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Analytical results of insoluble-residue samples from the Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky: Drill hole nos. P1-P20.

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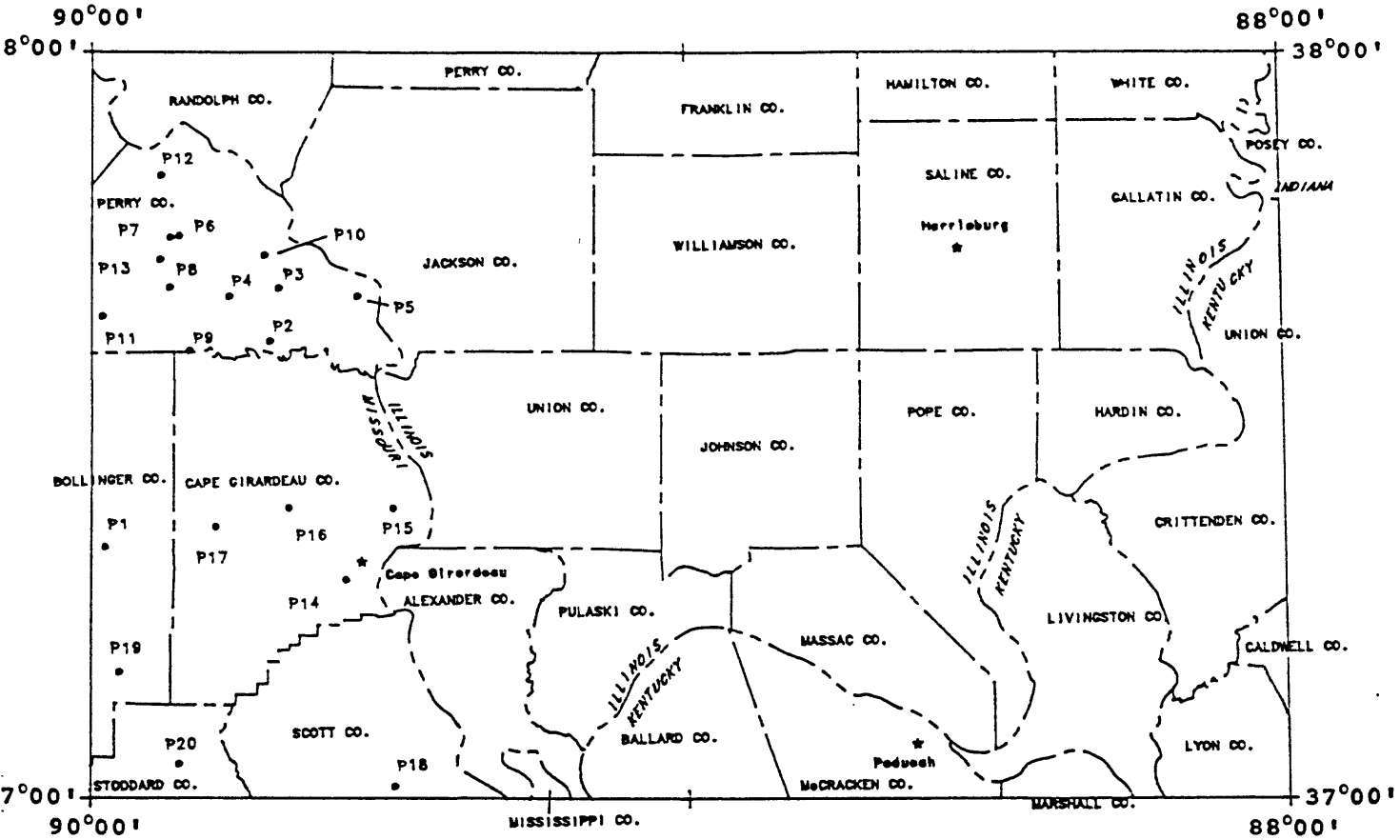
INTRODUCTION

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 hole no. P1 (#BO15 - MGLS), drill hole no. P2 (#11467 - MGLS), drill hole no. P3 (#20329 - MGLS), drill hole no. P4 (#24809 - MGLS), drill hole no. P5 (#24376 - MGLS), drill hole no. P6 (#14867 - MGLS), drill hole no. P7 (#20349 - MGLS), drill hole no. P8 (#27692 - MGLS), drill hole no. P9 (#22703 - MGLS), drill hole no. P10 (#5594 - MGLS), drill hole no. P11 (#26560 - MGLS), drill hole no. P12 (#22153 and 22963 - MGLS), drill hole no. P13 (#3029 - MGLS), drill hole no. P14 (#9093 - MGLS), drill hole no. P15 (#21229 - MGLS), drill hole no. P16 (#12555 - MGLS), drill hole no. P17 (#28172 - MGLS), drill hole no. P18 (#23365 - MGLS), drill hole no. P19 (#24641 and 21477 - MGLS), and drill hole no. P20 (#9205 - MGLS), are given in this report. Drill hole no. P1 (MH-1 Exxon Min.) is located in sec. 30, T. 31 N., R. 10 E. in Bollinger County, Missouri; drill hole no. P2 (H.A. Vogel) is located in sec. 34, T. 34 N., R. 12 E. in Perry County Missouri; drill hole no. P3 (Edgar Steffins) is located in sec. 2, T. 34 N., R. 12 E. in Perry County, Missouri; drill hole no. P4 (Water District #1) is located in sec. 12, T. 34 N., R. 11 E. in Perry County, Missouri; drill hole no. P5 (Mississippi River Trans. Corp.) is located in sec. 1, T. 34 N., R. 13 E. in Perry County, Missouri; drill hole no. P6 (James L. Huber) is located in sec. 7, T. 35 N., R. 11 E. in Perry County, Missouri; drill hole no. P7 (Leon C. L'Hote Jr.) is located in sec. 7, T. 35 N., R. 11 E. in Perry County, Missouri; drill hole no. P8 (Shakektown Estates) is located in sec. 31, T. 35 N., R. 11 E. in Perry County, Missouri; drill hole no. P9 (Clyde Hotop) is located in sec. 32, T. 34 N., R. 11 E. in Perry County, Missouri; drill hole no. P10 (Vernon Bachmann) is located in sec. 21, T. 34 N., R. 9 E. in Perry County, Missouri; drill hole no. P11 (Noburt Giesler) is located in sec. 13, T. 34 N., R. 9 E. in Perry County, Missouri; drill hole no. P12 (Chas.



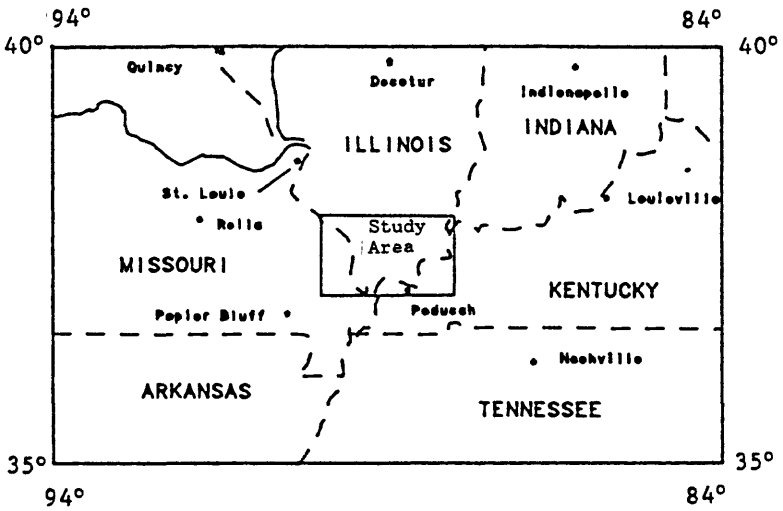


Figure 1.--Location of drill holes P1-P20, Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky

Morey) is located in sec. 12, T. 36 N., R. 10 E. in Perry County, Missouri; drill hole no. P13 (St. Mary's Seminary) is located in sec. 24, T. 35 N., R. 10 E. in Perry County, Missouri; drill hole no. P14 (L.C. Blattner) is located in sec. 2, T. 30 N., R. 13 E. in Cape Girardeau County, Missouri; drill hole no. P15 (Walker #1) is located in sec. 3, T. 31 N., R. 14 E. in Cape Girardeau County, Missouri; drill hole no. P16 (City of Jackson) is located in sec. 1, T. 31 N., R. 12 E. in Cape Girardeau County, Missouri; drill hole no. P17 (Bollinger Mill State Park) is located in sec. 14, T. 31 N., R. 11 E. in Cape Girardeau County, Missouri; drill hole no. P18 (Gypsy #1) is located in sec. 1, T. 27 N., R. 14 E. in Scott County, Missouri; drill hole no. P19 (R.H. Ford #1) is located in sec. 21, T. 29 N., R. 10 E. in Bollinger County, Missouri; drill hole no. P20 (Rehms #1) is located in sec. 32, T. 28 N., R. 11 E. in Stoddard County, Missouri (fig. 1). Data for the insoluble-residue samples from drill holes P1-P20 are listed in tables 2-21, respectively. Well name, well number, and county allow for identification and location of drill hole files at the Missouri Division of Geology and Land Survey.

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 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is

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 2-21.

(Ion-selective electrode method #1)

The insoluble-residue samples from drill holes P2-P20 were analyzed for fluorine (F) using an ion-selective electrode 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 of this method is 100 ppm (.01%).

Analytical results using this method are listed in tables 3-21.

(Ion-selective electrode method #2)

The insoluble-residue samples from drill hole P1 were analyzed for fluorine (F) using another ion-selective electrode method. A 100 mg sample is fused with a sodium carbonate-zinc oxide flux. The fusion cake is leached with water. 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 of this method is 50 ppm (.005%).

Analytical results using this method are listed in table 2.

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 2-21 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 Paducah; the next digit indicates 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 2-21. The codes and corresponding formation names are listed in table 22.

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 1. 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.–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 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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
P1R1510	37 20 9	89 58 34	.15	.1	.07	--	--	.01	N	N	N	50
P1R1530	37 20 9	89 58 34	.3	.15	.15	--	--	.015	N	N	N	50
P1R1550	37 20 9	89 58 34	.3	.7	.1	--	--	.015	N	N	N	50
P1R1570	37 20 9	89 58 34	.3	.2	.2	--	--	.03	N	N	N	20
P1R1590	37 20 9	89 58 34	.3	2	.2	--	--	.05	N	<200	N	30
P1R1600	37 20 9	89 58 34	.2	3	.2	--	--	.02	N	300	N	70
P1R1620	37 20 9	89 58 34	3	5	1	--	--	.03	<.5	<200	N	30
P1R1630	37 20 9	89 58 34	.5	1	.5	--	--	.15	.5	<200	N	50
P1R1660	37 20 9	89 58 34	.3	2	.15	--	--	.05	1	<200	N	30
P1R1670	37 20 9	89 58 34	.15	15	1.5	--	--	.7	.5	500	N	300
P1R1680	37 20 9	89 58 34	.1	7	1.5	--	--	1	.5	N	N	200
P1R1690	37 20 9	89 58 34	.1	15	1	--	--	.5	1.5	N	N	200
P1R1700	37 20 9	89 58 34	.07	>20	.5	--	--	.3	1	N	N	150
P1R1710	37 20 9	89 58 34	.1	5	1.5	--	--	1	1	N	N	200
P1R1720	37 20 9	89 58 34	.05	>20	.07	--	--	.03	2	N	N	70
P1R1730	37 20 9	89 58 34	.05	>20	.3	--	--	.1	1	N	N	100
P1R1740	37 20 9	89 58 34	.05	10	1	--	--	.3	.5	N	N	100
P1R1750	37 20 9	89 58 34	.15	2	.2	--	--	.2	<.5	N	N	70
P1R1760	37 20 9	89 58 34	.15	1.5	.2	--	--	.15	<.5	N	N	20
P1R1770	37 20 9	89 58 34	3	3	2	--	--	.3	.7	N	N	50
P1R1780	37 20 9	89 58 34	.15	5	.5	--	--	.5	1.5	<200	N	100
P1R1790	37 20 9	89 58 34	.1	5	.7	--	--	.5	1	N	N	100
P1R1800	37 20 9	89 58 34	.15	5	.7	--	--	.5	1	N	N	100
P1R1810	37 20 9	89 58 34	.1	5	.5	--	--	.5	1	N	N	100
P1R1820	37 20 9	89 58 34	.05	7	.2	--	--	.3	.7	N	N	100
P1R1830	37 20 9	89 58 34	<.05	3	.15	--	--	.2	.5	<200	N	50
P1R1840	37 20 9	89 58 34	.05	5	.3	--	--	.3	.7	<200	N	70
P1R1850	37 20 9	89 58 34	.07	2	.7	--	--	.5	.5	N	N	150
P1R1860	37 20 9	89 58 34	.05	3	.15	--	--	.15	N	N	N	30
P1R1870	37 20 9	89 58 34	7	2	3	--	--	.2	N	N	N	30
P1R1880	37 20 9	89 58 34	.1	1.5	.1	--	--	.15	<.5	N	N	30
P1R1890	37 20 9	89 58 34	.1	2	.15	--	--	.2	.5	N	N	20
P1R1900	37 20 9	89 58 34	.07	1	.1	--	--	.1	N	N	N	15
P1R1910	37 20 9	89 58 34	.05	1	.1	--	--	.15	N	N	N	20
P1R1920	37 20 9	89 58 34	.05	.7	.1	--	--	.07	N	N	N	20
P1R1930	37 20 9	89 58 34	1	2	1.5	--	--	.5	N	N	N	70
P1R1940	37 20 9	89 58 34	.7	1	2	--	--	.7	N	N	N	70
P1R1950	37 20 9	89 58 34	.3	2	1	--	--	.7	N	N	N	70
P1R1960	37 20 9	89 58 34	.07	20	1	--	--	.3	3	200	N	500
P1R1970	37 20 9	89 58 34	.07	5	2	--	--	>1	<.5	N	N	500
P1R1980	37 20 9	89 58 34	.05	3	1	--	--	.7	1	N	N	200
P1R1990	37 20 9	89 58 34	.05	5	.15	--	--	.5	2	N	N	50
P1R2000	37 20 9	89 58 34	.3	2	.7	--	--	.7	1	N	N	30
P1R2020	37 20 9	89 58 34	.05	7	.7	--	--	.5	1.5	N	N	150
P1R2030	37 20 9	89 58 34	.2	2	1.5	--	--	.7	.5	N	N	150
P1R2040	37 20 9	89 58 34	.1	2	.7	--	--	.5	.7	N	N	150
P1R2050	37 20 9	89 58 34	.15	5	2	--	--	1	.7	N	N	500
P1R2070	37 20 9	89 58 34	.1	5	3	--	--	.7	3	N	N	300
P1R2100	37 20 9	89 58 34	.1	>20	.7	--	--	.2	20	<200	N	300
P1R2120	37 20 9	89 58 34	.1	5	2	--	--	1	1	N	N	300
P1R2140	37 20 9	89 58 34	.1	20	1.5	--	--	.5	1	<200	N	500
P1R2160	37 20 9	89 58 34	.1	5	1	--	--	1	.7	N	N	500
P1R2170	37 20 9	89 58 34	.3	7	1.5	--	--	1	2	N	N	500
P1R2210	37 20 9	89 58 34	7	>20	1	--	--	.1	<.5	N	N	100
P1R2220	37 20 9	89 58 34	.2	1.5	.2	--	--	.05	.7	<200	N	50
P1R2240	37 20 9	89 58 34	.7	10	.5	--	--	.1	7	<200	N	50
P1R2250	37 20 9	89 58 34	.2	15	.3	--	--	.5	10	200	N	50
P1R2270	37 20 9	89 58 34	.5	20	.3	--	--	.5	20	<200	N	100
P1R2280	37 20 9	89 58 34	.1	10	1	--	--	.7	5	<200	N	150
P1R2290	37 20 9	89 58 34	.1	15	.7	--	--	.7	7	200	N	200

TABLE 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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
P1R1510	<20	N	N	N	N	<10	<5	--	--	N	10	<5	N
P1R1530	20	N	N	N	N	<10	<5	--	--	N	10	<5	N
P1R1550	20	N	N	N	N	10	<5	--	--	N	15	5	N
P1R1570	<20	N	N	N	N	10	<5	--	--	N	10	5	N
P1R1590	20	1	N	N	N	10	5	--	--	N	10	10	N
P1R1600	<20	2	N	N	N	10	10	--	--	N	20	15	N
P1R1620	50	<1	N	N	N	10	15	--	--	N	30	10	N
P1R1630	150	1	N	N	N	10	10	--	--	N	20	7	N
P1R1660	70	1.5	N	N	N	10	10	--	--	N	20	5	N
P1R1670	150	5	N	N	20	100	100	--	--	N	100	30	<20
P1R1680	150	2	N	N	15	100	50	--	--	<50	70	50	<20
P1R1690	100	2	N	N	20	70	100	--	--	N	100	500	N
P1R1700	100	1	N	N	15	50	50	--	--	N	100	20	N
P1R1710	150	2	N	N	10	100	50	--	--	N	50	20	<20
P1R1720	30	<1	N	N	<10	<10	100	--	--	N	200	5	N
P1R1730	30	<1	N	N	<10	<10	70	--	--	N	100	10	N
P1R1740	70	1	N	N	10	30	30	--	--	N	30	10	N
P1R1750	50	<1	N	N	<10	10	7	--	--	N	10	<5	N
P1R1760	70	<1	N	N	<10	10	10	--	--	N	10	<5	N
P1R1770	70	<1	N	N	10	50	20	--	--	N	20	15	N
P1R1780	200	1	N	N	15	100	50	--	--	N	15	10	N
P1R1790	300	1	N	N	15	150	70	--	--	N	30	10	N
P1R1800	300	1	N	N	15	100	70	--	--	N	30	7	N
P1R1810	300	1	N	N	15	100	50	--	--	N	15	20	N
P1R1820	500	1	N	N	<10	30	30	--	--	N	15	20	N
P1R1830	200	1	N	N	<10	10	15	--	--	N	10	15	N
P1R1840	300	1.5	N	N	<10	20	50	--	--	N	20	5	N
P1R1850	200	2	N	N	<10	70	20	--	--	N	15	15	N
P1R1860	150	1	N	N	<10	10	15	--	--	N	15	5	N
P1R1870	200	<1	N	N	<10	10	20	--	--	N	200	20	N
P1R1880	200	<1	N	N	<10	10	15	--	--	N	<10	5	N
P1R1890	300	1	N	N	<10	15	30	--	--	N	10	5	<20
P1R1900	200	<1	N	N	<10	10	10	--	--	N	<10	5	<20
P1R1910	200	<1	N	N	<10	10	5	--	--	N	<10	5	N
P1R1920	200	<1	N	N	<10	<10	5	--	--	N	<10	5	N
P1R1930	300	1	N	N	<10	50	30	--	--	<50	70	5	N
P1R1940	500	1	N	N	10	100	50	--	--	<50	70	5	N
P1R1950	500	1	N	N	20	100	50	--	--	<50	50	5	N
P1R1960	300	10	N	N	50	50	150	--	--	N	50	20	N
P1R1970	150	5	N	N	15	150	50	--	--	<50	70	<5	<20
P1R1980	300	2	N	N	10	100	70	--	--	N	30	<5	<20
P1R1990	500	1	N	N	10	20	100	--	--	N	15	<5	<20
P1R2000	500	1	N	N	15	50	70	--	--	N	20	10	N
P1R2020	500	1.5	N	N	20	30	100	--	--	N	50	5	<20
P1R2030	150	2	N	N	15	70	50	--	--	<50	30	<5	N
P1R2040	200	1	N	N	<10	50	15	--	--	N	30	5	N
P1R2050	200	5	N	N	15	150	50	--	--	50	50	5	<20
P1R2070	150	3	N	20	15	100	50	--	--	<50	70	5	<20
P1R2100	150	1.5	N	N	20	30	70	--	--	N	150	5	N
P1R2120	150	2	N	N	20	100	50	--	--	50	100	5	20
P1R2140	150	5	N	N	20	100	100	--	--	N	100	20	N
P1R2160	150	3	N	N	<10	100	30	--	--	70	70	5	<20
P1R2170	150	2	N	N	15	100	50	--	--	50	100	20	<20
P1R2210	500	3	N	N	50	20	50	--	--	N	>5,000	15	N
P1R2220	20	<1	N	N	<10	10	5	--	--	N	70	<5	N
P1R2240	70	2	N	N	15	10	50	--	--	N	200	<5	N
P1R2250	300	1	N	N	70	70	70	--	--	N	100	100	N
P1R2270	200	1.5	N	50	70	100	50	--	--	N	70	100	<20
P1R2280	300	2	N	N	50	100	70	--	--	50	50	50	N
P1R2290	300	2	N	N	100	100	100	--	--	50	70	30	N

TABLE 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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 #
P1R1510	<5	<10	N	N	N	N	N	<10	20	N	N	N	.004	61
P1R1530	<5	<10	N	N	N	N	N	<10	<20	N	N	N	.007	61
P1R1550	<5	<10	N	N	N	N	N	<10	20	N	N	N	.01	61
P1R1570	10	<10	N	N	N	N	N	<10	20	N	N	10	.01	61
P1R1590	20	20	N	N	N	N	N	10	<20	N	<200	50	.013	61
P1R1600	30	100	N	N	N	N	N	10	<20	N	N	<10	.05	61
P1R1620	10	150	N	N	N	N	N	<10	<20	N	N	10	.043	61
P1R1630	15	15	N	N	N	N	N	50	<20	N	N	50	.02	61
P1R1660	10	20	N	N	N	N	N	15	<20	N	<200	30	.04	61
P1R1670	100	700	N	15	N	N	N	100	N	10	N	150	.18	61
P1R1680	50	150	N	10	N	N	N	150	N	15	<200	200	.32	61
P1R1690	50	2,000	N	7	N	N	N	70	N	<10	200	70	--	61
P1R1700	50	500	N	5	N	N	N	50	N	N	200	50	.11	61
P1R1710	30	300	N	10	N	N	N	100	N	10	500	150	.22	61
P1R1720	30	1,500	N	N	N	N	N	<10	N	N	300	<10	--	61
P1R1730	20	700	N	N	N	N	N	15	N	N	N	20	.063	61
P1R1740	20	500	N	5	N	N	N	50	N	N	N	50	.16	61
P1R1750	10	10	N	N	N	N	N	15	<20	N	N	30	.05	61
P1R1760	20	<10	N	N	N	N	N	10	20	N	N	30	.011	61
P1R1770	20	50	N	5	N	N	N	70	N	N	N	50	.031	61
P1R1780	30	150	N	5	N	N	N	50	N	N	N	50	.051	61
P1R1790	30	100	N	7	N	100	N	50	N	10	N	100	.01	61
P1R1800	30	150	N	5	N	100	N	50	N	<10	N	100	.08	61
P1R1810	50	150	N	5	N	<100	N	70	N	<10	N	100	.051	61
P1R1820	20	150	N	<5	N	100	N	50	N	<10	N	300	.06	61
P1R1830	20	100	N	N	N	100	N	20	N	N	200	100	.09	61
P1R1840	30	300	N	5	N	100	N	30	N	<10	N	70	.09	61
P1R1850	30	100	N	5	N	100	N	50	N	10	N	300	.1	61
P1R1860	20	100	N	N	N	<100	N	20	N	<10	<200	70	.03	61
P1R1870	10	100	N	N	N	100	N	15	N	N	N	150	.02	61
P1R1880	10	30	N	N	N	100	N	15	<20	N	N	300	.04	61
P1R1890	15	150	N	<5	N	100	N	30	<20	10	N	700	.05	61
P1R1900	7	<10	N	N	N	100	N	10	<20	N	N	100	.03	61
P1R1910	7	<10	N	N	N	100	N	15	20	N	N	100	.04	61
P1R1920	7	<10	N	N	N	100	N	10	<20	N	N	100	.071	61
P1R1930	20	50	N	5	N	100	N	50	<20	10	N	150	.08	61
P1R1940	20	15	N	7	N	100	N	70	<20	10	N	150	.08	61
P1R1950	20	50	N	7	N	100	N	70	<20	10	N	150	.09	61
P1R1960	100	300	N	<5	N	<100	N	50	N	10	<200	300	.26	76
P1R1970	70	100	N	15	N	<100	N	70	N	15	N	200	.22	76
P1R1980	100	150	N	7	N	100	N	50	N	10	N	200	.14	76
P1R1990	70	200	N	<5	N	100	N	20	N	10	N	200	.05	76
P1R2000	50	150	N	5	N	150	N	30	N	10	N	300	.053	76
P1R2020	100	300	N	7	N	<100	N	50	N	15	N	200	.1	76
P1R2030	30	100	N	10	N	<100	N	70	N	10	N	150	.18	76
P1R2040	20	150	N	5	N	<100	N	50	N	15	N	150	.16	76
P1R2050	50	150	N	15	N	<100	N	100	N	20	N	300	.32	76
P1R2070	50	500	N	10	N	<100	N	100	N	10	7,000	200	--	76
P1R2100	150	3,000	N	5	N	<100	N	30	N	<10	<200	50	.14	76
P1R2120	100	500	N	10	N	<100	N	150	N	15	<200	200	.57	76
P1R2140	100	1,000	N	20	N	<100	N	150	N	15	<200	200	--	76
P1R2160	20	500	N	10	N	100	N	100	N	15	N	300	.38	76
P1R2170	30	700	N	10	N	<100	N	100	N	20	<200	300	.16	76
P1R2210	100	500	N	5	N	<100	N	70	N	20	500	200	.063	76
P1R2220	15	20	N	N	N	<100	N	<10	<20	N	<200	20	.03	76
P1R2240	30	500	N	N	N	<100	N	15	N	N	<200	100	.04	76
P1R2250	150	500	N	7	N	<100	N	50	N	15	2,000	150	--	76
P1R2270	150	700	N	7	N	<100	N	50	N	15	10,000	150	.081	76
P1R2280	100	500	N	10	N	150	N	100	N	15	N	100	.16	76
P1R2290	150	700	N	10	N	100	N	150	N	15	N	100	.14	76

TABLE 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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
P1R2300	37 20 9	89 58 34	.1	5	1	--	--	.7	2	N	N	200
P1R2310	37 20 9	89 58 34	.05	5	.7	--	--	.5	2	N	N	100
P1R2320	37 20 9	89 58 34	.07	5	1.5	--	--	.7	1.5	N	N	200
P1R2330	37 20 9	89 58 34	.07	7	2	--	--	1	3	N	N	200
P1R2350	37 20 9	89 58 34	.1	10	.7	--	--	.5	5	<200	N	200
P1R2370	37 20 9	89 58 34	.15	10	1.5	--	--	.5	3	N	N	500
P1R2380	37 20 9	89 58 34	.15	7	2	--	--	1	.5	N	N	700
P1R2390	37 20 9	89 58 34	.1	5	2	--	--	1	<.5	N	N	500
P1R2400	37 20 9	89 58 34	5	5	3	--	--	1	.7	N	N	300
P1R2410	37 20 9	89 58 34	.2	5	1.5	--	--	1	.7	N	N	300
P1R2420	37 20 9	89 58 34	.15	7	1.5	--	--	1	1.5	N	N	500
P1R2430	37 20 9	89 58 34	.15	1.5	1	--	--	1	.5	N	N	300
P1R2440	37 20 9	89 58 34	.05	20	.3	--	--	.3	7	300	N	500
P1R2450	37 20 9	89 58 34	.07	5	2	--	--	.5	3	N	N	500
P1R2460	37 20 9	89 58 34	.05	10	1	--	--	.3	10	200	N	300
P1R2470	37 20 9	89 58 34	.2	10	.7	--	--	.3	7	300	N	200
P1R2480	37 20 9	89 58 34	.15	2	.5	--	--	.2	5	N	N	100
P1R2490	37 20 9	89 58 34	.2	2	.5	--	--	.3	3	<200	N	100
P1R2500	37 20 9	89 58 34	.2	2	.5	--	--	.2	2	<200	N	100
P1R2510	37 20 9	89 58 34	.15	1	.5	--	--	.3	.5	N	N	70
P1R2520	37 20 9	89 58 34	.2	1.5	.5	--	--	.5	N	N	N	100
P1R2530	37 20 9	89 58 34	.3	1	.5	--	--	.2	N	N	N	50

TABLE 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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
P1R2300	150	1.5	N	N	15	100	50	--	--	50	50	10	N
P1R2310	100	1.5	N	N	15	30	30	--	--	<50	50	10	N
P1R2320	150	2	N	N	30	100	50	--	--	50	50	5	N
P1R2330	150	1.5	N	N	30	100	50	--	--	70	50	30	<20
P1R2350	100	1.5	N	N	20	50	70	--	--	N	70	30	N
P1R2370	150	2	N	N	20	100	70	--	--	50	100	5	N
P1R2380	200	5	N	N	20	150	50	--	--	70	100	<5	<20
P1R2390	150	3	N	N	15	100	30	--	--	100	100	<5	<20
P1R2400	200	3	N	N	100	100	30	--	--	70	200	<5	N
P1R2410	100	2	N	N	100	50	70	--	--	70	100	<5	<20
P1R2420	200	5	N	N	100	100	100	--	--	100	100	5	<20
P1R2430	200	3	N	N	50	100	50	--	--	70	100	<5	N
P1R2440	100	3	N	N	150	20	500	--	--	N	50	30	N
P1R2450	150	5	N	N	50	100	70	--	--	50	100	150	N
P1R2460	150	3	N	N	15	50	100	--	--	N	150	5	N
P1R2470	300	3	N	N	15	100	200	--	--	<50	70	10	N
P1R2480	200	1.5	N	N	10	10	30	--	--	N	70	20	N
P1R2490	500	1	N	N	10	10	20	--	--	N	100	20	N
P1R2500	500	2	N	N	10	10	15	--	--	N	100	7	N
P1R2510	500	<1	N	N	50	10	70	--	--	N	50	<5	N
P1R2520	700	1	N	N	N	10	50	--	--	50	70	<5	<20
P1R2530	500	1.5	N	N	<10	10	70	--	--	N	150	<5	N

TABLE 2--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P1, 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 #
P1R2300	50	500	N	10	N	150	N	100	N	10	N	100	.26	76
P1R2310	50	500	N	7	N	<100	N	30	N	10	200	70	.18	76
P1R2320	70	500	N	7	N	100	N	70	N	15	500	100	.15	76
P1R2330	50	300	N	15	N	100	N	70	N	15	N	100	.32	76
P1R2350	70	700	N	5	N	<100	N	50	N	10	<200	100	--	76
P1R2370	70	500	N	10	N	100	N	50	N	15	N	100	--	76
P1R2380	50	100	N	30	N	200	N	70	N	70	N	300	.28	76
P1R2390	30	100	N	20	N	200	N	70	N	50	N	300	.14	76
P1R2400	100	100	N	20	N	200	N	70	N	20	N	200	.16	76
P1R2410	100	150	N	10	N	100	N	70	N	15	N	100	.24	76
P1R2420	100	150	N	15	N	200	N	100	N	30	N	200	.22	76
P1R2430	30	150	N	10	N	150	N	70	N	15	<200	150	.19	76
P1R2440	200	5,000	N	7	N	<100	N	20	N	15	<200	200	.06	76
P1R2450	30	200	N	10	N	200	N	70	N	30	N	200	.28	76
P1R2460	20	1,000	N	5	N	100	N	50	N	15	200	100	.15	76
P1R2470	20	1,000	N	5	N	100	N	50	N	10	<200	100	.13	76
P1R2480	20	100	N	5	N	150	N	20	N	10	500	100	.09	76
P1R2490	20	100	N	5	N	100	N	20	N	15	N	100	.053	76
P1R2500	15	30	N	<5	N	<100	N	15	<20	10	N	100	.07	76
P1R2510	20	700	N	5	N	100	N	20	<20	15	<200	100	.07	76
P1R2520	5	<10	N	7	N	100	N	50	20	30	N	150	.06	75
P1R2530	7	10	N	5	N	200	N	50	20	15	N	70	.05	80

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P2, 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
P20020	37 36 49	89 41 55	.5	2	.7	.2	N	.15	N	N	N	50
P20030	37 36 49	89 41 55	.7	2	1	N	N	.2	N	N	N	50
P20040	37 36 49	89 41 55	.2	.7	.02	N	N	.015	N	N	N	15
P20050	37 36 49	89 41 55	.07	1	.03	N	N	.01	N	N	N	10
P20060	37 36 49	89 41 55	.2	1	.07	N	N	.015	N	N	N	20
P20070	37 36 49	89 41 55	<.05	.7	<.02	N	N	.005	N	N	N	20
P20080	37 36 49	89 41 55	.07	1	<.02	N	N	.01	N	N	N	15
P20090	37 36 49	89 41 55	.7	2	.03	N	N	.007	N	N	N	15
P20100	37 36 49	89 41 55	.5	1	.1	N	N	.07	N	N	N	30
P20110	37 36 49	89 41 55	.7	.3	.05	N	N	.01	N	N	N	20
P20120	37 36 49	89 41 55	.2	2	.03	N	N	.02	N	N	N	15
P20130	37 36 49	89 41 55	.05	2	.02	N	N	.02	N	N	N	15
P20140	37 36 49	89 41 55	.1	1.5	<.02	N	N	.015	N	N	N	15
P20150	37 36 49	89 41 55	.1	2	.5	N	N	.07	N	N	N	20
P20160	37 36 49	89 41 55	5	3	5	<.2	N	.2	N	N	N	100
P20170	37 36 49	89 41 55	2	2	5	<.2	N	.2	N	N	N	150
P20180	37 36 49	89 41 55	.3	2	3	<.2	N	.3	N	N	N	100
P20190	37 36 49	89 41 55	1	3	2	.2	N	.3	1	N	N	100
P20200	37 36 49	89 41 55	.7	5	3	.2	N	.3	N	N	N	150
P20210	37 36 49	89 41 55	15	1.5	5	N	N	.1	N	N	N	30
P20220	37 36 49	89 41 55	10	5	7	N	N	.2	N	N	N	50
P20230	37 36 49	89 41 55	3	3	5	N	N	.5	N	N	N	100
P20240	37 36 49	89 41 55	5	10	3	N	N	.5	N	N	N	70
P20250	37 36 49	89 41 55	20	1.5	7	N	N	.2	N	N	N	70
P20260	37 36 49	89 41 55	3	3	3	.2	N	.5	N	N	N	100
P20270	37 36 49	89 41 55	.7	3	2	.2	N	.3	N	N	N	100
P20280	37 36 49	89 41 55	5	1.5	5	<.2	N	.2	N	N	N	70
P20290	37 36 49	89 41 55	3	2	2	N	N	.2	N	N	N	30
P20300	37 36 49	89 41 55	1.5	3	3	.2	N	.5	<.5	N	N	150
P20310	37 36 49	89 41 55	2	3	1	.2	N	.3	N	N	N	70
P20320	37 36 49	89 41 55	.3	1.5	1	N	N	.15	N	N	N	50
P20330	37 36 49	89 41 55	3	2	5	.3	N	.3	N	N	N	200
P20340	37 36 49	89 41 55	.5	5	3	N	N	.5	N	N	N	150
P20350	37 36 49	89 41 55	5	1.5	2	.3	N	.3	N	N	N	150
P20360	37 36 49	89 41 55	1	3	5	.2	N	.5	N	N	N	200
P20370	37 36 49	89 41 55	2	2	3	.2	N	.5	N	N	N	100
P20380	37 36 49	89 41 55	2	3	3	.2	N	.3	N	N	N	100
P20390	37 36 49	89 41 55	3	1.5	5	.2	N	.2	N	N	N	70
P20400	37 36 49	89 41 55	2	1.5	3	.2	N	.2	N	N	N	100
P20410	37 36 49	89 41 55	.2	1.5	1	<.2	N	.2	N	N	N	30
P20420	37 36 49	89 41 55	.3	1	.7	N	N	.15	N	N	N	50
P20430	37 36 49	89 41 55	3	2	3	.2	N	.5	N	N	N	50
P20440	37 36 49	89 41 55	1.5	1.5	3	.2	N	.5	N	N	N	70
P20450	37 36 49	89 41 55	.2	.7	.7	N	N	.1	N	N	N	20
P20460	37 36 49	89 41 55	.7	2	2	.2	N	.2	N	N	N	100
P20470	37 36 49	89 41 55	2	1	5	<.2	N	.2	N	N	N	70
P20480	37 36 49	89 41 55	N	.5	.2	N	N	.05	N	N	N	15
P20490	37 36 49	89 41 55	.2	1	2	<.2	N	.2	N	N	N	50
P20500	37 36 49	89 41 55	.3	1	1.5	<.2	N	.2	N	N	N	70
P20510	37 36 49	89 41 55	.2	2	1.5	<.2	N	.2	N	N	N	70
P20520	37 36 49	89 41 55	N	.2	.1	N	N	.03	N	N	N	10
P20530	37 36 49	89 41 55	<.05	.3	.2	N	N	.02	N	N	N	10
P20540	37 36 49	89 41 55	3	1.5	5	N	N	.2	N	N	N	70
P20550	37 36 49	89 41 55	<.05	.2	.3	N	N	.02	N	N	N	<10
P20560	37 36 49	89 41 55	N	.05	<.02	N	N	.005	N	N	N	N
P20570	37 36 49	89 41 55	.15	.2	.15	N	N	.015	N	N	N	N
P20580	37 36 49	89 41 55	<.05	.1	.07	N	N	.007	N	N	N	N
P20590	37 36 49	89 41 55	N	.07	.05	N	N	.005	N	N	N	N
P20600	37 36 49	89 41 55	N	.07	.05	N	N	.005	N	N	N	N
P20610	37 36 49	89 41 55	N	.05	<.02	N	N	.002	N	N	N	N

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P2, 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
P20020	200	N	N	N	N	15	10	7	N	N	30	N	N
P20030	150	<1	N	N	N	20	10	10	N	N	30	N	N
P20040	<20	N	N	N	N	N	N	N	N	N	10	N	N
P20050	<20	N	N	N	N	<10	N	N	N	N	20	N	N
P20060	30	N	N	N	N	10	<5	N	N	N	20	N	N
P20070	<20	N	N	N	N	N	N	N	N	N	15	N	N
P20080	<20	N	N	N	N	15	<5	N	N	N	20	N	N
P20090	N	N	N	N	N	70	5	N	N	N	70	N	N
P20100	70	N	N	N	N	N	15	N	N	N	10	N	N
P20110	N	N	N	N	N	N	N	N	N	N	N	N	N
P20120	30	<1	N	N	N	50	<5	<5	N	N	100	N	N
P20130	20	N	N	N	N	30	5	N	N	N	70	N	N
P20140	<20	N	N	N	N	15	N	N	N	N	20	N	N
P20150	50	N	N	N	N	20	15	5	N	N	50	<5	N
P20160	500	<1	N	N	15	70	20	50	N	<50	70	<5	N
P20170	300	1	N	N	10	70	10	30	N	N	70	N	N
P20180	3,000	<1	N	N	<10	100	20	50	N	N	70	10	N
P20190	2,000	<1	N	N	<10	70	30	30	N	N	100	50	N
P20200	2,000	1	N	N	15	150	50	70	N	N	150	5	N
P20210	1,500	N	N	N	N	20	10	15	N	N	70	15	N
P20220	300	<1	N	N	N	30	15	15	N	N	150	5	N
P20230	500	1	N	N	<10	50	20	70	N	N	150	10	N
P20240	1,000	N	N	N	10	100	30	70	N	N	200	20	<20
P20250	5,000	<1	N	N	N	30	15	30	N	N	100	<5	N
P20260	5,000	<1	N	N	15	150	50	70	N	N	150	15	N
P20270	200	N	N	N	10	100	15	70	N	N	100	N	N
P20280	150	<1	N	N	<10	50	20	50	N	N	100	<5	N
P20290	3,000	N	N	N	<10	20	30	10	N	N	70	7	N
P20300	2,000	1	N	N	15	150	70	50	N	N	100	10	<20
P20310	5,000	<1	N	N	<10	50	30	20	N	N	70	15	N
P20320	5,000	N	N	N	N	20	10	15	N	N	30	<5	N
P20330	700	1	N	N	15	70	50	50	N	N	100	20	N
P20340	>5,000	1	N	N	15	100	50	20	N	N	150	50	<20
P20350	5,000	N	N	N	N	30	15	20	N	N	50	15	N
P20360	3,000	1.5	N	N	10	100	30	70	N	N	150	<5	N
P20370	>5,000	<1	N	N	<10	70	30	20	N	N	70	20	N
P20380	5,000	1.5	N	N	10	70	20	30	N	N	200	10	N
P20390	>5,000	1.5	N	N	<10	50	20	30	N	N	100	5	N
P20400	3,000	N	N	N	N	50	15	20	N	N	30	<5	N
P20410	500	N	N	N	N	30	15	10	N	N	20	N	N
P20420	2,000	N	N	N	N	15	15	<5	N	N	10	N	N
P20430	>5,000	<1	N	N	15	70	30	30	N	N	50	5	N
P20440	1,000	<1	N	N	10	50	20	30	N	N	30	N	N
P20450	700	N	N	N	N	<10	7	N	N	N	N	N	N
P20460	700	<1	N	N	<10	50	20	30	N	N	30	<5	N
P20470	1,000	<1	N	N	<10	30	20	20	N	N	50	N	N
P20480	700	N	N	N	N	N	5	N	N	N	N	N	N
P20490	500	N	N	N	N	30	7	15	N	N	10	N	N
P20500	1,500	N	N	N	N	20	15	20	N	N	15	N	N
P20510	1,000	N	N	N	<10	20	20	30	N	N	20	N	N
P20520	500	N	N	N	N	N	<5	N	N	N	N	N	N
P20530	30	N	N	N	N	N	<5	N	N	N	N	N	N
P20540	500	N	N	N	<10	30	20	10	N	N	30	50	N
P20550	30	N	N	N	N	N	N	N	N	N	N	10	N
P20560	N	N	N	N	N	N	N	N	N	N	N	N	N
P20570	20	N	N	N	N	N	<5	N	N	N	N	<5	N
P20580	30	N	N	N	N	N	<5	N	N	N	N	5	N
P20590	<20	N	N	N	N	N	N	N	N	N	N	N	N
P20600	N	N	N	N	N	N	N	N	N	N	N	<5	N
P20610	N	N	N	N	N	N	10	N	N	N	N	N	N

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P2, 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 #
P20020	15	N	N	<5	N	N	N	50	N	N	N	150	.04	26
P20030	20	N	N	<5	N	N	N	50	N	N	N	100	.08	26
P20040	5	N	N	N	N	N	N	15	N	N	200	10	<.01	26
P20050	5	N	N	N	N	N	N	50	N	N	N	<10	<.01	26
P20060	7	N	N	N	N	N	N	30	N	N	N	10	<.01	26
P20070	<5	N	N	N	N	N	N	30	N	N	N	N	<.01	26
P20080	5	N	N	N	N	N	N	50	N	N	N	10	<.01	26
P20090	7	N	N	N	N	<100	N	70	N	N	N	<10	.21	26
P20100	10	N	N	N	N	<100	N	20	N	N	N	30	<.01	26
P20110	N	N	N	N	N	N	N	15	N	N	N	N	.24	26
P20120	7	N	N	N	N	N	N	70	N	N	N	30	.04	26
P20130	10	N	N	N	N	N	N	50	N	N	N	20	.01	26
P20140	5	N	N	N	N	N	N	50	N	N	N	<10	.02	26
P20150	15	N	N	N	N	N	N	70	N	N	N	50	.09	26
P20160	30	10	N	5	N	<100	N	100	N	N	N	70	.36	26
P20170	20	<10	N	5	N	<100	N	100	N	N	N	70	.42	29
P20180	20	10	N	<5	N	>5,000	N	100	N	N	N	100	.27	29
P20190	30	50	N	<5	N	>5,000	N	100	N	N	<200	100	.2	29
P20200	50	10	N	5	N	>5,000	N	100	N	N	N	100	.66	29
P20210	15	10	N	N	N	>5,000	N	50	N	N	N	30	2.62	29
P20220	20	10	N	N	N	2,000	N	50	N	N	500	50	1.19	29
P20230	20	20	N	<5	N	5,000	N	100	N	N	700	70	.94	29
P20240	50	15	N	<5	N	>5,000	N	100	N	N	5,000	100	4.31	29
P20250	15	500	N	<5	<10	1,500	N	50	N	N	3,000	30	25.1	29
P20260	30	20	N	5	N	300	N	100	N	N	N	100	.33	29
P20270	30	N	N	<5	N	500	N	100	N	N	N	50	.32	29
P20280	20	<10	N	N	N	1,000	N	70	N	N	N	20	.2	29
P20290	20	10	N	N	N	>5,000	N	70	N	N	1,000	30	.66	29
P20300	50	10,000	1,000	7	70	>5,000	N	100	N	N	N	70	.3	29
P20310	30	70	N	<5	N	>5,000	N	70	N	N	200	70	1.12	29
P20320	10	1,000	<100	N	<10	>5,000	N	30	N	N	3,000	100	.11	29
P20330	30	15	N	<5	N	5,000	N	100	N	N	N	70	.38	29
P20340	70	20	N	<5	N	5,000	N	100	N	N	700	100	.52	29
P20350	20	<10	N	N	N	2,000	N	70	N	N	N	70	4.82	29
P20360	30	10	N	7	N	>5,000	N	100	N	N	N	70	.42	30
P20370	20	10	N	<5	N	3,000	N	70	N	N	N	150	.7	30
P20380	30	20	N	N	N	700	N	100	N	N	N	70	.29	30
P20390	20	30	N	N	N	200	N	70	N	N	N	70	1.9	30
P20400	20	<10	N	N	N	<100	N	100	N	N	N	50	.5	30
P20410	15	<10	N	N	N	N	N	70	N	N	N	150	.14	30
P20420	15	N	N	N	N	300	N	50	N	N	N	150	.16	30
P20430	30	30	N	<5	N	<100	N	70	N	<10	N	200	.78	30
P20440	30	15	N	<5	N	100	N	100	N	N	N	200	.25	30
P20450	10	N	N	N	N	300	N	30	N	N	N	100	.11	30
P20460	20	10	N	N	N	<100	N	70	N	N	N	300	.2	30
P20470	20	15	N	N	N	N	N	70	N	N	N	150	.16	30
P20480	5	N	N	N	N	N	N	15	N	N	N	70	.08	30
P20490	15	<10	N	N	N	N	N	50	N	N	N	100	.26	30
P20500	15	10	N	N	N	N	N	70	N	N	N	150	.15	30
P20510	20	70	N	N	N	<100	N	70	N	N	N	150	.18	30
P20520	<5	N	N	N	N	N	N	15	N	N	N	50	.04	30
P20530	<5	N	N	N	N	N	N	10	N	N	N	30	.04	30
P20540	20	20	N	N	N	<100	N	50	N	N	500	100	.2	30
P20550	N	N	N	N	N	N	N	10	N	N	200	70	.04	30
P20560	N	N	N	N	N	N	N	N	N	N	N	<10	.02	32
P20570	N	N	N	N	N	N	N	N	N	N	500	50	.02	32
P20580	N	N	N	N	N	N	N	N	N	N	200	15	.02	32
P20590	N	N	N	N	N	N	N	N	N	N	N	20	.02	32
P20600	N	N	N	N	N	N	N	N	N	N	N	15	.01	32
P20610	N	N	N	N	N	N	N	N	N	N	N	10	.02	32

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P2, 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
P20620	37 36 49	89 41 55	N	<.05	<.02	N	N	<.002	N	N	N	N
P20630	37 36 49	89 41 55	<.05	.5	.7	N	N	.03	N	N	N	30
P20640	37 36 49	89 41 55	N	.05	.02	N	N	.003	N	N	N	N
P20645	37 36 49	89 41 55	N	.07	.03	N	N	.005	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
P20620	N	N	N	N	N	N	N	N	N	N	N	N	N
P20630	50	N	N	N	N	<10	5	<5	N	N	<10	N	N
P20640	<20	N	N	N	N	N	N	N	N	N	N	N	N
P20645	<20	N	N	N	N	N	<5	N	N	N	N	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 #
P20620	N	N	N	N	N	N	N	N	N	N	N	15	<.01	32
P20630	5	N	N	N	N	N	N	20	N	N	N	100	.09	32
P20640	N	N	N	N	N	N	N	N	N	N	N	15	.01	32
P20645	N	N	N	N	N	N	N	N	N	N	N	10	.01	32

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P3, 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
P30010	37 41 3	89 40 59	.07	1.5	.5	1	N	.2	N	N	N	30
P30020	37 41 3	89 40 59	.1	1.5	.5	1	N	.3	N	N	N	50
P30030	37 41 3	89 40 59	.07	.5	.05	N	N	.01	N	N	N	10
P30040	37 41 3	89 40 59	.2	.3	.07	N	N	.015	N	N	N	15
P30050	37 41 3	89 40 59	.2	.1	.1	N	N	.002	N	N	N	10
P30060	37 41 3	89 40 59	2	.2	.7	N	N	.02	N	N	N	10
P30070	37 41 3	89 40 59	2	.3	1.5	N	N	.02	N	N	N	10
P30080	37 41 3	89 40 59	1.5	1	1.5	<.2	N	.1	N	N	N	50
P30090	37 41 3	89 40 59	3	1.5	2	.2	N	.15	N	N	N	50
P30100	37 41 3	89 40 59	2	1.5	1.5	.3	N	.2	N	N	N	50
P30110	37 41 3	89 40 59	1	2	2	.2	N	.3	N	N	N	50
P30120	37 41 3	89 40 59	3	2	3	<.2	N	.3	N	N	N	70
P30130	37 41 3	89 40 59	3	.7	.7	N	N	.05	N	N	N	15
P30140	37 41 3	89 40 59	1.5	.7	1.5	N	N	.07	N	N	N	20
P30150	37 41 3	89 40 59	.7	1.5	1	<.2	N	.15	N	N	N	30
P30160	37 41 3	89 40 59	3	1.5	2	<.2	N	.2	N	N	N	50
P30170	37 41 3	89 40 59	1.5	1.5	1.5	<.2	N	.15	N	N	N	30
P30180	37 41 3	89 40 59	.2	.15	.1	N	N	.005	N	N	N	15
P30190	37 41 3	89 40 59	.1	.1	.1	N	N	.007	N	N	N	10
P30200	37 41 3	89 40 59	.07	.2	.02	N	N	.02	N	N	N	15
P30210	37 41 3	89 40 59	.2	.2	.02	N	N	.007	N	N	N	20
P30220	37 41 3	89 40 59	.5	.7	.7	N	N	.07	N	N	N	15
P30230	37 41 3	89 40 59	.7	1.5	.2	N	N	.1	N	N	N	15
P30240	37 41 3	89 40 59	.1	2	.5	N	N	.2	N	N	N	15
P30250	37 41 3	89 40 59	.2	.2	.1	N	N	.02	N	N	N	10
P30260	37 41 3	89 40 59	1.5	3	1.5	.2	N	.3	N	N	N	50
P30270	37 41 3	89 40 59	2	1.5	1.5	.2	N	.2	N	N	N	50
P30280	37 41 3	89 40 59	.5	2	1	.2	N	.3	N	N	N	70
P30290	37 41 3	89 40 59	.5	3	2	<.2	N	.2	N	N	N	30
P30300	37 41 3	89 40 59	.7	1	2	N	N	.15	N	N	N	70
P30310	37 41 3	89 40 59	.3	2	2	.2	N	.2	N	N	N	20
P30320	37 41 3	89 40 59	.3	1.5	1.5	.2	N	.15	N	N	N	30
P30330	37 41 3	89 40 59	2	1.5	3	<.2	N	.2	N	N	N	70
P30340	37 41 3	89 40 59	1	2	2	<.2	N	.5	N	N	N	50
P30350	37 41 3	89 40 59	1.5	2	2	.2	N	.5	N	N	N	70
P30360	37 41 3	89 40 59	5	2	.5	<.2	N	.2	N	N	N	15
P30370	37 41 3	89 40 59	3	3	.15	<.2	N	.3	N	N	N	<10
P30380	37 41 3	89 40 59	1	2	.7	.2	N	.5	N	N	N	50
P30390	37 41 3	89 40 59	.5	1.5	1	<.2	N	.2	N	N	N	70
P30400	37 41 3	89 40 59	.2	3	1.5	<.2	N	.3	N	N	N	70
P30410	37 41 3	89 40 59	.2	2	1.5	N	N	.15	N	N	N	30
P30420	37 41 3	89 40 59	.2	2	2	<.2	N	.3	N	N	N	50
P30430	37 41 3	89 40 59	.7	1	.5	N	N	.02	N	N	N	<10
P30440	37 41 3	89 40 59	.5	1.5	1.5	<.2	N	.15	N	N	N	30
P30450	37 41 3	89 40 59	2	2	1.5	.5	N	.3	N	N	N	70
P30460	37 41 3	89 40 59	.3	2	1	.2	N	.3	N	N	N	50
P30470	37 41 3	89 40 59	.1	1.5	1	<.2	N	.2	N	N	N	70
P30480	37 41 3	89 40 59	3	2	2	.3	N	.5	N	N	N	70
P30490	37 41 3	89 40 59	.5	2	1.5	<.2	N	.3	N	N	N	70
P30500	37 41 3	89 40 59	.2	2	1.5	<.2	N	.3	N	N	N	50
P30510	37 41 3	89 40 59	.05	2	1.5	<.2	N	.3	N	N	N	70
P30520	37 41 3	89 40 59	.15	3	1	.3	N	.5	N	N	N	50
P30530	37 41 3	89 40 59	5	2	3	.2	N	.5	N	N	N	70
P30540	37 41 3	89 40 59	3	1.5	2	N	N	.2	N	N	N	50
P30550	37 41 3	89 40 59	5	1.5	3	<.2	N	.15	N	N	N	30
P30560	37 41 3	89 40 59	1	1.5	1	<.2	N	.15	N	N	N	50
P30570	37 41 3	89 40 59	.5	1	.7	<.2	N	.2	N	N	N	50
P30580	37 41 3	89 40 59	.3	2	1	<.2	N	.2	N	N	N	50
P30590	37 41 3	89 40 59	.2	1.5	1	N	N	.2	N	N	N	30
P30600	37 41 3	89 40 59	.5	1.5	1	N	N	.15	N	N	N	30

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P3, 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
P30010	500	N	N	N	N	20	5	7	N	N	100	N	N
P30020	700	N	N	N	N	20	7	10	N	N	150	N	<20
P30030	N	N	N	N	N	<10	<5	N	N	N	<10	N	N
P30040	N	N	N	N	N	N	<5	N	N	N	N	N	N
P30050	N	N	N	N	N	N	N	N	N	N	N	N	N
P30060	20	N	N	N	N	N	<5	N	N	N	N	N	N
P30070	20	N	N	N	N	N	N	N	N	N	N	N	N
P30080	100	N	N	N	N	10	7	5	N	N	20	N	N
P30090	150	N	N	N	N	15	10	15	N	N	30	N	N
P30100	150	<1	N	N	N	15	10	10	N	N	30	N	N
P30110	200	N	N	N	<10	70	20	30	N	N	30	<5	N
P30120	200	<1	N	N	<10	30	70	20	N	N	50	N	N
P30130	50	N	N	N	N	<10	5	N	N	N	10	N	N
P30140	70	N	N	N	N	<10	7	N	N	N	<10	N	N
P30150	100	N	N	N	N	20	10	7	N	N	15	N	N
P30160	200	N	N	N	N	20	15	15	N	N	30	N	N
P30170	150	<1	N	N	N	10	10	5	N	N	20	<5	N
P30180	N	N	N	N	N	N	<5	N	N	N	N	N	N
P30190	N	N	N	N	N	N	N	N	N	N	N	N	N
P30200	<20	N	N	N	N	N	<5	N	N	N	10	N	N
P30210	<20	N	N	N	N	N	15	N	N	N	N	N	N
P30220	70	N	N	N	N	<10	10	N	N	N	<10	N	N
P30230	100	N	N	N	N	10	10	<5	N	N	20	N	N
P30240	150	N	N	N	N	15	30	10	N	N	30	N	N
P30250	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P30260	300	<1	N	N	<10	30	30	20	N	N	150	N	N
P30270	150	1	N	N	N	15	10	10	N	N	100	N	N
P30280	1,000	N	N	N	<10	20	15	20	N	N	70	<5	N
P30290	200	N	N	N	<10	30	20	30	N	N	100	<5	N
P30300	100	<1	N	N	<10	15	5	5	N	N	30	N	N
P30310	200	N	N	N	<10	30	50	20	N	N	50	N	N
P30320	1,500	N	N	N	N	20	20	20	N	N	20	5	N
P30330	2,000	<1	N	N	N	20	20	15	N	N	30	<5	N
P30340	700	1	N	N	<10	50	30	30	N	N	50	15	N
P30350	500	<1	N	N	<10	70	20	50	N	N	50	20	N
P30360	2,000	N	N	N	N	15	15	10	N	N	50	5	<20
P30370	700	N	N	N	N	<10	10	5	N	N	70	10	<20
P30380	300	N	N	N	N	20	20	10	N	N	30	15	<20
P30390	150	<1	N	N	<10	30	15	15	N	N	15	<5	N
P30400	200	<1	N	N	10	70	30	20	N	N	70	5	N
P30410	5,000	<1	N	N	<10	30	15	15	N	N	30	5	N
P30420	500	<1	N	N	<10	70	20	20	N	N	20	<5	N
P30430	>5,000	N	N	N	N	N	<5	N	N	N	N	<5	N
P30440	5,000	N	N	N	N	20	20	15	N	N	15	7	N
P30450	5,000	<1	N	N	<10	70	30	30	N	N	30	20	<20
P30460	3,000	<1	N	N	10	30	20	5	N	N	30	7	N
P30470	>5,000	1	N	N	<10	20	20	7	N	N	20	5	N
P30480	>5,000	1	N	N	10	70	50	50	N	N	50	20	N
P30490	>5,000	1.5	N	N	<10	20	15	10	N	N	20	<5	N
P30500	700	<1	N	N	<10	50	15	20	N	N	15	5	N
P30510	1,000	1	N	N	<10	50	15	30	N	N	20	N	N
P30520	700	<1	N	N	15	70	50	20	N	N	50	30	N
P30530	1,500	1	N	N	10	70	30	30	N	N	20	10	N
P30540	1,500	<1	N	N	<10	20	15	5	N	N	50	<5	N
P30550	1,000	N	N	N	N	20	20	10	N	N	15	5	N
P30560	2,000	N	N	N	N	15	50	7	N	N	15	<5	N
P30570	1,500	N	N	N	N	15	10	5	N	N	15	<5	N
P30580	2,000	N	N	N	N	15	20	7	N	N	20	50	N
P30590	700	N	N	N	<10	20	20	10	N	N	30	5	N
P30600	500	N	N	N	N	20	15	7	N	N	10	5	N

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P3, 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 #
P30010	15	N	N	<5	N	N	N	70	N	<10	N	200	.03	26
P30020	15	<10	N	<5	N	N	N	70	N	<10	N	300	.03	26
P30030	<5	N	N	N	N	N	N	15	N	N	N	<10	.01	26
P30040	7	N	N	N	N	N	N	N	N	N	N	N	.04	26
P30050	N	N	N	N	N	N	N	N	N	N	N	N	.06	26
P30060	20	N	N	N	N	N	N	10	N	N	N	<10	.04	26
P30070	N	N	N	N	N	N	N	10	N	N	N	N	.22	26
P30080	10	<10	N	N	N	N	N	30	N	N	N	20	.42	26
P30090	15	<10	N	N	N	N	N	50	N	N	1,000	50	.88	26
P30100	10	10	N	N	N	<100	N	50	N	N	N	30	.43	26
P30110	20	10	N	<5	N	N	N	100	N	N	N	70	.7	26
P30120	20	<10	N	<5	N	N	N	70	N	N	N	70	.24	26
P30130	5	N	N	N	N	N	N	20	N	N	N	<10	.05	26
P30140	7	N	N	N	N	N	N	20	N	N	N	10	.31	26
P30150	10	N	N	N	N	N	N	50	N	N	N	50	.18	26
P30160	10	N	N	<5	N	<100	N	70	N	N	N	70	.37	26
P30170	30	<10	N	N	N	N	N	30	N	N	N	30	.38	26
P30180	<5	N	N	N	N	N	N	N	N	N	N	N	.32	26
P30190	5	N	N	N	N	N	N	N	N	N	N	N	.04	26
P30200	N	N	N	N	N	N	N	N	N	N	N	N	.06	26
P30210	<5	N	N	N	N	N	N	N	30	N	N	N	.11	26
P30220	10	N	N	N	N	N	N	15	N	N	N	15	.22	26
P30230	10	N	N	N	N	N	N	20	N	N	N	50	.5	26
P30240	20	N	N	N	N	N	N	50	20	N	N	70	.24	26
P30250	<5	N	N	N	N	N	N	N	N	N	N	N	.12	26
P30260	20	10	N	<5	N	N	N	70	N	N	N	70	.71	26
P30270	15	<10	N	<5	N	N	N	50	N	N	N	30	.74	26
P30280	20	<10	N	<5	N	N	N	70	N	N	N	50	.39	26
P30290	20	10	N	<5	N	N	N	70	N	N	N	30	.2	26
P30300	15	<10	N	<5	N	N	N	50	N	N	N	20	.32	30
P30310	20	10	N	N	N	150	N	100	N	N	N	50	.23	30
P30320	15	<10	N	<5	N	>5,000	N	50	100	N	N	50	.23	30
P30330	15	<10	N	<5	N	>5,000	N	70	N	N	N	50	.18	30
P30340	30	10	N	<5	N	3,000	N	100	N	N	N	70	.42	30
P30350	30	10	N	5	N	2,000	N	100	<20	N	<200	70	.88	30
P30360	10	<10	N	<5	N	>5,000	N	20	N	N	N	150	5.86	30
P30370	10	<10	N	<5	N	5,000	N	15	N	N	N	100	3.98	30
P30380	30	10	N	<5	N	500	N	100	N	N	N	100	1.67	30
P30390	20	<10	N	<5	N	1,000	N	70	N	N	N	50	.74	30
P30400	30	<10	N	<5	N	1,500	N	100	<20	N	N	50	.34	30
P30410	20	<10	N	<5	N	>5,000	N	70	100	N	N	30	.18	30
P30420	20	<10	N	<5	N	5,000	N	100	N	N	N	70	.38	30
P30430	<5	N	N	N	N	>5,000	N	15	N	N	N	N	.74	30
P30440	15	<10	N	N	N	>5,000	N	70	N	N	200	50	.32	30
P30450	20	10	N	<5	N	>5,000	N	70	500	N	1,000	70	4.38	30
P30460	30	10	N	N	N	>5,000	N	70	70	N	N	70	.46	30
P30470	70	<10	N	N	N	5,000	N	70	N	N	N	50	.46	30
P30480	30	15	N	<5	N	3,000	N	150	N	N	500	100	2.58	30
P30490	15	10	N	5	N	1,000	N	100	N	N	N	100	.76	30
P30500	20	15	N	<5	N	200	N	100	N	N	N	50	.62	30
P30510	20	15	N	<5	N	1,000	N	100	N	N	N	150	.42	30
P30520	70	30	N	<5	N	500	N	100	N	N	N	150	2.78	30
P30530	30	50	N	<5	N	1,000	N	100	N	N	N	150	1.06	30
P30540	20	20	N	N	N	>5,000	N	70	N	N	700	50	.62	30
P30550	20	15	N	N	N	>5,000	N	50	N	N	N	70	.38	30
P30560	15	<10	N	N	N	>5,000	N	50	N	N	N	50	.34	30
P30570	15	<10	N	N	N	>5,000	N	70	N	N	200	70	.54	30
P30580	20	<10	N	N	N	>5,000	N	70	<20	N	N	70	.24	30
P30590	50	15	N	N	N	>5,000	N	50	20	N	N	70	.24	30
P30600	50	N	N	N	N	3,000	N	50	N	N	N	30	.16	30

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P3, 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
P30610	37 41 3	89 40 59	.2	1.5	.3	N	N	.1	N	N	N	20
P30620	37 41 3	89 40 59	.3	.7	.5	N	N	.07	N	N	N	20
P30630	37 41 3	89 40 59	.3	1	.5	N	N	.1	N	N	N	30
P30640	37 41 3	89 40 59	.2	1	.2	N	N	.07	N	N	N	20
P30650	37 41 3	89 40 59	.07	.5	.1	N	N	.03	N	N	N	<10
P30660	37 41 3	89 40 59	N	.1	.02	N	N	.007	N	N	N	N
P30670	37 41 3	89 40 59	.1	.2	.1	N	N	.02	N	N	N	N
P30680	37 41 3	89 40 59	<.05	.15	.05	N	N	.015	N	N	N	N
P30685	37 41 3	89 40 59	.05	.1	.05	N	N	.005	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
P30610	1,000	N	N	N	N	10	15	<5	N	N	15	15	N
P30620	700	N	N	N	N	10	7	N	N	N	10	<5	N
P30630	300	N	N	N	N	<10	7	N	N	N	10	N	N
P30640	200	N	N	N	N	10	7	N	N	N	10	<5	N
P30650	70	N	N	N	N	N	5	N	N	N	<10	N	N
P30660	<20	N	N	N	N	N	N	N	N	N	N	N	N
P30670	30	N	N	N	N	N	<5	N	N	N	N	N	N
P30680	150	N	N	N	N	N	<5	N	N	N	N	N	N
P30685	N	N	N	N	N	N	N	N	N	N	- N	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 #
P30610	70	20	N	N	N	>5,000	N	20	70	N	N	100	.21	30
P30620	10	<10	N	N	N	>5,000	N	30	N	N	N	15	.14	30
P30630	7	N	N	N	N	>5,000	N	30	N	N	N	20	.16	30
P30640	30	<10	N	N	N	5,000	N	30	N	N	N	50	.17	30
P30650	10	N	N	N	N	1,000	N	10	N	N	N	30	.07	30
P30660	N	N	N	N	N	200	N	N	<20	N	N	15	.02	30
P30670	<5	N	N	N	N	500	N	<10	N	N	N	10	.03	30
P30680	<5	N	N	N	N	2,000	N	N	N	N	N	15	.02	30
P30685	N	N	N	N	N	<100	N	N	N	N	N	- 10	.01	30

