I1053585	50	70	N	7	N	500	N	70	<20	<10	N	150	.14	2
I1053605	15	<10	N	<5	N	500	N	50	N	N	<200	100	.32	2

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1053625	37 59 19	88 46 53	.2	3	1	.3	N	.5	N	N	N	100
I1053645	37 59 19	88 46 53	.15	5	.7	.3	N	.7	N	N	N	100
I1053665	37 59 19	88 46 53	.1	3	.7	.3	N	.7	N	N	N	100
I1053685	37 59 19	88 46 53	.1	7	.7	.3	N	.7	N	N	N	100
I1053705	37 59 19	88 46 53	.3	5	1	.5	N	.7	N	N	N	100
I1053725	37 59 19	88 46 53	.2	7	1	.2	N	.5	N	N	N	70
I1053745	37 59 19	88 46 53	.1	7	1	.5	N	.5	N	N	N	100
I1053765	37 59 19	88 46 53	.7	5	.7	.3	N	.5	N	N	N	100
I1053785	37 59 19	88 46 53	.2	5	.7	.5	N	.5	N	N	N	100
I1053805	37 59 19	88 46 53	.15	3	.7	.2	N	.3	N	N	N	70
I1053825	37 59 19	88 46 53	.7	7	1	.2	N	.5	N	N	N	100
I1053845	37 59 19	88 46 53	.2	5	.7	.3	N	.5	N	N	N	70
I1053865	37 59 19	88 46 53	.3	3	.7	.3	N	.5	N	N	N	100
I1053885	37 59 19	88 46 53	.1	7	1	.5	N	.5	N	N	N	150
I1053905	37 59 19	88 46 53	.3	3	.5	.2	N	.3	N	N	N	100
I1053925	37 59 19	88 46 53	.2	5	.7	.3	N	.5	N	N	N	100
I1053945	37 59 19	88 46 53	.2	5	1	.5	N	.5	N	N	N	70
I1053965	37 59 19	88 46 53	.15	5	1	.5	N	.5	N	N	N	100
I1053985	37 59 19	88 46 53	.05	3	.7	.3	N	.5	N	N	N	100
I1054005	37 59 19	88 46 53	.2	5	.7	.3	N	.5	N	N	N	150
I1054025	37 59 19	88 46 53	.07	3	.5	.3	N	.5	N	N	N	70
I1054045	37 59 19	88 46 53	.15	5	.7	.5	N	.7	N	N	N	100
I1054065	37 59 19	88 46 53	.1	5	1	.5	N	.7	N	N	N	100
I1054085	37 59 19	88 46 53	.07	5	.7	.3	N	.5	N	N	N	70
I1054105	37 59 19	88 46 53	.15	5	1	.5	N	.5	N	N	N	100
I1054125	37 59 19	88 46 53	.05	3	.5	.3	N	.3	N	N	N	100
I1054145	37 59 19	88 46 53	.15	5	.7	.5	N	.5	N	N	N	100
I1054165	37 59 19	88 46 53	.1	2	.3	.2	N	.2	N	N	N	70
I1054185	37 59 19	88 46 53	.07	1.5	.2	.2	N	.15	N	N	N	50
I1054205	37 59 19	88 46 53	.15	5	1	.5	N	.7	N	N	N	100
I1054225	37 59 19	88 46 53	.07	5	1	.5	N	.5	N	N	N	70
I1054245	37 59 19	88 46 53	.07	3	.7	.3	N	.5	N	N	N	70
I1054265	37 59 19	88 46 53	.1	7	.7	.5	N	.5	N	N	N	100
I1054285	37 59 19	88 46 53	.1	5	.5	.7	N	.3	N	N	N	70
I1054305	37 59 19	88 46 53	.2	3	.5	.5	N	.3	N	N	N	70
I1054325	37 59 19	88 46 53	.1	3	.5	.5	N	.3	N	N	N	50
I1054345	37 59 19	88 46 53	.7	5	.7	.3	N	.5	N	N	N	70
I1054365	37 59 19	88 46 53	.15	3	.5	.3	N	.5	N	N	N	70
I1054385	37 59 19	88 46 53	.2	5	.5	.5	N	.5	N	N	N	70
I1054405	37 59 19	88 46 53	.5	3	.7	.3	N	.3	N	N	N	70
I1054425	37 59 19	88 46 53	1.5	7	1.5	.5	N	.5	N	N	N	100
I1054445	37 59 19	88 46 53	5	5	.5	.2	N	.3	N	N	N	50
I1054465	37 59 19	88 46 53	5	1.5	.2	N	N	.1	N	N	N	30
I1054485	37 59 19	88 46 53	10	2	.5	<.2	N	.15	<.5	N	N	30
I1054505	37 59 19	88 46 53	5	2	.5	<.2	N	.2	N	N	N	50
I1054525	37 59 19	88 46 53	2	1.5	.3	N	N	.2	N	N	N	30
