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Analytical results of insoluble-residue samples from the Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky: Drill hole nos. I30 - I70 (excluding I45).

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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 by the U.S. Geological Survey, the Missouri Division of Geology and Land Survey, the State Geological Survey Division of the Illinois Department of Energy and Natural Resources, and the Kentucky Geological Survey. The purpose of the study was to assess the mineral resource potential of the area by integrated geologic, geochemical, and geophysical studies.

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

The analytical results for drill holes I30 - I70 (excluding I45) are listed in tables 3-42, respectively. Well name, well number, and county allow for identification and location of drill hole files at the ISGS (see table 1, fig. 1).

SAMPLE PREPARATION

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

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

SAMPLE ANALYSIS

(Spectrographic Method)

The insoluble-residue samples were analyzed for 35 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination (LLD's) are listed in table 2. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given

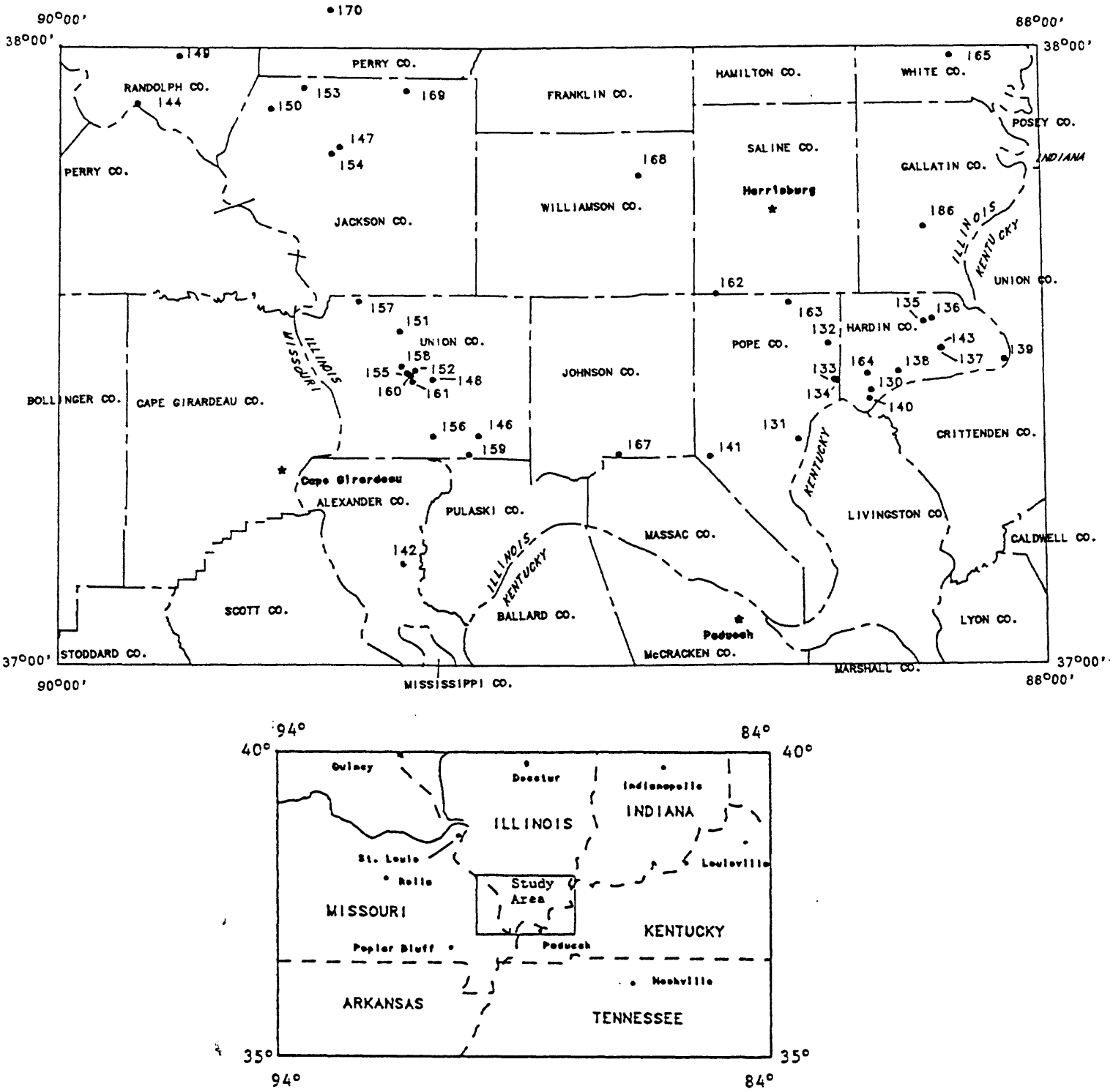

Figure 1.--Location of drill holes I30 - I70 (excluding I45), Paducah 1° x 2° quadrangle, Missouri, Illinois, and Kentucky

order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples trations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (Ca, Fe, Mg, Na, P, and Ti) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for the drill holes are listed in tables 3-42.

(Ion-selective electrode method)

The insoluble-residue samples were also 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 for this method is 100 ppm (.01%).
Analytical results using this method are listed in tables 3-42.

DATA STORAGE SYSTEM

Upon completion of all analytical work, the results were entered into a computer data base called PLUTO. This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (Van Trump and Miesch, 1977).

DESCRIPTIONS OF DATA TABLES

Tables 3-42 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 letter "I" indicates Illinois; the next digits indicate the drill hole number; the letter "R", if present, indicates an insoluble-residue sample. The final digits identify the depth from the bottom of the sample interval to the drill hole collar.

The stratigraphic unit of the sample is identified by a coded number in the last column of tables 3-42. The codes and corresponding formation names are listed in table 43.

Columns in which the element headings show the letter "s" below the element symbol indicates emission spectrographic analyses; "ise" indicates fluorine analyses by an ion-selective electrode method. A letter "N" in the tables indicates that a given element was looked for but not detected at the LLD shown in table 2. A "less than" symbol (<) entered in the tables in front

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

ACKNOWLEDGEMENTS

The authors wish to thank Greg Bennett and F.W. Tippitt for their assistance in the preparation of the insoluble-residue samples.

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Table 1.--Drill hole information

DRILL HOLE NO.	ISGS WELL NAME	ISGS WELL LOG NO.	COUNTY	SECTION, TOWNSHIP, and RANGE
I30	Hillside Fluorospar Mine	C801	Hardin	29-12S-8E
I31	Mittler #1	SS986	Pope	24-13S-6E
I32	Grand Pierre Indian Reservation	C2373	Pope	33-11S-7E
I33	Lamar #1	C2524	Pope	22-12S-7E
I34	Albert Rains #2	C2486	Pope	22-12S-7E
I35	Joyner #8	C3241	Hardin	17-11S-9E
I36	Spivey #1	C2815	Hardin	16-11S-9E
I37	Test Hole #150	C804	Hardin	34-11S-9E
I38	F. Rose #3	C261	Hardin	14-12S-8E
I39	Lucas #1 Herrin	SS25119	Hardin	11-12S-10E
I40	AC #2	C352	Hardin	32-12S-8E
I41	Okerson #1	SS21246	Pope	32-13S-5E
I42	Hodges #1	SS4590	Alexander	35-15S-2W
I43	Victory Test Hole #131	C789	Hardin	34-11S-9E
I44	So. Illinois Penitentiary	SS133	Randolph	23-7S-7W
I46	Hoffman #1	SS1002	Union	19-13S-1E
I47	Alley #1	SS254	Jackson	10-8S-3W
I48	Anna City #A-1	SS1730	Union	20-12S-1W
I49	Gremmels #1	SS294	Randolph	22-6S-6W
I50	Lowder #1	SS141	Jackson	20-7S-4W
I51	Rendleman #1	SS984	Union	23-11S-2W
I52	Spurlock #1	SS1020	Union	13-12S-2W
I53	Carter #1	SS144	Jackson	12-7S-4W
I54	Levan #1	SS255	Jackson	16-8S-3W

I55	State Pond Land	SS1037	Union	14-12S-2W
I56	Alden #1	SS996	Union	20-13S-1W
I57	C. Carter #1	SS973	Union	1-11S-3W
I58	Greer #1	SS1017	Union	11-12S-2W
I59	Keller #1	SS1005	Union	36-13S-1W
I60	First National Bank	SS1018	Union	13-12S-2W
I61	C. Greer #1	SS1016	Union	24-12S-2W
I62	Hancock #1	SS25	Saline	33-10S-5E
I63	M. Steich Comm. #1	SS60504	Pope	2-11S-6E
I64	U.S. Bureau of Mines #1	C13224	Hardin	17-12S-8E
I65	Trainor #1	C53834	White	23-6S-9E
I66	J.M. Walters #1	C6651 and C54893	Gallatin	29-9S-9E
I67	Texas Pacific Oil Co. #1	SS59859	Johnson	34-13S-3E
I68	Brehm Harris #1	SS57937	Williamson	25-8S-3E
I69	Harsha #1	SS50206	Jackson	11-7S-2W
I70	Joseph Pointer Unit Beeson #1	SS23234	Perry	28-5S-3W

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

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

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

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I30, 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
I30R0321	37 36 41	88 20 30	.1	3	.7	.2	<.2	1	N	N	N	200
I30R0331	37 36 41	88 20 30	.2	2	.7	<.2	<.2	.7	N	N	N	150
I30R0348	37 36 41	88 20 30	.15	2	.7	.2	<.2	1	N	N	N	200
I30R0363	37 36 41	88 20 30	<.05	5	.7	<.2	<.2	1	N	N	N	300
I30R0368	37 36 41	88 20 30	.2	1.5	.15	<.2	<.2	.5	N	N	N	100
I30R0368	37 36 41	88 20 30	.2	1.5	.15	<.2	<.2	.5	N	N	N	100
I30R0606	37 36 41	88 20 30	.1	5	.5	<.2	<.2	.7	N	N	N	200
I30R0616	37 36 41	88 20 30	.1	.7	.5	<.2	<.2	.5	N	N	N	150
I30R0624	37 36 41	88 20 30	.3	1	.5	<.2	<.2	.3	N	N	N	150
I30R0632	37 36 41	88 20 30	.7	1.5	.5	<.2	<.2	1	N	N	N	100
I30R0639	37 36 41	88 20 30	.1	1.5	.5	<.2	<.2	.5	N	N	N	150
I30R0653	37 36 41	88 20 30	.1	2	.7	<.2	<.2	1	N	N	N	200
I30R0666	37 36 41	88 20 30	.5	1.5	.7	<.2	<.2	.5	N	N	N	150
I30R0677	37 36 41	88 20 30	.07	1.5	1	<.2	<.2	1	N	N	N	200
I30R0706	37 36 41	88 20 30	2	.2	.1	<.2	<.2	.1	N	N	N	20
I30R0751	37 36 41	88 20 30	2	.15	.1	<.2	<.2	.1	N	N	N	15
I30R0763	37 36 41	88 20 30	2	.5	.15	<.2	<.2	.03	N	N	N	20
I30R0778	37 36 41	88 20 30	1	.3	.15	<.2	<.2	.3	N	N	N	20
I30R0789	37 36 41	88 20 30	1.5	.2	.1	<.2	<.2	.2	N	N	N	20
I30R0791	37 36 41	88 20 30	.2	.15	.07	<.2	<.2	.05	N	N	N	15

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I30R0321	200	1	N	N	20	100	30	30	N	50	20	<5	N
I30R0331	150	1.5	N	N	<10	100	20	20	N	N	30	<5	N
I30R0348	200	1	N	N	15	100	20	30	N	50	20	<5	N
I30R0363	150	1.5	N	N	30	100	30	50	N	50	20	<5	<20
I30R0368	100	1	N	N	<10	100	20	5	N	N	15	<5	N
I30R0368	100	1	N	N	<10	100	20	5	N	N	15	<5	N
I30R0606	100	1.5	N	N	10	50	20	20	N	<50	30	<5	<20
I30R0616	100	2	N	N	10	70	20	7	N	N	15	<5	N
I30R0624	100	2	N	N	<10	15	200	5	N	N	10	5	N
I30R0632	150	3	N	N	15	50	15	7	N	N	15	<5	<20
I30R0639	100	2	N	N	20	70	30	30	N	<50	30	5	<20
I30R0653	150	3	N	N	10	100	7	50	N	70	30	<5	<20
I30R0666	200	5	N	N	15	100	150	20	N	50	70	7	<20
I30R0677	200	5	N	N	15	100	15	30	N	50	30	<5	<20
I30R0706	N	<1	N	N	N	15	5	<5	N	50	10	<5	<20
I30R0751	N	<1	N	N	N	<10	5	<5	N	<50	15	5	<20
I30R0763	20	<1	N	N	N	<10	7	<5	N	N	10	5	50
I30R0778	70	<1	N	N	N	10	5	5	N	N	50	<5	<20
I30R0789	50	<1	N	N	N	10	<5	5	N	N	30	<5	<20
I30R0791	20	N	N	N	N	<10	<5	5	N	N	10	7	<20

TABLE 3--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I30, 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 #
I30R0321	50	<10	N	10	N	<100	N	100	<20	15	<200	100	.06	4
I30R0331	30	<10	N	7	N	<100	N	100	<20	10	<200	150	.08	4
I30R0348	30	<10	N	10	N	<100	N	150	<20	15	<200	500	.07	4
I30R0363	50	<10	N	15	N	<100	N	200	<20	20	<200	100	.04	4
I30R0368	15	<10	N	5	N	<100	N	150	<20	<10	<200	300	.02	4
I30R0368	15	<10	N	5	N	<100	N	150	<20	<10	<200	300	.02	4
I30R0606	50	<10	N	10	N	<100	N	100	<20	15	<200	150	.08	5
I30R0616	20	<10	N	5	N	<100	N	100	<20	N	<200	70	.08	5
I30R0624	15	<10	N	<5	N	<100	N	100	<20	N	<200	100	.06	5
I30R0632	30	<10	N	7	N	<100	N	100	<20	10	<200	300	.09	5
I30R0639	50	<10	N	10	N	<100	N	100	<20	10	<200	150	.17	5
I30R0653	50	<10	N	15	N	<100	N	100	<20	20	<200	200	.12	5
I30R0666	50	20	N	10	N	500	N	100	<20	10	<200	200	.2	5
I30R0677	50	<10	N	15	N	<100	N	100	<20	15	N	200	.26	6
I30R0706	5	<10	N	N	N	<100	N	30	<20	N	N	150	.05	6
I30R0751	7	<10	N	N	N	<100	N	15	<20	N	N	200	.02	6
I30R0763	<5	<10	N	N	N	<100	N	10	<20	N	N	300	.03	6
I30R0778	5	<10	N	N	N	<100	N	30	<20	N	N	150	.02	6
I30R0789	5	<10	N	N	N	<100	N	20	<20	N	N	150	.02	6
I30R0791	5	<10	N	N	N	<100	N	30	<20	N	N	100	.01	6

TABLE 4--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I31, 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
I31R0207	37 22 22	88 30 6	<.05	.3	.15	.3	<.2	.5	N	N	N	70
I31R0217	37 22 22	88 30 6	.07	2	.5	.2	<.2	.7	N	N	N	70
I31R0227	37 22 22	88 30 6	.05	3	.5	.2	<.2	.7	N	N	N	100
I31R0247	37 22 22	88 30 6	.07	3	.7	.3	<.2	1	N	N	N	200
I31R0267	37 22 22	88 30 6	.05	7	1	.3	<.2	.7	N	N	N	200
I31R0275	37 22 22	88 30 6	.07	5	.7	<.2	<.2	.5	N	N	N	200
I31R0307	37 22 22	88 30 6	.07	7	1	.3	<.2	.7	N	N	N	200
I31R0338	37 22 22	88 30 6	.1	7	1	.2	<.2	.7	N	N	N	200
I31R0353	37 22 22	88 30 6	.05	3	.7	.5	<.2	.7	N	N	N	100
I31R0580	37 22 22	88 30 6	.1	3	.5	.3	<.2	.7	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I31R0207	300	1	N	N	N	50	5	7	N	N	<10	<5	20
I31R0217	500	1	N	N	<10	50	7	7	N	N	30	<5	N
I31R0227	300	1	N	N	10	70	15	15	N	N	30	<5	20
I31R0247	200	2	N	N	15	300	70	30	N	50	50	<5	70
I31R0267	200	2	N	N	15	100	50	20	N	N	100	<5	20
I31R0275	100	1.5	N	N	15	100	5	20	N	<50	50	<5	<20
I31R0307	300	1.5	N	N	20	100	100	50	N	<50	100	5	<20
I31R0338	500	1.5	N	N	15	100	30	30	N	N	70	<5	N
I31R0353	300	1	N	N	10	100	5	15	N	N	70	<5	N
I31R0580	700	1	N	N	10	70	30	10	N	N	30	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I31R0207	10	<10	N	5	N	150	N	50	<20	<10	N	500	.02	5
I31R0217	20	<10	N	7	N	100	N	70	<20	10	N	500	.03	5
I31R0227	30	<10	N	7	N	100	N	70	<20	15	N	300	.06	5
I31R0247	50	<10	N	15	N	300	N	150	<20	20	N	>1,000	.06	5
I31R0267	50	<10	N	10	N	100	N	150	<20	15	N	500	.13	5
I31R0275	50	<10	N	10	N	100	N	100	<20	15	N	150	.14	5
I31R0307	70	<10	N	10	N	200	N	150	<20	15	300	150	.2	5
I31R0338	50	<10	N	10	N	100	N	150	<20	10	<200	200	.14	5
I31R0353	30	<10	N	7	N	<100	N	70	<20	10	N	1,000	.1	5
I31R0580	50	10	N	7	N	300	N	100	<20	10	300	300	.2	6