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P4, 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
P40010	37 40 26	89 46 6	1	2	1	<.2	N	.1	N	N	N	50
P40020	37 40 26	89 46 6	.1	2	.3	<.2	N	.3	N	N	N	30
P40030	37 40 26	89 46 6	.15	1	.1	N	N	.1	N	N	N	20
P40040	37 40 26	89 46 6	.2	.3	.15	N	N	.05	N	N	N	15
P40050	37 40 26	89 46 6	.7	.7	.2	N	N	.07	N	N	N	20
P40060	37 40 26	89 46 6	1	2	1	.2	N	.3	N	N	N	30
P40070	37 40 26	89 46 6	1.5	3	1.5	<.2	N	.2	N	N	N	50
P40080	37 40 26	89 46 6	.7	1.5	.7	N	N	.2	N	N	N	30
P40090	37 40 26	89 46 6	.2	1	.3	N	N	.1	N	N	N	20
P40100	37 40 26	89 46 6	.07	2	.2	.5	N	.3	N	N	N	50
P40110	37 40 26	89 46 6	.3	2	1	.2	N	.15	N	N	N	50
P40120	37 40 26	89 46 6	2	1.5	3	<.2	N	.15	N	N	N	100
P40130	37 40 26	89 46 6	1	2	3	<.2	N	.15	N	N	N	70
P40140	37 40 26	89 46 6	2	2	3	<.2	N	.2	N	N	N	70
P40150	37 40 26	89 46 6	2	1.5	2	<.2	N	.15	N	N	N	50
P40160	37 40 26	89 46 6	5	1	3	N	N	.2	N	N	N	70
P40170	37 40 26	89 46 6	1.5	1.5	2	<.2	N	.2	N	N	N	70
P40180	37 40 26	89 46 6	1.5	3	2	N	N	.5	<.5	N	N	100
P40190	37 40 26	89 46 6	7	1	.5	N	N	.3	N	N	N	15
P40200	37 40 26	89 46 6	.3	1.5	.3	N	N	.1	N	N	N	30
P40210	37 40 26	89 46 6	7	1.5	5	N	N	.2	N	N	N	20
P40220	37 40 26	89 46 6	2	2	1.5	<.2	N	.15	N	N	N	70
P40230	37 40 26	89 46 6	5	3	5	.2	N	.2	N	N	N	100
P40240	37 40 26	89 46 6	2	1.5	2	<.2	N	.15	N	N	N	30
P40250	37 40 26	89 46 6	5	1.5	3	<.2	N	.15	N	N	N	50
P40260	37 40 26	89 46 6	3	2	1.5	<.2	N	.15	N	N	N	20
P40270	37 40 26	89 46 6	5	2	3	.2	N	.2	N	N	N	70
P40280	37 40 26	89 46 6	2	2	1	.2	N	.2	N	N	N	50
P40290	37 40 26	89 46 6	2	1.5	.5	N	N	.1	N	N	N	20
P40300	37 40 26	89 46 6	3	1.5	2	<.2	N	.2	N	N	N	70
P40310	37 40 26	89 46 6	10	1	1.5	<.2	N	.15	N	N	N	30
P40320	37 40 26	89 46 6	5	1.5	1.5	<.2	N	.2	N	N	N	50
P40330	37 40 26	89 46 6	3	2	3	.2	N	.3	N	N	N	150
P40340	37 40 26	89 46 6	10	1.5	3	.2	N	.15	N	N	N	50
P40350	37 40 26	89 46 6	7	1.5	1	N	N	.2	N	N	N	70
P40360	37 40 26	89 46 6	10	2	3	.2	N	.2	N	N	N	50
P40370	37 40 26	89 46 6	2	2	1	<.2	N	.15	N	N	N	70
P40380	37 40 26	89 46 6	.3	2	.7	.2	N	.3	N	N	N	70
P40390	37 40 26	89 46 6	1	1.5	.5	<.2	N	.2	N	N	N	50
P40400	37 40 26	89 46 6	.15	.7	.2	N	N	.07	N	N	N	20
P40410	37 40 26	89 46 6	.1	1	.3	N	N	.1	N	N	N	20
P40420	37 40 26	89 46 6	.05	.5	.07	N	N	.03	N	N	N	10
P40430	37 40 26	89 46 6	.2	1.5	1	<.2	N	.3	N	N	N	70
P40440	37 40 26	89 46 6	.1	1	.5	N	N	.1	N	N	N	30
P40450	37 40 26	89 46 6	.05	1.5	.7	N	N	.15	N	N	N	50
P40460	37 40 26	89 46 6	<.05	.7	.2	N	N	.07	N	N	N	30
P40470	37 40 26	89 46 6	<.05	1	.2	N	N	.07	N	N	N	20
P40480	37 40 26	89 46 6	.1	2	.7	<.2	N	.2	N	N	N	70
P40490	37 40 26	89 46 6	<.05	.5	.15	N	N	.05	N	N	N	15
P40500	37 40 26	89 46 6	N	.2	.02	N	N	.015	N	N	N	N

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P4, 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
P40010	300	N	N	N	N	<10	15	5	N	N	50	N	N
P40020	100	<1	N	N	N	15	10	7	N	N	150	N	<20
P40030	100	N	N	N	N	<10	10	N	N	N	100	N	N
P40040	50	N	N	N	N	N	<5	N	N	N	150	N	N
P40050	70	N	N	N	N	<10	20	N	N	N	20	N	N
P40060	500	N	N	N	<10	30	20	10	N	N	70	N	N
P40070	300	N	N	N	<10	30	30	15	N	N	100	<5	N
P40080	100	N	N	N	N	<10	20	N	N	N	20	N	N
P40090	50	N	N	N	N	N	5	N	N	N	15	N	N
P40100	300	<1	N	N	N	20	10	10	N	N	200	N	<20
P40110	500	N	N	N	<10	15	20	10	N	N	100	<5	N
P40120	150	<1	N	N	10	20	10	15	N	N	50	N	N
P40130	150	<1	N	N	10	50	15	20	N	N	30	N	N
P40140	5,000	<1	N	N	15	50	50	30	N	N	70	<5	N
P40150	>5,000	N	N	N	<10	30	30	20	N	N	20	7	N
P40160	1,000	N	N	N	<10	15	15	7	N	N	20	10	N
P40170	2,000	N	N	N	10	30	20	20	N	N	20	20	N
P40180	1,000	1	N	N	15	70	50	50	N	N	700	30	<20
P40190	5,000	N	N	N	N	15	15	<5	N	N	500	10	<20
P40200	300	N	N	N	N	<10	30	N	N	N	200	5	<20
P40210	5,000	N	N	N	N	15	7	<5	N	N	15	20	N
P40220	>5,000	<1	N	N	<10	30	15	20	N	N	30	<5	N
P40230	300	1	N	N	15	70	30	50	N	N	150	<5	N
P40240	700	N	N	N	15	50	20	15	N	N	70	10	N
P40250	150	<1	N	N	10	20	20	20	N	N	70	<5	N
P40260	5,000	N	N	N	<10	20	15	15	N	N	15	20	N
P40270	1,000	<1	N	N	10	70	30	20	N	N	30	7	N
P40280	>5,000	N	N	N	<10	30	50	20	N	N	30	20	N
P40290	>5,000	N	N	N	N	10	7	<5	N	N	10	15	N
P40300	1,000	N	N	N	<10	20	20	20	N	N	50	<5	N
P40310	>5,000	N	N	N	N	20	20	10	N	N	15	10	N
P40320	5,000	N	N	N	10	30	50	15	N	N	30	15	N
P40330	2,000	<1	N	N	15	50	30	30	N	N	70	5	N
P40340	>5,000	N	N	N	10	50	50	20	N	N	50	5	N
P40350	>5,000	N	N	N	<10	20	50	7	N	N	70	<5	N
P40360	2,000	N	N	N	10	70	20	20	N	N	30	20	N
P40370	200	N	N	N	<10	30	30	10	N	N	100	100	N
P40380	700	N	N	N	20	70	30	15	N	N	100	5	<20
P40390	500	N	N	N	<10	15	20	10	N	N	30	7	N
P40400	200	N	N	N	N	<10	7	N	N	N	10	<5	N
P40410	200	N	N	N	N	<10	10	N	N	N	30	10	N
P40420	70	N	N	N	N	N	<5	N	N	N	15	<5	N
P40430	500	<1	N	N	10	30	30	10	N	N	70	100	N
P40440	150	N	N	N	N	<10	15	N	N	N	70	50	N
P40450	200	N	N	N	<10	15	10	<5	N	N	30	15	N
P40460	70	N	N	N	N	<10	5	N	N	N	30	<5	N
P40470	100	N	N	N	N	<10	7	N	N	N	50	5	N
P40480	500	N	N	N	10	30	50	15	N	N	100	30	N
P40490	70	N	N	N	N	N	10	N	N	N	10	5	N
P40500	<20	N	N	N	N	N	<5	N	N	N	<10	<5	N

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P4, 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 #
P40010	15	70	N	N	N	N	N	30	N	N	N	30	.1	26
P40020	20	<10	N	<5	N	N	N	70	N	<10	N	200	.03	26
P40030	7	N	N	N	N	N	N	30	N	N	N	100	.03	26
P40040	5	N	N	N	N	N	N	10	N	N	N	20	.25	26
P40050	10	15	N	N	N	<100	N	15	N	N	N	15	.31	26
P40060	20	20	N	N	N	N	N	70	N	N	N	100	.65	26
P40070	30	10	N	N	N	N	N	70	N	N	N	70	.39	26
P40080	20	N	N	N	N	<100	N	20	N	N	N	70	.55	26
P40090	7	N	N	N	N	N	N	15	N	N	200	15	.23	26
P40100	20	N	N	<5	N	N	N	100	N	<10	N	300	.02	26
P40110	15	70	N	N	N	N	N	50	N	N	N	50	.13	26
P40120	15	<10	N	<5	N	N	N	70	N	N	N	20	.36	26
P40130	20	N	N	<5	N	N	N	50	N	N	N	30	.36	29,30
P40140	30	<10	N	<5	N	150	N	100	N	N	300	70	.23	29,30
P40150	15	<10	N	<5	N	>5,000	N	70	N	N	N	50	.16	29,30
P40160	20	N	N	N	N	>5,000	N	70	N	N	N	30	.32	29,30
P40170	20	<10	N	N	N	>5,000	N	70	N	N	N	50	.96	29,30
P40180	100	30	N	<5	N	>5,000	N	100	<20	N	2,000	100	.67	29,30
P40190	15	50	N	N	N	>5,000	N	50	30	N	1,000	50	.75	29,30
P40200	50	10	N	N	N	5,000	N	30	700	N	N	30	.83	29,30
P40210	30	10	N	N	N	>5,000	N	50	N	N	N	50	.27	29,30
P40220	20	30	N	<5	N	>5,000	N	50	N	N	N	30	.31	29,30
P40230	30	10	N	5	N	3,000	N	100	N	N	N	70	.26	29,30
P40240	70	<10	N	N	N	>5,000	N	70	N	N	N	30	.36	29,30
P40250	30	10	N	N	N	5,000	N	100	N	N	N	15	.19	29,30
P40260	30	10	N	N	N	>5,000	N	50	N	N	300	30	1.98	29,30
P40270	30	<10	N	<5	N	>5,000	N	70	<20	N	N	70	.45	29,30
P40280	30	10	N	<5	N	>5,000	N	70	200	N	500	100	.82	29,30
P40290	15	10	N	N	N	>5,000	N	20	200	N	N	70	1.46	29,30
P40300	30	<10	N	N	N	>5,000	N	100	N	N	N	70	.27	29,30
P40310	20	<10	N	N	N	>5,000	N	50	50	N	N	70	10.1	29,30
P40320	30	15	N	N	N	>5,000	N	70	N	N	N	70	4.71	29,30
P40330	50	20	N	<5	N	5,000	N	100	N	N	N	100	1.01	29,30
P40340	20	20	N	<5	N	2,000	N	50	N	N	N	100	6.98	29,30
P40350	30	15	N	N	N	3,000	N	70	50	N	N	100	3.75	29,30
P40360	30	30	N	<5	N	2,000	N	100	N	<10	N	150	7.58	29,30
P40370	30	20	N	N	N	150	N	70	N	N	N	100	2	29,30
P40380	100	70	N	<5	N	<100	N	100	N	<10	N	1,000	.41	29,30
P40390	20	10	N	N	N	<100	N	30	<20	N	N	200	1.86	29,30
P40400	10	N	N	N	N	N	N	15	20	N	N	100	.32	29,30
P40410	10	N	N	N	N	N	N	20	150	N	N	100	.11	29,30
P40420	10	N	N	N	N	<100	N	10	100	N	N	30	.12	29,30
P40430	30	<10	N	N	N	<100	N	100	70	N	N	200	.16	29,30
P40440	15	N	N	N	N	N	N	30	50	N	N	70	.09	29,30
P40450	20	N	N	N	N	<100	N	50	100	N	N	100	.13	29,30
P40460	10	N	N	N	N	N	N	20	20	N	N	70	.07	29,30
P40470	15	N	N	N	N	N	N	20	30	N	N	70	.05	29,30
P40480	30	15	N	N	N	<100	N	70	N	N	<200	150	.12	29,30
P40490	10	N	N	N	N	N	N	15	N	N	N	70	.03	29,30
P40500	5	N	N	N	N	N	N	<10	N	N	N	15	.01	29,30

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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.
			s	s	s	s	s	s
P50020	37 40 22	89 33 2	.1	1.5	.3	.7	N	.3
P50030	37 40 22	89 33 2	.07	1.5	.2	.7	N	.5
P50040	37 40 22	89 33 2	N	1	.15	N	N	.3
P50050	37 40 22	89 33 2	<.05	.5	.1	N	N	.15
P50060	37 40 22	89 33 2	N	.7	.1	N	N	.2
P50070	37 40 22	89 33 2	N	.5	.1	N	N	.15
P50080	37 40 22	89 33 2	<.05	1	.07	N	N	.2
P50090	37 40 22	89 33 2	N	.5	.1	N	N	.15
P50100	37 40 22	89 33 2	N	.7	.1	N	N	.2
P50110	37 40 22	89 33 2	<.05	.5	.07	N	N	.2
P50120	37 40 22	89 33 2	N	.5	.07	N	N	.1
P50130	37 40 22	89 33 2	<.05	1	.1	N	N	.15
P50140	37 40 22	89 33 2	N	.7	.05	N	N	.15
P50150	37 40 22	89 33 2	.5	5	.5	N	N	.3
P50160	37 40 22	89 33 2	.15	1	.7	N	N	.5
P50170	37 40 22	89 33 2	.3	2	.15	N	N	.3
P50180	37 40 22	89 33 2	.15	7	.5	N	N	.15
P50190	37 40 22	89 33 2	.3	7	.5	N	N	.5
P50200	37 40 22	89 33 2	.1	5	.3	N	N	.1
P50210	37 40 22	89 33 2	.15	5	.3	N	N	.2
P50220	37 40 22	89 33 2	<.05	5	.2	N	N	.1
P50230	37 40 22	89 33 2	.07	7	.3	N	N	.2
P50240	37 40 22	89 33 2	<.05	3	1	<.2	N	.3
P50250	37 40 22	89 33 2	<.05	3	.5	N	N	.15
P50260	37 40 22	89 33 2	.05	5	.5	N	N	.2
P50270	37 40 22	89 33 2	.07	7	1	<.2	N	.5
P50280	37 40 22	89 33 2	.05	5	.7	<.2	N	.3
P50290	37 40 22	89 33 2	.05	2	.3	N	N	.2
P50300	37 40 22	89 33 2	<.05	.5	.1	N	N	.03
P50310	37 40 22	89 33 2	.05	.7	.1	N	N	.05
P50320	37 40 22	89 33 2	.05	.5	.05	N	N	.02
P50330	37 40 22	89 33 2	.3	2	1.5	.2	N	.5
P50340	37 40 22	89 33 2	1.5	.2	.07	N	N	.01
P50350	37 40 22	89 33 2	.5	1.5	.5	N	N	.2
P50360	37 40 22	89 33 2	.2	2	.3	N	N	.1
P50370	37 40 22	89 33 2	<.05	.3	.02	N	N	.01
P50380	37 40 22	89 33 2	.1	1	.05	N	N	.05
P50390	37 40 22	89 33 2	.3	.2	.03	N	N	.01
P50400	37 40 22	89 33 2	.15	.1	.05	N	N	.01
P50420	37 40 22	89 33 2	.07	.15	.05	N	N	.015
P50440	37 40 22	89 33 2	.5	1.5	.1	N	N	.05
P50460	37 40 22	89 33 2	.3	1	.3	N	N	.07
P50480	37 40 22	89 33 2	.5	.5	.15	N	N	.05
P50500	37 40 22	89 33 2	.2	3	1	<.2	N	.3
P50520	37 40 22	89 33 2	.2	2	1	.2	N	.5
P50540	37 40 22	89 33 2	1	.5	.02	N	N	.002
P50560	37 40 22	89 33 2	.5	.7	.05	N	N	.02
P50580	37 40 22	89 33 2	1	3	.5	N	N	.2
P50600	37 40 22	89 33 2	.2	3	.7	.2	N	.3
P50620	37 40 22	89 33 2	.3	2	.15	N	N	.07
P50640	37 40 22	89 33 2	1	.7	.15	N	N	.05
P50660	37 40 22	89 33 2	.15	1.5	.7	<.2	N	.2
P50680	37 40 22	89 33 2	.15	10	.2	N	N	.07
P50700	37 40 22	89 33 2	.2	1.5	.3	N	N	.07
P50720	37 40 22	89 33 2	.3	1	.1	N	N	.07
P50740	37 40 22	89 33 2	.3	7	.5	<.2	N	.3
P50760	37 40 22	89 33 2	.07	5	.7	.2	N	.3
P50780	37 40 22	89 33 2	.7	5	.03	N	N	.01
P50800	37 40 22	89 33 2	.15	3	1	N	N	.5
P50820	37 40 22	89 33 2	.15	5	.1	N	N	.03

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P50020	N	N	N	20	500	N	N	N	15	15	10
P50030	N	N	N	20	300	N	N	N	20	20	5
P50040	N	N	N	30	1,000	N	N	N	<10	15	7
P50050	N	N	N	20	1,000	N	N	N	N	20	<5
P50060	N	N	N	20	700	N	N	N	N	15	7
P50070	N	N	N	15	200	N	N	N	N	10	5
P50080	N	N	N	15	500	N	N	N	N	15	<5
P50090	N	N	N	15	500	N	N	N	N	10	5
P50100	N	N	N	20	700	N	N	N	N	5	<5
P50110	N	N	N	20	500	N	N	N	N	10	<5
P50120	N	N	N	20	500	N	N	N	N	<10	<5
P50130	N	N	N	15	1,500	N	N	N	N	<10	30
P50140	N	N	N	15	2,000	N	N	N	N	15	7
P50150	N	N	N	100	150	1	N	N	<10	70	20
P50160	N	N	N	70	200	N	N	N	N	30	5
P50170	N	N	N	50	500	N	N	N	<10	20	15
P50180	N	N	N	70	700	1	N	N	70	20	50
P50190	N	N	N	100	3,000	<1	N	N	10	100	20
P50200	N	N	N	30	1,500	N	N	N	10	20	30
P50210	N	N	N	50	5,000	<1	N	N	20	200	50
P50220	N	N	N	20	2,000	N	N	N	10	30	30
P50230	N	N	N	50	>5,000	N	N	N	30	100	20
P50240	N	N	N	70	300	2	N	N	<10	70	20
P50250	N	N	N	50	5,000	1	N	N	<10	20	10
P50260	N	N	N	50	700	<1	N	N	<10	70	20
P50270	N	N	N	70	500	2	N	N	<10	50	20
P50280	N	N	N	70	300	1.5	N	N	10	70	30
P50290	N	N	N	50	1,500	<1	N	N	10	15	15
P50300	N	N	N	30	100	N	N	N	N	N	<5
P50310	N	N	N	20	500	N	N	N	N	<10	<5
P50320	N	N	N	20	30	N	N	N	N	N	5
P50330	N	N	N	100	300	1.5	N	N	15	200	20
P50340	N	N	N	15	100	N	N	N	N	N	<5
P50350	N	N	N	70	200	<1	N	N	N	100	30
P50360	<.5	N	N	50	3,000	N	N	N	N	30	30
P50370	N	N	N	30	70	N	N	N	N	N	5
P50380	<.5	N	N	30	1,000	N	N	N	N	10	7
P50390	N	N	N	50	70	N	N	N	N	N	5
P50400	N	N	N	30	<20	N	N	N	N	N	<5
P50420	N	N	N	20	20	N	N	N	N	N	<5
P50440	1.5	N	N	50	100	N	N	N	N	<10	15
P50460	N	N	N	70	150	N	N	N	N	10	7
P50480	N	N	N	30	30	N	N	N	N	<10	5
P50500	N	N	N	150	300	1	N	N	<10	100	20
P50520	N	N	N	150	500	<1	N	N	20	150	30
P50540	N	N	N	15	50	N	N	N	N	N	<5
P50560	N	N	N	30	20	N	N	N	N	N	5
P50580	N	N	N	50	300	<1	N	N	<10	15	10
P50600	N	N	N	100	3,000	<1	N	N	10	30	15
P50620	N	N	N	70	1,000	N	N	N	10	10	10
P50640	N	N	N	50	1,500	N	N	N	N	<10	<5
P50660	<.5	N	N	100	200	N	N	N	15	20	20
P50680	.5	N	N	30	100	N	N	N	20	10	30
P50700	N	N	N	70	>5,000	N	N	N	<10	10	10
P50720	<.5	N	N	50	100	N	N	N	<10	<10	15
P50740	.7	N	N	70	5,000	N	N	N	30	50	30
P50760	1	N	N	100	2,000	1.5	N	N	20	70	50
P50780	.5	N	N	15	>5,000	N	N	150	N	N	30
P50800	.5	N	N	200	5,000	1	N	<20	15	70	50
P50820	N	N	N	30	>5,000	N	N	300	<10	<10	30

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P50020	7	N	N	500	N	N	20	50	N	N
P50030	5	N	N	70	N	N	15	200	N	N
P50040	N	N	N	100	N	N	20	30	N	N
P50050	N	N	N	15	N	N	7	15	N	N
P50060	N	N	N	<10	N	N	10	N	N	N
P50070	N	N	N	N	N	N	7	N	N	N
P50080	N	N	N	20	N	N	10	20	N	N
P50090	N	N	N	10	N	N	10	150	N	N
P50100	N	N	N	30	N	N	10	100	N	N
P50110	N	N	N	<10	N	N	5	N	N	N
P50120	N	N	N	N	N	N	10	30	N	N
P50130	N	N	N	10	N	N	10	50	N	N
P50140	N	N	N	<10	N	N	7	700	N	N
P50150	15	N	<50	70	15	N	50	150	N	<5
P50160	<5	N	N	<10	N	N	20	300	N	N
P50170	N	N	N	10	N	N	70	N	N	N
P50180	15	N	N	<10	N	N	70	<10	N	N
P50190	15	N	N	15	N	<20	100	15	N	<5
P50200	7	N	N	15	7	N	70	10,000	N	N
P50210	10	N	N	100	30	N	70	500	N	N
P50220	5	N	N	10	7	N	50	100	N	N
P50230	15	N	N	30	20	N	100	500	N	<5
P50240	20	N	N	15	<5	N	30	20	N	5
P50250	10	N	N	10	N	N	30	300	N	<5
P50260	10	N	N	20	20	N	30	700	N	<5
P50270	20	N	<50	30	10	<20	30	1,000	N	5
P50280	30	N	N	50	30	<20	100	200	N	<5
P50290	10	N	N	10	N	N	30	50	N	N
P50300	N	N	N	N	N	N	7	100	N	N
P50310	N	N	N	N	N	N	15	N	N	N
P50320	N	N	N	N	N	N	20	10	N	N
P50330	30	N	<50	15	<5	<20	150	300	N	7
P50340	N	N	N	N	N	N	5	150	N	N
P50350	7	N	N	50	30	<20	50	70	N	<5
P50360	<5	N	N	20	20	N	30	150	N	N
P50370	N	N	N	N	N	N	7	150	N	N
P50380	N	N	N	<10	<5	N	20	150	N	N
P50390	N	N	N	N	N	N	15	<10	N	N
P50400	N	N	N	N	N	N	20	N	N	N
P50420	N	N	N	N	N	N	20	70	N	N
P50440	N	N	N	N	50	N	20	20	N	N
P50460	N	N	N	<10	5	N	15	700	N	N
P50480	N	N	N	N	<5	N	10	150	N	N
P50500	20	N	N	20	100	<20	50	500	N	<5
P50520	20	N	N	20	15	<20	150	500	N	<5
P50540	N	N	N	N	N	N	7	500	N	N
P50560	N	N	N	<10	<5	N	7	10	N	N
P50580	10	N	N	20	20	N	20	500	N	N
P50600	10	N	N	20	50	<20	30	20	N	<5
P50620	N	N	N	<10	100	N	30	20	N	N
P50640	N	N	N	N	20	N	15	30	N	N
P50660	7	N	N	20	30	N	50	300	N	N
P50680	10	N	N	10	<5	N	70	1,000	N	N
P50700	N	N	N	10	15	N	15	200	N	N
P50720	N	N	N	<10	10	N	20	15,000	N	N
P50740	15	N	N	20	30	<20	100	1,000	N	<5
P50760	30	N	N	15	30	<20	70	300	N	5
P50780	N	N	N	N	N	N	20	700	N	N
P50800	20	N	N	10	20	<20	70	700	N	<5
P50820	<5	N	N	10	15	N	50	500	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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 #
P50020	N	N	N	50	<20	<10	N	200	.03	5
P50030	N	N	N	30	50	N	N	150	.03	5
P50040	N	N	N	30	20	<10	N	200	.02	5
P50050	N	N	N	15	N	N	N	150	.02	5
P50060	N	N	N	20	N	N	N	200	.01	5
P50070	N	N	N	20	N	N	N	100	.01	5
P50080	N	N	N	20	N	N	N	150	.01	5
P50090	N	N	N	15	N	N	N	150	.02	5
P50100	N	N	N	20	N	N	N	150	.01	5
P50110	N	N	N	20	N	N	N	500	.02	5
P50120	N	N	N	10	N	N	N	70	.01	5
P50130	N	N	N	15	N	N	N	150	.01	5
P50140	N	N	N	10	50	N	N	200	.01	5
P50150	N	N	N	100	N	N	N	100	.15	6
P50160	N	N	N	100	N	N	N	300	.16	6
P50170	N	N	N	30	N	N	N	500	.04	6
P50180	N	N	N	30	N	N	<200	70	.08	6
P50190	N	N	N	200	N	<10	N	1,000	.11	6
P50200	N	N	N	20	N	N	N	100	.04	6
P50210	N	N	N	50	20	N	N	150	.07	6
P50220	N	N	N	20	20	N	N	70	.06	6
P50230	N	<100	N	30	30	N	300	100	.06	6
P50240	N	N	N	70	N	N	300	100	.17	6
P50250	N	N	N	50	30	N	500	100	.15	6
P50260	N	N	N	50	50	N	200	100	.05	6
P50270	N	N	N	70	150	<10	<200	150	.19	6
P50280	N	N	N	70	700	N	N	150	.15	6
P50290	N	N	N	50	N	N	N	70	.17	6
P50300	N	N	N	10	<20	N	N	10	.08	6
P50310	N	N	N	10	N	N	N	20	.05	6
P50320	N	N	N	10	20	N	N	<10	.04	6
P50330	N	N	N	150	N	<10	N	200	.89	6
P50340	N	N	N	<10	N	N	N	N	1.78	6
P50350	N	N	N	70	N	N	200	70	.11	6
P50360	N	<100	N	20	N	N	1,000	100	--	6
P50370	N	N	N	10	N	N	N	<10	.03	6
P50380	N	N	N	30	N	N	N	150	.04	6
P50390	N	N	N	10	N	N	N	N	.08	6
P50400	N	N	N	10	N	N	N	<10	.18	6
P50420	N	N	N	10	N	N	N	N	.16	6
P50440	N	N	N	20	N	N	N	15	.07	6
P50460	N	N	N	30	N	N	N	70	.7	7
P50480	N	N	N	20	N	N	N	30	.74	7
P50500	N	<100	N	150	N	N	200	70	.26	7
P50520	N	<100	N	100	N	N	300	150	.23	7
P50540	N	N	N	N	N	N	1,000	N	1.5	7
P50560	N	N	N	10	N	N	1,000	<10	.18	7
P50580	N	N	N	70	N	N	300	70	1.34	7
P50600	N	N	N	70	N	N	N	100	.23	7
P50620	N	N	N	30	N	N	N	70	.05	7
P50640	N	N	N	15	N	N	N	20	.07	7
P50660	N	N	N	100	N	N	<200	70	.36	7
P50680	N	N	N	15	N	N	N	50	.07	7
P50700	N	<100	N	30	30	N	<200	20	.17	7
P50720	N	N	N	20	N	N	500	30	.51	7
P50740	N	N	N	100	N	N	200	150	1.06	7
P50760	N	N	N	100	N	N	N	100	.18	7
P50780	N	<100	N	N	N	N	7,000	<10	--	7
P50800	N	N	N	100	N	N	1,000	100	.33	7
P50820	N	N	N	15	50	N	>10,000	70	--	7

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P50840	37 40 22	89 33 2	.2	15	.1	N	N	.05
P50860	37 40 22	89 33 2	.1	5	1.5	N	N	.3
P50880	37 40 22	89 33 2	.07	.15	<.02	N	N	.002
P50900	37 40 22	89 33 2	.05	.15	.02	N	N	.007
P50920	37 40 22	89 33 2	.05	.15	<.02	N	N	.01
P50940	37 40 22	89 33 2	.07	.15	.02	N	N	<.002
P50960	37 40 22	89 33 2	.07	.1	.02	N	N	.005
P50980	37 40 22	89 33 2	.1	.2	.03	N	N	.02
P51000	37 40 22	89 33 2	.07	.15	.05	N	N	.015
P51020	37 40 22	89 33 2	.05	.7	.15	N	N	.05
P51040	37 40 22	89 33 2	.1	.2	.02	N	N	.02
P51060	37 40 22	89 33 2	.07	.7	.07	N	N	.07
P51080	37 40 22	89 33 2	.15	.3	<.02	N	N	.01
P51100	37 40 22	89 33 2	<.05	1	.15	N	N	.15
P51120	37 40 22	89 33 2	.1	.5	.07	N	N	.03
P51140	37 40 22	89 33 2	.05	.5	.1	N	N	.05
P51160	37 40 22	89 33 2	.07	1	.3	<.2	N	.15
P51180	37 40 22	89 33 2	<.05	2	1	.5	N	.3
P51200	37 40 22	89 33 2	.07	1.5	.5	.2	N	.2
P51220	37 40 22	89 33 2	.05	2	.7	.5	N	.3
P51240	37 40 22	89 33 2	<.05	5	1	.3	N	.2
P51260	37 40 22	89 33 2	N	.7	.3	.2	N	.1
P51280	37 40 22	89 33 2	N	1	.5	.2	N	.15
P51300	37 40 22	89 33 2	.07	.7	.5	N	N	.05
P51320	37 40 22	89 33 2	.1	1	.5	N	N	.05
P51340	37 40 22	89 33 2	.2	3	.5	N	N	.07
P51360	37 40 22	89 33 2	.1	2	1	<.2	N	.2
P51380	37 40 22	89 33 2	.2	1.5	1	<.2	N	.2
P51400	37 40 22	89 33 2	.15	2	.7	N	N	.15
P51420	37 40 22	89 33 2	.2	2	1	<.2	N	.3
P51440	37 40 22	89 33 2	.15	1.5	1	<.2	N	.2
P51460	37 40 22	89 33 2	.2	1	.7	N	N	.15
P51480	37 40 22	89 33 2	.1	2	1	<.2	N	.2
P51500	37 40 22	89 33 2	.2	3	1	<.2	N	.2
P51520	37 40 22	89 33 2	.15	2	.2	N	N	.1
P51540	37 40 22	89 33 2	.2	5	.7	.2	N	.2
P51560	37 40 22	89 33 2	.07	3	.7	<.2	N	.15
P51580	37 40 22	89 33 2	.15	5	.5	.2	N	.2
P51600	37 40 22	89 33 2	.1	5	.2	N	N	.15
P51620	37 40 22	89 33 2	<.05	.15	.02	N	N	.007
P51640	37 40 22	89 33 2	.1	.5	.07	N	N	.03
P51660	37 40 22	89 33 2	.15	3	.5	N	N	.2
P51680	37 40 22	89 33 2	.2	5	1	N	N	.3
P51700	37 40 22	89 33 2	.2	.3	.1	N	N	.03
P51720	37 40 22	89 33 2	.07	10	.3	N	N	.05
P51740	37 40 22	89 33 2	.05	1	.05	N	N	.02
P51760	37 40 22	89 33 2	<.05	3	.03	N	N	.02
P51780	37 40 22	89 33 2	.05	.05	.05	N	N	.007
P51800	37 40 22	89 33 2	<.05	.07	.02	N	N	.003
P51820	37 40 22	89 33 2	.07	.1	<.02	N	N	.005
P51840	37 40 22	89 33 2	.1	.1	.02	N	N	.003
P51860	37 40 22	89 33 2	.15	.1	.03	N	N	.003
P51880	37 40 22	89 33 2	.05	.05	.02	N	N	.003
P51900	37 40 22	89 33 2	<.05	.05	<.02	N	N	.002
P51920	37 40 22	89 33 2	.05	2	.02	N	N	.015
P51940	37 40 22	89 33 2	.05	1.5	.7	N	N	.15
P51960	37 40 22	89 33 2	.1	.15	.05	N	N	.007
P51980	37 40 22	89 33 2	.15	1	.03	N	N	.01
P52000	37 40 22	89 33 2	<.05	.2	.03	N	N	.005
P52020	37 40 22	89 33 2	<.05	.1	.03	N	N	.007

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P50840	<.5	N	N	20	2,000	N	N	200	20	10	50
P50860	N	N	N	100	300	<1	N	<20	15	30	30
P50880	N	N	N	20	1,000	N	N	N	N	N	<5
P50900	N	N	N	20	30	N	N	N	N	N	<5
P50920	N	N	N	30	70	N	N	N	N	N	N
P50940	N	N	N	20	50	N	N	N	N	N	N
P50960	N	N	N	20	100	N	N	N	N	N	N
P50980	N	N	N	20	30	N	N	N	N	N	<5
P51000	N	N	N	20	30	N	N	N	N	N	<5
P51020	N	N	N	20	200	N	N	N	N	<10	10
P51040	N	N	N	30	50	N	N	N	N	N	<5
P51060	N	N	N	50	70	N	N	N	N	<10	7
P51080	N	N	N	30	<20	N	N	N	N	N	N
P51100	N	N	N	50	150	N	N	N	N	10	20
P51120	N	N	N	50	50	N	N	N	N	N	<5
P51140	N	N	N	50	500	N	N	N	N	<10	5
P51160	N	N	N	50	150	N	N	N	N	10	7
P51180	N	N	N	70	200	N	N	N	N	30	15
P51200	N	N	N	70	150	<1	N	N	N	15	10
P51220	N	N	N	70	200	<1	N	N	N	30	15
P51240	N	N	N	100	100	<1	N	N	N	50	10
P51260	N	N	N	20	50	N	N	N	N	<10	5
P51280	N	N	N	30	70	N	N	N	<10	10	10
P51300	N	N	N	20	50	N	N	N	N	<10	<5
P51320	N	N	N	30	30	N	N	N	N	<10	5
P51340	N	N	N	50	70	N	N	N	10	10	15
P51360	N	N	N	50	100	<1	N	N	15	20	15
P51380	N	N	N	70	150	<1	N	N	10	15	20
P51400	N	N	N	50	70	N	N	N	<10	10	10
P51420	N	N	N	100	200	1	N	N	15	20	15
P51440	N	N	N	100	150	<1	N	N	10	15	10
P51460	N	N	N	70	100	<1	N	N	<10	10	10
P51480	N	N	N	70	100	1	N	N	15	20	15
P51500	N	N	N	70	150	1	N	N	15	20	20
P51520	N	N	N	30	70	N	N	N	N	<10	15
P51540	N	N	N	70	1,000	<1	N	N	20	30	30
P51560	N	N	N	70	3,000	<1	N	N	10	20	30
P51580	N	N	N	100	700	1.5	N	N	20	15	30
P51600	N	N	N	70	1,500	N	N	N	15	<10	50
P51620	N	N	N	10	<20	N	N	N	N	N	<5
P51640	N	N	N	30	70	N	N	N	N	N	20
P51660	<.5	N	N	70	2,000	<1	N	N	<10	10	30
P51680	<.5	N	N	100	150	<1	N	N	10	15	50
P51700	N	N	N	20	20	N	N	N	N	N	7
P51720	N	N	N	30	1,500	N	N	N	50	10	20
P51740	N	N	N	20	30	N	N	N	<10	<10	20
P51760	N	N	N	10	30	N	N	N	10	N	20
P51780	N	N	N	20	<20	N	N	N	N	N	N
P51800	N	N	N	15	N	N	N	N	N	N	20
P51820	N	N	N	15	<20	N	N	N	N	N	N
P51840	N	N	N	30	N	N	N	N	N	N	N
P51860	N	N	N	50	<20	N	N	N	N	N	<5
P51880	N	N	N	50	N	N	N	N	N	N	N
P51900	N	N	N	70	<20	N	N	N	N	N	N
P51920	N	N	N	50	700	N	N	N	<10	N	10
P51940	N	N	N	70	150	N	N	N	20	<10	15
P51960	N	N	N	30	20	N	N	N	N	N	N
P51980	N	N	N	30	<20	N	N	N	N	N	5
P52000	N	N	N	50	N	N	N	N	N	N	N
P52020	N	N	N	70	<20	N	N	N	N	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P50840	<5	N	N	10	20	N	70	1,500	N	N
P50860	50	N	N	<10	<5	N	50	500	N	N
P50880	N	N	N	N	N	N	10	30	N	N
P50900	N	N	N	N	N	N	15	<10	N	N
P50920	N	N	N	N	N	N	15	N	N	N
P50940	N	N	N	N	N	N	20	N	N	N
P50960	N	N	N	N	N	N	10	<10	N	N
P50980	N	N	N	N	N	N	15	<10	N	N
P51000	N	N	N	N	N	N	10	N	N	N
P51020	N	N	N	N	N	N	10	N	N	N
P51040	N	N	N	N	N	N	5	N	N	N
P51060	N	N	N	<10	N	N	20	N	N	N
P51080	N	N	N	N	N	N	5	N	N	N
P51100	N	N	N	<10	N	N	15	20	N	N
P51120	N	N	N	N	N	N	10	N	N	N
P51140	N	N	N	N	N	N	15	N	N	N
P51160	N	N	N	10	N	N	15	N	N	N
P51180	10	N	N	20	N	N	20	N	N	<5
P51200	5	N	N	10	N	N	15	N	N	N
P51220	7	N	N	20	N	N	20	<10	N	<5
P51240	5	N	N	15	<5	N	20	N	N	<5
P51260	N	N	N	10	N	N	20	N	N	N
P51280	<5	N	N	15	N	N	20	N	N	N
P51300	N	N	N	10	N	N	7	N	N	N
P51320	N	N	N	30	N	N	10	N	N	N
P51340	<5	N	N	100	<5	N	15	100	N	N
P51360	10	N	N	100	<5	N	20	100	N	<5
P51380	20	N	N	150	N	N	20	300	N	<5
P51400	5	N	N	70	N	N	15	15	N	N
P51420	15	N	N	200	N	N	15	10	N	<5
P51440	15	N	N	200	N	N	15	<10	N	<5
P51460	<5	N	N	100	N	N	15	N	N	N
P51480	5	N	N	200	N	N	15	<10	N	<5
P51500	15	N	N	200	<5	N	20	10	N	<5
P51520	N	N	N	15	5	N	20	15	N	N
P51540	10	N	N	50	15	<20	70	1,500	N	N
P51560	10	N	N	70	10	N	50	500	N	N
P51580	5	N	N	100	10	N	70	150	N	N
P51600	7	N	N	50	15	N	70	700	N	N
P51620	N	N	N	N	N	N	5	N	N	N
P51640	N	N	N	N	N	N	20	N	N	N
P51660	5	N	N	<10	7	N	50	200	N	N
P51680	<5	N	N	20	20	N	100	20	N	N
P51700	N	N	N	N	N	N	20	<10	N	N
P51720	7	N	N	70	N	N	50	700	N	N
P51740	N	N	N	<10	N	N	15	N	N	N
P51760	N	N	N	<10	N	N	30	<10	N	N
P51780	N	N	N	N	N	N	<5	N	N	N
P51800	N	N	N	N	N	N	<5	N	N	N
P51820	N	N	N	N	N	N	N	N	N	N
P51840	N	N	N	N	N	N	N	N	N	N
P51860	N	N	N	N	N	N	N	N	N	N
P51880	N	N	N	N	N	N	<5	N	N	N
P51900	N	N	N	N	N	N	N	N	N	N
P51920	N	N	N	<10	5	N	50	200	N	N
P51940	<5	N	N	10	N	N	70	15	N	N
P51960	N	N	N	N	N	N	7	N	N	N
P51980	N	N	N	N	N	N	15	N	N	N
P52000	N	N	N	N	N	N	<5	N	N	N
P52020	N	N	N	N	N	N	5	N	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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 #
P50840	N	N	N	20	20	N	10,000	30	.06	7
P50860	N	N	N	70	N	N	1,000	50	.1	7
P50880	N	N	N	N	70	N	500	N	.08	7
P50900	N	N	N	N	N	N	<200	N	.02	7
P50920	N	N	N	N	N	N	N	N	.02	7
P50940	N	N	N	N	N	N	N	N	<.01	7
P50960	N	N	N	N	N	N	N	N	.01	7
P50980	N	N	N	N	N	N	N	N	.03	7
P51000	N	N	N	N	N	N	N	N	.03	7
P51020	N	N	N	20	N	N	N	15	.06	7
P51040	N	N	N	N	N	N	500	10	.05	7
P51060	N	N	N	30	N	N	N	20	.08	7
P51080	N	N	N	N	N	N	N	N	.07	7
P51100	N	N	N	50	N	N	N	50	.05	7
P51120	N	N	N	15	N	N	N	<10	.21	7
P51140	N	N	N	20	N	N	N	15	.03	7
P51160	N	N	N	50	N	N	N	50	.05	7
P51180	N	N	N	100	N	N	N	70	.15	7
P51200	N	N	N	70	N	N	N	70	.09	7
P51220	N	N	N	100	N	<10	N	70	.12	7
P51240	N	N	N	100	N	N	N	70	.13	7
P51260	N	N	N	30	N	N	N	50	.06	7
P51280	N	N	N	50	N	N	N	150	.07	7
P51300	N	N	N	20	N	N	N	70	.06	7
P51320	N	N	N	50	N	N	N	30	.06	7
P51340	N	N	N	70	N	N	N	30	.09	7
P51360	N	N	N	100	N	N	N	30	.16	7
P51380	N	N	N	100	N	N	N	50	.11	7
P51400	N	N	N	70	N	N	N	30	.12	7
P51420	N	N	N	100	N	N	N	70	.14	7
P51440	N	N	N	100	N	N	N	70	.1	7
P51460	N	N	N	70	N	N	N	70	.09	7
P51480	N	N	N	100	N	N	N	70	.11	7
P51500	N	N	N	100	N	N	N	70	.15	7
P51520	N	N	N	30	N	N	N	50	.09	10
P51540	N	N	N	70	500	N	700	100	.1	10
P51560	<10	N	N	100	150	N	300	100	.1	10
P51580	N	<100	N	100	N	N	N	70	.15	10
P51600	N	N	N	100	N	N	<200	50	.08	10
P51620	N	N	N	10	N	N	N	<10	.03	10
P51640	N	N	N	20	N	N	N	10	.03	10
P51660	N	N	N	100	30	N	N	70	.12	10
P51680	N	N	N	100	N	N	500	70	.12	10
P51700	N	N	N	30	N	N	N	50	.04	10
P51720	N	N	N	50	N	N	N	100	.15	10
P51740	N	N	N	20	N	N	N	10	.03	10
P51760	N	N	N	15	70	N	N	150	.02	10
P51780	N	N	N	N	N	N	N	N	.01	10
P51800	N	N	N	N	N	N	N	N	.03	10
P51820	N	N	N	N	N	N	N	N	.02	10
P51840	N	N	N	N	N	N	N	N	.01	10
P51860	N	N	N	N	N	N	N	N	<.01	10
P51880	N	N	N	N	N	N	N	N	<.01	10
P51900	N	N	N	N	N	N	N	N	<.01	10
P51920	N	N	N	N	<20	N	N	<10	.02	10
P51940	N	N	N	20	200	N	500	50	.12	10
P51960	N	N	N	N	N	N	N	<10	<.01	10
P51980	N	N	N	N	N	N	300	<10	.01	10
P52000	N	N	N	N	N	N	N	N	<.01	10
P52020	N	N	N	N	N	N	N	N	<.01	10

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P52040	37 40 22	89 38 2	N	.05	<.02	N	N	<.002
P52060	37 40 22	89 38 2	<.05	.1	.05	N	N	.01
P52080	37 40 22	89 38 2	<.05	.1	.05	N	N	.01
P52100	37 40 22	89 38 2	.1	.15	.3	N	N	.02
P52120	37 40 22	89 38 2	.1	.3	.3	N	N	.05
P52140	37 40 22	89 38 2	.07	.5	.3	N	N	.05
P52160	37 40 22	89 38 2	.05	.3	.2	N	N	.05
P52180	37 40 22	89 38 2	.05	.5	.5	N	N	.07
P52200	37 40 22	89 38 2	.07	.7	.5	N	N	.1
P52220	37 40 22	89 38 2	.2	.7	.7	<.2	N	.1
P52240	37 40 22	89 38 2	.1	1	.7	<.2	N	.15
P52250	37 40 22	89 38 2	.15	1	1	.2	N	.15
P52280	37 40 22	89 38 2	.15	.7	.5	<.2	N	.1
P52300	37 40 22	89 38 2	.2	.5	.5	N	N	.05
P52320	37 40 22	89 38 2	.15	.7	.5	N	N	.07
P52340	37 40 22	89 38 2	.1	1.5	2	.3	N	.15
P52360	37 40 22	89 38 2	.5	1	2	<.2	N	.1
P52380	37 40 22	89 38 2	.2	2	3	.3	N	.2
P52400	37 40 22	89 38 2	.7	1.5	2	.3	N	.15
P52420	37 40 22	89 38 2	.5	1	1.5	.3	N	.1
P52440	37 40 22	89 38 2	.5	.7	1.5	<.2	N	.07
P52460	37 40 22	89 38 2	.3	1	1.5	.2	N	.1
P52480	37 40 22	89 38 2	.15	1	2	.3	N	.1
P52500	37 40 22	89 38 2	.2	1.5	3	.5	N	.3
P52520	37 40 22	89 38 2	.15	7	3	.5	N	.5
P52540	37 40 22	89 38 2	<.05	5	5	1.5	N	.5
P52560	37 40 22	89 38 2	.15	5	3	1	N	.3
P52580	37 40 22	89 38 2	.15	5	5	1	N	.5
P52600	37 40 22	89 38 2	.05	5	3	1	N	.3
P52620	37 40 22	89 38 2	1	5	5	1	N	.5
P52640	37 40 22	89 38 2	.1	5	3	.7	N	.5
P52660	37 40 22	89 38 2	.15	7	3	1	N	.5
P52680	37 40 22	89 38 2	.1	7	3	1.5	N	.5
P52700	37 40 22	89 38 2	.1	7	3	1.5	N	.7
P52720	37 40 22	89 38 2	.1	7	3	1	N	.7
P52740	37 40 22	89 38 2	.07	2	1	.2	N	.1
P52760	37 40 22	89 38 2	.05	.3	.1	N	N	.02
P52780	37 40 22	89 38 2	.2	1	.3	N	N	.05
P52800	37 40 22	89 38 2	<.05	7	2	1.5	N	.7
P52820	37 40 22	89 38 2	N	7	2	1	N	.5
P52840	37 40 22	89 33 2	N	20	3	1	N	.7
P52860	37 40 22	89 33 2	N	5	1.5	2	N	1
P52880	37 40 22	89 33 2	<.05	3	1	1	N	.5
P52900	37 40 22	89 33 2	<.05	7	3	.7	N	.7
P52920	37 40 22	89 33 2	<.05	5	2	.5	N	.5
P52940	37 40 22	89 33 2	.05	20	2	.5	N	.5
P52960	37 40 22	89 33 2	<.05	15	3	.7	N	.5
P52980	37 40 22	89 33 2	.07	20	2	.5	N	.3
P53000	37 40 22	89 33 2	.05	20	3	.7	N	.7
P53020	37 40 22	89 33 2	<.05	20	3	.7	N	.7
P53040	37 40 22	89 33 2	<.05	20	3	1	N	.7
P53060	37 40 22	89 33 2	.15	15	3	.3	N	.5
P53080	37 40 22	89 33 2	.2	15	3	.2	N	.7
P53100	37 40 22	89 33 2	.07	5	1.5	.2	N	.2
P53120	37 40 22	89 33 2	.05	2	1.5	.3	N	.3
P53140	37 40 22	89 33 2	.07	2	1.5	.2	N	.5
P53160	37 40 22	89 33 2	.05	2	1.5	.2	N	.3
P53180	37 40 22	89 33 2	.1	1	.7	<.2	N	.1
P53200	37 40 22	89 33 2	.07	15	3	.3	N	.7
P53220	37 40 22	89 33 2	.2	15	2	.3	N	.5

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P52040	N	N	N	50	N	N	N	N	N	N	N
P52060	N	N	N	30	20	N	N	N	N	N	<5
P52080	N	N	N	15	<20	N	N	N	N	N	N
P52100	N	N	N	50	30	N	N	N	N	N	<5
P52120	N	N	N	30	30	N	N	N	N	N	<5
P52140	N	N	N	30	30	N	N	N	N	N	5
P52160	N	N	N	30	30	N	N	N	N	N	<5
P52180	N	N	N	30	150	N	N	N	N	<10	5
P52200	N	N	N	50	100	N	N	N	N	<10	7
P52220	N	N	N	50	150	N	N	N	N	10	5
P52240	N	N	N	50	100	N	N	N	N	10	20
P52250	N	N	N	50	150	N	N	N	N	15	10
P52280	N	N	N	50	100	N	N	N	N	<10	7
P52300	N	N	N	30	50	N	N	N	N	N	<5
P52320	N	N	N	50	150	N	N	N	N	<10	5
P52340	N	N	N	50	200	N	N	N	<10	20	15
P52360	N	N	N	50	70	N	N	N	N	15	7
P52380	N	N	N	30	100	N	N	N	N	20	10
P52400	N	N	N	50	150	N	N	N	N	15	15
P52420	N	N	N	30	150	N	N	N	N	10	10
P52440	N	N	N	20	70	N	N	N	N	10	15
P52460	N	N	N	30	100	N	N	N	N	10	7
P52480	N	N	N	20	70	N	N	N	N	15	5
P52500	N	N	N	50	200	<1	N	N	<10	20	10
P52520	N	N	N	70	500	1.5	N	N	15	50	70
P52540	N	N	N	50	300	<1	N	N	<10	30	<5
P52560	N	N	N	50	500	1	N	N	10	50	10
P52580	N	N	N	50	500	1	N	N	15	70	15
P52600	N	N	N	30	700	<1	N	N	<10	50	10
P52620	N	N	N	30	500	<1	N	N	15	70	15
P52640	N	N	N	50	500	<1	N	N	10	30	7
P52660	N	N	N	70	500	<1	N	N	10	30	7
P52680	N	N	N	50	700	<1	N	N	10	50	<5
P52700	N	N	N	70	700	1	N	N	15	50	20
P52720	N	N	N	150	700	1.5	N	N	10	30	20
P52740	N	N	N	20	50	N	N	N	N	10	<5
P52760	N	N	N	15	<20	N	N	N	N	N	N
P52780	N	N	N	20	50	N	N	N	N	N	10
P52800	N	N	N	50	300	<1	N	N	<10	20	10
P52820	N	N	N	30	150	<1	N	N	<10	30	10
P52840	N	N	N	100	500	1.5	N	N	15	50	20
P52860	N	N	N	50	300	<1	N	N	N	20	70
P52880	N	N	N	70	200	1.5	N	N	N	10	10
P52900	N	N	N	150	500	1.5	N	N	15	50	15
P52920	N	N	N	100	300	2	N	N	<10	20	15
P52940	N	N	N	70	500	1	N	N	15	30	15
P52960	N	N	N	150	500	2	N	N	15	70	20
P52980	N	N	N	100	300	1.5	N	N	15	30	30
P53000	N	N	N	100	500	1.5	N	N	15	50	50
P53020	N	N	N	100	300	2	N	N	10	30	15
P53040	N	N	N	70	500	1.5	N	N	15	70	20
P53060	N	N	N	200	200	1.5	N	N	N	15	15
P53080	N	N	N	150	300	1.5	N	N	10	70	15
P53100	N	N	N	70	700	1	N	N	N	15	10
P53120	N	N	N	70	150	<1	N	N	<10	20	15
P53140	N	N	N	70	100	<1	N	N	<10	20	15
P53160	N	N	N	70	200	N	N	N	N	15	10
P53180	N	N	N	30	100	N	N	N	N	<10	5
P53200	N	N	N	100	300	1.5	N	N	15	30	20
P53220	N	N	N	150	300	1	N	N	10	30	20

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P52040	N	N	N	N	N	N	<5	N	N	N
P52060	N	N	N	N	N	N	5	N	N	N
P52080	N	N	N	N	N	N	5	N	N	N
P52100	N	N	N	N	N	N	7	N	N	N
P52120	N	N	N	N	N	N	7	N	N	N
P52140	N	N	N	N	N	N	7	N	N	N
P52160	N	N	N	N	N	N	10	N	N	N
P52180	N	N	N	<10	N	N	15	150	N	N
P52200	<5	N	N	<10	N	N	10	300-	N	N
P52220	<5	N	N	10	N	N	7	70	N	N
P52240	5	N	N	<10	N	N	10	100	N	N
P52250	10	N	N	10	N	N	15	<10	N	N
P52280	N	N	N	<10	N	N	10	<10	N	N
P52300	N	N	N	<10	N	N	7	N	N	N
P52320	N	N	N	<10	N	N	7	N	N	N
P52340	15	N	N	20	N	N	20	500	N	N
P52360	5	N	N	15	N	N	15	70	N	N
P52380	20	N	N	15	N	N	20	100	N	<5
P52400	7	N	N	15	N	N	15	20	N	N
P52420	7	N	N	10	N	N	15	<10	N	N
P52440	N	N	N	<10	N	N	15	<10	N	N
P52460	70	N	N	<10	N	N	10	10	N	N
P52480	10	N	N	10	N	N	15	N	N	N
P52500	15	N	N	20	N	N	15	<10	N	<5
P52520	30	N	N	150	N	<20	30	10	N	5
P52540	30	N	N	200	N	N	20	10	N	<5
P52560	50	N	N	100	N	N	20	20	N	<5
P52580	50	N	N	100	N	<20	30	<10	N	5
P52600	50	N	N	100	N	N	20	100	N	<5
P52620	70	N	N	70	N	N	20	<10	N	5
P52640	50	N	N	70	N	<20	20	<10	N	5
P52660	50	N	N	200	N	<20	20	<10	N	7
P52680	50	N	N	300	N	N	20	10	N	7
P52700	30	N	N	200	N	<20	30	500	N	7
P52720	50	N	N	200	N	<20	30	300	N	5
P52740	<5	N	N	<10	N	N	10	100	N	N
P52760	N	N	N	N	N	N	7	N	N	N
P52780	N	N	N	<10	N	N	5	N	N	N
P52800	30	N	<50	200	N	<20	10	<10	N	<5
P52820	30	N	N	50	N	N	15	10,000	N	<5
P52840	30	N	<50	300	N	<20	20	2,000	N	7
P52860	50	N	N	50	<5	<20	20	70	N	<5
P52880	15	N	N	200	N	<20	15	200	N	<5
P52900	30	N	<50	700	N	<20	20	15	N	10
P52920	30	N	N	500	N	N	20	50	N	5
P52940	50	N	<50	200	10	<20	30	1,500	N	7
P52960	50	N	N	300	10	<20	50	700	N	7
P52980	50	N	N	500	5	<20	30	20,000	N	5
P53000	30	N	<50	700	N	N	20	5,000	N	7
P53020	50	N	<50	700	7	N	70	500	N	7
P53040	70	N	N	300	<5	N	20	15	N	7
P53060	70	N	N	500	7	<20	10	150	N	5
P53080	50	N	N	300	N	<20	20	100	N	<5
P53100	20	N	N	150	N	N	15	150	N	<5
P53120	15	N	N	150	N	N	20	15	N	<5
P53140	10	N	N	100	N	N	20	<10	N	<5
P53160	10	N	N	70	N	N	20	100	N	<5
P53180	N	N	N	20	N	N	10	N	N	N
P53200	15	N	N	300	N	<20	20	100	N	5
P53220	20	N	N	300	<5	<20	20	70	N	5

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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 #
P52040	N	N	N	N	N	N	N	<10	<.01	10
P52060	N	N	N	N	N	N	N	<10	.01	10
P52080	N	N	N	N	N	N	N	<10	.01	10
P52100	N	N	N	15	N	N	N	70	.01	10
P52120	N	N	N	20	N	N	N	50	.02	10
P52140	N	N	N	20	N	N	N	50	.02	10
P52160	N	N	N	30	N	N	N	50	.05	10
P52180	N	N	N	30	N	N	N	70	.05	10
P52200	N	N	N	50	N	N	N	70	.05	10
P52220	N	N	N	50	N	N	N	100	.04	10
P52240	N	N	N	50	N	N	N	100	.06	10
P52250	N	N	N	70	N	N	N	70	.07	10
P52280	N	N	N	50	N	N	N	70	.05	10
P52300	N	N	N	20	N	N	N	20	.03	10
P52320	N	N	N	30	N	N	N	50	.05	10
P52340	N	N	N	100	N	N	N	100	.1	10
P52360	N	N	N	70	N	N	N	70	.07	10
P52380	N	N	N	70	N	N	N	100	.1	10
P52400	N	N	N	70	N	N	N	100	.07	10
P52420	N	N	N	70	N	N	N	100	.05	10
P52440	N	N	N	70	N	N	N	70	.05	10
P52460	N	N	N	70	N	N	N	100	.05	10
P52480	N	N	N	70	N	N	N	50	.05	10
P52500	N	N	N	100	N	N	N	70	.06	15
P52520	N	N	N	150	N	<10	N	100	.16	15
P52540	N	N	N	70	N	N	N	70	.1	15
P52560	N	N	N	70	N	N	N	70	.09	15
P52580	N	N	N	100	N	<10	N	100	.11	15
P52600	N	N	N	70	N	N	N	100	.09	15
P52620	N	N	N	100	N	N	N	100	.11	15
P52640	N	N	N	100	N	N	N	100	.1	15
P52660	N	N	N	100	N	<10	N	100	.09	15
P52680	N	N	N	100	N	<10	N	100	.08	15
P52700	N	N	N	100	N	<10	N	150	.06	15
P52720	N	N	N	100	N	<10	N	150	.08	15
P52740	N	N	N	30	<20	N	N	30	.03	15
P52760	N	N	N	15	N	N	N	<10	<.01	15
P52780	N	N	N	20	N	N	700	50	<.01	15
P52800	N	N	N	150	N	<10	N	200	.05	15
P52820	N	N	N	100	N	N	<200	70	.07	22
P52840	N	N	N	150	N	10	N	150	.06	22
P52860	N	N	N	100	100	10	N	500	.04	22
P52880	N	N	N	70	150	<10	N	200	.07	22
P52900	N	N	N	150	N	<10	<200	100	.08	22
P52920	N	N	N	100	20	N	N	70	.09	22
P52940	N	N	N	150	1,500	<10	<200	70	.07	25
P52960	N	N	N	150	30	<10	N	100	.05	25
P52980	N	N	N	100	30	<10	<200	100	.08	25
P53000	N	N	N	150	N	10	N	100	.06	25
P53020	N	N	N	150	N	10	N	100	.07	25
P53040	N	N	N	150	N	10	<200	100	.07	25
P53060	N	N	N	100	N	<10	<200	100	.13	25
P53080	N	N	N	100	N	N	N	150	.14	25
P53100	N	N	N	70	N	N	N	70	.07	26
P53120	N	N	N	100	N	N	N	70	.08	26
P53140	N	N	N	100	N	N	N	70	.09	26
P53160	N	200	N	70	<20	N	N	70	.1	26
P53180	N	N	N	30	N	N	N	30	.03	26
P53200	N	N	N	150	<20	<10	N	70	.28	26
P53220	N	N	N	100	100	<10	N	100	.46	26

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P53240	37 40 22	89 33 2	.07	10	3	.5	N	.5
P53260	37 40 22	89 33 2	.07	7	2	.7	N	.5
P53280	37 40 22	89 33 2	.2	7	3	.3	N	.5
P53300	37 40 22	89 33 2	.15	5	1.5	.3	N	.3
P53320	37 40 22	89 33 2	.1	.7	.3	N	N	.05
P53340	37 40 22	89 33 2	.2	1.5	1	<.2	N	.1
P53360	37 40 22	89 33 2	.1	3	1.5	.3	N	.5
P53380	37 40 22	89 33 2	.15	2	1.5	.2	N	.3
P53400	37 40 22	89 33 2	.3	2	1.5	.2	N	.3
P53420	37 40 22	89 33 2	.07	5	3	1	N	.5
P53440	37 40 22	89 33 2	.15	3	2	<.2	N	.2
P53460	37 40 22	89 33 2	.05	2	3	.2	N	.3
P53480	37 40 22	89 33 2	.07	5	3	.3	N	.5
P53500	37 40 22	89 33 2	.15	2	1	.2	N	.2
P53520	37 40 22	89 33 2	.05	5	3	.7	N	.3
P53540	37 40 22	89 33 2	<.05	3	2	.3	N	.2
P53560	37 40 22	89 33 2	.3	2	2	<.2	N	.3
P53580	37 40 22	89 33 2	.1	2	2	.3	N	.3
P53600	37 40 22	89 33 2	1.5	2	2	.3	N	.3
P53620	37 40 22	89 33 2	.3	3	2	.3	N	.5
P53640	37 40 22	89 33 2	2	10	3	.5	N	1
P53650	37 40 22	89 33 2	2	5	5	.2	N	1
P53660	37 40 22	89 33 2	5	3	7	.3	N	.5
P53670	37 40 22	89 33 2	5	5	5	.2	N	.7
P53680	37 40 22	89 33 2	.2	5	2	.2	N	.5
P53690	37 40 22	89 33 2	2	3	2	<.2	N	.5
P53700	37 40 22	89 33 2	.05	3	2	.2	N	.5
P53710	37 40 22	89 33 2	<.05	5	3	.2	N	.7
P53720	37 40 22	89 33 2	<.05	2	1.5	<.2	N	.3
P53730	37 40 22	89 33 2	.1	3	2	.7	N	.5
P53740	37 40 22	89 33 2	.2	2	3	.2	N	.3
P53750	37 40 22	89 33 2	<.05	.2	.2	N	N	.03
P53760	37 40 22	89 33 2	.05	.7	.5	N	N	.07
P53770	37 40 22	89 33 2	.15	1.5	1	N	N	.1
P53780	37 40 22	89 33 2	.1	2	2	.2	N	.5
P53790	37 40 22	89 33 2	.07	1.5	1.5	<.2	N	.2
P53800	37 40 22	89 33 2	.15	2	2	<.2	N	.3
P53810	37 40 22	89 33 2	.07	.5	.5	N	N	.05
P53820	37 40 22	89 33 2	3	1.5	5	<.2	N	.2
P53830	37 40 22	89 33 2	N	.05	.03	N	N	.007
P53840	37 40 22	89 33 2	.07	.2	.2	N	N	.03
P53850	37 40 22	89 33 2	.1	.05	.05	N	N	.005
P53860	37 40 22	89 33 2	.07	.5	.3	N	N	.05
P53870	37 40 22	89 33 2	.05	.7	.15	N	N	.05
P53880	37 40 22	89 33 2	<.05	.07	.05	N	N	.01
P53890	37 40 22	89 33 2	N	.05	<.02	N	N	.005
P53900	37 40 22	89 33 2	N	.07	.02	N	N	.01
P53910	37 40 22	89 33 2	N	.15	.07	N	N	.02
P53920	37 40 22	89 33 2	<.05	.15	.07	N	N	.015
P53930	37 40 22	89 33 2	N	.07	<.02	N	N	.003
P53940	37 40 22	89 33 2	N	.15	.03	N	N	.01
P53950	37 40 22	89 33 2	N	.1	<.02	N	N	.007
P53960	37 40 22	89 33 2	N	.1	.03	N	N	.02
P53970	37 40 22	89 33 2	N	.07	.03	N	N	.015
P53980	37 40 22	89 33 2	N	.05	.02	N	N	.015
P53990	37 40 22	89 33 2	N	.05	.02	N	N	.01
P54000	37 40 22	89 33 2	N	.05	<.02	N	N	.003
P54013	37 40 22	89 33 2	N	.05	.02	N	N	.007