I1054545	37 59 19	88 46 53	1	1.5	.3	N	N	.2	<.5	N	N	50
I1054565	37 59 19	88 46 53	5	5	1	.3	N	.3	N	N	N	70
I1054585	37 59 19	88 46 53	.15	5	.7	.2	N	.5	N	N	N	100
I1054605	37 59 19	88 46 53	.2	3	.5	<.2	N	.3	N	N	N	70
I1054625	37 59 19	88 46 53	.15	.7	.15	N	N	.1	N	N	N	70
I1054645	37 59 19	88 46 53	.2	1.5	.3	<.2	N	.3	N	N	N	100
I1054665	37 59 19	88 46 53	.15	2	.7	.2	N	.3	N	N	N	100
I1054685	37 59 19	88 46 53	.15	.7	.3	<.2	N	.1	N	N	N	30
I1054705	37 59 19	88 46 53	.5	.5	.3	<.2	N	.07	N	N	N	30
I1054725	37 59 19	88 46 53	.2	1	.5	.3	N	.15	N	N	N	50
I1054745	37 59 19	88 46 53	<.05	3	.7	.7	N	.3	N	N	N	50
I1054765	37 59 19	88 46 53	.05	5	1	1	N	.5	N	N	N	100
I1054905	37 59 19	88 46 53	.07	5	.7	.7	N	.5	N	N	N	150
I1054925	37 59 19	88 46 53	.1	5	1	1	N	.5	N	N	N	150

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1053625	200	1.5	N	N	10	100	70	30	N	<50	70	5	N
I1053645	200	1.5	N	N	<10	150	30	20	N	<50	30	N	N
I1053665	200	1.5	N	N	10	150	30	30	N	50	50	<5	N
I1053685	500	1	N	N	10	150	50	30	N	<50	70	10	N
I1053705	200	1.5	N	N	10	150	30	50	N	<50	100	<5	N
I1053725	300	1.5	N	N	10	150	20	30	N	<50	200	5	N
I1053745	200	1.5	N	N	15	200	50	50	N	<50	150	7	N
I1053765	300	1.5	N	N	10	150	70	50	N	<50	30	5	N
I1053785	150	1	N	N	10	100	30	30	N	<50	20	<5	N
I1053805	150	1	N	N	10	70	50	20	N	N	50	7	N
I1053825	200	1.5	N	N	10	150	50	30	N	N	100	7	N
I1053845	150	1.5	N	N	10	100	70	30	N	N	20	7	N
I1053865	200	1.5	N	N	<10	70	50	20	N	<50	20	<5	N
I1053885	500	1.5	N	N	15	150	70	30	N	<50	100	10	N
I1053905	200	<1	N	N	10	70	50	15	N	N	30	5	N
I1053925	200	2	N	N	15	70	50	20	N	N	100	N	N
I1053945	150	1.5	N	N	15	100	30	30	N	<50	70	<5	N
I1053965	200	2	N	N	15	150	30	30	N	<50	70	N	N
I1053985	300	1	N	N	10	150	50	20	N	N	30	N	N
I1054005	150	1.5	N	N	10	100	30	20	N	<50	70	7	N
I1054025	100	1	N	N	10	50	20	15	N	N	70	10	N
I1054045	200	1.5	N	N	15	150	50	30	N	50	150	15	<20
I1054065	100	1.5	N	N	15	150	50	50	N	<50	50	N	<20
I1054085	150	1.5	N	N	10	70	15	30	N	N	30	<5	N
I1054105	100	1	N	N	15	100	70	50	N	<50	50	<5	N
I1054125	150	1	N	N	10	50	20	20	N	N	30	N	<20
I1054145	100	1.5	N	N	15	150	50	50	N	<50	50	<5	N
I1054165	50	N	N	N	N	20	7	<5	N	N	20	N	N
I1054185	30	N	N	N	N	15	10	5	N	N	10	N	N
I1054205	150	2	N	N	15	150	20	30	N	<50	30	<5	<20
I1054225	100	1	N	N	10	150	15	15	N	N	20	<5	N
I1054245	150	1	N	N	10	70	50	20	N	N	20	<5	<20
I1054265	150	1.5	N	N	10	100	100	20	N	<50	150	50	<20
I1054285	150	1.5	N	N	<10	100	30	30	N	<50	30	10	N
I1054305	100	1	N	N	<10	100	50	30	N	N	20	7	<20
I1054325	70	1	N	N	<10	100	20	30	N	N	20	N	N
I1054345	300	2	N	N	10	100	15	30	N	<50	30	N	N
I1054365	150	2	N	N	10	100	100	30	N	<50	50	7	N
I1054385	100	1.5	N	N	10	100	30	30	N	<50	50	10	N