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I32, 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
I32R0322	37 31 9	88 26 13	.15	1	.7	.5	<.2	1	N	N	N	300
I32R0334	37 31 9	88 26 13	.1	5	.7	<.2	<.2	.7	N	N	N	200
I32R0343	37 31 9	88 26 13	.15	5	1	<.2	<.2	.5	N	N	N	200
I32R0352	37 31 9	88 26 13	.1	7	1.5	.2	<.2	1	N	N	N	300
I32R0366	37 31 9	88 26 13	2	1	.5	<.2	<.2	.7	N	N	N	200
I32R0374	37 31 9	88 26 13	2	1.5	2	.2	<.2	1	N	N	N	300
I32R0382	37 31 9	88 26 13	.2	3	1.5	.3	<.2	1	N	N	N	300
I32R0391	37 31 9	88 26 13	2	1.5	1	<.2	<.2	1	N	N	N	200
I32R0400	37 31 9	88 26 13	.3	2	1	<.2	<.2	1	N	N	N	300
I32R0408	37 31 9	88 26 13	.3	1	.7	<.2	<.2	.5	N	N	N	200
I32R0418	37 31 9	88 26 13	.3	.5	.5	<.2	<.2	.3	N	N	N	100
I32R0425	37 31 9	88 26 13	.3	.05	.5	<.2	<.2	.2	N	N	N	70
I32R0436	37 31 9	88 26 13	20	.5	1	<.2	<.2	.2	N	N	N	150
I32R0444	37 31 9	88 26 13	.3	1.5	1	<.2	<.2	.5	N	N	N	150
I32R0454	37 31 9	88 26 13	.2	.1	.07	<.2	<.2	.2	N	N	N	30
I32R0462	37 31 9	88 26 13	10	.2	.05	<.2	<.2	.05	N	N	N	10
I32R0471	37 31 9	88 26 13	7	.07	.07	<.2	<.2	.05	N	N	N	10
I32R0484	37 31 9	88 26 13	.2	.2	.5	<.2	<.2	.7	N	N	N	200
I32R0493	37 31 9	88 26 13	.15	2	1	<.2	<.2	.7	N	N	N	300
I32R0502	37 31 9	88 26 13	.3	1.5	1	.2	.2	1	N	N	N	300
I32R0512	37 31 9	88 26 13	1.5	2	.7	<.2	<.2	.7	<.5	<200	N	500
I32R0523	37 31 9	88 26 13	1	.2	.3	<.2	<.2	.2	N	N	N	70
I32R0529	37 31 9	88 26 13	1	.2	.5	<.2	<.2	.5	N	N	N	50
I32R0536	37 31 9	88 26 13	15	.1	.1	<.2	<.2	.01	N	N	N	10
I32R0546	37 31 9	88 26 13	5	.2	.5	<.2	<.2	.2	N	N	N	70
I32R0559	37 31 9	88 26 13	2	.2	.3	.5	<.2	.3	N	N	N	50
I32R0569	37 31 9	88 26 13	.2	.15	.5	<.2	<.2	.2	N	N	N	100
I32R0579	37 31 9	88 26 13	1	.2	.7	<.2	<.2	.3	1.5	N	N	150
I32R0587	37 31 9	88 26 13	3	.2	.3	<.2	<.2	.1	<.5	N	N	100
I32R0597	37 31 9	88 26 13	.5	.2	.5	<.2	<.2	.2	N	N	N	100
I32R0611	37 31 9	88 26 13	5	.7	.2	<.2	<.2	.05	N	N	N	20
I32R0621	37 31 9	88 26 13	3	.15	.15	<.2	<.2	.07	N	N	N	20
I32R0631	37 31 9	88 26 13	2	2	.3	<.2	<.2	.2	N	N	N	30

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I32, 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
I32R0322	200	5	N	N	10	100	20	15	N	50	15	<5	<20
I32R0334	100	10	N	N	<10	100	15	20	N	<50	30	<5	N
I32R0343	200	3	N	N	15	100	150	20	N	N	20	<5	<20
I32R0352	200	7	N	N	10	100	100	50	N	50	30	<5	<20
I32R0366	150	1.5	N	N	<10	70	50	10	N	<50	20	<5	N
I32R0374	150	7	N	N	10	100	5	15	N	50	100	<5	<20
I32R0382	150	5	N	N	30	100	100	50	N	70	30	<5	<20
I32R0391	100	7	N	N	15	100	200	30	N	50	20	<5	N
I32R0400	150	5	N	N	20	100	50	30	N	<50	50	7	N
I32R0408	>5,000	5	N	N	10	50	30	20	N	50	20	7	<20
I32R0418	300	5	N	N	10	20	10	5	N	50	15	<5	N
I32R0425	100	1	N	N	N	20	5	5	N	<50	<10	<5	<20
I32R0436	100	5	N	N	<10	20	100	7	N	<50	30	<5	<20
I32R0444	100	5	N	N	<10	70	100	10	N	50	20	<5	N
I32R0454	20	1	N	N	N	20	30	<5	N	50	<10	<5	N
I32R0462	<20	1	N	N	N	10	3,000	<5	N	N	<10	<5	N
I32R0471	<20	<1	N	N	N	10	1,000	<5	N	N	10	<5	N
I32R0484	200	1	N	N	N	100	100	5	N	<50	10	5	<20
I32R0493	100	5	N	N	10	100	50	20	N	<50	15	<5	<20
I32R0502	700	3	N	N	15	100	100	20	N	700	15	15	200
I32R0512	500	7	N	N	30	200	150	20	N	70	15	70	50
I32R0523	N	1.5	N	N	N	20	50	5	N	N	<10	5	20
I32R0529	150	1	N	N	<10	50	7	5	N	<50	<10	<5	50
I32R0536	N	1	N	N	N	10	700	<5	N	N	10	<5	N
I32R0546	150	2	N	N	N	20	1,000	5	N	<50	15	5	20
I32R0559	150	2	N	N	N	50	150	10	N	<50	15	5	20
I32R0569	70	5	N	N	N	20	200	7	N	50	<10	5	20
I32R0579	100	2	N	N	N	20	1,000	7	N	50	<10	5	20
I32R0587	<20	5	N	N	N	10	50	5	N	N	<10	15	<20
I32R0597	<20	5	N	N	N	10	30	5	N	<50	<10	10	<20
I32R0611	500	1	N	N	N	10	20	5	N	N	<10	10	<20
I32R0621	N	1	N	N	N	10	20	<5	N	N	<10	10	30
I32R0631	100	<1	N	N	N	15	50	5	N	N	10	10	N

TABLE 5--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I32, 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 #
I32R0322	50	<10	N	15	N	100	N	200	<20	15	<200	1,000	.09	5
I32R0334	70	<10	N	10	N	100	N	200	<20	<10	<200	150	.22	5
I32R0343	70	<10	N	7	N	100	N	200	<20	<10	<200	200	.18	5
I32R0352	70	<10	N	15	N	100	N	200	<20	<10	<200	200	.24	5
I32R0366	20	<10	N	7	N	100	N	150	<20	<10	<200	700	.12	5
I32R0374	50	10	N	15	N	100	N	150	<20	10	<200	200	.17	5
I32R0382	100	10	N	20	N	100	N	200	<20	15	<200	200	.19	5
I32R0391	50	<10	N	10	N	100	N	150	<20	10	<200	100	3.06	5
I32R0400	50	10	N	10	N	100	N	200	<20	<10	<200	150	.2	5
I32R0408	50	30	N	7	N	300	N	200	<20	<10	<200	150	.18	5
I32R0418	15	10	N	5	N	<100	N	70	<20	<10	<200	150	.24	5
I32R0425	<5	<10	N	<5	N	<100	N	20	20	<10	<200	>1,000	.15	5
I32R0436	20	15	N	5	N	<100	N	70	N	15	<200	100	19.4	5
I32R0444	30	<10	N	10	N	<100	N	100	<20	15	<200	500	.19	5
I32R0454	<5	<10	N	N	N	<100	N	20	<20	N	<200	300	.05	5
I32R0462	<5	<10	N	N	N	<100	N	20	<20	N	<200	10	6.28	5
I32R0471	5	3,000	N	N	N	<100	N	20	<20	N	500	10	3.72	6
I32R0484	10	50	N	5	N	N	N	100	<20	<10	200	500	.1	6
I32R0493	50	10	N	7	N	N	N	150	<20	10	N	300	.24	6
I32R0502	50	<10	N	10	N	N	N	150	<20	15	N	1,000	.46	6
I32R0512	200	100	N	15	N	N	N	1,000	<20	10	300	500	.2	6
I32R0523	7	N	N	<5	N	N	N	15	<20	<10	N	500	.05	6
I32R0529	7	N	N	5	N	N	N	70	<20	<10	N	1,000	.06	6
I32R0536	<5	1,500	N	N	N	N	N	15	<20	N	N	20	6.38	6
I32R0546	7	30	N	N	N	N	N	30	<20	N	N	300	1.12	6
I32R0559	7	<10	N	N	N	N	N	20	<20	N	200	1,000	.29	6
I32R0569	15	<10	N	N	N	N	N	30	<20	N	N	200	.18	6
I32R0579	15	<10	N	N	N	N	N	30	<20	N	N	100	.25	6
I32R0587	10	<10	N	N	N	N	N	20	<20	N	N	100	1.68	6
I32R0597	10	<10	N	N	N	N	N	30	<20	N	N	200	.09	6
I32R0611	5	<10	N	N	N	N	N	10	<20	N	N	150	.02	6
I32R0621	5	<10	N	N	N	N	N	15	<20	N	N	300	.02	6
I32R0631	50	<10	N	N	N	N	N	50	20	N	N	100	.19	6

TABLE 6--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I33, 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
I33R0198	37 27 35	88 25 17	<.05	.1	.1	<.2	<.2	.1	N	N	N	30
I33R0206	37 27 35	88 25 17	.07	7	.7	<.2	<.2	.7	N	N	N	150
I33R0216	37 27 35	88 25 17	.1	7	1	<.2	<.2	.7	N	N	N	200
I33R0228	37 27 35	88 25 17	.15	2	1	<.2	<.2	.7	N	N	N	200
I33R0237	37 27 35	88 25 17	.1	3	1	<.2	<.2	.7	N	N	N	150
I33R0250	37 27 35	88 25 17	.1	.5	.5	<.2	<.2	.5	N	N	N	70
I33R0266	37 27 35	88 25 17	.1	7	1	<.2	<.2	1	N	N	N	150
I33R0275	37 27 35	88 25 17	1.5	.5	.5	<.2	<.2	.3	.5	N	N	100
I33R0283	37 27 35	88 25 17	.2	.5	.7	<.2	<.2	.5	N	N	N	100
I33R0287	37 27 35	88 25 17	1.5	.05	.07	<.2	<.2	.1	N	N	N	30
I33R0311	37 27 35	88 25 17	1.5	.5	.2	<.2	<.2	.2	<.5	N	N	50
I33R0322	37 27 35	88 25 17	.2	5	1	<.2	<.2	.5	N	N	N	500
I33R0340	37 27 35	88 25 17	7	.1	.1	<.2	<.2	.03	N	N	N	20
I33R0358	37 27 35	88 25 17	10	.2	.5	<.2	<.2	.05	3	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
I33R0198	50	1	N	N	N	10	<5	5	N	N	<10	<5	N
I33R0206	500	5	N	N	20	150	30	70	N	70	70	<5	N
I33R0216	500	1.5	N	N	10	150	50	50	N	50	50	<5	N
I33R0228	5,000	3	N	N	20	100	70	30	N	N	30	<5	N
I33R0237	300	2	N	N	10	100	15	30	N	N	30	<5	N
I33R0250	1,000	1	N	N	<10	150	15	7	N	<50	<10	<5	N
I33R0266	500	5	N	N	20	100	200	30	N	50	30	<5	<20
I33R0275	100	1	N	N	<10	50	70	5	N	N	10	<5	N
I33R0283	200	5	N	N	<10	50	<5	7	N	<50	<10	<5	N
I33R0287	30	1.5	N	N	N	20	5	<5	N	<50	15	<5	N
I33R0311	150	1.5	N	N	N	70	15	5	N	<50	20	5	N
I33R0322	500	7	N	N	15	100	50	20	N	<50	30	<5	30
I33R0340	2,000	1	N	N	N	<10	50	<5	N	N	15	<5	N
I33R0358	1,500	1.5	N	N	<10	20	20	<5	N	N	30	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I33R0198	5	<10	N	N	N	<100	N	15	<20	N	N	100	.02	5
I33R0206	70	<10	N	15	N	150	N	200	<20	20	<200	150	.12	5
I33R0216	100	<10	N	10	N	100	N	200	<20	10	<200	150	.1	5
I33R0228	50	<10	N	7	N	150	N	150	<20	N	<200	150	.12	5
I33R0237	50	<10	N	10	N	100	N	150	<20	<10	<200	150	.14	5
I33R0250	10	<10	N	5	N	100	N	50	20	<10	<200	>1,000	.05	5
I33R0266	150	<10	N	15	N	100	N	150	<20	<10	<200	200	.18	5
I33R0275	5	3,000	N	<5	N	100	N	100	<20	N	200	200	.06	6
I33R0283	10	10	N	7	N	100	N	50	<20	<10	<200	200	.08	6
I33R0287	<5	<10	N	N	N	100	N	<10	20	N	<200	200	.2	6
I33R0311	10	2,000	N	<5	N	100	N	50	<20	N	1,000	200	.05	6
I33R0322	100	<10	N	10	N	100	N	200	<20	<10	<200	200	.29	6
I33R0340	<5	3,000	N	N	N	100	N	<10	<20	N	7,000	100	3.35	6
I33R0358	5	15,000	N	N	N	150	N	10	<20	<10	1,500	300	2.39	6

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I34, 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
I34R0021	37 26 44	88 25 15	.05	.05	.15	<.2	<.2	.5	N	N	N	50
I34R0032	37 26 44	88 25 15	<.05	.07	.1	<.2	<.2	.2	N	N	N	50
I34R0046	37 26 44	88 25 15	<.05	.2	.07	<.2	<.2	.1	N	N	N	20
I34R0059	37 26 44	88 25 15	.2	.2	.2	<.2	<.2	.3	N	N	N	30
I34R0071	37 26 44	88 25 15	.1	.5	.2	.2	<.2	1	N	N	N	150
I34R0081	37 26 44	88 25 15	1	1	.3	.2	<.2	.3	N	N	N	50
I34R0092	37 26 44	88 25 15	.3	.3	.2	<.2	<.2	.5	N	N	N	70
I34R0102	37 26 44	88 25 15	.3	.3	.2	<.2	<.2	.2	N	N	N	70
I34R0117	37 26 44	88 25 15	.5	.1	.3	<.2	<.2	.15	N	N	N	50
I34R0131	37 26 44	88 25 15	2	.15	.5	<.2	<.2	.7	N	N	N	100
I34R0141	37 26 44	88 25 15	.5	.1	.3	<.2	<.2	.07	N	N	N	20
I34R0152	37 26 44	88 25 15	2	.07	.3	<.2	<.2	.15	N	N	N	20
I34R0163	37 26 44	88 25 15	.7	.1	.5	<.2	<.2	.2	N	N	N	50
I34R0175	37 26 44	88 25 15	1	.2	.5	<.2	<.2	.7	N	N	N	150
I34R0184	37 26 44	88 25 15	.05	7	1	<.2	<.2	1	N	N	N	200
I34R0193	37 26 44	88 25 15	.1	5	.7	<.2	<.2	.5	N	N	N	200
I34R0202	37 26 44	88 25 15	3	3	.7	<.2	<.2	.5	N	N	N	300
I34R0213	37 26 44	88 25 15	.1	5	.5	<.2	<.2	.7	N	N	N	200
I34R0225	37 26 44	88 25 15	2	5	2	<.2	<.2	.5	N	N	N	200
I34R0233	37 26 44	88 25 15	.5	3	1	<.2	<.2	.7	N	N	N	200
I34R0242	37 26 44	88 25 15	.3	3	.5	.2	<.2	.5	N	N	N	150
I34R0251	37 26 44	88 25 15	.2	.3	.2	<.2	<.2	.5	N	N	N	70
I34R0262	37 26 44	88 25 15	.2	.5	.5	<.2	<.2	.7	N	N	N	150
I34R0276	37 26 44	88 25 15	.5	.5	.5	<.2	<.2	.5	N	N	N	70
I34R0290	37 26 44	88 25 15	1	.15	.15	<.2	<.2	.2	N	N	N	20
I34R0306	37 26 44	88 25 15	.15	2	.3	<.2	<.2	.5	N	N	N	70
I34R0321	37 26 44	88 25 15	7	3	5	<.2	<.2	.5	N	N	N	200
I34R0335	37 26 44	88 25 15	.3	.5	1.5	<.2	<.2	.7	N	N	N	200
I34R0360	37 26 44	88 25 15	2	1.5	.15	<.2	<.2	.2	N	N	N	100
I34R0376	37 26 44	88 25 15	.2	2	.7	<.2	<.2	.7	.5	N	N	300
I34R0387	37 26 44	88 25 15	.15	2	1.5	<.2	<.2	.7	N	N	N	300
I34R0411	37 26 44	88 25 15	3	1	2	.3	<.2	.5	N	N	N	200
I34R0422	37 26 44	88 25 15	2	.5	.2	.5	<.2	.7	.5	N	N	50

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I34, 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
I34R0021	30	1	N	N	<10	70	<5	<5	N	N	<10	<5	20
I34R0032	50	1	N	N	<10	100	<5	<5	N	N	<10	<5	N
I34R0046	50	1	N	N	<10	50	20	<5	N	N	10	<5	N
I34R0059	30	1	N	N	<10	50	<5	<5	N	N	100	<5	30
I34R0071	500	1.5	N	N	10	150	15	10	N	N	50	<5	20
I34R0081	150	<1	N	N	<10	100	20	5	N	N	150	<5	N
I34R0092	300	<1	N	N	<10	100	5	<5	N	N	100	<5	N
I34R0102	700	<1	N	N	<10	100	50	<5	N	N	30	<5	N
I34R0117	100	1	N	N	<10	20	<5	<5	N	N	50	<5	N
I34R0131	300	1	N	N	<10	100	<5	<5	N	N	50	<5	30
I34R0141	20	<1	N	N	<10	20	<5	<5	N	<50	70	<5	<20
I34R0152	5,000	1	N	N	<10	30	<5	<5	N	N	50	<5	<20
I34R0163	2,000	1.5	N	N	<10	50	<5	<5	N	<50	70	<5	30
I34R0175	50	2	N	N	<10	200	15	5	N	N	100	5	50
I34R0184	500	7	N	N	20	150	15	30	N	70	30	<5	N
I34R0193	500	3	N	N	15	100	15	15	N	N	20	5	N
I34R0202	>5,000	7	N	N	10	150	15	30	N	N	150	5	N
I34R0213	300	3	N	N	15	150	15	30	N	50	30	<5	<20
I34R0225	200	3	N	N	20	150	30	50	N	50	150	<5	N
I34R0233	150	2	N	N	15	100	100	50	N	N	70	30	<20
I34R0242	150	1	N	N	<10	70	70	7	N	N	50	50	N
I34R0251	100	1.5	N	N	<10	70	30	5	N	N	15	10	N
I34R0262	150	2	N	N	<10	100	70	7	N	N	20	5	N
I34R0276	150	1	N	N	<10	150	<5	5	N	N	20	<5	N
I34R0290	500	N	N	N	<10	10	<5	<5	N	N	15	5	N
I34R0306	2,000	<1	N	N	10	70	1,000	5	N	N	15	5	N
I34R0321	150	1	N	N	15	70	20	15	N	N	100	<5	N
I34R0335	200	2	N	N	15	100	20	50	N	<50	50	<5	<20
I34R0360	>5,000	2	N	50	N	100	50	<5	N	N	<10	20	20
I34R0376	>5,000	7	N	30	15	150	70	50	N	N	50	30	50
I34R0387	1,500	10	N	N	30	150	50	30	N	50	50	7	<20
I34R0411	1,000	1.5	N	N	10	70	30	50	N	N	10	5	N
I34R0422	2,000	1	N	N	<10	20	70	7	N	<50	10	15	50