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P53240	N	N	N	100	200	1	N	N	10	50	20
P53260	N	N	N	50	1,500	<1	N	N	<10	30	30
P53280	N	N	N	70	300	<1	N	N	<10	50	15
P53300	N	N	N	30	300	<1	N	N	N	20	10
P53320	N	N	N	20	70	N	N	N	N	<10	<5
P53340	N	N	N	70	500	N	N	N	N	10	20
P53360	N	N	N	70	300	1.5	N	N	10	20	15
P53380	N	N	N	100	150	1	N	N	<10	20	7
P53400	N	N	N	70	300	<1	N	N	10	20	10
P53420	N	N	N	100	500	2	N	N	10	50	15
P53440	N	N	N	100	500	<1	N	N	15	30	20
P53460	N	N	N	100	500	1	N	N	<10	70	30
P53480	N	N	N	150	1,500	1	N	N	10	50	20
P53500	N	N	N	50	150	<1	N	N	N	15	20
P53520	N	N	N	70	200	1.5	N	N	<10	20	15
P53540	N	N	N	100	300	1	N	N	10	50	50
P53560	N	N	N	100	5,000	1	N	N	10	30	15
P53580	N	N	N	30	3,000	<1	N	N	<10	20	10
P53600	N	N	N	70	3,000	2	N	N	<10	20	7
P53620	N	N	N	70	2,000	1	N	N	15	50	20
P53640	N	N	N	100	3,000	1.5	N	N	15	50	20
P53650	N	N	N	70	300	1	N	N	15	50	30
P53660	N	N	N	50	1,000	<1	N	N	15	30	20
P53670	N	N	N	70	5,000	<1	N	N	10	50	20
P53680	N	N	N	50	>5,000	N	N	N	10	30	50
P53690	N	N	N	50	5,000	N	N	N	15	20	50
P53700	N	N	N	70	2,000	N	N	N	<10	20	15
P53710	N	N	N	100	500	1	N	N	<10	50	20
P53720	N	N	N	70	700	<1	N	N	N	20	10
P53730	N	N	N	50	500	<1	N	N	<10	50	15
P53740	N	N	N	70	500	N	N	N	<10	30	10
P53750	N	N	N	15	70	N	N	N	N	N	N
P53760	N	N	N	20	70	N	N	N	N	<10	<5
P53770	N	N	N	30	100	N	N	N	N	10	5
P53780	N	N	N	70	1,000	N	N	N	10	30	20
P53790	N	N	N	50	300	N	N	N	N	20	10
P53800	N	N	N	70	200	N	N	N	<10	20	20
P53810	N	N	N	15	70	N	N	N	N	N	5
P53820	N	N	N	70	200	<1	N	N	<10	20	50
P53830	N	N	N	10	<20	N	N	N	N	N	N
P53840	N	N	N	15	20	N	N	N	N	N	<5
P53850	N	N	N	N	N	N	N	N	N	N	N
P53860	N	N	N	15	50	N	N	N	N	N	5
P53870	N	N	N	50	<20	N	N	N	N	N	10
P53880	N	N	N	N	N	N	N	N	N	N	N
P53890	N	N	N	N	N	N	N	N	N	N	N
P53900	N	N	N	N	<20	N	N	N	N	N	N
P53910	N	N	N	N	<20	N	N	N	N	N	N
P53920	N	N	N	N	20	N	N	N	N	N	N
P53930	N	N	N	N	N	N	N	N	N	N	N
P53940	N	N	N	N	N	N	N	N	N	N	N
P53950	N	N	N	N	N	N	N	N	N	N	N
P53960	N	N	N	N	<20	N	N	N	N	N	N
P53970	N	N	N	N	N	N	N	N	N	N	N
P53980	N	N	N	N	<20	N	N	N	N	N	N
P53990	N	N	N	N	N	N	N	N	N	N	N
P54000	N	N	N	N	N	N	N	N	N	N	N
P54013	N	N	N	N	N	N	N	N	N	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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
P53240	70	N	N	100	<5	<20	20	5,000	N	<5
P53260	50	N	N	100	<5	N	15	2,000	N	<5
P53280	70	N	N	100	N	N	15	1,500	N	<5
P53300	20	N	N	70	N	N	10	100	N	N
P53320	N	N	N	10	N	N	7	<10	N	N
P53340	<5	N	N	50	N	N	10	N	N	N
P53360	20	N	N	200	N	N	20	20	N	<5
P53380	15	N	N	100	N	N	20	30	N	<5
P53400	20	N	N	150	N	N	15	20	N	<5
P53420	50	N	N	700	<5	<20	20	10,000	N	5
P53440	30	N	N	100	5	N	30	1,500	N	<5
P53460	70	N	N	70	<5	N	20	500	N	<5
P53480	70	N	N	150	10	N	20	50	N	<5
P53500	10	N	N	100	10	N	20	70	N	<5
P53520	70	N	N	200	<5	N	15	500	N	5
P53540	30	N	N	150	15	N	20	150	N	<5
P53560	30	N	N	100	<5	N	20	1,000	N	<5
P53580	30	N	N	100	<5	N	15	200	N	<5
P53600	20	N	<50	150	N	N	15	20	N	5
P53620	50	N	N	100	20	N	30	200	N	<5
P53640	100	N	<50	150	5	N	30	700	N	<5
P53650	50	N	N	100	7	N	30	30	N	<5
P53660	50	N	N	20	30	N	20	15	N	<5
P53670	30	N	N	50	<5	N	20	20	N	<5
P53680	20	N	N	30	70	N	20	30	N	N
P53690	15	N	N	30	10	N	30	50	N	N
P53700	50	N	N	70	<5	N	15	10,000	N	<5
P53710	30	N	N	150	7	N	20	5,000	N	<5
P53720	10	N	N	100	5	N	20	3,000	N	N
P53730	50	N	N	15	5	N	20	500	N	<5
P53740	30	N	N	10	7	N	15	15	N	<5
P53750	N	N	N	N	N	N	5	N	N	N
P53760	N	N	N	<10	N	N	10	20	N	N
P53770	<5	N	N	10	N	N	10	300	N	N
P53780	30	N	N	10	<5	N	5	20	N	N
P53790	15	N	N	10	N	N	15	<10	N	N
P53800	10	N	N	15	N	N	15	10	N	N
P53810	N	N	N	N	N	N	7	N	N	N
P53820	30	N	N	30	20	N	20	100	N	N
P53830	N	N	N	N	10	N	N	N	N	N
P53840	N	N	N	N	5	N	<5	N	N	N
P53850	N	N	N	N	<5	N	N	N	N	N
P53860	N	N	N	N	15	N	5	N	N	N
P53870	N	N	N	N	20	N	7	N	N	N
P53880	N	N	N	N	5	N	<5	N	N	N
P53890	N	N	N	N	N	N	N	<10	N	N
P53900	N	N	N	N	N	N	N	<10	N	N
P53910	N	N	N	<10	N	N	<5	<10	N	N
P53920	N	N	N	<10	N	N	5	<10	N	N
P53930	N	N	N	<10	N	N	5	N	N	N
P53940	N	N	N	N	N	N	N	N	N	N
P53950	N	N	N	N	N	N	<5	N	N	N
P53960	N	N	N	N	N	N	N	N	N	N
P53970	N	N	N	N	N	N	N	N	N	N
P53980	N	N	N	N	N	N	N	N	N	N
P53990	N	N	N	N	N	N	N	N	N	N
P54000	N	N	N	N	N	N	N	N	N	N
P54013	N	N	N	N	N	N	N	N	N	N

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P5, 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 #
P53240	N	N	N	100	N	<10	N	100	.24	26
P53260	N	N	N	70	N	N	N	100	.17	26
P53280	N	N	N	100	N	N	300	70	.26	26
P53300	N	N	N	70	N	N	<200	50	.3	26
P53320	N	N	N	15	N	N	N	10	.1	26
P53340	N	N	N	50	N	N	N	50	.07	26
P53360	N	N	N	100	N	N	N	100	.24	26
P53380	N	N	N	70	N	N	N	70	.28	26
P53400	N	N	N	70	20	N	N	100	.16	26
P53420	N	N	N	100	N	<10	N	100	.13	26
P53440	N	<100	N	100	N	N	N	50	.16	26
P53460	N	N	N	100	50	N	<200	100	.28	29
P53480	N	N	N	100	N	N	N	100	.2	29
P53500	N	N	N	70	N	N	500	70	.22	29
P53520	N	N	N	100	N	<10	N	100	.13	29
P53540	N	N	N	100	N	N	700	70	.18	29
P53560	N	>5,000	N	100	N	N	N	50	.15	29
P53580	N	>5,000	N	70	<20	N	<200	50	.11	29
P53600	N	>5,000	N	70	N	<10	N	70	.66	29
P53620	N	>5,000	N	100	N	<10	<200	100	.62	29
P53640	N	500	N	100	50	<10	<200	100	3.94	29
P53650	N	<100	N	100	N	N	N	70	.27	29
P53660	N	<100	N	70	N	N	N	70	.18	29
P53670	N	150	N	100	N	N	N	100	.24	29
P53680	N	<100	N	70	N	N	N	100	.15	29
P53690	N	100	N	50	N	N	N	100	.1	29
P53700	N	N	N	100	N	N	N	100	.11	29
P53710	N	<100	N	100	N	N	N	100	.15	30
P53720	N	<100	N	50	20	N	N	70	.09	30
P53730	N	N	N	70	N	N	N	100	.1	30
P53740	N	150	N	70	N	N	N	200	.13	30
P53750	N	N	N	15	N	N	N	100	.02	30
P53760	N	N	N	20	N	N	N	70	.04	30
P53770	N	N	N	30	N	N	N	70	.06	30
P53780	N	N	N	100	<20	N	N	100	.16	30
P53790	N	N	N	50	N	N	N	100	.13	30
P53800	N	N	N	70	N	N	N	150	.11	30
P53810	N	N	N	20	N	N	N	70	.06	30
P53820	N	N	N	70	N	N	N	100	.11	30
P53830	N	N	N	N	N	N	N	100	<.01	30
P53840	N	N	N	20	N	N	N	70	<.01	30
P53850	N	N	N	N	N	N	N	<10	<.01	30
P53860	N	N	N	20	N	N	N	100	.02	30
P53870	N	N	N	20	N	N	N	30	.01	30
P53880	N	N	N	N	N	N	N	20	<.01	30
P53890	N	N	N	N	N	N	N	10	<.01	32
P53900	N	N	N	N	N	N	N	15	<.01	32
P53910	N	N	N	N	N	N	N	<10	<.01	32
P53920	N	N	N	N	N	N	N	10	<.01	32
P53930	N	N	N	N	N	N	N	<10	<.01	32
P53940	N	N	N	N	N	N	N	10	.01	32
P53950	N	N	N	N	N	N	N	10	.02	32
P53960	N	N	N	N	N	N	N	10	<.01	32
P53970	N	N	N	N	N	N	N	<10	<.01	32
P53980	N	N	N	N	N	N	N	20	<.01	32
P53990	N	N	N	N	N	N	N	10	<.01	32
P54000	N	N	N	N	N	N	N	100	<.01	32
P54013	N	N	N	N	N	N	N	15	<.01	32

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P6, 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
P60020	37 45 16	89 51 10	.5	.15	.2	N	N	N	N	N	N	<10
P60030	37 45 16	89 51 10	3	3	1	N	N	.1	N	N	N	15
P60040	37 45 16	89 51 10	1	3	2	N	N	.3	N	N	N	50
P60050	37 45 16	89 51 10	.2	10	3	<.2	N	.5	N	N	N	70
P60060	37 45 16	89 51 10	.3	5	2	N	N	.3	N	N	N	50
P60070	37 45 16	89 51 10	3	7	1.5	<.2	N	.07	N	N	N	10
P60080	37 45 16	89 51 10	5	5	2	N	N	.1	N	N	N	15
P60090	37 45 16	89 51 10	3	2	1.5	<.2	N	.15	N	N	N	70
P60100	37 45 16	89 51 10	2	1.5	1	N	N	.2	N	N	N	50
P60110	37 45 16	89 51 10	.5	2	1.5		N	.3	N	N	N	100
P60120	37 45 16	89 51 10	1	1.5	1.5	N	N	.2	N	N	N	100
P60130	37 45 16	89 51 10	3	1.5	1.5	<.2	N	.3	N	N	N	100
P60140	37 45 16	89 51 10	1	5	2	.2	N	.3	N	N	N	70
P60150	37 45 16	89 51 10	1	7	2	.2	N	.5	N	N	N	150
P60160	37 45 16	89 51 10	2	7	3	.2	N	.5	N	N	N	100
P60170	37 45 16	89 51 10	3	5	5	.3	N	.5	N	N	N	150
P60180	37 45 16	89 51 10	2	5	5	.3	N	.5	N	N	N	150
P60190	37 45 16	89 51 10	5	5	7	.5	N	.3	N	N	N	100
P60200	37 45 16	89 51 10	.7	2	1.5	<.2	N	.5	N	N	N	150
P60210	37 45 16	89 51 10	.5	3	2	<.2	N	.3	N	N	N	100
P60220	37 45 16	89 51 10	.3	2	3	.2	N	.5	N	N	N	100
P60230	37 45 16	89 51 10	.3	3	3	.2	N	.7	N	N	N	100
P60240	37 45 16	89 51 10	.5	3	3	<.2	N	.3	N	N	N	70
P60250	37 45 16	89 51 10	.5	2	2	.2	N	.5	N	N	N	70
P60260	37 45 16	89 51 10	1.5	1.5	3	<.2	N	.2	N	N	N	70
P60275	37 45 16	89 51 10	1	3	3	<.2	N	.3	N	N	N	100
P60280	37 45 16	89 51 10	N	<.05	<.02	N	N	.002	N	N	N	N
P60290	37 45 16	89 51 10	N	<.05	N	N	N	<.002	N	N	N	N
P60300	37 45 16	89 51 10	N	.1	N	N	N	.002	N	N	N	N
P60310	37 45 16	89 51 10	N	.1	<.02	N	N	.005	N	N	N	N
P60320	37 45 16	89 51 10	N	.05	.02	N	N	.005	N	N	N	N
P60330	37 45 16	89 51 10	N	<.05	<.02	N	N	.003	N	N	N	N
P60340	37 45 16	89 51 10	N	<.05	N	N	N	.002	N	N	N	N

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P6, 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
P60020	>5,000	N	N	N	N	N	<5	N	N	N	N	N	N
P60030	300	N	N	N	N	<10	15	50	N	N	70	20	N
P60040	5,000	<1	N	N	<10	50	15	20	N	N	20	<5	N
P60050	3,000	1	N	N	<10	100	30	50	N	N	50	5	N
P60060	>5,000	<1	N	N	N	70	20	15	N	N	30	7	N
P60070	>5,000	N	N	N	N	10	<5	<5	N	N	N	<5	N
P60080	>5,000	N	N	N	N	15	20	5	N	N	N	5	N
P60090	>5,000	N	N	N	N	15	15	10	N	N	20	15	N
P60100	>5,000	N	N	N	N	10	10	10	N	N	15	5	N
P60110	>5,000	<1	N	N	N	20	10	20	N	N	30	<5	N
P60120	>5,000	N	N	N	N	15	10	10	N	N	20	<5	N
P60130	>5,000	N	N	N	N	15	15	7	N	N	20	20	N
P60140	>5,000	N	N	N	N	30	20	50	N	N	50	7	N
P60150	>5,000	<1	N	N	<10	70	30	30	N	N	200	10	<20
P60160	5,000	<1	N	N	<10	50	30	50	N	N	300	20	N
P60170	5,000	1	N	N	10	100	30	70	N	<50	100	5	N
P60180	700	1.5	N	N	10	70	30	100	N	<50	70	<5	N
P60190	>5,000	<1	N	N	<10	100	20	100	N	N	20	<5	N
P60200	>5,000	N	N	N	N	20	20	20	N	N	50	N	<20
P60210	1,500	<1	N	N	N	30	20	30	N	N	70	N	<20
P60220	2,000	N	N	N	<10	30	20	50	N	N	50	<5	<20
P60230	1,000	<1	N	N	<10	70	20	70	N	N	30	<5	<20
P60240	1,000	N	N	N	<10	30	20	15	N	N	20	20	<20
P60250	>5,000	N	N	N	N	50	20	50	N	N	20	<5	N
P60260	>5,000	N	N	N	N	15	10	30	N	N	20	10	N
P60275	>5,000	N	N	N	<10	30	15	20	N	N	30	<5	N
P60280	N	N	N	N	N	N	N	N	N	N	N	N	N
P60290	N	N	N	N	N	N	N	N	N	N	N	N	N
P60300	70	N	N	N	N	N	N	N	N	N	N	N	N
P60310	70	N	N	N	N	N	N	N	N	N	N	N	N
P60320	N	N	N	N	N	N	N	N	N	N	N	N	N
P60330	70	N	N	N	N	N	N	N	N	N	N	N	N
P60340	N	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P6, 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 #
P60020	N	N	N	N	N	>5,000	N	N	N	N	N	N	--	26
P60030	15	20	N	N	N	2,000	N	20	N	N	10,000	70	1.69	26
P60040	15	500	N	<5	N	>5,000	N	70	N	N	2,000	50	.78	26
P60050	20	10	N	<5	N	>5,000	N	100	N	N	N	70	.38	26
P60060	20	100	N	<5	N	>5,000	N	70	N	N	N	50	.74	26
P60070	5	<10	N	N	N	>5,000	N	15	N	N	N	30	2.65	26
P60080	7	<10	N	<5	N	>5,000	N	20	N	N	N	50	3.95	26
P60090	15	<10	N	N	N	>5,000	N	70	N	N	N	30	2.87	26
P60100	15	<10	N	N	N	5,000	N	70	N	N	N	50	2.27	29,30
P60110	15	<10	N	<5	N	2,000	N	100	N	N	N	70	1.19	29,30
P60120	15	<10	N	<5	N	>5,000	N	100	N	N	N	70	1.51	29,30
P60130	20	10	N	N	N	>5,000	N	70	N	N	N	70	3.19	29,30
P60140	20	15	N	N	N	>5,000	N	70	N	N	N	70	2.36	29,30
P60150	30	100	N	<5	N	1,500	N	100	N	N	N	100	--	29,30
P60160	30	70	N	<5	N	1,500	N	100	N	N	N	70	1.88	29,30
P60170	30	100	N	5	N	1,000	N	150	N	N	N	70	.75	29,30
P60180	20	100	N	5	N	150	N	150	N	N	N	100	.75	29,30
P60190	20	30	N	<5	N	700	N	100	N	N	N	70	.47	29,30
P60200	10	15	N	N	N	1,500	N	70	N	N	500	300	.47	29,30
P60210	15	30	N	N	N	1,500	N	70	N	N	500	200	.71	29,30
P60220	15	30	N	N	N	200	N	70	N	N	N	200	.21	29,30
P60230	20	20	N	N	N	150	N	100	N	N	N	200	.21	29,30
P60240	20	10	N	N	N	100	N	70	N	N	N	150	.18	29,30
P60250	15	20	N	N	N	700	N	70	N	N	N	150	.75	29,30
P60260	20	15	N	N	N	1,500	N	50	N	N	N	100	.39	29,30
P60275	20	15	N	N	N	1,000	N	70	N	N	N	150	.67	29,30
P60280	N	N	N	N	N	N	N	N	N	N	N	30	.01	32
P60290	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	32
P60300	N	N	N	N	N	N	N	N	N	N	N	N	.01	32
P60310	N	N	N	N	N	N	N	N	N	N	N	15	.01	32
P60320	N	N	N	N	N	N	N	N	N	N	N	20	.01	32
P60330	N	N	N	N	N	N	N	N	N	N	N	<10	.01	32
P60340	N	N	N	N	N	N	N	N	N	N	N	15	<.01	32

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P7, 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
P70010	37 45 8	89 52 1	.05	2	1	1	N	.3
P70020	37 45 8	89 52 1	.07	5	1.5	.2	N	.3
P70030	37 45 8	89 52 1	3	3	1.5	.2	N	.3
P70040	37 45 8	89 52 1	.3	10	2	<.2	N	.5
P70050	37 45 8	89 52 1	.3	1	.7	N	N	.05
P70060	37 45 8	89 52 1	5	2	1	N	N	.3
P70070	37 45 8	89 52 1	10	.1	.1	N	N	.007
P70080	37 45 8	89 52 1	3	1.5	2	<.2	N	.2
P70090	37 45 8	89 52 1	2	5	5	.3	N	.5
P70100	37 45 8	89 52 1	2	.7	1	N	N	.07
P70110	37 45 8	89 52 1	1	3	5	.2	N	.5
P70120	37 45 8	89 52 1	5	2	2	<.2	N	.3
P70130	37 45 8	89 52 1	5	3	5	.2	N	.5
P70140	37 45 8	89 52 1	1	2	3	N	N	.5
P70150	37 45 8	89 52 1	3	2	7	N	N	.5
P70160	37 45 8	89 52 1	3	1	.7	N	N	.2
P70170	37 45 8	89 52 1	1.5	5	3	<.2	N	.5
P70180	37 45 8	89 52 1	.3	3	3	.2	N	.5
P70190	37 45 8	89 52 1	.1	1.5	1.5	<.2	N	.3
P70200	37 45 8	89 52 1	.2	2	2	.3	N	.5
P70210	37 45 8	89 52 1	.2	.2	.7	N	N	.05
P70220	37 45 8	89 52 1	.05	.5	.3	N	N	.07
P70230	37 45 8	89 52 1	N	.3	.2	N	N	.05
P70240	37 45 8	89 52 1	.2	1	1	N	N	.07
P70250	37 45 8	89 52 1	N	.07	.02	N	N	.01
P70260	37 45 8	89 52 1	N	N	N	N	N	.002
P70270	37 45 8	89 52 1	N	.05	<.02	N	N	<.002
P70280	37 45 8	89 52 1	N	.07	N	N	N	N
P70290	37 45 8	89 52 1	N	.07	<.02	N	N	.002
P70300	37 45 8	89 52 1	N	<.05	N	N	N	<.002
P70310	37 45 8	89 52 1	N	.05	<.02	N	N	<.002
P70320	37 45 8	89 52 1	N	N	<.02	N	N	.002
P70330	37 45 8	89 52 1	N	N	N	N	N	<.002

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P7, 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
P70010	N	N	N	30	500	N	N	N	N	20	10
P70020	N	N	N	50	700	<1	N	N	N	30	20
P70030	N	N	N	70	5,000	<1	N	N	<10	50	50
P70040	N	N	N	100	2,000	<1	N	N	10	150	70
P70050	N	N	N	15	5,000	N	N	N	N	10	10
P70060	N	N	N	50	3,000	<1	N	N	N	30	15
P70070	N	N	N	N	5,000	N	N	N	N	N	N
P70080	N	N	N	70	5,000	<1	N	N	N	50	20
P70090	N	N	N	200	5,000	1.5	N	N	<10	100	20
P70100	N	N	N	100	2,000	N	N	N	N	10	7
P70110	N	N	N	150	2,000	1	N	N	10	50	30
P70120	N	N	N	100	>5,000	1	N	N	<10	50	50
P70130	N	N	N	150	2,000	1	N	N	15	70	30
P70140	N	N	N	100	700	<1	N	500	<10	50	30
P70150	N	N	N	150	500	1	N	20	<10	50	30
P70160	N	N	N	30	1,500	N	N	N	N	20	30
P70170	N	N	N	50	1,000	N	N	N	<10	30	30
P70180	N	N	N	100	700	N	N	N	<10	50	30
P70190	N	N	N	70	500	N	N	N	N	20	10
P70200	N	N	N	50	1,500	N	N	N	N	50	20
P70210	N	N	N	15	200	N	N	N	N	<10	<5
P70220	N	N	N	15	200	N	N	N	N	<10	5
P70230	N	N	N	15	150	N	N	N	N	<10	15
P70240	N	N	N	20	3,000	N	N	N	N	10	7
P70250	N	N	N	N	30	N	N	N	N	N	N
P70260	N	N	N	N	<20	N	N	N	N	N	N
P70270	N	N	N	N	50	N	N	N	N	N	N
P70280	N	N	N	N	N	N	N	N	N	N	<5
P70290	N	N	N	N	<20	N	N	N	N	N	N
P70300	N	N	N	N	N	N	N	N	N	N	N
P70310	N	N	N	N	N	N	N	N	N	N	N
P70320	N	N	N	N	<20	N	N	N	N	N	N
P70330	N	N	N	N	N	N	N	N	N	N	N

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P7, 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
P70010	20	N	N	150	N	N	15	N	N	N
P70020	50	N	N	500	<5	N	20	15	N	<5
P70030	20	N	N	100	10	N	20	10	N	<5
P70040	100	N	N	70	30	N	30	20	N	<5
P70050	N	N	N	N	<5	N	<5	<10	N	N
P70060	20	N	N	15	5	N	10	10	N	<5
P70070	N	N	N	N	N	N	N	<10	N	N
P70080	30	N	N	30	5	N	15	15	N	<5
P70090	70	N	<50	20	15	<20	20	10	N	5
P70100	<5	N	N	10	N	N	15	N	N	N
P70110	50	N	N	70	20	N	30	15	N	<5
P70120	15	N	N	100	<5	N	20	30	N	<5
P70130	50	N	<50	150	7	N	30	100	N	5
P70140	70	N	N	50	<5	<20	20	30	N	<5
P70150	50	N	N	70	15	N	20	100	N	<5
P70160	15	N	N	10	5	N	15	20	N	N
P70170	20	N	N	30	<5	<20	20	20	N	N
P70180	30	N	N	50	<5	N	30	20	N	<5
P70190	10	N	N	15	N	N	15	<10	N	N
P70200	50	N	N	20	N	N	20	20	N	<5
P70210	N	N	N	N	N	N	<5	N	N	N
P70220	N	N	N	N	N	N	5	N	N	N
P70230	N	N	N	N	N	N	7	N	N	N
P70240	<5	N	N	<10	N	N	10	N	N	N
P70250	N	N	N	N	N	N	<5	N	N	N
P70260	N	N	N	N	N	N	N	N	N	N
P70270	N	N	N	N	N	N	<5	N	N	N
P70280	N	N	N	N	N	N	N	N	N	N
P70290	N	N	N	N	N	N	N	N	N	N
P70300	N	N	N	N	N	N	N	N	N	N
P70310	N	N	N	N	N	N	N	N	N	N
P70320	N	N	N	N	N	N	N	N	N	N
P70330	N	N	N	N	N	N	N	N	N	N

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P7, 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 #
P70010	N	100	N	70	N	N	N	150	.02	26
P70020	N	300	N	70	N	N	N	100	.18	26
P70030	N	>5,000	N	100	20	N	N	100	2.96	26
P70040	N	>5,000	N	100	<20	N	N	70	.33	30
P70050	N	>5,000	N	15	N	N	N	30	.06	30
P70060	N	>5,000	N	70	N	N	1,000	70	2.18	30
P70070	N	>5,000	N	N	N	N	N	15	7.96	30
P70080	N	>5,000	N	100	N	N	<200	100	3.83	30
P70090	N	5,000	N	150	N	N	<200	150	.54	30
P70100	N	1,000	N	20	N	N	N	30	1.5	30
P70110	N	1,500	N	100	<20	N	N	100	.42	30
P70120	N	5,000	N	70	N	<10	N	100	4.16	30
P70130	N	1,500	N	100	N	<10	N	150	2.26	30
P70140	N	300	N	100	N	<10	>10,000	300	.21	30
P70150	N	1,000	N	100	N	N	10,000	100	.38	30
P70160	N	200	N	50	N	N	1,000	200	4.16	30
P70170	N	1,000	N	70	N	N	N	300	1.02	30
P70180	N	200	N	100	N	N	N	200	.2	30
P70190	N	<100	N	70	N	N	N	100	.16	30
P70200	N	<100	N	100	N	N	N	200	.7	30
P70210	N	N	N	15	N	N	N	100	.02	30
P70220	N	100	N	20	N	N	N	100	.05	30
P70230	N	N	N	20	<20	N	N	70	.04	30
P70240	N	1,000	N	30	N	N	N	150	.19	30
P70250	N	500	N	N	N	N	N	30	.01	30
P70260	N	N	N	N	N	N	N	15	<.01	30
P70270	N	N	N	N	N	N	N	10	<.01	30
P70280	N	N	N	N	N	N	N	70	.01	30
P70290	N	N	N	N	N	N	N	50	.02	30
P70300	N	N	N	N	N	N	N	<10	.01	32
P70310	N	N	N	N	N	N	N	30	<.01	32
P70320	N	N	N	N	N	N	N	50	<.01	32
P70330	N	N	N	N	N	N	N	10	<.01	32

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80050	37 41 11	89 52 1	N	<.05	N	N	N	<.002
P80060	37 41 11	89 52 1	N	.05	<.02	N	N	.005
P80070	37 41 11	89 52 1	N	.07	<.02	N	N	.007
P80080	37 41 11	89 52 1	N	.2	.02	N	N	.01
P80090	37 41 11	89 52 1	N	.07	<.02	N	N	.007
P80100	37 41 11	89 52 1	N	.3	.05	N	N	.05
P80110	37 41 11	89 52 1	N	.1	.03	N	N	.01
P80120	37 41 11	89 52 1	N	.07	N	N	N	<.002
P80130	37 41 11	89 52 1	N	.05	N	N	N	.002
P80135	37 41 11	89 52 1	N	<.05	<.02	N	N	.003
P80150	37 41 11	89 52 1	N	.05	N	N	N	<.002
P80160	37 41 11	89 52 1	N	.07	<.02	N	N	.002
P80170	37 41 11	89 52 1	N	.15	.05	N	N	.01
P80180	37 41 11	89 52 1	N	.2	.1	N	N	.02
P80190	37 41 11	89 52 1	.3	.5	1	N	N	.03
P80200	37 41 11	89 52 1	N	.15	.03	N	N	.01
P80210	37 41 11	89 52 1	<.05	.5	.3	N	N	.05
P80220	37 41 11	89 52 1	N	.3	.2	N	N	.02
P80230	37 41 11	89 52 1	<.05	.3	.2	N	N	.02
P80240	37 41 11	89 52 1	<.05	.3	.2	N	N	.03
P80250	37 41 11	89 52 1	.1	.3	.3	N	N	.03
P80260	37 41 11	89 52 1	N	.07	.02	N	N	.005
P80270	37 41 11	89 52 1	.2	.1	.5	N	N	.015
P80280	37 41 11	89 52 1	.05	.7	.5	N	N	.05
P80290	37 41 11	89 52 1	.15	.5	.5	N	N	.03
P80300	37 41 11	89 52 1	.15	1	.7	N	N	.07
P80310	37 41 11	89 52 1	.07	.5	.2	N	N	.05
P80320	37 41 11	89 52 1	.7	.3	1	N	N	.02
P80330	37 41 11	89 52 1	1	.2	1	N	N	.02
P80340	37 41 11	89 52 1	<.05	.5	.2	N	N	.05
P80350	37 41 11	89 52 1	1.5	.7	2	N	N	.07
P80360	37 41 11	89 52 1	.15	1	.2	N	N	.015
P80370	37 41 11	89 52 1	.1	.5	.3	N	N	.03
P80380	37 41 11	89 52 1	2	1	3	<.2	N	.07
P80390	37 41 11	89 52 1	3	.3	3	N	N	.02
P80400	37 41 11	89 52 1	7	.7	5	N	N	.07
P80410	37 41 11	89 52 1	2	.7	3	N	N	3
P80420	37 41 11	89 52 1	.15	1	.7	N	N	.05
P80430	37 41 11	89 52 1	2	1.5	3	N	N	.1
P80440	37 41 11	89 52 1	.15	1	.1	N	N	.05
P80450	37 41 11	89 52 1	.3	1	.3	N	N	.02
P80460	37 41 11	89 52 1	.15	1	.2	N	N	.03
P80470	37 41 11	89 52 1	.5	1.5	.3	N	N	.02
P80480	37 41 11	89 52 1	.1	.7	.1	N	N	.02
P80490	37 41 11	89 52 1	.3	1	.7	N	N	.015
P80500	37 41 11	89 52 1	1.5	5	1.5	N	N	.2
P80510	37 41 11	89 52 1	2	.5	2	N	N	.015
P80520	37 41 11	89 52 1	1.5	.5	1	N	N	.02
P80530	37 41 11	89 52 1	1	1	.7	N	N	.03
P80540	37 41 11	89 52 1	1.5	.7	1.5	N	N	.015
P80550	37 41 11	89 52 1	5	.7	5	N	N	.03
P80560	37 41 11	89 52 1	.7	5	1	N	N	.03
P80570	37 41 11	89 52 1	.5	.7	.5	N	N	.02
P80580	37 41 11	89 52 1	2	.7	2	N	N	.02
P80590	37 41 11	89 52 1	1	.5	1	N	N	.03
P80600	37 41 11	89 52 1	.2	.5	.2	N	N	.02
P80605	37 41 11	89 52 1	.05	1	.05	N	N	.02
P80620	37 41 11	89 52 1	.7	1	.7	N	N	.05
P80630	37 41 11	89 52 1	.2	1.5	.2	N	N	.03
P80640	37 41 11	89 52 1	1	1	.5	N	N	.02

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80050	N	N	N	N	N	N	N	N	N	N	N
P80060	N	N	N	N	<20	N	N	N	N	N	N
P80070	N	N	N	N	<20	N	N	N	N	N	N
P80080	N	N	N	N	20	N	N	N	N	N	N
P80090	N	N	N	N	20	N	N	N	N	N	N
P80100	N	N	N	<10	30	N	N	N	N	N	<5
P80110	N	N	N	N	<20	N	N	N	N	N	N
P80120	N	N	N	N	N	N	N	N	N	N	N
P80130	N	N	N	N	N	N	N	N	N	N	N
P80135	N	N	N	N	N	N	N	N	N	N	N
P80150	N	N	N	N	<20	N	N	N	N	N	N
P80160	N	N	N	N	150	N	N	N	N	N	N
P80170	N	N	N	N	<20	N	N	N	N	N	<5
P80180	N	N	N	10	20	N	N	N	N	N	<5
P80190	N	N	N	15	50	N	N	N	N	N	50
P80200	N	N	N	N	30	N	N	N	N	N	10
P80210	N	N	N	20	50	N	N	N	N	N	5
P80220	N	N	N	15	30	N	N	N	N	N	<5
P80230	N	N	N	10	20	N	N	N	N	N	<5
P80240	N	N	N	15	2,000	N	N	70	N	N	15
P80250	N	N	N	10	150	N	N	N	N	N	7
P80260	N	N	N	N	70	N	N	N	N	N	5
P80270	N	N	N	<10	100	N	N	N	N	N	5
P80280	N	N	N	10	70	N	N	N	N	<10	7
P80290	N	N	N	<10	50	N	N	N	N	N	5
P80300	N	N	N	50	150	N	N	N	N	<10	10
P80310	N	N	N	15	100	N	N	N	N	<10	5
P80320	N	N	N	20	70	N	N	N	N	N	<5
P80330	N	N	N	20	100	N	N	N	N	N	<5
P80340	N	N	N	30	70	N	N	N	N	<10	5
P80350	N	N	N	50	150	N	N	N	N	10	5
P80360	N	N	N	15	50	N	N	N	<10	N	10
P80370	N	N	N	15	100	N	N	N	N	N	<5
P80380	<.5	N	N	20	100	N	N	N	<10	10	50
P80390	N	N	N	20	70	N	N	N	N	N	10
P80400	N	N	N	20	100	N	N	N	N	<10	15
P80410	N	N	N	30	70	N	N	N	N	N	15
P80420	N	N	N	30	100	N	N	N	15	<10	20
P80430	N	N	N	50	150	<1	N	N	N	10	15
P80440	N	N	N	20	100	N	N	N	N	N	10
P80450	N	N	N	20	30	N	N	N	N	N	7
P80460	N	N	N	15	50	N	N	N	N	N	10
P80470	N	N	N	20	70	N	N	N	N	N	7
P80480	N	N	N	15	30	N	N	N	N	N	<5
P80490	N	N	N	15	<20	N	N	N	N	N	5
P80500	.5	1,000	N	70	200	<1	N	N	<10	15	20
P80510	N	N	N	10	20	N	N	N	N	N	<5
P80520	N	N	N	20	50	N	N	N	N	N	<5
P80530	N	N	N	15	70	N	N	N	<10	N	10
P80540	N	N	N	15	30	N	N	N	20	N	5
P80550	N	N	N	15	50	N	N	N	N	N	5
P80560	N	N	N	20	70	N	N	N	N	N	<5
P80570	N	N	N	15	50	N	N	N	50	N	<5
P80580	N	N	N	15	50	N	N	N	N	N	7
P80590	N	N	N	30	50	N	N	N	N	N	5
P80600	N	N	N	15	50	N	N	N	N	N	<5
P80605	N	N	N	10	20	N	N	N	N	N	5
P80620	N	N	N	30	70	N	N	N	N	N	7
P80630	N	N	N	15	70	N	N	N	N	N	10
P80640	N	N	N	15	50	N	N	N	N	N	5

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80050	N	N	N	N	N	N	N	N	N	N
P80060	N	N	N	N	N	N	N	N	N	N
P80070	N	N	N	N	N	N	N	N	N	N
P80080	N	N	N	<10	N	N	<5	N	N	N
P80090	N	N	N	N	N	N	N	N	N	N
P80100	N	N	N	70	N	N	<5	N	N	N
P80110	N	N	N	N	N	N	<5	N	N	N
P80120	N	N	N	N	N	N	<5	N	N	N
P80130	N	N	N	N	N	N	<5	N	N	N
P80135	N	N	N	N	N	N	N	N	N	N
P80150	N	N	N	N	N	N	<5	N	N	N
P80160	N	N	N	N	N	N	N	N	N	N
P80170	N	N	N	N	N	N	<5	N	N	N
P80180	N	N	N	N	N	N	5	N	N	N
P80190	N	N	N	<10	100	N	15	10	N	N
P80200	N	N	N	N	10	N	<5	N	N	N
P80210	N	N	N	N	20	N	10	N	N	N
P80220	N	N	N	N	20	N	5	N	N	N
P80230	N	N	N	N	10	N	7	N	N	N
P80240	N	N	N	N	20	N	7	N	N	N
P80250	N	N	N	N	30	N	7	N	N	N
P80260	N	N	N	N	<5	N	N	N	N	N
P80270	N	N	N	N	5	N	N	N	N	N
P80280	N	N	N	N	30	N	10	N	N	N
P80290	N	N	N	N	50	N	10	N	N	N
P80300	<5	N	N	<10	50	N	15	10	N	N
P80310	N	N	N	N	<5	N	10	N	N	N
P80320	N	N	N	N	5	N	5	N	N	N
P80330	N	N	N	<10	5	N	<5	N	N	N
P80340	N	N	N	N	7	N	7	N	N	N
P80350	5	N	N	10	<5	N	10	<10	N	N
P80360	N	N	N	N	7	N	15	N	N	N
P80370	N	N	N	N	<5	N	7	N	N	N
P80380	15	N	N	<10	10	N	15	20	N	N
P80390	N	N	N	<10	<5	N	10	N	N	N
P80400	<5	N	N	30	<5	N	10	<10	N	N
P80410	7	N	N	<10	5	N	10	10	N	N
P80420	5	N	N	N	5	N	7	15	N	N
P80430	10	N	N	10	15	N	10	15	N	N
P80440	N	N	N	N	20	N	10	N	N	N
P80450	N	N	N	N	20	N	10	<10	N	N
P80460	N	N	N	N	30	N	15	N	N	N
P80470	N	N	N	N	20	N	15	N	N	N
P80480	N	N	N	N	10	N	5	N	N	N
P80490	N	N	N	N	15	N	7	N	N	N
P80500	7	N	N	10	50	N	20	30	N	N
P80510	N	N	N	N	5	N	<5	N	N	N
P80520	N	N	N	N	7	N	<5	N	N	N
P80530	N	N	N	N	10	N	10	<10	N	N
P80540	N	N	N	N	7	N	5	N	N	N
P80550	N	N	N	<10	10	N	7	<10	N	N
P80560	N	N	N	N	15	N	7	N	N	N
P80570	N	N	N	N	10	N	5	N	N	N
P80580	N	N	N	N	5	N	7	<10	N	N
P80590	N	N	N	N	15	N	7	N	N	N
P80600	N	N	N	N	10	N	5	N	N	N
P80605	N	N	N	<10	15	N	7	N	N	N
P80620	N	N	N	N	20	N	10	<10	N	N
P80630	N	N	N	N	20	N	10	N	N	N
P80640	N	N	N	N	15	N	7	N	N	N

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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 #
P80050	N	N	N	N	N	N	N	<10	<.01	32
P80060	N	N	N	N	N	N	N	30	<.01	32
P80070	N	N	N	N	N	N	N	50	<.01	32
P80080	N	N	N	N	N	N	N	50	<.01	32
P80090	N	N	N	N	N	N	N	70	<.01	32
P80100	N	N	N	10	N	N	N	70	<.01	32
P80110	N	N	N	N	N	N	N	100	<.01	32
P80120	N	N	N	N	N	N	N	N	<.01	32
P80130	N	N	N	N	N	N	N	10	<.01	32
P80135	N	N	N	N	N	N	N	<10	<.01	32
P80150	N	N	N	N	N	N	500	<10	<.01	32
P80160	N	N	N	N	N	N	N	50	<.01	43
P80170	N	N	N	N	N	N	N	20	.01	43
P80180	N	N	N	N	N	N	N	30	.02	43
P80190	N	<100	N	30	N	N	200	30	.04	43
P80200	N	N	N	N	N	N	N	30	.01	43
P80210	N	<100	N	30	N	N	500	50	.04	43
P80220	N	N	N	20	N	N	N	70	.02	43
P80230	N	N	N	10	N	N	700	50	.02	43
P80240	N	<100	N	15	N	N	>10,000	70	.02	43
P80250	N	N	N	15	N	N	2,000	20	.02	43
P80260	N	N	N	N	N	N	3,000	30	.01	43
P80270	N	<100	N	20	N	N	200	70	.01	43
P80280	N	<100	N	100	N	N	300	50	.04	43
P80290	N	N	N	20	N	N	700	100	.02	43
P80300	N	N	N	100	N	N	500	70	.04	43
P80310	N	N	N	50	N	N	N	70	.04	43
P80320	N	N	N	15	N	N	500	30	.03	43
P80330	N	<100	N	15	N	N	N	10	.03	43
P80340	N	<100	N	30	N	N	N	30	.04	43
P80350	N	N	N	30	N	N	N	100	.07	43
P80360	N	N	N	20	N	N	N	15	.01	43
P80370	N	<100	N	20	N	N	N	50	.02	43
P80380	N	N	N	30	N	N	N	20	.06	43
P80390	N	N	N	20	N	N	N	<10	.01	51
P80400	N	<100	N	30	N	N	N	50	.04	51
P80410	N	N	N	20	N	N	N	15	.02	51
P80420	N	N	N	20	N	N	N	20	.03	51
P80430	N	<100	N	30	N	N	N	30	.06	51
P80440	N	N	N	15	N	N	300	15	.02	51
P80450	N	N	N	10	N	N	N	10	.02	51
P80460	N	N	N	15	N	N	N	15	.02	51
P80470	N	N	N	<10	N	N	N	10	.01	51
P80480	N	N	N	N	N	N	N	15	.01	51
P80490	N	N	N	N	N	N	N	<10	.01	51
P80500	N	100	N	50	N	N	N	50	.05	51
P80510	N	N	N	N	N	N	N	<10	.01	51
P80520	N	N	N	10	N	N	N	10	.02	51
P80530	N	N	N	20	N	N	<200	50	.04	51
P80540	N	N	N	N	N	N	N	15	.02	51
P80550	N	N	N	15	100	N	N	20	.02	51
P80560	N	N	N	15	N	N	N	30	.02	51
P80570	N	N	N	<10	N	N	N	20	.02	51
P80580	N	N	N	N	N	N	N	20	.01	51
P80590	N	N	N	10	N	N	N	70	.02	51
P80600	N	N	N	N	N	N	N	<10	.01	51
P80605	N	N	N	<10	N	N	N	15	.03	52
P80620	N	N	N	10	N	N	N	10	.03	52
P80630	N	N	N	10	N	N	N	30	.02	52
P80640	N	N	N	N	N	N	N	<10	.01	52

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80650	37 41 11	89 52 1	.5	.7	.7	N	N	.03
P80660	37 41 11	89 52 1	1.5	1	1	N	N	.03
P80670	37 41 11	89 52 1	.7	1	.3	N	N	.03
P80680	37 41 11	89 52 1	.3	3	.5	N	N	.05
P80690	37 41 11	89 52 1	.7	3	1	N	N	.05
P80700	37 41 11	89 52 1	1	2	1	N	N	.05
P80710	37 41 11	89 52 1	2	2	.7	N	N	.05
P80720	37 41 11	89 52 1	1.5	1	1	N	N	.05
P80730	37 41 11	89 52 1	1	5	.7	N	N	.05
P80740	37 41 11	89 52 1	3	1	5	N	N	.02
P80750	37 41 11	89 52 1	.3	1	.3	N	N	.02
P80760	37 41 11	89 52 1	.3	.7	.2	N	N	.02
P80770	37 41 11	89 52 1	1.5	1	1	N	N	.05
P80780	37 41 11	89 52 1	2	1.5	1	N	N	.1
P80790	37 41 11	89 52 1	3	1	3	N	N	.02
P80800	37 41 11	89 52 1	3	1.5	5	N	N	.07
P80810	37 41 11	89 52 1	.7	2	1	N	N	.1
P80820	37 41 11	89 52 1	.5	1	.2	N	N	.03
P80830	37 41 11	89 52 1	1	1	.7	N	N	.05
P80840	37 41 11	89 52 1	2	.5	1	N	N	.03
P80850	37 41 11	89 52 1	.5	.3	.15	N	N	.03
P80860	37 41 11	89 52 1	2	1.5	5	N	N	.2
P80870	37 41 11	89 52 1	.15	1.5	.07	N	N	.1
P80880	37 41 11	89 52 1	.15	3	.1	N	N	.05
P80890	37 41 11	89 52 1	.15	2	.5	N	N	.3
P80900	37 41 11	89 52 1	.1	1	.2	N	N	.07
P80910	37 41 11	89 52 1	.07	.5	.07	N	N	.05
P80920	37 41 11	89 52 1	<.05	.2	.02	N	N	.015
P80930	37 41 11	89 52 1	.1	.5	.15	N	N	.05
P80940	37 41 11	89 52 1	.15	.3	.3	N	N	.03
P80950	37 41 11	89 52 1	.2	.5	.5	N	N	.03
P80960	37 41 11	89 52 1	.15	.3	.15	N	N	.03
P80970	37 41 11	89 52 1	N	.5	.1	N	N	.03
P80980	37 41 11	89 52 1	<.05	.1	.02	N	N	.01
P80990	37 41 11	89 52 1	N	.15	<.02	N	N	.007
P81000	37 41 11	89 52 1	N	.2	.03	N	N	.015
P81005	37 41 11	89 52 1	.07	1.5	.2	N	N	.1
P81020	37 41 11	89 52 1	N	.05	<.02	N	N	.002
P81030	37 41 11	89 52 1	N	.05	N	N	N	.005
P81040	37 41 11	89 52 1	N	.2	.03	N	N	.02
P81050	37 41 11	89 52 1	N	.3	.1	N	N	.03
P81060	37 41 11	89 52 1	N	.3	.07	N	N	.03
P81070	37 41 11	89 52 1	N	.07	.02	N	N	.007
P81080	37 41 11	89 52 1	.15	.15	.5	N	N	.03
P81090	37 41 11	89 52 1	N	.3	.1	N	N	.03
P81100	37 41 11	89 52 1	N	.5	.07	N	N	.03
P81110	37 41 11	89 52 1	.2	.5	.5	N	N	.05
P81120	37 41 11	89 52 1	.2	1	.3	N	N	.05
P81130	37 41 11	89 52 1	.5	1	1	N	N	.03
P81140	37 41 11	89 52 1	.05	.2	.1	N	N	.02
P81150	37 41 11	89 52 1	.7	.7	1.5	N	N	.02
P81160	37 41 11	89 52 1	1	2	1.5	N	N	.03
P81170	37 41 11	89 52 1	N	.2	.05	N	N	.02
P81180	37 41 11	89 52 1	N	.15	.05	N	N	.015
P81190	37 41 11	89 52 1	N	.3	.07	N	N	.02
P81200	37 41 11	89 52 1	<.05	1	.2	N	N	.05

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80650	N	N	N	20	100	N	N	N	N	N	<5
P80660	N	N	N	20	70	N	N	N	N	N	7
P80670	N	N	N	20	70	N	N	N	N	N	7
P80680	<.5	<200	N	30	100	N	N	N	N	<10	15
P80690	N	N	N	50	200	N	N	N	<10	<10	20
P80700	N	N	N	30	100	N	N	N	200	<10	15
P80710	N	N	N	30	100	N	N	N	<10	<10	10
P80720	N	N	N	30	70	N	N	N	N	N	7
P80730	.5	N	N	50	150	N	N	N	10	<10	30
P80740	N	N	N	20	70	N	N	N	N	N	5
P80750	N	N	N	30	100	N	N	N	N	N	5
P80760	N	N	N	30	100	N	N	N	N	N	5
P80770	N	N	N	50	500	N	N	N	N	<10	7
P80780	N	N	N	50	200	N	N	N	10	10	20
P80790	N	N	N	20	70	N	N	N	N	N	5
P80800	N	N	N	30	150	N	N	N	N	15	20
P80810	N	N	N	50	200	N	N	N	<10	<10	20
P80820	N	N	N	10	150	N	N	N	N	N	20
P80830	N	N	N	20	100	N	N	N	N	N	10
P80840	N	N	N	30	100	N	N	N	N	N	5
P80850	N	N	N	15	70	N	N	N	N	N	<5
P80860	N	N	N	50	150	N	N	N	N	15	10
P80870	N	N	N	30	70	N	N	N	N	N	10
P80880	N	N	N	30	50	N	N	N	N	N	7
P80890	N	N	N	50	300	N	N	N	N	10	20
P80900	N	N	N	30	100	N	N	N	N	<10	15
P80910	N	N	N	20	70	N	N	N	N	N	5
P80920	N	N	N	10	30	N	N	N	N	N	N
P80930	N	N	N	20	100	N	N	N	N	N	5
P80940	N	N	N	20	70	N	N	N	N	N	<5
P80950	N	N	N	15	100	N	N	N	N	N	5
P80960	N	N	N	20	150	N	N	N	N	N	<5
P80970	N	N	N	30	50	N	N	N	N	N	<5
P80980	N	N	N	10	100	N	N	N	N	N	5
P80990	N	N	N	<10	30	N	N	N	N	N	N
P81000	N	N	N	15	70	N	N	N	N	N	<5
P81005	N	N	N	30	200	N	N	N	20	<10	20
P81020	N	N	N	N	<20	N	N	N	N	N	N
P81030	N	N	N	N	<20	N	N	N	N	N	N
P81040	N	N	N	10	70	N	N	N	N	N	<5
P81050	N	N	N	15	200	N	N	N	N	N	5
P81060	N	N	N	20	100	N	N	N	N	N	5
P81070	N	N	N	N	50	N	N	N	N	N	N
P81080	N	N	N	10	100	N	N	N	N	N	<5
P81090	N	N	N	20	20	N	N	N	N	N	<5
P81100	N	N	N	20	30	N	N	N	N	N	5
P81110	N	N	N	30	100	N	N	N	N	N	<5
P81120	N	N	N	30	70	N	N	N	N	N	<5
P81130	N	N	N	15	70	N	N	N	N	<10	20
P81140	N	N	N	30	30	N	N	N	N	N	<5
P81150	N	N	N	15	20	N	N	N	N	N	<5
P81160	<.5	N	N	20	30	N	N	N	<10	N	30
P81170	N	N	N	30	50	N	N	N	N	<10	5
P81180	N	N	N	30	20	N	N	N	N	N	<5
P81190	N	N	N	20	50	N	N	N	N	N	5
P81200	N	N	N	30	100	N	N	N	N	<10	7

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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
P80650	N	N	N	<10	7	N	5	N	N	N
P80660	N	N	N	N	20	N	7	N	N	N
P80670	N	N	N	N	30	N	10	<10	N	N
P80680	<5	N	N	<10	20	N	15	20	N	N
P80690	<5	N	N	<10	30	N	15	<10	N	N
P80700	<5	N	N	N	20	N	20	10	N	N
P80710	<5	N	N	N	20	N	10	N	N	N
P80720	N	N	N	N	10	N	7	N	N	N
P80730	5	N	N	<10	50	N	20	<10	N	N
P80740	N	N	N	10	15	N	10	15	N	N
P80750	N	N	N	N	5	N	5	N	N	N
P80760	N	N	N	N	7	N	<5	N	N	N
P80770	N	N	N	N	10	N	5	N	N	N
P80780	5	N	N	<10	30	N	15	20	N	N
P80790	N	N	N	N	5	N	10	N	N	N
P80800	10	N	N	10	20	N	10	15	N	N
P80810	<5	N	N	10	30	N	15	10	N	N
P80820	N	N	N	N	15	N	7	N	N	N
P80830	N	N	N	N	10	N	<5	N	N	N
P80840	N	N	N	N	20	N	<5	N	N	N
P80850	N	N	N	N	<5	N	5	N	N	N
P80860	7	N	N	10	30	N	10	15	N	N
P80870	N	N	N	<10	50	N	10	N	N	N
P80880	N	N	N	N	30	N	15	N	N	N
P80890	10	N	N	15	30	N	20	20	N	N
P80900	<5	N	N	<10	10	N	10	N	N	N
P80910	N	N	N	N	<5	N	5	N	N	N
P80920	N	N	N	N	N	N	<5	N	N	N
P80930	N	N	N	N	5	N	5	N	N	N
P80940	N	N	N	N	5	N	<5	<10	N	N
P80950	N	N	N	N	5	N	<5	N	N	N
P80960	N	N	N	N	7	N	<5	N	N	N
P80970	N	N	N	N	<5	N	20	N	N	N
P80980	N	N	N	N	N	N	N	N	N	N
P80990	N	N	N	N	N	N	<5	N	N	N
P81000	N	N	N	N	N	N	<5	N	N	N
P81005	7	N	N	<10	<5	N	10	20	N	N
P81020	N	N	N	N	N	N	N	N	N	N
P81030	N	N	N	N	N	N	N	N	N	N
P81040	N	N	N	N	<5	N	<5	N	N	N
P81050	N	N	N	N	<5	N	5	N	N	N
P81060	N	N	N	N	<5	N	7	N	N	N
P81070	N	N	N	N	N	N	N	N	N	N
P81080	N	N	N	N	N	N	N	N	N	N
P81090	N	N	N	N	N	N	<5	N	N	N
P81100	N	N	N	N	N	N	<5	N	N	N
P81110	N	N	N	N	N	N	<5	N	N	N
P81120	N	N	N	N	20	N	5	N	N	N
P81130	N	N	N	N	5	N	30	N	N	N
P81140	N	N	N	N	5	N	<5	N	N	N
P81150	N	N	N	N	15	N	15	10	N	N
P81160	N	N	N	N	70	N	30	20	N	N
P81170	N	N	N	N	10	N	10	N	N	N
P81180	N	N	N	N	<5	N	<5	<10	N	N
P81190	N	N	N	N	5	N	5	N	N	N
P81200	<5	N	N	<10	20	N	10	<10	N	N

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P8, 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 #
P80650	N	N	N	10	N	N	N	50	.02	52
P80660	N	N	N	15	N	N	200	<10	.01	52
P80670	N	N	N	10	N	N	<200	15	.02	52
P80680	N	N	N	20	N	N	<200	50	.03	52
P80690	N	100	N	15	N	N	<200	70	.04	52
P80700	N	<100	N	20	<20	N	N	30	.04	52
P80710	N	N	N	15	20	N	N	10	.01	52
P80720	N	<100	N	15	N	N	<200	15	.03	52
P80730	N	100	N	20	N	N	700	50	.02	52
P80740	N	<100	N	15	N	N	N	20	.03	52
P80750	N	N	N	10	N	N	2,000	30	.01	52
P80760	N	N	N	<10	N	N	500	50	.01	52
P80770	N	<100	N	20	N	N	N	70	.02	52
P80780	N	<100	N	30	N	N	N	70	.03	52
P80790	N	N	N	10	N	N	N	30	.01	52
P80800	N	<100	N	50	N	N	N	30	.05	52
P80810	N	<100	N	20	20	N	N	70	.04	52
P80820	N	N	N	10	N	N	<200	15	.01	52
P80830	N	N	N	15	N	N	300	50	.02	52
P80840	N	N	N	20	N	N	N	30	.03	52
P80850	N	N	N	15	N	N	<200	20	.05	52
P80860	N	N	N	30	N	N	N	30	.09	52
P80870	N	N	N	15	N	N	N	30	.02	52
P80880	N	N	N	10	N	N	<200	20	.02	52
P80890	N	N	N	20	N	N	N	50	.08	52
P80900	N	N	N	20	N	N	N	15	.04	52
P80910	N	N	N	10	N	N	N	30	.02	52
P80920	N	N	N	N	N	N	N	10	<.01	53
P80930	N	N	N	15	N	N	N	50	.03	53
P80940	N	N	N	15	N	N	N	15	.03	53
P80950	N	N	N	15	N	N	N	20	.02	53
P80960	N	N	N	10	N	N	N	30	.02	53
P80970	N	N	N	15	N	N	N	20	.02	53
P80980	N	N	N	N	N	N	N	30	<.01	53
P80990	N	N	N	N	N	N	N	<10	<.01	53
P81000	N	N	N	N	N	N	N	20	<.01	53
P81005	N	N	N	20	<20	N	N	50	.03	53
P81020	N	N	N	N	N	N	N	<10	<.01	53
P81030	N	N	N	N	N	N	N	<10	<.01	53
P81040	N	N	N	N	N	N	N	10	<.01	53
P81050	N	N	N	N	N	N	N	70	<.01	53
P81060	N	N	N	10	N	N	N	50	.01	53
P81070	N	N	N	N	N	N	N	30	<.01	53
P81080	N	N	N	10	N	N	N	100	.01	53
P81090	N	N	N	<10	N	N	N	N	.01	53
P81100	N	N	N	10	N	N	N	<10	.02	53
P81110	N	N	N	15	N	N	N	30	.02	53
P81120	N	N	N	15	N	N	N	15	.02	53
P81130	N	N	N	10	<20	N	N	20	.01	53
P81140	N	N	N	<10	N	N	N	30	<.01	53
P81150	N	N	N	10	N	N	N	20	<.01	53
P81160	N	N	N	20	N	N	N	10	.01	54
P81170	N	N	N	N	N	N	N	<10	<.01	54
P81180	N	N	N	N	N	N	N	<10	<.01	54
P81190	N	N	N	20	N	N	N	<10	.01	54
P81200	N	N	N	70	N	N	N	20	.03	32

TABLE 10--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P9, 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
P90010	37 36 8	89 49 59	.1	2	.5	.7	N	.7	N	N	N	20
P90020	37 36 8	89 49 59	.05	1	.15	<.2	N	.2	N	N	N	10
P90030	37 36 8	89 49 59	N	<.05	<.02	N	N	.003	N	N	N	N
P90040	37 36 8	89 49 59	N	.07	<.02	N	N	.005	N	N	N	10
P90060	37 36 8	89 49 59	N	N	<.02	N	N	.003	N	N	N	N
P90070	37 36 8	89 49 59	N	<.05	<.02	N	N	.005	N	N	N	N
P90080	37 36 8	89 49 59	N	.7	.03	N	N	.015	N	N	N	<10
P90090	37 36 8	89 49 59	N	.1	.03	N	N	.015	N	N	N	<10
P90095	37 36 8	89 49 59	N	1	.3	N	N	.07	N	N	N	N
P90110	37 36 8	89 49 59	N	.05	<.02	N	N	.003	<.5	N	N	N
P90120	37 36 8	89 49 59	N	.15	.03	N	N	.01	N	N	N	N
P90130	37 36 8	89 49 59	.15	.1	.05	N	N	.01	N	N	N	N
P90140	37 36 8	89 49 59	N	.15	.02	N	N	.005	N	N	N	N
P90150	37 36 8	89 49 59	N	.2	.05	N	N	.02	N	N	N	N
P90160	37 36 8	89 49 59	N	.15	.03	N	N	.005	3	N	N	N
P90170	37 36 8	89 49 59	N	.1	.03	N	N	.007	1	N	N	N
P90180	37 36 8	89 49 59	N	.2	.03	N	N	.01	<.5	N	N	N
P90190	37 36 8	89 49 59	2	.5	1.5	N	N	.03	N	N	N	10
P90200	37 36 8	89 49 59	.2	1	.7	N	N	.1	N	N	N	50
P90210	37 36 8	89 49 59	.3	.7	1	N	N	.07	N	N	N	15
P90220	37 36 8	89 49 59	.07	.5	.3	N	N	.05	N	N	N	20
P90230	37 36 8	89 49 59	.05	.15	.15	N	N	.02	N	N	N	10
P90240	37 36 8	89 49 59	.15	.07	.05	N	N	.007	.7	N	N	<10
P90250	37 36 8	89 49 59	1.5	.5	1	N	N	.02	N	N	N	10
P90260	37 36 8	89 49 59	1	5	1	N	N	.02	.5	200	N	15
P90270	37 36 8	89 49 59	N	.1	.03	N	N	.007	N	N	N	<10
P90280	37 36 8	89 49 59	N	.15	.02	N	N	.005	<.5	N	N	N
P90290	37 36 8	89 49 59	.2	1	.3	N	N	.07	N	N	N	30
P90300	37 36 8	89 49 59	.2	.7	.5	N	N	.05	N	N	N	30
P90310	37 36 8	89 49 59	1	.5	1	N	N	.05	N	N	N	30
P90320	37 36 8	89 49 59	<.05	.7	.05	N	N	.02	1.5	N	N	10
P90335	37 36 8	89 49 59	<.05	.7	.03	N	N	.03	1.5	N	N	30
P90350	37 36 8	89 49 59	.15	.07	.02	N	N	.007	N	N	N	20
P90360	37 36 8	89 49 59	5	1	5	<.2	N	.03	N	N	N	15
P90370	37 36 8	89 49 59	.5	.2	.07	N	N	.02	<.5	N	N	50
P90380	37 36 8	89 49 59	5	1	.5	<.2	N	.05	N	N	N	50
P90390	37 36 8	89 49 59	.5	.2	.7	N	N	.02	N	N	N	30
P90400	37 36 8	89 49 59	.15	.7	.15	N	N	.03	7	N	N	50
P90410	37 36 8	89 49 59	.05	.7	.07	N	N	.05	2	N	N	20
P90420	37 36 8	89 49 59	N	.5	.03	N	N	.02	N	N	N	N
P90425	37 36 8	89 49 59	N	2	.15	N	N	.05	.5	N	N	10
P90440	37 36 8	89 49 59	.05	3	1	<.2	N	.3	.7	N	N	30
P90450	37 36 8	89 49 59	<.05	2	.7	<.2	N	.2	N	N	N	50
P90460	37 36 8	89 49 59	7	3	7	<.2	N	.2	N	N	N	70
P90470	37 36 8	89 49 59	3	.7	3	N	N	.05	N	N	N	50
P90480	37 36 8	89 49 59	.7	1	1.5	N	N	.15	N	N	N	50
P90490	37 36 8	89 49 59	10	3	10	.2	N	.5	N	N	N	70
P90500	37 36 8	89 49 59	1.5	7	5	.2	N	1	N	N	N	150
P90510	37 36 8	89 49 59	5	1	5	N	N	.07	N	N	N	100
P90520	37 36 8	89 49 59	.2	1.5	.5	N	N	.02	N	N	N	15

TABLE 10--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P9, 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
P90010	500	N	N	N	<10	20	7	7	N	N	500	N	<20
P90020	150	N	N	N	N	<10	<5	<5	N	N	70	N	N
P90030	N	N	N	N	N	N	N	N	N	N	N	N	N
P90040	N	N	N	N	N	N	10	N	N	N	N	N	N
P90060	N	N	N	N	N	N	N	N	N	N	N	N	N
P90070	N	N	N	N	N	N	N	N	N	N	N	N	N
P90080	20	N	N	N	N	N	7	N	N	N	<10	N	N
P90090	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P90095	20	<1	N	N	<10	<10	30	<5	N	N	<10	<5	N
P90110	<20	N	N	N	N	N	N	N	N	N	N	N	N
P90120	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P90130	30	N	N	N	N	N	N	N	N	N	N	N	N
P90140	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P90150	20	N	N	N	N	N	<5	N	N	N	10	<5	N
P90160	<20	N	N	N	N	N	<5	N	N	N	N	<5	N
P90170	20	N	N	N	N	N	<5	N	N	N	N	N	N
P90180	20	N	N	N	N	N	<5	N	N	N	N	<5	N
P90190	50	N	N	N	N	<10	5	N	N	N	10	<5	N
P90200	200	N	N	N	N	20	10	5	N	N	<10	10	N
P90210	70	N	N	N	N	10	7	<5	N	N	N	5	N
P90220	100	N	N	N	N	<10	5	N	N	N	N	<5	N
P90230	50	N	N	N	N	N	<5	N	N	N	N	N	N
P90240	50	N	N	N	N	N	10	N	N	N	N	N	N
P90250	70	N	N	N	N	N	7	N	N	N	<10	<5	N
P90260	100	N	N	<20	N	N	20	5	N	N	10	100	N
P90270	20	N	N	N	N	<10	50	N	N	N	N	N	N
P90280	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P90290	150	N	N	N	N	10	7	<5	N	N	<10	<5	N
P90300	150	N	N	N	N	<10	5	N	N	N	<10	<5	N
P90310	100	N	N	N	N	<10	<5	N	N	N	<10	N	N
P90320	70	N	N	N	N	N	<5	N	N	N	N	<5	N
P90335	70	N	N	N	N	N	<5	N	N	N	N	<5	N
P90350	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P90360	70	N	N	N	N	<10	10	<5	N	N	<10	7	N
P90370	100	N	N	N	N	N	5	N	N	N	N	5	N
P90380	100	N	N	N	N	<10	15	5	N	N	10	30	N
P90390	50	N	N	N	N	N	<5	N	N	N	N	<5	N
P90400	30	N	N	N	N	N	7	N	N	N	N	20	N
P90410	200	N	N	N	N	N	5	N	N	N	N	<5	N
P90420	150	N	N	N	N	N	<5	N	N	N	N	<5	N
P90425	200	N	N	N	N	N	15	N	N	N	N	10	N
P90440	500	N	N	N	N	10	50	15	N	N	30	20	N
P90450	700	N	N	N	N	10	10	10	N	N	<10	30	N
P90460	200	<1	N	N	N	20	7	20	N	N	50	50	N
P90470	100	N	N	N	N	N	10	N	N	N	10	30	N
P90480	300	N	N	N	N	<10	10	7	N	N	<10	50	N
P90490	500	1	N	N	<10	20	7	50	N	N	200	20	N
P90500	500	2	N	N	10	70	50	70	N	N	30	70	<20
P90510	100	N	N	N	N	<10	5	<5	N	N	<10	20	N
P90520	<20	N	N	N	N	N	<5	N	N	N	N	5	N