I1054405	200	1.5	N	N	10	150	20	20	N	<50	20	N	N
I1054425	150	1.5	N	N	10	100	20	30	N	<50	200	15	N
I1054445	70	<1	N	N	<10	30	7	10	N	<50	150	5	N
I1054465	20	N	N	N	N	<10	15	<5	N	N	15	<5	N
I1054485	300	N	N	N	N	10	10	5	N	N	100	7	N
I1054505	300	<1	N	N	<10	20	10	5	N	N	15	N	N
I1054525	30	<1	N	N	N	10	7	5	N	N	50	7	N
I1054545	300	<1	N	N	<10	15	30	7	N	N	30	N	N
I1054565	150	1	N	N	10	100	7	30	N	<50	150	N	N
I1054585	150	1.5	N	N	10	50	30	20	N	<50	150	<5	N
I1054605	50	<1	N	N	<10	20	20	<5	N	N	20	N	N
I1054625	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I1054645	100	1	N	N	<10	20	20	10	N	N	100	N	N
I1054665	200	1.5	N	N	<10	30	15	15	N	N	20	N	N
I1054685	150	N	N	N	N	<10	5	N	N	N	<10	N	N
I1054705	100	N	N	N	N	N	5	N	N	N	10	N	N
I1054725	300	N	N	N	N	10	10	<5	N	N	30	N	N
I1054745	200	<1	N	N	<10	30	15	15	N	N	50	N	N
I1054765	500	1.5	N	N	10	100	20	20	N	<50	150	N	N
I1054905	300	2	N	N	20	70	100	20	N	50	100	50	N
I1054925	200	1.5	N	N	15	150	70	30	N	<50	100	10	N

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1053625	50	10	N	7	N	200	N	100	20	<10	N	200	.17	2
I1053645	30	N	N	7	N	150	N	100	N	<10	N	100	.13	2
I1053665	50	<10	N	10	N	100	N	150	N	10	N	100	.1	2
I1053685	70	30	N	7	N	1,500	N	200	N	<10	N	150	.09	2
I1053705	70	<10	N	10	N	150	N	150	N	10	N	200	.14	2
I1053725	50	N	N	7	N	3,000	N	100	N	<10	<200	150	.07	2
I1053745	70	50	N	10	N	<100	N	150	N	10	N	150	.12	2
I1053765	50	<10	N	7	N	1,500	N	150	<20	<10	N	150	.19	2
I1053785	50	<10	N	7	N	<100	N	100	20	<10	N	100	.12	2
I1053805	50	N	N	5	N	1,000	N	100	N	N	N	70	.19	2
I1053825	70	10	N	5	N	5,000	N	100	N	<10	300	200	.28	2
I1053845	50	N	N	5	N	1,000	N	100	N	<10	<200	150	.16	2
I1053865	30	10	N	5	N	<100	N	70	200	<10	N	100	.16	2
I1053885	70	<10	N	7	N	N	N	150	N	<10	N	150	.36	2
I1053905	50	500	N	5	N	2,000	N	100	50	N	<200	100	.16	2
I1053925	50	30	N	7	N	N	N	100	N	<10	N	150	.11	2
I1053945	50	N	N	7	N	N	N	70	N	<10	N	150	.19	2
I1053965	50	10	N	10	N	N	N	70	N	<10	N	100	.13	2
I1053985	30	<10	N	5	N	N	N	70	N	<10	<200	100	.12	2
I1054005	30	1,000	N	7	N	N	N	100	N	<10	N	150	.14	2
I1054025	30	200	N	<5	N	N	N	50	N	<10	N	70	.11	2
I1054045	70	150	N	7	N	N	N	100	N	10	N	100	.13	2
I1054065	50	150	N	7	N	N	N	70	<20	<10	N	100	.11	2
I1054085	50	10,000	N	5	N	N	N	50	N	<10	N	100	.13	2
I1054105	50	300	N	7	N	<100	N	70	N	<10	N	100	.1	2
I1054125	50	700	N	5	N	100	N	70	150	N	N	200	.08	2
I1054145	50	100	N	7	N	N	N	100	N	<10	200	100	.073	2
I1054165	20	500	N	<5	N	N	N	50	N	N	N	50	.08	2
I1054185	15	15	N	N	N	N	N	30	N	N	N	30	.08	2
I1054205	70	10	N	7	N	N	N	100	N	<10	<200	100	.093	2
I1054225	50	50	N	5	N	N	N	70	<20	<10	N	150	.08	2
I1054245	50	300	N	5	N	N	N	70	<20	<10	N	100	.08	2