TABLE 7--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I34, 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 #
I34R0021	<5	<10	N	<5	N	<100	N	20	<20	N	N	>1,000	.03	5
I34R0032	5	<10	N	<5	N	<100	N	20	<20	<10	N	300	.03	5
I34R0046	5	<10	N	<5	N	<100	N	20	<20	N	N	500	.02	5
I34R0059	5	<10	N	N	N	<100	N	15	<20	N	N	1,000	.02	5
I34R0071	20	<10	N	7	N	150	N	70	<20	30	N	500	.03	5
I34R0081	15	<10	N	5	N	150	N	50	<20	20	N	300	.02	5
I34R0092	10	<10	N	5	N	100	N	30	<20	10	N	700	.01	5
I34R0102	15	<10	N	5	N	150	N	20	<20	10	N	700	.02	5
I34R0117	30	<10	N	N	N	100	N	15	<20	N	N	200	.03	5
I34R0131	5	<10	N	7	N	100	N	20	<20	15	N	1,000	.05	5
I34R0141	<5	<10	N	N	N	100	N	15	<20	N	N	200	.02	5
I34R0152	5	<10	N	<5	N	150	N	15	<20	<10	N	300	.02	5
I34R0163	5	<10	N	<5	N	150	N	20	<20	10	500	300	.11	5
I34R0175	7	<10	N	10	N	100	N	50	<20	10	N	500	.06	5
I34R0184	50	10	N	15	N	150	N	100	<20	15	N	100	.12	5
I34R0193	50	<10	N	7	N	700	N	100	<20	N	N	70	.14	5
I34R0202	30	<10	N	10	N	>5,000	N	100	<20	10	N	100	.17	6
I34R0213	70	<10	N	15	N	1,000	N	100	<20	15	N	100	.18	6
I34R0225	70	15	N	15	N	1,000	N	100	<20	15	N	100	.21	6
I34R0233	70	10	N	10	N	100	N	150	<20	10	N	150	.25	6
I34R0242	30	<10	N	5	N	<100	N	100	<20	N	1,500	500	.11	6
I34R0251	15	<10	N	5	N	<100	N	50	<20	N	N	>1,000	.05	6
I34R0262	50	<10	N	7	N	<100	N	150	<20	10	N	1,000	.09	6
I34R0276	10	<10	N	5	N	<100	N	50	<20	20	N	500	.05	6
I34R0290	<5	<10	N	<5	N	<100	N	50	<20	N	N	300	.02	6
I34R0306	30	<10	N	5	N	500	N	100	<20	N	N	300	.04	6
I34R0321	70	<10	N	10	N	200	N	150	<20	N	N	50	.19	6
I34R0335	70	<10	N	15	N	100	N	200	<20	10	N	150	.33	6
I34R0360	20	50	N	5	N	1,000	N	50	<20	N	3,000	700	.63	6
I34R0376	100	30	N	10	N	150	N	150	<20	10	1,000	300	.35	6
I34R0387	100	30	N	15	N	200	N	150	<20	10	N	200	.31	6
I34R0411	50	<10	N	7	N	500	N	100	<20	10	N	100	2.03	6
I34R0422	30	20	N	5	N	300	N	20	<20	10	<200	300	1.43	6

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I35, 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
I35R0153	37 33 42	88 13 53	.05	5	1	<.2	<.2	1	N	N	N	300
I35R0163	37 33 42	88 13 53	.1	5	1	<.2	<.2	1	N	N	N	300
I35R0173	37 33 42	88 13 53	.1	3	.7	<.2	<.2	1	N	N	N	200
I35R0182	37 33 42	88 13 53	2	5	1.5	<.2	<.2	1	N	N	N	200
I35R0199	37 33 42	88 13 53	.1	3	1	<.2	<.2	1	N	N	N	200
I35R0209	37 33 42	88 13 53	.15	2	.7	<.2	<.2	.7	N	N	N	150
I35R0219	37 33 42	88 13 53	.1	5	1	<.2	<.2	1	N	N	N	150
I35R0232	37 33 42	88 13 53	.15	2	.7	<.2	<.2	.7	N	N	N	100
I35R0246	37 33 42	88 13 53	.2	.5	.5	<.2	<.2	.7	N	N	N	100
I35R0262	37 33 42	88 13 53	1.5	3	1	<.2	<.2	1	N	N	N	300
I35R0275	37 33 42	88 13 53	.05	2	.7	.2	<.2	1	N	N	N	150
I35R0291	37 33 42	88 13 53	.5	3	1	N	<.2	.7	N	N	N	200
I35R0301	37 33 42	88 13 53	.2	.5	.7	N	<.2	.7	<.5	N	N	200
I35R0315	37 33 42	88 13 53	2	.2	.2	N	<.2	.7	N	N	N	100
I35R0331	37 33 42	88 13 53	.2	.15	.2	N	<.2	.5	N	N	N	70
I35R0337	37 33 42	88 13 53	.15	.5	.5	N	<.2	.5	N	N	N	200
I35R0349	37 33 42	88 13 53	5	.5	.2	N	<.2	.3	1.5	N	N	50
I35R0361	37 33 42	88 13 53	1	.07	.5	N	<.2	.1	N	N	N	30
I35R0366	37 33 42	88 13 53	.15	.3	.5	N	<.2	.3	<.5	N	N	100
I35R0378	37 33 42	88 13 53	.15	1	1	N	<.2	.5	N	N	N	150
I35R0388	37 33 42	88 13 53	5	1	.2	<.2	.3	.5	N	N	N	50
I35R0398	37 33 42	88 13 53	1	.2	.5	<.2	<.2	.3	N	N	N	70
I35R0415	37 33 42	88 13 53	.2	.15	.5	<.2	<.2	.2	N	N	N	100
I35R0436	37 33 42	88 13 53	1	.3	.2	<.2	<.2	.3	N	N	N	70
I35R0447	37 33 42	88 13 53	.2	2	.5	<.2	<.2	.7	N	N	N	100
I35R0464	37 33 42	88 13 53	2	.3	.7	<.2	<.2	.3	N	N	N	100
I35R0484	37 33 42	88 13 53	3	3	.2	<.2	<.2	.5	<.5	N	N	150
I35R0495	37 33 42	88 13 53	3	.2	1	<.2	<.2	.2	N	N	N	50
I35R0507	37 33 42	88 13 53	.15	.5	.3	<.2	<.2	.7	N	N	N	150
I35R0517	37 33 42	88 13 53	3	.1	.07	<.2	<.2	.1	N	N	N	20
I35R0528	37 33 42	88 13 53	.15	.5	.3	<.2	<.2	.7	N	N	N	70
I35R0539	37 33 42	88 13 53	.3	.2	.2	<.2	<.2	.5	N	N	N	50
I35R0552	37 33 42	88 13 53	.1	.5	.3	<.2	<.2	1	N	N	N	100
I35R0563	37 33 42	88 13 53	2	.2	.1	<.2	<.2	.01	N	N	N	20
I35R0573	37 33 42	88 13 53	1.5	.1	.07	<.2	<.2	.07	N	N	N	50
I35R0583	37 33 42	88 13 53	2	.05	.05	<.2	<.2	.02	N	N	N	70
I35R0593	37 33 42	88 13 53	1	.07	.07	<.2	<.2	.03	N	N	N	50
I35R0604	37 33 42	88 13 53	2	.15	.07	<.2	<.2	.05	N	N	N	30
I35R0614	37 33 42	88 13 53	2	.3	.2	<.2	<.2	.15	N	N	N	30
I35R0624	37 33 42	88 13 53	2	1	.3	<.2	<.2	.3	N	N	N	70
I35R0641	37 33 42	88 13 53	2	7	.7	<.2	<.2	1	N	N	N	500
I35R0655	37 33 42	88 13 53	2	1.5	.2	<.2	<.2	.3	N	N	N	150
I35R0666	37 33 42	88 13 53	1.5	1	.7	<.2	<.2	.5	2	N	N	200
I35R0675	37 33 42	88 13 53	.7	.05	.07	<.2	<.2	.02	N	N	N	50
I35R0685	37 33 42	88 13 53	1.5	.03	.05	<.2	<.2	.02	N	N	N	50
I35R0698	37 33 42	88 13 53	1	1	.1	<.2	<.2	.2	N	N	N	50
I35R0712	37 33 42	88 13 53	2	1.5	.5	<.2	<.2	.3	N	N	N	200
I35R0726	37 33 42	88 13 53	2	1	.5	<.2	<.2	.5	N	N	N	150
I35R0739	37 33 42	88 13 53	2	.1	.15	<.2	<.2	.15	N	N	N	50
I35R0751	37 33 42	88 13 53	2	5	.7	<.2	<.2	.7	2	N	N	500
I35R0761	37 33 42	88 13 53	2	.3	.5	<.2	<.2	.03	N	N	N	30
I35R0773	37 33 42	88 13 53	1	1	.7	<.2	<.2	.3	N	N	N	50
I35R0783	37 33 42	88 13 53	1.5	3	.5	<.2	<.2	.3	N	N	N	150
I35R0793	37 33 42	88 13 53	1	5	.7	<.2	<.2	.7	N	N	N	300
I35R0805	37 33 42	88 13 53	3	2	.3	<.2	<.2	.2	N	N	N	70
I35R0821	37 33 42	88 13 53	.7	5	1	<.2	<.2	.7	.5	N	N	300
I35R0832	37 33 42	88 13 53	2	7	.5	<.2	<.2	.7	<.5	N	N	500
I35R0843	37 33 42	88 13 53	.2	7	.5	<.2	<.2	.7	.5	N	N	500
I35R0854	37 33 42	88 13 53	.7	5	.5	<.2	<.2	.7	<.5	N	N	300
I35R0862	37 33 42	88 13 53	1.5	.2	.3	<.2	<.2	.1	N	N	N	100

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I35, 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
I35R0153	200	2	N	N	20	150	70	30	N	50	200	5	<20
I35R0163	>5,000	3	N	N	20	150	100	30	N	<50	70	10	<20
I35R0173	200	2	N	N	15	100	200	10	N	N	20	10	N
I35R0182	200	1.5	N	N	10	100	20	50	N	50	100	<5	<20
I35R0199	200	1.5	N	N	15	100	50	30	N	50	20	10	<20
I35R0209	700	1	N	N	10	50	70	15	N	N	15	10	<20
I35R0219	200	2	N	N	20	100	20	50	N	50	20	5	<20
I35R0232	150	3	N	N	15	70	100	20	N	N	20	<5	<20
I35R0246	100	3	N	N	<10	50	5	5	N	<50	20	5	20
I35R0262	150	5	N	N	15	100	150	20	N	N	50	<5	20
I35R0275	200	1.5	N	N	10	100	30	15	N	<50	30	<5	<20
I35R0291	200	3	N	N	15	100	100	20	N	N	50	<5	<20
I35R0301	300	1.5	N	N	15	70	70	20	N	50	15	5	<20
I35R0315	200	1	N	N	<10	50	15	<5	N	<50	<10	7	30
I35R0331	150	<1	N	N	<10	50	20	<5	N	N	10	5	20
I35R0337	300	2	N	N	10	70	20	10	N	N	30	7	20
I35R0349	50	2	N	N	<10	50	50	<5	N	N	15	20	20
I35R0361	50	1	N	N	N	<10	5	<5	N	N	15	<5	<20
I35R0366	30	2	N	N	<10	20	7	5	N	N	10	7	20
I35R0378	50	5	N	N	10	30	30	10	N	N	15	30	30
I35R0388	30	1	N	N	<10	100	100	5	N	50	10	10	30
I35R0398	30	1.5	N	N	<10	15	50	5	N	N	<10	5	<20
I35R0415	50	2	N	N	<10	10	100	5	N	N	<10	<5	<20
I35R0436	700	1	N	N	<10	20	100	7	N	<50	10	5	20
I35R0447	200	1	N	N	<10	30	50	10	N	<50	20	5	30
I35R0464	300	<1	N	N	<10	50	150	7	N	N	50	5	N
I35R0484	500	1	N	N	10	50	150	10	N	N	20	5	20
I35R0495	150	<1	N	N	<10	15	50	5	N	N	20	5	<20
I35R0507	150	1	N	N	<10	20	50	7	N	N	20	5	30
I35R0517	100	N	N	N	N	10	10	5	N	N	<10	<5	N
I35R0528	100	1	N	N	N	20	50	7	N	N	<10	5	50
I35R0539	70	<1	N	N	N	15	30	5	N	<50	<10	5	20
I35R0552	20	1	N	N	N	30	50	7	N	N	<10	<5	30
I35R0563	30	N	N	N	N	<10	20	5	N	N	<10	5	30
I35R0573	1,000	N	N	N	N	10	7	5	N	N	<10	<5	N
I35R0583	150	N	N	N	N	<10	5	5	N	N	<10	<5	N
I35R0593	100	N	N	N	N	10	5	<5	N	N	<10	<5	N
I35R0604	50	N	N	N	N	<10	7	<5	N	N	<10	5	N
I35R0614	300	N	N	N	N	20	10	5	N	N	<10	15	N
I35R0624	700	1	N	N	N	50	50	5	N	N	10	10	N
I35R0641	1,000	5	N	N	20	300	100	15	N	<50	100	20	30
I35R0655	500	1	N	N	<10	30	50	<5	N	N	30	5	20
I35R0666	300	1.5	N	N	15	70	50	<5	N	N	20	20	30
I35R0675	<20	<1	N	N	N	<10	10	<5	N	N	<10	7	N
I35R0685	N	<1	N	N	N	10	5	<5	N	N	<10	10	N
I35R0698	150	<1	N	N	N	20	50	<5	N	N	15	15	N
I35R0712	200	1.5	N	N	<10	70	70	5	N	N	50	20	30
I35R0726	300	1.5	N	N	10	70	70	7	N	N	70	30	20
I35R0739	50	N	N	N	N	10	10	5	N	N	<10	5	N
I35R0751	500	2	N	100	15	150	150	20	N	<50	100	150	30
I35R0761	<20	N	N	N	N	<10	20	5	N	N	10	20	N
I35R0773	<20	1	N	N	<10	10	20	5	N	N	20	20	<20
I35R0783	700	1.5	N	N	10	20	70	10	N	N	100	15	20
I35R0793	700	2	N	N	20	100	70	20	N	50	100	15	<20
I35R0805	100	<1	N	N	10	20	50	5	N	N	50	15	N
I35R0821	300	2	N	N	15	150	100	30	N	<50	150	50	N
I35R0832	300	2	N	N	15	200	150	15	N	N	200	50	30
I35R0843	500	2	N	N	20	150	150	30	N	N	300	50	20
I35R0854	300	1.5	N	N	10	100	100	10	N	N	150	50	20
I35R0862	70	N	N	N	N	20	7	<5	N	N	10	5	<20

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I35, 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 #
I35R0153	100	10	N	10	N	100	N	150	<20	15	<200	150	.21	5
I35R0163	100	10	N	10	N	100	N	200	<20	10	<200	150	.21	5
I35R0173	70	<10	N	7	N	100	N	100	<20	<10	<200	300	.14	5
I35R0182	50	<10	N	15	N	100	N	150	<20	30	<200	150	.18	5
I35R0199	70	<10	N	15	N	100	N	100	<20	20	<200	150	.17	5
I35R0209	30	<10	N	7	N	100	N	100	<20	10	<200	300	.13	5
I35R0219	70	<10	N	10	N	100	N	150	<20	20	<200	100	.2	5
I35R0232	50	<10	N	7	N	100	N	150	<20	10	<200	300	.14	6
I35R0246	20	<10	N	5	N	100	N	50	<20	15	<200	200	.07	6
I35R0262	50	<10	N	7	N	100	N	100	<20	10	<200	300	.36	6
I35R0275	50	<10	N	10	N	100	N	100	<20	20	<200	300	.12	6
I35R0291	70	<10	N	10	N	100	N	150	<20	10	<200	200	.32	6
I35R0301	70	<10	N	7	N	200	N	150	<20	10	200	200	.34	6
I35R0315	20	<10	N	5	N	100	N	70	<20	<10	<200	500	2.18	6
I35R0331	20	<10	N	5	N	100	N	70	<20	<10	<200	1,000	.14	6
I35R0337	30	<10	N	5	N	200	N	70	<20	10	<200	500	.18	6
I35R0349	20	5,000	N	N	N	100	N	50	<20	<10	<200	150	6.38	6
I35R0361	10	<10	N	N	N	100	N	20	<20	N	<200	100	.06	6
I35R0366	20	<10	N	5	N	100	N	30	<20	<10	<200	100	.12	6
I35R0378	70	50	N	5	N	<100	N	50	<20	N	<200	200	.34	6
I35R0388	20	20	N	N	N	200	N	20	<20	10	N	1,000	.1	6
I35R0398	7	<10	N	N	N	150	N	10	<20	N	N	1,000	.18	6
I35R0415	5	<10	N	N	N	100	N	15	<20	N	N	300	.15	6
I35R0436	10	<10	N	N	N	100	N	20	<20	N	N	200	.08	6
I35R0447	20	<10	N	5	N	100	N	30	<20	N	N	200	.22	6
I35R0464	15	10	N	<5	N	300	N	50	<20	<10	<200	100	.2	6
I35R0484	70	10	N	5	N	3,000	N	50	<20	<10	N	700	.82	6
I35R0495	15	<10	N	N	N	<100	N	20	<20	<10	N	150	.13	6
I35R0507	20	<10	N	5	N	<100	N	50	<20	<10	N	1,000	.14	6
I35R0517	7	<10	N	N	N	<100	N	15	<20	N	N	200	2.62	6
I35R0528	20	<10	N	5	N	<100	N	20	<20	<10	N	1,000	.1	6
I35R0539	15	<10	N	<5	N	<100	N	20	<20	N	N	700	.04	6
I35R0552	20	<10	N	5	N	<100	N	20	<20	10	N	>1,000	.09	6
I35R0563	<5	<10	N	N	N	<100	N	10	<20	N	N	50	.02	6
I35R0573	15	<10	N	N	N	<100	N	20	<20	N	N	30	.01	6
I35R0583	<5	<10	N	N	N	200	N	15	20	N	N	30	<.01	6
I35R0593	10	<10	N	N	N	300	N	20	<20	N	N	50	<.01	6
I35R0604	20	<10	N	N	N	200	N	20	<20	N	N	50	.01	6
I35R0614	20	<10	N	N	N	>5,000	N	50	<20	N	N	50	.05	6
I35R0624	100	<10	N	5	N	>5,000	N	100	<20	N	N	100	.38	6
I35R0641	1,000	50	N	15	N	1,500	N	300	<20	10	1,000	300	.24	6
I35R0655	20	10	N	5	N	>5,000	N	50	<20	N	N	200	.88	6
I35R0666	150	10	N	5	N	100	N	100	<20	N	<200	150	.11	6
I35R0675	5	<10	N	N	N	<100	N	10	<20	N	N	15	.03	6
I35R0685	7	N	N	N	N	100	N	<10	<20	N	N	<10	.03	6
I35R0698	15	<10	N	N	N	300	N	20	<20	N	N	150	.05	6
I35R0712	50	10	N	5	N	100	N	100	<20	N	N	200	.09	6
I35R0726	50	15	N	7	N	700	N	100	<20	N	1,500	300	.13	6
I35R0739	7	<10	N	N	N	1,000	N	15	<20	N	N	100	<.01	6
I35R0751	200	100	N	15	N	1,500	N	200	<20	10	2,000	300	1.26	6
I35R0761	20	N	N	N	N	<100	N	10	<20	N	N	100	.05	6
I35R0773	20	<10	N	<5	N	<100	N	15	<20	N	N	300	.03	6
I35R0783	50	20	N	N	N	200	N	50	<20	N	N	200	.26	6
I35R0793	70	20	N	15	N	1,000	N	150	<20	<10	N	200	.19	6
I35R0805	50	<10	N	<5	N	700	N	70	<20	N	N	100	1.17	6
I35R0821	70	30	N	10	N	700	N	300	<20	<10	N	200	.22	6
I35R0832	200	70	N	10	N	1,500	N	500	<20	N	500	300	.38	6
I35R0843	150	70	N	10	N	<100	N	200	<20	N	N	300	.24	6
I35R0854	150	50	N	7	N	200	N	150	<20	N	700	500	.66	6
I35R0862	5	<10	N	N	N	<100	N	10	<20	N	N	300	.04	6