TABLE 10--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P9, 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 #
P90010	10	<10	N	<5	N	N	N	70	N	<10	N	200	<.01	32
P90020	<5	N	N	N	N	N	N	30	N	N	N	150	<.01	32
P90030	N	N	N	N	N	N	N	N	N	N	N	30	<.01	32
P90040	N	N	N	N	N	N	N	N	N	N	N	15	<.01	32
P90060	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	32
P90070	N	N	N	N	N	N	N	N	N	N	N	50	<.01	32
P90080	5	<10	N	N	N	N	N	15	N	N	N	50	.01	32
P90090	N	N	N	N	N	N	N	10	N	N	N	150	.01	32
P90095	15	30	N	N	N	100	N	70	N	N	<200	- 200	.05	32
P90110	N	N	N	N	N	N	N	N	N	N	N	20	<.01	43
P90120	<5	N	N	N	N	N	N	N	N	N	N	30	.01	43
P90130	N	N	N	N	N	N	N	N	N	N	N	50	<.01	43
P90140	N	N	N	N	N	N	N	N	N	N	N	15	<.01	43
P90150	<5	N	N	N	N	N	N	N	N	N	N	100	.01	43
P90160	<5	N	N	N	N	N	N	N	N	N	N	30	<.01	43
P90170	N	N	N	N	N	N	N	N	20	N	N	100	<.01	43
P90180	<5	N	N	N	N	N	N	N	N	N	N	70	.01	43
P90190	5	N	N	N	N	<100	N	10	N	N	N	100	.01	43
P90200	10	<10	N	N	N	<100	N	70	N	N	<200	70	.08	43
P90210	7	N	N	N	N	N	N	20	N	N	N	70	.05	43
P90220	<5	N	N	N	N	N	N	20	N	N	N	100	.03	43
P90230	N	N	N	N	N	N	N	15	N	N	N	50	.02	43
P90240	N	N	N	N	N	N	N	N	N	N	N	15	<.01	43
P90250	N	N	N	N	N	N	N	<10	N	N	N	150	.02	43
P90260	10	10	N	N	N	<100	N	10	N	N	10,000	20	.03	51, 52
P90270	N	N	N	N	N	N	N	N	N	N	N	70	<.01	51, 52
P90280	N	N	N	N	N	N	N	N	N	N	N	10	<.01	51, 52
P90290	10	N	N	N	N	N	N	20	N	N	N	70	.04	51, 52
P90300	7	N	N	N	N	<100	N	15	N	N	N	50	.01	51, 52
P90310	N	N	N	N	N	<100	N	20	N	N	N	200	.03	51, 52
P90320	N	N	N	N	N	N	N	10	N	N	N	50	.01	51, 52
P90335	<5	N	N	N	N	N	N	15	N	N	N	15	.03	51, 52
P90350	N	N	N	N	N	N	N	10	N	N	N	N	.01	51, 52
P90360	5	N	N	N	N	N	N	20	N	N	N	20	.02	51, 52
P90370	<5	N	N	N	N	N	N	15	N	N	N	10	<.01	51, 52
P90380	10	10	N	N	N	<100	N	50	N	N	N	30	.03	51, 52
P90390	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	51, 52
P90400	5	N	N	N	N	N	N	N	N	N	N	10	.01	51, 52
P90410	<5	N	N	N	N	N	N	N	N	N	N	70	<.01	51, 52
P90420	N	N	N	N	N	N	N	N	N	N	N	30	<.01	51, 52
P90425	10	<10	N	N	N	N	N	20	N	N	N	100	.02	51, 52
P90440	15	70	N	N	N	N	N	70	N	N	N	70	.05	51, 52
P90450	15	N	N	N	N	N	N	50	N	N	N	70	.05	51, 52
P90460	15	<10	N	N	N	N	N	70	N	N	N	50	.09	51, 52
P90470	10	<10	N	N	N	N	N	50	N	N	N	30	.03	51, 52
P90480	10	<10	N	N	N	N	N	30	N	N	N	70	.04	51, 52
P90490	15	15	N	<5	N	200	N	70	N	N	N	70	.1	51, 52
P90500	20	100	N	<5	N	<100	N	150	N	N	N	100	.14	51, 52
P90510	7	N	N	N	N	N	N	50	<20	N	N	50	.04	51, 52
P90520	5	<10	N	N	N	N	N	20	N	N	N	<10	.01	51, 52

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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
P100030	37 43 42	89 42 25	1	7	3	N	N	.3
P100040	37 43 42	89 42 25	3	7	3	<.2	N	.5
P100050	37 43 42	89 42 25	.15	1	.5	N	N	.07
P100060	37 43 42	89 42 25	.5	1.5	.7	N	N	.1
P100070	37 43 42	89 42 25	.2	.1	.3	N	N	.01
P100080	37 43 42	89 42 25	.5	.3	.5	N	N	.05
P100090	37 43 42	89 42 25	.7	1	.7	N	N	.07
P100100	37 43 42	89 42 25	3	.7	1	N	N	.07
P100110	37 43 42	89 42 25	.2	.07	.07	N	N	.003
P100120	37 43 42	89 42 25	.1	.15	.05	N	N	.005
P100130	37 43 42	89 42 25	.15	.1	.07	N	N	.01
P100140	37 43 42	89 42 25	.7	.2	.7	N	N	.02
P100150	37 43 42	89 42 25	2	1	1	N	N	.07
P100160	37 43 42	89 42 25	7	7	5	.5	N	.5
P100170	37 43 42	89 42 25	.7	7	2	<.2	N	.3
P100180	37 43 42	89 42 25	1	1.5	1.5	N	N	.15
P100190	37 43 42	89 42 25	1	2	1.5	N	N	.2
P100200	37 43 42	89 42 25	.3	3	1.5	N	N	.3
P100210	37 43 42	89 42 25	2	5	2	<.2	N	.5
P100220	37 43 42	89 42 25	2	2	3	N	N	.2
P100230	37 43 42	89 42 25	.3	5	2	.2	N	.7
P100240	37 43 42	89 42 25	.5	2	1	.2	N	.3
P100250	37 43 42	89 42 25	.07	.1	.03	N	N	.01
P100260	37 43 42	89 42 25	.1	.5	.05	N	N	.02
P100270	37 43 42	89 42 25	.1	.2	.05	N	N	.007
P100280	37 43 42	89 42 25	<.05	.07	.02	N	N	.003
P100290	37 43 42	89 42 25	.15	.5	.05	N	N	.02
P100300	37 43 42	89 42 25	.7	2	.5	<.2	N	.15
P100310	37 43 42	89 42 25	.2	2	1	.2	N	.2
P100320	37 43 42	89 42 25	.7	1.5	.7	<.2	N	.15
P100330	37 43 42	89 42 25	.5	3	1.5	.2	N	.3
P100340	37 43 42	89 42 25	1	5	1	<.2	N	.15
P100350	37 43 42	89 42 25	.05	5	3	.2	N	.2
P100360	37 43 42	89 42 25	<.05	5	2	<.2	N	.03
P100370	37 43 42	89 42 25	.05	3	3	<.2	N	.05
P100380	37 43 42	89 42 25	<.05	10	1.5	N	N	.05
P100390	37 43 42	89 42 25	.07	15	2	N	N	.05
P100400	37 43 42	89 42 25	10	5	3	N	N	.05
P100410	37 43 42	89 42 25	.07	10	.5	N	N	.15
P100420	37 43 42	89 42 25	.15	15	2	N	N	.5
P100430	37 43 42	89 42 25	3	15	5	N	N	.5
P100440	37 43 42	89 42 25	<.05	10	1.5	N	N	.5
P100450	37 43 42	89 42 25	<.05	7	2	.2	N	.3
P100460	37 43 42	89 42 25	<.05	7	3	N	N	.5
P100470	37 43 42	89 42 25	.07	5	2	<.2	N	.3
P100480	37 43 42	89 42 25	2	5	2	.2	N	.5
P100490	37 43 42	89 42 25	5	5	5	.2	N	.3
P100500	37 43 42	89 42 25	1.5	2	2	<.2	N	.2
P100510	37 43 42	89 42 25	1	3	1.5	.2	N	.5
P100520	37 43 42	89 42 25	10	1	.7	N	N	.1
P100530	37 43 42	89 42 25	7	2	1.5	<.2	N	.3
P100540	37 43 42	89 42 25	20	.7	1	N	N	.07
P100550	37 43 42	89 42 25	15	.7	.7	N	N	.07
P100560	37 43 42	89 42 25	20	1	1	N	N	.07
P100570	37 43 42	89 42 25	.7	10	3	.2	N	.5
P100580	37 43 42	89 42 25	.7	3	2	N	N	.15
P100590	37 43 42	89 42 25	.5	3	3	N	N	.5
P100600	37 43 42	89 42 25	.7	3	5	.2	N	.3
P100610	37 43 42	89 42 25	1	2	3	N	N	.3
P100620	37 43 42	89 42 25	3	3	2	N	N	.5

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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
P100030	1	N	N	70	300	1	N	N	10	20	500
P100040	N	N	N	100	200	2	N	N	N	50	30
P100050	<.5	N	N	30	70	N	N	N	N	N	200
P100060	<.5	N	N	20	50	N	N	N	N	N	5
P100070	N	N	N	10	<20	N	N	N	N	N	5
P100080	N	N	N	30	30	N	N	N	N	N	7
P100090	N	N	N	20	70	N	N	N	N	<10	10
P100100	N	N	N	20	70	N	N	N	N	<10	<5
P100110	N	N	N	10	20	N	N	N	N	N	N
P100120	N	N	N	15	<20	N	N	N	N	N	50
P100130	N	N	N	20	30	N	N	N	N	N	N
P100140	N	N	N	20	20	N	N	N	N	N	N
P100150	N	N	N	30	100	N	N	N	N	<10	10
P100160	N	N	N	150	700	1	N	N	<10	50	20
P100170	N	N	N	100	200	<1	N	N	<10	20	15
P100180	N	N	N	50	150	N	N	N	N	10	30
P100190	N	N	N	50	100	N	N	N	<10	15	20
P100200	N	N	N	20	100	N	N	N	N	20	150
P100210	N	N	N	100	300	<1	N	N	<10	30	20
P100220	N	N	N	50	150	N	N	N	N	15	30
P100230	N	N	N	150	500	<1	N	N	N	50	15
P100240	N	N	N	70	300	N	N	N	N	20	10
P100250	N	N	N	20	20	N	N	N	N	N	N
P100260	N	N	N	15	N	N	N	N	N	N	100
P100270	N	N	N	15	20	N	N	N	N	N	N
P100280	N	N	N	10	<20	N	N	N	N	N	7
P100290	N	N	N	10	50	N	N	N	N	N	5
P100300	N	N	N	30	200	N	N	N	N	10	30
P100310	N	N	N	70	300	<1	N	N	<10	20	30
P100320	N	N	N	50	150	N	N	N	N	10	5
P100330	N	N	N	100	300	<1	N	N	<10	30	20
P100340	N	N	N	70	200	N	N	N	N	15	15
P100350	N	N	N	100	200	<1	N	N	<10	30	10
P100360	N	N	N	150	>5,000	<1	N	N	10	70	50
P100370	N	N	N	200	>5,000	1	N	N	10	100	50
P100380	N	N	N	150	5,000	1	N	N	10	70	50
P100390	N	N	N	150	5,000	<1	N	N	15	150	70
P100400	.5	N	N	100	300	1.5	N	500	N	30	50
P100410	.5	N	N	70	100	N	N	50	N	10	30
P100420	1	N	N	150	200	<1	N	30	10	50	2,000
P100430	1	N	N	70	200	1	N	N	10	30	700
P100440	<.5	N	N	100	150	1	N	<20	<10	70	100
P100450	N	N	N	70	100	<1	N	N	<10	50	50
P100460	N	N	N	100	150	<1	N	20	10	100	30
P100470	N	N	N	100	100	<1	N	N	<10	30	30
P100480	N	N	N	50	1,500	<1	N	N	10	70	20
P100490	N	N	N	50	1,000	<1	N	N	15	50	30
P100500	N	N	N	70	3,000	<1	N	N	<10	30	20
P100510	N	N	N	70	5,000	<1	N	N	10	50	70
P100520	N	N	N	20	5,000	N	N	N	N	15	10
P100530	N	N	N	100	1,500	1	N	N	<10	20	15
P100540	N	N	N	15	2,000	N	N	N	N	10	30
P100550	N	N	N	50	2,000	N	N	N	N	<10	5
P100560	N	N	N	30	3,000	N	N	N	N	10	7
P100570	N	N	N	150	2,000	<1	N	N	15	70	100
P100580	N	N	N	100	5,000	<1	N	N	<10	20	50
P100590	N	N	N	100	1,000	<1	N	N	<10	30	20
P100600	N	N	N	70	2,000	<1	N	N	N	50	20
P100610	N	N	N	50	3,000	N	N	N	N	20	70
P100620	N	N	N	100	>5,000	<1	N	N	<10	30	70

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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
P100030	10	N	N	5,000	N	N	20	300	700	N
P100040	50	N	<50	150	N	<20	15	15	N	5
P100050	<5	N	N	<10	N	N	5	30	300	N
P100060	7	N	N	10	N	N	5	N	N	N
P100070	N	N	N	N	N	N	N	N	N	N
P100080	N	N	N	N	N	N	<5	N	N	N
P100090	N	N	N	<10	N	N	<5	<10	N	N
P100100	N	N	N	N	N	N	<5	N	N	N
P100110	N	N	N	N	N	N	N	N	N	N
P100120	N	N	N	N	N	N	N	N	N	N
P100130	N	N	N	N	N	N	N	N	N	N
P100140	N	N	N	N	N	N	N	N	N	N
P100150	<5	N	N	50	N	N	<5	<10	N	N
P100160	50	N	<50	500	N	<20	15	15	N	<5
P100170	7	N	N	500	N	<20	15	10	N	<5
P100180	<5	N	N	15	N	N	7	N	N	N
P100190	<5	N	N	500	N	N	10	<10	N	N
P100200	10	N	N	70	N	N	10	20	200	N
P100210	15	N	N	100	N	<20	15	<10	N	<5
P100220	5	N	N	50	N	N	7	N	N	N
P100230	30	N	N	70	N	<20	20	<10	N	<5
P100240	20	N	N	100	N	<20	10	<10	N	N
P100250	N	N	N	N	N	N	N	N	N	N
P100260	N	N	N	N	N	N	N	N	N	N
P100270	N	N	N	N	N	N	N	N	N	N
P100280	N	N	N	N	N	N	N	N	N	N
P100290	N	N	N	10	N	N	N	N	N	N
P100300	5	N	N	70	N	<20	10	<10	N	N
P100310	15	N	N	700	N	<20	10	<10	N	N
P100320	7	N	N	50	N	N	7	10	N	N
P100330	20	N	N	200	<5	<20	20	15	N	<5
P100340	10	N	N	150	N	<20	15	<10	N	N
P100350	50	N	N	50	N	N	50	<10	N	<5
P100360	50	N	N	150	<5	<20	20	15	N	<5
P100370	50	N	N	100	10	<20	20	15	N	<5
P100380	50	N	N	150	10	<20	20	30	N	<5
P100390	70	N	N	200	5	<20	30	20	N	<5
P100400	50	N	N	100	15	N	20	70	N	<5
P100410	20	N	N	100	20	<20	20	150	N	N
P100420	70	N	N	200	20	<20	50	100	N	<5
P100430	30	N	N	150	30	<20	50	70	N	N
P100440	50	N	N	200	10	N	30	15	N	N
P100450	30	N	N	200	<5	N	20	15	N	N
P100460	70	N	N	200	N	N	30	20	N	<5
P100470	50	N	N	300	N	N	20	15	N	N
P100480	20	N	N	70	7	N	20	20	N	<5
P100490	20	N	N	50	7	N	30	20	N	<5
P100500	20	N	N	50	<5	N	15	20	N	<5
P100510	15	N	N	50	5	N	20	15	N	<5
P100520	<5	N	N	10	5	N	10	<10	N	N
P100530	10	N	N	30	10	N	20	<10	N	N
P100540	<5	N	N	<10	N	N	5	N	N	N
P100550	<5	N	N	15	N	N	7	N	N	N
P100560	5	N	N	15	N	N	15	<10	N	N
P100570	50	N	N	200	7	<20	30	30	N	<5
P100580	20	N	N	150	7	N	20	30	N	<5
P100590	20	N	N	100	10	N	20	50	N	<5
P100600	20	N	N	70	15	N	15	20	N	<5
P100610	15	N	N	30	<5	N	15	15	N	<5
P100620	15	N	N	50	N	<20	20	20	N	<5

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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 #
P100030	>1,000	1,000	N	70	N	N	500	100	.08	25
P100040	>1,000	200	N	70	N	<10	N	100	.08	25
P100050	>1,000	N	N	15	N	N	N	30	.05	26
P100060	15	N	N	15	N	N	N	50	.04	26
P100070	30	N	N	N	N	N	N	N	.01	26
P100080	300	N	N	10	N	N	500	30	.1	26
P100090	N	N	N	15	N	N	N	15	.04	26
P100100	N	N	N	15	N	N	N	15	.04	26
P100110	N	N	N	N	N	N	N	N	.02	26
P100120	N	N	N	N	N	N	N	N	.02	26
P100130	<10	N	N	N	N	N	N	<10	.02	26
P100140	N	N	N	N	N	N	N	<10	.01	26
P100150	<10	N	N	20	N	N	N	15	.5	26
P100160	30	<100	N	100	N	N	N	100	3.18	26
P100170	N	<100	N	70	N	N	<200	100	.32	26
P100180	50	N	N	30	N	N	N	50	.1	26
P100190	20	N	N	50	N	N	N	50	.07	26
P100200	>1,000	N	N	50	N	N	N	50	.21	26
P100210	150	<100	N	70	N	N	N	70	.24	26
P100220	500	N	N	30	N	N	N	50	.42	26
P100230	N	N	N	100	N	N	N	100	.33	26
P100240	50	N	N	70	N	N	N	70	.93	26
P100250	N	N	N	N	N	N	N	N	.01	26
P100260	N	N	N	N	N	N	N	N	.06	26
P100270	N	N	N	N	N	N	N	N	.03	26
P100280	N	N	N	N	N	N	N	N	.02	26
P100290	N	N	N	10	N	N	N	10	.05	26
P100300	N	N	N	20	N	N	N	50	.06	26
P100310	N	N	N	70	N	N	N	70	.17	26
P100320	N	N	N	50	N	N	N	70	.39	26
P100330	N	N	N	100	N	N	N	50	.15	26
P100340	N	N	N	50	N	N	N	50	.15	26
P100350	N	N	N	70	N	N	N	30	.36	26
P100360	N	<100	N	100	N	N	N	100	.29	26
P100370	N	150	N	100	N	N	N	100	.29	26
P100380	N	200	N	100	N	N	1,500	70	.25	30
P100390	<10	150	N	100	N	N	1,000	70	.27	30
P100400	N	<100	N	70	N	N	>10,000	50	.13	30
P100410	N	300	N	20	N	N	>10,000	200	.17	30
P100420	N	<100	N	70	N	N	>10,000	70	.35	30
P100430	N	N	N	100	N	N	5,000	70	.18	30
P100440	50	<100	N	70	N	N	5,000	70	--	30
P100450	N	150	N	70	N	N	500	30	.26	30
P100460	N	<100	N	100	N	N	3,000	50	.32	30
P100470	70	200	N	100	N	N	N	50	.31	30
P100480	N	>5,000	N	100	N	N	<200	70	2.14	30
P100490	N	>5,000	N	70	N	N	N	70	3.38	30
P100500	N	>5,000	N	70	N	N	N	30	1.06	30
P100510	N	>5,000	N	100	N	N	200	50	.84	30
P100520	N	>5,000	N	50	N	N	700	20	.22	30
P100530	N	>5,000	N	100	N	N	N	70	.34	30
P100540	N	>5,000	N	20	N	N	N	20	.82	30
P100550	N	>5,000	N	30	N	N	N	30	.66	30
P100560	N	>5,000	N	30	N	N	N	30	.62	30
P100570	N	>5,000	N	150	N	N	N	150	.78	30
P100580	N	>5,000	N	50	N	N	1,000	100	.36	30
P100590	N	>5,000	N	100	N	N	1,000	150	.74	30
P100600	N	5,000	N	50	N	N	200	100	.94	30
P100610	N	3,000	N	30	N	N	1,000	100	1.24	30
P100620	N	3,000	N	50	N	N	1,500	300	2.5	30

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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
P100630	37 43 42	89 42 25	.5	1.5	1.5	<.2	N	.5
P100640	37 43 42	89 42 25	.3	1.5	1.5	<.2	N	.3
P100650	37 43 42	89 42 25	.15	1.5	1.5	<.2	N	.5
P100660	37 43 42	89 42 25	.15	1	1	N	N	.15
P100670	37 43 42	89 42 25	N	.5	.3	N	N	.07
P100680	37 43 42	89 42 25	<.05	.7	.7	N	N	.15
P100690	37 43 42	89 42 25	.2	2	2	<.2	N	.3
P100700	37 43 42	89 42 25	.1	1.5	1	N	N	.2
P100710	37 43 42	89 42 25	N	<.05	N	N	N	.002
P100720	37 43 42	89 42 25	N	.1	.03	N	N	.015
P100730	37 43 42	89 42 25	.3	.7	1	N	N	.05
P100740	37 43 42	89 42 25	N	.05	<.02	N	N	.003
P100750	37 43 42	89 42 25	N	<.05	N	N	N	N
P100755	37 43 42	89 42 25	N	<.05	<.02	N	N	<.002

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
P100630	N	N	N	70	5,000	N	N	N	<10	15	15
P100640	N	N	N	70	3,000	N	N	N	<10	20	20
P100650	N	N	N	50	500	N	N	N	<10	30	15
P100660	N	N	N	30	1,000	N	N	N	N	10	20
P100670	N	N	N	15	300	N	N	N	N	N	10
P100680	N	N	N	30	500	N	N	N	N	10	10
P100690	N	N	N	70	500	<1	N	N	<10	20	20
P100700	N	N	N	50	300	N	N	N	<10	15	15
P100710	N	N	N	N	N	N	N	N	N	N	<5
P100720	N	N	N	<10	20	N	N	N	N	N	N
P100730	N	N	N	20	70	N	N	N	N	N	20
P100740	N	N	N	N	N	N	N	N	N	N	<5
P100750	N	N	N	N	N	N	N	N	N	N	N
P100755	N	N	N	N	N	N	N	N	N	N	N

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P10, 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
P100630	10	N	N	20	N	<20	15	10	N	N
P100640	15	N	N	20	N	N	15	10	N	N
P100650	20	N	N	15	7	N	15	15	N	N
P100660	<5	N	N	10	<5	N	10	N	N	N
P100670	N	N	N	N	N	N	7	N	N	N
P100680	<5	N	N	10	N	N	10	N	N	N
P100690	15	N	N	15	N	N	20	500	N	N
P100700	10	N	N	10	N	N	15	200	N	N
P100710	N	N	N	N	N	N	N	N	N	N
P100720	N	N	N	N	N	N	N	N	N	N
P100730	<5	N	N	<10	20	N	7	<10	N	N
P100740	N	N	N	N	N	N	N	N	N	N
P100750	N	N	N	N	N	N	<5	N	N	N
P100755	N	N	N	N	N	N	N	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 #
P100630	N	500	N	70	N	N	N	200	.74	30
P100640	N	300	N	70	N	N	N	100	.34	30
P100650	N	<100	N	70	N	N	N	150	.22	30
P100660	N	200	N	50	N	N	N	150	.16	30
P100670	N	<100	N	20	N	N	N	50	.07	30
P100680	N	1,000	N	30	N	N	N	70	.09	30
P100690	N	100	N	70	N	N	N	100	.16	30
P100700	N	<100	N	50	N	N	N	70	.11	30
P100710	N	N	N	N	N	N	N	20	.01	30
P100720	N	N	N	10	N	N	N	30	.01	30
P100730	N	N	N	20	N	N	N	70	.05	30
P100740	N	N	N	N	N	N	N	20	<.01	30
P100750	N	N	N	N	N	N	N	<10	<.01	30
P100755	N	N	N	N	N	N	N	10	<.01	30

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P11, 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
P110010	37 38 52	89 58 46	.1	1	.2	N	N	.05	N	N	N	20
P110020	37 38 52	89 58 46	.15	2	.3	N	N	.03	N	N	N	20
P110030	37 38 52	89 58 46	.15	.15	.2	N	N	.03	N	N	N	30
P110040	37 38 52	89 58 46	.2	.7	.3	N	N	.015	N	N	N	30
P110050	37 38 52	89 58 46	.07	.5	.1	N	N	.015	N	N	N	50
P110060	37 38 52	89 58 46	.2	.07	.2	N	N	.007	N	N	N	20
P110070	37 38 52	89 58 46	.1	.3	.15	N	N	.03	N	N	N	30
P110080	37 38 52	89 58 46	.2	.5	1	N	N	.07	N	N	N	30
P110090	37 38 52	89 58 46	.3	.5	1.5	<.2	N	.05	N	N	N	50
P110100	37 38 52	89 58 46	2	.3	2	N	N	.05	N	N	N	20
P110110	37 38 52	89 58 46	.15	3	.5	N	N	.1	.5	N	N	50
P110120	37 38 52	89 58 46	.2	.5	.3	N	N	.03	N	N	N	15
P110130	37 38 52	89 58 46	.1	.7	.2	N	N	.02	N	N	N	<10
P110140	37 38 52	89 58 46	.7	2	1	N	N	.07	N	N	N	70
P110150	37 38 52	89 58 46	.2	1.5	.7	N	N	.07	N	N	N	50
P110160	37 38 52	89 58 46	10	.7	5	<.2	N	.05	N	N	N	30
P110170	37 38 52	89 58 46	1.5	1	1.5	N	N	.05	N	N	N	30
P110180	37 38 52	89 58 46	.7	1.5	1	<.2	N	.1	<.5	N	N	70
P110190	37 38 52	89 58 46	.07	1	.15	N	N	.02	N	N	N	30
P110200	37 38 52	89 58 46	.2	1	.7	<.2	N	.07	N	N	N	50
P110210	37 38 52	89 58 46	.15	1	1	N	N	.15	N	N	N	50
P110220	37 38 52	89 58 46	.5	1.5	1	N	N	.03	N	N	N	30
P110230	37 38 52	89 58 46	.3	2	2	N	N	.2	N	N	N	100
P110240	37 38 52	89 58 46	.3	1	.3	N	N	.05	N	N	N	15
P110250	37 38 52	89 58 46	.3	1	1	N	N	.05	N	N	N	30
P110260	37 38 52	89 58 46	1.5	2	2	N	N	.2	N	N	N	70
P110270	37 38 52	89 58 46	.1	.05	.1	N	N	.01	N	N	N	N
P110280	37 38 52	89 58 46	.7	1	1.5	N	N	.07	N	N	N	20
P110290	37 38 52	89 58 46	.5	.7	.5	N	N	.05	N	N	N	30
P110300	37 38 52	89 58 46	1.5	1.5	2	N	N	.2	N	N	N	50
P110310	37 38 52	89 58 46	2	1	3	<.2	N	.15	N	N	N	20
P110320	37 38 52	89 58 46	.3	1.5	1	<.2	N	.3	N	N	N	30
P110330	37 38 52	89 58 46	.2	.5	.5	N	N	.02	N	N	N	20
P110340	37 38 52	89 58 46	.15	.3	.2	N	N	.03	N	N	N	20
P110350	37 38 52	89 58 46	.1	1	.2	N	N	.05	N	N	N	70
P110360	37 38 52	89 58 46	.2	.5	.5	N	N	.03	N	N	N	30
P110370	37 38 52	89 58 46	3	1.5	5	N	N	.1	<.5	N	N	50
P110380	37 38 52	89 58 46	.07	5	.15	N	N	.02	N	N	N	10
P110390	37 38 52	89 58 46	1	.3	1	N	N	.07	N	N	N	50
P110400	37 38 52	89 58 46	.15	.7	.2	N	N	.03	N	N	N	15
P110410	37 38 52	89 58 46	.1	.5	.3	N	N	.02	N	N	N	15
P110420	37 38 52	89 58 46	.2	7	.7	N	N	.02	N	N	N	30
P110430	37 38 52	89 58 46	.7	.7	2	<.2	N	.07	N	N	N	20
P110440	37 38 52	89 58 46	.05	.7	.5	N	N	.05	N	N	N	30
P110450	37 38 52	89 58 46	.07	1	.3	N	N	.03	N	N	N	20
P110460	37 38 52	89 58 46	.15	1	.7	N	N	.03	N	N	N	70
P110470	37 38 52	89 58 46	.07	1.5	1	N	N	.1	N	N	N	70
P110480	37 38 52	89 58 46	.05	.1	.15	N	N	.01	N	N	N	N
P110490	37 38 52	89 58 46	N	1	.05	N	N	.015	N	N	N	N
P110500	37 38 52	89 58 46	.05	.3	.3	N	N	.03	N	N	N	50
P110510	37 38 52	89 58 46	.1	.07	.2	N	N	.007	N	N	N	30
P110520	37 38 52	89 58 46	1	.5	2	N	N	.05	N	N	N	50
P110530	37 38 52	89 58 46	N	<.05	.03	N	N	.003	N	N	N	10
P110540	37 38 52	89 58 46	N	.05	.03	N	N	.005	N	N	N	N
P110550	37 38 52	89 58 46	2	1.5	5	N	N	.15	N	N	N	100
P110560	37 38 52	89 58 46	.1	.3	.2	N	N	.01	N	N	N	50
P110570	37 38 52	89 58 46	<.05	.2	.7	N	N	.1	N	N	N	70
P110580	37 38 52	89 58 46	<.05	1	.3	N	N	.03	N	N	N	20
P110585	37 38 52	89 58 46	N	.07	.02	N	N	.003	N	N	N	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P11, 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
P110010	150	N	N	N	<10	10	15	N	N	N	70	N	N
P110020	70	N	N	N	N	<10	20	N	N	N	<10	N	N
P110030	70	N	N	N	N	N	N	N	N	N	N	N	N
P110040	100	N	N	N	N	N	20	N	N	N	30	N	N
P110050	50	N	N	N	N	N	<5	N	N	N	N	N	N
P110060	70	N	N	N	N	N	<5	N	N	N	<10	N	N
P110070	100	N	N	N	N	N	<5	N	N	N	N	N	N
P110080	500	N	N	N	N	<10	5	10	N	N	N	N	N
P110090	100	N	N	N	N	10	5	7	N	N	N	N	N
P110100	70	N	N	N	N	N	5	<5	N	N	<10	N	N
P110110	300	N	N	N	15	15	30	10	N	N	N	N	N
P110120	200	N	N	N	N	<10	<5	N	N	N	N	N	N
P110130	100	N	N	N	N	N	5	N	N	N	N	N	N
P110140	200	N	N	N	<10	<10	30	10	N	N	10	N	N
P110150	300	N	N	N	<10	10	10	7	N	N	N	N	N
P110160	100	N	N	N	N	<10	<5	<5	N	N	15	N	N
P110170	150	N	N	N	<10	<10	7	5	N	N	<10	N	N
P110180	300	N	N	N	10	15	15	15	N	N	<10	N	N
P110190	70	N	N	N	N	N	<5	N	N	N	N	N	N
P110200	500	N	N	N	N	<10	5	7	N	N	N	N	N
P110210	500	N	N	N	N	15	<5	7	N	N	N	N	N
P110220	300	N	N	N	N	N	70	<5	N	N	<10	N	N
P110230	300	<1	N	N	15	30	30	20	N	N	15	5	N
P110240	500	N	N	N	N	N	5	N	N	N	N	N	N
P110250	300	N	N	N	N	<10	5	<5	N	N	N	N	N
P110260	300	N	N	N	<10	15	15	20	N	N	10	7	N
P110270	100	N	N	N	N	N	N	N	N	N	N	N	N
P110280	150	N	N	N	N	10	5	10	N	N	<10	5	N
P110290	500	N	N	N	N	N	7	<5	N	N	N	N	N
P110300	300	N	N	N	<10	15	30	10	N	N	<10	30	N
P110310	500	N	N	N	N	<10	<5	15	N	N	10	N	N
P110320	1,000	N	N	N	N	10	10	10	N	N	N	N	N
P110330	100	N	N	N	N	N	10	N	N	N	N	N	N
P110340	100	N	N	N	N	N	N	N	N	N	N	N	N
P110350	300	N	N	N	N	N	<5	N	N	N	N	N	N
P110360	200	N	N	N	N	N	10	N	N	N	N	N	N
P110370	150	N	N	N	10	10	5	15	N	N	<10	N	N
P110380	150	N	N	N	N	N	20	N	N	N	15	N	N
P110390	200	N	N	N	N	10	7	<5	N	N	N	N	N
P110400	70	N	N	N	N	N	<5	N	N	N	30	N	N
P110410	150	N	N	N	N	N	5	N	N	N	N	N	N
P110420	70	N	N	N	N	N	7	N	N	N	N	N	N
P110430	200	N	N	N	N	<10	5	7	N	N	N	N	N
P110440	70	N	N	N	N	<10	<5	N	N	N	N	N	N
P110450	70	N	N	N	N	N	<5	N	N	N	N	N	N
P110460	100	N	N	N	N	<10	7	<5	N	N	N	N	N
P110470	150	N	N	N	N	15	7	5	N	N	N	N	N
P110480	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P110490	<20	N	N	N	N	N	7	N	N	N	N	N	N
P110500	30	N	N	N	N	N	5	N	N	N	N	N	N
P110510	50	N	N	N	N	N	N	N	N	N	N	N	N
P110520	70	N	N	N	N	<10	10	<5	N	N	N	N	N
P110530	<20	N	N	N	N	N	N	N	N	N	N	N	N
P110540	N	N	N	N	N	N	N	N	N	N	N	N	N
P110550	200	N	N	N	N	30	20	10	N	N	<10	<5	N
P110560	100	N	N	N	N	N	<5	N	N	N	N	N	N
P110570	70	N	N	N	N	10	N	N	N	N	N	N	N
P110580	<20	N	N	N	N	N	7	N	N	N	N	N	N
P110585	N	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P11, 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 #
P110010	10	N	N	N	N	<100	N	50	N	N	N	30	.01	52
P110020	15	<10	N	N	N	<100	N	30	N	N	N	20	.01	52
P110030	N	N	N	N	N	N	N	20	<20	N	N	30	<.01	52
P110040	<5	N	N	N	N	N	N	10	N	N	N	<10	<.01	52
P110050	<5	N	N	N	N	N	N	15	N	N	N	<10	<.01	52
P110060	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P110070	<5	N	N	N	N	N	N	15	N	N	N	70	.01	52
P110080	5	N	N	N	N	<100	N	30	N	N	N	100	.05	52
P110090	5	N	N	N	N	N	N	30	N	N	N	30	.05	52
P110100	5	N	N	N	N	N	N	20	N	N	N	15	.04	52
P110110	30	<10	N	N	N	N	N	30	N	N	N	100	.04	52
P110120	10	N	N	N	N	N	N	20	N	N	N	30	.02	52
P110130	5	N	N	N	N	N	N	10	N	N	N	70	.01	52
P110140	20	N	N	N	N	<100	N	30	N	N	N	70	.03	52
P110150	15	N	N	N	N	N	N	30	N	N	N	100	.03	52
P110160	<5	N	N	N	N	N	N	20	N	N	N	30	.03	52
P110170	10	N	N	N	N	N	N	20	N	N	N	20	.03	53
P110180	30	10,000	N	N	N	N	N	50	N	N	N	70	.04	53
P110190	<5	N	N	N	N	N	N	15	N	N	N	<10	.03	53
P110200	7	<10	N	N	N	N	N	20	N	N	N	100	.03	53
P110210	20	N	N	N	N	N	N	20	N	N	N	100	.04	53
P110220	15	N	N	N	N	N	N	15	N	N	N	50	.03	53
P110230	30	15	N	N	N	N	N	100	N	N	N	70	.09	53
P110240	10	N	N	N	N	N	N	15	N	N	N	30	.03	53
P110250	7	N	N	N	N	N	N	20	N	N	N	50	.04	53
P110260	20	<10	N	N	N	N	N	30	N	N	N	70	.06	53
P110270	N	N	N	N	N	N	N	N	N	N	N	70	<.01	53
P110280	15	10	N	N	N	N	N	30	N	N	N	50	.04	53
P110290	5	N	N	N	N	N	N	15	N	N	N	70	.02	53
P110300	20	15	N	N	N	<100	N	30	N	N	N	70	.05	53
P110310	15	<10	N	N	N	<100	N	20	N	N	N	100	.04	53
P110320	15	<10	N	N	N	<100	N	20	N	N	N	200	.03	53
P110330	5	N	N	N	N	N	N	10	N	N	N	15	.01	53
P110340	<5	N	N	N	N	N	N	15	<20	N	N	30	.02	53
P110350	<5	N	N	N	N	<100	N	10	N	N	N	50	.02	53
P110360	<5	N	N	N	N	N	N	15	N	N	N	30	.02	53
P110370	20	<10	N	N	N	<100	N	30	N	N	N	50	.05	53
P110380	7	20	N	N	N	N	N	10	N	N	N	20	.01	53
P110390	<5	N	N	N	N	N	N	20	N	N	N	50	.02	53
P110400	5	N	N	N	N	N	N	15	N	N	N	10	<.01	53
P110410	<5	N	N	N	N	N	N	15	N	N	N	70	<.01	53
P110420	15	N	N	N	N	N	N	20	N	N	N	<10	<.01	53
P110430	5	N	N	N	N	<100	N	30	N	N	N	70	.02	53
P110440	5	N	N	N	N	N	N	20	N	N	N	10	.02	54
P110450	7	N	N	N	N	<100	N	20	N	N	N	15	.01	54
P110460	10	N	N	N	N	<100	N	30	N	N	N	20	.02	54
P110470	20	N	N	N	N	100	N	50	N	N	N	50	.04	54
P110480	<5	N	N	N	N	N	N	N	N	N	N	20	.01	54
P110490	5	N	N	N	N	N	N	N	N	N	N	10	<.01	54
P110500	7	N	N	N	N	N	N	30	N	N	N	<10	.02	54
P110510	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P110520	10	N	N	N	N	N	N	70	N	N	N	30	.03	54
P110530	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P110540	<5	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P110550	15	<10	N	N	N	N	N	100	N	N	N	50	.05	54
P110560	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P110570	5	N	N	N	N	<100	N	100	N	N	N	70	.04	54
P110580	<5	N	N	N	N	<100	N	20	N	N	N	10	.02	54
P110585	N	N	N	N	N	N	N	N	N	N	N	15	<.01	54

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P12, 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
P120110	37 50 7	89 52 56	.2	2	.2	N	N	.07
P120120	37 50 7	89 52 56	.07	3	1.5	<.2	N	.15
P120130	37 50 7	89 52 56	.07	5	2	<.2	N	.2
P120140	37 50 7	89 52 56	.1	2	1	.2	N	.15
P120150	37 50 7	89 52 56	.07	3	1	.3	N	.2
P120160	37 50 7	89 52 56	.07	3	1	.3	N	.2
P120170	37 50 7	89 52 56	.3	2	.3	N	N	.07
P120180	37 50 7	89 52 56	.07	3	.7	<.2	N	.2
P120190	37 50 7	89 52 56	.15	5	2	.2	N	.3
P120200	37 50 7	89 52 56	.07	2	.7	<.2	N	.1
P120210	37 50 7	89 52 56	.1	1.5	.3	N	N	.05
P120220	37 50 7	89 52 56	.05	.7	.2	N	N	.05
P120230	37 50 7	89 52 56	.05	1	.2	N	N	.03
P120240	37 50 7	89 52 56	.1	.2	.05	N	N	.01
P120250	37 50 7	89 52 56	.1	.7	.2	N	N	.05
P120260	37 50 7	89 52 56	.15	.5	.15	N	N	.03
P120270	37 50 7	89 52 56	.1	1.5	.2	N	N	.05
P120280	37 50 7	89 52 56	<.05	1	.15	N	N	.03
P120290	37 50 7	89 52 56	.1	1	.2	N	N	.05
P120300	37 50 7	89 52 56	.1	.3	.07	N	N	.015
P120310	37 50 7	89 52 56	.1	.15	.03	N	N	.015
P120320	37 50 7	89 52 56	.15	.5	.15	N	N	.05
P120330	37 50 7	89 52 56	.3	1	.05	N	N	.015
P120340	37 50 7	89 52 56	1.5	.7	.5	N	N	.07
P120350	37 50 7	89 52 56	1	5	.7	<.2	N	.05
P120360	37 50 7	89 52 56	.2	1.5	.1	N	N	.02
P120370	37 50 7	89 52 56	.5	1	.05	N	N	.02
P120380	37 50 7	89 52 56	1	2	.3	N	N	.03
P120390	37 50 7	89 52 56	.7	1.5	.3	N	N	.15
P120400	37 50 7	89 52 56	.3	1.5	.2	N	N	.05
P120410	37 50 7	89 52 56	.5	1	.15	N	N	.05
P120420	37 50 7	89 52 56	1	.3	.1	N	N	.05
P120430	37 50 7	89 52 56	.3	1	.5	N	N	.2
P120440	37 50 7	89 52 56	.2	2	.2	N	N	.1
P120450	37 50 7	89 52 56	.2	2	1	.3	N	.3
P120460	37 50 7	89 52 56	.3	10	.07	N	N	.05
P120465	37 50 7	89 52 56	20	.07	.2	N	N	<.002
P120470	37 50 7	89 52 56	1	10	.05	N	N	.02
P120480	37 50 7	89 52 56	.7	10	.5	N	N	.2
P120490	37 50 7	89 52 56	.3	1.5	.1	N	N	.05
P120500	37 50 7	89 52 56	.3	15	.15	N	N	.05
P120510	37 50 7	89 52 56	.5	20	.15	N	N	.03
P120520	37 50 7	89 52 56	.5	10	.2	N	N	.03
P120530	37 50 7	89 52 56	.3	5	.07	N	N	.007
P120540	37 50 7	89 52 56	.3	10	.05	N	N	.005
P120560	37 50 7	89 52 56	.3	>20	.1	N	N	.02
P120570	37 50 7	89 52 56	.3	>20	.2	N	N	.05
P120580	37 50 7	89 52 56	.5	>20	.7	N	N	.03
P120590	37 50 7	89 52 56	.5	>20	1.5	N	N	.05
P120600	37 50 7	89 52 56	.7	20	.2	N	N	.07
P120610	37 50 7	89 52 56	.5	15	3	N	N	1
P120620	37 50 7	89 52 56	.5	20	.15	N	N	.02
P120630	37 50 7	89 52 56	.3	20	.2	N	N	.03
P120640	37 50 7	89 52 56	.2	1	.02	N	N	<.002
P120650	37 50 7	89 52 56	.7	.7	.2	N	N	.002
P120660	37 50 7	89 52 56	.15	2	3	N	N	1
P120670	37 50 7	89 52 56	.3	1	.7	N	N	.3
P120680	37 50 7	89 52 56	.5	.15	.7	N	N	.02
P120690	37 50 7	89 52 56	1	.3	1	N	N	.01
P120700	37 50 7	89 52 56	.15	1	.1	N	N	<.002

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P12, 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
P120110	N	N	N	15	100	N	N	N	N	<10	10
P120120	N	N	N	70	100	<1	N	N	<10	50	5
P120130	N	N	N	100	150	1	N	N	10	70	5
P120140	N	N	N	50	100	<1	N	N	10	30	15
P120150	N	N	N	70	150	<1	N	N	15	70	10
P120160	N	N	N	50	150	<1	N	N	20	50	10
P120170	N	N	N	30	70	N	N	N	<10	15	15
P120180	N	N	N	50	100	<1	N	N	<10	150	20
P120190	N	N	N	100	150	1	N	N	15	150	20
P120200	N	N	N	70	200	<1	N	N	10	20	<5
P120210	N	N	N	50	1,000	N	N	N	<10	10	15
P120220	N	N	N	30	70	N	N	N	N	N	50
P120230	N	N	N	30	70	N	N	N	N	<10	10
P120240	N	N	N	15	30	N	N	N	N	N	<5
P120250	N	N	N	30	50	N	N	N	N	<10	7
P120260	N	N	N	20	500	N	N	N	N	N	7
P120270	N	N	N	20	1,500	N	N	N	10	<10	50
P120280	N	N	N	30	500	N	N	N	N	<10	5
P120290	N	N	N	50	1,000	N	N	N	N	10	7
P120300	N	N	N	15	300	N	N	N	N	N	<5
P120310	N	N	N	15	100	N	N	N	N	N	N
P120320	N	N	N	30	5,000	N	N	N	N	10	<5
P120330	<.5	N	N	20	2,000	N	N	N	N	N	10
P120340	<.5	N	N	30	700	N	N	N	N	<10	50
P120350	.5	N	N	30	3,000	N	N	N	<10	30	150
P120360	1.5	N	N	30	>5,000	N	N	N	<10	<10	50
P120370	2	N	N	20	5,000	N	N	N	N	<10	30
P120380	2	N	N	50	>5,000	<1	N	N	30	10	100
P120390	1.5	N	N	70	>5,000	N	N	N	15	50	70
P120400	2	N	N	50	>5,000	N	N	70	20	15	150
P120410	1.5	N	N	20	5,000	N	N	N	N	20	50
P120420	.5	N	N	20	5,000	N	N	N	N	10	5
P120430	.5	N	N	100	5,000	<1	N	N	15	70	15
P120440	2	N	N	50	>5,000	N	N	100	15	15	30
P120450	1	N	N	100	>5,000	1	N	N	15	200	30
P120460	5	N	N	10	>5,000	N	N	20	15	30	100
P120465	N	N	N	N	200	N	N	N	N	N	<5
P120470	7	N	N	15	5,000	N	N	<20	20	<10	100
P120480	3	N	N	50	>5,000	<1	N	20	10	100	70
P120490	3	N	N	20	5,000	N	N	150	N	15	20
P120500	2	N	N	30	5,000	N	N	30	10	20	30
P120510	2	N	N	20	5,000	N	N	70	20	20	70
P120520	5	N	N	50	>5,000	N	N	N	N	10	50
P120530	3	N	N	20	1,000	N	N	N	N	N	20
P120540	3	N	N	15	5,000	N	N	N	N	<10	30
P120560	10	N	N	N	3,000	N	N	300	20	30	150
P120570	7	N	N	N	>5,000	N	N	100	20	100	100
P120580	1	N	N	N	70	N	N	20	20	100	300
P120590	.7	N	N	10	100	N	N	<20	15	50	70
P120600	.5	N	N	30	>5,000	N	N	150	30	50	30
P120610	1	N	N	200	>5,000	2	N	N	50	1,000	100
P120620	<.5	N	N	N	5,000	N	N	<20	N	<10	20
P120630	1	N	N	10	>5,000	N	N	20	15	20	50
P120640	N	N	N	N	5,000	N	N	N	N	N	7
P120650	N	N	N	N	2,000	N	N	N	<10	N	5
P120660	<.5	N	N	150	3,000	1.5	N	30	50	500	50
P120670	<.5	N	N	100	100	<1	N	20	N	50	7
P120680	N	N	N	30	150	N	N	<20	N	N	5
P120690	N	N	N	50	1,000	N	N	N	N	<10	10
P120700	N	N	N	30	70	N	N	N	N	N	5

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P12, 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
P120110	N	N	N	50	<5	N	15	N	N	N
P120120	20	N	<50	15	N	N	20	<10	N	<5
P120130	50	N	<50	30	N	N	30	<10	N	5
P120140	20	N	N	15	N	N	20	<10	N	<5
P120150	30	N	N	20	N	N	30	<10	N	5
P120160	30	N	N	15	N	N	30	<10	N	<5
P120170	7	N	N	50	<5	N	20	<10	N	N
P120180	20	N	N	20	<5	N	20	<10	N	<5
P120190	70	N	<50	15	N	N	50	<10	N	7
P120200	20	N	N	20	N	N	30	N	N	<5
P120210	<5	N	N	<10	N	N	20	N	N	N
P120220	N	N	N	N	N	N	30	N	N	N
P120230	N	N	N	<10	N	N	30	N	N	N
P120240	N	N	N	N	N	N	50	N	N	N
P120250	N	N	N	N	N	N	10	N	N	N
P120260	N	N	N	N	N	N	15	N	N	N
P120270	<5	N	N	10	N	N	500	N	N	N
P120280	<5	N	N	N	N	N	30	N	N	N
P120290	5	N	N	<10	N	N	20	N	N	N
P120300	N	N	N	N	N	N	5	N	N	N
P120310	N	N	N	N	N	N	5	N	N	N
P120320	N	N	N	N	N	N	15	N	N	N
P120330	N	N	N	<10	N	N	30	N	N	N
P120340	N	N	N	<10	N	N	15	N	N	N
P120350	10	N	N	70	10	N	30	N	N	N
P120360	N	N	N	20	<5	N	30	N	N	N
P120370	N	N	N	15	N	N	15	N	N	N
P120380	<5	N	N	30	<5	N	200	<10	N	N
P120390	<5	N	N	20	N	N	500	10	N	N
P120400	5	N	N	20	<5	N	300	15	N	N
P120410	<5	N	N	N	N	N	150	N	N	N
P120420	N	N	N	N	N	N	30	N	N	N
P120430	10	N	N	10	N	N	1,000	50	N	N
P120440	5	N	N	300	N	N	700	<10	N	N
P120450	50	N	N	10	N	N	500	10	N	N
P120460	10	N	N	10	N	N	50	30	N	N
P120465	N	N	N	20	N	N	N	<10	N	N
P120470	10	N	N	10	N	N	150	30	N	N
P120480	15	N	N	50	5	N	700	200	N	N
P120490	<5	N	N	<10	N	N	20	<10	N	N
P120500	7	N	N	30	N	N	50	N	N	N
P120510	10	N	N	70	N	N	5,000	10	N	N
P120520	5	N	N	50	<5	N	30	N	N	N
P120530	N	N	N	<10	N	N	20	N	N	N
P120540	N	N	N	20	N	N	30	N	N	N
P120560	30	N	N	150	<5	N	200	10	N	N
P120570	50	N	N	500	<5	N	200	10	N	N
P120580	30	N	N	200	<5	N	300	<10	N	N
P120590	50	N	N	500	<5	N	70	<10	N	<5
P120600	15	N	N	30	N	N	>5,000	N	N	N
P120610	20	N	<50	50	N	<20	1,000	10	N	5
P120620	7	N	N	20	N	N	30	N	N	N
P120630	10	N	N	300	5	N	50	<10	N	N
P120640	N	N	N	10	N	N	15	N	N	N
P120650	N	N	N	<10	N	N	700	N	N	N
P120660	20	N	50	10	N	<20	5,000	<10	N	<5
P120670	<5	N	N	<10	N	N	50	N	N	N
P120680	N	N	N	N	N	N	7	N	N	N
P120690	N	N	N	<10	N	N	<5	100	N	N
P120700	N	N	N	N	N	N	5	<10	N	N

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P12, 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 #
P120110	N	N	N	10	N	N	<200	100	.02	6
P120120	N	N	N	50	N	N	N	70	.09	6
P120130	N	N	N	100	N	<10	N	70	.1	6
P120140	N	N	N	50	N	N	N	70	.08	6
P120150	N	N	N	70	N	<10	N	70	.1	6
P120160	N	N	N	70	N	N	N	70	.11	6
P120170	N	N	N	20	N	N	N	50	.04	6
P120180	N	N	N	30	N	N	N	150	.08	6
P120190	N	N	N	100	N	<10	<200	100	.14	6
P120200	N	N	N	50	N	N	N	30	.11	6
P120210	N	N	N	15	N	N	N	100	.04	6
P120220	N	N	N	15	N	N	N	70	.03	6
P120230	N	N	N	20	N	N	N	20	.02	6
P120240	N	N	N	N	N	N	N	N	.01	6
P120250	N	N	N	20	N	N	N	70	.02	6
P120260	N	N	N	15	N	N	N	30	.02	6
P120270	N	N	N	15	N	N	N	50	.02	6
P120280	N	N	N	15	N	N	N	15	.03	6
P120290	N	N	N	20	N	N	<200	100	.04	6
P120300	N	N	N	10	N	N	N	<10	.01	6
P120310	N	N	N	N	N	N	N	<10	<.01	6
P120320	N	N	N	20	N	N	N	20	.02	6
P120330	N	N	N	10	N	N	N	10	.06	6
P120340	N	N	N	30	N	N	N	30	.03	6
P120350	N	N	N	30	N	N	<200	50	.04	6
P120360	N	<100	N	20	N	N	1,500	30	.03	6
P120370	N	N	N	20	N	N	N	50	.02	6
P120380	N	<100	N	50	N	N	N	50	.05	6
P120390	N	300	N	70	N	<10	<200	200	.05	6
P120400	N	300	N	50	N	N	5,000	30	.04	6
P120410	N	N	N	50	N	N	700	30	.03	6
P120420	N	<100	N	30	N	N	N	50	.03	6
P120430	N	<100	N	100	N	N	700	150	.07	6
P120440	N	<100	N	20	N	N	7,000	50	.05	6
P120450	N	100	N	100	N	N	700	150	.1	6
P120460	N	150	N	15	N	N	2,000	70	.06	6
P120465	N	N	N	N	N	N	N	N	<.01	7
P120470	N	N	N	10	N	N	1,000	<10	.04	7
P120480	N	<100	N	100	N	N	2,000	150	.05	7
P120490	N	N	N	20	N	N	10,000	150	.02	7
P120500	N	100	N	20	N	N	5,000	70	.03	7
P120510	N	<100	N	15	N	N	7,000	50	.02	7
P120520	N	<100	N	15	N	N	1,500	<10	.01	7
P120530	N	N	N	10	N	N	200	N	<.01	7
P120540	N	N	N	N	N	N	<200	N	--	7
P120560	N	N	N	20	N	N	>10,000	100	--	7
P120570	N	300	N	70	N	N	10,000	100	--	7
P120580	N	N	N	50	N	N	7,000	50	--	7
P120590	N	N	N	70	N	N	7,000	15	.1	7
P120600	N	100	N	50	N	N	>10,000	150	--	7
P120610	N	<100	N	200	N	30	1,000	1,000	.29	7
P120620	N	N	N	20	N	N	1,500	N	--	7
P120630	N	500	N	70	N	N	5,000	70	.03	7
P120640	N	N	N	N	N	N	500	N	<.01	7
P120650	N	N	N	N	N	N	1,000	100	<.01	7
P120660	N	N	N	150	N	N	7,000	300	.2	7
P120670	N	N	N	200	N	N	5,000	200	.03	7
P120680	N	N	N	20	N	N	7,000	N	.01	7
P120690	N	N	N	20	N	N	500	<10	<.01	7
P120700	N	N	N	N	N	N	2,000	N	<.01	7

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P12, 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
P120710	37 50 7	89 52 56	.3	.2	1	N	N	.02
P120720	37 50 7	89 52 56	2	.3	2	N	N	.015
P120730	37 50 7	89 52 56	.2	1.5	.7	N	N	.03
P120740	37 50 7	89 52 56	1.5	1	3	N	N	.07
P120750	37 50 7	89 52 56	1.5	1.5	1.5	N	N	.2
P120760	37 50 7	89 52 56	1.5	3	3	N	N	.5
P120770	37 50 7	89 52 56	3	3	5	<.2	N	.5
P120780	37 50 7	89 52 56	3	2	3	N	N	.3
P120790	37 50 7	89 52 56	.2	.7	1	N	N	.05
P120800	37 50 7	89 52 56	.15	.5	.2	N	N	.03
P120805	37 50 7	89 52 56	3	1.5	5	N	N	.07

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
P120710	N	N	N	50	150	N	N	N	N	<10	<5
P120720	N	N	N	30	20	N	N	N	N	<10	5
P120730	N	N	N	100	70	N	N	N	N	10	<5
P120740	N	N	N	70	70	N	N	N	N	10	5
P120750	N	N	N	150	200	N	N	N	N	15	7
P120760	N	N	N	100	300	N	N	N	N	20	7
P120770	N	N	N	150	300	<1	N	N	N	30	10
P120780	N	N	N	100	200	<1	N	N	N	20	10
P120790	N	N	N	50	70	N	N	N	N	<10	<5
P120800	N	N	N	100	300	N	N	N	N	N	5
P120805	N	N	N	70	70	N	N	N	N	10	<5

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
P120710	N	N	N	N	N	N	<5	N	N	N
P120720	N	N	N	<10	N	N	10	N	N	N
P120730	N	N	N	<10	N	N	10	N	N	N
P120740	<5	N	N	10	N	N	10	10	N	N
P120750	5	N	N	15	N	N	15	N	N	N
P120760	10	N	N	70	N	N	20	N	N	<5
P120770	20	N	N	70	N	N	20	N	N	<5
P120780	10	N	N	50	N	N	20	N	N	<5
P120790	<5	N	N	20	N	N	15	N	N	N
P120800	N	N	N	<10	N	N	10	N	N	N
P120805	5	N	N	20	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 #
P120710	N	N	N	20	N	N	<200	N	.01	7
P120720	N	N	N	15	N	N	N	N	.01	7
P120730	N	N	N	100	N	N	700	10	.03	7
P120740	N	N	N	70	N	N	N	15	.05	7
P120750	N	N	N	100	N	N	N	50	.06	7
P120760	N	N	N	150	N	N	N	70	.06	7
P120770	N	N	N	200	N	N	N	70	.09	7
P120780	N	N	N	100	N	N	N	70	.07	7
P120790	N	N	N	70	N	N	N	20	.04	7
P120800	N	N	N	20	N	N	N	<10	.02	7
P120805	N	N	N	70	N	N	N	20	.06	7

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P130015	37 43 26	89 53 1	<.05	.7	.15	N	N	.1	N	N	N	15
P130040	37 43 26	89 53 1	<.05	2	1	<.2	N	.3	N	N	N	150
P130060	37 43 26	89 53 1	N	.3	.1	N	N	.05	N	N	N	10
P130070	37 43 26	89 53 1	<.05	.1	<.02	N	N	.005	N	N	N	N
P130080	37 43 26	89 53 1	<.05	.05	<.02	N	N	.007	N	N	N	N
P130100	37 43 26	89 53 1	<.05	<.05	<.02	N	N	.005	N	N	N	<10
P130120	37 43 26	89 53 1	N	.05	.02	N	N	.005	N	N	N	N
P130140	37 43 26	89 53 1	N	N	<.02	N	N	<.002	N	N	N	N
P130160	37 43 26	89 53 1	<.05	N	<.02	N	N	.003	N	N	N	N
P130180	37 43 26	89 53 1	<.05	N	.02	N	N	.003	N	N	N	N
P130200	37 43 26	89 53 1	N	N	N	N	N	<.002	N	N	N	N
P130220	37 43 26	89 53 1	N	.5	.3	N	N	.1	1	N	N	50
P130240	37 43 26	89 53 1	N	.1	.02	N	N	.01	N	N	N	N
P130250	37 43 26	89 53 1	N	<.05	<.02	N	N	.002	N	N	N	N
P130290	37 43 26	89 53 1	N	.5	.02	N	N	.01	N	N	N	<10
P130310	37 43 26	89 53 1	.05	1	.2	N	N	.05	.7	N	N	70
P130330	37 43 26	89 53 1	N	1.5	.3	N	N	.1	<.5	N	N	70
P130350	37 43 26	89 53 1	N	.2	.03	N	N	.01	N	N	N	N
P130370	37 43 26	89 53 1	N	N	N	N	N	.002	N	N	N	N
P130390	37 43 26	89 53 1	<.05	3	.3	N	N	.07	<.5	N	N	30
P130410	37 43 26	89 53 1	N	.15	.02	N	N	.01	N	N	N	N
P130435	37 43 26	89 53 1	.05	.5	.2	N	N	.07	N	N	N	30
P130455	37 43 26	89 53 1	<.05	.7	.05	N	N	.03	N	N	N	20
P130465	37 43 26	89 53 1	N	.1	.03	N	N	.02	N	N	N	50
P130485	37 43 26	89 53 1	<.05	1	.07	N	N	.05	N	N	N	20
P130505	37 43 26	89 53 1	15	.5	10	N	N	.015	N	N	N	30
P130525	37 43 26	89 53 1	.15	2	.3	N	N	.07	<.5	N	N	30
P130535	37 43 26	89 53 1	.2	.5	.2	N	N	.02	N	N	N	50
P130550	37 43 26	89 53 1	<.05	1	.1	N	N	.02	N	N	N	30
P130570	37 43 26	89 53 1	N	1	.3	<.2	N	.15	N	N	N	30
P130590	37 43 26	89 53 1	N	.7	.1	N	N	.1	N	N	N	50
P130610	37 43 26	89 53 1	.05	2	.1	N	N	.03	N	N	N	15
P130620	37 43 26	89 53 1	<.05	.3	.05	N	N	.02	N	N	N	30
P130640	37 43 26	89 53 1	<.05	.5	.07	N	N	.007	N	N	N	30
P130660	37 43 26	89 53 1	<.05	.15	.05	N	N	.002	N	N	N	50
P130680	37 43 26	89 53 1	<.05	3	.1	N	N	.05	N	N	N	30
P130700	37 43 26	89 53 1	N	.7	.1	N	N	.02	N	N	N	20
P130720	37 43 26	89 53 1	<.05	2	.07	N	N	.015	<.5	N	N	15
P130740	37 43 26	89 53 1	N	.1	.03	N	N	<.002	N	N	N	20
P130760	37 43 26	89 53 1	N	.2	.02	N	N	.005	N	N	N	10
P130780	37 43 26	89 53 1	.07	.5	.07	N	N	.01	N	N	N	30
P130800	37 43 26	89 53 1	.07	1.5	.05	N	N	.01	<.5	N	N	30
P130820	37 43 26	89 53 1	.05	.7	.03	N	N	<.002	N	N	N	70
P130840	37 43 26	89 53 1	<.05	1.5	.1	N	N	.03	N	N	N	20
P130860	37 43 26	89 53 1	2	1.5	2	N	N	.1	N	N	N	30
P130880	37 43 26	89 53 1	.1	1	.3	.3	N	.07	N	N	N	20
P130900	37 43 26	89 53 1	.07	2	.15	N	N	.005	N	N	N	15
P130915	37 43 26	89 53 1	N	.3	.05	N	N	.02	N	N	N	10
P130935	37 43 26	89 53 1	N	.2	.03	N	N	.02	10	N	N	15
P130955	37 43 26	89 53 1	<.05	.7	.05	N	N	.03	N	N	N	20
P130970	37 43 26	89 53 1	N	.5	.07	N	N	.03	N	N	N	15
P130990	37 43 26	89 53 1	5	1	7	.2	N	.07	1.5	N	N	50
P131000	37 43 26	89 53 1	<.05	2	.15	<.2	N	.05	N	N	N	15
P131020	37 43 26	89 53 1	.05	1	.2	N	N	.03	<.5	N	N	20
P131035	37 43 26	89 53 1	N	.07	<.02	N	N	.007	N	N	N	N
P131050	37 43 26	89 53 1	N	.2	.05	N	N	.02	N	N	N	10
P131065	37 43 26	89 53 1	<.05	1	.5	N	N	.1	N	N	N	50
P131085	37 43 26	89 53 1	N	.15	.02	N	N	.01	N	N	N	N
P131105	37 43 26	89 53 1	<.05	2	1	.7	N	.15	N	N	N	70
P131125	37 43 26	89 53 1	N	.15	.03	N	N	.02	N	N	N	20