I1054265	70	200	N	5	N	200	N	100	N	<10	200	200	.081	2
I1054285	50	700	N	5	N	100	N	70	50	N	<200	150	.19	2
I1054305	30	300	N	5	N	<100	N	50	500	N	N	100	.19	2
I1054325	30	20	N	5	N	N	N	50	N	<10	N	150	.09	2
I1054345	50	500	N	7	N	N	N	70	N	<10	N	100	.89	2
I1054365	50	70	N	7	N	N	N	100	N	<10	N	100	.41	2
I1054385	30	10	N	7	N	<100	N	70	N	<10	<200	100	.13	2
I1054405	30	<10	N	7	N	150	N	70	N	<10	N	70	.15	2
I1054425	50	1,000	N	7	N	150	N	100	N	<10	N	100	.27	2
I1054445	15	300	N	<5	N	150	N	50	N	<10	N	100	.34	2
I1054465	30	500	N	N	N	150	N	15	30	N	N	10	.09	2
I1054485	10	3,000	N	N	N	700	N	30	N	N	N	50	.12	2
I1054505	10	<10	N	<5	N	200	N	50	N	<10	N	50	.063	2
I1054525	7	500	N	<5	N	100	N	30	N	N	500	100	.08	2
I1054545	15	1,500	N	<5	N	150	N	50	N	N	300	70	.08	2
I1054565	30	150	N	7	N	100	N	70	N	<10	N	70	.09	2
I1054585	20	15,000	N	5	N	N	N	100	N	<10	200	70	.06	2
I1054605	15	150	N	<5	N	N	N	50	N	N	N	30	.08	2
I1054625	5	20	N	N	N	N	N	15	<20	N	N	15	.051	2
I1054645	15	700	N	<5	N	N	N	70	<20	N	N	50	.08	2
I1054665	15	500	N	5	N	N	N	70	N	N	N	70	.08	2
I1054685	7	500	N	N	N	N	N	20	N	N	N	50	.043	2
I1054705	7	N	N	N	N	N	N	15	N	N	N	20	.041	2
I1054725	10	70	N	N	N	N	N	50	N	N	N	30	.071	2
I1054745	15	10	N	<5	N	N	N	70	N	<10	N	50	.09	2
I1054765	30	<10	N	7	N	N	N	100	N	<10	<200	70	.09	2
I1054905	50	20	N	7	N	N	N	150	N	10	N	100	.061	10
I1054925	30	15	N	7	N	N	N	150	N	10	N	100	.07	10

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I105, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	Latitude	Longitude	Ca-pct. s	Fe-pct. s	Mg-pct. s	Na-pct. s	P-pct. s	Ti-pct. s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s
I1054965	37 59 19	88 46 53	.15	3	.5	.5	N	.3	N	N	N	100
I1054985	37 59 19	88 46 53	.1	3	.5	.2	N	.3	N	N	N	70
I1055005	37 59 19	88 46 53	.15	2	.3	.3	N	.3	N	N	N	70
I1055025	37 59 19	88 46 53	.07	3	.5	.7	N	.5	N	N	N	100
I1055045	37 59 19	88 46 53	.15	2	.3	<.2	N	.2	N	N	N	50
I1055065	37 59 19	88 46 53	.07	3	.5	1	N	.3	N	N	N	100
I1055085	37 59 19	88 46 53	.05	5	.5	.7	N	.5	N	N	N	100
I1055110	37 59 19	88 46 53	.07	1.5	.2	.2	N	.2	N	N	N	50
I1055130	37 59 19	88 46 53	.07	2	.3	.3	N	.5	N	N	N	70
I1055150	37 59 19	88 46 53	.2	3	.3	.3	N	.5	N	N	N	100
I1055170	37 59 19	88 46 53	<.05	1	.15	<.2	N	.15	N	N	N	30
I1055185	37 59 19	88 46 53	.05	1.5	.2	.2	N	.2	N	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I1054965	200	1.5	N	N	<10	15	70	15	N	N	50	10	N
I1054985	150	1	N	N	10	20	30	5	N	N	50	7	N
I1055005	150	<1	N	N	<10	15	50	10	N	N	50	5	N
I1055025	200	1.5	N	N	15	30	70	30	N	<50	70	20	N
I1055045	700	<1	N	N	<10	<10	30	5	N	N	100	15	N
I1055065	200	2	N	N	15	30	100	30	N	<50	100	30	N
I1055085	200	2	N	N	15	50	70	30	N	<50	70	20	N