TABLE 8--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I35, 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
I35R0875	37 33 42	88 13 53	.2	10	.5	<.2	<.2	.5	.5	N	N	300
I35R0889	37 33 42	88 13 53	2	7	.7	<.2	<.2	.7	.5	N	N	500
I35R0900	37 33 42	88 13 53	5	3	.2	<.2	<.2	.3	<.5	N	N	100
I35R0915	37 33 42	88 13 53	10	1.5	.3	<.2	<.2	.2	N	N	N	100
I35R0925	37 33 42	88 13 53	.2	7	.7	<.2	<.2	.7	N	N	N	500
I35R0935	37 33 42	88 13 53	1.5	3	.2	<.2	<.2	.3	N	N	N	100
I35R0947	37 33 42	88 13 53	.2	5	.5	<.2	<.2	.5	N	N	N	200
I35R0953	37 33 42	88 13 53	.3	7	.7	<.2	<.2	1	N	N	N	500
I35R0964	37 33 42	88 13 53	.3	7	.5	<.2	<.2	.5	.5	N	N	200
I35R0976	37 33 42	88 13 53	2	.2	.15	<.2	<.2	.05	N	N	N	50
I35R0991	37 33 42	88 13 53	2	7	.7	<.2	<.2	.5	<.5	N	N	200

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
I35R0875	300	1.5	N	N	20	100	150	30	N	N	150	50	50
I35R0889	500	2	N	N	15	150	100	30	N	<50	200	50	20
I35R0900	500	1	N	N	<10	50	70	5	N	N	30	10	N
I35R0915	100	1	N	N	N	20	30	<5	N	N	50	<5	N
I35R0925	500	2	N	N	15	100	100	20	N	<50	200	30	<20
I35R0935	500	1	N	N	N	50	100	7	N	N	50	50	N
I35R0947	300	1.5	N	N	10	100	100	15	N	N	150	30	N
I35R0953	500	2	N	N	15	100	70	20	N	50	200	20	<20
I35R0964	300	1.5	N	N	10	100	100	15	N	N	100	20	20
I35R0976	50	<1	N	N	N	20	10	<5	N	N	<10	7	<20
I35R0991	300	1.5	N	N	15	70	100	15	N	<50	200	50	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 #
I35R0875	150	70	N	10	N	100	N	200	<20	<10	N	500	.22	6
I35R0889	150	70	N	10	N	300	N	200	<20	<10	<200	300	.22	6
I35R0900	70	50	N	5	N	>5,000	N	100	<20	N	200	100	.1	6
I35R0915	30	10	N	5	N	500	N	100	<20	N	N	50	.04	6
I35R0925	70	50	N	15	N	300	N	200	<20	<10	N	200	.26	6
I35R0935	50	<10	N	5	N	>5,000	N	100	<20	N	N	200	1	6
I35R0947	70	50	N	10	N	1,000	N	100	<20	N	N	200	.28	6
I35R0953	70	70	N	15	N	100	N	200	<20	N	N	150	.19	6
I35R0964	70	50	N	7	N	<100	N	150	<20	N	N	200	.11	6
I35R0976	5	<10	N	N	N	<100	N	10	<20	N	N	30	.02	6
I35R0991	100	50	N	10	N	<100	N	200	<20	<10	N	100	.27	6

TABLE 9 --ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I36, 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
I36A0246	37 33 38	88 12 27	.1	7	1	<.2	<.2	1
I36R0204	37 33 38	88 12 27	.2	.5	.3	<.2	<.2	1
I36R0212	37 33 38	88 12 27	.1	10	1	<.2	<.2	1
I36R0228	37 33 38	88 12 27	.1	3	.7	<.2	<.2	.5
I36R0233	37 33 38	88 12 27	.1	3	1	<.2	<.2	1
I36R0256	37 33 38	88 12 27	.15	5	1	<.2	<.2	.7
I36R0266	37 33 38	88 12 27	.7	5	1.5	<.2	<.2	.7
I36R0275	37 33 38	88 12 27	1	1	.5	<.2	<.2	.5
I36R0286	37 33 38	88 12 27	.5	.3	.05	<.2	<.2	.1
I36R0296	37 33 38	88 12 27	.7	7	1.5	<.2	<.2	1
I36R0312	37 33 38	88 12 27	.15	1	.5	<.2	<.2	.7
I36R0322	37 33 38	88 12 27	.3	7	1.5	<.2	<.2	1
I36R0334	37 33 38	88 12 27	.15	.2	.15	<.2	<.2	.2
I36R0344	37 33 38	88 12 27	.15	.5	.3	<.2	<.2	.3
I36R0359	37 33 38	88 12 27	.1	.3	.5	<.2	<.2	.5
I36R0368	37 33 38	88 12 27	.15	.3	.5	<.2	<.2	.2
I36R0380	37 33 38	88 12 27	.07	.3	.3	<.2	<.2	.3
I36R0392	37 33 38	88 12 27	3	.1	.07	<.2	<.2	.2
I36R0405	37 33 38	88 12 27	1	.05	.05	<.2	<.2	.05
I36R0421	37 33 38	88 12 27	2	<.05	.03	<.2	<.2	.02
I36R0435	37 33 38	88 12 27	2	.15	.05	<.2	<.2	.1
I36R0445	37 33 38	88 12 27	.5	<.05	.03	<.2	<.2	.02
I36R0462	37 33 38	88 12 27	.2	.07	.1	<.2	<.2	.1
I36R0473	37 33 38	88 12 27	.2	.2	.5	<.2	<.2	.2

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
I36A0246	N	N	N	300	200	1.5	N	N	15	100	10
I36R0204	N	N	N	100	100	2	N	N	10	100	5
I36R0212	.5	N	N	300	3,000	10	N	N	50	150	150
I36R0228	N	N	N	150	1,000	1.5	N	N	10	70	100
I36R0233	N	N	N	200	1,500	1.5	N	N	15	70	50
I36R0256	N	N	N	200	300	1.5	N	N	15	150	50
I36R0266	N	N	N	500	200	1.5	N	N	20	150	70
I36R0275	N	N	N	70	100	2	N	N	10	100	70
I36R0286	N	N	N	10	20	<1	N	N	N	15	15
I36R0296	N	N	N	500	200	2	N	N	10	100	10
I36R0312	N	N	N	100	300	1	N	N	N	50	7
I36R0322	N	N	N	300	500	3	N	N	15	150	200
I36R0334	N	N	N	50	70	1.5	N	N	<10	70	100
I36R0344	N	N	N	100	150	1.5	N	N	15	100	5
I36R0359	N	N	N	150	100	3	N	N	15	100	100
I36R0368	N	N	N	150	70	2	N	N	N	50	20
I36R0380	N	N	N	100	150	1.5	N	N	30	50	30
I36R0392	30	N	N	50	50	1.5	N	N	N	70	100
I36R0405	N	N	N	20	20	1	N	N	N	15	7
I36R0421	1	N	N	10	<20	<1	N	N	N	15	150
I36R0435	N	N	N	20	30	1	N	N	N	20	20
I36R0445	N	N	N	<10	<20	N	N	N	N	10	<5
I36R0462	N	N	N	20	30	<1	N	N	N	20	<5
I36R0473	N	N	N	100	50	5	N	N	N	30	15

TABLE 9--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I36, 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
I36A0246	50	N	50	30	<5	<20	100	<10	N
I36R0204	7	N	<50	20	<5	<20	20	<10	N
I36R0212	70	N	<50	100	<5	N	200	20	N
I36R0228	10	N	N	20	5	N	30	<10	N
I36R0233	30	N	<50	30	<5	<20	50	<10	N
I36R0256	50	N	<50	50	<5	N	100	<10	N
I36R0266	50	N	50	50	<5	<20	100	<10	N
I36R0275	5	N	N	15	<5	N	15	<10	N
I36R0286	<5	N	N	<10	<5	N	<5	<10	N
I36R0296	50	N	<50	100	<5	N	70	<10	N
I36R0312	7	N	<50	10	<5	N	15	<10	N
I36R0322	30	N	50	30	<5	N	50	<10	N
I36R0334	<5	N	N	<10	N	N	10	<10	N
I36R0344	5	N	N	20	N	N	20	<10	N
I36R0359	10	N	N	20	N	<20	15	30	N
I36R0368	15	N	N	20	N	N	20	50	N
I36R0380	7	N	N	15	N	<20	100	<10	N
I36R0392	5	N	N	<10	N	N	5	>20,000	300
I36R0405	<5	N	N	<10	N	N	<5	1,000	N
I36R0421	<5	N	N	<10	N	N	<5	3,000	N
I36R0435	<5	N	N	15	20	N	10	150	N
I36R0445	<5	N	N	<10	N	N	<5	15	N
I36R0462	<5	N	N	<10	N	N	5	<10	N
I36R0473	7	N	N	15	5	N	20	30	N

Sample	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I36A0246	20	N	<100	N	200	<20	15	N	200	.11	5
I36R0204	5	N	<100	N	50	<20	10	N	1,000	.07	5
I36R0212	15	N	<100	N	200	<20	<10	N	150	.27	5
I36R0228	7	N	<100	N	100	<20	N	N	200	.09	5
I36R0233	10	N	<100	N	100	<20	<10	N	200	.16	5
I36R0256	15	N	<100	N	200	<20	15	N	150	.15	5
I36R0266	15	N	<100	N	150	<20	15	N	150	.23	5
I36R0275	5	N	<100	N	150	<20	N	N	1,000	.12	5
I36R0286	N	N	<100	N	15	<20	N	N	200	.01	6
I36R0296	15	N	<100	N	200	<20	<10	N	150	.23	6
I36R0312	5	N	100	N	50	<20	10	N	500	.05	6
I36R0322	15	N	150	N	300	<20	10	N	300	.27	6
I36R0334	5	N	<100	N	50	<20	N	N	100	.09	6
I36R0344	5	N	<100	N	70	<20	N	N	300	.1	6
I36R0359	7	N	<100	N	100	<20	N	N	100	.25	6
I36R0368	5	N	<100	N	70	<20	N	N	50	.4	6
I36R0380	7	N	100	N	70	<20	N	N	100	.16	6
I36R0392	5	N	<100	N	20	<20	N	1,000	300	5.87	6
I36R0405	N	N	<100	N	20	<20	N	7,000	100	.86	6
I36R0421	N	N	<100	N	10	<20	N	500	<10	2.15	6
I36R0435	N	N	<100	N	30	<20	N	700	100	5.99	6
I36R0445	N	N	<100	N	10	<20	N	N	<10	.09	6
I36R0462	N	N	100	N	15	<20	N	<200	50	.37	6
I36R0473	5	N	<100	N	50	<20	N	<200	50	.31	6

TABLE 10--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I37, 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
I37R0045	37 31 3	88 11 43	.1	5	.7	<.2	<.2	.7	N	N	N	200
I37R0056	37 31 3	88 11 43	.1	5	1	<.2	<.2	1	N	N	N	300
I37R0066	37 31 3	88 11 43	2	3	1	<.2	<.2	.7	N	N	N	300
I37R0079	37 31 3	88 11 43	.2	3	.7	<.2	<.2	.5	N	N	N	150
I37R0113	37 31 3	88 11 43	2	.5	.3	<.2	<.2	.3	N	N	N	70
I37R0125	37 31 3	88 11 43	2	.5	.5	<.2	<.2	.3	N	N	N	70
I37R0137	37 31 3	88 11 43	.2	.15	.3	<.2	<.2	.3	N	N	N	50
I37R0146	37 31 3	88 11 43	.15	.05	.05	<.2	<.2	.15	N	N	N	<10
I37R0157	37 31 3	88 11 43	7	<.05	.03	<.2	<.2	.05	N	N	N	<10
I37R0163	37 31 3	88 11 43	3	.07	.05	<.2	<.2	.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
I37R0045	1,000	5	N	N	30	100	15	20	N	<50	20	<5	<20
I37R0056	3,000	10	N	N	30	150	100	50	N	70	30	<5	<20
I37R0066	>5,000	10	N	N	15	100	50	10	N	50	30	<5	<20
I37R0079	>5,000	7	N	N	15	50	50	15	N	N	20	<5	N
I37R0113	5,000	3	N	N	N	20	<5	5	N	<50	10	<5	N
I37R0125	5,000	2	N	N	<10	50	<5	10	N	<50	20	<5	N
I37R0137	2,000	1.5	N	N	N	20	20	5	N	<50	<10	<5	N
I37R0146	700	N	N	N	N	50	<5	<5	N	<50	<10	<5	N
I37R0157	300	<1	N	N	N	<10	5	<5	N	N	<10	<5	N
I37R0163	2,000	<1	N	N	N	<10	<5	<5	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 #
I37R0045	100	<10	N	10	N	<100	N	200	<20	<10	N	200	.19	5
I37R0056	100	<10	N	20	N	200	N	200	<20	15	N	200	.25	5
I37R0066	70	10	N	10	N	500	N	200	<20	<10	N	300	1.51	5
I37R0079	50	<10	N	5	N	500	N	150	<20	N	10,000	100	.18	6
I37R0113	15	<10	N	<5	N	100	N	70	<20	N	N	300	2.87	6
I37R0125	10	100	N	<5	N	100	N	70	<20	N	N	100	.11	6
I37R0137	<5	N	N	<5	N	<100	N	70	<20	N	N	200	.07	6
I37R0146	5	N	N	N	N	<100	N	15	<20	N	N	500	.02	6
I37R0157	<5	N	N	N	N	<100	N	10	<20	N	N	20	6.71	6
I37R0163	<5	N	N	N	N	<100	N	<10	<20	N	N	<10	2.19	6