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P130015	200	N	N	N	N	<10	5	N	N	N	<10	N	N
P130040	1,500	<1	N	N	<10	20	30	15	N	N	50	10	<20
P130060	150	N	N	N	N	N	<5	N	N	N	N	5	N
P130070	70	N	N	N	N	N	<5	N	N	N	N	N	N
P130080	100	N	N	N	N	N	N	N	N	N	N	N	N
P130100	30	N	N	N	N	N	N	N	N	N	N	N	N
P130120	70	N	N	N	N	N	N	N	N	N	N	N	N
P130140	N	N	N	N	N	N	N	N	N	N	N	N	N
P130160	N	N	N	N	N	N	N	N	N	N	N	N	N
P130180	<20	N	N	N	N	N	N	N	N	N	N	N	N
P130200	N	N	N	N	N	N	N	N	N	N	N	N	N
P130220	>5,000	<1	N	N	N	10	100	<5	N	N	<10	20	N
P130240	1,500	N	N	N	N	N	<5	N	N	N	N	N	N
P130250	70	N	N	N	N	N	N	N	N	N	N	N	N
P130290	N	N	N	N	N	N	7	N	N	N	N	N	N
P130310	100	N	N	N	N	<10	50	<5	N	N	<10	<5	N
P130330	500	N	N	N	N	10	30	<5	N	N	10	20	N
P130350	50	N	N	N	N	N	5	N	N	N	N	N	N
P130370	20	N	N	N	N	N	N	N	N	N	N	N	N
P130390	100	N	N	N	N	<10	20	<5	N	N	<10	<5	N
P130410	70	N	N	N	N	N	5	N	N	N	N	N	N
P130435	70	N	N	N	N	<10	<5	<5	N	N	N	N	N
P130455	70	N	N	N	N	N	5	N	N	N	N	N	N
P130465	100	N	N	N	N	N	<5	N	N	N	N	<5	N
P130485	150	N	N	N	N	N	10	N	N	N	N	N	N
P130505	20	N	N	N	N	<10	5	N	N	N	100	N	N
P130525	150	N	N	N	10	<10	30	N	N	N	N	5	N
P130535	70	N	N	N	N	<10	7	N	N	N	N	N	N
P130550	50	N	N	N	N	N	5	N	N	N	N	N	N
P130570	500	N	N	N	N	10	20	10	N	N	<10	5	N
P130590	70	N	N	N	N	<10	5	N	N	N	N	N	N
P130610	50	N	N	N	N	N	30	N	N	N	10	<5	N
P130620	30	N	N	N	N	N	<5	N	N	N	N	N	N
P130640	20	N	N	N	N	N	10	N	N	N	N	N	N
P130660	20	N	N	N	N	N	N	N	N	N	N	N	N
P130680	30	N	N	N	<10	<10	50	<5	N	N	N	N	N
P130700	20	N	N	N	N	N	<5	N	N	N	N	N	N
P130720	20	N	N	N	N	N	30	N	N	N	N	N	N
P130740	<20	N	N	N	N	N	N	N	N	N	N	N	N
P130760	100	N	N	N	N	N	N	N	N	N	N	N	N
P130780	150	N	N	N	N	N	7	N	N	N	50	N	N
P130800	150	N	N	N	N	N	15	N	N	N	30	N	N
P130820	200	N	N	N	N	N	50	N	N	N	<10	N	N
P130840	100	N	N	N	N	N	20	N	N	N	N	N	N
P130860	100	N	N	N	N	15	20	10	N	N	10	7	N
P130880	300	N	N	N	N	10	5	5	N	N	N	<5	N
P130900	20	N	N	N	N	N	30	N	N	N	N	N	N
P130915	30	N	N	N	N	N	<5	N	N	N	N	N	N
P130935	20	N	N	N	N	N	<5	N	N	N	N	N	N
P130955	70	N	N	N	N	N	5	N	N	N	N	N	N
P130970	70	N	N	N	N	N	<5	N	N	N	N	<5	N
P130990	70	N	N	N	N	20	5	20	N	N	10	5	N
P131000	70	N	N	N	<10	10	7	5	N	N	N	<5	N
P131020	70	N	N	N	N	<10	7	<5	N	N	N	N	N
P131035	<20	N	N	N	N	N	N	N	N	N	N	N	N
P131050	20	N	N	N	N	N	<5	N	N	N	N	N	N
P131065	150	N	N	N	N	10	5	15	N	N	<10	N	N
P131085	30	N	N	N	N	N	<5	N	N	N	N	N	N
P131105	300	N	N	N	N	30	15	30	N	N	<10	5	<20
P131125	30	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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 #
P130015	7	N	N	N	N	N	N	15	N	N	N	200	.04	30
P130040	20	10	N	N	N	<100	N	100	N	N	N	200	.17	30
P130060	<5	N	N	N	N	N	N	10	N	N	N	70	.04	30
P130070	N	N	N	N	N	N	N	N	N	N	N	20	<.01	30
P130080	N	N	N	N	N	N	N	N	N	N	N	30	<.01	30
P130100	N	N	N	N	N	N	N	N	N	N	N	50	<.01	30
P130120	N	N	N	N	N	N	N	N	N	N	N	N	<.01	32
P130140	N	N	N	N	N	N	N	N	N	N	N	10	<.01	32
P130160	N	N	N	N	N	N	N	N	N	N	N	10	<.01	32
P130180	N	N	N	N	N	N	N	N	N	N	N	50	<.01	32
P130200	N	N	N	N	N	N	N	N	N	N	N	10	<.01	32
P130220	<5	20	N	N	N	N	N	70	N	N	N	70	.06	43
P130240	N	N	N	N	N	N	N	N	N	N	N	10	<.01	43
P130250	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	43
P130290	<5	N	N	N	N	N	N	<10	N	N	N	10	.02	43
P130310	10	N	N	N	N	N	N	30	N	N	N	50	.05	43
P130330	20	<10	N	N	N	N	N	50	N	N	N	70	.06	43
P130350	N	N	N	N	N	N	N	N	N	N	N	15	<.01	43
P130370	N	N	N	N	N	N	N	N	N	N	N	30	<.01	43
P130390	10	N	N	N	N	100	N	50	N	N	N	70	.06	43
P130410	N	N	N	N	N	N	N	N	N	N	N	70	<.01	43
P130435	<5	N	N	N	N	<100	N	20	N	N	N	10	.04	43
P130455	10	N	N	N	N	N	N	10	N	N	N	<10	<.01	51
P130465	<5	N	N	N	N	N	N	15	N	N	N	<10	<.01	51
P130485	5	N	N	N	N	N	N	<10	N	N	N	70	.01	51
P130505	N	N	N	N	N	<100	N	15	N	N	N	10	.02	51
P130525	30	15	N	N	N	100	N	15	N	N	N	70	.03	51
P130535	<5	N	N	N	N	N	N	N	N	N	N	15	<.01	51
P130550	7	N	N	N	N	N	N	10	N	N	N	<10	<.01	51
P130570	10	10	N	N	N	N	N	20	N	N	N	100	.04	51
P130590	5	N	N	N	N	N	N	20	N	N	N	20	.03	52
P130610	15	N	N	N	N	N	N	10	N	N	N	70	.02	52
P130620	<5	N	N	N	N	N	N	<10	N	N	<200	15	<.01	52
P130640	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P130660	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P130680	10	15	N	N	N	N	N	10	N	N	N	10	.05	52
P130700	N	N	N	N	N	N	N	<10	N	N	N	30	.02	52
P130720	7	15	N	N	N	N	N	N	N	N	N	<10	.03	52
P130740	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P130760	N	N	N	N	N	N	N	N	N	N	N	10	<.01	52
P130780	5	N	N	N	N	N	N	N	N	N	N	50	<.01	52
P130800	10	<10	N	N	N	N	N	N	N	N	N	30	.07	52
P130820	N	N	N	N	N	1,000	N	N	N	N	N	N	<.01	52
P130840	10	<10	N	N	N	N	N	15	N	N	N	30	.03	52
P130860	15	70	N	N	N	N	N	30	N	N	N	50	.05	52
P130880	7	<10	N	N	N	N	N	20	N	N	N	50	.03	52
P130900	N	20	N	N	N	N	N	N	N	N	N	N	<.01	52
P130915	N	N	N	N	N	N	N	10	N	N	N	10	.02	52
P130935	N	N	N	N	N	N	N	10	N	N	N	<10	<.01	53
P130955	<5	N	N	N	N	N	N	10	N	N	N	15	<.01	53
P130970	N	N	N	N	N	N	N	15	N	N	N	20	.02	53
P130990	10	150	N	N	N	N	N	50	N	N	N	15	.05	53
P131000	15	<10	N	N	N	N	N	20	N	N	N	<10	.02	53
P131020	10	15	N	N	N	N	N	10	N	N	N	<10	.02	53
P131035	N	N	N	N	N	N	N	N	N	N	N	10	<.01	53
P131050	N	N	N	N	N	N	N	<10	N	N	N	20	.01	53
P131065	10	10	N	N	N	N	N	20	N	N	N	50	.04	53
P131085	<5	N	N	N	N	N	N	N	N	N	N	30	<.01	53
P131105	10	10	N	N	N	N	N	20	N	N	N	150	.05	53
P131125	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	54

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P131145	37 43 26	89 53 1	N	.1	<.02	N	N	.01	N	N	N	15
P131165	37 43 26	89 53 1	N	.5	.07	N	N	.03	N	N	N	30
P131185	37 43 26	89 53 1	<.05	.3	.05	N	N	.02	N	N	N	30
P131205	37 43 26	89 53 1	<.05	.7	.05	N	N	.01	N	N	N	15
P131225	37 43 26	89 53 1	N	.1	.02	N	N	.007	N	N	N	20
P131245	37 43 26	89 53 1	N	.05	<.02	N	N	.003	N	N	N	N
P131255	37 43 26	89 53 1	<.05	.5	.1	N	N	.05	N	N	N	20
P131275	37 43 26	89 53 1	N	.15	.02	N	N	.01	N	N	N	15
P131300	37 43 26	89 53 1	<.05	<.05	.02	N	N	.002	N	N	N	10
P131320	37 43 26	89 53 1	<.05	3	<.02	N	N	.002	<.5	N	N	<10
P131340	37 43 26	89 53 1	N	.15	<.02	N	N	.003	N	N	N	N
P131360	37 43 26	89 53 1	<.05	.2	<.02	N	N	.005	N	N	N	10
P131380	37 43 26	89 53 1	<.05	.3	.1	N	N	.03	N	N	N	50
P131400	37 43 26	89 53 1	N	.15	.05	N	N	.02	N	N	N	10
P131420	37 43 26	89 53 1	N	.1	<.02	N	N	.003	N	N	N	N
P131440	37 43 26	89 53 1	<.05	1	.07	N	N	.07	N	N	N	15
P131460	37 43 26	89 53 1	.05	.3	.02	N	N	.005	N	N	N	N
P131475	37 43 26	89 53 1	3	.3	5	N	N	.007	N	N	N	10
P131490	37 43 26	89 53 1	1	.5	1	N	N	.01	N	N	N	10
P131510	37 43 26	89 53 1	N	.5	.05	N	N	.01	N	N	N	10
P131530	37 43 26	89 53 1	.07	.2	.1	N	N	.01	N	<200	N	30
P131550	37 43 26	89 53 1	N	.3	.03	N	N	.01	N	N	N	15
P131570	37 43 26	89 53 1	N	.15	.02	N	N	.007	N	N	N	15
P131590	37 43 26	89 53 1	N	.15	.03	N	N	.007	N	N	N	20
P131610	37 43 26	89 53 1	N	.2	.03	N	N	.01	N	N	N	15
P131630	37 43 26	89 53 1	N	.15	.05	N	N	.02	N	N	N	10
P131650	37 43 26	89 53 1	N	.5	.05	N	N	.015	N	N	N	15
P131670	37 43 26	89 53 1	<.05	1.5	.2	N	N	.03	N	N	N	20
P131690	37 43 26	89 53 1	<.05	.7	.05	N	N	.02	N	N	N	15
P131710	37 43 26	89 53 1	.05	3	.05	N	N	.02	N	N	N	15
P131730	37 43 26	89 53 1	N	.7	.03	N	N	.02	N	N	N	15
P131750	37 43 26	89 53 1	N	2	.02	N	N	.005	N	N	N	20
P131770	37 43 26	89 53 1	.05	.15	.03	N	N	.002	N	N	N	<10
P131790	37 43 26	89 53 1	.07	.2	.05	N	N	.007	N	N	N	10
P131810	37 43 26	89 53 1	N	.15	.02	N	N	.003	N	N	N	15
P131830	37 43 26	89 53 1	N	.3	<.02	N	N	.002	N	N	N	15
P131850	37 43 26	89 53 1	.07	.2	.02	N	N	.005	N	N	N	15
P131870	37 43 26	89 53 1	5	1	5	N	N	.01	N	N	N	15
P131890	37 43 26	89 53 1	7	3	5	<.2	N	.015	1	N	N	15
P131910	37 43 26	89 53 1	.2	10	.7	.3	N	.03	2	1,000	N	30
P131930	37 43 26	89 53 1	.07	.7	.1	N	N	.02	N	N	N	30
P131950	37 43 26	89 53 1	N	.5	.05	N	N	.015	N	N	N	10
P131970	37 43 26	89 53 1	.2	.5	.2	N	N	.01	N	N	N	15
P131990	37 43 26	89 53 1	1.5	.2	.7	N	N	.003	N	N	N	10
P132010	37 43 26	89 53 1	N	.07	.03	N	N	<.002	N	N	N	15
P132030	37 43 26	89 53 1	<.05	.15	.05	N	N	.005	N	N	N	15
P132050	37 43 26	89 53 1	.3	.2	.5	N	N	.005	N	N	N	20
P132070	37 43 26	89 53 1	.3	.2	.5	N	N	<.002	N	N	N	30
P132090	37 43 26	89 53 1	<.05	.15	.05	N	N	.002	N	N	N	50
P132110	37 43 26	89 53 1	5	.7	3	N	N	<.002	N	N	N	15
P132130	37 43 26	89 53 1	15	.2	7	<.2	N	.003	N	N	N	15
P132150	37 43 26	89 53 1	.2	1	.2	N	N	.007	N	N	N	50
P132170	37 43 26	89 53 1	3	.2	2	N	N	<.002	N	N	N	30
P132190	37 43 26	89 53 1	.1	.15	.1	N	N	<.002	N	N	N	50
P132210	37 43 26	89 53 1	3	.3	2	N	N	.002	N	N	N	20
P132230	37 43 26	89 53 1	7	1.5	5	N	N	.003	N	N	N	15
P132250	37 43 26	89 53 1	10	2	7	.2	N	<.002	.5	N	N	<10
P132270	37 43 26	89 53 1	15	.5	10	.2	N	.002	N	N	N	10
P132290	37 43 26	89 53 1	.15	7	.3	N	N	<.002	.5	N	N	<10
P132310	37 43 26	89 53 1	3	15	3	<.2	N	.015	1	N	N	10

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P131145	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P131165	30	N	N	N	N	N	30	N	N	N	N	N	N
P131185	<20	N	N	N	N	N	7	N	N	N	N	N	N
P131205	20	N	N	N	N	N	50	N	N	N	N	N	N
P131225	20	N	N	N	N	N	<5	N	N	N	N	N	N
P131245	N	N	N	N	N	N	N	N	N	N	N	N	N
P131255	50	N	N	N	N	<10	5	<5	N	N	N	N	N
P131275	N	N	N	N	N	N	<5	N	N	N	N	N	N
P131300	20	N	N	N	N	N	N	N	N	N	N	N	N
P131320	N	N	N	N	N	N	30	N	N	N	N	N	N
P131340	<20	N	N	N	N	N	N	N	N	N	N	N	N
P131360	<20	N	N	N	N	N	70	N	N	N	N	N	N
P131380	70	N	N	N	N	<10	<5	N	N	N	N	N	N
P131400	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
P131420	N	N	N	N	N	N	5	N	N	N	N	N	N
P131440	70	N	N	N	N	<10	7	N	N	N	10	7	N
P131460	<20	N	N	N	N	N	5	N	N	N	N	<5	N
P131475	N	N	N	N	N	N	5	N	N	N	N	5	N
P131490	N	N	N	N	N	N	<5	N	N	N	N	5	N
P131510	<20	N	N	N	N	N	5	N	N	N	N	5	N
P131530	20	N	N	N	N	N	<5	N	N	N	N	10	N
P131550	20	N	N	N	N	N	5	N	N	N	N	15	N
P131570	N	N	N	N	N	N	30	N	N	N	N	5	N
P131590	20	N	N	N	N	N	<5	N	N	N	N	7	N
P131610	<20	N	N	N	N	N	<5	N	N	N	N	10	N
P131630	50	N	N	N	N	N	7	N	N	N	N	10	N
P131650	20	N	N	N	N	N	7	N	N	N	N	20	N
P131670	150	N	N	N	N	N	10	<5	N	N	N	50	N
P131690	70	N	N	N	N	N	70	N	N	N	N	10	N
P131710	70	N	N	N	N	N	150	<5	N	N	N	<5	N
P131730	30	N	N	N	N	N	50	N	N	N	N	N	N
P131750	<20	N	N	N	N	N	150	N	N	N	N	<5	N
P131770	N	N	N	N	N	N	<5	N	N	N	N	N	N
P131790	<20	N	N	N	N	N	5	N	N	N	N	<5	N
P131810	N	N	N	N	N	N	<5	N	N	N	N	N	N
P131830	N	N	N	N	N	N	<5	N	N	N	N	N	N
P131850	N	N	N	N	N	N	5	N	N	N	N	<5	N
P131870	<20	N	N	N	N	N	20	N	N	N	15	10	N
P131890	N	N	N	N	N	N	70	<5	N	N	20	20	N
P131910	<20	N	N	N	15	N	200	7	N	N	20	50	N
P131930	20	N	N	N	N	N	50	N	N	N	N	20	N
P131950	N	N	N	N	N	N	100	N	N	N	N	<5	N
P131970	N	N	N	N	N	N	100	N	N	N	N	<5	N
P131990	N	N	N	N	N	N	50	N	N	N	<10	N	N
P132010	N	N	N	N	N	N	15	N	N	N	N	N	N
P132030	N	N	N	N	N	N	50	N	N	N	N	<5	N
P132050	<20	N	N	N	N	N	5	N	N	N	N	<5	N
P132070	N	N	N	N	N	N	15	N	N	N	N	N	N
P132090	<20	N	N	N	N	N	10	N	N	N	N	N	N
P132110	N	N	N	N	N	N	<5	N	N	N	10	N	N
P132130	<20	N	N	N	N	N	15	N	N	N	30	<5	N
P132150	20	N	N	N	N	N	20	N	N	N	N	N	N
P132170	N	N	N	N	N	N	15	N	N	N	<10	<5	N
P132190	<20	N	N	N	N	N	300	N	N	N	N	N	N
P132210	N	N	N	N	N	N	30	N	N	N	<10	N	N
P132230	<20	N	N	N	N	N	50	N	N	N	<10	20	N
P132250	N	N	N	N	N	N	15	N	N	N	20	15	N
P132270	N	N	N	N	N	N	<5	N	N	N	150	20	N
P132290	N	N	N	N	N	N	20	<5	N	N	10	10	N
P132310	50	N	N	N	<10	N	70	7	N	N	15	15	N

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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 #
P131145	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P131165	7	N	N	N	N	N	N	20	N	N	N	10	.02	54
P131185	<5	N	N	N	N	N	N	10	N	N	N	<10	.01	54
P131205	<5	15	N	N	N	N	N	N	N	N	N	<10	<.01	54
P131225	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P131245	N	N	N	N	N	N	N	N	N	N	N	50	<.01	54
P131255	5	10	N	N	N	N	N	20	N	N	N	20	.02	54
P131275	<5	N	N	N	N	N	N	10	N	N	N	N	<.01	54
P131300	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P131320	<5	15	N	N	N	N	N	N	N	N	N	<10	<.01	55
P131340	N	N	N	N	N	N	N	N	N	N	N	20	<.01	55
P131360	<5	N	N	N	N	N	N	N	N	N	N	<10	<.01	55
P131380	<5	N	N	N	N	N	N	10	N	N	N	15	.03	55
P131400	N	N	N	N	N	N	N	15	N	N	N	50	<.01	55
P131420	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131440	7	N	N	N	N	N	N	20	N	N	N	70	.02	55
P131460	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131475	N	N	N	N	N	N	N	<10	N	N	N	N	.01	55
P131490	<5	20	N	N	N	N	N	<10	N	N	N	N	<.01	55
P131510	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131530	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131550	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131570	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131590	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131610	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131630	N	N	N	N	N	N	N	10	N	N	N	<10	<.01	55
P131650	<5	N	N	N	N	N	N	<10	N	N	N	N	<.01	55
P131670	15	15	N	N	N	N	N	20	N	N	N	15	.03	55
P131690	<5	<10	N	N	N	N	N	15	N	N	N	10	.01	55
P131710	5	50	N	N	N	N	N	10	N	N	N	N	<.01	55
P131730	<5	N	N	N	N	N	N	<10	N	N	N	<10	<.01	55
P131750	7	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P131770	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P131790	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P131810	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P131830	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P131850	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P131870	5	10	N	N	N	N	N	20	N	N	N	N	.01	63
P131890	10	200	N	N	N	N	N	20	N	N	N	N	.02	63
P131910	50	150	N	N	N	N	N	50	N	N	N	<10	.07	63
P131930	5	N	N	N	N	N	N	15	N	N	N	N	.02	63
P131950	10	N	N	N	N	N	N	10	N	N	N	N	<.01	63
P131970	5	<10	N	N	N	N	N	<10	N	N	N	N	<.01	63
P131990	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P132010	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P132030	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132050	N	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132070	N	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132090	N	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132110	N	<10	N	N	N	N	N	N	N	N	N	N	<.01	64
P132130	N	10	N	N	N	N	N	10	N	N	N	N	.01	64
P132150	<5	10	N	N	N	N	N	N	N	N	N	15	<.01	64
P132170	N	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132190	N	N	N	N	N	N	N	N	N	N	N	N	<.01	64
P132210	<5	<10	N	N	N	N	N	N	N	N	N	N	<.01	64
P132230	7	20	N	N	N	N	N	N	N	N	N	N	<.01	64
P132250	5	100	N	N	N	N	N	<10	N	N	N	N	<.01	64
P132270	N	10	N	N	N	N	N	<10	N	N	N	N	.02	64
P132290	15	100	N	N	N	N	N	N	N	N	N	N	<.01	64
P132310	20	300	N	N	N	N	N	<10	N	N	N	N	<.01	64

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P132330	37 43 26	89 53 1	.15	10	.5	N	N	.07	.5	500	N	70
P132350	37 43 26	89 53 1	.1	5	2	<.2	N	.2	N	N	N	200
P132370	37 43 26	89 53 1	.07	5	1.5	<.2	N	.3	N	N	N	200
P132390	37 43 26	89 53 1	.2	3	.3	N	N	.03	<.5	<200	N	30
P132410	37 43 26	89 53 1	<.05	10	.1	<.2	N	.1	N	N	N	<10
P132430	37 43 26	89 53 1	.05	5	.3	<.2	N	.2	N	N	N	15
P132450	37 43 26	89 53 1	.07	5	.3	<.2	N	.15	N	N	N	20
P132470	37 43 26	89 53 1	<.05	7	.3	.2	N	.15	N	N	N	20
P132490	37 43 26	89 53 1	N	2	.2	N	N	.15	N	N	N	20
P132510	37 43 26	89 53 1	N	.2	.02	N	N	.02	N	N	N	N
P132530	37 43 26	89 53 1	N	1	.15	N	N	.1	N	N	N	10
P132550	37 43 26	89 53 1	N	1.5	.3	.2	N	.15	N	N	N	20
P132570	37 43 26	89 53 1	N	3	.3	<.2	N	.15	N	N	N	30
P132590	37 43 26	89 53 1	<.05	5	1	N	N	.2	N	N	N	150
P132610	37 43 26	89 53 1	<.05	15	1	N	N	.2	.5	N	N	200
P132630	37 43 26	89 53 1	<.05	10	1.5	N	N	.5	<.5	N	N	300
P132650	37 43 26	89 53 1	.15	15	.3	N	N	.015	3	N	N	10
P132670	37 43 26	89 53 1	.2	15	.2	N	N	.02	3	N	N	<10
P132690	37 43 26	89 53 1	<.05	.7	.07	N	N	.03	N	N	N	10
P132710	37 43 26	89 53 1	.15	7	.5	<.2	N	.1	.5	N	N	30
P132730	37 43 26	89 53 1	<.05	10	.5	.2	N	.3	N	N	N	50
P132750	37 43 26	89 53 1	.15	5	.7	.2	N	.2	N	N	N	50
P132770	37 43 26	89 53 1	.05	10	.5	.3	N	.3	N	N	N	30
P132790	37 43 26	89 53 1	<.05	10	.7	<.2	N	.2	N	N	N	70
P132810	37 43 26	89 53 1	.2	3	2	.5	N	.5	N	N	N	100
P132830	37 43 26	89 53 1	.1	3	1	1	N	.3	N	N	N	100
P132850	37 43 26	89 53 1	<.05	10	.5	.2	N	.2	N	N	N	30
P132870	37 43 26	89 53 1	.15	3	2	.3	N	.5	N	N	N	150
P132890	37 43 26	89 53 1	.07	15	.7	.2	N	.3	N	N	N	70
P132910	37 43 26	89 53 1	.05	10	.7	.3	N	.3	N	N	N	50
P132925	37 43 26	89 53 1	.05	7	.7	.2	N	.2	N	N	N	70
P132932	37 43 26	89 53 1	.1	1	.3	2	N	.15	N	N	N	15
P132945	37 43 26	89 53 1	.1	3	.7	1.5	N	.5	N	N	N	70
P132956	37 43 26	89 53 1	.07	5	1	.7	N	.3	N	N	N	100
P132975	37 43 26	89 53 1	N	3	.5	.3	N	.15	N	N	N	70
P132996	37 43 26	89 53 1	<.05	1.5	.5	.3	N	.2	N	N	N	70
P133003	37 43 26	89 53 1	N	1	.3	<.2	N	.15	.7	N	N	70
P133008	37 43 26	89 53 1	N	.7	.3	.2	N	.1	N	N	N	20
P133013	37 43 26	89 53 1	N	1	.3	.2	N	.2	N	N	N	30
P133019	37 43 26	89 53 1	<.05	5	1	1	N	.3	N	N	N	150
P133025	37 43 26	89 53 1	N	15	2	.3	N	.7	N	N	N	150
P133033	37 43 26	89 53 1	<.05	10	2	.2	N	.5	N	N	N	200

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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
P132330	20	N	N	N	<10	<10	50	7	N	N	10	15	N
P132350	70	2	N	N	N	20	30	30	N	N	15	<5	N
P132370	70	1.5	N	N	N	30	50	50	N	N	10	<5	N
P132390	N	N	N	N	N	N	50	<5	N	N	<10	<5	N
P132410	50	N	N	N	10	<10	30	5	N	N	<10	10	N
P132430	200	N	N	N	<10	15	20	10	N	N	10	<5	N
P132450	300	N	N	N	<10	10	30	10	N	N	15	N	N
P132470	700	N	N	N	<10	30	20	15	N	N	N	N	N
P132490	500	N	N	N	N	<10	10	7	N	N	N	N	N
P132510	50	N	N	N	N	N	N	N	N	N	N	N	N
P132530	200	N	N	N	N	<10	7	10	N	N	N	N	N
P132550	300	N	N	N	N	15	10	20	N	N	N	N	N
P132570	300	N	N	N	<10	10	20	20	N	N	10	N	N
P132590	50	1.5	N	N	<10	10	50	20	N	N	70	<5	N
P132610	50	2	N	N	<10	15	100	30	N	N	150	N	N
P132630	70	3	N	N	<10	20	30	50	N	N	50	N	N
P132650	<20	N	N	N	N	N	70	5	N	N	10	N	N
P132670	30	N	N	N	N	N	50	10	N	N	15	N	N
P132690	30	N	N	N	N	N	5	N	N	N	N	<5	N
P132710	70	N	N	N	<10	10	30	10	N	N	10	15	N
P132730	500	1	N	N	<10	30	50	50	N	N	15	10	N
P132750	300	<1	N	N	N	20	30	30	N	N	50	N	N
P132770	500	<1	N	N	<10	20	20	30	N	N	10	<5	N
P132790	300	<1	N	N	<10	30	200	50	N	N	20	N	N
P132810	300	1	N	N	15	150	30	70	N	<50	30	N	N
P132830	500	<1	N	N	10	150	20	70	N	<50	15	N	N
P132850	300	<1	N	N	<10	20	30	20	N	N	N	N	N
P132870	500	1	N	N	10	150	20	50	N	<50	20	N	N
P132890	500	<1	N	N	<10	30	150	70	N	N	70	N	N
P132910	300	N	N	N	10	20	70	50	N	N	10	N	N
P132925	200	<1	N	N	<10	20	50	30	N	N	20	N	N
P132932	500	N	N	N	N	10	30	20	N	N	20	N	N
P132945	1,000	<1	N	N	N	50	200	70	N	<50	15	<5	N
P132956	700	1	N	N	<10	50	30	30	N	<50	15	N	N
P132975	1,000	<1	N	N	N	15	15	30	N	N	15	N	N
P132996	1,500	<1	N	N	N	20	10	30	N	N	10	N	N
P133003	1,000	<1	N	N	N	10	5	15	N	N	<10	N	N
P133008	1,000	N	N	N	N	15	5	20	N	N	<10	N	N
P133013	700	N	N	N	N	20	7	20	N	N	10	N	N
P133019	2,000	2	N	N	<10	70	30	70	N	<50	30	N	N
P133025	1,000	1	N	N	10	20	20	100	N	N	20	<5	N
P133033	1,000	1.5	N	N	<10	20	20	70	N	N	30	<5	N

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P13, 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 #
P132330	20	500	N	N	50	N	N	15	N	N	N	15	.06	68
P132350	20	150	N	<5	N	N	N	50	N	N	N	70	.27	68
P132370	15	150	N	<5	N	N	N	50	N	N	N	70	.17	68
P132390	20	100	N	N	N	N	N	<10	N	N	N	<10	.02	68
P132410	20	150	N	N	N	N	N	<10	N	N	N	15	.02	69
P132430	15	100	N	N	N	N	N	10	N	N	N	70	.02	69
P132450	15	70	N	N	N	N	N	15	N	N	N	70	.02	69
P132470	20	50	N	N	N	N	N	15	N	N	N	70	.02	69
P132490	10	<10	N	N	N	N	N	20	N	N	N	200	.01	69
P132510	N	30	N	N	N	N	N	N	N	N	N	30	<.01	69
P132530	5	<10	N	N	N	N	N	20	N	N	N	70	.01	69
P132550	10	10	N	N	N	N	N	20	N	N	N	70	.03	69
P132570	15	50	N	N	N	N	N	20	N	N	N	70	.05	73
P132590	20	1,000	N	N	N	N	N	30	N	N	N	70	.18	73
P132610	15	2,000	N	<5	100	N	N	30	N	N	N	100	.21	73
P132630	20	1,000	N	5	N	N	N	70	N	N	N	150	.24	73
P132650	10	70	N	N	N	N	N	N	N	N	N	N	.02	73
P132670	7	1,000	N	N	N	N	N	N	N	N	N	10	<.01	73
P132690	N	2,000	N	N	N	N	N	10	N	N	N	<10	<.01	73
P132710	15	200	N	N	N	N	N	30	N	N	<200	50	.02	73
P132730	20	500	N	N	N	N	N	50	N	N	500	70	.06	73
P132750	15	150	N	N	N	N	N	20	N	N	200	50	.07	73
P132770	20	200	N	N	<10	N	N	20	N	N	N	70	.06	73
P132790	20	2,000	N	<5	1,000	N	N	30	N	N	N	70	.08	73
P132810	30	100	N	5	<10	N	N	70	N	N	N	70	.11	73
P132830	20	150	N	<5	N	N	N	50	N	N	N	70	.08	73
P132850	15	1,000	N	N	70	N	N	20	N	N	N	70	.06	73
P132870	20	50	N	5	<10	N	N	100	N	N	N	70	.13	73
P132890	30	150	N	<5	N	N	N	30	N	N	300	70	.08	73
P132910	30	700	N	N	N	N	N	20	N	N	700	50	.07	73
P132925	20	150	N	N	N	N	N	20	N	N	N	50	.07	73
P132932	10	15	N	N	N	N	N	15	N	N	N	50	.02	73
P132945	20	70	N	<5	N	N	N	50	N	N	N	150	.04	73
P132956	20	100	N	<5	N	N	N	50	N	N	N	100	.09	73
P132975	15	10	N	N	N	N	N	15	N	N	N	200	.04	73
P132996	10	15	N	N	N	N	N	20	N	N	N	150	.03	73
P133003	<5	10	N	N	N	N	N	15	N	N	N	200	.03	73
P133008	5	10	N	N	N	N	N	15	N	N	N	100	.02	73
P133013	7	<10	N	N	N	N	N	20	N	N	N	100	.03	73
P133019	20	50	N	<5	N	N	N	30	N	<10	N	150	.06	73
P133025	15	50	N	N	N	N	N	50	N	N	N	150	.04	73
P133033	10	20	N	N	N	N	N	50	N	N	N	100	.06	73

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P14, 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
P140070	37 17 38	89 34 13	.2	.5	.05	N	N	.02	N	N	N	15
P140080	37 17 38	89 34 13	.05	.7	.05	N	N	.02	N	N	N	10
P140090	37 17 38	89 34 13	.7	1	.7	N	N	.05	N	N	N	20
P140100	37 17 38	89 34 13	N	1.5	.02	N	N	.02	N	N	N	<10
P140110	37 17 38	89 34 13	N	.2	<.02	N	N	.02	N	N	N	10
P140120	37 17 38	89 34 13	<.05	1.5	1	N	N	.07	N	N	N	50
P140130	37 17 38	89 34 13	N	1	.3	N	N	.05	N	N	N	20
P140140	37 17 38	89 34 13	.1	.7	.5	N	N	.07	N	N	N	15
P140150	37 17 38	89 34 13	N	.5	.7	N	N	.015	N	N	N	10
P140160	37 17 38	89 34 13	<.05	1	.03	N	N	.1	N	N	N	70
P140170	37 17 38	89 34 13	N	.7	.03	N	N	.015	N	N	N	<10
P140180	37 17 38	89 34 13	<.05	1.5	<.02	N	N	.015	N	N	N	15
P140190	37 17 38	89 34 13	N	1.5	<.02	N	N	.01	N	N	N	N
P140200	37 17 38	89 34 13	N	.3	<.02	N	N	.005	N	N	N	<10
P140210	37 17 38	89 34 13	N	.2	<.02	N	N	.015	N	N	N	N
P140220	37 17 38	89 34 13	N	.2	<.02	N	N	.007	N	N	N	N
P140230	37 17 38	89 34 13	N	.1	.02	N	N	.015	N	N	N	N
P140240	37 17 38	89 34 13	N	.15	<.02	N	N	.01	N	N	N	N
P140250	37 17 38	89 34 13	.07	2	.5	<.2	N	.07	N	N	N	50
P140260	37 17 38	89 34 13	N	1	.02	N	N	.01	N	N	N	N
P140270	37 17 38	89 34 13	N	1	.05	N	N	.02	N	N	N	<10
P140280	37 17 38	89 34 13	.3	5	1	<.2	N	.1	N	N	N	50
P140290	37 17 38	89 34 13	<.05	3	.7	N	N	.1	N	N	N	30
P140300	37 17 38	89 34 13	N	2	.7	N	N	.1	N	N	N	20
P140310	37 17 38	89 34 13	<.05	2	1.5	.2	N	.3	N	N	N	70
P140320	37 17 38	89 34 13	N	2	.15	N	N	.03	N	N	N	15
P140330	37 17 38	89 34 13	N	1.5	.3	N	N	.07	N	N	N	15
P140340	37 17 38	89 34 13	N	.3	.1	N	N	.02	N	N	N	<10
P140350	37 17 38	89 34 13	.07	1	.3	N	N	.05	N	N	N	<10
P140360	37 17 38	89 34 13	N	.5	.1	N	N	.03	N	N	N	N
P140370	37 17 38	89 34 13	N	.1	<.02	N	N	.005	N	N	N	N
P140380	37 17 38	89 34 13	N	.15	.02	N	N	.01	N	N	N	N
P140390	37 17 38	89 34 13	.05	.15	.02	N	N	.007	N	N	N	N
P140400	37 17 38	89 34 13	N	.5	.1	N	N	.03	N	N	N	N
P140410	37 17 38	89 34 13	.07	.2	.15	N	N	.02	N	N	N	N
P140420	37 17 38	89 34 13	.05	.7	.03	N	N	.03	N	N	N	N
P140430	37 17 38	89 34 13	N	.15	<.02	N	N	.015	N	N	N	N
P140440	37 17 38	89 34 13	N	.07	<.02	N	N	.01	N	N	N	N
P140450	37 17 38	89 34 13	N	.1	.02	N	N	.015	N	N	N	N
P140460	37 17 38	89 34 13	.15	.5	.5	N	N	.05	N	N	N	N
P140470	37 17 38	89 34 13	.15	.3	.05	.2	N	.03	N	N	N	N
P140480	37 17 38	89 34 13	.1	.15	.03	N	N	.03	N	N	N	N
P140490	37 17 38	89 34 13	.2	.3	.05	N	N	.05	N	N	N	N
P140500	37 17 38	89 34 13	.05	1	.7	<.2	N	.2	N	N	N	50
P140510	37 17 38	89 34 13	.3	1	.15	N	N	.05	N	N	N	15
P140520	37 17 38	89 34 13	.07	1.5	.7	<.2	N	.2	N	N	N	30
P140530	37 17 38	89 34 13	<.05	.7	.2	N	N	.07	N	N	N	20
P140540	37 17 38	89 34 13	<.05	.7	.3	N	N	.1	N	N	N	30
P140550	37 17 38	89 34 13	N	.5	.1	N	N	.05	N	N	N	15
P140570	37 17 38	89 34 13	.07	1.5	1	<.2	N	.2	N	N	N	50
P140580	37 17 38	89 34 13	N	1.5	.5	<.2	N	.15	N	N	N	30
P140595	37 17 38	89 34 13	N	2	.7	<.2	N	.2	N	N	N	50
P140600	37 17 38	89 34 13	<.05	1.5	1	.2	N	.2	N	N	N	70
P140610	37 17 38	89 34 13	<.05	1.5	.5	.3	N	.15	N	N	N	20
P140620	37 17 38	89 34 13	N	1.5	.7	<.2	N	.1	N	N	N	30
P140630	37 17 38	89 34 13	.3	2	1.5	<.2	N	.2	N	N	N	30
P140640	37 17 38	89 34 13	N	1.5	.3	N	N	.15	N	N	N	30
P140650	37 17 38	89 34 13	N	1.5	.5	N	N	.1	N	N	N	30
P140660	37 17 38	89 34 13	N	1.5	1	N	N	.15	N	N	N	50
P140670	37 17 38	89 34 13	.2	3	2	<.2	N	.5	N	N	N	100

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P14, 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
P140070	50	N	N	N	N	N	5	N	N	N	<10	N	N
P140080	70	N	N	N	N	N	7	N	N	N	10	N	N
P140090	150	N	N	N	<10	<10	20	<5	N	N	200	N	N
P140100	50	N	N	N	N	N	30	N	N	N	50	N	N
P140110	50	N	N	N	N	N	5	N	N	N	N	N	N
P140120	100	N	N	N	N	10	<5	10	N	N	N	N	N
P140130	70	<1	N	N	N	<10	15	<5	N	N	<10	N	N
P140140	150	N	N	N	N	<10	7	<5	N	N	<10	N	N
P140150	50	N	N	N	N	N	7	N	N	N	N	N	N
P140160	500	<1	N	N	N	10	5	7	N	N	15	N	N
P140170	100	N	N	N	N	N	5	N	N	N	50	N	N
P140180	50	<1	N	N	N	N	7	N	N	N	10	N	N
P140190	30	<1	N	N	N	N	5	N	N	N	50	N	N
P140200	20	N	N	N	N	N	10	N	N	N	N	N	N
P140210	50	N	N	N	N	N	N	N	N	N	N	N	N
P140220	N	N	N	N	N	N	N	N	N	N	N	N	N
P140230	<20	N	N	N	N	N	N	N	N	N	N	N	N
P140240	20	N	N	N	N	N	<5	N	N	N	10	N	N
P140250	500	2	N	N	<10	10	7	10	N	N	30	N	N
P140260	50	N	N	N	N	N	<5	N	N	N	20	N	N
P140270	50	N	N	N	N	N	5	N	N	N	<10	N	N
P140280	200	2	N	N	<10	20	10	15	N	N	50	N	N
P140290	300	1	N	N	<10	20	20	15	N	N	50	N	N
P140300	150	<1	N	N	<10	15	20	10	N	N	50	N	N
P140310	300	<1	N	N	10	30	10	15	N	N	30	N	N
P140320	100	N	N	N	N	10	15	<5	N	N	50	N	N
P140330	700	N	N	N	N	10	15	5	N	N	30	N	N
P140340	70	N	N	N	N	N	<5	N	N	N	<10	N	N
P140350	200	N	N	N	N	<10	10	N	N	N	10	N	N
P140360	100	N	N	N	N	N	5	N	N	N	<10	N	N
P140370	20	N	N	N	N	N	N	N	N	N	N	N	N
P140380	150	N	N	N	N	N	N	N	N	N	N	N	N
P140390	<20	N	N	N	N	N	N	N	N	N	N	N	N
P140400	100	N	N	N	N	N	5	N	N	N	N	N	N
P140410	50	N	N	N	N	N	<5	N	N	N	N	N	N
P140420	100	N	N	N	N	N	5	N	N	N	30	5	N
P140430	70	N	N	N	N	N	<5	N	N	N	N	N	N
P140440	150	N	N	N	N	N	N	N	N	N	N	N	N
P140450	100	N	N	N	N	N	N	N	N	N	N	N	N
P140460	150	N	N	N	N	N	5	N	N	N	<10	N	N
P140470	200	N	N	N	N	N	<5	N	N	N	<10	N	N
P140480	1,000	N	N	N	N	N	5	N	N	N	N	N	N
P140490	1,500	N	N	N	N	N	<5	N	N	N	N	N	N
P140500	2,000	N	N	N	N	15	10	10	N	N	10	<5	N
P140510	700	N	N	N	N	N	15	N	N	N	<10	N	N
P140520	1,500	N	N	N	N	15	20	10	N	N	15	<5	N
P140530	150	N	N	N	N	N	7	<5	N	N	<10	N	N
P140540	3,000	N	N	N	N	<10	5	<5	N	N	10	N	N
P140550	300	N	N	N	N	N	<5	N	N	N	N	N	N
P140570	200	N	N	N	N	20	30	10	N	N	15	20	N
P140580	500	N	N	N	N	15	20	7	N	N	10	30	N
P140595	200	N	N	N	<10	20	20	15	N	N	15	15	N
P140600	150	N	N	N	<10	30	20	15	N	N	20	<5	N
P140610	150	N	N	N	N	20	20	10	N	N	10	<5	N
P140620	150	N	N	N	<10	20	20	10	N	N	15	5	N
P140630	300	N	N	N	<10	30	20	30	N	N	20	<5	N
P140640	200	N	N	N	<10	15	30	10	N	N	10	<5	N
P140650	100	N	N	N	15	10	15	5	N	N	10	N	N
P140660	150	N	N	N	<10	15	10	7	N	N	15	N	N
P140670	200	<1	N	N	15	70	20	30	N	N	50	<5	N

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P14, 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 #
P140070	5	N	N	N	N	N	N	10	N	N	N	N	.02	26
P140080	7	N	N	N	N	N	N	10	N	N	N	20	.01	26
P140090	10	N	N	N	N	N	N	30	N	N	<200	10	.04	26
P140100	7	N	N	N	N	N	N	10	N	N	N	<10	.02	26
P140110	<5	N	N	N	N	N	N	<10	N	N	200	10	<.01	26
P140120	5	N	N	N	N	N	N	50	N	N	N	15	.13	26
P140130	15	N	N	N	N	N	N	30	N	N	N	15	.08	26
P140140	10	N	N	N	N	N	N	30	N	N	N	15	.07	26
P140150	<5	N	N	N	N	N	N	15	N	N	N	<10	.02	26
P140160	15	N	N	N	N	N	N	50	N	N	N	70	.12	26
P140170	10	N	N	N	N	N	N	20	N	N	N	<10	.02	26
P140180	7	N	N	N	N	N	N	15	N	N	N	15	.02	26
P140190	10	N	N	N	N	N	N	15	N	N	N	<10	<.01	26
P140200	<5	N	N	N	N	N	N	N	N	N	N	<10	<.01	26
P140210	N	N	N	N	N	N	N	<10	N	N	N	10	<.01	26
P140220	N	N	N	N	N	N	N	N	N	N	N	N	<.01	26
P140230	N	N	N	N	N	N	N	N	N	N	N	<10	.01	26
P140240	N	N	N	N	N	N	N	N	N	N	N	15	<.01	26
P140250	20	<10	N	N	N	N	N	50	N	N	<200	30	.13	26
P140260	15	N	N	N	N	N	N	10	N	N	N	<10	.01	26
P140270	15	N	N	N	N	N	N	15	N	N	N	50	.02	26
P140280	20	N	N	N	N	N	N	100	N	N	N	20	.2	26
P140290	20	20	N	N	N	5,000	N	100	N	N	N	50	.14	26
P140300	20	20	N	N	N	1,500	N	70	N	N	N	30	.14	26
P140310	20	N	N	<5	N	2,000	N	100	N	N	<200	70	.32	30
P140320	15	N	N	N	N	1,000	N	20	N	N	N	10	.06	30
P140330	15	N	N	N	N	>5,000	N	30	N	N	N	20	.09	30
P140340	<5	N	N	N	N	1,500	N	15	N	N	N	<10	.04	30
P140350	10	N	N	N	N	5,000	N	20	N	N	N	70	.08	30
P140360	5	N	N	N	N	3,000	N	15	N	N	N	15	.06	30
P140370	<5	N	N	N	N	<100	N	N	N	N	N	10	<.01	30
P140380	N	N	N	N	N	>5,000	N	N	N	N	N	10	<.01	30
P140390	N	N	N	N	N	100	N	N	N	N	N	<10	.15	30
P140400	5	N	N	N	N	700	N	10	N	N	N	50	.06	30
P140410	<5	N	N	N	N	<100	N	<10	N	N	N	20	.16	30
P140420	5	N	N	N	N	500	N	10	N	N	N	100	.17	30
P140430	<5	N	N	N	N	<100	N	N	N	N	N	10	.03	30
P140440	N	N	N	N	N	1,000	N	N	N	N	N	<10	.03	30
P140450	N	N	N	N	N	200	N	N	N	N	N	10	.08	30
P140460	5	<10	N	N	<10	N	N	15	N	N	N	50	.24	30
P140470	<5	N	N	N	N	5,000	N	10	N	N	N	30	.14	30
P140480	<5	N	N	N	N	5,000	N	10	N	N	N	10	.16	30
P140490	5	N	N	N	N	>5,000	N	15	N	N	N	70	.53	30
P140500	10	N	N	N	N	700	N	30	N	N	N	15	.28	30
P140510	7	N	N	N	N	2,000	N	20	N	N	N	30	.74	30
P140520	15	<10	N	N	N	1,500	N	50	N	N	N	100	.15	30
P140530	7	N	N	N	N	200	N	20	N	N	N	50	.06	30
P140540	5	N	N	N	N	>5,000	N	30	N	N	N	70	.06	30
P140550	<5	N	N	N	N	3,000	N	15	N	N	N	50	.03	31
P140570	20	<10	N	N	N	N	N	50	N	N	N	70	.05	31
P140580	20	20	N	N	N	1,000	N	50	N	N	N	70	.07	31
P140595	20	N	N	N	N	N	N	70	N	N	N	70	.09	31
P140600	20	<10	N	N	N	N	N	70	N	N	N	70	.12	31
P140610	15	<10	N	N	N	N	N	50	N	N	N	70	.09	31
P140620	20	<10	N	N	N	500	N	70	N	N	N	70	.09	31
P140630	20	10	N	N	N	100	N	100	N	N	N	70	.11	31
P140640	15	N	N	N	N	N	N	70	N	N	N	70	.06	31
P140650	20	<10	N	N	N	N	N	30	N	N	N	30	.08	31
P140660	15	<10	N	N	N	N	N	50	N	N	N	50	.1	31
P140670	30	<10	N	<5	N	N	N	70	N	N	N	100	.12	31

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P14, 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
P140680	37 17 38	89 34 13	.1	2	1.5	<.2	N	.3	N	N	N	70
P140690	37 17 38	89 34 13	.2	3	2	<.2	N	.5	N	N	N	100
P140700	37 17 38	89 34 13	.1	1.5	1	<.2	N	.3	N	N	N	100
P140710	37 17 38	89 34 13	N	1	.3	N	N	.07	N	N	N	15
P140720	37 17 38	89 34 13	N	.1	<.02	N	N	.005	N	N	N	N
P140730	37 17 38	89 34 13	N	.05	<.02	N	N	.003	N	N	N	N
P140740	37 17 38	89 34 13	N	.15	<.02	N	N	.002	N	N	N	N
P140750	37 17 38	89 34 13	N	.05	<.02	N	N	.003	N	N	N	N
P140560	37 17 38	89 34 13	.2	5	5	.2	N	.5	N	N	N	150

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
P140680	200	<1	N	N	10	30	15	20	N	N	30	<5	N
P140690	500	<1	N	N	15	50	30	30	N	N	50	7	N
P140700	150	<1	N	N	<10	20	10	15	N	N	15	<5	N
P140710	70	N	N	N	N	<10	7	N	N	N	<10	<5	N
P140720	<20	N	N	N	N	N	N	N	N	N	N	N	N
P140730	<20	N	N	N	N	N	N	N	N	N	N	N	N
P140740	N	N	N	N	N	N	N	N	N	N	N	N	N
P140750	<20	N	N	N	N	N	N	N	N	N	N	N	N
P140560	300	N	N	N	<10	50	50	30	N	N	50	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 #
P140680	20	<10	N	<5	N	<100	N	70	N	N	N	70	.11	31
P140690	30	<10	N	<5	N	150	N	100	N	N	N	150	.11	31
P140700	15	<10	N	<5	N	N	N	70	N	N	N	100	.11	31
P140710	10	N	N	N	N	N	N	20	N	N	N	50	.04	31
P140720	N	N	N	N	N	N	N	N	N	N	N	50	.01	32
P140730	<5	N	N	N	N	N	N	N	N	N	N	10	.01	32
P140740	<5	N	N	N	N	N	N	N	N	N	N	10	<.01	32
P140750	N	N	N	N	N	N	N	N	N	N	N	50	<.01	32
P140560	20	<10	N	<5	N	300	N	150	N	N	N	100	.16	32

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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
P150027	37 23 23	89 29 27	.1	1.5	.5	<.2	N	.5	N
P150040	37 23 23	89 29 27	.3	2	1	.5	N	.3	N
P150050	37 23 23	89 29 27	.5	2	1.5	.2	N	.5	N
P150060	37 23 23	89 29 27	.2	2	1	.3	N	.5	N
P150070	37 23 23	89 29 27	.3	2	1	.3	N	.5	N
P150080	37 23 23	89 29 27	1.5	15	.7	.2	.2	.2	N
P150090	37 23 23	89 29 27	.7	10	.15	N	.2	.07	N
P150100	37 23 23	89 29 27	1	15	.2	N	.2	.05	N
P150110	37 23 23	89 29 27	.07	20	.3	N	N	.1	N
P150120	37 23 23	89 29 27	.05	15	.2	N	N	.1	N
P150130	37 23 23	89 29 27	.05	10	.2	N	N	.07	N
P150140	37 23 23	89 29 27	.15	20	.7	<.2	N	.2	N
P150150	37 23 23	89 29 27	.05	10	.5	N	N	.15	N
P150160	37 23 23	89 29 27	.07	15	.5	<.2	N	.2	N
P150170	37 23 23	89 29 27	.1	7	.7	<.2	N	.3	N
P150180	37 23 23	89 29 27	<.05	10	.3	<.2	N	.15	N
P150190	37 23 23	89 29 27	.2	15	1	.2	N	.3	N
P150200	37 23 23	89 29 27	.05	10	1	.2	N	.5	1.5
P150210	37 23 23	89 29 27	.1	10	.7	.3	N	.3	N
P150220	37 23 23	89 29 27	.15	5	1.5	<.2	N	.2	N
P150230	37 23 23	89 29 27	.7	2	1.5	.2	N	.2	N
P150240	37 23 23	89 29 27	.2	1.5	.7	.5	N	.1	N
P150250	37 23 23	89 29 27	.3	.7	.2	N	N	.02	N
P150260	37 23 23	89 29 27	1.5	1	1	<.2	N	.07	N
P150270	37 23 23	89 29 27	1	.7	.7	N	N	.05	N
P150280	37 23 23	89 29 27	1.5	1	1	N	N	.07	N
P150290	37 23 23	89 29 27	2	1	.7	N	N	.07	N
P150300	37 23 23	89 29 27	1	1.5	.7	N	N	.1	N
P150310	37 23 23	89 29 27	1.5	.5	.3	N	N	.03	N
P150320	37 23 23	89 29 27	.2	1	.5	N	N	.05	N
P150330	37 23 23	89 29 27	.2	1	1	N	N	.07	N
P150340	37 23 23	89 29 27	.15	2	.3	N	N	.15	N
P150350	37 23 23	89 29 27	.5	.7	.2	N	N	.05	1.5
P150360	37 23 23	89 29 27	1	1.5	1	<.2	N	.1	N
P150370	37 23 23	89 29 27	.3	5	.2	.2	N	.15	N
P150380	37 23 23	89 29 27	.15	3	.3	.5	N	.15	N
P150390	37 23 23	89 29 27	.2	1	.5	N	N	.07	N
P150400	37 23 23	89 29 27	.2	5	.7	<.2	N	.2	N
P150410	37 23 23	89 29 27	2	5	1.5	.3	N	.3	N
P150420	37 23 23	89 29 27	.7	2	2	.5	N	.3	N
P150430	37 23 23	89 29 27	.7	5	3	.3	N	.5	N
P150440	37 23 23	89 29 27	1	5	3	.2	N	.3	N
P150450	37 23 23	89 29 27	.15	10	1.5	.5	N	.2	1
P150460	37 23 23	89 29 27	.2	7	1	.3	N	.2	<.5
P150470	37 23 23	89 29 27	.15	.5	.1	N	N	.03	5
P150480	37 23 23	89 29 27	2	1	.7	N	N	.03	N
P150490	37 23 23	89 29 27	.2	.15	.1	N	N	.003	N
P150500	37 23 23	89 29 27	.15	1.5	.02	N	N	.007	N
P150510	37 23 23	89 29 27	1	1	.7	<.2	N	.05	N
P150520	37 23 23	89 29 27	1.5	7	.2	<.2	N	.05	N
P150530	37 23 23	89 29 27	2	1.5	1.5	<.2	N	.07	N
P150540	37 23 23	89 29 27	3	5	3	.2	N	.1	N
P150550	37 23 23	89 29 27	3	1	3	N	N	.15	.7
P150560	37 23 23	89 29 27	3	1.5	2	<.2	N	.2	N
P150570	37 23 23	89 29 27	3	1.5	3	.5	N	.15	N
P150580	37 23 23	89 29 27	3	2	3	.3	N	.2	N
P150590	37 23 23	89 29 27	3	2	5	.3	N	.15	N
P150600	37 23 23	89 29 27	2	2	2	1	N	.2	<.5
P150610	37 23 23	89 29 27	.5	1.5	2	N	N	.1	N
P150620	37 23 23	89 29 27	.2	2	3	<.2	N	.15	N

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	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
P150027	N	N	50	200	<1	N	N	<10	15	20
P150040	N	N	70	300	1	N	N	<10	20	15
P150050	N	N	100	500	1.5	N	N	10	20	20
P150060	N	N	70	300	1.5	N	N	10	30	10
P150070	N	N	100	500	1.5	N	N	<10	20	20
P150080	N	N	30	1,000	2	N	N	15	30	50
P150090	N	N	15	1,000	5	N	N	10	10	30
P150100	N	N	10	300	3	N	N	15	10	30
P150110	N	N	15	700	5	N	N	15	20	30
P150120	N	N	20	300	5	N	N	15	15	30
P150130	N	N	15	200	3	N	N	10	<10	15
P150140	N	N	20	1,000	5	N	N	50	20	50
P150150	N	N	30	300	2	N	N	15	10	30
P150160	N	N	50	500	3	N	N	15	15	50
P150170	N	N	50	300	1.5	N	N	N	20	20
P150180	N	N	20	200	1	N	N	10	10	20
P150190	N	N	50	700	3	N	N	20	20	50
P150200	N	N	70	300	1.5	N	N	10	30	30
P150210	N	N	50	300	1.5	N	N	<10	20	15
P150220	N	N	70	200	1	N	N	N	30	20
P150230	N	N	70	200	1	N	N	<10	50	7
P150240	N	N	50	150	<1	N	N	N	20	7
P150250	N	N	15	50	N	N	N	N	N	<5
P150260	N	N	30	700	N	N	N	N	N	<5
P150270	N	N	20	150	N	N	N	N	N	<5
P150280	N	N	30	200	N	N	N	N	N	5
P150290	N	N	30	70	N	N	N	N	<10	5
P150300	N	N	50	70	N	N	N	N	<10	10
P150310	N	N	20	700	N	N	N	N	N	10
P150320	N	N	20	50	N	N	N	N	N	<5
P150330	N	N	50	50	<1	N	N	N	N	5
P150340	N	N	30	100	N	N	N	N	30	100
P150350	N	N	20	50	N	20	N	N	N	20
P150360	N	N	20	150	N	N	N	N	10	20
P150370	N	N	50	1,500	N	N	N	N	15	20
P150380	N	N	20	50	N	N	N	N	15	10
P150390	N	N	30	50	N	N	N	N	<10	5
P150400	N	N	50	200	N	N	N	N	70	70
P150410	N	N	50	300	<1	N	N	<10	100	30
P150420	N	N	70	300	<1	N	N	<10	50	20
P150430	N	N	100	300	<1	N	N	<10	30	20
P150440	N	N	70	300	<1	N	N	<10	50	20
P150450	N	N	50	1,500	<1	N	N	<10	700	50
P150460	N	N	70	3,000	<1	N	N	<10	30	20
P150470	N	N	20	20	N	50	N	N	N	30
P150480	N	N	20	<20	N	N	N	N	N	<5
P150490	N	N	15	<20	N	N	N	N	N	5
P150500	N	N	10	20	N	N	N	<10	N	<5
P150510	N	N	15	100	N	N	N	N	10	20
P150520	N	N	15	3,000	<1	N	N	30	50	10
P150530	N	N	20	700	N	N	N	N	10	7
P150540	N	N	20	150	N	N	N	<10	30	15
P150550	N	N	70	30	1.5	10	N	N	<10	7
P150560	N	N	100	300	1	N	N	<10	15	5
P150570	N	N	50	100	<1	N	N	N	20	5
P150580	N	N	70	300	<1	N	N	10	50	10
P150590	N	N	50	200	1	N	N	<10	50	10
P150600	N	N	70	500	1	N	N	10	70	30
P150610	N	N	100	70	1	N	N	N	15	15
P150620	N	N	100	1,000	<1	N	N	10	20	30

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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
P150027	10	N	N	50	<5	N	20	10	N	N
P150040	30	N	N	150	<5	N	15	10	N	<5
P150050	50	N	<50	300	N	N	20	10	N	5
P150060	30	N	<50	150	N	N	20	<10	N	5
P150070	30	N	<50	150	N	N	20	10	N	5
P150080	10	N	N	1,500	N	N	50	30	N	<5
P150090	N	N	N	2,000	N	N	30	20	N	N
P150100	N	N	N	700	N	N	50	100	N	N
P150110	N	N	N	1,000	N	N	70	20	N	<5
P150120	N	N	N	500	N	N	70	10	N	<5
P150130	N	N	N	300	N	N	50	150	N	N
P150140	N	N	50	1,500	N	N	150	1,000	N	5
P150150	<5	N	N	700	N	N	50	15	N	<5
P150160	N	N	N	700	N	N	70	50	N	<5
P150170	20	N	N	500	N	N	20	10	N	<5
P150180	<5	N	N	300	N	N	30	100	N	N
P150190	<5	N	N	1,000	N	N	70	15	N	<5
P150200	50	N	<50	500	N	N	20	>20,000	3,000	5
P150210	30	N	<50	500	N	70	30	70	N	<5
P150220	50	N	N	200	<5	N	15	15	N	N
P150230	50	N	N	50	N	N	20	15	N	<5
P150240	30	N	N	30	N	N	15	<10	N	N
P150250	N	N	N	<10	N	N	<5	N	N	N
P150260	15	N	N	10	N	N	N	300	N	N
P150270	<5	N	N	10	N	N	<5	N	N	N
P150280	7	N	N	150	N	N	5	15	N	N
P150290	<5	N	N	15	N	N	7	<10	N	N
P150300	10	N	N	10	N	N	10	15	N	N
P150310	N	N	N	<10	N	N	N	200	N	N
P150320	N	N	N	10	N	N	N	<10	N	N
P150330	15	N	N	15	N	N	N	500	N	N
P150340	5	N	N	50	5	N	10	15	N	N
P150350	N	N	N	<10	N	N	N	20,000	5,000	N
P150360	7	N	N	30	N	N	10	5,000	500	N
P150370	7	N	N	50	N	N	30	100	N	N
P150380	7	N	N	20	N	N	20	300	N	N
P150390	<5	N	N	30	N	N	<5	500	N	N
P150400	15	N	N	200	7	N	30	150	N	N
P150410	50	N	N	300	<5	N	30	15	N	<5
P150420	50	N	N	150	N	N	20	70	N	<5
P150430	70	N	<50	150	N	<20	20	20	N	<5
P150440	50	N	N	150	N	N	20	70	N	<5
P150450	70	N	N	500	<5	N	30	>20,000	5,000	<5
P150460	30	N	N	200	N	<20	30	10,000	1,000	<5
P150470	N	N	N	10	N	N	<5	>20,000	>10,000	N
P150480	<5	N	N	15	N	N	<5	1,000	150	N
P150490	N	N	N	<10	N	N	N	150	N	N
P150500	N	N	N	300	N	N	10	30	N	N
P150510	5	N	N	50	N	N	10	15	N	N
P150520	10	N	<50	>5,000	N	N	30	20	N	N
P150530	<5	N	N	70	N	N	15	200	N	N
P150540	20	N	N	300	<5	<20	20	70	N	N
P150550	30	N	<50	50	<5	N	5	>20,000	3,000	<5
P150560	20	N	N	100	N	N	15	100	N	<5
P150570	20	N	N	100	N	N	15	30	N	N
P150580	50	N	N	150	<5	N	20	20	N	<5
P150590	30	N	N	150	N	N	15	20	N	<5
P150600	70	N	N	150	N	N	30	15,000	1,000	<5
P150610	30	N	<50	50	N	N	10	700	N	N
P150620	20	N	N	70	N	N	20	2,000	300	<5

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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 #
P150027	N	N	N	50	N	<10	200	200	.04	22
P150040	N	N	N	70	N	N	N	70	.1	22
P150050	N	N	N	100	N	<10	N	100	.1	22
P150060	N	N	N	100	N	N	N	100	.1	22
P150070	N	N	N	100	N	<10	N	100	.13	22
P150080	N	N	N	100	N	15	<200	30	.29	24
P150090	N	N	N	100	N	<10	N	20	.27	24
P150100	N	N	N	70	N	10	<200	20	.29	25
P150110	N	N	N	100	N	N	200	70	.1	25
P150120	N	N	N	100	N	N	200	50	.11	25
P150130	N	N	N	30	N	N	N	70	.1	25
P150140	100	N	N	100	N	10	N	70	.13	25
P150150	N	N	N	70	N	N	N	70	.08	25
P150160	N	N	N	100	N	N	N	70	.08	25
P150170	N	N	N	70	N	N	N	100	.12	25
P150180	N	N	N	50	N	N	N	70	.08	25
P150190	N	N	N	100	N	<10	<200	100	.14	25
P150200	1,000	N	N	100	N	N	N	100	.08	25
P150210	N	N	N	100	N	N	N	70	.1	25
P150220	N	N	N	70	N	N	N	70	.18	25
P150230	N	N	N	70	N	N	N	100	.17	25
P150240	N	N	N	20	N	N	N	50	.09	25
P150250	N	N	N	N	N	N	N	<10	.01	26
P150260	<10	N	N	15	N	N	N	50	.15	26
P150270	N	N	N	10	N	N	N	20	.07	26
P150280	N	N	N	15	N	N	<200	50	.09	26
P150290	N	<100	N	20	N	N	N	30	.09	26
P150300	N	<100	N	20	N	N	N	30	.09	26
P150310	N	<100	N	10	N	N	N	15	.03	26
P150320	N	N	N	<10	N	N	N	30	.08	26
P150330	<10	N	N	15	N	N	N	70	.21	26
P150340	N	N	N	20	<20	N	N	30	.09	26
P150350	300	N	N	<10	N	N	N	<10	.03	26
P150360	100	N	N	30	N	N	N	20	.06	26
P150370	N	N	N	30	N	N	N	15	.43	26
P150380	<10	N	N	20	N	N	<200	20	.14	26
P150390	<10	N	N	10	N	N	N	20	.11	26
P150400	N	N	N	50	N	N	N	70	.24	26
P150410	N	N	N	100	N	N	N	70	2.31	26
P150420	N	N	N	70	N	N	N	70	.29	26
P150430	N	N	N	70	N	N	N	70	.29	26
P150440	N	N	N	50	N	N	N	70	.27	26
P150450	300	N	N	50	N	N	500	70	.28	26
P150460	70	N	N	50	N	N	N	70	.25	26
P150470	>1,000	N	N	<10	N	N	N	<10	.07	26
P150480	<10	N	N	10	N	N	N	30	.09	26
P150490	N	N	N	N	N	N	N	N	.05	26
P150500	N	N	N	15	N	N	N	N	.19	26
P150510	N	N	N	15	N	N	200	30	.43	26
P150520	N	100	N	100	N	<10	N	70	1.43	26
P150530	N	N	N	15	N	N	N	15	.39	26
P150540	N	<100	N	20	N	N	N	20	.66	26
P150550	200	N	N	20	N	<10	N	70	.43	26
P150560	N	<100	N	70	N	N	N	50	.51	26
P150570	N	N	N	20	N	N	N	20	.79	26
P150580	N	N	N	50	N	N	N	30	.64	26
P150590	N	<100	N	50	N	N	N	30	.26	26
P150600	100	N	N	100	N	N	N	50	.21	26
P150610	N	N	N	20	N	N	N	70	.43	26
P150620	30	N	N	70	N	N	N	50	.43	26

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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
P150630	37 23 23	89 29 27	1	2	3	N	N	.2	N
P150640	37 23 23	89 29 27	.15	2	5	<.2	N	.2	N
P150650	37 23 23	89 29 27	.15	2	2	<.2	N	.2	N
P150660	37 23 23	89 29 27	.2	3	2	<.2	N	.3	N
P150670	37 23 23	89 29 27	1.5	5	2	.3	N	.3	N
P150680	37 23 23	89 29 27	.1	1.5	3	N	N	.15	N
P150690	37 23 23	89 29 27	.2	2	2	N	N	.2	N
P150700	37 23 23	89 29 27	.2	1.5	1	N	N	.05	50
P150710	37 23 23	89 29 27	.07	1	2	N	N	.1	N
P150720	37 23 23	89 29 27	.3	2	2	N	N	.15	N
P150730	37 23 23	89 29 27	1	5	3	.5	N	.3	N
P150740	37 23 23	89 29 27	.2	5	1.5	.3	N	.15	N
P150750	37 23 23	89 29 27	1.5	3	2	.2	N	.2	N
P150760	37 23 23	89 29 27	1.5	2	.7	N	N	.05	N
P150770	37 23 23	89 29 27	1	3	2	1	N	.2	N
P150780	37 23 23	89 29 27	.3	5	2	1	N	.3	N
P150790	37 23 23	89 29 27	.3	2	2	.3	N	.5	N
P150800	37 23 23	89 29 27	1	5	2	.3	N	.3	N
P150810	37 23 23	89 29 27	2	2	3	.3	N	.2	N
P150820	37 23 23	89 29 27	.7	3	2	.2	N	.3	N
P150830	37 23 23	89 29 27	.2	5	2	.3	N	.5	N
P150840	37 23 23	89 29 27	.7	7	2	.2	N	.3	N
P150850	37 23 23	89 29 27	1	7	1.5	<.2	N	.2	N
P150855	37 23 23	89 29 27	2	1	3	N	N	.1	N
P150870	37 23 23	89 29 27	.3	10	1	.3	N	.5	2
P150880	37 23 23	89 29 27	2	7	1	.3	N	.3	N
P150890	37 23 23	89 29 27	2	1.5	.3	N	N	.05	1.5
P150900	37 23 23	89 29 27	1.5	1.5	1	<.2	N	.15	2
P150910	37 23 23	89 29 27	1	5	1.5	.5	N	.2	N
P150920	37 23 23	89 29 27	10	3	.7	.5	N	.1	.5
P150930	37 23 23	89 29 27	3	1.5	2	.2	N	.5	N
P150940	37 23 23	89 29 27	.3	3	3	.2	N	.3	N
P150950	37 23 23	89 29 27	3	1.5	2	<.2	N	.15	N
P150960	37 23 23	89 29 27	7	1	1.5	N	N	.07	N
P150970	37 23 23	89 29 27	1	2	5	.3	N	.5	N
P150980	37 23 23	89 29 27	.3	2	3	.2	N	.5	1.5
P150990	37 23 23	89 29 27	3	1.5	3	.2	N	.2	N
P150995	37 23 23	89 29 27	.07	1.5	1.5	.3	N	.2	N
P151000	37 23 23	89 29 27	.07	.15	.15	N	N	.02	N
P151020	37 23 23	89 29 27	1.5	2	2	.2	N	.2	.5
P151030	37 23 23	89 29 27	2	1	1.5	N	N	.2	N
P151040	37 23 23	89 29 27	.2	2	2	.3	N	.2	N
P151050	37 23 23	89 29 27	.15	3	2	<.2	N	.5	N
P151060	37 23 23	89 29 27	.2	2	2	.3	N	.3	N
P151070	37 23 23	89 29 27	.3	5	2	.2	N	.5	N
P151080	37 23 23	89 29 27	.3	2	3	<.2	N	.3	N
P151090	37 23 23	89 29 27	.5	5	3	N	N	.3	N
P151100	37 23 23	89 29 27	.15	2	5	<.2	N	.2	N
P151110	37 23 23	89 29 27	1.5	3	2	.3	N	.3	N
P151120	37 23 23	89 29 27	.15	10	3	.2	N	.2	N
P151130	37 23 23	89 29 27	.1	5	1.5	<.2	N	.2	N
P151140	37 23 23	89 29 27	.15	7	2	<.2	N	.2	N
P151145	37 23 23	89 29 27	.15	3	3	N	N	.3	N
P151160	37 23 23	89 29 27	.15	5	1.5	.2	N	.3	N
P151170	37 23 23	89 29 27	.2	5	2	.2	N	.5	N
P151175	37 23 23	89 29 27	.1	7	1.5	<.2	N	.5	N
P151190	37 23 23	89 29 27	.7	10	2	.3	N	.5	N
P151200	37 23 23	89 29 27	<.05	2	.7	N	N	.1	N
P151210	37 23 23	89 29 27	N	.15	.02	N	N	.005	N
P151220	37 23 23	89 29 27	N	.1	<.02	N	N	.005	N