I1055110	300	<1	N	N	<10	<10	20	5	N	N	20	5	N
I1055130	150	<1	N	N	<10	30	100	15	N	<50	30	15	N
I1055150	200	1	N	N	10	20	100	15	N	N	100	20	N
I1055170	70	N	N	N	N	<10	20	<5	N	N	15	7	N
I1055185	100	<1	N	N	<10	10	30	10	N	N	20	10	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I1054965	30	10	N	5	N	N	N	100	N	<10	N	50	.061	10
I1054985	50	70	N	5	N	N	N	50	N	<10	<200	50	.07	10
I1055005	20	150	N	<5	N	N	N	70	N	N	N	70	.11	10
I1055025	50	20	N	7	N	N	N	100	N	<10	N	50	.09	10
I1055045	20	<10	N	<5	N	N	N	50	N	N	N	30	.061	10
I1055065	50	15	N	5	N	N	N	150	N	<10	N	70	.06	10
I1055085	50	500	N	7	N	N	N	150	N	10	N	100	.1	10
I1055110	15	20	N	<5	N	N	N	30	N	N	N	30	.09	10
I1055130	30	20	N	5	N	N	N	70	N	<1D	N	100	.031	10
I1055150	50	20	N	5	N	N	N	150	N	<10	<200	70	.05	10
I1055170	10	15	N	N	N	N	N	30	N	N	N	20	.05	10
I1055185	15	N	N	<5	N	N	N	50	N	N	N	30	.04	10

Table 38. Formation Codes

Code	Formation
0	Cretaceous - undifferentiated
1	Pennsylvanian - undifferentiated
2	Mississippian - undifferentiated
3	Upper Chester Series
4	Middle Chester Series
5	Lower Chester Series
6	Upper Valmeyeran Series
7	Lower Valmeyeran Series
8	Kinderhookian Series
10	Devonian - undifferentiated
11	New Albany Group
12	Hunton Group
15	Silurian - undifferentiated
20	Ordovician - undifferentiated
21	Cincinnatian Series - undifferentiated
22	Maquoketa Group
23	Champlainian Series - undifferentiated
24	Cape Group
25	Galena Group
26	Platteville Group
27	Ancell Group
28	Glenwood Formation
29	Rock Levee Formation
30	Joachim Formation
31	Dutchtown Formation
32	St. Peter Formation
40	Canadian Series - undifferentiated
41	Knox Megagroup - undifferentiated
42	Prairie du Chien Group - undifferentiated
43	Everton Formation
44	Shakopee Formation
45	New Richmond Formation
46	Oneota Formation
48	Lower Ordovician - undifferentiated
49	Black Rock Formation
50	Smithville Formation
51	Powell Formation

Table 38. Formation Codes--Continued

Code	Formation
52	Cotter Formation
53	Jefferson City Formation
54	Roubidoux Formation
55	Gasconade Formation
56	Gunter Formation
60	Cambro-Ordovician - undifferentiated
61	Cambrian - undifferentiated
62	Trempealeauan Series - undifferentiated
63	Eminence Formation
64	Potosi Formation
65	Franconian Series - undifferentiated
66	Franconia Formation
67	Ironton-Galesville Formations
68	Derby-Doerun Formations
78	Elvins Formation
69	Davis Formation
70	Reagan Formation
71	Dresbachian Series - undifferentiated
72	Eau Claire Formation
73	Bonneterre Formation
74	Mt. Simon Formation
75	Lamotte Formation
76	Bonneterre-Lamotte Transition Zone
80	Precambrian - undifferentiated
81	Precambrian granite