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I38, 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
I38R0035	37 28 20	88 17 21	.5	.1	.2	<.2	<.2	1	N	N	N	100
I38R0052	37 28 20	88 17 21	.2	2	.2	<.2	<.2	.3	N	N	N	70
I38R0055	37 28 20	88 17 21	.1	5	1	<.2	<.2	.7	<.5	N	N	300
I38R0060	37 28 20	88 17 21	.05	.2	.1	<.2	<.2	.15	N	N	N	15
I38R0076	37 28 20	88 17 21	.15	2	.7	<.2	<.2	.7	<.5	N	N	300
I38R0087	37 28 20	88 17 21	.1	.3	.5	<.2	<.2	.5	N	N	N	100
I38R0110	37 28 20	88 17 21	.1	.1	1	<.2	<.2	.1	N	N	N	300
I38R0136	37 28 20	88 17 21	.3	.7	.7	<.2	<.2	.3	<.5	N	N	300
I38R0156	37 28 20	88 17 21	.2	1	.2	<.2	<.2	.15	N	N	N	150
I38R0185	37 28 20	88 17 21	.15	1	.3	<.2	<.2	.5	N	N	N	50
I38R0205	37 28 20	88 17 21	.2	1	.2	<.2	<.2	.3	N	N	N	50
I38R0220	37 28 20	88 17 21	.2	.3	.3	<.2	<.2	.2	N	N	N	
I38R0238	37 28 20	88 17 21	.15	.15	.3	<.2	<.2	.2	N	N	N	100
I38R0252	37 28 20	88 17 21	2	.5	.3	.2	<.2	.2	N	N	N	50
I38R0263	37 28 20	88 17 21	2	.15	.2	<.2	<.2	.2	N	N	N	50
I38R0273	37 28 20	88 17 21	.2	.2	.3	<.2	<.2	.3	N	N	N	100
I38R0285	37 28 20	88 17 21	1.5	.1	.3	<.2	<.2	.07	N	N	N	50
I38R0301	37 28 20	88 17 21	1.5	.5	.15	<.2	<.2	.15	N	N	N	20
I38R0315	37 28 20	88 17 21	2	.1	.1	<.2	<.2	.1	N	N	N	15
I38R0332	37 28 20	88 17 21	.5	.2	.2	<.2	<.2	.2	N	N	N	50
I38R0344	37 28 20	88 17 21	1.5	.1	.15	<.2	<.2	.05	N	N	N	15
I38R0354	37 28 20	88 17 21	1	.15	.5	<.2	<.2	.1	N	N	N	30
I38R0363	37 28 20	88 17 21	.5	.2	.05	<.2	<.2	.15	N	N	N	30
I38R0376	37 28 20	88 17 21	.5	1	.3	<.2	<.2	.3	.5	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I38R0035	20	1	N	N	N	500	70	5	N	N	30	<5	20
I38R0052	30	2	N	N	10	50	50	7	N	N	20	<5	<20
I38R0055	100	7	N	N	15	150	70	50	N	N	50	<5	<20
I38R0060	<20	1	N	N	<10	15	<5	<5	N	N	30	<5	20
I38R0076	150	7	N	N	10	100	100	30	N	N	50	<5	<20
I38R0087	20	2	N	N	<10	<10	30	5	N	N	10	<5	20
I38R0110	300	5	N	N	<10	<10	70	15	N	N	<10	<5	20
I38R0136	50	2	N	N	10	50	30	5	N	N	10	5	20
I38R0156	70	1.5	N	N	N	50	50	5	N	N	10	5	50
I38R0185	20	2	N	N	N	20	50	5	N	N	10	5	70
I38R0205	70	2	N	N	N	20	100	5	N	N	<10	5	20
I38R0220	30	1.5	N	N	N	10	50	5	N	N	<10	<5	<20
I38R0238	20	3	N	N	N	<10	30	<5	N	N	10	7	70
I38R0252	50	1.5	N	N	N	<10	20	<5	N	N	10	<5	<20
I38R0263	50	1	N	N	N	<10	15	<5	N	N	10	<5	<20
I38R0273	200	1.5	N	N	N	70	20	<5	N	N	15	<5	N
I38R0285	100	1	N	N	N	10	70	<5	N	N	20	<5	N
I38R0301	300	1	N	N	N	10	10	<5	N	N	<10	<5	<20
I38R0315	50	1	N	N	N	10	10	<5	N	N	10	<5	20
I38R0332	20	1.5	N	N	N	10	30	<5	N	N	10	<5	20
I38R0344	20	1	N	N	N	50	70	<5	N	N	10	<5	20
I38R0354	50	1	N	N	N	20	10	<5	N	N	15	<5	<20
I38R0363	100	1	N	N	N	30	10	<5	N	N	10	<5	N
I38R0376	<20	2	N	N	N	20	20	<5	N	N	30	<5	20

TABLE 11--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I38, 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 #
I38R0035	5	30	N	N	N	100	N	20	<20	30	N	>1,000	.06	6
I38R0052	50	<10	N	N	N	100	N	30	<20	<10	N	300	.04	6
I38R0055	50	<10	N	10	N	<100	N	100	<20	<10	N	150	.3	6
I38R0060	5	<10	N	N	N	<100	N	10	<20	N	N	200	.04	6
I38R0076	50	<10	N	10	N	100	N	150	<20	<10	N	150	.23	6
I38R0087	15	<10	N	<5	N	<100	N	20	<20	N	N	200	.13	6
I38R0110	10	<10	N	N	N	<100	N	15	<20	N	N	100	.16	6
I38R0136	30	<10	N	5	N	100	N	50	<20	N	N	150	.41	6
I38R0156	15	<10	N	<5	N	<100	N	20	<20	N	N	200	.09	6
I38R0185	20	<10	N	<5	N	<100	N	15	<20	N	N	300	.07	6
I38R0205	20	<10	N	<5	N	<100	N	20	<20	N	N	150	.06	6
I38R0220	10	<10	N	<5	N	100	N	<10	<20	N	N	150	.06	6
I38R0238	15	<10	N	N	N	<100	N	15	<20	N	700	500	.09	6
I38R0252	15	<10	N	N	N	<100	N	15	<20	N	<200	200	.25	6
I38R0263	15	<10	N	N	N	<100	N	15	<20	N	N	100	.14	6
I38R0273	15	<10	N	5	N	<100	N	30	<20	N	N	100	.13	6
I38R0285	10	<10	N	<5	N	<100	N	20	<20	N	N	50	.1	6
I38R0301	7	<10	N	<5	N	<100	N	15	<20	N	N	150	.03	6
I38R0315	7	<10	N	N	N	<100	N	15	<20	N	<200	150	.01	6
I38R0332	10	<10	N	<5	N	<100	N	20	<20	N	N	150	.06	6
I38R0344	7	<10	N	N	N	<100	N	15	<20	N	N	100	.02	6
I38R0354	7	<10	N	N	N	<100	N	20	<20	N	N	100	.02	6
I38R0363	10	<10	N	N	N	<100	N	20	<20	N	N	300	.01	6
I38R0376	15	<10	N	<5	N	<100	N	30	<20	N	N	200	.09	6

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R0145	37 28 13	88 8 27	.15	.5	.2	.3	<.2	.3	N	N	N	100
I39R0165	37 28 13	88 8 27	.05	.5	.2	.3	<.2	.5	N	N	N	100
I39R0185	37 28 13	88 8 27	.05	.3	.15	.2	<.2	.7	N	N	N	100
I39R0190	37 28 13	88 8 27	<.05	1	.3	<.2	<.2	.7	N	N	N	200
I39R0200	37 28 13	88 8 27	.07	.7	.15	<.2	<.2	.5	N	N	N	50
I39R0220	37 28 13	88 8 27	.1	.5	.2	.2	<.2	.3	N	N	N	50
I39R0240	37 28 13	88 8 27	.1	1	.2	.2	<.2	.5	N	N	N	100
I39R0260	37 28 13	88 8 27	.05	1	.1	<.2	<.2	.3	N	N	N	50
I39R0270	37 28 13	88 8 27	.07	1	.2	.2	<.2	.5	N	N	N	100
I39R0280	37 28 13	88 8 27	.1	1.5	.5	<.2	<.2	1	<.5	N	N	300
I39R0290	37 28 13	88 8 27	.05	1	.5	<.2	<.2	1	N	N	N	200
I39R0300	37 28 13	88 8 27	.1	1	.3	<.2	<.2	.5	N	N	N	150
I39R0310	37 28 13	88 8 27	.05	.5	.5	<.2	<.2	>1	N	N	N	150
I39R0330	37 28 13	88 8 27	<.05	.7	.3	.3	<.2	>1	N	N	N	150
I39R0340	37 28 13	88 8 27	.05	1	.5	.2	<.2	1	N	N	N	150
I39R0360	37 28 13	88 8 27	.07	1	.5	.3	<.2	1	N	N	N	150
I39R0380	37 28 13	88 8 27	.07	.5	.3	.3	<.2	.5	N	N	N	100
I39R0390	37 28 13	88 8 27	.07	3	.5	.2	<.2	.7	<.5	N	N	150
I39R0410	37 28 13	88 8 27	.05	5	.5	.2	<.2	>1	N	N	N	200
I39R0425	37 28 13	88 8 27	<.05	1.5	.2	.3	<.2	1	N	N	N	100
I39R0435	37 28 13	88 8 27	<.05	3	.3	.2	<.2	1	N	N	N	200
I39R0440	37 28 13	88 8 27	<.05	20	.15	<.2	<.2	.3	N	N	N	300
I39R0465	37 28 13	88 8 27	<.05	1.5	.1	<.2	<.2	.5	N	N	N	70
I39R0475	37 28 13	88 8 27	<.05	10	.2	<.2	<.2	.5	N	N	N	150
I39R0485	37 28 13	88 8 27	<.05	3	.2	<.2	<.2	.5	N	N	N	100
I39R0500	37 28 13	88 8 27	<.05	.5	.07	<.2	<.2	.3	N	N	N	30
I39R0510	37 28 13	88 8 27	<.05	1.5	.2	<.2	<.2	.7	N	N	N	100
I39R0535	37 28 13	88 8 27	<.05	1	.15	<.2	<.2	.7	N	N	N	100
I39R0560	37 28 13	88 8 27	<.05	.5	.05	<.2	<.2	.15	N	N	N	10
I39R0580	37 28 13	88 8 27	<.05	.3	.05	<.2	<.2	.2	N	N	N	20
I39R0605	37 28 13	88 8 27	.05	5	.2	<.2	<.2	.5	N	N	N	100
I39R0615	37 28 13	88 8 27	<.05	3	.5	<.2	<.2	.7	N	N	N	200
I39R0640	37 28 13	88 8 27	.015	3	.7	.3	<.2	.7	N	N	N	200
I39R0660	37 28 13	88 8 27	.2	5	1	.2	<.2	1	N	N	N	500
I39R0680	37 28 13	88 8 27	.15	.5	.2	<.2	<.2	.5	N	N	N	70
I39R0700	37 28 13	88 8 27	.05	.2	.15	<.2	<.2	.3	N	N	N	50
I39R0720	37 28 13	88 8 27	.1	3	.7	.2	<.2	1	N	N	N	200
I39R0740	37 28 13	88 8 27	.2	5	1	<.2	<.2	1	N	N	N	200
I39R0750	37 28 13	88 8 27	.07	3	1	<.2	<.2	1	N	N	N	300
I39R0760	37 28 13	88 8 27	.1	3	1	.2	<.2	1	N	N	N	300
I39R0780	37 28 13	88 8 27	.7	7	3	<.2	<.2	1	N	N	N	700
I39R0800	37 28 13	88 8 27	.7	7	.5	<.2	<.2	.7	<.5	N	N	200
I39R0810	37 28 13	88 8 27	1.5	7	1	<.2	<.2	.7	<.5	N	N	500
I39R0830	37 28 13	88 8 27	1.5	1	.15	<.2	<.2	.2	N	N	N	100
I39R0840	37 28 13	88 8 27	.2	3	.7	<.2	<.2	.3	N	N	N	150
I39R0860	37 28 13	88 8 27	1.5	--	.3	<.2	<.2	.3	<.5	N	N	150
I39R0870	37 28 13	88 8 27	1.5	.5	.3	<.2	<.2	.3	N	N	N	100
I39R0890	37 28 13	88 8 27	.5	2	.5	<.2	<.2	.5	N	N	N	200
I39R0900	37 28 13	88 8 27	.2	3	1	<.2	<.2	1	N	N	N	300
I39R0910	37 28 13	88 8 27	.2	.2	.2	<.2	<.2	.1	N	N	N	100
I39R0920	37 28 13	88 8 27	.5	1	.5	<.2	<.2	.3	N	N	N	100
I39R0930	37 28 13	88 8 27	2	.5	.3	<.2	<.2	.2	N	N	N	100
I39R0940	37 28 13	88 8 27	1	1	.5	<.2	<.2	.3	N	N	N	150
I39R0960	37 28 13	88 8 27	.5	.3	.5	<.2	<.2	.15	N	N	N	100
I39R0980	37 28 13	88 8 27	10	.3	1	<.2	<.2	.15	N	N	N	150
I39R1000	37 28 13	88 8 27	.5	.2	.5	<.2	<.2	.15	N	N	N	100
I39R1010	37 28 13	88 8 27	.2	.5	1	<.2	<.2	.2	N	N	N	100
I39R1020	37 28 13	88 8 27	.5	.5	.7	<.2	<.2	.15	N	N	N	150
I39R1035	37 28 13	88 8 27	.3	1	1	<.2	<.2	.3	N	N	N	150
I39R1060	37 28 13	88 8 27	.5	.3	.15	<.2	<.2	.1	N	N	N	50

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R0145	500	1	N	N	N	50	5	5	N	N	100	<5	N
I39R0165	200	1.5	N	N	<10	50	20	5	N	N	20	<5	N
I39R0185	200	1	N	N	<10	50	20	5	N	N	20	<5	N
I39R0190	300	3	N	N	<10	150	50	20	N	<50	15	<5	<20
I39R0200	150	<1	N	N	<10	70	100	5	N	N	30	<5	N
I39R0220	300	1	N	N	<10	30	<5	5	N	N	50	<5	N
I39R0240	300	1	N	N	<10	20	7	10	N	N	50	<5	N
I39R0260	200	<1	N	N	<10	20	70	7	N	N	30	<5	N
I39R0270	300	1	N	N	10	70	20	7	N	N	20	<5	N
I39R0280	700	5	N	N	10	150	20	15	N	<50	100	<5	<20
I39R0290	500	2	N	N	<10	150	15	15	N	N	70	<5	N
I39R0300	300	1.5	N	N	<10	30	150	5	N	N	100	<5	N
I39R0310	700	1.5	N	N	<10	100	5	10	N	50	20	<5	<20
I39R0330	500	1	N	N	10	150	50	10	N	<50	20	<5	<20
I39R0340	500	1	N	N	20	100	50	10	N	<50	30	<5	<20
I39R0360	500	1.5	N	N	10	150	20	10	N	<50	20	<5	<20
I39R0380	500	1.5	N	N	N	70	15	10	N	<50	20	<5	N
I39R0390	1,000	1.5	N	N	20	100	20	15	N	<50	20	<5	<20
I39R0410	1,500	1.5	N	N	30	150	100	20	N	70	70	<5	20
I39R0425	1,500	1	N	N	10	150	50	10	N	50	20	<5	<20
I39R0435	1,000	1	N	N	15	70	100	10	N	<50	50	<5	<20
I39R0440	1,500	1	N	N	30	70	100	50	N	N	20	<5	N
I39R0465	500	<1	N	N	N	200	7	5	N	N	<10	<5	N
I39R0475	2,000	1	N	N	10	50	30	10	N	N	20	<5	N
I39R0485	500	<1	N	N	<10	30	5	7	N	N	20	<5	N
I39R0500	150	<1	N	N	N	150	<5	<5	N	N	10	<5	N
I39R0510	1,000	<1	N	N	N	50	7	5	N	N	<10	<5	N
I39R0535	700	<1	N	N	N	100	5	5	N	N	<10	<5	N
I39R0560	1,000	<1	N	N	N	10	<5	<5	N	N	10	<5	N
I39R0580	500	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I39R0605	5,000	1	N	N	10	50	70	10	N	N	15	<5	<20
I39R0615	500	2	N	N	<10	100	70	10	N	N	50	<5	<20
I39R0640	300	1	N	N	10	100	30	15	N	N	50	<5	<20
I39R0660	5,000	1.5	N	N	10	100	100	20	N	N	50	<5	<20
I39R0680	200	<1	N	N	N	30	<5	<5	N	N	15	<5	N
I39R0700	300	<1	N	N	N	50	5	<5	N	N	10	<5	<20
I39R0720	300	2	N	N	10	100	7	30	N	<50	70	<5	<20
I39R0740	300	2	N	N	15	100	150	30	N	50	50	<5	<20
I39R0750	2,000	3	N	N	30	150	30	30	N	<50	30	<5	<20
I39R0760	2,000	3	N	N	10	150	70	70	N	50	50	<5	20
I39R0780	1,000	2	N	N	10	100	150	30	N	N	10	<5	N
I39R0800	1,000	1	N	<20	<10	150	70	5	N	N	20	10	N
I39R0810	1,000	1.5	N	20	<10	100	100	5	N	N	50	30	N
I39R0830	700	<1	N	N	<10	20	<5	<5	N	N	<10	10	N
I39R0840	300	1.5	N	N	<10	20	10	5	N	N	30	<5	N
I39R0860	3,000	<1	N	20	<10	50	20	5	N	N	70	20	N
I39R0870	200	1	N	N	<10	20	7	5	N	N	10	<5	N
I39R0890	150	1.5	N	N	<10	50	10	10	N	N	10	<5	N
I39R0900	1,000	3	N	20	10	150	50	30	N	50	20	20	N
I39R0910	3,000	N	N	N	<10	20	<5	<5	N	N	10	<5	N
I39R0920	300	<1	N	N	<10	30	5	5	N	N	<10	<5	N
I39R0930	100	<1	N	N	<10	20	<5	5	N	N	<10	<5	N
I39R0940	200	1	N	N	<10	50	10	5	N	N	<10	<5	N
I39R0960	300	1	N	N	<10	30	5	<5	N	N	20	<5	N
I39R0980	100	1.5	N	N	<10	30	5	5	N	N	50	<5	N
I39R1000	100	<1	N	N	<10	20	<5	<5	N	N	10	<5	N
I39R1010	150	1	N	N	<10	50	10	5	N	N	30	<5	N
I39R1020	1,000	1.5	N	N	<10	30	7	7	N	N	10	5	N
I39R1035	500	1	N	N	<10	20	20	7	N	N	50	<5	N
I39R1060	2,000	<1	N	N	<10	15	5	<5	N	N	<10	<5	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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 #
I39R0145	10	<10	N	5	N	200	N	70	N	<10	<200	200	.03	4
I39R0165	20	<10	N	5	N	200	N	50	N	10	<200	200	.03	4
I39R0185	15	<10	N	5	N	200	N	70	N	15	<200	300	.03	4
I39R0190	30	<10	N	10	N	200	N	100	N	20	200	200	.04	4
I39R0200	10	<10	N	<5	N	150	N	30	<20	<10	<200	200	.02	4
I39R0220	7	<10	N	5	N	200	N	50	<20	<10	<200	300	.02	4
I39R0240	20	<10	N	5	N	200	N	50	<20	15	<200	150	.02	4
I39R0260	20	<10	N	<5	N	200	N	50	<20	<10	<200	200	.02	4
I39R0270	30	<10	N	5	N	200	N	50	<20	10	<200	300	.04	4
I39R0280	70	30	N	10	N	200	N	100	<20	10	<200	150	.07	4
I39R0290	50	15	N	10	N	200	N	100	<20	<10	200	150	.12	4
I39R0300	20	<10	N	5	N	200	N	70	<20	15	<200	200	.04	4
I39R0310	20	<10	N	10	N	200	N	70	<20	30	<200	500	.05	4
I39R0330	30	<10	N	7	N	200	N	70	<20	30	<200	300	.03	4
I39R0340	50	20	N	10	N	200	N	70	<20	20	<200	200	.04	4
I39R0360	50	<10	N	7	N	200	N	70	<20	20	<200	500	.04	4
I39R0380	10	<10	N	<5	N	200	N	30	<20	10	<200	150	.03	4
I39R0390	50	<10	N	7	N	200	N	100	<20	20	<200	300	.04	5
I39R0410	100	20	N	15	N	700	N	150	<20	30	<200	300	.04	5
I39R0425	20	10	N	10	N	500	N	70	<20	20	<200	1,000	.02	5
I39R0435	50	<10	N	7	N	300	N	100	N	20	300	1,000	.04	5
I39R0440	100	<10	N	5	N	300	N	50	N	15	200	200	.04	5
I39R0465	<5	<10	N	<5	N	100	N	20	N	10	N	>1,000	.03	5
I39R0475	70	<10	N	5	N	200	N	100	N	N	300	100	.03	5
I39R0485	20	<10	N	<5	N	200	N	70	N	N	200	300	.04	5
I39R0500	5	<10	N	N	N	100	N	20	N	N	N	>1,000	.02	5
I39R0510	5	<10	N	<5	N	200	N	30	N	<10	N	>1,000	.03	5
I39R0535	5	<10	N	5	N	200	N	30	N	15	N	1,000	.04	5
I39R0560	5	<10	N	N	N	<100	N	10	N	N	N	100	.01	5
I39R0580	5	<10	N	N	N	100	N	20	N	N	N	300	.02	5
I39R0605	70	<10	N	5	N	1,000	N	100	N	N	N	500	.03	5
I39R0615	30	<10	N	10	N	200	N	100	N	N	N	500	.11	5
I39R0640	50	<10	N	7	N	200	N	150	N	N	200	300	.1	5
I39R0660	50	<10	N	10	N	>5,000	N	200	N	N	N	500	.1	6
I39R0680	<5	<10	N	<5	N	200	N	30	N	N	N	1,000	.04	6
I39R0700	5	<10	N	5	N	100	N	20	N	N	N	500	.02	6
I39R0720	50	<10	N	10	N	100	N	100	N	15	N	200	.13	6
I39R0740	70	10,000	1,500	10	10	200	N	150	N	15	<200	300	.16	6
I39R0750	70	<10	N	15	N	200	N	200	N	15	200	200	.22	6
I39R0760	50	20	N	10	N	2,000	N	100	N	10	<200	100	.37	6
I39R0780	100	<10	N	10	N	200	N	500	<20	<10	<200	200	.58	6
I39R0800	30	<10	N	5	N	500	N	300	<20	<10	1,500	1,000	.25	6
I39R0810	70	15	N	5	N	500	N	300	<20	<10	3,000	1,000	.34	6
I39R0830	5	<10	N	N	N	200	N	20	20	<10	<200	20	.05	6
I39R0840	15	<10	N	<5	N	100	N	50	<20	<10	<200	20	.07	6
I39R0860	15	<10	N	<5	N	150	N	70	<20	<10	1,500	200	.07	6
I39R0870	5	<10	N	N	N	200	N	30	<20	<10	500	300	.07	6
I39R0890	20	<10	N	5	N	200	N	100	<20	<10	1,500	150	.14	6
I39R0900	100	70	N	10	N	200	N	150	<20	<10	1,000	100	.38	6
I39R0910	<5	<10	N	N	N	200	N	20	<20	<10	<200	10	.04	6
I39R0920	20	<10	N	<5	N	500	N	50	<20	<10	<200	70	.08	6
I39R0930	5	<10	N	<5	N	3,000	N	20	<20	<10	<200	10	.06	6
I39R0940	30	<10	N	5	N	5,000	N	100	<20	<10	<200	100	.1	6
I39R0960	20	<10	N	<5	N	3,000	N	70	<20	<10	<200	50	.09	6
I39R0980	20	<10	N	5	N	3,000	N	50	<20	<10	<200	50	.14	6
I39R1000	10	<10	N	N	N	1,000	N	30	<20	<10	<200	100	.07	6
I39R1010	30	<10	N	5	N	5,000	N	70	<20	<10	<200	100	.12	6
I39R1020	30	50	N	5	N	>5,000	N	70	<20	<10	<200	30	.12	6
I39R1035	30	20	N	5	N	5,000	N	70	<20	<10	<200	150	.21	6
I39R1060	15	50	N	<5	N	>5,000	N	20	<20	<10	<200	100	.31	6