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	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
P150630	N	N	150	200	1	N	N	<10	50	15
P150640	N	N	100	300	1	N	N	<10	30	10
P150650	N	N	70	300	<1	N	N	<10	20	20
P150660	N	N	70	700	<1	N	N	10	30	20
P150670	N	N	70	1,500	<1	N	N	10	50	30
P150680	N	N	50	50	1	N	N	N	<10	5
P150690	N	N	70	100	<1	N	N	N	10	15
P150700	N	N	20	<20	N	200	N	N	N	200
P150710	N	N	50	20	1	N	N	N	N	5
P150720	N	N	70	700	1	N	N	<10	15	10
P150730	N	N	70	1,000	<1	N	N	15	100	20
P150740	N	N	50	1,500	N	N	N	10	30	20
P150750	N	N	70	700	<1	N	N	15	70	30
P150760	N	N	15	5,000	N	N	N	N	10	7
P150770	N	N	30	1,500	N	N	N	10	30	20
P150780	N	N	50	1,500	N	N	N	15	100	30
P150790	N	N	50	3,000	<1	N	N	15	70	30
P150800	N	N	30	5,000	N	N	N	20	70	30
P150810	N	N	100	500	<1	N	N	10	30	20
P150820	N	N	70	5,000	<1	N	N	15	150	30
P150830	N	N	50	1,500	<1	N	N	15	100	50
P150840	N	N	50	1,500	<1	N	N	10	50	30
P150850	N	N	15	5,000	N	N	N	<10	30	20
P150855	N	N	10	>5,000	N	N	N	N	10	7
P150870	N	N	50	2,000	<1	10	N	15	50	200
P150880	N	N	30	2,000	<1	N	N	15	50	70
P150890	N	N	10	5,000	N	N	N	N	10	7
P150900	N	N	15	3,000	N	N	N	<10	30	15
P150910	N	N	50	2,000	<1	N	N	10	70	50
P150920	N	N	15	2,000	N	N	N	<10	15	50
P150930	N	N	70	1,500	N	N	N	10	70	100
P150940	N	N	20	5,000	<1	N	N	10	50	30
P150950	N	N	30	3,000	N	N	N	<10	20	20
P150960	N	N	20	1,500	N	N	N	N	10	10
P150970	N	N	50	2,000	<1	N	N	10	70	30
P150980	N	N	50	1,500	<1	N	N	15	70	30
P150990	N	N	20	700	N	N	N	<10	50	20
P150995	N	N	50	500	N	N	N	<10	30	15
P151000	N	N	N	30	N	N	N	N	N	N
P151020	N	N	50	700	N	<10	N	<10	20	30
P151030	N	N	30	1,500	N	N	N	N	15	20
P151040	N	N	30	1,000	N	N	N	N	20	15
P151050	N	N	30	2,000	N	N	N	<10	20	30
P151060	N	N	20	500	N	N	N	10	30	70
P151070	N	N	70	700	N	N	N	10	50	50
P151080	N	N	70	500	N	N	N	<10	15	30
P151090	N	N	100	500	N	N	N	10	20	30
P151100	N	N	100	200	<1	N	N	<10	10	15
P151110	N	N	30	500	N	N	N	10	70	30
P151120	N	N	150	300	<1	N	N	<10	10	30
P151130	N	N	20	3,000	N	N	N	10	20	30
P151140	N	N	30	200	N	N	N	50	30	70
P151145	N	N	50	200	<1	N	N	15	20	50
P151160	N	N	70	500	<1	N	N	10	30	30
P151170	N	N	150	700	<1	N	N	15	50	30
P151175	N	N	100	300	N	N	N	15	30	20
P151190	N	N	150	500	<1	N	N	15	50	30
P151200	N	N	30	50	N	N	N	N	10	7
P151210	N	N	N	20	N	N	N	N	N	N
P151220	N	N	N	N	N	N	N	N	N	N

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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
P150630	30	N	N	70	N	N	20	500	N	<5
P150640	50	N	<50	70	N	N	15	30	N	<5
P150650	30	N	N	50	<5	N	20	300	N	<5
P150660	30	N	N	100	5	N	30	50	N	<5
P150670	50	N	N	200	7	N	30	7,000	300	<5
P150680	20	N	<50	20	N	N	5	150	N	N
P150690	20	N	N	70	<5	N	10	700	200	N
P150700	10	N	N	20	<5	N	7	>20,000	>10,000	N
P150710	30	N	<50	15	N	N	N	70	N	N
P150720	20	N	N	20	<5	N	15	50	N	N
P150730	70	N	N	150	5	N	30	100	N	<5
P150740	30	N	N	100	<5	N	20	30	N	N
P150750	50	N	N	150	20	N	30	20	N	<5
P150760	<5	N	N	20	7	N	10	150	N	N
P150770	20	N	N	50	N	N	20	20	N	N
P150780	70	N	N	100	<5	N	30	30	N	5
P150790	30	N	N	100	10	N	20	15	N	<5
P150800	20	N	N	150	<5	N	30	30	N	<5
P150810	50	N	N	70	N	N	20	1,000	N	<5
P150820	30	N	N	200	7	N	30	700	<100	<5
P150830	30	N	N	300	7	N	30	300	N	<5
P150840	30	N	N	70	N	N	20	20	N	N
P150850	15	N	N	50	10	N	20	10	N	N
P150855	<5	N	N	15	N	N	7	<10	N	N
P150870	50	N	N	200	15	<20	50	>20,000	10,000	<5
P150880	30	N	N	300	20	N	50	10,000	700	<5
P150890	<5	N	N	15	5	N	10	500	N	N
P150900	15	N	N	50	<5	N	15	70	N	N
P150910	50	N	N	100	10	N	30	300	N	5
P150920	15	N	N	500	30	N	20	300	N	N
P150930	10	N	N	100	N	<20	30	5,000	N	<5
P150940	20	N	N	100	N	N	30	150	N	<5
P150950	5	N	N	70	N	N	20	100	N	N
P150960	<5	N	N	50	N	<20	10	500	N	N
P150970	20	N	N	100	N	N	30	50	N	<5
P150980	30	N	N	70	N	N	30	20	N	<5
P150990	20	N	N	50	<5	N	20	150	N	N
P150995	10	N	N	30	N	N	15	30	N	N
P151000	N	N	N	N	N	N	N	N	N	N
P151020	15	N	N	200	<5	N	20	20,000	3,000	<5
P151030	5	N	N	50	N	N	15	2,000	200	N
P151040	15	N	N	30	N	N	20	70	N	N
P151050	10	N	N	100	7	N	20	500	N	N
P151060	10	N	N	50	50	N	30	500	N	N
P151070	30	N	N	200	30	N	30	70	N	<5
P151080	20	N	N	30	5	N	20	20	N	N
P151090	30	N	N	200	50	N	30	10,000	N	N
P151100	15	N	N	150	<5	N	10	10,000	150	N
P151110	50	N	N	70	<5	N	20	2,000	N	N
P151120	50	N	N	300	<5	<20	20	500	N	N
P151130	15	N	N	70	7	N	20	100	N	N
P151140	20	N	N	500	20	N	50	100	N	N
P151145	15	N	N	300	15	N	30	20	N	N
P151160	20	N	N	200	N	N	20	150	N	N
P151170	50	N	N	300	7	N	30	15	N	N
P151175	30	N	N	300	<5	N	30	20	N	N
P151190	70	N	N	150	5	N	30	15	N	N
P151200	10	N	N	15	N	N	10	<10	N	N
P151210	N	N	N	N	N	N	N	N	N	N
P151220	N	N	N	N	N	N	N	N	N	N

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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 #
P150630	N	N	N	100	N	N	700	50	.47	26
P150640	N	<100	N	70	N	<10	N	70	.39	29
P150650	<10	N	N	50	N	N	N	70	.43	29
P150660	N	100	N	70	N	N	N	70	.95	29
P150670	50	300	N	100	N	N	N	70	3.39	29
P150680	N	100	N	20	N	<10	N	70	.51	29
P150690	30	100	N	30	N	<10	700	70	.47	29
P150700	>1,000	N	N	10	N	N	N	50	.69	29
P150710	N	100	N	15	N	<10	N	70	.38	29
P150720	N	>5,000	N	50	N	<10	N	70	.31	29
P150730	N	>5,000	N	100	N	N	N	70	.37	29
P150740	N	>5,000	N	70	N	N	N	20	.33	29
P150750	N	>5,000	N	100	N	N	N	30	.33	29
P150760	N	>5,000	N	20	N	N	N	15	.37	29
P150770	N	>5,000	N	50	N	N	N	50	.33	29
P150780	N	>5,000	N	70	N	N	N	50	.29	29
P150790	N	>5,000	N	100	N	N	N	70	.21	29
P150800	N	>5,000	N	50	N	N	N	70	.39	29
P150810	N	>5,000	N	70	N	N	N	50	.39	29
P150820	<10	>5,000	N	70	N	N	N	70	.31	29
P150830	N	>5,000	N	70	N	N	N	100	.38	29
P150840	N	>5,000	N	70	N	N	N	70	.43	29
P150850	N	>5,000	N	50	N	N	N	50	.63	30
P150855	N	>5,000	N	20	N	N	N	70	.14	30
P150870	1,000	>5,000	N	70	N	N	300	70	.61	30
P150880	500	>5,000	N	100	N	N	<200	100	2.19	30
P150890	N	>5,000	N	10	N	N	<200	70	1.59	30
P150900	N	>5,000	N	20	N	N	N	100	1.07	30
P150910	10	>5,000	N	100	N	N	700	70	.75	30
P150920	N	>5,000	N	20	N	N	700	50	.89	30
P150930	<10	>5,000	N	70	N	<10	500	1,000	.17	30
P150940	N	>5,000	N	100	N	N	500	150	.47	30
P150950	N	>5,000	N	70	N	N	<200	100	.31	30
P150960	N	>5,000	N	30	N	N	200	70	2.27	30
P150970	N	>5,000	N	70	N	N	N	150	.41	30
P150980	N	5,000	N	100	N	N	N	150	.71	30
P150990	N	3,000	N	70	N	N	N	100	.47	30
P150995	N	1,500	N	50	N	N	N	100	.25	30
P151000	N	300	N	N	N	N	N	150	.05	30
P151020	300	2,000	N	70	N	N	N	200	1.01	30
P151030	15	>5,000	N	50	N	N	N	100	.47	30
P151040	N	5,000	N	50	N	N	N	200	.18	30
P151050	N	>5,000	N	70	N	N	N	300	.09	30
P151060	N	200	N	70	N	N	N	200	.17	31
P151070	N	150	N	100	N	N	N	200	.17	31
P151080	N	100	N	70	N	N	N	100	.22	31
P151090	N	150	N	100	N	N	3,000	150	.22	31
P151100	20	100	N	70	N	N	500	70	.39	31
P151110	N	300	N	70	N	N	500	70	.24	31
P151120	N	700	N	50	N	N	200	100	.31	31
P151130	N	>5,000	N	100	N	N	N	70	.13	31
P151140	N	2,000	N	50	N	N	N	70	.17	31
P151145	N	<100	N	100	N	N	N	200	.41	31
P151160	N	100	N	30	N	N	N	70	.12	31
P151170	N	N	N	50	N	N	N	100	.12	31
P151175	N	N	N	50	N	N	N	50	.09	31
P151190	N	N	N	50	N	N	N	100	.11	31
P151200	N	N	N	20	N	N	N	50	.04	31
P151210	N	N	N	N	N	N	N	10	<.01	32
P151220	N	N	N	N	N	N	N	10	<.01	32

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P15, 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
P151230	37 23 23	89 29 27	N	.07	<.02	N	N	<.002	N
P151240	37 23 23	89 29 27	N	.1	<.02	N	N	.002	N

Sample	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
P151230	N	N	N	N	N	N	N	N	N	N
P151240	N	N	N	N	N	N	N	N	N	N

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
P151230	N	N	N	N	N	N	<5	N	N	N
P151240	N	N	N	N	N	N	N	<10	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 #
P151230	N	N	N	N	N	N	N	100	.02	32
P151240	N	N	N	N	N	N	N	50	.01	32

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
			s	s	s	s	s	s	s
P160030	37 23 23	89 39 58	.3	3	.1	N	N	.03	N
P160040	37 23 23	89 39 58	.3	10	.3	N	N	.05	N
P160050	37 23 23	89 39 58	.3	7	.2	<.2	N	.07	N
P160060	37 23 23	89 39 58	.2	2	.15	N	N	.05	N
P160070	37 23 23	89 39 58	.15	10	.5	N	N	.15	N
P160080	37 23 23	89 39 58	2	5	1.5	.3	N	.3	N
P160090	37 23 23	89 39 58	10	5	2	N	N	.15	N
P160100	37 23 23	89 39 58	2	2	2	<.2	N	.2	N
P160110	37 23 23	89 39 58	.2	10	1.5	<.2	N	.2	N
P160120	37 23 23	89 39 58	.15	.5	.03	N	N	.02	<.5
P160130	37 23 23	89 39 58	1	1.5	.5	N	N	.2	<.5
P160140	37 23 23	89 39 58	1.5	1.5	.3	N	N	.15	N
P160150	37 23 23	89 39 58	.15	.1	.03	N	N	.01	<.5
P160160	37 23 23	89 39 58	.2	2	.3	N	N	.1	1
P160170	37 23 23	89 39 58	3	2	5	<.2	N	.2	N
P160180	37 23 23	89 39 58	2	5	2	.3	N	.3	N
P160190	37 23 23	89 39 58	3	10	3	.2	N	.15	N
P160200	37 23 23	89 39 58	1	15	1.5	.2	N	.2	N
P160210	37 23 23	89 39 58	.1	15	.7	<.2	N	.15	<.5
P160220	37 23 23	89 39 58	.15	2	.5	N	N	.1	N
P160230	37 23 23	89 39 58	3	2	3	.2	N	.15	<.5
P160240	37 23 23	89 39 58	1	2	2	.3	N	.5	N
P160250	37 23 23	89 39 58	.1	1.5	.5	.2	N	.1	N
P160260	37 23 23	89 39 58	.1	10	.5	<.2	N	.07	N
P160270	37 23 23	89 39 58	.07	1	.5	.3	N	.1	N
P160280	37 23 23	89 39 58	.07	1	.5	<.2	N	.15	N
P160290	37 23 23	89 39 58	.1	2	.7	.5	N	.5	N
P160300	37 23 23	89 39 58	2	2	.7	.3	N	.3	N
P160310	37 23 23	89 39 58	.1	1.5	.5	.7	N	.15	N
P160320	37 23 23	89 39 58	.2	1	.3	.3	N	.15	N
P160330	37 23 23	89 39 58	2	1	.2	.2	N	.1	N
P160340	37 23 23	89 39 58	2	1.5	.5	.2	N	2	N
P160350	37 23 23	89 39 58	.1	1	.3	.5	N	.1	N
P160360	37 23 23	89 39 58	.15	.15	.07	N	N	.02	N
P160370	37 23 23	89 39 58	.15	1	.7	.5	N	.3	N
P160380	37 23 23	89 39 58	.5	2	1	.5	N	.5	N
P160390	37 23 23	89 39 58	.05	.7	.15	N	N	.07	N
P160400	37 23 23	89 39 58	.1	1	.5	.2	N	.1	N
P160410	37 23 23	89 39 58	.07	.7	.5	.5	N	.15	N
P160420	37 23 23	89 39 58	.15	1	1	.5	N	.15	N
P160430	37 23 23	89 39 58	.2	1.5	1	.7	N	.2	N
P160440	37 23 23	89 39 58	.1	1.5	1	.5	N	.2	N
P160450	37 23 23	89 39 58	.15	2	.7	.5	N	.15	<.5
P160460	37 23 23	89 39 58	.7	2	1.5	.5	N	.2	N
P160470	37 23 23	89 39 58	.5	2	1	.5	N	.3	N
P160480	37 23 23	89 39 58	.2	1.5	1	.5	N	.15	N
P160490	37 23 23	89 39 58	.3	2	1.5	.2	N	.15	N
P160500	37 23 23	89 39 58	.5	1.5	.7	<.2	N	.15	N
P160510	37 23 23	89 39 58	.3	2	1	.2	N	.2	N
P160520	37 23 23	89 39 58	.15	1.5	.7	<.2	N	.15	N
P160530	37 23 23	89 39 58	.5	2	1.5	<.2	N	.15	N
P160540	37 23 23	89 39 58	.05	1	.2	N	N	.07	N
P160550	37 23 23	89 39 58	.07	.7	.3	N	N	.03	N
P160560	37 23 23	89 39 58	N	.5	.05	N	N	.02	N
P160570	37 23 23	89 39 58	N	.15	<.02	N	N	.01	N
P160580	37 23 23	89 39 58	N	.05	<.02	N	N	.007	N
P160590	37 23 23	89 39 58	N	<.05	N	N	N	.003	N
P160600	37 23 23	89 39 58	N	<.05	N	N	N	.003	N
P160610	37 23 23	89 39 58	N	<.05	N	N	N	.002	N
P160620	37 23 23	89 39 58	N	<.05	N	N	N	.003	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	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
P160030	N	N	20	150	N	N	N	N	10	5
P160040	N	N	30	70	1	N	N	N	70	30
P160050	N	N	30	100	N	N	N	<10	100	10
P160060	N	N	20	20	N	N	N	N	10	10
P160070	N	N	30	200	1.5	N	N	10	50	30
P160080	N	N	70	500	<1	N	N	<10	70	30
P160090	N	N	50	300	1	N	N	<10	20	30
P160100	N	N	70	500	<1	N	N	N	30	15
P160110	N	N	100	300	2	N	N	<10	20	30
P160120	N	N	20	50	N	N	N	N	N	5
P160130	N	N	30	100	<1	N	N	N	30	7
P160140	N	N	20	70	N	N	N	N	20	<5
P160150	N	N	<10	50	N	N	N	N	N	<5
P160160	N	N	30	150	N	N	N	N	15	10
P160170	N	N	100	150	<1	N	N	<10	30	15
P160180	N	N	50	200	<1	N	N	10	50	30
P160190	N	N	20	1,000	N	N	N	10	30	50
P160200	N	N	30	1,500	1.5	N	N	15	200	50
P160210	N	N	30	700	N	N	N	10	70	200
P160220	N	N	70	200	N	N	N	N	<10	20
P160230	N	N	100	300	<1	N	N	<10	20	20
P160240	N	N	100	1,500	<1	N	N	10	50	200
P160250	N	N	30	300	N	N	N	N	10	20
P160260	N	N	15	5,000	2	N	N	30	20	30
P160270	N	N	20	2,000	N	N	N	N	15	20
P160280	N	N	30	1,500	N	N	N	N	15	70
P160290	N	N	50	300	N	N	N	N	300	150
P160300	N	N	50	700	N	N	N	10	20	30
P160310	N	N	30	500	N	N	N	<10	20	30
P160320	N	N	20	3,000	N	N	N	N	15	20
P160330	N	N	20	5,000	N	N	N	N	10	20
P160340	N	N	30	>5,000	N	N	N	<10	20	15
P160350	N	N	30	>5,000	N	N	N	N	20	30
P160360	N	N	N	700	N	N	N	N	N	<5
P160370	N	N	50	>5,000	N	N	N	<10	30	15
P160380	N	N	70	5,000	N	N	N	15	30	50
P160390	N	N	15	1,000	N	N	N	N	<10	10
P160400	N	N	20	500	N	N	N	N	20	5
P160410	N	N	20	500	N	N	N	N	30	<5
P160420	N	N	20	700	N	N	N	N	300	5
P160430	N	N	70	700	N	N	N	<10	50	30
P160440	N	N	70	500	N	N	N	<10	30	20
P160450	N	N	70	500	N	N	N	<10	20	30
P160460	N	N	100	700	N	N	N	<10	50	30
P160470	N	N	100	500	N	N	N	<10	30	30
P160480	N	N	70	500	N	N	N	N	15	20
P160490	N	N	100	300	N	N	N	<10	30	20
P160500	N	N	50	300	N	N	N	<10	15	30
P160510	N	N	50	300	N	N	N	10	30	20
P160520	N	N	70	200	<1	N	N	<10	20	30
P160530	N	N	100	150	<1	N	N	10	20	20
P160540	N	N	30	70	N	N	N	N	N	7
P160550	N	N	15	50	N	N	N	N	<10	5
P160560	N	N	<10	30	N	N	N	N	N	<5
P160570	N	N	N	N	N	N	N	N	N	N
P160580	N	N	N	<20	N	N	N	N	N	N
P160590	N	N	N	N	N	N	N	N	N	N
P160600	N	N	N	<20	N	N	N	N	N	N
P160610	N	N	N	N	N	N	N	N	N	N
P160620	N	N	N	<20	N	N	N	N	N	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
P160030	<5	N	N	50	N	N	10	N	N	N
P160040	15	N	N	100	N	N	15	<10	N	N
P160050	15	N	N	150	N	N	20	<10	N	N
P160060	5	N	N	100	N	N	10	20	N	N
P160070	20	N	N	200	N	N	20	1,000	100	<5
P160080	70	N	N	100	N	N	20	1,000	N	<5
P160090	30	N	N	500	N	N	20	15	N	<5
P160100	50	N	N	20	N	N	10	10	N	N
P160110	20	N	N	50	N	N	30	70	N	<5
P160120	N	N	N	<10	N	N	N	N	N	N
P160130	20	N	N	15	N	N	20	<10	N	<5
P160140	5	N	N	15	N	N	15	N	N	N
P160150	N	N	N	N	N	N	N	N	N	N
P160160	10	N	<50	50	N	N	15	N	N	N
P160170	30	N	N	50	N	N	20	<10	N	N
P160180	50	N	N	150	<5	N	30	<10	N	<5
P160190	30	N	N	30	<5	N	20	<10	N	N
P160200	70	N	N	500	<5	N	30	15	N	<5
P160210	30	N	N	300	5	N	30	10	N	N
P160220	7	N	N	70	N	N	15	N	N	N
P160230	30	N	N	200	<5	N	15	1,000	N	N
P160240	50	N	N	100	5	N	30	<10	N	<5
P160250	70	N	N	30	7	N	15	<10	N	N
P160260	20	N	N	200	<5	N	50	20	N	N
P160270	10	N	N	50	N	N	15	<10	N	N
P160280	10	N	N	70	<5	N	15	50	N	N
P160290	15	N	N	1,500	N	N	20	10	N	N
P160300	20	N	N	50	15	N	50	15	N	N
P160310	15	N	N	20	10	N	20	<10	N	N
P160320	10	N	N	50	<5	N	15	10	N	N
P160330	5	N	N	30	N	N	10	<10	N	N
P160340	20	N	N	15	N	N	15	20	N	N
P160350	5	N	N	<10	N	N	10	<10	N	N
P160360	N	N	N	N	N	N	N	N	N	N
P160370	15	N	N	10	N	<20	20	<10	N	N
P160380	30	N	N	50	N	<20	30	20	N	N
P160390	<5	N	N	<10	N	N	10	N	N	N
P160400	15	N	N	<10	N	N	10	N	N	N
P160410	10	N	N	<10	N	N	15	N	N	N
P160420	15	N	N	200	N	N	10	N	N	N
P160430	30	N	N	30	<5	N	30	20	N	N
P160440	30	N	N	15	<5	N	20	15	N	N
P160450	20	N	N	50	30	N	20	20	N	N
P160460	70	N	N	20	50	N	20	20	N	N
P160470	50	N	N	70	20	N	30	<10	N	N
P160480	30	N	N	15	20	N	15	10	N	N
P160490	50	N	N	30	<5	N	20	15	N	N
P160500	15	N	N	30	7	N	15	10	N	N
P160510	30	N	N	20	5	N	20	10	N	N
P160520	20	N	N	50	<5	N	15	15	N	N
P160530	30	N	N	70	5	N	20	15	N	N
P160540	5	N	N	15	<5	N	10	N	N	N
P160550	5	N	N	<10	<5	N	5	N	N	N
P160560	N	N	N	N	N	N	<5	N	N	N
P160570	N	N	N	N	N	N	N	N	N	N
P160580	N	N	N	N	N	N	N	N	N	N
P160590	N	N	N	N	N	N	N	N	N	N
P160600	N	N	N	N	N	N	N	N	N	N
P160610	N	N	N	N	N	N	N	N	N	N
P160620	N	N	N	N	N	N	N	N	N	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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 #
P160030	N	N	N	20	N	N	N	15	.04	26
P160040	N	N	N	150	N	<10	N	50	.02	26
P160050	N	N	N	100	N	N	N	50	.03	26
P160060	N	N	N	20	N	N	N	10	.03	26
P160070	<10	N	N	150	N	<10	N	70	.08	26
P160080	<10	N	N	100	N	N	N	70	.2	26
P160090	N	N	N	100	N	N	N	50	.22	29
P160100	N	N	N	70	N	N	N	70	.27	29
P160110	N	N	N	100	N	N	N	50	.26	29
P160120	N	N	N	<10	N	N	N	N	.01	29
P160130	N	N	N	50	N	N	N	70	.03	29
P160140	N	N	N	30	N	N	N	30	.02	29
P160150	N	N	N	N	N	N	N	N	<.01	29
P160160	N	N	N	70	N	N	N	30	.04	29
P160170	N	N	N	70	N	N	N	30	.21	29
P160180	N	N	N	100	N	N	N	30	.17	29
P160190	N	N	N	70	N	<10	N	20	.12	29
P160200	N	N	N	150	N	<10	N	50	.12	29
P160210	<10	N	N	50	N	N	N	50	.07	29
P160220	N	N	N	20	N	N	N	20	.09	29
P160230	50	<100	N	100	N	N	N	30	.13	29
P160240	N	N	N	150	N	N	N	50	.24	29
P160250	N	N	N	30	N	N	N	20	.15	29
P160260	N	<100	N	50	N	N	200	15	.11	29
P160270	N	N	N	30	N	N	N	50	.06	29
P160280	N	<100	N	30	20	N	N	100	.1	30
P160290	N	N	N	50	N	N	N	150	.08	30
P160300	N	N	N	70	N	N	N	100	2.33	30
P160310	N	N	N	50	N	N	N	200	.25	30
P160320	N	N	N	30	N	N	300	200	.44	30
P160330	N	<100	N	30	N	N	N	100	2.39	30
P160340	N	N	N	30	N	N	N	300	1.75	30
P160350	N	N	N	30	N	N	N	100	.24	30
P160360	N	N	N	N	N	N	N	50	.12	30
P160370	N	N	N	50	N	N	N	300	.22	30
P160380	N	<100	N	70	N	N	N	300	.47	30
P160390	N	N	N	20	N	N	N	150	.04	30
P160400	N	N	N	20	N	N	N	100	.15	30
P160410	N	N	N	30	N	N	N	200	.14	30
P160420	N	<100	N	20	N	N	N	200	.09	30
P160430	N	N	N	70	N	N	N	100	.12	30
P160440	N	N	N	70	N	N	N	100	.13	30
P160450	N	N	N	70	N	N	N	100	.12	31
P160460	N	N	N	70	N	N	N	100	.11	31
P160470	N	N	N	100	N	N	N	150	.11	31
P160480	N	N	N	70	N	N	N	100	.09	31
P160490	N	N	N	70	N	N	N	100	.15	31
P160500	N	N	N	70	N	N	N	100	.09	31
P160510	N	N	N	100	N	N	N	100	.11	31
P160520	N	N	N	100	N	N	N	70	.1	31
P160530	N	N	N	50	N	N	N	70	.11	31
P160540	N	N	N	20	N	N	N	70	.04	31
P160550	N	N	N	10	N	N	N	70	.03	31
P160560	N	N	N	N	N	N	N	70	.01	32
P160570	N	N	N	N	N	N	N	15	<.01	32
P160580	N	N	N	N	N	N	N	30	<.01	32
P160590	N	N	N	N	N	N	N	50	<.01	32
P160600	N	N	N	N	N	N	N	10	<.01	32
P160610	N	N	N	N	N	N	N	30	<.01	32
P160620	N	N	N	N	N	N	N	100	<.01	32

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
P160630	37 23 23	89 39 58	N	N	N	N	N	.002	N
P160640	37 23 23	89 39 58	N	N	N	N	N	.003	N
P160650	37 23 23	89 39 58	N	N	N	N	N	.003	N
P160660	37 23 23	89 39 58	N	N	N	N	N	.005	N
P160670	37 23 23	89 39 58	N	<.05	N	N	N	.002	N
P160680	37 23 23	89 39 58	N	<.05	N	N	N	.002	N
P160690	37 23 23	89 39 58	N	<.05	<.02	N	N	.005	7
P160700	37 23 23	89 39 58	N	.05	N	N	N	.003	N
P160710	37 23 23	89 39 58	N	.07	N	N	N	.003	N
P160720	37 23 23	89 39 58	N	.7	.03	N	N	.015	N
P160730	37 23 23	89 39 58	N	.2	<.02	N	N	.01	N
P160740	37 23 23	89 39 58	N	.2	<.02	N	N	.005	N
P160750	37 23 23	89 39 58	N	N	N	N	N	.003	N
P160760	37 23 23	89 39 58	N	<.05	N	N	N	.003	N
P160770	37 23 23	89 39 58	N	.1	.02	N	N	.007	N
P160780	37 23 23	89 39 58	N	.15	<.02	N	N	.007	N
P160790	37 23 23	89 39 58	N	.2	<.02	N	N	.01	N
P160800	37 23 23	89 39 58	<.05	.15	.03	N	N	.02	N
P160810	37 23 23	89 39 58	N	.2	N	N	N	.007	N
P160820	37 23 23	89 39 58	N	.3	.07	N	N	.03	N
P160830	37 23 23	89 39 58	N	.1	N	N	N	.007	N
P160840	37 23 23	89 39 58	N	.2	.02	N	N	.02	N
P160850	37 23 23	89 39 58	N	.3	<.02	N	N	.015	N
P160860	37 23 23	89 39 58	.05	1.5	.3	N	N	.07	N
P160870	37 23 23	89 39 58	.3	1	.7	N	N	.15	N
P160880	37 23 23	89 39 58	2	1	1.5	N	N	.15	N
P160890	37 23 23	89 39 58	<.05	.5	.15	N	N	.05	N
P160900	37 23 23	89 39 58	N	.15	<.02	N	N	.01	N
P160910	37 23 23	89 39 58	N	.3	N	N	N	.015	N
P160920	37 23 23	89 39 58	N	.5	.1	N	N	.05	N
P160930	37 23 23	89 39 58	N	.3	.1	N	N	.03	N
P160940	37 23 23	89 39 58	N	.1	N	N	N	.005	N
P160950	37 23 23	89 39 58	N	.2	N	N	N	.005	N
P160960	37 23 23	89 39 58	<.05	.15	.02	N	N	.01	N
P160970	37 23 23	89 39 58	N	.3	<.02	N	N	.01	N
P160980	37 23 23	89 39 58	N	.2	.05	N	N	.01	N
P160990	37 23 23	89 39 58	N	.3	.05	N	N	.01	N
P161000	37 23 23	89 39 58	N	.3	.02	N	N	.007	N
P161010	37 23 23	89 39 58	N	1	.07	N	N	.02	N
P161020	37 23 23	89 39 58	.15	.7	.5	N	N	.05	N
P161030	37 23 23	89 39 58	<.05	1	.15	N	N	.05	N
P161040	37 23 23	89 39 58	.1	2	1	N	N	.1	N
P161050	37 23 23	89 39 58	.07	1	.2	N	N	.05	N
P161060	37 23 23	89 39 58	<.05	1.5	.1	N	N	.02	N
P161070	37 23 23	89 39 58	.05	1	.3	N	N	.07	N
P161080	37 23 23	89 39 58	.1	.2	.2	N	N	.02	N
P161090	37 23 23	89 39 58	<.05	.2	.1	N	N	.015	N
P161100	37 23 23	89 39 58	.07	.3	.15	N	N	.02	N
P161110	37 23 23	89 39 58	.7	.5	.7	N	N	.03	N
P161120	37 23 23	89 39 58	.2	.3	.3	N	N	.02	N
P161130	37 23 23	89 39 58	.2	.3	.2	N	N	.02	N
P161140	37 23 23	89 39 58	15	.5	.2	N	N	.05	N
P161150	37 23 23	89 39 58	.15	.7	.3	<.2	N	.03	N
P161160	37 23 23	89 39 58	.15	.5	.5	N	N	.05	N
P161170	37 23 23	89 39 58	.2	1	.7	<.2	N	.03	N
P161180	37 23 23	89 39 58	.1	1.5	.7	.2	N	.05	N
P161190	37 23 23	89 39 58	.07	2	1.5	<.2	N	.2	<.5
P161200	37 23 23	89 39 58	.1	5	1	.2	N	.2	N
P161210	37 23 23	89 39 58	.2	.5	.15	N	N	.02	N
P161220	37 23 23	89 39 58	<.05	2	.2	N	N	.07	<.5

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	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
P160630	N	N	N	N	N	N	N	N	N	10
P160640	N	N	N	<20	N	N	N	N	N	N
P160650	N	N	N	N	N	N	N	N	N	N
P160660	N	N	N	30	N	N	N	N	N	N
P160670	N	N	N	N	N	N	N	N	N	N
P160680	N	N	N	<20	N	N	N	N	N	N
P160690	N	N	10	<20	N	N	N	N	N	<5
P160700	N	N	N	<20	N	N	N	N	N	N
P160710	N	N	N	N	N	N	N	N	N	N
P160720	N	N	<10	20	N	N	N	N	N	5
P160730	N	N	N	N	N	N	N	N	N	5
P160740	N	N	N	<20	N	N	N	N	N	<5
P160750	N	N	N	N	N	N	N	N	N	N
P160760	N	N	N	20	N	N	N	N	N	N
P160770	N	N	N	N	N	N	N	N	N	N
P160780	N	N	N	20	N	N	N	N	N	N
P160790	N	N	N	N	N	N	N	N	N	<5
P160800	N	N	<10	20	N	N	N	N	N	<5
P160810	N	N	N	N	N	N	N	N	N	N
P160820	N	N	10	30	N	N	N	N	N	<5
P160830	N	N	N	20	N	N	N	N	N	N
P160840	N	N	N	30	N	N	N	N	N	<5
P160850	N	N	N	30	N	N	N	N	N	<5
P160860	N	N	20	70	N	N	N	<10	10	50
P160870	N	N	70	150	N	N	N	<10	15	50
P160880	N	N	50	150	N	N	N	<10	10	50
P160890	N	N	15	50	N	N	N	N	N	20
P160900	N	N	N	20	N	N	N	N	N	<5
P160910	N	N	N	20	N	N	N	N	N	<5
P160920	N	N	15	50	N	N	N	N	<10	10
P160930	N	N	10	70	N	N	N	N	N	<5
P160940	N	N	N	20	N	N	N	N	N	N
P160950	N	N	N	20	N	N	N	N	N	N
P160960	N	N	N	30	N	N	N	N	N	N
P160970	N	N	N	30	N	N	N	N	N	<5
P160980	N	N	15	20	N	N	N	N	N	<5
P160990	N	N	10	20	N	N	N	N	N	5
P161000	N	N	15	<20	N	N	N	N	N	<5
P161010	N	N	10	30	N	N	N	N	N	7
P161020	N	N	20	70	N	N	N	N	<10	7
P161030	N	N	20	70	N	N	N	N	N	20
P161040	N	N	20	200	N	N	N	N	10	20
P161050	N	N	30	100	N	N	N	N	N	7
P161060	N	N	15	500	N	N	N	N	N	10
P161070	N	N	20	1,000	N	N	N	N	<10	10
P161080	N	N	20	150	N	N	N	N	N	<5
P161090	N	N	15	150	N	N	N	N	N	<5
P161100	N	N	20	700	N	N	N	N	N	5
P161110	N	N	30	300	N	N	N	N	20	<5
P161120	N	N	30	100	N	N	N	N	N	15
P161130	N	N	20	150	N	N	N	N	N	15
P161140	N	N	20	100	N	N	N	N	N	10
P161150	N	N	50	100	N	N	N	N	<10	15
P161160	N	N	30	70	N	N	N	N	<10	20
P161170	N	N	20	70	N	N	N	N	<10	30
P161180	N	N	50	50	N	N	N	N	10	20
P161190	N	N	100	300	<1	N	N	<10	30	70
P161200	N	N	70	300	<1	N	N	10	30	50
P161210	N	N	50	30	N	N	N	N	N	7
P161220	N	N	20	150	N	N	N	N	<10	30

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
P160630	N	N	N	N	N	N	N	N	N	N
P160640	N	N	N	N	N	N	N	N	N	N
P160650	N	N	N	N	N	N	N	N	N	N
P160660	N	N	N	N	N	N	N	N	N	N
P160670	N	N	N	N	N	N	N	N	N	N
P160680	N	N	N	N	N	N	N	N	N	N
P160690	N	N	N	N	N	N	N	N	N	N
P160700	N	N	N	N	N	N	N	N	N	N
P160710	N	N	N	N	N	N	N	N	N	N
P160720	N	N	N	<10	N	N	5	N	N	N
P160730	N	N	N	N	N	N	<5	N	N	N
P160740	N	N	N	N	N	N	N	N	N	N
P160750	N	N	N	N	N	N	N	N	N	N
P160760	N	N	N	N	N	N	N	N	N	N
P160770	N	N	N	N	N	N	N	N	N	N
P160780	N	N	N	N	N	N	N	N	N	N
P160790	N	N	N	<10	N	N	<5	N	N	N
P160800	N	N	N	N	N	N	N	N	N	N
P160810	N	N	N	N	N	N	N	N	N	N
P160820	N	N	N	<10	N	N	<5	N	N	N
P160830	N	N	N	N	N	N	N	N	N	N
P160840	N	N	N	<10	N	N	N	N	N	N
P160850	N	N	N	N	N	N	N	N	N	N
P160860	<5	N	N	10	15	N	10	20	N	N
P160870	5	N	N	15	20	N	20	20	N	N
P160880	5	N	N	20	30	N	20	30	N	N
P160890	N	N	N	<10	15	N	7	N	N	N
P160900	N	N	N	N	N	N	N	N	N	N
P160910	N	N	N	<10	<5	N	N	N	N	N
P160920	N	N	N	N	15	N	7	<10	N	N
P160930	N	N	N	N	7	N	<5	N	N	N
P160940	N	N	N	N	N	N	N	N	N	N
P160950	N	N	N	N	N	N	N	N	N	N
P160960	N	N	N	N	N	N	N	N	N	N
P160970	N	N	N	N	N	N	N	N	N	N
P160980	N	N	N	N	N	N	<5	N	N	N
P160990	N	N	N	N	N	N	5	N	N	N
P161000	N	N	N	N	N	N	<5	N	N	N
P161010	N	N	N	N	N	N	7	N	N	N
P161020	N	N	N	N	N	N	5	N	N	N
P161030	N	N	N	<10	N	N	10	N	N	N
P161040	7	N	N	10	<5	N	15	<10	N	N
P161050	N	N	N	<10	N	N	7	N	N	N
P161060	N	N	N	N	N	N	5	N	N	N
P161070	<5	N	N	<10	N	N	10	N	N	N
P161080	N	N	N	N	N	N	<5	N	N	N
P161090	N	N	N	N	N	N	N	N	N	N
P161100	N	N	N	<10	N	N	N	N	N	N
P161110	N	N	N	<10	5	N	<5	N	N	N
P161120	N	N	N	N	7	N	<5	N	N	N
P161130	N	N	N	N	5	N	<5	N	N	N
P161140	N	N	N	N	N	N	7	N	N	N
P161150	5	N	N	<10	N	N	5	N	N	N
P161160	5	N	N	N	N	N	<5	<10	N	N
P161170	<5	N	N	N	7	N	10	<10	N	N
P161180	10	N	N	<10	N	N	5	10	N	N
P161190	20	N	N	10	10	N	20	100	N	N
P161200	15	N	N	70	5	N	30	20	N	N
P161210	N	N	N	<10	<5	N	7	N	N	N
P161220	5	N	N	<10	<5	N	15	15	N	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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 #
P160630	N	N	N	N	N	N	N	100	.01	32
P160640	N	N	N	N	N	N	N	10	<.01	32
P160650	N	N	N	N	N	N	N	30	<.01	32
P160660	N	N	N	N	N	N	N	100	<.01	32
P160670	N	N	N	N	N	N	N	70	<.01	32
P160680	N	N	N	N	N	N	N	30	<.01	32
P160690	N	N	N	N	N	N	N	15	<.01	32
P160700	N	N	N	N	N	N	N	20	<.01	32
P160710	N	N	N	N	N	N	N	50	<.01	43
P160720	N	N	N	<10	N	N	N	30	<.01	43
P160730	N	N	N	N	N	N	N	10	<.01	43
P160740	N	N	N	N	N	N	N	50	<.01	43
P160750	N	N	N	N	N	N	N	20	<.01	43
P160760	N	N	N	N	N	N	N	10	<.01	43
P160770	N	N	N	N	N	N	N	15	<.01	43
P160780	N	N	N	N	N	N	N	70	<.01	43
P160790	N	N	N	N	N	N	N	50	<.01	43
P160800	N	N	N	<10	N	N	N	50	<.01	43
P160810	N	N	N	N	N	N	N	30	<.01	43
P160820	N	N	N	10	N	N	N	70	<.01	43
P160830	N	N	N	N	N	N	N	70	<.01	43
P160840	N	N	N	N	N	N	N	100	<.01	43
P160850	N	N	N	<10	N	N	N	70	<.01	43
P160860	N	N	N	30	N	N	300	50	.03	43
P160870	N	N	N	100	N	N	N	70	.09	43
P160880	N	N	N	70	N	N	N	70	.07	43
P160890	N	N	N	20	N	N	N	50	.02	43
P160900	N	N	N	N	N	N	N	20	<.01	43
P160910	N	N	N	N	N	N	N	15	<.01	43
P160920	N	N	N	20	N	N	N	30	.02	43
P160930	N	N	N	10	N	N	N	50	.02	43
P160940	N	N	N	N	N	N	N	100	<.01	43
P160950	N	N	N	N	N	N	N	70	<.01	43
P160960	N	N	N	N	N	N	N	150	<.01	43
P160970	N	N	N	N	N	N	N	15	<.01	51
P160980	N	N	N	10	N	N	N	30	.01	51
P160990	N	N	N	10	N	N	N	N	<.01	51
P161000	N	N	N	<10	N	N	N	<10	<.01	51
P161010	N	N	N	10	N	N	N	50	<.01	51
P161020	N	N	N	20	N	N	N	70	.02	51
P161030	N	N	N	20	N	N	N	50	.02	51
P161040	N	N	N	30	N	N	N	70	.07	51
P161050	N	<100	N	15	N	N	N	50	.03	51
P161060	N	<100	N	10	N	N	N	30	.01	51
P161070	N	<100	N	20	N	N	N	50	.04	51
P161080	N	<100	N	10	N	N	N	10	.01	51
P161090	N	N	N	N	N	N	N	<10	<.01	51
P161100	N	500	N	N	N	N	N	10	.01	51
P161110	N	<100	N	10	N	N	N	70	.02	51
P161120	N	N	N	10	N	N	N	10	.02	51
P161130	N	N	N	15	N	N	N	15	.02	51
P161140	N	N	N	20	N	N	N	50	.04	51
P161150	N	N	N	20	N	N	N	20	.04	51
P161160	N	<100	N	20	N	N	N	70	.05	51
P161170	N	N	N	20	N	N	N	10	.04	51
P161180	N	N	N	20	N	N	N	30	.07	51
P161190	N	N	N	50	N	N	N	70	.13	51
P161200	N	N	N	30	N	N	N	70	.11	51
P161210	N	N	N	10	N	N	N	100	.02	51
P161220	N	N	N	20	N	N	N	70	.03	51

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
			s	s	s	s	s	s	s
P161230	37 23 23	89 39 58	.5	1	.5	N	N	.1	N
P161240	37 23 23	89 39 58	.07	.3	.1	N	N	.02	N
P161250	37 23 23	89 39 58	.7	1.5	1	N	N	.07	N
P161260	37 23 23	89 39 58	.1	1	.2	N	N	.05	.7
P161270	37 23 23	89 39 58	.07	.7	.3	N	N	.05	.5
P161280	37 23 23	89 39 58	.2	1	.5	N	N	.03	N
P161290	37 23 23	89 39 58	.2	5	.7	<.2	N	.07	N
P161300	37 23 23	89 39 58	.15	1.5	.3	N	N	.1	N
P161310	37 23 23	89 39 58	.3	1	.7	N	N	.07	N
P161320	37 23 23	89 39 58	.5	.5	.5	N	N	.05	N
P161330	37 23 23	89 39 58	.15	.7	.3	N	N	.03	N
P161340	37 23 23	89 39 58	.1	2	.2	N	N	.05	N
P161350	37 23 23	89 39 58	<.05	1.5	.03	N	N	.01	<.5
P161360	37 23 23	89 39 58	.05	.3	.03	N	N	.007	N
P161370	37 23 23	89 39 58	.2	2	.5	N	N	.05	N
P161380	37 23 23	89 39 58	N	3	.05	N	N	.02	N
P161390	37 23 23	89 39 58	.15	5	.5	N	N	.05	N
P161400	37 23 23	89 39 58	.07	5	.7	<.2	N	.3	N
P161410	37 23 23	89 39 58	.05	7	.5	.3	N	.15	<.5
P161420	37 23 23	89 39 58	<.05	7	.2	N	N	.2	<.5
P161430	37 23 23	89 39 58	<.05	10	.7	.2	N	.2	<.5
P161440	37 23 23	89 39 58	<.05	2	.05	N	N	.03	N
P161450	37 23 23	89 39 58	.07	1	.15	N	N	.02	N
P161460	37 23 23	89 39 58	.15	1	.2	N	N	.02	N
P161470	37 23 23	89 39 58	.1	1	.15	N	N	.03	N
P161480	37 23 23	89 39 58	<.05	.2	.07	N	N	.03	N
P161490	37 23 23	89 39 58	<.05	.7	.3	<.2	N	.05	N
P161500	37 23 23	89 39 58	.05	2	.5	.3	N	.2	N
P161510	37 23 23	89 39 58	.05	2	.5	.3	N	.2	N
P161520	37 23 23	89 39 58	<.05	1.5	.5	N	N	.15	N
P161530	37 23 23	89 39 58	.07	1	.7	<.2	N	.05	N
P161540	37 23 23	89 39 58	<.05	2	.5	.2	N	.2	N
P161550	37 23 23	89 39 58	.05	2	.7	.2	N	.2	N
P161560	37 23 23	89 39 58	.1	2	.7	.2	N	.2	N
P161570	37 23 23	89 39 58	.15	2	1	.3	N	.3	N
P161580	37 23 23	89 39 58	.15	.5	.3	N	N	.03	N
P161590	37 23 23	89 39 58	.15	1	.5	N	N	.07	N
P161600	37 23 23	89 39 58	.2	1	.7	.2	N	.07	N
P161610	37 23 23	89 39 58	.3	.7	.2	N	N	.03	N
P161620	37 23 23	89 39 58	.3	.2	.15	N	N	.02	N
P161630	37 23 23	89 39 58	.1	.7	.7	N	N	.05	10
P161640	37 23 23	89 39 58	.3	.2	.2	N	N	.015	N
P161650	37 23 23	89 39 58	.15	.2	.15	N	N	.01	N
P161660	37 23 23	89 39 58	.2	.15	.15	N	N	.005	N
P161670	37 23 23	89 39 58	.15	.5	.15	N	N	.015	N
P161680	37 23 23	89 39 58	.15	.1	.1	N	N	.003	N
P161690	37 23 23	89 39 58	.07	.2	.07	N	N	.005	N
P161700	37 23 23	89 39 58	.05	.15	.15	N	N	.005	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, PADUCAH 1 x 2 DEGREE QUADRANGLE, MISSOURI, ILLINOIS, AND KENTUCKY.--Continued

Sample	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
P161230	N	N	50	70	N	N	N	N	<10	30
P161240	N	N	30	50	N	N	N	N	N	5
P161250	N	N	30	200	N	N	N	N	15	20
P161260	N	N	30	70	N	20	N	N	N	30
P161270	N	N	50	50	N	<10	N	N	<10	20
P161280	N	N	70	30	N	N	N	N	<10	20
P161290	N	N	50	200	N	N	N	N	10	50
P161300	N	N	30	70	N	N	N	N	<10	20
P161310	N	N	50	70	N	N	N	N	<10	15
P161320	N	N	50	100	N	N	N	N	<10	7
P161330	N	N	30	70	N	N	N	N	100	20
P161340	N	N	15	200	N	N	N	N	<10	30
P161350	N	N	15	50	N	N	N	N	N	10
P161360	N	N	20	50	N	N	N	N	N	<5
P161370	N	N	15	150	N	N	N	N	<10	30
P161380	N	N	<10	100	N	N	N	N	N	30
P161390	N	N	30	70	N	N	N	N	<10	50
P161400	N	N	70	500	<1	N	N	<10	30	70
P161410	N	N	50	300	N	N	N	<10	30	70
P161420	N	N	50	200	N	N	N	<10	20	70
P161430	N	N	70	300	N	N	N	<10	70	70
P161440	N	N	10	70	N	N	N	N	N	20
P161450	N	N	20	30	N	N	N	N	N	5
P161460	N	N	50	30	N	N	N	N	N	5
P161470	N	N	50	50	N	N	N	N	N	10
P161480	N	N	30	50	N	N	N	N	N	<5
P161490	N	N	30	70	N	N	N	N	10	7
P161500	N	N	50	700	N	N	N	<10	30	20
P161510	N	N	50	700	N	N	N	<10	20	20
P161520	N	N	30	300	N	N	N	N	10	15
P161530	N	N	50	70	N	N	N	N	<10	5
P161540	N	N	50	300	N	N	N	10	20	30
P161550	N	N	70	500	<1	N	N	10	20	20
P161560	N	N	70	300	<1	N	N	<10	20	15
P161570	N	N	150	700	<1	N	N	10	30	30
P161580	N	N	20	70	N	N	N	N	N	<5
P161590	N	N	30	100	N	N	N	N	10	15
P161600	N	N	30	150	N	N	N	N	15	10
P161610	N	N	30	70	N	N	N	N	N	5
P161620	N	N	20	30	N	N	N	N	N	N
P161630	<200	N	50	20	N	200	N	N	N	100
P161640	N	N	20	70	N	N	N	N	N	N
P161650	N	N	20	<20	N	N	N	N	N	N
P161660	N	N	20	20	N	N	N	N	N	<5
P161670	N	N	20	30	N	N	N	N	N	<5
P161680	N	N	15	20	N	N	N	N	N	N
P161690	N	N	20	N	N	N	N	N	N	<5
P161700	N	N	15	<20	N	N	N	N	N	<5

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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
P161230	<5	N	N	<10	50	N	15	100	N	N
P161240	N	N	N	N	N	N	N	300	100	N
P161250	N	N	N	15	5	N	15	30	N	N
P161260	N	N	N	<10	<5	N	10	7,000	3,000	N
P161270	N	N	N	<10	20	N	10	5,000	700	N
P161280	<5	N	N	N	<5	N	10	1,000	N	N
P161290	10	N	N	70	15	N	20	500	N	N
P161300	<5	N	N	20	20	N	15	150	N	N
P161310	7	N	N	15	10	N	10	500	N	N
P161320	<5	N	N	<10	<5	N	<5	100	N	N
P161330	<5	N	N	<10	15	N	<5	70	N	N
P161340	5	N	N	200	<5	N	10	20	N	N
P161350	N	N	N	10	N	N	<5	10	N	N
P161360	N	N	N	N	N	N	N	N	N	N
P161370	<5	N	N	20	<5	N	10	30	N	N
P161380	N	N	N	50	<5	N	15	15	N	N
P161390	15	N	N	30	15	N	20	100	N	N
P161400	15	N	N	20	20	N	30	100	N	N
P161410	30	N	N	<10	20	N	30	100	N	N
P161420	15	N	N	<10	20	N	30	150	N	N
P161430	30	N	N	70	30	N	50	150	N	N
P161440	N	N	N	<10	5	N	7	<10	N	N
P161450	N	N	N	N	<5	N	N	N	N	N
P161460	N	N	N	N	<5	N	<5	N	N	N
P161470	N	N	N	N	<5	N	5	15	N	N
P161480	N	N	N	N	N	N	<5	N	N	N
P161490	<5	N	N	N	N	N	10	20	N	N
P161500	20	N	N	<10	20	N	20	150	N	N
P161510	10	N	N	15	30	N	20	100	N	N
P161520	5	N	N	10	5	N	15	100	N	N
P161530	<5	N	N	<10	<5	N	10	<10	N	N
P161540	15	N	N	10	30	N	50	30	N	N
P161550	15	N	N	15	15	<20	30	30	N	<5
P161560	15	N	N	30	15	N	20	20	N	<5
P161570	50	N	N	70	20	<20	30	100	N	<5
P161580	N	N	N	<10	<5	N	<5	<10	N	N
P161590	10	N	N	10	7	N	15	30	N	N
P161600	15	N	N	<10	7	N	10	15	N	N
P161610	N	N	N	<10	5	N	<5	N	N	N
P161620	N	N	N	N	N	N	N	N	N	N
P161630	<5	N	N	N	<5	N	10	>20,000	>10,000	N
P161640	N	N	N	N	N	N	N	15	N	N
P161650	N	N	N	N	N	N	N	500	N	N
P161660	N	N	N	N	N	N	N	N	N	N
P161670	N	N	N	<10	N	N	5	10	N	N
P161680	N	N	N	N	N	N	N	N	N	N
P161690	N	N	N	N	N	N	<5	<10	N	N
P161700	N	N	N	N	N	N	<5	N	N	N

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P16, 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 #
P161230	N	N	N	50	N	N	N	30	.06	51
P161240	10	N	N	15	N	N	N	10	<.01	51
P161250	N	N	N	30	N	N	N	50	.03	51
P161260	200	N	N	20	N	N	N	20	.02	51
P161270	150	N	N	20	N	N	N	30	.02	51
P161280	N	N	N	20	N	N	N	10	.06	51
P161290	N	N	N	50	N	N	N	70	.06	51
P161300	N	N	N	20	N	N	N	70	.05	51
P161310	<10	N	N	20	N	N	N	50	.03	51
P161320	N	N	N	15	N	N	N	30	.02	51
P161330	N	N	N	15	N	N	N	30	.02	51
P161340	N	N	N	20	N	N	N	70	.02	51
P161350	N	N	N	<10	N	N	N	50	<.01	51
P161360	N	N	N	N	N	N	N	15	<.01	51
P161370	N	N	N	15	N	N	N	50	.04	51
P161380	N	N	N	10	N	N	N	200	<.01	51
P161390	N	N	N	30	N	N	N	30	.06	51
P161400	N	N	N	100	N	N	N	100	.08	51
P161410	N	N	N	50	N	N	N	70	.08	51
P161420	N	N	N	50	N	N	N	70	.06	51
P161430	N	N	N	70	N	N	N	70	.07	51
P161440	N	N	N	<10	N	N	N	50	<.01	51
P161450	N	N	N	10	N	N	N	<10	<.01	51
P161460	N	N	N	N	N	N	N	<10	<.01	51
P161470	N	N	N	10	N	N	N	15	<.01	51
P161480	N	N	N	<10	N	N	N	<10	<.01	51
P161490	N	N	N	15	N	N	N	20	.03	51
P161500	N	N	N	30	N	N	N	70	.05	51
P161510	N	N	N	50	N	N	N	100	.05	51
P161520	N	N	N	30	N	N	N	100	.07	51
P161530	N	N	N	15	N	N	N	15	.05	51
P161540	N	N	N	30	N	N	N	70	.07	51
P161550	N	N	N	50	N	N	N	100	.09	51
P161560	N	N	N	50	N	N	N	100	.11	51
P161570	N	N	N	50	N	N	N	150	.12	51
P161580	N	N	N	<10	N	N	N	15	.02	51
P161590	N	N	N	20	N	N	N	30	.05	51
P161600	N	N	N	15	N	N	N	20	.04	51
P161610	N	N	N	10	N	N	N	20	.02	51
P161620	N	N	N	N	N	N	N	<10	<.01	51
P161630	>1,000	N	N	10	N	<10	N	50	.05	51
P161640	N	N	N	N	N	<10	N	N	.01	51
P161650	N	N	N	N	N	<10	N	N	<.01	51
P161660	N	N	N	N	N	<10	N	N	<.01	51
P161670	N	N	N	N	N	<10	N	<10	<.01	51
P161680	N	N	N	N	N	<10	N	N	<.01	51
P161690	N	N	N	N	N	<10	N	N	<.01	51
P161700	N	N	N	N	N	<10	N	<10	.01	51

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P17, 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
P170010	37 21 53	98 47 27	.2	2	.5	1	N	.3	N	N	N	50
P170020	37 21 53	98 47 27	<.05	2	.15	<.2	N	.2	N	N	N	20
P170030	37 21 53	98 47 27	.05	3	.3	<.2	N	.2	N	N	N	20
P170040	37 21 53	98 47 27	<.05	1.5	.15	N	N	.05	N	N	N	15
P170050	37 21 53	98 47 27	10	1	7	N	N	.1	N	N	N	30
P170060	37 21 53	98 47 27	.3	.5	.2	N	N	.01	N	N	N	15
P170070	37 21 53	98 47 27	.2	3	.7	N	N	.2	N	N	N	50
P170080	37 21 53	98 47 27	.07	3	.5	N	N	.15	N	N	N	20
P170090	37 21 53	98 47 27	.2	1	.3	N	N	.03	N	N	N	20
P170100	37 21 53	98 47 27	.2	.5	.15	N	N	.007	N	N	N	15
P170110	37 21 53	98 47 27	.3	.05	.2	N	N	<.002	N	N	N	20
P170120	37 21 53	98 47 27	.7	.15	.5	N	N	.002	N	N	N	20
P170130	37 21 53	98 47 27	.3	.1	.1	N	N	N	N	N	N	30
P170140	37 21 53	98 47 27	1	.3	.7	N	N	.05	N	N	N	50
P170150	37 21 53	98 47 27	.3	.2	.15	N	N	.01	N	N	N	20
P170160	37 21 53	98 47 27	.5	.05	.2	N	N	.005	N	N	N	30
P170170	37 21 53	98 47 27	.3	<.05	.15	N	N	N	N	N	N	20
P170180	37 21 53	98 47 27	.3	1.5	.7	N	N	.15	N	N	N	50
P170190	37 21 53	98 47 27	1	.7	2	N	N	.03	N	N	N	20
P170200	37 21 53	98 47 27	.5	1	1.5	N	N	.1	N	N	N	30
P170210	37 21 53	98 47 27	3	1	2	N	N	.07	N	N	N	30
P170220	37 21 53	98 47 27	5	.7	5	N	N	.05	N	N	N	20
P170230	37 21 53	98 47 27	.5	2	2	.3	N	.3	N	N	N	100
P170240	37 21 53	98 47 27	2	1.5	3	<.2	N	.15	N	N	N	70
P170250	37 21 53	98 47 27	5	1.5	5	.2	N	.15	N	N	N	50
P170260	37 21 53	98 47 27	.7	.5	.7	N	N	.03	N	N	N	20
P170270	37 21 53	98 47 27	.3	.7	.7	N	N	.15	N	N	N	70
P170280	37 21 53	98 47 27	.05	.5	.1	N	N	.02	N	N	N	20
P170290	37 21 53	98 47 27	.7	3	2	.2	N	.3	N	N	N	70
P170300	37 21 53	98 47 27	1.5	2	1.5	<.2	N	.2	N	N	N	50
P170310	37 21 53	98 47 27	.2	.7	.5	N	N	.1	N	N	N	30
P170320	37 21 53	98 47 27	.15	.7	.3	N	N	.05	N	N	N	20
P170330	37 21 53	98 47 27	.1	.7	.3	N	N	.07	N	N	N	50
P170340	37 21 53	98 47 27	.15	1	.2	N	N	.07	N	N	N	70
P170350	37 21 53	98 47 27	.15	1	.5	N	N	.1	N	N	N	50
P170360	37 21 53	98 47 27	.07	.7	.2	N	N	.07	N	N	N	50
P170370	37 21 53	98 47 27	.2	1	1	<.2	N	.2	N	N	N	50
P170380	37 21 53	98 47 27	.15	1.5	1	.2	N	.2	N	N	N	50
P170390	37 21 53	98 47 27	5	1.5	5	.3	N	.2	N	N	N	70
P170400	37 21 53	98 47 27	.7	.7	1	<.2	N	.1	N	N	N	70
P170410	37 21 53	98 47 27	10	1.5	7	<.2	N	.2	N	N	N	50
P170420	37 21 53	98 47 27	1	.7	.7	N	N	.05	N	N	N	20
P170430	37 21 53	98 47 27	10	.5	5	N	N	.05	N	N	N	15
P170440	37 21 53	98 47 27	1.5	3	3	.2	N	.3	N	N	N	50
P170450	37 21 53	98 47 27	3	1	3	N	N	.2	N	N	N	50
P170460	37 21 53	98 47 27	2	1	2	N	N	.1	N	N	N	20
P170470	37 21 53	98 47 27	3	1.5	2	N	N	.03	N	N	N	20
P170480	37 21 53	98 47 27	.07	2	.1	N	N	.03	N	N	N	20
P170490	37 21 53	98 47 27	20	1.5	7	N	N	.05	N	N	N	20
P170500	37 21 53	98 47 27	.5	3	.7	N	N	.15	N	N	N	30
P170510	37 21 53	98 47 27	1.5	3	1.5	<.2	N	.3	N	N	N	70
P170520	37 21 53	98 47 27	5	3	5	.2	N	.3	N	N	N	30
P170530	37 21 53	98 47 27	3	2	3	<.2	N	.3	N	N	N	70
P170540	37 21 53	98 47 27	.2	.3	.2	N	N	.03	N	N	N	10
P170550	37 21 53	98 47 27	2	1	2	N	N	.1	N	N	N	15
P170560	37 21 53	98 47 27	10	1	7	N	N	.15	N	N	N	50
P170570	37 21 53	98 47 27	7	.7	7	<.2	N	.07	N	N	N	30
P170580	37 21 53	98 47 27	5	.5	3	N	N	.05	N	N	N	30
P170590	37 21 53	98 47 27	20	.5	10	N	N	.07	N	N	N	30
P170600	37 21 53	98 47 27	3	2	3	N	N	.2	N	N	N	50

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P17, 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
P170010	700	1	N	N	10	50	20	15	N	N	1,500	N	<20
P170020	200	<1	N	N	10	30	10	7	N	N	50	N	N
P170030	200	1	N	N	10	30	30	10	N	N	500	N	N
P170040	100	<1	N	N	<10	15	20	N	N	N	300	N	N
P170050	150	<1	N	N	N	20	10	7	N	N	30	N	N
P170060	50	N	N	N	N	N	<5	N	N	N	10	N	N
P170070	300	1	N	N	<10	30	15	15	N	N	150	N	N
P170080	200	<1	N	N	N	15	30	10	N	N	200	N	N
P170090	70	<1	N	N	N	<10	15	N	N	N	100	N	N
P170100	30	N	N	N	N	N	N	N	N	N	N	N	N
P170110	<20	N	N	N	N	N	N	N	N	N	N	N	N
P170120	30	N	N	N	N	N	N	N	N	N	N	N	N
P170130	20	N	N	N	N	N	15	N	N	N	N	N	N
P170140	150	<1	N	N	N	<10	5	N	N	N	N	N	N
P170150	30	N	N	N	N	N	<5	N	N	N	N	N	N
P170160	50	N	N	N	N	N	100	N	N	N	N	N	N
P170170	30	<1	N	N	N	N	N	N	N	N	N	N	N
P170180	200	1	N	N	N	15	50	5	N	N	<10	N	N
P170190	50	N	N	N	N	<10	70	5	N	N	<10	N	N
P170200	150	1	N	N	N	15	20	10	N	N	<10	N	N
P170210	100	<1	N	N	N	15	20	10	N	N	10	N	N
P170220	100	N	N	N	N	10	50	5	N	N	10	N	N
P170230	500	1.5	N	N	10	70	30	70	N	N	20	<5	N
P170240	300	1	N	N	<10	30	20	30	N	N	15	N	N
P170250	200	1	N	N	<10	30	15	30	N	N	15	N	N
P170260	150	<1	N	N	N	N	5	N	N	N	<10	N	N
P170270	100	N	N	N	N	10	15	<5	N	N	10	N	N
P170280	30	N	N	N	N	N	2,000	N	N	N	N	N	N
P170290	300	N	N	N	10	50	70	70	N	N	15	15	N
P170300	700	<1	N	N	<10	15	30	20	N	N	15	5	N
P170310	70	N	N	N	<10	<10	20	N	N	N	<10	N	N
P170320	50	N	N	N	N	N	10	N	N	N	<10	30	N
P170330	100	N	N	N	N	<10	30	N	N	N	10	5	N
P170340	300	<1	N	N	N	<10	20	<5	N	N	<10	10	N
P170350	200	<1	N	N	N	10	15	N	N	N	N	20	N
P170360	150	N	N	N	N	<10	10	N	N	N	<10	<5	N
P170370	300	<1	N	N	N	20	20	20	N	N	10	N	N
P170380	300	N	N	N	<10	30	15	20	N	N	10	N	N
P170390	500	<1	N	N	<10	30	20	50	N	N	15	N	N
P170400	300	1	N	N	N	15	20	30	N	N	10	<5	N
P170410	200	<1	N	N	<10	20	30	10	N	N	20	20	N
P170420	300	<1	N	N	N	10	10	N	N	N	<10	5	N
P170430	100	N	N	N	N	<10	15	N	N	N	10	7	N
P170440	200	N	N	N	10	50	70	50	N	N	15	20	N
P170450	150	<1	N	N	N	15	50	10	N	N	10	10	N
P170460	200	N	N	N	N	10	30	10	N	N	10	7	N
P170470	150	N	N	N	N	N	30	N	N	N	<10	7	N
P170480	50	N	N	N	N	N	20	N	N	N	<10	20	N
P170490	50	N	N	N	N	N	5	<5	N	N	20	15	N
P170500	200	N	N	N	<10	<10	30	7	N	N	<10	50	N
P170510	500	<1	N	N	10	30	50	20	N	N	20	20	N
P170520	200	N	N	N	10	50	50	30	N	N	15	5	N
P170530	200	<1	N	N	20	50	50	20	N	N	15	<5	N
P170540	200	<1	N	N	N	N	<5	N	N	N	<10	N	N
P170550	150	N	N	N	N	<10	70	N	N	N	10	20	N
P170560	100	N	N	N	<10	10	15	10	N	N	15	10	N
P170570	70	N	N	N	N	15	7	15	N	N	15	5	N
P170580	100	N	N	N	N	N	5	N	N	N	<10	<5	N
P170590	50	N	N	N	N	<10	5	<5	N	N	20	5	N
P170600	150	N	N	N	<10	15	20	15	N	N	10	15	N

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P17, 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 #
P170010	10	20	N	5	N	N	N	50	N	20	N	300	.01	51
P170020	5	<10	N	N	N	N	N	30	N	<10	N	200	.01	51
P170030	15	15	N	<5	N	N	N	50	N	10	N	200	.03	51
P170040	5	<10	N	N	N	N	N	20	N	N	N	50	.02	51
P170050	<5	20	N	N	N	<100	N	20	N	N	N	100	.04	51
P170060	N	N	N	N	N	N	N	10	N	N	N	20	<.01	51
P170070	20	10	N	N	N	N	N	30	N	N	N	150	.05	51
P170080	15	20	N	N	N	N	N	20	N	N	N	50	.05	51
P170090	<5	N	N	N	N	N	N	15	N	N	N	20	.02	51
P170100	N	N	N	N	N	N	N	<10	N	N	N	<10	<.01	51
P170110	N	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P170120	N	N	N	N	N	N	N	N	N	N	N	10	<.01	51
P170130	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	51
P170140	N	N	N	N	N	N	N	10	N	N	N	50	<.01	51
P170150	N	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P170160	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	51
P170170	N	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P170180	<5	70	N	N	N	N	N	15	N	N	N	70	.03	51
P170190	N	15	N	N	N	N	N	10	N	N	N	10	.03	51
P170200	5	10	N	N	N	100	N	15	N	N	N	50	.05	51
P170210	10	10	N	N	N	<100	N	15	N	N	N	30	.04	51
P170220	<5	30	N	N	N	<100	N	10	N	N	N	20	.02	51
P170230	20	15	N	<5	N	N	N	50	N	N	N	100	.18	51
P170240	15	<10	N	N	N	N	N	30	N	N	N	70	.09	51
P170250	15	<10	N	N	N	N	N	30	N	N	N	100	.09	51
P170260	<5	N	N	N	N	N	N	10	N	N	N	20	.02	51
P170270	10	<10	N	N	N	N	N	20	N	N	N	30	.03	51
P170280	N	N	N	N	N	N	N	<10	N	N	N	<10	<.01	51
P170290	30	20	N	<5	N	N	N	50	N	N	N	70	.11	51
P170300	20	30	N	N	N	N	N	20	N	N	N	100	.04	51
P170310	10	N	N	N	N	N	N	15	N	N	N	15	.02	51
P170320	10	N	N	N	N	N	N	10	N	N	N	10	.03	51
P170330	10	20	N	N	N	N	N	15	N	N	300	15	.02	52
P170340	7	70	N	N	N	N	N	15	N	N	300	50	.02	52
P170350	10	N	N	N	N	N	N	20	N	N	N	70	.03	52
P170360	7	N	N	N	N	N	N	10	N	N	N	20	.02	52
P170370	10	<10	N	N	N	N	N	30	N	N	N	50	.06	52
P170380	15	10	N	N	N	N	N	30	N	N	N	100	.12	52
P170390	15	15	N	N	N	<100	N	50	N	N	N	200	.08	52
P170400	10	15	N	N	N	N	N	20	N	N	N	70	.06	52
P170410	15	20	N	N	N	<100	N	30	N	N	N	50	.04	52
P170420	7	30	N	N	N	N	N	10	N	N	N	50	.01	52
P170430	<5	10	N	N	N	N	N	10	N	N	N	15	<.01	52
P170440	20	70	N	N	N	N	N	30	N	N	N	50	.06	52
P170450	10	15	N	N	N	N	N	20	N	N	N	70	.04	52
P170460	10	15	N	N	N	N	N	15	N	N	N	50	.03	52
P170470	7	<10	N	N	N	N	N	10	<20	N	N	50	<.01	52
P170480	10	10	N	N	N	N	N	<10	N	N	N	15	<.01	52
P170490	7	20	N	N	N	<100	N	10	N	N	N	10	.01	52
P170500	15	20	N	N	N	<100	N	10	N	N	N	100	.01	52
P170510	20	20	N	N	N	N	N	30	N	N	N	150	.06	52
P170520	15	15	N	N	N	N	N	20	<20	N	N	30	.05	52
P170530	20	20	N	N	N	N	N	50	N	N	N	50	.06	52
P170540	N	N	N	N	N	N	N	<10	70	N	N	20	<.01	52
P170550	10	<10	N	N	N	N	N	15	N	N	N	70	.02	52
P170560	10	<10	N	N	N	N	N	30	<20	N	N	70	.05	52
P170570	7	15	N	N	N	N	N	20	N	N	N	10	.04	52
P170580	<5	N	N	N	N	N	N	<10	N	N	N	30	.01	52
P170590	5	<10	N	N	N	<100	N	10	N	N	N	10	.02	52
P170600	15	15	N	N	N	N	N	20	N	N	N	50	.06	52

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P17, 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
P170610	37 21 53	98 47 27	10	.5	7	N	N	.02	N	N	N	15
P170620	37 21 53	98 47 27	.5	.7	.5	N	N	.05	N	N	N	20
P170630	37 21 53	98 47 27	7	1	3	N	N	.15	N	N	N	30
P170640	37 21 53	98 47 27	20	1	10	<.2	N	.15	N	N	N	50
P170650	37 21 53	98 47 27	N	.3	.1	N	N	.015	N	N	N	20
P170660	37 21 53	98 47 27	1	.7	.7	N	N	.07	N	N	N	50
P170670	37 21 53	98 47 27	.3	.5	.5	N	N	.05	N	N	N	30
P170680	37 21 53	98 47 27	2	2	2	<.2	N	.3	N	N	N	70
P170690	37 21 53	98 47 27	.15	1.5	.7	<.2	N	.3	N	N	N	50
P170700	37 21 53	98 47 27	5	1	3	<.2	N	.3	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
P170610	30	N	N	N	N	<10	<5	<5	N	N	10	<5	N
P170620	50	N	N	N	N	N	7	10	N	N	<10	<5	N
P170630	100	N	N	N	<10	15	20	15	N	N	15	15	N
P170640	100	N	N	N	N	15	5	5	N	N	30	5	N
P170650	30	N	N	N	20	N	<5	N	N	N	N	N	N
P170660	150	N	N	N	N	N	<5	<5	N	N	10	N	N
P170670	150	N	N	N	N	N	<5	<5	N	N	N	<5	N
P170680	300	<1	N	N	10	20	50	30	N	N	20	15	N
P170690	300	<1	N	N	<10	20	20	30	N	N	<10	10	N
P170700	300	N	N	N	N	30	20	30	N	N	10	<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 #
P170610	<5	N	N	N	N	N	N	10	N	N	N	10	.03	53
P170620	5	N	N	N	N	N	N	<10	N	N	N	15	.02	53
P170630	10	20	N	N	N	N	N	15	N	N	N	50	.04	53
P170640	7	20	N	N	N	<100	N	15	N	N	N	30	.03	53
P170650	<5	N	N	N	N	N	N	<10	N	N	N	10	.02	53
P170660	<5	<10	N	N	N	N	N	10	N	N	N	30	.02	53
P170670	<5	N	N	N	N	N	N	<10	N	N	N	70	.02	53
P170680	20	70	N	N	N	N	N	30	N	N	N	100	.06	53
P170690	15	15	N	N	N	N	N	30	N	N	N	150	.05	53
P170700	10	15	N	N	N	N	N	20	N	N	N	200	.05	53

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P180220	37 1 10	89 29 21	.1	1	.1	.5	N	.05	N	N	N	15
P180230	37 1 10	89 29 21	<.05	2	.15	<.2	N	.05	N	N	N	30
P180240	37 1 10	89 29 21	.15	1.5	.15	1	N	.07	N	N	N	15
P180250	37 1 10	89 29 21	<.05	.7	.07	.5	N	.03	N	N	N	20
P180260	37 1 10	89 29 21	.3	3	1.5	.7	N	.2	N	N	N	100
P180270	37 1 10	89 29 21	.3	5	1	.7	N	.3	N	N	N	70
P180280	37 1 10	89 29 21	.2	3	.7	.5	N	.3	N	N	N	50
P180290	37 1 10	89 29 21	.05	7	.5	.3	N	.2	N	500	N	30
P180300	37 1 10	89 29 21	.07	3	.7	.2	N	.5	N	N	N	50
P180310	37 1 10	89 29 21	.07	3	.5	.3	N	.3	N	N	N	30
P180320	37 1 10	89 29 21	.1	5	.7	.3	N	.7	N	N	N	70
P180330	37 1 10	89 29 21	.15	10	.2	1	N	.1	N	300	N	30
P180340	37 1 10	89 29 21	.15	3	.2	<.2	N	.2	N	<200	N	50
P180350	37 1 10	89 29 21	<.05	5	.15	.2	N	.15	N	N	N	20
P180360	37 1 10	89 29 21	.05	1.5	.15	<.2	N	.15	N	N	N	100
P180370	37 1 10	89 29 21	N	5	.05	N	N	.03	N	N	N	20
P180380	37 1 10	89 29 21	<.05	7	.1	N	N	.1	N	N	N	15
P180390	37 1 10	89 29 21	N	10	.15	N	N	.15	N	<200	N	15
P180400	37 1 10	89 29 21	.05	5	.5	N	N	.15	N	N	N	30
P180410	37 1 10	89 29 21	.07	5	.3	.3	N	.02	N	N	N	10
P180420	37 1 10	89 29 21	.1	3	.15	.2	N	.07	N	N	N	20
P180430	37 1 10	89 29 21	.05	5	.07	.2	N	.05	N	N	N	10
P180440	37 1 10	89 29 21	.07	10	.5	.7	N	.1	N	N	N	15
P180450	37 1 10	89 29 21	.05	7	.2	.3	N	.15	N	N	N	30
P180460	37 1 10	89 29 21	.1	10	.15	.5	N	.1	N	N	N	15
P180470	37 1 10	89 29 21	.15	5	1.5	N	N	.07	N	N	N	10
P180480	37 1 10	89 29 21	.3	2	.7	.2	N	.3	N	N	N	20
P180490	37 1 10	89 29 21	.15	20	.3	N	N	.1	N	300	N	<10
P180500	37 1 10	89 29 21	1	7	1	<.2	N	.07	N	N	N	20
P180510	37 1 10	89 29 21	.2	3	1	.2	N	.3	N	N	N	50
P180530	37 1 10	89 29 21	.07	5	1	.7	N	.3	N	N	N	50
P180540	37 1 10	89 29 21	.1	7	.5	.2	N	.15	N	N	N	20
P180550	37 1 10	89 29 21	.07	5	.7	.3	N	.2	N	N	N	20
P180555	37 1 10	89 29 21	.07	3	.7	.2	N	.2	N	N	N	30
P180570	37 1 10	89 29 21	.15	2	.15	1	N	.15	N	N	N	20
P180580	37 1 10	89 29 21	.07	5	.7	.3	N	.2	N	N	N	30
P180590	37 1 10	89 29 21	.1	5	.5	.5	N	.15	N	N	N	50
P180600	37 1 10	89 29 21	.1	10	.2	.5	N	.15	N	N	N	15
P180610	37 1 10	89 29 21	.07	3	.15	.2	N	.05	N	N	N	10
P180620	37 1 10	89 29 21	.07	10	.15	N	N	.05	N	N	N	15
P180630	37 1 10	89 29 21	.05	3	.1	N	N	.007	N	N	N	10
P180640	37 1 10	89 29 21	.5	3	.5	N	N	.015	N	N	N	20
P180650	37 1 10	89 29 21	<.05	.7	.1	N	N	.015	N	N	N	10
P180660	37 1 10	89 29 21	.05	1	.1	N	N	.015	N	N	N	10
P180670	37 1 10	89 29 21	2	.7	.2	.5	N	.03	N	N	N	15
P180680	37 1 10	89 29 21	.07	2	.15	N	N	.05	N	N	N	15
P180690	37 1 10	89 29 21	.15	5	.1	N	N	.01	N	N	N	20
P180700	37 1 10	89 29 21	<.05	1.5	.02	N	N	.015	N	N	N	<10
P180710	37 1 10	89 29 21	N	1.5	.02	N	N	.01	N	N	N	10
P180720	37 1 10	89 29 21	N	.7	.03	N	N	.01	N	N	N	15
P180730	37 1 10	89 29 21	N	3	.03	N	N	.005	N	N	N	10
P180740	37 1 10	89 29 21	<.05	10	.07	N	N	.01	N	N	N	10
P180750	37 1 10	89 29 21	<.05	7	.05	N	N	.007	N	N	N	10
P180760	37 1 10	89 29 21	N	2	.1	N	N	.02	N	N	N	<10
P180770	37 1 10	89 29 21	N	1.5	.05	N	N	.015	N	N	N	10
P180780	37 1 10	89 29 21	<.05	3	.7	.2	N	.15	N	N	N	50
P180790	37 1 10	89 29 21	.07	2	.5	<.2	N	.1	N	N	N	30
P180800	37 1 10	89 29 21	<.05	1.5	.15	<.2	N	.05	N	N	N	15
P180810	37 1 10	89 29 21	.15	5	.2	N	N	.05	N	N	N	10
P180820	37 1 10	89 29 21	.07	7	.15	N	N	.02	N	N	N	10

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P180220	150	N	N	N	N	<10	<5	N	N	N	70	N	N
P180230	100	N	N	N	<10	15	7	<5	N	N	70	N	N
P180240	100	N	N	N	<10	<10	<5	<5	N	N	70	N	N
P180250	150	N	N	N	N	N	5	N	N	N	20	N	N
P180260	500	<1	N	N	<10	150	7	20	N	N	30	N	N
P180270	500	<1	N	N	10	70	15	15	<10	N	100	N	<20
P180280	300	<1	N	N	30	50	15	10	N	N	50	N	N
P180290	200	N	N	N	30	30	20	10	<10	N	30	<5	N
P180300	300	1	N	N	20	70	15	20	N	N	50	N	<20
P180310	300	<1	N	N	10	50	15	15	N	N	30	N	N
P180320	500	1.5	N	N	10	70	15	30	N	N	70	N	<20
P180330	300	N	N	N	20	10	5	15	N	N	30	5	N
P180340	200	<1	N	N	20	30	20	<5	15	N	15	<5	N
P180350	100	N	N	N	10	20	15	10	<10	N	10	<5	N
P180360	100	N	N	N	<10	20	5	N	N	N	10	N	N
P180370	30	N	N	N	10	N	<5	N	N	N	700	N	N
P180380	50	N	N	N	10	<10	7	<5	N	N	15	7	N
P180390	20	N	N	N	20	10	5	15	N	N	N	15	N
P180400	70	N	N	N	30	15	20	10	N	N	20	15	N
P180410	150	<1	N	N	10	N	7	N	N	N	70	10	N
P180420	150	N	N	N	10	N	7	N	N	N	50	<5	N
P180430	100	N	N	N	15	N	7	<5	N	N	<10	5	N
P180440	200	N	N	N	20	<10	7	<5	N	N	70	5	N
P180450	150	<1	N	N	<10	20	10	10	N	<50	70	<5	N
P180460	150	N	N	N	15	<10	30	10	N	N	200	7	N
P180470	150	N	N	N	N	<10	10	10	N	N	15	10	N
P180480	100	N	N	N	10	20	15	5	N	N	20	<5	N
P180490	70	N	N	N	50	<10	20	30	N	N	30	20	N
P180500	50	<1	N	N	15	N	10	7	N	N	500	5	N
P180510	300	<1	N	N	15	50	50	10	N	N	30	30	N
P180530	300	1	N	N	<10	70	500	15	N	N	30	5	N
P180540	2,000	N	N	N	20	20	50	10	N	N	300	20	N
P180550	150	N	N	N	<10	50	15	10	N	N	30	7	N
P180555	100	N	N	N	N	30	20	7	<10	N	50	5	N
P180570	300	<1	N	N	N	<10	15	N	N	N	50	N	N
P180580	100	N	N	N	<10	50	70	7	N	N	30	5	N
P180590	100	N	N	N	<10	50	100	N	N	N	50	15	N
P180600	300	N	N	N	10	70	1,000	10	N	N	100	20	<20
P180610	70	N	N	N	100	10	70	<5	N	N	10	<5	N
P180620	50	N	N	N	10	10	50	7	N	N	10	20	N
P180630	<20	N	N	N	10	N	15	N	N	N	15	5	N
P180640	700	N	N	N	70	N	100	N	N	N	20	10	N
P180650	20	N	N	N	N	N	10	N	N	N	<10	N	N
P180660	50	N	N	N	N	N	30	N	N	N	15	N	N
P180670	100	N	N	N	N	N	20	N	N	N	70	N	N
P180680	30	N	N	N	<10	<10	30	N	N	N	10	7	N
P180690	30	N	N	N	<10	N	20	N	N	N	50	10	N
P180700	<20	N	N	N	N	N	5	N	N	N	20	<5	N
P180710	N	N	N	N	N	N	5	N	N	N	20	5	N
P180720	N	N	N	N	<10	N	5	N	N	N	N	N	N
P180730	<20	N	N	N	10	N	10	N	N	N	10	5	N
P180740	<20	N	N	N	50	N	50	<5	N	N	70	50	N
P180750	20	N	N	N	20	N	30	<5	N	N	50	20	N
P180760	30	N	N	N	20	<10	20	N	N	N	<10	7	N
P180770	700	N	N	N	<10	N	<5	N	N	N	<10	<5	N
P180780	150	N	N	N	20	30	20	15	N	N	10	5	N
P180790	200	N	N	N	<10	15	15	10	N	N	10	<5	N
P180800	30	N	N	N	<10	<10	5	N	N	N	10	<5	N
P180810	50	N	N	N	10	<10	15	<5	N	N	15	7	N
P180820	30	N	N	N	10	<10	20	5	N	N	20	10	N

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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 #
P180220	7	N	N	N	N	N	N	15	N	N	N	70	.01	0
P180230	10	N	N	N	N	N	N	30	N	N	N	70	.03	0
P180240	7	N	N	N	N	N	N	20	N	N	N	50	.01	0
P180250	5	N	N	N	N	N	N	15	30	N	N	100	.01	0
P180260	20	<10	N	5	N	N	N	70	<20	N	N	50	.13	0
P180270	30	10	N	5	N	<100	N	100	N	N	N	150	.05	0
P180280	50	15	N	<5	N	N	N	70	N	N	N	100	.06	0
P180290	50	15	N	<5	N	N	N	100	N	N	N	100	.07	0
P180300	30	15	N	5	N	N	N	100	N	<10	N	500	.04	0
P180310	20	<10	N	<5	N	N	N	70	N	N	N	200	.05	0
P180320	20	10	N	7	N	N	N	150	N	10	N	300	.04	0
P180330	50	20	N	N	N	N	N	20	N	N	N	100	.03	0
P180340	70	N	N	N	N	N	N	70	N	N	N	200	.03	0
P180350	20	N	N	N	N	N	N	50	N	N	N	100	.02	0
P180360	15	N	N	N	N	N	N	30	N	N	N	100	.03	0
P180370	150	N	N	N	N	N	N	10	N	N	N	30	.02	0
P180380	50	<10	N	N	N	N	N	15	N	N	N	200	.02	0
P180390	20	<10	N	N	N	N	N	15	N	N	N	100	.04	0
P180400	70	N	N	N	N	N	N	20	N	N	N	100	.07	0
P180410	15	N	N	N	N	N	N	15	N	N	N	15	.02	49
P180420	30	N	N	N	N	N	N	20	N	N	N	70	.02	49
P180430	50	15	N	N	N	N	N	10	N	N	N	50	.01	49
P180440	70	<10	N	N	N	N	N	15	N	N	<200	70	.02	49
P180450	20	<10	N	N	N	N	N	70	N	N	N	50	.04	49
P180460	30	<10	N	N	N	N	N	20	500	N	<200	70	.03	49
P180470	20	N	N	N	N	N	N	15	N	N	N	100	.04	49
P180480	30	10	N	N	N	N	N	50	N	N	N	100	.04	49
P180490	150	<10	N	N	N	N	N	15	N	N	300	50	.02	49
P180500	70	<10	N	<5	N	N	N	15	N	<10	N	150	.05	49
P180510	50	10	N	<5	N	N	N	70	N	N	N	150	.08	49
P180530	20	10	N	<5	N	<100	N	70	N	N	N	70	.07	49
P180540	100	15	N	N	N	N	N	20	N	N	200	30	.06	49
P180550	15	N	N	<5	N	N	N	50	N	N	N	100	.05	49
P180555	15	N	N	N	N	N	N	50	50	N	N	70	.05	49
P180570	15	N	N	N	N	<100	N	20	70	N	300	100	.01	49
P180580	20	N	N	<5	N	N	N	70	<20	N	N	70	.04	49
P180590	30	N	N	N	N	N	N	50	50	N	N	70	.03	49
P180600	150	10	N	N	20	N	N	30	1,000	N	N	20	.05	49
P180610	100	<10	N	N	N	N	N	15	30	N	N	100	.02	49
P180620	30	<10	N	N	N	N	N	10	N	N	N	50	.02	49
P180630	20	N	N	N	N	N	N	N	N	N	N	<10	<.01	49
P180640	200	N	N	N	N	N	N	N	<20	N	N	10	<.01	49
P180650	15	N	N	N	N	N	N	<10	N	N	<200	<10	<.01	49
P180660	15	N	N	N	N	N	N	10	500	N	N	10	<.01	49
P180670	10	N	N	N	N	N	N	10	20	N	N	10	<.01	49
P180680	20	N	N	N	N	N	N	10	100	N	N	<10	.01	49
P180690	50	N	N	N	N	N	N	<10	N	N	N	<10	<.01	49
P180700	15	N	N	N	N	N	N	N	<20	N	N	<10	<.01	49
P180710	10	N	N	N	N	N	N	N	N	N	N	10	<.01	49
P180720	10	N	N	N	N	N	N	<10	N	N	N	N	<.01	49
P180730	30	N	N	N	N	N	N	N	N	N	N	<10	<.01	49
P180740	100	N	N	N	N	N	N	N	N	N	N	N	<.01	49
P180750	70	N	N	N	N	N	N	N	N	N	<200	10	<.01	49
P180760	70	N	N	N	N	N	N	<10	70	N	N	30	.01	50
P180770	15	N	N	N	N	N	N	<10	N	N	N	<10	<.01	50
P180780	70	N	N	N	N	N	N	50	N	N	N	100	.05	50
P180790	20	N	N	N	N	N	N	20	N	N	N	70	.02	50
P180800	15	N	N	N	N	N	N	10	N	N	N	20	.02	50
P180810	20	N	N	N	N	N	N	10	N	N	<200	20	.03	50
P180820	30	10	N	N	N	N	N	<10	N	N	N	<10	<.01	50

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P180830	37 1 10	89 29 21	.15	7	.5	N	N	.05	N	<200	N	20
P180840	37 1 10	89 29 21	<.05	5	.07	N	N	.01	N	N	N	10
P180850	37 1 10	89 29 21	.05	7	.15	N	N	.05	N	N	N	20
P180860	37 1 10	89 29 21	<.05	5	.15	<.2	N	.02	N	N	N	10
P180870	37 1 10	89 29 21	<.05	5	.1	N	N	.01	N	N	N	10
P180880	37 1 10	89 29 21	.05	5	.1	N	N	.02	N	N	N	10
P180890	37 1 10	89 29 21	<.05	5	.05	N	N	.015	N	N	N	10
P180900	37 1 10	89 29 21	N	3	.02	N	N	.005	N	N	N	<10
P180910	37 1 10	89 29 21	N	3	.02	N	N	.015	N	N	N	10
P180920	37 1 10	89 29 21	N	7	.15	N	N	.02	N	N	N	10
P180930	37 1 10	89 29 21	N	5	.15	N	N	.02	N	N	N	10
P180940	37 1 10	89 29 21	.05	1	.5	N	N	.07	N	N	N	20
P180950	37 1 10	89 29 21	.05	1.5	.3	N	N	.05	N	N	N	15
P180960	37 1 10	89 29 21	N	2	.05	N	N	.02	N	N	N	<10
P180970	37 1 10	89 29 21	<.05	3	.07	N	N	.03	N	N	N	10
P180980	37 1 10	89 29 21	N	2	.07	N	N	.03	N	N	N	N
P180990	37 1 10	89 29 21	N	1	.1	N	N	.015	N	N	N	10
P181000	37 1 10	89 29 21	N	1.5	.05	N	N	.02	N	N	N	N
P181010	37 1 10	89 29 21	N	5	.03	N	N	.01	N	N	N	<10
P181020	37 1 10	89 29 21	N	2	.07	N	N	.015	N	N	N	10
P181030	37 1 10	89 29 21	<.05	1.5	.15	N	N	.02	N	N	N	10
P181040	37 1 10	89 29 21	.05	1.5	.5	<.2	N	.07	N	N	N	20
P181050	37 1 10	89 29 21	<.05	3	.15	<.2	N	.03	N	N	N	15
P181060	37 1 10	89 29 21	N	1	.1	N	N	.02	N	N	N	10
P181070	37 1 10	89 29 21	N	1	.03	N	N	.015	N	N	N	N
P181080	37 1 10	89 29 21	N	.5	.02	N	N	.015	N	N	N	N
P181090	37 1 10	89 29 21	N	.5	<.02	N	N	.015	N	N	N	N
P181100	37 1 10	89 29 21	N	.15	<.02	N	N	.01	N	N	N	N
P181120	37 1 10	89 29 21	<.05	3	.05	N	N	.03	N	N	N	15
P181130	37 1 10	89 29 21	.05	5	.05	<.2	N	.02	N	N	N	10
P181140	37 1 10	89 29 21	.05	5	.07	N	N	.05	N	N	N	<10
P181150	37 1 10	89 29 21	<.05	2	.1	N	N	.05	N	N	N	15
P181160	37 1 10	89 29 21	N	1	.05	N	N	.015	N	N	N	<10
P181170	37 1 10	89 29 21	N	1	.07	N	N	.03	N	N	N	10
P181180	37 1 10	89 29 21	.05	5	.15	N	N	.05	N	N	N	15
P181190	37 1 10	89 29 21	.05	3	.07	N	N	.03	N	N	N	<10
P181200	37 1 10	89 29 21	.07	7	.15	N	N	.02	N	N	N	10
P181210	37 1 10	89 29 21	.1	10	.2	.2	N	.03	N	N	N	10
P181220	37 1 10	89 29 21	N	1	.02	N	N	.02	N	N	N	N
P181225	37 1 10	89 29 21	N	1.5	.03	N	N	.01	N	N	N	N
P181240	37 1 10	89 29 21	N	10	.03	N	N	.015	N	N	N	<10
P181250	37 1 10	89 29 21	N	2	.05	N	N	.02	N	N	N	N
P181260	37 1 10	89 29 21	N	1.5	<.02	N	N	.015	N	N	N	N
P181280	37 1 10	89 29 21	N	2	<.02	N	N	.015	N	N	N	N
P181290	37 1 10	89 29 21	N	.7	.07	<.2	N	.03	N	N	N	<10
P181300	37 1 10	89 29 21	<.05	5	.05	<.2	N	.02	N	N	N	10
P181310	37 1 10	89 29 21	<.05	10	.05	N	N	.05	N	N	N	<10
P181320	37 1 10	89 29 21	<.05	1.5	.02	N	N	.02	N	N	N	N
P181330	37 1 10	89 29 21	N	7	.02	N	N	.02	N	N	N	<10
P181340	37 1 10	89 29 21	<.05	5	.03	N	N	.005	N	N	N	10
P181350	37 1 10	89 29 21	N	2	.02	N	N	.01	N	N	N	N
P181360	37 1 10	89 29 21	N	5	.02	N	N	.007	N	N	N	<10
P181380	37 1 10	89 29 21	<.05	10	.1	N	N	.02	N	N	N	10
P181390	37 1 10	89 29 21	<.05	1.5	.1	N	N	.05	N	N	N	10
P181400	37 1 10	89 29 21	<.05	2	.07	N	N	.03	N	N	N	<10
P181410	37 1 10	89 29 21	<.05	5	.07	N	N	.05	N	N	N	10
P181420	37 1 10	89 29 21	<.05	7	.15	N	N	.05	N	N	N	15
P181425	37 1 10	89 29 21	N	10	.03	N	N	.015	.7	N	N	<10
P181440	37 1 10	89 29 21	<.05	3	.02	N	N	.02	N	N	N	<10
P181450	37 1 10	89 29 21	<.05	1	.02	N	N	.01	N	N	N	<10

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P180830	200	N	N	N	20	10	300	<5	N	N	50	15	N
P180840	200	N	N	N	20	N	50	N	N	N	10	10	N
P180850	50	N	N	N	100	<10	30	10	N	N	15	20	N
P180860	700	N	N	N	20	N	7	N	N	N	<10	7	N
P180870	20	N	N	N	10	N	15	N	N	N	30	10	N
P180880	2,000	N	N	N	N	N	10	N	N	N	<10	7	N
P180890	30	N	N	N	20	N	10	N	N	N	<10	10	N
P180900	<20	N	N	N	15	N	5	N	N	N	N	5	N
P180910	20	N	N	N	<10	N	15	N	N	N	<10	7	N
P180920	20	N	N	N	50	<10	30	<5	N	N	<10	30	N
P180930	70	N	N	N	15	<10	100	<5	N	N	10	15	N
P180940	30	N	N	N	N	15	10	N	N	N	<10	N	N
P180950	50	N	N	N	20	10	15	N	N	N	<10	<5	N
P180960	<20	N	N	N	<10	N	50	N	N	N	N	5	N
P180970	50	N	N	N	10	N	30	N	N	N	10	5	N
P180980	20	N	N	N	<10	N	20	N	N	N	N	<5	N
P180990	30	N	N	N	N	30	10	N	N	N	N	<5	N
P181000	50	N	N	N	10	N	7	N	N	N	N	5	N
P181010	1,000	N	N	N	15	10	100	N	N	N	<10	10	N
P181020	1,500	N	N	N	10	N	20	N	N	N	10	7	N
P181030	300	N	N	N	N	N	15	N	N	N	<10	<5	N
P181040	70	N	N	N	<10	10	20	N	N	N	15	<5	N
P181050	150	N	N	N	20	<10	15	N	N	N	30	<5	N
P181060	<20	N	N	N	N	N	5	N	N	N	<10	N	N
P181070	<20	N	N	N	<10	N	15	N	N	N	N	<5	N
P181080	20	N	N	N	N	N	<5	N	N	N	N	N	N
P181090	30	N	N	N	N	N	<5	N	N	N	N	N	N
P181100	N	N	N	N	N	N	N	N	N	N	N	N	N
P181120	30	N	N	N	<10	N	7	N	N	N	<10	<5	N
P181130	70	N	N	N	10	N	15	N	N	N	10	5	N
P181140	20	N	N	N	<10	<10	70	N	N	N	10	7	<20
P181150	30	N	N	N	<10	<10	5	N	N	N	<10	5	N
P181160	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P181170	20	N	N	N	N	15	<5	N	N	N	N	N	N
P181180	30	N	N	N	15	10	5	N	N	N	10	5	N
P181190	20	N	N	N	N	N	15	N	N	N	10	<5	N
P181200	2,000	N	N	N	<10	N	20	<5	N	N	20	7	N
P181210	50	N	N	N	10	15	70	<5	N	N	30	15	<20
P181220	20	N	N	N	N	N	50	N	N	N	<10	N	N
P181225	N	N	N	N	N	N	7	N	N	N	<10	N	N
P181240	N	N	N	N	30	N	100	<5	N	N	50	15	<20
P181250	20	N	N	N	<10	N	15	N	N	N	10	<5	N
P181260	20	N	N	N	N	N	5	N	N	N	<10	N	N
P181280	20	N	N	N	N	N	10	N	N	N	50	5	N
P181290	50	N	N	N	N	N	<5	N	N	N	<10	N	N
P181300	<20	N	N	N	10	N	7	N	N	N	15	10	N
P181310	300	N	N	N	10	N	50	<5	N	N	50	20	N
P181320	20	N	N	N	N	N	50	N	N	N	10	N	N
P181330	1,500	N	N	N	10	N	30	N	N	N	15	7	N
P181340	70	N	N	N	N	<10	150	N	N	N	100	20	N
P181350	20	N	N	N	N	N	70	N	N	N	10	<5	N
P181360	N	N	N	N	10	N	100	N	N	N	<10	7	N
P181380	30	N	N	N	20	<10	200	<5	N	N	100	50	N
P181390	50	N	N	N	N	<10	<5	N	N	N	<10	N	N
P181400	50	N	N	N	N	N	50	N	N	N	<10	5	N
P181410	50	N	N	N	N	<10	30	N	N	N	10	7	N
P181420	50	N	N	N	<10	10	20	<5	N	N	10	10	N
P181425	20	N	N	N	10	N	70	<5	N	N	50	15	<20
P181440	50	N	N	N	N	N	50	N	N	N	10	5	N
P181450	20	N	N	N	N	N	<5	N	N	N	10	N	N

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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 #
P180830	70	N	N	N	N	N	N	15	N	N	500	15	.04	50
P180840	70	N	N	N	N	N	N	<10	200	N	N	20	.01	50
P180850	150	N	N	N	N	N	N	10	100	N	<200	15	.01	50
P180860	50	N	N	N	N	N	N	N	N	N	N	30	<.01	50
P180870	70	N	N	N	N	N	N	N	N	N	N	<10	<.01	50
P180880	20	N	N	N	N	N	N	<10	N	N	N	N	.01	50
P180890	50	N	N	N	N	N	N	<10	20	N	N	10	.01	50
P180900	20	N	N	N	N	N	N	N	N	N	N	N	<.01	50
P180910	20	N	N	N	N	N	N	<10	50	N	N	10	<.01	50
P180920	200	N	N	N	N	N	N	<10	150	N	N	20	<.01	50
P180930	100	N	N	N	N	N	N	10	500	N	N	10	.02	50
P180940	10	N	N	N	N	N	N	20	50	N	N	15	.02	50
P180950	30	N	N	N	N	N	N	15	N	N	N	10	.02	50
P180960	20	N	N	N	N	N	N	N	30	N	N	N	.01	50
P180970	20	N	N	N	N	N	N	<10	500	N	N	20	.01	50
P180980	15	N	N	N	N	N	N	<10	200	N	N	50	.01	50
P180990	7	N	N	N	N	N	N	<10	30	N	N	20	.01	50
P181000	30	N	N	N	N	N	N	N	30	N	N	10	<.01	50
P181010	50	N	N	N	N	N	N	N	700	N	<200	N	<.01	50
P181020	20	N	N	N	N	N	N	<10	100	N	N	10	<.01	50
P181030	15	N	N	N	N	N	N	<10	20	N	N	10	.02	51
P181040	20	N	N	N	N	N	N	20	<20	N	N	30	.02	51
P181050	50	N	N	N	N	N	N	15	70	N	N	20	.02	51
P181060	20	N	N	N	N	N	N	<10	<20	N	N	15	<.01	51
P181070	20	N	N	N	N	N	N	N	150	N	N	10	.01	51
P181080	10	N	N	N	N	N	N	N	50	N	N	100	<.01	51
P181090	<5	N	N	N	N	N	N	N	<20	N	N	70	<.01	51
P181100	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P181120	20	N	N	N	N	N	N	10	N	N	N	20	<.01	51
P181130	70	N	N	N	N	N	N	<10	<20	N	500	10	<.01	51
P181140	50	N	N	N	N	N	N	<10	500	N	N	50	<.01	51
P181150	30	N	N	N	N	N	N	10	<20	N	N	20	.02	51
P181160	15	N	N	N	N	N	N	N	20	N	N	10	.01	51
P181170	10	N	N	N	N	N	N	<10	N	N	N	20	.01	51
P181180	50	N	N	N	N	N	N	<10	N	N	N	15	.01	51
P181190	20	N	N	N	N	N	N	10	70	N	N	20	<.01	51
P181200	20	N	N	N	N	N	N	<10	30	N	<200	50	.01	51
P181210	70	<10	N	N	N	N	N	10	1,000	N	N	70	.01	51
P181220	10	N	N	N	N	N	N	N	200	N	N	20	<.01	51
P181225	15	N	N	N	N	N	N	N	30	N	N	<10	<.01	51
P181240	100	<10	N	N	N	N	N	N	1,500	N	N	70	<.01	51
P181250	20	N	N	N	N	N	N	N	200	N	N	10	<.01	51
P181260	7	N	N	N	N	N	N	N	30	N	N	<10	<.01	51
P181280	20	N	N	N	N	N	N	N	100	N	N	30	<.01	51
P181290	5	N	N	N	N	N	N	10	50	N	N	30	<.01	51
P181300	20	N	N	N	N	N	N	N	N	N	N	50	<.01	51
P181310	50	N	N	N	N	N	N	<10	300	N	N	20	<.01	51
P181320	7	N	N	N	N	N	N	N	500	N	N	30	<.01	51
P181330	50	N	N	N	N	N	N	<10	200	N	N	30	<.01	51
P181340	30	N	N	N	N	N	N	N	1,000	N	N	20	<.01	51
P181350	15	30	N	N	N	N	N	N	1,000	N	N	15	<.01	51
P181360	20	N	N	N	N	N	N	N	700	N	N	<10	<.01	51
P181380	50	N	N	N	N	N	N	<10	1,000	N	N	20	<.01	51
P181390	15	N	N	N	N	N	N	10	50	N	N	30	<.01	51
P181400	20	N	N	N	N	N	N	<10	500	N	N	15	<.01	51
P181410	30	N	N	N	N	N	N	15	700	N	N	30	<.01	51
P181420	20	<10	N	N	N	N	N	20	N	N	N	30	.01	51
P181425	30	<10	N	N	N	N	N	<10	1,000	N	N	10	<.01	51
P181440	15	N	N	N	N	N	N	N	1,000	N	N	50	<.01	51
P181450	5	N	N	N	N	N	N	N	30	N	N	15	<.01	51

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P181460	37 1 10	89 29 21	.15	3	.15	1	N	.02	N	<200	N	10
P181470	37 1 10	89 29 21	.15	2	.2	1	N	.03	N	N	N	<10
P181480	37 1 10	89 29 21	.15	3	.1	1.5	N	.03	N	N	N	<10
P181490	37 1 10	89 29 21	.1	2	.07	1	N	.02	N	N	N	N
P181500	37 1 10	89 29 21	.05	3	.1	.7	N	.02	N	N	N	10
P181510	37 1 10	89 29 21	.05	5	.07	1	N	.03	N	N	N	10
P181520	37 1 10	89 29 21	.2	3	.2	1.5	N	.05	N	N	N	10
P181530	37 1 10	89 29 21	.1	3	.2	1	N	.07	N	N	N	15
P181540	37 1 10	89 29 21	.2	3	.3	.5	N	.1	N	N	N	20
P181550	37 1 10	89 29 21	<.05	1	.05	.5	N	.015	N	N	N	N
P181560	37 1 10	89 29 21	.07	2	.1	.7	N	.05	N	N	N	<10
P181570	37 1 10	89 29 21	.05	1.5	.07	.3	N	.03	N	N	N	<10
P181580	37 1 10	89 29 21	.05	3	.07	<.2	N	.07	N	N	N	10
P181590	37 1 10	89 29 21	.05	1	.07	.5	N	.02	N	N	N	10
P181600	37 1 10	89 29 21	<.05	1	.1	.5	N	.03	N	N	N	N
P181610	37 1 10	89 29 21	<.05	.7	.07	.2	N	.05	N	N	N	<10
P181620	37 1 10	89 29 21	N	.5	.02	.2	N	.015	N	N	N	N
P181630	37 1 10	89 29 21	<.05	1.5	.1	.5	N	.05	N	N	N	10
P181640	37 1 10	89 29 21	N	.7	.02	N	N	.02	N	N	N	N
P181650	37 1 10	89 29 21	<.05	2	.15	.3	N	.07	N	N	N	<10
P181660	37 1 10	89 29 21	<.05	1	.1	<.2	N	.03	N	N	N	N
P181670	37 1 10	89 29 21	.05	1.5	.2	.7	N	.03	N	N	N	<10
P181680	37 1 10	89 29 21	.1	2	.15	.7	N	.1	N	N	N	10
P181690	37 1 10	89 29 21	.15	3	.2	.7	N	.07	N	N	N	10
P181700	37 1 10	89 29 21	.1	1.5	.15	.7	N	.05	N	N	N	N
P181710	37 1 10	89 29 21	.1	1.5	.15	.7	N	.05	N	N	N	<10
P181720	37 1 10	89 29 21	.05	1.5	.1	.3	N	.07	N	N	N	<10
P181730	37 1 10	89 29 21	.07	2	.1	.5	N	.15	N	N	N	N
P181740	37 1 10	89 29 21	<.05	1	.1	.2	N	.02	N	N	N	N
P181750	37 1 10	89 29 21	N	10	.03	N	N	.01	N	N	N	<10
P181760	37 1 10	89 29 21	N	20	.03	N	N	.01	N	<200	N	N
P181770	37 1 10	89 29 21	N	20	.02	N	N	.007	N	200	N	N
P181780	37 1 10	89 29 21	N	20	.02	N	N	.01	N	<200	N	N
P181790	37 1 10	89 29 21	N	>20	.02	N	N	.005	N	300	N	N
P181800	37 1 10	89 29 21	N	7	<.02	N	N	.005	N	N	N	N
P181810	37 1 10	89 29 21	N	15	.1	N	N	.07	N	N	N	10
P181820	37 1 10	89 29 21	N	20	.03	N	N	.007	N	200	N	N
P181830	37 1 10	89 29 21	N	15	<.02	N	N	.002	N	500	N	N
P181840	37 1 10	89 29 21	N	15	<.02	N	N	.003	N	<200	N	N
P181850	37 1 10	89 29 21	<.05	20	.07	N	N	.007	N	N	N	N
P181860	37 1 10	89 29 21	N	15	<.02	N	N	.005	N	N	N	N
P181870	37 1 10	89 29 21	N	20	<.02	N	N	.005	N	N	N	N
P181880	37 1 10	89 29 21	<.05	15	.07	<.2	N	.015	N	N	N	N
P181890	37 1 10	89 29 21	N	20	.03	N	N	.015	N	N	N	N
P181900	37 1 10	89 29 21	N	20	5	N	N	.01	N	N	N	N
P181910	37 1 10	89 29 21	.05	5	.15	<.2	N	.02	N	N	N	10
P181920	37 1 10	89 29 21	<.05	10	.1	N	N	.05	N	N	N	<10
P181930	37 1 10	89 29 21	<.05	7	.1	<.2	N	.03	N	N	N	<10
P181940	37 1 10	89 29 21	N	10	.07	<.2	N	.03	N	N	N	10
P181950	37 1 10	89 29 21	.05	7	.15	.2	N	.02	N	N	N	<10
P181960	37 1 10	89 29 21	<.05	10	.07	N	N	.02	N	N	N	<10
P181970	37 1 10	89 29 21	<.05	5	.07	N	N	.02	N	N	N	<10
P181980	37 1 10	89 29 21	N	10	.05	N	N	.03	N	N	N	<10
P181990	37 1 10	89 29 21	N	10	.05	N	N	.02	N	N	N	<10
P182000	37 1 10	89 29 21	.05	3	.07	.5	N	.02	N	N	N	<10
P182010	37 1 10	89 29 21	<.05	10	.15	N	N	.03	N	N	N	N
P182020	37 1 10	89 29 21	<.05	10	.03	N	N	.015	N	N	N	N
P182030	37 1 10	89 29 21	N	5	.05	N	N	.015	N	N	N	<10
P182040	37 1 10	89 29 21	N	7	.07	N	N	.01	N	N	N	10
P182050	37 1 10	89 29 21	N	7	.07	N	N	.02	N	N	N	10

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P181460	200	N	N	N	<10	N	5	<5	N	N	70	<5	N
P181470	200	N	N	N	<10	<10	15	<5	N	N	100	<5	N
P181480	300	N	N	N	<10	<10	7	<5	N	N	70	5	N
P181490	200	N	N	N	N	10	30	N	N	N	30	<5	N
P181500	150	N	N	N	15	N	10	N	N	N	50	5	N
P181510	150	N	N	N	<10	<10	15	<5	N	N	30	7	N
P181520	200	N	N	N	<10	<10	15	<5	N	N	70	5	N
P181530	150	N	N	N	N	10	20	<5	N	N	20	5	N
P181540	200	N	N	N	20	15	50	<5	N	N	50	7	N
P181550	50	N	N	N	N	N	70	N	N	N	30	N	N
P181560	150	N	N	N	N	<10	15	N	N	N	30	7	N
P181570	150	N	N	N	N	N	15	N	N	N	15	5	N
P181580	70	N	N	N	N	<10	30	N	N	N	50	10	N
P181590	100	N	N	N	N	N	<5	N	N	N	10	N	N
P181600	150	N	N	N	N	15	20	N	N	N	10	5	N
P181610	100	N	N	N	20	N	15	N	N	N	15	5	N
P181620	20	N	N	N	N	N	100	N	N	N	<10	<5	N
P181630	100	N	N	N	<10	10	50	N	N	N	30	7	<20
P181640	30	N	N	N	N	N	20	N	N	N	<10	<5	N
P181650	70	N	N	N	<10	<10	30	N	N	N	50	7	N
P181660	70	N	N	N	N	N	10	N	N	N	15	<5	N
P181670	100	N	N	N	N	<10	15	N	N	N	30	5	N
P181680	200	N	N	N	N	10	10	N	N	N	50	5	N
P181690	150	N	N	N	<10	10	50	N	N	N	70	7	<20
P181700	150	N	N	N	N	N	10	N	N	N	30	<5	N
P181710	100	N	N	N	N	15	15	N	N	N	30	<5	N
P181720	70	N	N	N	<10	<10	15	N	N	N	50	5	N
P181730	70	N	N	N	20	10	30	N	N	N	50	7	N
P181740		N	N	N	N	N	10	N	N	N	10	N	N
P181750	<20	N	N	N	N	N	10	N	N	N	10	20	N
P181760	200	N	N	N	10	N	30	<5	N	N	20	70	N
P181770	N	N	N	N	15	N	20	<5	N	N	15	100	N
P181780	<20	N	N	N	10	N	10	N	N	N	10	50	N
P181790	N	N	N	N	20	N	20	<5	N	N	15	150	N
P181800	<20	N	N	N	N	N	5	N	N	N	<10	7	N
P181810	30	N	N	N	10	N	10	<5	N	N	30	30	N
P181820	N	N	N	N	15	N	15	N	N	N	15	70	N
P181830	N	N	N	N	10	N	30	N	N	N	10	30	N
P181840	N	N	N	N	10	N	10	N	N	N	10	50	N
P181850	<20	N	N	N	15	N	30	N	N	N	10	50	N
P181860	N	N	N	N	10	N	15	N	N	N	<10	30	N
P181870	N	N	N	N	15	15	50	N	N	N	15	50	N
P181880	<20	N	N	N	<10	N	30	N	N	N	<10	20	N
P181890	20	N	N	N	10	N	200	N	N	N	20	30	<20
P181900	<20	N	N	N	10	30	100	N	N	N	20	30	<20
P181910	200	N	N	N	N	<10	10	N	N	N	10	10	N
P181920	50	N	N	N	<10	N	50	N	N	N	15	20	N
P181930	50	N	N	N	<10	10	100	N	N	N	30	20	N
P181940	30	N	N	N	<10	10	150	N	N	N	30	30	N
P181950	70	N	N	N	N	N	70	N	N	N	30	20	N
P181960	30	N	N	N	<10	N	70	N	N	N	30	30	N
P181970	300	N	N	N	N	N	50	N	N	N	10	10	N
P181980	30	N	N	N	<10	N	70	N	N	N	20	20	N
P181990	30	N	N	N	<10	N	70	N	N	N	20	30	N
P182000	100	N	N	N	N	N	5	N	N	N	15	10	N
P182010	70	N	N	N	<10	10	50	N	N	N	20	20	N
P182020	50	N	N	N	10	15	150	N	N	N	50	30	N
P182030	20	N	N	N	N	N	50	N	N	N	20	15	N
P182040	30	N	N	N	N	N	100	N	N	N	20	20	N
P182050	70	N	N	N	N	<10	70	N	N	N	10	20	N

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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 #
P181460	30	N	N	N	N	N	N	<10	30	N	N	15	<.01	51
P181470	15	N	N	N	N	N	N	10	300	N	N	10	<.01	51
P181480	20	N	N	N	N	N	N	<10	N	<10	N	20	<.01	51
P181490	20	N	N	N	N	N	N	<10	150	N	N	15	<.01	51
P181500	20	N	N	N	N	N	N	10	30	N	N	15	<.01	51
P181510	15	N	N	N	N	N	N	10	N	N	N	20	<.01	51
P181520	50	N	N	N	N	N	N	10	70	N	N	15	.01	51
P181530	10	N	N	N	N	N	N	10	100	N	N	30	.02	51
P181540	50	N	N	N	N	N	N	15	100	N	N	50	.02	51
P181550	10	N	N	N	N	N	N	N	100	N	N	10	<.01	51
P181560	50	N	N	N	N	N	N	<10	200	N	N	30	<.01	51
P181570	30	N	N	N	N	N	N	<10	200	N	N	20	<.01	51
P181580	100	N	N	N	N	N	N	10	500	N	N	30	<.01	51
P181590	7	N	N	N	N	N	N	<10	30	N	N	70	<.01	51
P181600	15	N	N	N	N	N	N	<10	300	N	N	50	.01	51
P181610	50	N	N	N	N	N	N	<10	200	N	N	50	<.01	51
P181620	20	N	N	N	N	N	N	N	150	N	N	15	<.01	51
P181630	70	N	N	N	N	N	N	10	1,000	N	N	100	<.01	51
P181640	20	N	N	N	N	N	N	N	500	N	N	20	.01	51
P181650	30	N	N	N	N	N	N	10	700	N	N	50	.01	52
P181660	20	N	N	N	N	N	N	<10	200	N	N	20	<.01	52
P181670	50	30	N	N	N	N	N	10	300	N	N	50	<.01	52
P181680	30	N	N	N	N	N	N	15	150	N	<200	70	<.01	52
P181690	50	N	N	N	N	N	N	20	1,500	N	N	30	.01	52
P181700	20	N	N	N	N	N	N	10	700	N	N	15	<.01	52
P181710	30	N	N	N	N	N	N	10	500	N	N	30	<.01	52
P181720	70	N	N	N	N	N	N	10	300	N	N	20	<.01	52
P181730	100	N	N	N	N	N	N	10	500	N	N	50	<.01	52
P181740	15	N	N	N	N	N	N	<10	200	N	N	15	<.01	52
P181750	20	<10	N	N	N	N	N	N	100	N	N	N	<.01	52
P181760	70	15	N	N	N	N	N	N	150	N	N	N	<.01	52
P181770	100	20	N	N	N	N	N	N	30	N	N	N	<.01	52
P181780	30	15	N	N	N	N	N	N	20	N	N	N	<.01	52
P181790	100	15	N	N	N	N	N	N	200	N	N	N	<.01	52
P181800	15	N	N	N	N	N	N	N	50	N	N	N	<.01	52
P181810	50	<10	N	N	N	N	N	10	20	N	N	20	<.01	52
P181820	70	10	N	N	N	N	N	N	30	N	N	N	<.01	52
P181830	30	20	N	N	N	N	N	N	70	N	N	N	<.01	52
P181840	30	20	N	N	N	N	N	N	N	N	N	N	<.01	52
P181850	100	20	N	N	N	N	N	N	70	N	N	N	<.01	52
P181860	50	15	N	N	N	N	N	N	50	N	N	N	<.01	52
P181870	100	10	N	N	N	N	N	N	500	N	N	N	<.01	52
P181880	30	20	N	N	N	N	N	N	150	N	N	N	<.01	52
P181890	70	<10	N	N	N	N	N	<10	1,000	N	N	N	<.01	52
P181900	200	20	N	N	N	N	N	N	1,500	N	N	<10	<.01	52
P181910	15	N	N	N	N	N	N	10	50	N	N	30	<.01	52
P181920	70	N	N	N	N	N	N	<10	300	N	N	30	<.01	52
P181930	100	N	N	N	N	N	N	10	1,000	N	N	15	<.01	52
P181940	200	10	N	N	N	N	N	<10	1,000	N	N	10	<.01	52
P181950	70	N	N	N	N	N	N	<10	500	N	N	15	<.01	52
P181960	100	<10	N	N	N	N	N	10	700	N	700	10	<.01	52
P181970	30	N	N	N	N	N	N	<10	200	N	N	50	<.01	52
P181980	100	N	N	N	N	N	N	<10	700	N	N	<10	<.01	52
P181990	100	N	N	N	N	N	N	<10	200	N	N	10	<.01	52
P182000	20	N	N	N	N	N	N	<10	20	N	N	<10	<.01	52
P182010	150	<10	N	N	N	N	N	10	200	N	<200	15	.01	52
P182020	300	10	N	N	N	N	N	<10	700	N	N	N	<.01	52
P182030	30	N	N	N	N	N	N	N	300	N	N	<10	<.01	52
P182040	50	N	N	N	N	N	N	N	500	N	N	20	<.01	52
P182050	70	N	N	N	N	N	N	N	200	N	N	30	<.01	52

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P182060	37 1 10	89 29 21	.05	7	.07	<.2	N	.05	N	N	N	10
P182070	37 1 10	89 29 21	<.05	5	.07	.3	N	.03	N	N	N	10
P182080	37 1 10	89 29 21	<.05	3	.1	.2	N	.02	N	N	N	<10
P182090	37 1 10	89 29 21	<.05	7	.07	N	N	.02	N	N	N	<10
P182100	37 1 10	89 29 21	<.05	5	.1	<.2	N	.05	N	N	N	10
P182110	37 1 10	89 29 21	<.05	2	.1	.2	N	.05	N	N	N	10
P182120	37 1 10	89 29 21	N	10	.05	N	N	.02	N	N	N	N
P182130	37 1 10	89 29 21	<.05	1.5	.2	N	N	.1	N	N	N	15
P182140	37 1 10	89 29 21	<.05	1.5	.05	N	N	.05	N	N	N	10
P182150	37 1 10	89 29 21	.05	3	.1	<.2	N	.05	N	N	N	10
P182160	37 1 10	89 29 21	N	5	.15	<.2	N	.07	N	N	N	10
P182170	37 1 10	89 29 21	<.05	7	.2	.2	N	.07	N	N	N	10
P182180	37 1 10	89 29 21	<.05	10	.1	N	N	.02	N	N	N	<10
P182185	37 1 10	89 29 21	N	5	.15	N	N	.03	N	N	N	<10
P182200	37 1 10	89 29 21	N	.7	.07	<.2	N	.03	N	N	N	N
P182210	37 1 10	89 29 21	<.05	.7	.15	.2	N	.03	N	N	N	N
P182220	37 1 10	89 29 21	.05	.7	.15	N	N	.02	N	N	N	N
P182230	37 1 10	89 29 21	<.05	5	.1	<.2	N	.03	N	N	N	<10
P182240	37 1 10	89 29 21	.07	7	.15	.5	N	.05	N	N	N	<10
P182250	37 1 10	89 29 21	<.05	3	.1	.5	N	.07	N	N	N	15
P182260	37 1 10	89 29 21	N	.7	.1	.2	N	.05	N	N	N	10
P182270	37 1 10	89 29 21	N	2	.2	.5	N	.07	N	N	N	15
P182280	37 1 10	89 29 21	<.05	1.5	.3	.3	N	.1	N	N	N	10
P182290	37 1 10	89 29 21	.1	1.5	.15	.7	N	.07	N	N	N	15
P182300	37 1 10	89 29 21	.1	1.5	.2	1	N	.1	N	N	N	15
P182310	37 1 10	89 29 21	.07	3	.15	.5	N	.05	N	N	N	<10
P182320	37 1 10	89 29 21	.1	2	.2	.7	N	.07	N	N	N	10
P182330	37 1 10	89 29 21	.1	5	.15	1	N	.05	N	N	N	<10
P182340	37 1 10	89 29 21	.05	3	.1	1	N	.03	N	N	N	10
P182350	37 1 10	89 29 21	.15	7	.2	1	N	.1	N	N	N	15
P182360	37 1 10	89 29 21	.05	1.5	.1	.5	N	.03	N	N	N	10
P182370	37 1 10	89 29 21	<.05	5	.1	.5	N	.07	N	N	N	10
P182390	37 1 10	89 29 21	.1	1.5	.15	.5	N	.07	N	N	N	15
P182395	37 1 10	89 29 21	.05	1	.15	.5	N	.07	N	N	N	<10
P182400	37 1 10	89 29 21	N	10	<.02	N	N	.015	N	N	N	N
P182410	37 1 10	89 29 21	N	10	.02	N	N	.02	N	200	N	N
P182420	37 1 10	89 29 21	<.05	7	.03	N	N	.015	N	N	N	<10
P182430	37 1 10	89 29 21	N	7	.02	N	N	.03	N	N	N	<10
P182440	37 1 10	89 29 21	<.05	5	.1	N	N	.05	N	N	N	10
P182450	37 1 10	89 29 21	N	7	.05	N	N	.02	N	N	N	<10
P182460	37 1 10	89 29 21	N	10	.05	N	N	.03	N	<200	N	N
P182470	37 1 10	89 29 21	N	10	.07	N	N	.03	N	N	N	N
P182480	37 1 10	89 29 21	N	5	.02	N	N	.02	N	N	N	<10
P182490	37 1 10	89 29 21	N	1.5	.05	N	N	.02	N	N	N	N
P182500	37 1 10	89 29 21	N	5	.1	N	N	.05	N	N	N	<10
P182510	37 1 10	89 29 21	N	7	.07	N	N	.02	N	N	N	<10
P182520	37 1 10	89 29 21	N	1.5	<.02	N	N	.015	N	N	N	N
P182530	37 1 10	89 29 21	N	5	.03	N	N	.02	N	N	N	<10
P182540	37 1 10	89 29 21	N	10	.07	N	N	.05	N	N	N	<10
P182550	37 1 10	89 29 21	N	15	.07	N	N	.05	N	N	N	N
P182560	37 1 10	89 29 21	<.05	10	.15	N	N	.07	N	N	N	N
P182570	37 1 10	89 29 21	.07	5	.5	N	N	.1	N	N	N	10
P182575	37 1 10	89 29 21	.05	3	.3	N	N	.07	N	N	N	<10
P182590	37 1 10	89 29 21	.07	10	.2	N	N	.07	N	N	N	N
P182600	37 1 10	89 29 21	.07	5	.5	N	N	.1	N	N	N	10
P182610	37 1 10	89 29 21	N	7	.05	N	N	.03	N	N	N	<10
P182620	37 1 10	89 29 21	N	10	.1	N	N	.03	N	N	N	N
P182630	37 1 10	89 29 21	<.05	10	.07	<.2	N	.02	N	N	N	<10
P182640	37 1 10	89 29 21	<.05	10	.1	<.2	N	.03	N	N	N	<10
P182650	37 1 10	89 29 21	.05	7	.1	<.2	N	.03	N	N	N	<10

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P182060	100	N	N	N	N	10	70	N	N	N	20	20	<20
P182070	50	N	N	N	N	N	50	N	N	N	20	20	N
P182080	50	N	N	N	N	N	20	N	N	N	10	70	N
P182090	50	N	N	N	<10	<10	500	N	N	N	15	20	<20
P182100	50	N	N	N	N	20	20	N	N	N	10	10	N
P182110	100	N	N	N	N	N	10	N	N	N	<10	5	N
P182120	50	N	N	N	<10	N	15	N	N	N	<10	30	N
P182130	150	N	N	N	N	<10	5	N	N	N	N	<5	N
P182140	50	N	N	N	N	N	7	N	N	N	<10	N	N
P182150	100	N	N	N	N	<10	50	N	N	N	20	15	N
P182160	70	N	N	N	N	<10	30	N	N	N	15	7	N
P182170	100	N	N	N	20	<10	10	N	N	N	10	20	N
P182180	50	N	N	N	N	N	50	N	N	N	20	20	N
P182185	200	N	N	N	<10	<10	100	N	N	N	<10	15	<20
P182200	50	N	N	N	N	N	5	N	N	N	N	N	N
P182210	50	N	N	N	N	N	<5	N	N	N	N	N	N
P182220	30	N	N	N	N	N	10	N	N	N	15	N	N
P182230	50	N	N	N	N	<10	100	N	N	N	20	15	N
P182240	150	N	N	N	20	10	150	N	N	N	50	20	<20
P182250	300	N	N	N	N	<10	50	N	N	N	20	20	<20
P182260	70	N	N	N	N	N	10	N	N	N	<10	<5	N
P182270	500	N	N	N	<10	10	20	N	N	N	<10	5	N
P182280	200	N	N	N	N	15	15	10	N	N	<10	7	N
P182290	200	N	N	N	10	N	7	N	N	N	30	<5	N
P182300	200	N	N	N	N	10	7	5	N	N	30	N	N
P182310	150	N	N	N	<10	<10	100	N	N	N	50	30	<20
P182320	300	N	N	N	N	<10	30	N	N	N	20	5	N
P182330	200	N	N	N	<10	20	30	N	N	N	30	10	N
P182340	150	N	N	N	N	N	30	N	N	N	20	7	N
P182350	200	N	N	N	10	10	500	<5	N	N	50	20	<20
P182360	100	N	N	N	N	N	30	N	N	N	30	<5	N
P182370	700	N	N	N	N	10	100	N	N	N	20	10	<20
P182390	300	N	N	N	N	N	5	N	N	N	30	N	N
P182395	500	N	N	N	N	N	10	N	N	N	20	N	N
P182400	<20	N	N	N	20	N	100	N	N	N	15	15	N
P182410	20	N	N	N	15	N	7	N	N	N	10	15	N
P182420	<20	N	N	N	10	N	20	N	N	N	15	10	N
P182430	70	N	N	N	<10	N	50	N	N	N	10	15	<20
P182440	70	N	N	N	N	N	50	N	N	N	<10	10	N
P182450	20	N	N	N	<10	N	20	N	N	N	<10	15	N
P182460	50	N	N	N	20	N	70	N	N	N	50	20	<20
P182470	70	N	N	N	15	N	10	N	N	N	10	20	N
P182480	30	N	N	N	N	N	50	N	N	N	<10	7	N
P182490	70	N	N	N	N	N	7	N	N	N	<10	<5	N
P182500	100	N	N	N	N	<10	50	N	N	N	<10	10	<20
P182510	500	N	N	N	N	<10	150	N	N	N	10	20	N
P182520	70	N	N	N	N	N	50	N	N	N	N	5	N
P182530	3,000	N	N	N	N	<10	150	N	N	N	20	15	<20
P182540	5,000	N	N	N	<10	N	200	N	N	N	30	15	<20
P182550	>5,000	N	N	N	200	N	20	N	N	N	20	15	<20
P182560	5,000	N	N	N	10	<10	100	N	N	N	50	7	<20
P182570	>5,000	N	N	N	<10	15	20	10	N	N	10	5	N
P182575	>5,000	N	N	N	N	10	30	N	N	N	50	7	N
P182590	>5,000	N	N	N	10	10	500	<5	N	N	200	20	<20
P182600	>5,000	N	N	N	<10	30	100	N	N	N	70	15	N
P182610	2,000	N	N	N	<10	<10	150	N	N	N	30	15	<20
P182620	2,000	N	N	N	15	10	100	N	N	N	20	10	<20
P182630	1,000	N	N	N	10	20	20	N	N	N	50	20	N
P182640	1,500	N	N	N	15	10	200	N	N	N	70	20	<20
P182650	700	N	N	N	10	<10	100	N	N	N	20	10	<20