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R1070	37 28 13	88 8 27	.2	5	.7	.3	<.2	.7	N	N	N	300
I39R1090	37 28 13	88 8 27	.5	.3	.1	<.2	<.2	.07	N	N	N	100
I39R1100	37 28 13	88 8 27	.3	.5	.1	<.2	<.2	.07	N	N	N	100
I39R1115	37 28 13	88 8 27	.2	.5	.07	<.2	<.2	.05	N	N	N	100
I39R1125	37 28 13	88 8 27	.2	.1	.05	<.2	<.2	.02	N	N	N	100
I39R1140	37 28 13	88 8 27	1.5	1	.2	<.2	<.2	.2	N	N	N	100
I39R1160	37 28 13	88 8 27	.2	5	.5	<.2	<.2	.5	.5	N	N	300
I39R1170	37 28 13	88 8 27	.2	7	.5	.2	<.2	.7	.5	N	N	300
I39R1180	37 28 13	88 8 27	.15	.07	.07	<.2	<.2	.05	N	N	N	100
I39R1190	37 28 13	88 8 27	.2	.15	.07	<.2	<.2	.05	N	N	N	100
I39R1200	37 28 13	88 8 27	5	1	.2	<.2	<.2	.3	<.5	N	N	150
I39R1220	37 28 13	88 8 27	.15	.2	.15	<.2	<.2	.1	<.5	N	N	100
I39R1240	37 28 13	88 8 27	.3	.15	.2	<.2	<.2	.1	<.5	N	N	100
I39R1260	37 28 13	88 8 27	.15	.3	.15	<.2	<.2	.15	<.5	N	N	100
I39R1280	37 28 13	88 8 27	.15	.5	.15	<.2	<.2	.2	<.5	N	N	100
I39R1305	37 28 13	88 8 27	.2	5	.5	.2	<.2	.5	N	N	N	200
I39R1320	37 28 13	88 8 27	.3	3	.5	<.2	<.2	.3	<.5	N	N	300
I39R1340	37 28 13	88 8 27	.15	5	.5	.2	<.2	.5	N	N	N	200
I39R1355	37 28 13	88 8 27	.15	10	.7	.3	<.2	.7	N	N	N	500
I39R1380	37 28 13	88 8 27	.2	3	.5	.2	<.2	.3	N	N	N	200
I39R1400	37 28 13	88 8 27	.05	3	.3	.2	<.2	.5	.5	N	N	200
I39R1420	37 28 13	88 8 27	.07	2	.2	<.2	<.2	.3	<.5	N	N	200
I39R1440	37 28 13	88 8 27	.1	2	.2	<.2	<.2	.3	<.5	N	N	200
I39R1460	37 28 13	88 8 27	.15	.3	.15	<.2	<.2	.1	N	N	N	50
I39R1475	37 28 13	88 8 27	.1	.5	.2	<.2	<.2	.2	N	N	N	70
I39R1495	37 28 13	88 8 27	.15	1	.07	<.2	<.2	.1	N	N	N	50
I39R1515	37 28 13	88 8 27	.15	.3	.07	.5	<.2	.2	N	N	N	15
I39R1525	37 28 13	88 8 27	.2	.5	.07	.2	<.2	.15	N	N	N	15
I39R1535	37 28 13	88 8 27	.07	5	.5	.2	<.2	.5	N	N	N	200
I39R1555	37 28 13	88 8 27	.15	2	.3	.2	<.2	.2	N	N	N	100
I39R1565	37 28 13	88 8 27	.1	3	.2	.5	<.2	.3	N	N	N	150
I39R1580	37 28 13	88 8 27	.1	5	.2	.5	<.2	.5	N	N	N	100
I39R1600	37 28 13	88 8 27	.1	7	.3	.5	<.2	.5	<.5	N	N	200
I39R1615	37 28 13	88 8 27	.15	5	.15	<.2	<.2	.3	N	N	N	100
I39R1630	37 28 13	88 8 27	.07	2	.3	<.2	<.2	.3	N	N	N	100
I39R1655	37 28 13	88 8 27	.2	3	.2	<.2	<.2	.3	N	N	N	100
I39R1670	37 28 13	88 8 27	.07	3	.3	.2	<.2	.5	N	N	N	100
I39R1685	37 28 13	88 8 27	.05	2	.3	<.2	<.2	.2	N	N	N	100
I39R1700	37 28 13	88 8 27	.07	3	.2	<.2	<.2	.3	N	N	N	100
I39R1720	37 28 13	88 8 27	.07	2	.2	<.2	<.2	.2	<.5	N	N	100
I39R1735	37 28 13	88 8 27	.2	.5	.1	N	<.2	.2	N	N	N	70
I39R1765	37 28 13	88 8 27	.2	1	.1	N	<.2	.1	N	N	N	100
I39R1775	37 28 13	88 8 27	.2	.07	.03	N	<.2	.02	N	N	N	50
I39R1785	37 28 13	88 8 27	.1	.5	.05	N	<.2	.07	N	N	N	50
I39R1795	37 28 13	88 8 27	.05	.3	.07	N	<.2	.1	<.5	N	N	100
I39R1810	37 28 13	88 8 27	.1	1	.2	N	<.2	.3	<.5	N	N	100
I39R1825	37 28 13	88 8 27	.05	.5	.1	N	<.2	.1	<.5	N	N	100
I39R1835	37 28 13	88 8 27	.05	.7	.1	N	<.2	.15	<.5	N	N	100
I39R1855	37 28 13	88 8 27	.05	1	.05	N	<.2	.07	<.5	N	N	70
I39R1875	37 28 13	88 8 27	.05	1	.15	N	<.2	.2	<.5	N	N	100
I39R1890	37 28 13	88 8 27	.05	1	.07	N	<.2	.1	<.5	N	N	70
I39R1905	37 28 13	88 8 27	.07	5	.1	N	<.2	.15	<.5	N	N	100
I39R1920	37 28 13	88 8 27	.1	10	.07	N	<.2	.2	1	N	N	150
I39R1940	37 28 13	88 8 27	.15	5	.1	N	<.2	.2	1	N	N	100
I39R1960	37 28 13	88 8 27	.07	7	.05	N	<.2	.15	.7	N	N	100
I39R1985	37 28 13	88 8 27	>20	1.5	1.5	N	<.2	.015	N	N	N	10
I39R2010	37 28 13	88 8 27	.2	7	.07	N	<.2	.1	.7	N	N	50
I39R2025	37 28 13	88 8 27	.1	.5	.05	N	<.2	.05	<.5	N	N	100
I39R2035	37 28 13	88 8 27	.07	.5	.1	N	<.2	.15	<.5	N	N	70
I39R2050	37 28 13	88 8 27	.05	.3	.1	N	<.2	.1	<.5	N	N	50

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R1070	500	1.5	N	N	10	70	50	10	N	N	30	<5	N
I39R1090	100	<1	N	N	N	10	5	<5	N	N	<10	<5	N
I39R1100	50	1	N	N	N	15	5	<5	N	N	50	<5	N
I39R1115	20	<1	N	N	N	10	5	<5	N	N	30	<5	N
I39R1125	50	<1	N	N	N	10	<5	<5	N	N	10	10	N
I39R1140	150	1	N	N	10	50	30	<5	N	N	30	10	N
I39R1160	500	2	N	50	10	300	50	10	N	<50	150	70	<20
I39R1170	500	2	N	50	N	500	100	10	N	N	150	100	<20
I39R1180	200	<1	N	N	N	20	<5	<5	N	N	10	5	N
I39R1190	70	<1	N	N	N	20	<5	<5	N	N	10	15	N
I39R1200	100	1	N	N	N	70	20	<5	N	N	20	20	N
I39R1220	70	<1	N	N	N	50	<5	<5	N	N	10	20	N
I39R1240	100	<1	N	N	N	50	5	<5	N	N	10	<5	N
I39R1260	200	<1	N	N	N	50	7	<5	N	N	10	10	N
I39R1280	100	<1	N	N	N	50	20	<5	N	N	10	20	N
I39R1305	300	1.5	N	N	N	100	50	7	N	N	100	15	<20
I39R1320	200	1	N	N	N	100	50	5	N	N	100	20	<20
I39R1340	300	1.5	N	N	N	100	50	10	N	N	150	30	<20
I39R1355	700	2	N	N	10	100	100	15	N	N	200	30	<20
I39R1380	200	<1	N	N	N	70	30	5	N	N	70	20	N
I39R1400	300	1	N	N	10	150	50	10	N	N	100	50	N
I39R1420	200	1	N	N	<10	100	30	7	N	N	100	20	N
I39R1440	200	<1	N	N	<10	70	20	7	N	N	70	20	N
I39R1460	100	N	N	N	N	50	7	<5	N	N	15	7	N
I39R1475	150	N	N	N	<10	50	15	5	N	N	20	10	N
I39R1495	70	N	N	N	<10	30	10	5	N	N	15	5	N
I39R1515	5,000	<1	N	N	<10	20	5	5	N	N	100	<5	N
I39R1525	2,000	<1	N	N	<10	20	7	5	N	N	70	<5	N
I39R1535	2,000	1	N	N	<10	70	30	10	N	N	150	10	N
I39R1555	3,000	<1	N	N	<10	50	20	7	N	N	70	15	N
I39R1565	>5,000	1	N	N	<10	70	30	7	N	N	100	20	N
I39R1580	500	1	N	N	<10	70	50	10	N	N	70	5	N
I39R1600	700	1	N	N	15	70	100	15	N	N	150	<5	N
I39R1615	700	1	N	N	<10	70	30	10	N	N	100	5	N
I39R1630	300	1	N	N	N	50	15	7	N	N	50	<5	N
I39R1655	200	<1	N	N	N	70	30	10	N	N	50	5	N
I39R1670	300	1	N	N	N	50	20	15	N	N	100	5	N
I39R1685	200	<1	N	N	N	50	30	7	N	N	50	<5	N
I39R1700	200	<1	N	N	N	50	50	10	N	N	50	<5	N
I39R1720	150	<1	N	N	<10	30	15	7	N	N	50	<5	N
I39R1735	200	<1	N	N	<10	20	5	5	N	N	50	<5	N
I39R1765	200	<1	N	N	<10	20	7	5	N	N	50	10	N
I39R1775	20	<1	N	N	<10	15	<5	<5	N	N	<10	<5	N
I39R1785	50	<1	N	N	<10	15	<5	5	N	N	20	<5	N
I39R1795	70	<1	N	N	<10	20	10	7	N	N	20	<5	N
I39R1810	200	1	N	N	<10	30	7	7	N	N	50	<5	N
I39R1825	100	<1	N	N	<10	15	5	5	N	N	30	<5	N
I39R1835	150	<1	N	N	<10	15	5	7	N	N	30	<5	N
I39R1855	100	<1	N	N	<10	15	5	7	N	N	20	<5	N
I39R1875	150	<1	N	N	<10	20	10	7	N	N	50	<5	N
I39R1890	100	<1	N	N	<10	10	7	7	N	N	50	5	N
I39R1905	200	<1	N	N	<10	20	10	10	N	N	70	15	N
I39R1920	200	1	N	N	10	70	70	10	N	<50	150	10	N
I39R1940	200	1	N	N	N	30	15	7	N	<50	100	7	N
I39R1960	200	1	N	N	N	20	15	10	N	N	100	5	N
I39R1985	N	<1	N	N	N	20	10	<5	N	N	100	<5	N
I39R2010	70	<1	N	N	N	20	20	10	N	N	100	5	N
I39R2025	1,000	<1	N	N	N	20	5	5	N	N	15	<5	N
I39R2035	50	<1	N	N	N	20	7	5	N	N	20	<5	N
I39R2050	50	<1	N	N	N	20	5	5	N	N	20	<5	N

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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 #
I39R1070	100	20	N	7	N	>5,000	N	200	N	<10	200	1,000	.15	6
I39R1090	5	<10	N	N	N	700	N	15	N	<10	<200	N	.15	6
I39R1100	5	<10	N	N	N	100	N	20	N	<10	N	N	.13	6
I39R1115	5	30	N	N	N	<100	N	15	N	<10	N	N	.13	6
I39R1125	5	<10	N	N	N	100	N	10	N	<10	200	N	.03	6
I39R1140	50	<10	N	<5	N	300	N	50	N	<10	500	100	.57	6
I39R1160	150	50	N	10	30	5,000	N	700	N	10	1,000	150	.24	6
I39R1170	150	70	N	10	10	>5,000	N	500	N	10	1,000	200	.16	6
I39R1180	5	<10	N	N	N	1,500	N	10	N	<10	<200	N	.03	6
I39R1190	5	<10	N	N	N	300	N	10	N	<10	<200	N	.06	6
I39R1200	30	<10	N	5	N	1,000	N	100	N	<10	<200	N	.03	6
I39R1220	10	<10	N	N	N	<100	N	50	N	<10	200	150	.01	6
I39R1240	10	<10	N	N	N	<100	N	70	N	<10	<200	20	.01	6
I39R1260	15	<10	N	N	N	<100	N	70	N	<10	<200	50	.01	6
I39R1280	15	50	N	N	N	<100	N	50	N	<10	<200	100	.01	6
I39R1305	70	<10	N	7	N	1,000	N	200	N	10	N	150	.12	7
I39R1320	50	<10	N	7	N	200	N	200	N	<10	200	150	.07	7
I39R1340	50	15	N	10	N	150	N	200	N	N	<200	200	.11	7
I39R1355	100	15	N	10	N	100	N	300	N	N	<200	200	.17	7
I39R1380	50	10	N	5	N	100	N	150	N	N	N	150	.05	7
I39R1400	100	20	N	10	N	<100	N	200	<20	N	200	150	.14	7
I39R1420	50	15	N	7	N	<100	N	150	<20	N	<200	100	.08	7
I39R1440	50	<10	N	5	N	<100	N	100	<20	N	<200	100	.06	7
I39R1460	15	<10	N	<5	N	<100	N	50	20	N	<200	30	.02	7
I39R1475	20	<10	N	5	N	<100	N	70	<20	N	<200	50	.03	7
I39R1495	15	<10	N	N	N	<100	N	50	<20	N	<200	30	.03	7
I39R1515	<5	20	N	<5	N	200	N	20	<20	N	<200	200	<.01	7
I39R1525	5	10	N	<5	N	100	N	20	<20	N	<200	200	.01	7
I39R1535	50	15	N	10	N	100	N	150	<20	<10	<200	100	.14	7
I39R1555	30	15	N	5	N	150	N	70	<20	N	<200	200	.05	7
I39R1565	30	<10	N	7	N	200	N	100	<20	N	1,000	150	.07	7
I39R1580	20	10	N	7	N	<100	N	100	<20	N	200	200	.06	7
I39R1600	100	20	N	10	N	100	N	100	<20	N	<200	200	.14	7
I39R1615	50	15	N	7	N	100	N	100	<20	N	200	150	.07	7
I39R1630	20	10	N	7	N	<100	N	70	<20	N	<200	100	.09	7
I39R1655	20	20	N	5	N	<100	N	100	<20	N	200	100	.07	7
I39R1670	20	20	N	7	N	<100	N	100	<20	N	<200	100	.13	7
I39R1685	20	15	N	5	N	<100	N	100	<20	N	<200	100	.09	7
I39R1700	20	10	N	5	N	<100	N	100	<20	N	<200	100	.07	7
I39R1720	30	10	N	5	N	100	N	100	<20	N	<200	50	.05	7
I39R1735	20	<10	N	5	N	100	N	70	<20	N	<200	50	.05	7
I39R1765	15	<10	N	N	N	<100	N	50	<20	N	<200	50	.04	7
I39R1775	5	<10	N	N	N	<100	N	10	20	N	<200	30	.01	7
I39R1785	7	<10	N	N	N	<100	N	20	20	N	<200	50	.01	7
I39R1795	15	<10	N	<5	N	<100	N	50	<20	N	<200	50	.03	7
I39R1810	20	<10	N	5	N	<100	N	100	<20	N	<200	100	.07	7
I39R1825	15	15	N	<5	N	100	N	50	<20	N	<200	50	.03	7
I39R1835	20	<10	N	<5	N	<100	N	50	<20	N	<200	50	.04	7
I39R1855	10	<10	N	N	N	<100	N	20	<20	N	<200	50	.02	7
I39R1875	20	<10	N	<5	N	<100	N	50	<20	N	<200	100	.05	7
I39R1890	15	<10	N	<5	N	<100	N	20	<20	N	<200	50	.03	7
I39R1905	20	50	N	5	N	<100	N	100	<20	<10	<200	100	.02	7
I39R1920	50	<10	N	5	N	<100	N	100	<20	<10	200	200	--	7
I39R1940	20	<10	N	<5	N	<100	N	100	<20	<10	<200	100	.24	7
I39R1960	20	15	N	<5	N	<100	N	100	<20	<10	200	70	.04	7
I39R1985	7	100	N	N	30	500	N	20	<20	15	<200	<10	.14	7
I39R2010	20	20	N	<5	N	<100	N	50	<20	N	200	70	.03	7
I39R2025	10	<10	N	N	N	>5,000	N	15	<20	N	<200	50	.01	7
I39R2035	15	<10	N	N	N	300	N	20	<20	N	<200	30	.02	7
I39R2050	7	<10	N	N	N	<100	N	15	<20	N	<200	30	.02	7

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R2065	37 28 13	88 8 27	.15	2	.3	<.2	<.2	.3	N	N	N	150
I39R2085	37 28 13	88 8 27	.15	1	.2	<.2	<.2	.2	N	N	N	100
I39R2105	37 28 13	88 8 27	.15	5	.3	<.2	<.2	.3	N	N	N	150
I39R2120	37 28 13	88 8 27	.1	3	.5	<.2	<.2	.3	N	N	N	150
I39R2140	37 28 13	88 8 27	.15	3	.5	<.2	<.2	.5	N	N	N	200
I39R2160	37 28 13	88 8 27	.15	1.5	.2	<.2	<.2	.3	N	N	N	150
I39R2175	37 28 13	88 8 27	.15	1	.3	<.2	<.2	.3	N	N	N	100
I39R2190	37 28 13	88 8 27	.1	1	.15	<.2	<.2	.2	N	N	N	100
I39R2205	37 28 13	88 8 27	<.05	1.5	.2	.2	<.2	.2	N	N	N	150
I39R2220	37 28 13	88 8 27	<.05	1.5	.2	.2	<.2	.2	N	N	N	100
I39R2240	37 28 13	88 8 27	<.05	1.5	.2	.2	<.2	.2	N	N	N	100
I39R2260	37 28 13	88 8 27	<.05	1.5	.3	.2	<.2	.5	<.5	N	N	150
I39R2280	37 28 13	88 8 27	<.05	2	.3	.3	<.2	.5	<.5	N	N	200
I39R2295	37 28 13	88 8 27	<.05	5	.5	.3	<.2	.7	3	N	N	500
I39R2310	37 28 13	88 8 27	<.05	5	.5	.3	<.2	.7	.7	N	N	300
I39R2345	37 28 13	88 8 27	<.05	5	.5	.3	<.2	.7	.5	N	N	300
I39R2365	37 28 13	88 8 27	<.05	7	.5	.5	<.2	.5	<.5	N	N	300
I39R2385	37 28 13	88 8 27	<.05	5	.5	.5	<.2	.7	<.5	N	N	200
I39R2405	37 28 13	88 8 27	<.05	7	.5	.5	<.2	.7	<.5	N	N	200
I39R2425	37 28 13	88 8 27	<.05	7	.5	.5	<.2	.7	<.5	N	N	200
I39R2455	37 28 13	88 8 27	<.05	7	.7	.5	<.2	1	N	N	N	300
I39R2475	37 28 13	88 8 27	<.05	5	.7	.5	<.2	1	N	N	N	300
I39R2495	37 28 13	88 8 27	<.05	5	.7	.5	<.2	1	N	N	N	300
I39R2515	37 28 13	88 8 27	<.05	5	.7	.5	<.2	1	N	N	N	300
I39R2535	37 28 13	88 8 27	<.05	3	.7	.5	<.2	1	.5	N	N	300
I39R2560	37 28 13	88 8 27	<.05	7	.7	.5	<.2	1	.5	N	N	200
I39R2580	37 28 13	88 8 27	<.05	5	.7	.5	<.2	.7	.5	N	N	200
I39R2600	37 28 13	88 8 27	<.05	5	.7	.5	<.2	.7	<.5	N	N	300
I39R2620	37 28 13	88 8 27	.05	5	.7	.5	<.2	.5	.5	N	N	300
I39R2640	37 28 13	88 8 27	.1	5	.7	.5	<.2	.7	.5	N	N	300
I39R2660	37 28 13	88 8 27	.15	5	.7	.5	<.2	.5	1	N	N	200
I39R2680	37 28 13	88 8 27	.1	5	.7	.5	<.2	.5	1.5	N	N	200
I39R2700	37 28 13	88 8 27	<.05	5	.7	.5	<.2	.5	1	N	N	200
I39R2720	37 28 13	88 8 27	<.05	5	.7	.5	<.2	.5	.5	N	N	200
I39R2755	37 28 13	88 8 27	<.05	5	.7	.5	<.2	.7	N	N	N	200
I39R2770	37 28 13	88 8 27	.1	5	.7	<.2	<.2	.3	N	N	N	150
I39R2785	37 28 13	88 8 27	.1	.2	.07	<.2	<.2	.05	N	N	N	50
I39R2800	37 28 13	88 8 27	.1	.2	.1	<.2	<.2	.05	N	N	N	70
I39R2815	37 28 13	88 8 27	.15	.2	.15	<.2	<.2	.1	N	N	N	100
I39R2830	37 28 13	88 8 27	.15	1	.3	<.2	<.2	.3	N	N	N	100
I39R2840	37 28 13	88 8 27	.1	3	.3	<.2	<.2	.3	N	N	N	150
I39R2855	37 28 13	88 8 27	.15	1	.2	<.2	<.2	.2	N	N	N	100
I39R2870	37 28 13	88 8 27	.15	.2	.1	<.2	<.2	.03	N	N	N	20
I39R2885	37 28 13	88 8 27	.05	.07	.03	<.2	<.2	.015	N	N	N	15
I39R2895	37 28 13	88 8 27	.2	.2	.1	<.2	<.2	.02	N	N	N	30
I39R2905	37 28 13	88 8 27	.15	.1	.1	<.2	<.2	.015	N	N	N	20
I39R2920	37 28 13	88 8 27	.15	.7	.2	<.2	<.2	.05	N	N	N	70
I39R2935	37 28 13	88 8 27	.1	.5	.2	<.2	<.2	.07	N	N	N	100
I39R2950	37 28 13	88 8 27	.05	1	.5	.3	<.2	.5	N	N	N	200
I39R2965	37 28 13	88 8 27	<.05	3	.7	.3	<.2	.5	N	N	N	200
I39R2980	37 28 13	88 8 27	.2	.5	.3	<.2	<.2	.1	<.5	N	N	50
I39R3000	37 28 13	88 8 27	.05	1.5	.5	.5	<.2	.5	<.5	N	N	150

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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
I39R2065	150	<1	N	N	N	50	20	5	N	N	50	<5	N
I39R2085	150	<1	N	N	N	20	15	7	N	N	30	<5	N
I39R2105	150	<1	N	N	<10	50	50	10	N	N	50	<5	N
I39R2120	200	1	N	N	<10	50	20	5	N	N	50	<5	N
I39R2140	200	1	N	N	<10	50	30	7	N	N	100	<5	N
I39R2160	150	1	N	N	N	50	15	5	N	N	30	<5	N
I39R2175	200	<1	N	N	N	50	50	<5	N	N	30	<5	N
I39R2190	150	<1	N	N	N	30	7	5	N	N	20	<5	N
I39R2205	200	<1	N	N	N	50	20	7	N	N	30	<5	N
I39R2220	200	<1	N	N	N	70	15	7	N	N	30	<5	N
I39R2240	300	<1	N	N	N	50	20	7	N	N	30	<5	N
I39R2260	500	1	N	N	<10	70	50	15	N	N	30	<5	N
I39R2280	500	1	N	N	<10	70	50	10	N	N	30	<5	<20
I39R2295	700	1.5	N	20	20	150	150	20	N	50	100	70	<20
I39R2310	700	1	N	20	20	100	150	15	N	50	70	100	<20
I39R2345	700	1.5	N	N	30	100	150	10	N	50	100	100	N
I39R2365	500	1.5	N	N	30	100	150	20	N	50	100	100	<20
I39R2385	500	1.5	N	N	30	100	150	30	N	50	100	70	<20
I39R2405	500	1.5	N	N	30	70	150	30	N	50	100	70	N
I39R2425	500	1.5	N	N	30	100	150	50	N	50	100	70	<20
I39R2455	700	1.5	N	N	30	100	100	50	N	70	100	100	<20
I39R2475	700	2	N	N	30	100	150	50	N	70	100	30	<20
I39R2495	700	2	N	N	30	100	100	50	N	70	100	20	<20
I39R2515	700	2	N	N	30	100	150	50	N	50	100	15	<20
I39R2535	500	2	N	N	20	100	150	50	N	50	100	50	<20
I39R2560	500	1.5	N	N	20	100	200	50	N	70	100	150	<20
I39R2580	300	2	N	N	30	100	150	20	N	50	70	70	<20
I39R2600	500	2	N	N	20	100	150	30	N	50	100	50	<20
I39R2620	500	1.5	N	N	30	100	150	50	N	50	100	50	<20
I39R2640	500	1.5	N	N	30	100	200	30	N	50	100	70	<20
I39R2660	300	2	N	N	30	100	200	30	N	50	100	50	<20
I39R2680	300	2	N	N	20	100	300	20	N	50	70	70	<20
I39R2700	300	1.5	N	N	20	100	700	20	N	50	70	30	<20
I39R2720	300	1.5	N	N	20	100	500	50	N	50	100	20	<20
I39R2755	300	1.5	N	N	20	70	100	30	N	50	150	10	<20
I39R2770	300	1	N	N	20	50	50	5	N	<50	70	7	<20
I39R2785	50	<1	N	N	N	<10	10	5	N	<50	10	<5	N
I39R2800	70	<1	N	N	N	<10	<5	<5	N	<50	10	<5	N
I39R2815	100	<1	N	N	<10	<10	5	<5	N	<50	10	<5	N
I39R2830	200	<1	N	N	10	50	15	5	N	N	50	<5	N
I39R2840	200	1	N	N	15	50	70	10	N	N	70	15	N
I39R2855	100	<1	N	N	<10	20	20	5	N	N	50	5	N
I39R2870	20	N	N	N	N	10	5	<5	N	N	<10	5	N
I39R2885	N	N	N	N	N	10	5	<5	N	N	<10	<5	N
I39R2895	N	N	N	N	N	10	<5	<5	N	N	<10	<5	N
I39R2905	N	N	N	N	N	10	7	<5	N	N	<10	<5	N
I39R2920	20	N	N	N	N	10	5	<5	N	N	10	<5	N
I39R2935	50	<1	N	N	N	10	7	5	N	N	15	<5	N
I39R2950	300	1	N	N	10	50	50	7	N	<50	50	7	N
I39R2965	500	2	N	N	20	100	150	20	N	50	70	50	<20
I39R2980	50	<1	N	N	<10	10	7	5	N	N	15	<5	N
I39R3000	500	1.5	N	N	10	50	100	20	N	<50	20	30	<20

TABLE 12--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I39, 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 #
I39R2065	15	<10	N	<5	N	<100	N	50	<20	N	<200	100	.03	7
I39R2085	15	<10	N	5	N	<100	N	50	<20	N	<200	70	.02	7
I39R2105	20	10	N	5	N	<100	N	100	<20	N	<200	200	.02	7
I39R2120	30	<10	N	5	N	<100	N	100	<20	N	<200	100	.05	7
I39R2140	50	<10	N	7	N	<100	N	100	<20	N	<200	150	.05	7
I39R2160	20	<10	N	<5	N	<100	N	70	<20	N	<200	100	.04	7
I39R2175	20	<10	N	<5	N	<100	N	70	<20	N	<200	100	.03	7
I39R2190	20	<10	N	<5	N	<100	N	70	<20	N	<200	50	.02	7
I39R2205	20	<10	N	5	N	<100	N	100	<20	N	<200	100	.02	7
I39R2220	30	<10	N	5	N	<100	N	100	<20	N	<200	100	.03	7
I39R2240	30	<10	N	7	N	<100	N	70	<20	N	<200	70	.03	7
I39R2260	30	70	N	10	30	<100	N	100	<20	10	<200	100	.03	7
I39R2280	30	150	100	10	100	<100	N	100	<20	10	<200	100	.03	7
I39R2295	150	50	100	15	10	100	N	1,500	<20	20	700	150	.04	11
I39R2310	100	70	100	15	<10	100	N	2,000	<20	30	700	150	.04	11
I39R2345	100	20	N	15	N	100	N	500	<20	30	200	150	.03	11
I39R2365	70	20	N	10	N	100	N	200	<20	20	200	150	.03	11
I39R2385	100	30	N	15	N	100	N	200	<20	30	200	150	.04	11
I39R2405	100	20	N	15	N	100	N	200	<20	30	200	150	.02	11
I39R2425	100	70	N	15	N	100	N	200	<20	30	700	150	.04	11
I39R2455	100	30	N	30	N	150	N	300	<20	30	300	150	.03	11
I39R2475	100	50	N	30	N	150	N	200	<20	30	<200	150	.03	11
I39R2495	70	50	N	30	N	150	N	300	<20	30	<200	200	.04	11
I39R2515	70	30	<100	30	N	150	N	200	<20	30	<200	150	.04	11
I39R2535	70	150	<100	30	N	150	N	200	<20	30	<200	150	.05	11
I39R2560	150	100	<100	20	150	100	N	700	<20	30	200	150	.05	11
I39R2580	100	20	<100	15	N	100	N	500	<20	30	300	150	.04	11
I39R2600	100	30	<100	15	N	150	N	300	<20	30	300	150	.05	11
I39R2620	100	50	<100	15	N	100	N	200	<20	30	300	150	.06	11
I39R2640	150	100	<100	15	N	100	N	300	<20	30	<200	150	.06	11
I39R2660	200	30	<100	15	N	<100	N	500	<20	30	200	150	.08	11
I39R2680	150	20	N	15	N	<100	N	700	<20	30	200	150	.08	11
I39R2700	150	20	N	10	N	<100	N	700	<20	10	300	150	.08	11
I39R2720	100	50	N	10	N	<100	N	300	<20	20	200	150	.09	11
I39R2755	50	30	N	10	N	<100	N	200	<20	20	200	150	.09	11
I39R2770	30	<10	N	7	N	<100	N	100	<20	15	N	150	.04	11
I39R2785	10	N	N	N	N	<100	N	30	<20	<10	N	30	.01	11
I39R2800	10	N	N	N	N	<100	N	50	<20	N	N	50	.01	11
I39R2815	10	N	N	N	N	<100	N	50	<20	N	N	30	.02	11
I39R2830	15	100	N	7	30	<100	N	100	<20	10	N	100	.05	11
I39R2840	30	20	N	7	N	N	N	100	<20	N	N	100	.04	11
I39R2855	15	10	N	5	N	N	N	70	<20	N	N	50	.05	11
I39R2870	7	<10	N	N	N	N	N	20	<20	N	N	10	.01	11
I39R2885	<5	<10	N	N	N	N	N	20	<20	N	N	<10	.03	11
I39R2895	5	<10	N	N	N	N	N	15	<20	N	N	<10	.02	11
I39R2905	5	<10	N	N	N	N	N	15	<20	N	N	<10	.02	11
I39R2920	7	<10	N	N	N	N	N	30	<20	N	N	30	.03	11
I39R2935	7	<10	N	N	N	N	N	50	<20	N	<200	50	.05	11
I39R2950	20	20	N	10	N	100	N	150	<20	15	200	100	.04	11
I39R2965	100	30	N	15	N	100	N	200	<20	20	200	150	.04	11
I39R2980	7	10	N	<5	N	<100	N	30	<20	N	<200	50	.04	11
I39R3000	50	20	N	10	N	100	N	200	<20	15	<200	100	.04	11

TABLE 13--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I40, 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
I40R0279	37 25 47	88 20 53	.1	.15	.15	<.2	<.2	.5	N	N	N	150
I40R0290	37 25 47	88 20 53	.15	3	1	<.2	<.2	.5	N	N	N	300
I40R0301	37 25 47	88 20 53	.2	2	1	<.2	<.2	.5	N	N	N	300
I40R0316	37 25 47	88 20 53	.1	.5	.3	<.2	<.2	.5	N	N	N	50
I40R0330	37 25 47	88 20 53	.15	3	.7	<.2	<.2	.7	N	N	N	200
I40R0342	37 25 47	88 20 53	.1	5	1	<.2	<.2	.7	N	N	N	300
I40R0355	37 25 47	88 20 53	1	5	1.5	<.2	<.2	.5	N	N	N	300
I40R0368	37 25 47	88 20 53	2	2	1	<.2	<.2	.7	N	N	N	300
I40R0388	37 25 47	88 20 53	.15	.5	.3	<.2	<.2	.5	N	N	N	100
I40R0401	37 25 47	88 20 53	.1	.3	.2	<.2	<.2	.3	N	N	N	70