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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 #
P182060	100	N	N	N	N	N	N	N	700	N	N	20	<.01	52
P182070	100	N	N	N	N	N	N	N	200	N	N	15	<.01	52
P182080	15	N	N	N	N	N	N	<10	300	N	N	15	<.01	52
P182090	70	<10	N	N	N	N	N	N	1,500	N	N	<10	<.01	52
P182100	20	N	N	N	N	N	N	<10	70	N	N	50	<.01	52
P182110	30	N	N	N	N	N	N	<10	200	N	N	20	<.01	52
P182120	70	10	N	N	N	N	N	N	300	N	N	10	<.01	52
P182130	10	N	N	N	N	N	N	10	N	N	N	100	.01	52
P182140	<5	N	N	N	N	N	N	N	150	N	N	15	<.01	52
P182150	50	N	N	N	N	N	N	<10	300	N	N	50	<.01	52
P182160	10	N	N	N	N	N	N	10	20	N	N	30	.01	52
P182170	30	N	N	N	N	N	N	<10	100	N	N	20	.02	52
P182180	50	<10	N	N	N	N	N	<10	100	N	N	15	<.01	52
P182185	50	<10	N	N	N	N	N	<10	1,000	N	N	50	.02	52
P182200	10	N	N	N	N	N	N	N	30	N	N	10	<.01	52
P182210	<5	N	N	N	N	N	N	N	N	N	N	20	<.01	52
P182220	7	N	N	N	N	N	N	N	N	N	N	20	<.01	52
P182230	70	N	N	N	N	N	N	N	150	N	<200	20	.01	52
P182240	150	20	N	N	N	N	N	<10	700	N	N	20	<.01	52
P182250	100	N	N	N	N	N	N	10	1,500	N	N	150	.02	52
P182260	15	N	N	N	N	N	N	<10	200	N	N	20	.01	53
P182270	15	<10	N	N	N	N	N	10	50	N	N	30	.02	53
P182280	20	10	N	N	N	N	N	15	200	N	N	50	.02	53
P182290	15	N	N	N	N	N	N	10	500	N	N	30	<.01	53
P182300	15	<10	N	N	N	N	N	15	100	N	N	50	.01	53
P182310	200	N	N	N	N	N	N	<10	1,000	N	N	15	<.01	53
P182320	20	N	N	N	N	N	N	15	500	N	N	70	<.01	53
P182330	30	N	N	N	N	N	N	10	500	N	<200	15	<.01	53
P182340	50	20	N	N	N	N	N	<10	500	N	<200	20	<.01	53
P182350	200	20	N	N	N	N	N	10	1,000	N	N	70	.01	53
P182360	15	N	N	N	N	N	N	<10	150	N	<200	20	<.01	53
P182370	50	50	N	N	N	N	N	<10	1,000	N	700	30	<.01	53
P182390	10	N	N	N	N	N	N	10	50	N	N	200	<.01	53
P182395	15	N	N	N	N	N	N	10	700	N	N	200	<.01	53
P182400	100	N	N	N	N	N	N	N	500	N	500	N	<.01	53
P182410	200	N	N	N	N	N	N	N	20	N	N	70	<.01	53
P182420	20	N	N	N	N	N	N	N	200	N	N	10	<.01	53
P182430	30	N	N	N	N	N	N	N	700	N	<200	30	<.01	53
P182440	50	15	N	N	N	N	N	<10	300	N	1,500	50	.01	53
P182450	70	15	N	N	N	N	N	<10	300	N	500	30	<.01	53
P182460	500	<10	N	N	N	N	N	<10	1,000	N	300	70	<.01	53
P182470	100	<10	N	N	N	N	N	<10	700	N	<200	30	<.01	53
P182480	20	N	N	N	N	N	N	N	1,000	N	300	20	<.01	53
P182490	20	N	N	N	N	N	N	<10	50	N	<200	20	<.01	53
P182500	70	<10	N	N	N	N	N	10	1,000	N	N	70	<.01	53
P182510	150	20	N	N	N	N	N	N	1,000	N	2,000	50	<.01	53
P182520	20	N	N	N	N	N	N	N	700	N	500	20	<.01	53
P182530	150	30	N	N	N	N	N	N	1,500	N	3,000	70	<.01	53
P182540	50	20	N	N	N	N	N	<10	2,000	N	1,000	70	<.01	53
P182550	70	150	N	N	N	N	N	<10	1,000	N	500	30	<.01	53
P182560	30	30	N	N	N	100	N	10	1,500	N	1,000	70	.01	53
P182570	20	15	N	N	N	300	N	20	<20	N	N	20	.02	53
P182575	50	150	N	N	N	200	N	15	100	N	200	15	.01	53
P182590	200	20	N	N	N	200	N	10	1,000	N	1,500	100	.01	53
P182600	100	20	N	N	N	150	N	20	200	N	700	70	.01	53
P182610	150	70	N	N	N	N	N	N	1,000	N	300	10	<.01	53
P182620	70	150	N	N	N	N	N	<10	1,000	N	500	30	<.01	54
P182630	50	30	N	N	N	N	N	N	150	N	N	20	<.01	54
P182640	200	70	N	N	N	N	N	<10	1,500	N	500	20	<.01	54
P182650	100	100	N	N	N	N	N	<10	1,500	N	<200	20	.01	54

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P18, 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
P182660	37 1 10	89 29 21	<.05	7	.07	N	N	.03	N	N	N	<10
P182670	37 1 10	89 29 21	.05	2	.15	N	N	.07	N	N	N	10
P182680	37 1 10	89 29 21	N	5	.1	N	N	.02	N	N	N	<10
P182690	37 1 10	89 29 21	<.05	7	.1	N	N	.03	N	N	N	<10
P182695	37 1 10	89 29 21	.05	7	.15	<.2	N	.05	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
P182660	300	N	N	N	N	10	150	N	N	N	30	20	<20
P182670	200	N	N	N	N	N	30	N	N	N	<10	7	N
P182680	200	N	N	N	N	N	70	N	N	N	10	10	N
P182690	300	N	N	N	N	150	70	N	N	N	10	20	<20
P182695	150	N	N	N	N	<10	50	N	N	N	15	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 #
P182660	150	20	N	N	N	N	N	N	1,500	N	N	30	<.01	54
P182670	50	<10	N	N	N	N	N	10	300	N	300	15	.02	54
P182680	20	30	N	N	N	N	N	N	500	N	500	15	.01	54
P182690	30	50	N	N	N	N	N	<10	1,500	N	N	30	.01	54
P182695	100	30	N	N	N	N	N	<10	300	N	N	15	<.01	54

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P190050	37 10 14	89 57 9	.5	.2	.7	N	N	.03	N	N	N	15
P190060	37 10 14	89 57 9	.15	.2	.3	N	N	.015	N	N	N	10
P190070	37 10 14	89 57 9	.5	.07	.5	N	N	.007	N	N	N	15
P190080	37 10 14	89 57 9	.2	.05	.2	N	N	.01	N	N	N	10
P190090	37 10 14	89 57 9	.1	.2	.1	N	N	.02	N	N	N	15
P190100	37 10 14	89 57 9	.15	1	.15	N	N	.02	N	N	N	15
P190110	37 10 14	89 57 9	.1	.7	.15	N	N	.02	N	N	N	10
P190120	37 10 14	89 57 9	.05	1.5	.2	N	N	.1	N	N	N	20
P190130	37 10 14	89 57 9	.05	1	1	<.2	N	.5	<.5	N	N	30
P190140	37 10 14	89 57 9	.05	.15	.1	N	N	.05	<.5	N	N	20
P190150	37 10 14	89 57 9	.05	.3	.2	N	N	.07	N	N	N	30
P190160	37 10 14	89 57 9	.07	1.5	1	<.2	N	.3	N	N	N	50
P190170	37 10 14	89 57 9	1	1	1.5	N	N	.15	<.5	N	N	30
P190180	37 10 14	89 57 9	.7	2	1	N	N	.15	N	N	N	30
P190190	37 10 14	89 57 9	.05	.3	.1	N	N	.02	N	N	N	<10
P190200	37 10 14	89 57 9	.07	.3	.1	N	N	.015	N	N	N	10
P190210	37 10 14	89 57 9	.07	1	.2	N	N	.05	N	N	N	20
P190220	37 10 14	89 57 9	.2	.7	.5	N	N	.07	N	N	N	10
P190230	37 10 14	89 57 9	.3	1.5	1.5	N	N	.1	N	N	N	15
P190240	37 10 14	89 57 9	.2	1	1	N	N	.07	N	N	N	20
P190250	37 10 14	89 57 9	.2	.5	.7	N	N	.05	N	N	N	15
P190260	37 10 14	89 57 9	<.05	.7	.15	N	<.2	.03	N	N	N	<10
P190270	37 10 14	89 57 9	.15	2	.5	N	N	.1	N	N	N	10
P190280	37 10 14	89 57 9	.07	.3	.1	N	N	.015	N	N	N	15
P190290	37 10 14	89 57 9	.07	.5	.2	N	N	.03	N	N	N	10
P190300	37 10 14	89 57 9	.2	.7	.3	N	N	.02	N	N	N	15
P190310	37 10 14	89 57 9	.15	.5	.3	N	N	.03	N	N	N	10
P190320	37 10 14	89 57 9	.07	.5	.2	N	N	.05	N	N	N	15
P190330	37 10 14	89 57 9	.07	.7	.15	N	N	.02	N	N	N	<10
P190340	37 10 14	89 57 9	.07	.7	.1	N	N	.015	N	N	N	10
P190350	37 10 14	89 57 9	1	3	1	N	N	.03	N	N	N	15
P190360	37 10 14	89 57 9	<.05	1.5	.1	N	N	.03	N	N	N	<10
P190370	37 10 14	89 57 9	.07	2	.2	N	N	.05	N	N	N	10
P190380	37 10 14	89 57 9	.1	.3	.2	N	N	.01	N	N	N	15
P190390	37 10 14	89 57 9	.05	2	.7	<.2	N	.15	N	N	N	30
P190400	37 10 14	89 57 9	N	.3	.07	N	N	.03	N	N	N	N
P190410	37 10 14	89 57 9	.07	.7	.5	N	N	.07	N	N	N	15
P190420	37 10 14	89 57 9	.07	1.5	1	N	N	.15	N	N	N	20
P190430	37 10 14	89 57 9	<.05	1.5	.3	N	N	.1	N	N	N	20
P190440	37 10 14	89 57 9	<.05	1	.3	N	N	.07	N	N	N	20
P190450	37 10 14	89 57 9	.05	1	.5	N	N	.05	N	N	N	15
P190460	37 10 14	89 57 9	.7	1	1	N	N	.07	N	N	N	20
P190470	37 10 14	89 57 9	.5	1.5	1	N	N	.1	.5	N	N	30
P190480	37 10 14	89 57 9	.7	1	1	N	N	.07	N	N	N	20
P190490	37 10 14	89 57 9	.15	1	.5	N	N	.1	N	N	N	50
P190500	37 10 14	89 57 9	.15	.7	.2	N	N	.05	N	N	N	20
P190510	37 10 14	89 57 9	.1	2	.5	N	N	.15	N	N	N	30
P190520	37 10 14	89 57 9	.5	1.5	.5	N	N	.05	N	N	N	20
P190530	37 10 14	89 57 9	.05	.7	.1	N	N	.03	N	N	N	10
P190540	37 10 14	89 57 9	.15	3	.5	N	N	.15	N	N	N	20
P190550	37 10 14	89 57 9	.2	1.5	.3	N	N	.05	N	N	N	50
P190560	37 10 14	89 57 9	.15	1.5	.5	N	N	.1	N	N	N	50
P190570	37 10 14	89 57 9	<.05	1	.07	N	N	.02	N	N	N	15
P190580	37 10 14	89 57 9	.1	2	.5	N	N	.1	N	N	N	70
P190590	37 10 14	89 57 9	.05	.7	.1	N	N	.05	N	N	N	20
P190600	37 10 14	89 57 9	1.5	.5	1	N	N	.015	N	N	N	N
P190610	37 10 14	89 57 9	.3	3	.5	N	N	.01	N	N	N	10
P190620	37 10 14	89 57 9	<.05	.7	.07	N	N	.02	N	N	N	15
P190630	37 10 14	89 57 9	.15	.3	.2	N	N	.03	<.5	N	N	10
P190640	37 10 14	89 57 9	.05	2	.3	N	N	.07	N	N	N	20

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P190050	50	N	N	N	N	N	<5	N	N	N	<10	N	N
P190060	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
P190070	<20	N	N	N	N	N	N	N	N	N	<10	N	N
P190080	20	N	N	N	N	N	N	N	N	N	N	N	N
P190090	30	N	N	N	N	N	N	N	N	N	<10	N	N
P190100	50	N	N	N	N	N	<5	N	N	N	10	N	N
P190110	30	N	N	N	N	N	7	N	N	N	30	N	N
P190120	100	N	N	N	N	<10	5	N	N	N	<10	N	N
P190130	300	N	N	N	N	70	<5	50	N	N	<10	N	<20
P190140	100	N	N	N	N	N	N	N	N	N	70	N	N
P190150	70	N	N	N	N	<10	<5	N	N	N	N	N	N
P190160	200	N	N	N	N	100	15	50	N	N	<10	N	<20
P190170	100	N	N	N	N	10	30	20	N	N	<10	N	N
P190180	100	N	N	N	N	10	20	20	N	N	50	N	N
P190190	30	N	N	N	N	N	<5	N	N	N	N	N	N
P190200	50	N	N	N	N	N	<5	N	N	N	N	N	N
P190210	30	N	N	N	N	N	7	N	N	N	N	N	N
P190220	70	N	N	N	N	<10	5	<5	N	N	N	N	N
P190230	70	N	N	N	N	20	15	20	N	N	<10	<5	N
P190240	70	N	N	N	N	15	10	20	N	N	<10	<5	N
P190250	50	N	N	N	N	N	<5	N	N	N	<10	N	N
P190260	50	N	N	N	N	N	7	N	N	N	<10	N	N
P190270	70	N	N	N	N	10	20	5	N	N	15	<5	N
P190280	20	N	N	N	N	N	<5	N	N	N	<10	N	N
P190290	30	N	N	N	N	N	<5	N	N	N	N	N	N
P190300	30	N	N	N	N	N	7	N	N	N	<10	N	N
P190310	70	N	N	N	N	N	<5	N	N	N	<10	N	N
P190320	50	N	N	N	N	N	5	N	N	N	<10	N	N
P190330	30	N	N	N	N	N	5	N	N	N	<10	N	N
P190340	30	N	N	N	N	N	<5	N	N	N	N	N	N
P190350	30	N	N	N	N	N	10	<5	N	N	<10	N	N
P190360	50	N	N	N	N	N	5	<5	N	N	10	N	N
P190370	50	N	N	N	N	N	15	<5	N	N	15	N	N
P190380	20	N	N	N	N	N	N	N	N	N	<10	N	N
P190390	200	N	N	N	N	15	15	15	N	N	15	<5	N
P190400	30	N	N	N	N	N	N	N	N	N	N	N	N
P190410	150	N	N	N	N	<10	N	N	N	N	<10	N	N
P190420	200	N	N	N	N	15	10	20	N	N	10	N	N
P190430	70	N	N	N	N	<10	7	<5	N	N	<10	N	N
P190440	100	N	N	N	N	N	5	<5	N	N	N	N	N
P190450	150	N	N	N	N	<10	5	5	N	N	<10	N	N
P190460	70	N	N	N	N	<10	7	N	N	N	<10	N	N
P190470	100	N	N	N	N	10	10	<5	N	N	<10	N	N
P190480	70	N	N	N	N	15	7	5	N	N	<10	N	N
P190490	70	N	N	N	N	10	10	N	N	N	<10	N	N
P190500	150	N	N	N	N	N	<5	N	N	N	N	N	N
P190510	200	<1	N	N	N	15	15	<5	N	N	<10	N	N
P190520	70	N	N	N	N	N	10	N	N	N	N	N	N
P190530	100	N	N	N	N	N	5	N	N	N	N	N	N
P190540	200	<1	N	N	N	15	20	5	N	N	10	<5	N
P190550	50	N	N	N	N	<10	7	N	N	N	N	N	N
P190560	100	N	N	N	N	10	15	<5	N	N	<10	N	N
P190570	50	N	N	N	N	N	5	N	N	N	N	N	N
P190580	100	N	N	N	N	<10	7	<5	N	N	<10	<5	N
P190590	50	N	N	N	N	N	7	N	N	N	<10	N	N
P190600	30	N	N	N	N	N	<5	N	N	N	10	N	N
P190610	<20	N	N	N	N	N	20	N	N	N	10	N	N
P190620	20	N	N	N	N	N	<5	N	N	N	N	N	N
P190630	20	N	N	N	N	N	5	N	N	N	N	N	N
P190640	30	N	N	N	N	<10	10	<5	N	N	<10	N	N

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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 #
P190050	N	N	N	N	N	N	N	<10	N	N	N	20	N	51,52
P190060	N	N	N	N	N	N	N	N	N	N	N	<10	.01	51,52
P190070	N	N	N	N	N	N	N	N	N	N	N	N	N	51,52
P190080	N	N	N	N	N	N	N	N	N	N	N	10	N	51,52
P190090	N	N	N	N	N	N	N	N	N	N	N	<10	N	51,52
P190100	<5	N	N	N	N	N	N	<10	N	N	N	10	N	51,52
P190110	<5	N	N	N	N	N	N	<10	N	N	N	10	<.01	51,52
P190120	5	N	N	N	N	N	N	10	N	N	N	30	.01	51,52
P190130	<5	N	N	<5	N	N	N	50	N	N	N	70	.08	51,52
P190140	N	N	N	N	N	N	N	<10	N	N	N	15	N	51,52
P190150	N	N	N	N	N	N	N	10	N	N	N	20	.02	51,52
P190160	5	10	N	<5	N	N	N	50	N	N	N	70	.11	51,52
P190170	7	<10	N	N	N	N	N	15	N	N	N	20	.04	51,52
P190180	7	15	N	N	N	N	N	15	N	N	N	15	.05	51,52
P190190	N	N	N	N	N	N	N	N	N	N	N	<10	N	51,52
P190200	N	N	N	N	N	N	N	N	N	N	N	15	N	51,52
P190210	5	N	N	N	N	N	N	<10	N	N	N	10	.02	51,52
P190220	<5	N	N	N	N	N	N	<10	N	N	N	30	.03	51,52
P190230	7	20	N	N	N	N	N	15	N	N	N	15	.08	51,52
P190240	7	10	N	N	N	N	N	15	N	N	N	15	.03	51,52
P190250	N	N	N	N	N	N	N	10	N	N	N	30	.01	51,52
P190260	5	N	N	N	N	N	N	<10	N	N	200	15	.01	51,52
P190270	10	15	N	N	N	N	N	15	N	N	N	20	.02	51,52
P190280	N	N	N	N	N	N	N	N	N	N	N	N	N	51,52
P190290	<5	N	N	N	N	N	N	N	N	N	N	10	.01	51,52
P190300	<5	N	N	N	N	N	N	N	N	N	N	<10	N	51,52
P190310	<5	N	N	N	N	N	N	<10	N	N	N	20	.02	51,52
P190320	<5	N	N	N	N	N	N	<10	N	N	N	15	.01	51,52
P190330	<5	N	N	N	N	N	N	<10	N	N	N	<10	N	51,52
P190340	N	N	N	N	N	N	N	N	N	N	N	10	N	51,52
P190350	5	20	N	N	N	N	N	<10	N	N	N	15	.01	51,52
P190360	7	N	N	N	N	N	N	<10	N	N	N	15	.02	51,52
P190370	7	<10	N	N	N	N	N	<10	N	N	<200	50	.02	51,52
P190380	N	N	N	N	N	N	N	N	N	N	N	N	N	51,52
P190390	10	15	N	N	N	N	N	20	N	N	N	50	.04	51,52
P190400	N	N	N	N	N	N	N	N	N	N	N	10	N	51,52
P190410	N	N	N	N	N	N	N	10	N	N	N	70	.02	51,52
P190420	5	15	N	N	N	N	N	15	N	N	N	70	.03	51,52
P190430	5	15	N	N	N	N	N	10	N	N	N	30	.02	51,52
P190440	<5	N	N	N	N	N	N	10	N	N	N	20	.02	51,52
P190450	5	<10	N	N	N	N	N	<10	N	N	N	50	.05	51,52
P190460	5	<10	N	N	N	N	N	10	N	N	N	20	.04	51,52
P190470	7	15	N	N	N	N	N	20	N	N	N	50	.05	51,52
P190480	5	15	N	N	N	N	N	10	N	N	N	15	.06	51,52
P190490	7	15	N	N	N	N	N	15	N	N	N	30	.05	51,52
P190500	<5	N	N	N	N	N	N	<10	N	N	N	100	.02	51,52
P190510	10	20	N	N	N	N	N	15	N	N	N	150	.05	51,52
P190520	5	15	N	N	N	N	N	<10	N	N	N	20	.02	53
P190530	<5	10	N	N	N	N	N	N	N	N	N	30	.01	53
P190540	20	30	N	N	N	N	N	20	N	N	N	200	.04	53
P190550	5	<10	N	N	N	N	N	<10	N	N	N	30	.04	53
P190560	5	15	N	N	N	N	N	15	N	N	N	50	.04	53
P190570	5	N	N	N	N	N	N	N	N	N	N	30	.01	53
P190580	7	15	N	N	N	N	N	15	N	N	N	100	.04	53
P190590	<5	N	N	N	N	N	N	<10	N	N	N	15	.02	53
P190600	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	53
P190610	<5	10	N	N	N	N	N	<10	N	N	N	N	<.01	53
P190620	<5	N	N	N	N	N	N	N	N	N	N	N	.01	53
P190630	<5	N	N	N	N	N	N	N	N	N	N	<10	.02	53
P190640	7	10	N	N	N	N	N	10	N	N	N	10	.04	53

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P190650	37 10 14	89 57 9	<.05	3	.07	N	N	.01	N	N	N	10
P190660	37 10 14	89 57 9	N	1.5	.05	N	N	.02	N	N	N	15
P190670	37 10 14	89 57 9	.15	2	1	N	N	.2	N	N	N	70
P190680	37 10 14	89 57 9	N	.5	.03	N	N	.007	N	N	N	10
P190690	37 10 14	89 57 9	N	.5	.02	N	N	.005	N	N	N	10
P190700	37 10 14	89 57 9	<.05	2	1	<.2	N	.2	<.5	N	N	50
P190706	37 10 14	89 57 9	N	1.5	.05	N	N	.07	N	N	N	10
P190711	37 10 14	89 57 9	N	.07	<.02	N	N	.002	N	N	N	20
P190714	37 10 14	89 57 9	N	5	.05	N	N	.015	.5	N	N	10
P190717	37 10 14	89 57 9	<.05	1.5	.5	N	N	.1	N	N	N	50
P190720	37 10 14	89 57 9	N	.7	.07	N	N	.015	N	N	N	15
P190729	37 10 14	89 57 9	N	.07	<.02	N	N	.003	N	N	N	N
P190733	37 10 14	89 57 9	N	.1	.02	N	N	.015	N	N	N	<10
P190735	37 10 14	89 57 9	N	.2	.02	N	N	.01	N	N	N	<10
P190742	37 10 14	89 57 9	N	.05	<.02	N	N	.005	N	N	N	N
P190745	37 10 14	89 57 9	<.05	.7	.15	N	N	.07	N	N	N	10
P190755	37 10 14	89 57 9	N	.3	.03	N	N	.01	N	N	N	N
P190772	37 10 14	89 57 9	N	.2	.05	N	N	.01	N	N	N	<10
P190780	37 10 14	89 57 9	N	.1	.2	N	N	.02	N	N	N	20
P190787	37 10 14	89 57 9	N	.15	.15	N	N	.02	N	N	N	20
P190793	37 10 14	89 57 9	N	.3	.05	N	N	.007	N	N	N	15
P190794	37 10 14	89 57 9	<.05	.2	.07	N	N	.1	N	N	N	20
P190805	37 10 14	89 57 9	N	.07	<.02	N	N	.002	N	N	N	N
P190814	37 10 14	89 57 9	N	.15	.07	N	N	.015	N	N	N	10
P190820	37 10 14	89 57 9	N	.7	.05	N	N	.01	N	N	N	15
P190830	37 10 14	89 57 9	N	.1	.03	N	N	.005	N	N	N	N
P190840	37 10 14	89 57 9	N	<.05	.02	N	N	.003	N	N	N	N
P190855	37 10 14	89 57 9	N	<.05	<.02	N	N	.003	N	N	N	N
P190860	37 10 14	89 57 9	N	5	.3	N	N	.1	N	N	N	20
P190870	37 10 14	89 57 9	N	1.5	.05	N	N	.02	N	N	N	10
P190880	37 10 14	89 57 9	N	.5	<.02	N	N	.003	N	N	N	<10
P190890	37 10 14	89 57 9	N	.1	.02	N	N	.005	N	N	N	N
P190900	37 10 14	89 57 9	N	.15	.15	N	N	.02	N	N	N	15
P190905	37 10 14	89 57 9	.07	.7	.7	N	N	.07	N	N	N	70
P190920	37 10 14	89 57 9	<.05	.3	.15	N	N	.03	N	N	N	15
P190930	37 10 14	89 57 9	N	.3	.1	N	N	.03	N	N	N	10
P190940	37 10 14	89 57 9	N	.5	.05	N	N	.015	N	N	N	N
P190950	37 10 14	89 57 9	<.05	3	.1	N	N	.05	N	N	N	10
P190960	37 10 14	89 57 9	N	.2	.02	N	N	.005	N	N	N	N
P190970	37 10 14	89 57 9	N	.3	<.02	N	N	.005	N	N	N	N
P190980	37 10 14	89 57 9	N	.7	<.02	N	N	.005	N	N	N	<10
P190990	37 10 14	89 57 9	N	1	.02	N	N	.015	<.5	N	N	<10
P191000	37 10 14	89 57 9	N	.3	<.02	N	N	.005	N	N	N	N
P191010	37 10 14	89 57 9	N	.2	.02	N	N	.01	N	N	N	N
P191020	37 10 14	89 57 9	N	.3	.05	N	N	.02	N	N	N	10
P191030	37 10 14	89 57 9	N	5	.3	N	N	.07	1.5	N	N	30
P191040	37 10 14	89 57 9	<.05	2	.15	N	N	.05	2	N	N	30
P191050	37 10 14	89 57 9	N	3	.2	N	N	.05	1.5	N	N	20
P191060	37 10 14	89 57 9	N	3	.15	N	N	.05	1	N	N	20
P191065	37 10 14	89 57 9	N	1.5	.05	N	N	.01	.7	N	N	N
P191080	37 10 14	89 57 9	N	.3	.02	N	N	.015	N	N	N	N
P191090	37 10 14	89 57 9	N	.5	<.02	N	N	.01	N	N	N	N
P191100	37 10 14	89 57 9	<.05	1	.05	N	N	.02	N	N	N	N
P191110	37 10 14	89 57 9	N	1	.02	N	N	.01	N	N	N	N
P191120	37 10 14	89 57 9	N	.2	<.02	N	N	.002	N	N	N	N
P191130	37 10 14	89 57 9	N	.7	<.02	N	N	.005	N	N	N	N
P191143	37 10 14	89 57 9	N	1	.15	N	N	.05	N	N	N	20
P191150	37 10 14	89 57 9	N	.2	<.02	N	N	.007	N	N	N	15
P191160	37 10 14	89 57 9	N	.15	<.02	N	N	.002	N	N	N	<10
P191165	37 10 14	89 57 9	<.05	1	.1	N	N	.03	N	N	N	20

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P190650	<20	N	N	N	N	N	15	N	N	N	<10	N	N
P190660	20	N	N	N	N	N	15	N	N	N	N	N	N
P190670	70	N	N	N	N	30	20	20	N	N	<10	N	N
P190680	20	N	N	N	N	N	<5	N	N	N	N	N	N
P190690	20	N	N	N	N	N	<5	N	N	N	N	N	N
P190700	150	N	N	N	N	50	20	30	N	N	<10	N	N
P190706	70	N	N	N	N	N	20	N	N	N	30	N	N
P190711	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190714	30	N	N	N	N	N	70	N	N	N	15	5	N
P190717	50	N	N	N	N	15	15	10	N	N	10	7	N
P190720	20	N	N	N	N	N	5	N	N	N	<10	N	N
P190729	N	N	N	N	100	<10	N	N	N	N	N	N	N
P190733	<20	N	N	N	100	N	N	N	N	N	<10	N	N
P190735	30	N	N	N	<10	N	<5	N	N	N	<10	N	N
P190742	N	N	N	N	N	N	N	N	N	N	N	N	N
P190745	30	N	N	N	<10	N	5	N	N	N	10	N	N
P190755	300	N	N	N	N	N	5	N	N	N	1,000	N	N
P190772	100	N	N	N	N	N	<5	N	N	N	500	N	N
P190780	<20	N	N	N	N	<10	N	N	N	N	N	N	N
P190787	<20	N	N	N	N	N	<5	N	N	N	10	N	N
P190793	<20	N	N	N	N	N	5	N	N	N	10	N	N
P190794	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190805	N	N	N	N	N	N	N	N	N	N	N	N	N
P190814	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P190820	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190830	N	N	N	N	N	N	N	N	N	N	N	N	N
P190840	N	N	N	N	N	N	N	N	N	N	N	N	N
P190855	N	N	N	N	N	N	N	N	N	N	N	N	N
P190860	70	1	N	N	<10	10	70	<5	N	N	100	5	N
P190870	50	N	N	N	N	N	15	N	N	N	500	N	N
P190880	<20	N	N	N	N	N	<5	N	N	N	50	N	N
P190890	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190900	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190905	20	N	N	N	N	15	5	<5	N	N	N	N	N
P190920	20	N	N	N	N	N	N	N	N	N	N	N	N
P190930	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P190940	N	N	N	N	N	N	<5	N	N	N	<10	N	N
P190950	70	<1	N	N	N	N	30	N	N	N	20	5	N
P190960	<20	N	N	N	N	N	N	N	N	N	N	N	N
P190970	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P190980	N	N	N	N	N	N	7	N	N	N	<10	N	N
P190990	30	N	N	N	N	N	100	N	N	N	30	N	N
P191000	20	N	N	N	N	N	<5	N	N	N	N	N	N
P191010	30	N	N	N	N	N	N	N	N	N	N	N	N
P191020	20	N	N	N	N	N	5	N	N	N	N	N	N
P191030	50	<1	N	N	<10	10	70	5	N	N	30	<5	N
P191040	30	N	N	N	<10	<10	50	N	N	N	50	<5	N
P191050	20	<1	N	N	<10	10	70	<5	N	N	20	<5	N
P191060	<20	N	N	N	N	10	30	N	N	N	20	<5	N
P191065	N	N	N	N	N	N	20	N	N	N	<10	N	N
P191080	<20	N	N	N	N	N	5	N	N	N	N	N	N
P191090	20	N	N	N	N	N	5	N	N	N	N	N	N
P191100	20	N	N	N	N	N	15	N	N	N	30	N	N
P191110	<20	N	N	N	N	N	7	N	N	N	15	N	N
P191120	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P191130	N	N	N	N	N	N	<5	N	N	N	<10	N	N
P191143	20	N	N	N	N	N	10	N	N	N	N	N	N
P191150	<20	N	N	N	N	N	N	N	N	N	N	N	N
P191160	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191165	30	N	N	N	N	N	7	N	N	N	10	N	N

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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 #
P190650	5	<10	N	N	N	N	N	N	N	N	N	<10	<.01	53
P190660	<5	N	N	N	N	N	N	<10	N	N	N	10	.02	53
P190670	10	20	N	N	N	N	N	30	N	N	N	30	.05	53
P190680	<5	N	N	N	N	N	N	N	N	N	N	15	<.01	53
P190690	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P190700	15	50	N	N	N	N	N	50	N	N	N	20	.05	54
P190706	<5	N	N	N	N	N	N	10	N	N	N	30	<.01	54
P190711	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190714	7	30	N	N	N	N	N	N	N	N	N	<10	.01	54
P190717	7	15	N	N	N	N	N	15	N	N	N	10	.04	54
P190720	N	N	N	N	N	N	N	N	N	N	N	<10	.01	54
P190729	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190733	<5	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P190735	N	N	N	N	N	N	N	N	N	N	N	10	<.01	54
P190742	N	N	N	N	N	N	N	N	N	N	N	30	<.01	54
P190745	<5	N	N	N	N	N	N	10	N	N	N	50	.01	54
P190755	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190772	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190780	N	N	N	N	N	N	N	10	N	N	N	N	.06	54
P190787	N	N	N	N	N	N	N	<10	N	N	N	N	.03	54
P190793	N	N	N	N	N	N	N	N	N	N	N	N	.01	54
P190794	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190805	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190814	N	N	N	N	N	N	N	<10	N	N	N	10	<.01	54
P190820	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P190830	N	N	N	N	N	N	N	N	N	N	N	15	<.01	54
P190840	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P190855	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P190860	20	15	N	N	N	N	N	30	N	N	<200	30	.04	54
P190870	5	N	N	N	N	N	N	<10	N	N	N	30	.01	54
P190880	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P190890	N	N	N	N	N	N	N	N	N	N	N	15	<.01	54
P190900	N	N	N	N	N	N	N	<10	N	N	N	10	.01	54
P190905	<5	N	N	N	N	N	N	20	N	N	N	15	.04	54
P190920	<5	N	N	N	N	N	N	15	N	N	N	<10	.03	54
P190930	<5	N	N	N	N	N	N	10	N	N	N	10	.02	54
P190940	N	N	N	N	N	N	N	<10	N	N	N	<10	.02	54
P190950	5	<10	N	N	N	N	N	15	N	N	<200	15	.02	55
P190960	N	N	N	N	N	N	N	N	N	N	N	10	<.01	55
P190970	N	N	N	N	N	N	N	N	N	N	N	10	<.01	55
P190980	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P190990	<5	N	N	N	N	N	N	<10	N	N	<200	10	<.01	55
P191000	N	N	N	N	N	N	N	N	N	N	N	15	<.01	55
P191010	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	55
P191020	N	20	N	N	N	N	N	<10	N	N	N	<10	.01	55
P191030	10	200	N	N	N	N	N	50	N	N	N	50	.05	55
P191040	7	100	N	N	N	N	N	20	N	N	N	10	.04	55
P191050	10	150	N	N	N	N	N	30	N	N	N	<10	.07	55
P191060	10	30	N	N	N	N	N	30	N	N	N	30	.03	55
P191065	5	100	N	N	N	N	N	10	N	N	N	<10	.02	55
P191080	N	N	N	N	N	N	N	N	N	N	N	10	<.01	55
P191090	N	<10	N	N	N	N	N	N	N	N	N	10	<.01	55
P191100	5	N	N	N	N	N	N	<10	N	N	N	N	<.01	55
P191110	5	<10	N	N	N	N	N	<10	N	N	N	N	<.01	55
P191120	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P191130	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	55
P191143	<5	N	N	N	N	N	N	10	N	N	N	N	.03	55
P191150	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P191160	N	N	N	N	N	N	N	N	N	N	N	N	<.01	55
P191165	5	N	N	N	N	N	N	15	N	N	N	15	.02	55

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P191180	37 10 14	89 57 9	<.05	.3	.03	N	N	.007	N	N	N	10
P191190	37 10 14	89 57 9	<.05	2	.5	N	N	.07	.5	N	N	100
P191200	37 10 14	89 57 9	N	.3	.02	N	N	.01	N	N	N	10
P191215	37 10 14	89 57 9	<.05	1.5	.15	N	N	.05	N	N	N	15
P191230	37 10 14	89 57 9	N	.3	.02	N	N	.002	N	N	N	N
P191235	37 10 14	89 57 9	N	.2	.02	N	N	.005	N	N	N	<10
P191260	37 10 14	89 57 9	N	.5	.02	N	N	.007	N	N	N	<10
P191270	37 10 14	89 57 9	<.05	.7	.03	N	N	.01	N	N	N	<10
P191283	37 10 14	89 57 9	N	.15	<.02	N	N	<.002	N	N	N	<10
P191290	37 10 14	89 57 9	N	.2	<.02	N	N	<.002	N	N	N	10
P191300	37 10 14	89 57 9	N	.2	<.02	N	N	N	N	N	N	<10
P191305	37 10 14	89 57 9	<.05	5	.15	N	N	.02	N	N	N	10
P191320	37 10 14	89 57 9	N	1.5	.07	N	N	.015	N	N	N	15
P191335	37 10 14	89 57 9	N	.7	.03	N	N	.01	N	N	N	10
P191345	37 10 14	89 57 9	N	1	.05	N	N	.015	N	N	N	10
P191355	37 10 14	89 57 9	<.05	5	.3	N	N	.07	N	N	N	15
P191370	37 10 14	89 57 9	N	1.5	.1	N	N	.02	N	N	N	10
P191380	37 10 14	89 57 9	N	.7	.05	N	N	.02	N	N	N	15
P191398	37 10 14	89 57 9	N	1	.03	N	N	.015	N	N	N	<10
P191412	37 10 14	89 57 9	<.05	.7	<.02	N	N	.005	N	N	N	N
P191427	37 10 14	89 57 9	N	1	.07	N	N	.03	N	N	N	15
P191443	37 10 14	89 57 9	N	.7	.1	N	N	.03	N	N	N	15
P191447	37 10 14	89 57 9	N	.7	.05	N	N	.02	N	N	N	10
P191459	37 10 14	89 57 9	N	.3	.02	N	N	.007	N	N	N	<10
P191468	37 10 14	89 57 9	N	.7	.15	N	N	.02	<.5	N	N	10
P191476	37 10 14	89 57 9	N	.7	.05	N	N	.015	<.5	N	N	10
P191488	37 10 14	89 57 9	N	.5	.05	N	N	.015	N	N	N	10
P191499	37 10 14	89 57 9	N	.3	.02	N	N	.005	N	N	N	N
P191509	37 10 14	89 57 9	<.05	3	1	N	N	.2	N	N	N	50
P191519	37 10 14	89 57 9	N	1	.1	N	N	.03	N	N	N	10
P191530	37 10 14	89 57 9	N	2	.2	N	N	.07	N	N	N	20
P191540	37 10 14	89 57 9	N	1.5	.2	N	N	.05	N	N	N	15
P191550	37 10 14	89 57 9	<.05	1.5	.15	N	N	.03	N	N	N	10
P191563	37 10 14	89 57 9	N	1	.07	N	N	.015	N	N	N	<10
P191570	37 10 14	89 57 9	<.05	.5	.03	N	N	.01	N	N	N	10
P191583	37 10 14	89 57 9	N	.5	.03	N	N	.015	N	N	N	<10
P191587	37 10 14	89 57 9	N	.7	.05	N	N	.03	N	N	N	10
P191596	37 10 14	89 57 9	N	.7	.07	N	N	.03	<.5	N	N	<10
P191611	37 10 14	89 57 9	N	.3	.02	N	N	.02	N	N	N	10
P191622	37 10 14	89 57 9	N	.2	.03	N	N	.02	N	N	N	<10
P191630	37 10 14	89 57 9	N	.2	.03	N	N	.01	N	N	N	10
P191640	37 10 14	89 57 9	N	.3	.05	N	N	.015	N	N	N	N
P191649	37 10 14	89 57 9	N	.7	.1	N	N	.03	N	N	N	<10
P191660	37 10 14	89 57 9	N	5	.07	N	N	.15	N	N	N	10
P191674	37 10 14	89 57 9	.1	1.5	.15	N	N	.02	N	N	N	<10
P191682	37 10 14	89 57 9	N	.5	.03	N	N	.03	N	N	N	<10
P191690	37 10 14	89 57 9	N	.1	<.02	N	N	.003	N	N	N	N
P191708	37 10 14	89 57 9	N	.1	.02	N	N	.003	N	N	N	N
P191725	37 10 14	89 57 9	N	.05	<.02	N	N	.01	N	N	N	10

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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
P191180	<20	N	N	N	N	N	10	N	N	N	N	N	N
P191190	20	<1	N	N	<10	<10	30	7	N	N	15	<5	N
P191200	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P191215	20	N	N	N	N	N	15	N	N	N	20	N	N
P191230	N	N	N	N	N	N	N	N	N	N	N	N	N
P191235	N	N	N	N	N	N	N	N	N	N	N	N	N
P191260	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191270	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P191283	<20	N	N	N	N	N	N	N	N	N	N	N	N
P191290	<20	N	N	N	N	N	N	N	N	N	N	N	N
P191300	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P191305	<20	N	N	N	N	N	10	<5	N	N	N	<5	N
P191320	<20	N	N	N	N	N	5	N	N	N	N	N	N
P191335	<20	N	N	N	N	N	5	N	N	N	<10	<5	N
P191345	20	N	N	N	N	N	5	N	N	N	10	10	N
P191355	50	<1	N	N	N	10	20	5	N	N	20	15	N
P191370	<20	N	N	N	N	N	20	N	N	N	<10	<5	N
P191380	<20	N	N	N	N	N	15	N	N	N	N	N	N
P191398	N	N	N	N	N	N	10	N	N	N	<10	<5	N
P191412	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191427	20	N	N	N	N	N	<5	N	N	N	N	N	N
P191443	20	N	N	N	N	N	5	N	N	N	N	N	N
P191447	<20	N	N	N	N	N	5	N	N	N	N	N	N
P191459	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191468	20	N	N	N	N	N	15	N	N	N	N	5	N
P191476	N	N	N	N	N	N	20	N	N	N	N	N	N
P191488	<20	N	N	N	N	N	7	N	N	N	<10	N	N
P191499	N	N	N	N	N	N	5	N	N	N	N	N	N
P191509	70	1.5	N	N	<10	30	50	30	N	N	15	5	N
P191519	<20	N	N	N	N	N	10	N	N	N	N	N	N
P191530	20	<1	N	N	N	<10	15	5	N	N	N	N	N
P191540	20	<1	N	N	N	N	15	<5	N	N	<10	N	N
P191550	<20	N	N	N	N	N	15	N	N	N	<10	N	N
P191563	<20	N	N	N	N	N	15	N	N	N	10	N	N
P191570	20	N	N	N	N	N	<5	N	N	N	50	N	N
P191583	20	N	N	N	N	N	5	N	N	N	20	N	N
P191587	20	N	N	N	N	N	10	N	N	N	15	N	N
P191596	20	N	N	N	N	N	15	N	N	N	15	N	N
P191611	<20	N	N	N	N	N	5	N	N	N	N	N	N
P191622	N	N	N	N	N	N	N	N	N	N	N	N	N
P191630	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191640	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P191649	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
P191660	20	N	N	N	70	100	50	<5	N	N	10	7	N
P191674	N	N	N	N	<10	N	10	N	N	N	70	N	N
P191682	N	N	N	N	N	N	<5	N	N	N	<10	N	N
P191690	N	N	N	N	N	N	<5	N	N	N	N	N	N
P191708	N	N	N	N	N	N	N	N	N	N	N	N	N
P191725	N	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P19, 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 #
P191180	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191190	10	20	N	N	N	N	N	50	N	N	N	15	.04	55
P191200	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191215	7	10	N	N	N	N	N	15	N	N	N	<10	.02	55
P191230	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191235	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191260	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191270	N	N	N	N	N	N	N	<10	N	N	N	N	N	55
P191283	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191290	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191300	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191305	7	200	N	N	N	N	N	15	N	N	N	N	<.01	55
P191320	5	10	N	N	N	N	N	10	N	N	N	N	.01	55
P191335	<5	<10	N	N	N	N	N	<10	N	N	N	N	N	55
P191345	<5	<10	N	N	N	N	N	<10	N	N	N	20	N	55
P191355	15	200	N	N	N	N	N	20	N	N	N	20	.03	55
P191370	<5	<10	N	N	N	N	N	15	N	N	N	10	N	55
P191380	<5	N	N	N	N	N	N	15	N	N	N	15	.01	55
P191398	<5	N	N	N	N	N	N	10	N	N	N	N	N	55
P191412	N	N	N	N	N	N	N	N	N	N	N	N	N	55
P191427	<5	N	N	N	N	N	N	20	N	N	N	10	<.01	55
P191443	<5	N	N	N	N	N	N	20	N	N	N	<10	.02	55
P191447	<5	N	N	N	N	N	N	15	N	N	N	10	.01	55
P191459	<5	N	N	N	N	N	N	<10	N	N	N	N	N	55
P191468	5	20	N	N	N	N	N	30	N	N	N	<10	.02	55
P191476	<5	30	N	N	N	N	N	15	N	N	N	N	.02	55
P191488	<5	N	N	N	N	N	N	10	N	N	N	N	.01	55
P191499	N	N	N	N	N	N	N	<10	N	N	N	N	N	55
P191509	15	100	N	<5	N	N	N	100	N	N	N	50	.11	56
P191519	<5	10	N	N	N	N	N	15	N	N	N	10	.02	56
P191530	7	30	N	N	N	N	N	20	N	N	N	20	.05	56
P191540	5	30	N	N	N	N	N	20	N	N	N	10	.03	63
P191550	5	<10	N	N	N	N	N	15	N	N	N	10	.01	63
P191563	<5	100	N	N	N	N	N	10	N	N	N	N	.01	63
P191570	N	50	N	N	N	N	N	<10	N	N	N	<10	N	63
P191583	N	<10	N	N	N	N	N	10	N	N	N	N	N	63
P191587	5	50	N	N	N	N	N	20	N	N	N	<10	<.01	63
P191596	7	<10	N	N	N	N	N	20	N	N	N	<10	<.01	63
P191611	<5	N	N	N	N	N	N	<10	N	N	N	N	N	63
P191622	N	<10	N	N	N	N	N	10	N	N	N	N	<.01	63
P191630	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P191640	N	N	N	N	N	N	N	N	N	N	N	10	<.01	63
P191649	<5	N	N	N	N	N	N	<10	N	N	N	15	<.01	63
P191660	150	20	N	N	N	N	N	10	N	N	200	100	<.01	63
P191674	15	N	N	N	N	N	N	<10	N	N	<200	20	<.01	63
P191682	<5	N	N	N	N	N	N	N	N	N	N	10	<.01	63
P191690	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P191708	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63
P191725	N	N	N	N	N	N	N	N	N	N	N	N	<.01	63

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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
P200062	37 2 56	89 51 10	N	2	1.5	<.2	N	.15	<.5	N	N	50
P200067	37 2 56	89 51 10	N	1.5	.3	N	N	.05	N	N	N	10
P200087	37 2 56	89 51 10	N	.3	.03	N	N	.015	N	N	N	10
P200097	37 2 56	89 51 10	.07	.7	.2	N	N	.07	N	N	N	15
P200107	37 2 56	89 51 10	.1	.3	.15	N	N	.007	N	N	N	10
P200117	37 2 56	89 51 10	.05	.7	.07	N	N	.005	N	N	N	15
P200127	37 2 56	89 51 10	.07	.15	.1	N	N	.015	N	N	N	10
P200137	37 2 56	89 51 10	.1	1	1	<.2	N	.1	N	N	N	20
P200147	37 2 56	89 51 10	<.05	.7	.2	N	N	.05	N	N	N	15
P200157	37 2 56	89 51 10	.07	1	1	<.2	N	.1	N	N	N	20
P200167	37 2 56	89 51 10	.15	.5	.15	N	N	.01	N	N	N	10
P200177	37 2 56	89 51 10	.07	.7	.02	N	N	.005	N	N	N	N
P200187	37 2 56	89 51 10	.07	.2	.1	N	N	.01	N	N	N	<10
P200197	37 2 56	89 51 10	.05	.3	.07	N	N	.007	N	N	N	N
P200207	37 2 56	89 51 10	.15	.15	.1	N	N	.01	N	N	N	15
P200217	37 2 56	89 51 10	.1	.2	.15	N	N	.015	N	N	N	N
P200227	37 2 56	89 51 10	.07	1	.5	N	N	.07	<.5	N	N	30
P200237	37 2 56	89 51 10	<.05	.1	.07	N	N	.015	N	N	N	<10
P200247	37 2 56	89 51 10	.07	.5	.1	N	N	.02	N	N	N	10
P200257	37 2 56	89 51 10	.1	.1	.1	N	N	.01	N	N	N	N
P200267	37 2 56	89 51 10	.15	.1	.2	N	N	.005	N	N	N	10
P200277	37 2 56	89 51 10	.1	.2	.1	N	N	.01	.5	N	N	15
P200287	37 2 56	89 51 10	.05	.05	.1	N	N	<.002	N	N	N	N
P200297	37 2 56	89 51 10	.15	.1	.2	N	N	.02	N	N	N	15
P200307	37 2 56	89 51 10	<.05	.3	.05	N	N	.015	N	N	N	20
P200317	37 2 56	89 51 10	N	.7	.3	<.2	N	.07	N	N	N	10
P200327	37 2 56	89 51 10	.05	.5	.2	N	N	.05	N	N	N	20
P200337	37 2 56	89 51 10	N	5	.05	N	N	.01	N	N	N	<10
P200347	37 2 56	89 51 10	<.05	.3	.3	N	N	.03	N	N	N	15
P200357	37 2 56	89 51 10	N	.3	.07	N	N	.015	N	N	N	<10
P200367	37 2 56	89 51 10	<.05	3	.05	N	N	.015	N	N	N	15
P200377	37 2 56	89 51 10	N	.5	.2	N	N	.05	N	N	N	15
P200387	37 2 56	89 51 10	N	1	.3	N	N	.07	N	N	N	<10
P200397	37 2 56	89 51 10	.5	.2	.7	N	N	.05	N	N	N	20
P200407	37 2 56	89 51 10	.07	.7	.2	N	N	.02	N	N	N	15
P200417	37 2 56	89 51 10	.15	.3	.15	N	N	.015	N	N	N	15
P200427	37 2 56	89 51 10	.05	.3	.1	N	N	.01	N	N	N	<10
P200437	37 2 56	89 51 10	<.05	1.5	.5	N	N	.05	<.5	N	N	30
P200447	37 2 56	89 51 10	<.05	.5	.15	N	N	.03	N	N	N	20
P200457	37 2 56	89 51 10	.05	.05	.1	N	N	.002	N	N	N	N
P200470	37 2 56	89 51 10	<.05	1.5	.2	N	N	.05	N	N	N	10
P200480	37 2 56	89 51 10	.3	.5	.3	N	N	.02	N	N	N	15
P200485	37 2 56	89 51 10	.07	.2	.2	N	N	.015	N	N	N	N
P200510	37 2 56	89 51 10	<.05	.7	.2	N	N	.05	N	N	N	10
P200520	37 2 56	89 51 10	.05	.5	.3	N	N	.07	N	N	N	15
P200530	37 2 56	89 51 10	N	.2	.15	N	N	.03	N	N	N	15
P200540	37 2 56	89 51 10	.5	1	1	N	N	.1	N	N	N	20
P200550	37 2 56	89 51 10	.2	.7	.5	N	N	.07	N	N	N	20
P200560	37 2 56	89 51 10	N	1	.15	N	N	.05	N	N	N	15
P200570	37 2 56	89 51 10	N	.7	.15	N	N	.05	N	N	N	20
P200580	37 2 56	89 51 10	N	.7	.15	N	N	.07	N	N	N	15
P200590	37 2 56	89 51 10	.15	1	1	N	N	.1	N	N	N	20
P200600	37 2 56	89 51 10	.05	1.5	1	N	N	.2	N	N	N	30
P200610	37 2 56	89 51 10	.07	1.5	.7	N	N	.15	N	N	N	20
P200620	37 2 56	89 51 10	N	.5	.05	N	N	.015	N	N	N	<10
P200630	37 2 56	89 51 10	<.05	1	.15	N	N	.03	N	N	N	10
P200640	37 2 56	89 51 10	N	.7	.1	N	N	.03	N	N	N	N
P200650	37 2 56	89 51 10	.1	.2	.15	N	N	.015	N	N	N	10
P200660	37 2 56	89 51 10	.15	1.5	1	N	N	.15	N	N	N	30
P200670	37 2 56	89 51 10	.07	1	.2	N	N	.05	N	N	N	20

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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
P200062	50	1	N	N	<10	50	50	30	N	N	30	<5	N
P200067	30	N	N	N	<10	<10	15	<5	N	N	70	N	N
P200087	N	N	N	N	N	N	7	N	N	N	N	N	N
P200097	50	N	N	N	N	N	5	<5	N	N	<10	N	N
P200107	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P200117	20	N	N	N	N	N	50	N	N	N	10	N	N
P200127	<20	N	N	N	N	N	N	N	N	N	15	N	N
P200137	70	N	N	N	N	10	10	20	N	N	<10	<5	N
P200147	50	N	N	N	N	N	5	<5	N	N	N	N	N
P200157	150	<1	N	N	N	10	5	10	N	N	<10	N	N
P200167	20	N	N	N	N	N	N	N	N	N	N	N	N
P200177	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P200187	30	N	N	N	N	N	N	N	N	N	N	N	N
P200197	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200207	30	N	N	N	N	N	<5	N	N	N	N	N	N
P200217	N	N	N	N	N	N	N	N	N	N	N	N	N
P200227	70	<1	N	N	N	<10	7	<5	N	N	<10	N	N
P200237	50	N	N	N	N	N	N	N	N	N	N	N	N
P200247	N	N	N	N	N	N	5	N	N	N	N	N	N
P200257	N	N	N	N	N	N	N	N	N	N	N	N	N
P200267	N	N	N	N	N	N	N	N	N	N	N	N	N
P200277	50	N	N	N	N	N	<5	N	N	N	<10	N	N
P200287	N	N	N	N	N	N	N	N	N	N	N	N	N
P200297	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200307	20	N	N	N	N	N	N	N	N	N	N	N	N
P200317	150	N	N	N	N	<10	<5	5	N	N	N	<5	N
P200327	70	N	N	N	N	N	<5	N	N	N	N	N	N
P200337	<20	1	N	N	N	N	15	N	N	N	50	N	N
P200347	30	N	N	N	N	N	N	N	N	N	N	N	N
P200357	N	N	N	N	N	N	<5	N	N	N	N	N	N
P200367	20	<1	N	N	N	N	7	N	N	N	20	N	N
P200377	200	N	N	N	N	N	5	N	N	N	N	N	N
P200387	30	N	N	N	N	<10	20	<5	N	N	N	N	N
P200397	50	N	N	N	N	N	N	N	N	N	N	N	N
P200407	20	N	N	N	N	N	<5	N	N	N	N	N	N
P200417	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200427	N	N	N	N	N	N	N	N	N	N	N	N	N
P200437	70	N	N	N	N	N	15	<5	N	N	15	N	N
P200447	20	N	N	N	N	N	<5	N	N	N	N	N	N
P200457	N	N	N	N	N	N	N	N	N	N	N	N	N
P200470	50	N	N	N	N	N	<5	N	N	N	10	N	N
P200480	30	N	N	N	N	N	15	N	N	N	<10	N	N
P200485	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200510	30	N	N	N	N	N	N	N	N	N	N	N	N
P200520	70	N	N	N	N	N	N	N	N	N	N	N	N
P200530	50	N	N	N	N	N	N	N	N	N	N	N	N
P200540	300	N	N	N	N	N	10	5	N	N	<10	<5	N
P200550	100	N	N	N	N	N	5	N	N	N	<10	N	N
P200560	30	N	N	N	N	N	<5	N	N	N	<10	N	N
P200570	50	N	N	N	N	N	5	N	N	N	N	<5	N
P200580	50	N	N	N	N	N	7	N	N	N	N	<5	N
P200590	150	N	N	N	N	<10	5	7	N	N	<10	7	N
P200600	200	N	N	N	N	10	20	10	N	N	10	<5	N
P200610	200	N	N	N	N	<10	15	<5	N	N	N	5	N
P200620	20	N	N	N	N	N	5	N	N	N	N	N	N
P200630	20	N	N	N	N	N	10	N	N	N	<10	10	N
P200640	100	N	N	N	N	N	<5	N	N	N	N	N	N
P200650	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200660	150	N	N	N	N	10	15	5	N	N	<10	5	N
P200670	30	N	N	N	N	N	7	N	N	N	N	5	N

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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 #
P200062	15	1,500	N	<5	N	N	N	50	N	N	N	50	.18	51
P200067	10	150	N	N	N	N	N	20	N	N	N	20	.06	51
P200087	N	N	N	N	N	N	N	N	N	N	N	N	.01	51
P200097	<5	<10	N	N	N	N	N	10	N	N	N	30	.03	51
P200107	N	2,000	N	N	N	N	N	N	N	N	N	N	<.01	51
P200117	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P200127	N	<10	N	N	N	N	N	N	N	N	N	N	<.01	51
P200137	5	200	N	N	N	N	N	20	N	N	N	10	.05	51
P200147	5	20	N	N	N	N	N	10	N	N	N	10	.05	51
P200157	<5	30	N	N	N	N	N	20	N	N	N	50	.07	51
P200167	N	N	N	N	N	N	N	N	N	N	N	N	.01	51
P200177	<5	50	N	N	N	N	N	N	N	N	N	20	.02	51
P200187	N	<10	N	N	N	N	N	N	N	N	N	N	<.01	51
P200197	N	20	N	N	N	N	N	N	N	N	N	N	<.01	51
P200207	N	N	N	N	N	N	N	N	N	N	N	N	<.01	51
P200217	N	N	N	N	N	N	N	N	N	N	N	N	.01	51
P200227	5	70	N	N	N	N	N	15	N	N	N	15	.04	51
P200237	N	N	N	N	N	N	N	N	N	N	N	15	.02	51
P200247	N	N	N	N	N	N	N	N	N	N	N	<10	.01	52
P200257	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P200267	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	52
P200277	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	52
P200287	N	<10	N	N	N	N	N	N	N	N	N	N	<.01	52
P200297	N	300	N	N	N	N	N	N	N	N	N	N	<.01	52
P200307	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P200317	<5	15	N	N	N	N	N	10	N	N	N	15	.03	52
P200327	<5	10	N	N	N	N	N	N	N	N	200	30	.02	52
P200337	<5	N	N	N	N	N	N	N	N	N	N	N	.01	52
P200347	N	<10	N	N	N	N	N	15	N	N	N	<10	.02	52
P200357	N	N	N	N	N	N	N	N	N	N	N	N	.01	52
P200367	<5	10	N	N	N	N	N	<10	N	N	N	10	.01	52
P200377	N	150	N	N	N	N	N	15	100	N	N	50	.02	52
P200387	<5	N	N	N	N	N	N	15	N	N	N	15	.05	52
P200397	N	N	N	N	N	N	N	N	N	N	N	<10	.01	52
P200407	N	N	N	N	N	N	N	N	N	N	N	<10	.01	52
P200417	N	N	N	N	N	N	N	N	N	N	N	10	<.01	52
P200427	N	N	N	N	N	N	N	N	N	N	N	N	<.01	52
P200437	<5	30	N	N	N	N	N	15	N	N	N	15	.04	52
P200447	N	N	N	N	N	N	N	10	N	N	N	<10	.02	52
P200457	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200470	N	N	N	N	N	N	N	<10	N	N	N	10	.02	53
P200480	<5	200	N	N	N	N	N	<10	N	N	N	<10	<.01	53
P200485	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200510	N	N	N	N	N	N	N	10	N	N	N	10	.02	53
P200520	N	N	N	N	N	N	N	10	N	N	N	50	.03	53
P200530	N	N	N	N	N	N	N	N	N	N	N	<10	.02	53
P200540	5	10	N	N	N	N	N	15	N	N	N	50	.03	53
P200550	<5	10	N	N	N	N	N	10	N	N	N	15	.02	53
P200560	<5	N	N	N	N	N	N	N	N	N	N	<10	.02	53
P200570	<5	N	N	N	N	N	N	<10	N	N	N	10	.01	53
P200580	5	N	N	N	N	N	N	<10	N	N	N	15	.02	53
P200590	5	<10	N	N	N	N	N	15	N	N	N	30	.04	53
P200600	7	15	N	N	N	N	N	15	N	N	N	20	.05	53
P200610	7	<10	N	N	N	N	N	15	N	N	N	30	.02	53
P200620	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200630	5	N	N	N	N	N	N	<10	N	N	N	10	.01	53
P200640	N	N	N	N	N	N	N	N	N	N	N	50	.01	53
P200650	N	N	N	N	N	N	N	N	N	N	N	10	<.01	53
P200660	7	100	N	N	N	N	N	20	N	N	N	30	.05	53
P200670	<5	N	N	N	N	N	N	<10	N	N	N	20	.02	53

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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
P200680	37 2 56	89 51 10	N	.5	.1	<.2	N	.07	N	N	N	10
P200690	37 2 56	89 51 10	<.05	.7	.15	N	N	.05	N	N	N	15
P200700	37 2 56	89 51 10	<.05	1	.3	N	N	.07	N	N	N	15
P200710	37 2 56	89 51 10	<.05	2	.7	<.2	N	.1	N	N	N	30
P200720	37 2 56	89 51 10	N	.5	.15	N	N	.03	N	N	N	15
P200730	37 2 56	89 51 10	.07	.07	.15	N	N	.003	N	N	N	10
P200740	37 2 56	89 51 10	.1	<.05	.2	N	N	.005	N	N	N	10
P200750	37 2 56	89 51 10	.05	.1	.1	N	N	.01	N	N	N	10
P200760	37 2 56	89 51 10	<.05	.5	.1	N	N	.02	N	N	N	<10
P200770	37 2 56	89 51 10	.15	.07	.2	N	N	.015	N	N	N	<10
P200780	37 2 56	89 51 10	.07	.15	.15	N	N	.015	N	N	N	15
P200790	37 2 56	89 51 10	N	.05	<.02	N	N	.005	N	N	N	N
P200795	37 2 56	89 51 10	N	.07	.02	N	N	.003	N	N	N	N
P200810	37 2 56	89 51 10	N	.07	<.02	N	N	.005	N	N	N	N
P200820	37 2 56	89 51 10	N	.05	<.02	N	N	.003	N	N	N	<10
P200830	37 2 56	89 51 10	N	.2	.05	N	N	.02	N	N	N	N
P200840	37 2 56	89 51 10	N	.1	.03	N	N	.005	N	N	N	N
P200850	37 2 56	89 51 10	<.05	.2	.03	N	N	.01	N	N	N	15
P200860	37 2 56	89 51 10	N	.5	.05	N	N	.02	N	N	N	<10
P200870	37 2 56	89 51 10	.15	1.5	.2	N	N	.015	N	N	N	50
P200880	37 2 56	89 51 10	.07	2	.15	N	N	.02	N	N	N	20
P200890	37 2 56	89 51 10	.05	5	.1	N	N	.015	N	N	N	15
P200900	37 2 56	89 51 10	.07	7	.15	N	N	.01	N	N	N	15
P200910	37 2 56	89 51 10	<.05	1	.05	N	N	.015	N	N	N	15
P200920	37 2 56	89 51 10	<.05	.7	.07	N	N	.015	N	N	N	15
P200930	37 2 56	89 51 10	<.05	1	.05	N	N	.015	N	N	N	10
P200935	37 2 56	89 51 10	N	1.5	<.02	N	N	.01	N	N	N	15

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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
P200680	700	N	N	N	N	N	N	7	N	N	N	7	N
P200690	150	N	N	N	N	N	<5	N	N	N	N	<5	N
P200700	200	N	N	N	N	<10	5	5	N	N	<10	7	N
P200710	150	N	N	N	<10	15	30	10	N	N	10	10	N
P200720	50	N	N	N	N	N	5	<5	N	N	N	N	N
P200730	N	N	N	N	N	N	N	N	N	N	N	N	N
P200740	N	N	N	N	N	N	N	N	N	N	N	N	N
P200750	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200760	50	N	N	N	N	N	<5	N	N	N	N	N	N
P200770	20	N	N	N	N	N	N	N	N	N	N	N	N
P200780	N	N	N	N	N	N	N	N	N	N	N	N	N
P200790	<20	N	N	N	N	N	N	N	N	N	N	N	N
P200795	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P200810	N	N	N	N	N	N	N	N	N	N	N	N	N
P200820	N	N	N	N	N	N	N	N	N	N	N	N	N
P200830	100	N	N	N	N	N	<5	N	N	N	N	5	N
P200840	N	N	N	N	N	N	N	N	N	N	N	N	N
P200850	30	N	N	N	N	N	N	N	N	N	N	<5	N
P200860	70	N	N	N	N	N	N	N	N	N	N	<5	N
P200870	20	N	N	N	N	N	5	N	N	N	<10	10	N
P200880	<20	N	N	N	N	N	5	N	N	N	15	7	N
P200890	20	N	N	N	N	N	7	N	N	N	15	7	N
P200900	20	N	N	N	N	N	20	<5	N	N	50	5	N
P200910	30	N	N	N	N	N	<5	N	N	N	<10	<5	N
P200920	<20	N	N	N	N	N	<5	N	N	N	N	N	N
P200930	20	N	N	N	N	N	5	N	N	N	N	N	N
P200935	30	N	N	N	N	N	5	N	N	N	N	<5	N

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. P20, 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 #
P200680	N	<10	N	N	N	N	N	<10	N	N	N	100	.02	53
P200690	<5	<10	N	N	N	N	N	<10	N	N	N	50	.02	53
P200700	5	10	N	N	N	N	N	10	N	N	N	70	.04	53
P200710	10	100	N	N	N	N	N	20	N	N	N	50	.08	53
P200720	<5	N	N	N	N	N	N	<10	N	N	N	<10	.02	53
P200730	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200740	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200750	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200760	<5	N	N	N	N	N	N	N	N	N	N	<10	.01	53
P200770	N	N	N	N	N	N	N	N	N	N	N	N	<.01	53
P200780	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	53
P200790	N	N	N	N	N	N	N	N	N	N	N	30	<.01	54
P200795	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P200810	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P200820	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P200830	<5	<10	N	N	N	N	N	N	N	N	N	50	.01	54
P200840	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	54
P200850	N	N	N	N	N	N	N	N	N	N	N	10	<.01	54
P200860	<5	N	N	N	N	N	N	N	N	N	N	30	<.01	54
P200870	<5	<10	N	N	N	N	N	N	N	N	N	N	<.01	54
P200880	N	<10	N	N	N	N	N	<10	N	N	N	N	<.01	54
P200890	<5	10	N	N	N	N	N	N	N	N	N	<10	<.01	54
P200900	<5	15	N	N	N	N	N	N	N	N	N	10	<.01	54
P200910	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P200920	N	<10	N	N	N	N	N	N	N	N	N	N	<.01	54
P200930	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54
P200935	N	N	N	N	N	N	N	N	N	N	N	N	<.01	54

Table 22. 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
52	Cotter Formation
53	Jefferson City Formation
54	Roubidoux Formation
55	Gasconade Formation
56	Gunter Formation

Table 22--Continued

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