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I40R0279	50	2	N	N	<10	100	30	5	N	<50	<10	<5	30
I40R0290	150	3	N	N	10	150	<5	50	N	<50	50	<5	N
I40R0301	150	2	N	N	20	100	70	10	N	N	30	7	N
I40R0316	70	<1	N	N	<10	70	20	5	N	<50	<10	<5	N
I40R0330	150	5	N	N	5	20	5	15	N	<50	20	<5	<20
I40R0342	150	3	N	N	30	30	7	50	N	50	20	<5	<20
I40R0355	100	5	N	N	20	20	150	15	N	50	50	20	N
I40R0368	150	5	N	N	20	50	30	20	N	N	50	7	N
I40R0388	50	1	N	N	N	<10	15	<5	N	N	<10	<5	N
I40R0401	50	1	N	N	<10	<10	<5	<5	N	<50	<10	<5	20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I40R0279	7	<10	N	5	N	N	N	50	<20	20	N	>1,000	.04	5
I40R0290	70	<10	N	10	N	<100	N	100	<20	<10	N	100	.15	5
I40R0301	100	<10	N	10	N	N	N	100	<20	N	N	100	.12	5
I40R0316	15	<10	N	N	N	N	N	50	<20	N	N	>1,000	.06	5
I40R0330	20	<10	N	10	N	N	N	150	<20	N	N	150	.17	5
I40R0342	100	<10	N	15	N	N	N	200	<20	15	N	150	.2	5
I40R0355	70	<10	N	10	N	N	N	150	<20	10	N	100	.25	5
I40R0368	50	<10	N	15	N	100	N	100	<20	<10	N	300	.2	5
I40R0388	15	<10	N	<5	N	N	N	50	<20	<10	N	300	.08	6
I40R0401	5	<10	N	N	N	<100	N	20	<20	<10	N	500	.04	6

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I41, 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
I41R0175	37 20 15	88 41 0	.05	5	.5	<.2	<.2	.5
I41R0195	37 20 15	88 41 0	<.05	5	.5	<.2	<.2	.7
I41R0210	37 20 15	88 41 0	.05	3	.5	<.2	<.2	.7
I41R0220	37 20 15	88 41 0	.05	3	.5	<.2	<.2	.5
I41R0230	37 20 15	88 41 0	<.05	.15	.1	<.2	<.2	.2
I41R0240	37 20 15	88 41 0	<.05	.1	.07	<.2	<.2	.3
I41R0250	37 20 15	88 41 0	<.05	.2	.07	<.2	<.2	.2
I41R0260	37 20 15	88 41 0	<.05	1	.15	.3	<.2	.5
I41R0272	37 20 15	88 41 0	<.05	.5	.2	.2	<.2	.7
I41R0286	37 20 15	88 41 0	<.05	3	.5	.2	<.2	.7
I41R0300	37 20 15	88 41 0	<.05	.1	.05	.2	<.2	.3
I41R0310	37 20 15	88 41 0	<.05	.2	.1	.2	<.2	.3
I41R0320	37 20 15	88 41 0	<.05	.2	.1	<.2	<.2	.5
I41R0330	37 20 15	88 41 0	<.05	.2	.07	<.2	<.2	.3
I41R0340	37 20 15	88 41 0	<.05	.2	.07	<.2	<.2	.2
I41R0350	37 20 15	88 41 0	<.05	1	.5	.2	<.2	.5
I41R0360	37 20 15	88 41 0	.05	1	.3	.2	<.2	.5
I41R0370	37 20 15	88 41 0	<.05	1	.3	.2	<.2	.7
I41R0380	37 20 15	88 41 0	.05	1	.5	.3	<.2	.7
I41R0390	37 20 15	88 41 0	<.05	1.5	.5	<.2	<.2	.5
I41R0400	37 20 15	88 41 0	<.05	1	.2	.2	<.2	.7
I41R0410	37 20 15	88 41 0	<.05	1.5	.3	.2	<.2	.7
I41R0420	37 20 15	88 41 0	.05	5	.7	.2	<.2	1
I41R0435	37 20 15	88 41 0	<.05	3	.5	.2	<.2	.7
I41R0450	37 20 15	88 41 0	.05	.5	.2	.3	<.2	.5
I41R0460	37 20 15	88 41 0	.05	.15	.15	.3	<.2	.5
I41R0470	37 20 15	88 41 0	<.05	2	.5	.2	<.2	.7
I41R0480	37 20 15	88 41 0	<.05	.3	.3	.2	<.2	.5
I41R0495	37 20 15	88 41 0	.05	2	.5	.2	<.2	1
I41R0505	37 20 15	88 41 0	.05	.05	.07	.3	<.2	.2
I41R0515	37 20 15	88 41 0	<.05	.05	.07	.3	<.2	.2
I41R0532	37 20 15	88 41 0	<.05	.5	.1	.2	<.2	.2
I41R0545	37 20 15	88 41 0	<.05	2	.3	.3	<.2	.5
I41R0565	37 20 15	88 41 0	.05	.5	.2	.3	<.2	.5
I41R0580	37 20 15	88 41 0	<.05	.5	.2	<.2	<.2	.3
I41R0595	37 20 15	88 41 0	.05	2	.3	.2	<.2	.5
I41R0630	37 20 15	88 41 0	.1	1.5	.3	.3	<.2	.3
I41R0655	37 20 15	88 41 0	.1	3	.5	.3	<.2	.5
I41R0685	37 20 15	88 41 0	.1	5	1	.2	<.2	.7
I41R0730	37 20 15	88 41 0	.15	5	1.5	.2	<.2	.5
I41R0775	37 20 15	88 41 0	.15	7	1	.2	<.2	.7
I41R0795	37 20 15	88 41 0	.1	3	.7	.2	<.2	.7
I41R0816	37 20 15	88 41 0	.1	5	1.5	.3	<.2	.7
I41R0875	37 20 15	88 41 0	.15	5	1.5	.2	<.2	1
I41R0925	37 20 15	88 41 0	.1	7	1.5	.2	<.2	1
I41R1034	37 20 15	88 41 0	5	3	.7	<.2	<.2	.5
I41R1072	37 20 15	88 41 0	3	.3	.3	<.2	<.2	.2
I41R1195	37 20 15	88 41 0	15	.2	.1	<.2	<.2	.15
I41R1280	37 20 15	88 41 0	.2	.15	.07	<.2	<.2	.15
I41R1364	37 20 15	88 41 0	.15	.1	.07	<.2	<.2	.05
I41R1415	37 20 15	88 41 0	.3	.3	.07	<.2	<.2	.1
I41R1465	37 20 15	88 41 0	15	1	1.5	<.2	<.2	.1
I41R1518	37 20 15	88 41 0	2	2	1	<.2	<.2	.2
I41R1569	37 20 15	88 41 0	2	3	1	<.2	<.2	.5
I41R1635	37 20 15	88 41 0	7	5	1	<.2	<.2	.5
I41R1700	37 20 15	88 41 0	.2	3	.5	<.2	<.2	.3
I41R1800	37 20 15	88 41 0	.2	1.5	.2	<.2	<.2	.2

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I41, 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
I41R0175	N	N	N	200	150	1.5	N	N	15	100	30
I41R0195	N	N	N	300	200	1.5	N	N	20	150	30
I41R0210	N	N	N	200	1,000	1.5	N	N	20	100	50
I41R0220	N	N	N	200	700	1.5	N	N	15	70	50
I41R0230	N	N	N	30	150	<1	N	N	N	50	5
I41R0240	N	N	N	20	100	<1	N	N	N	50	<5
I41R0250	N	N	N	15	300	<1	N	N	N	70	15
I41R0260	N	N	N	100	300	<1	N	N	10	70	50
I41R0272	N	N	N	100	300	1	N	N	10	70	20
I41R0286	N	N	N	150	500	1.5	N	N	15	100	50
I41R0300	N	N	N	50	2,000	<1	N	N	N	100	10
I41R0310	N	N	N	70	500	<1	N	N	N	50	5
I41R0320	N	N	N	20	300	<1	N	N	N	50	50
I41R0330	N	N	N	15	300	<1	N	N	<10	50	70
I41R0340	N	N	N	10	1,500	<1	N	N	<10	30	<5
I41R0350	N	N	N	100	700	<1	N	N	<10	50	50
I41R0360	N	N	N	50	150	<1	N	N	<10	50	20
I41R0370	N	N	N	100	200	1	N	N	<10	70	20
I41R0380	N	N	N	70	300	1	N	N	<10	50	20
I41R0390	N	N	N	100	500	1	N	N	<10	100	70
I41R0400	N	N	N	100	100	<1	N	N	N	100	10
I41R0410	N	N	N	100	200	1	N	N	10	100	30
I41R0420	N	N	N	150	300	1	N	N	15	100	50
I41R0435	N	N	N	150	500	1	N	N	15	100	150
I41R0450	N	N	N	50	2,000	<1	N	N	N	70	10
I41R0460	N	N	N	30	200	<1	N	N	N	70	<5
I41R0470	N	N	N	150	1,500	1.5	N	N	15	100	20
I41R0480	N	N	N	100	1,000	1	N	N	<10	100	15
I41R0495	N	N	N	150	1,000	2	N	N	15	150	30
I41R0505	N	N	N	10	1,000	N	N	N	N	20	<5
I41R0515	N	N	N	10	500	N	N	N	N	15	<5
I41R0532	N	N	N	20	1,000	<1	N	N	N	15	5
I41R0545	N	N	N	150	300	1	N	N	<10	70	15
I41R0565	N	N	N	50	500	1	N	N	<10	50	15
I41R0580	N	N	N	20	500	1	N	N	N	50	10
I41R0595	N	N	N	100	1,000	1.5	N	N	10	70	15
I41R0630	N	N	N	100	2,000	1	N	N	10	100	15
I41R0655	N	N	N	150	1,500	1	N	N	30	100	70
I41R0685	N	N	N	150	2,000	1.5	N	N	20	100	50
I41R0730	N	N	N	200	2,000	1	N	N	20	70	50
I41R0775	N	N	N	150	1,500	1.5	N	N	15	100	150
I41R0795	N	N	N	100	1,000	1	N	N	<10	70	20
I41R0816	N	N	N	100	2,000	1	N	N	15	70	150
I41R0875	N	N	N	150	2,000	1.5	N	N	15	100	100
I41R0925	<.5	N	N	150	1,000	1.5	N	N	15	100	70
I41R1034	N	N	N	100	2,000	1.5	N	100	10	100	150
I41R1072	N	N	N	30	2,000	<1	N	50	<10	30	50
I41R1195	N	N	N	10	500	<1	N	20	<10	10	20
I41R1280	N	N	N	30	300	<1	N	N	<10	10	7
I41R1364	N	N	N	50	150	<1	N	N	<10	20	5
I41R1415	N	N	N	50	700	<1	N	N	<10	30	7
I41R1465	N	N	N	50	200	<1	N	N	<10	10	30
I41R1518	N	N	N	70	700	<1	N	N	<10	20	100
I41R1569	N	N	N	100	500	1	N	N	<10	100	100
I41R1635	N	N	N	100	3,000	1	N	N	<10	100	100
I41R1700	N	N	N	70	2,000	1	N	N	<10	70	70
I41R1800	N	N	N	50	2,000	1	N	N	<10	50	50

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 141, 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
I41R0175	30	N	<50	50	N	N	50	<10	N	10
I41R0195	50	N	50	50	N	N	50	<10	N	20
I41R0210	30	N	50	50	N	N	50	<10	N	15
I41R0220	20	N	<50	70	N	N	50	10	N	10
I41R0230	5	N	N	<10	N	N	5	<10	N	<5
I41R0240	5	N	N	<10	N	N	5	<10	N	<5
I41R0250	<5	N	N	<10	N	N	5	<10	N	N
I41R0260	5	N	N	10	N	N	20	<10	N	<5
I41R0272	10	N	N	10	N	N	20	<10	N	5
I41R0286	20	N	<50	50	N	N	50	<10	N	10
I41R0300	<5	N	N	<10	N	N	5	<10	N	5
I41R0310	7	N	N	<10	N	N	7	<10	N	5
I41R0320	5	N	N	<10	N	N	5	<10	N	<5
I41R0330	5	N	N	<10	N	N	7	<10	N	N
I41R0340	5	N	N	<10	N	N	<5	<10	N	N
I41R0350	7	N	N	<10	N	N	15	<10	N	5
I41R0360	5	N	N	20	N	N	10	<10	N	5
I41R0370	10	N	N	20	N	N	15	<10	N	7
I41R0380	10	N	<50	20	N	N	15	<10	N	5
I41R0390	7	N	<50	20	N	N	15	<10	N	7
I41R0400	5	N	N	10	N	N	10	<10	N	5
I41R0410	7	N	N	20	N	N	30	<10	N	10
I41R0420	15	N	<50	30	N	N	70	<10	N	10
I41R0435	10	N	<50	20	N	N	30	<10	N	10
I41R0450	7	N	N	<10	N	N	10	<10	N	7
I41R0460	5	N	N	10	N	N	7	<10	N	5
I41R0470	10	N	N	30	N	N	30	<10	N	10
I41R0480	7	N	<50	20	N	N	10	<10	N	7
I41R0495	20	N	N	50	N	N	30	<10	N	15
I41R0505	<5	N	50	<10	N	N	<5	<10	N	N
I41R0515	<5	N	N	<10	N	N	<5	<10	N	N
I41R0532	5	N	N	20	N	N	10	<10	N	<5
I41R0545	10	N	N	50	N	N	20	20	N	7
I41R0565	5	N	<50	30	N	N	20	<10	N	5
I41R0580	5	N	<50	30	N	N	15	<10	N	5
I41R0595	15	N	<50	50	N	N	30	100	N	10
I41R0630	10	N	<50	20	N	N	20	300	N	7
I41R0655	20	N	<50	50	N	N	50	200	N	10
I41R0685	20	N	<50	50	N	<20	70	200	N	15
I41R0730	30	N	<50	70	N	N	70	200	N	15
I41R0775	20	N	<50	70	<5	<20	70	30	N	15
I41R0795	10	N	<50	30	<5	N	15	15	N	7
I41R0816	20	N	<50	50	5	N	70	10	N	10
I41R0875	20	N	<50	70	5	<20	70	15	N	15
I41R0925	20	N	<50	70	5	<20	70	<10	N	20
I41R1034	20	<10	N	50	5	N	50	50	N	7
I41R1072	10	N	N	<10	<5	N	10	200	N	N
I41R1195	5	N	N	<10	<5	N	15	20	N	N
I41R1280	<5	N	N	<10	<5	N	5	<10	N	N
I41R1364	<5	N	N	<10	5	N	7	<10	N	N
I41R1415	<5	N	N	<10	5	N	15	<10	N	N
I41R1465	<5	N	N	30	7	N	20	<10	N	N
I41R1518	5	N	N	30	10	N	30	<10	N	<5
I41R1569	10	N	N	50	10	N	100	15	N	5
I41R1635	7	N	N	150	10	N	70	15	N	5
I41R1700	5	N	N	50	10	N	70	<10	N	<5
I41R1800	7	N	N	30	10	N	30	70	N	<5

TABLE 14--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I41, 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 #
I41R0175	N	<100	N	100	N	15	N	100	.04	5
I41R0195	N	<100	N	150	N	20	N	100	.05	5
I41R0210	N	<100	N	150	N	20	N	200	.04	5
I41R0220	N	<100	N	100	N	20	N	200	.04	5
I41R0230	N	<100	N	20	<20	N	N	500	.02	5
I41R0240	N	<100	N	20	<20	N	N	500	.01	5
I41R0250	N	<100	N	15	<20	N	N	300	.01	5
I41R0260	N	<100	N	20	<20	10	N	500	.01	5
I41R0272	N	<100	N	30	<20	10	N	300	.02	5
I41R0286	N	<100	N	70	<20	15	<200	200	.04	5
I41R0300	N	<100	N	15	<20	<10	N	200	.01	5
I41R0310	N	<100	N	20	<20	<10	N	300	.01	5
I41R0320	N	<100	N	20	<20	N	N	500	<.01	5
I41R0330	N	<100	N	15	<20	<10	N	500	.01	5
I41R0340	N	<100	N	15	<20	N	N	500	.01	5
I41R0350	N	<100	N	50	<20	15	N	500	.01	5
I41R0360	N	<100	N	50	<20	15	N	1,000	<.01	5
I41R0370	N	<100	N	50	<20	20	N	700	.01	5
I41R0380	N	100	N	70	<20	20	N	1,000	.01	5
I41R0390	N	<100	N	50	<20	15	N	500	.01	5
I41R0400	N	<100	N	30	<20	10	N	500	.01	5
I41R0410	N	<100	N	70	<20	15	N	300	.02	5
I41R0420	N	<100	N	70	<20	15	N	300	.03	5
I41R0435	N	<100	N	100	<20	10	N	300	.04	5
I41R0450	N	<100	N	50	<20	10	N	500	.02	5
I41R0460	N	<100	N	20	<20	<10	N	500	.01	5
I41R0470	N	<100	N	100	20	15	N	300	.03	5
I41R0480	N	<100	N	50	20	10	N	300	.02	5
I41R0495	N	<100	N	100	30	20	N	200	.05	5
I41R0505	N	<100	N	15	<20	N	N	500	.01	5
I41R0515	N	<100	N	15	<20	N	N	700	<.01	5
I41R0532	N	<100	N	15	<20	N	N	300	.01	5
I41R0545	N	100	N	50	<20	10	N	200	.03	5
I41R0565	N	100	N	50	<20	10	N	500	.02	5
I41R0580	N	100	N	30	<20	N	N	300	.01	5
I41R0595	N	100	N	50	<20	10	N	300	.03	5
I41R0630	N	100	N	50	<20	<10	N	200	.04	5
I41R0655	N	100	N	100	<20	10	N	200	.06	5
I41R0685	N	100	N	100	<20	10	<200	300	.07	5
I41R0730	N	100	N	150	<20	10	<200	200	.1	5
I41R0775	N	100	N	150	<20	15	<200	300	.06	6
I41R0795	N	<100	N	100	<20	<10	<200	300	.04	6
I41R0816	N	<100	N	150	<20	15	<200	500	.04	6
I41R0875	N	<100	N	200	<20	20	<200	500	.08	6
I41R0925	N	300	N	200	<20	15	<200	500	.12	6
I41R1034	N	<100	N	100	<20	<10	>10,000	150	3.2	6
I41R1072	N	500	N	50	<20	N	>10,000	70	2.02	6
I41R1195	N	200	N	20	<20	N	10,000	50	9.78	6
I41R1280	N	300	N	30	20	N	<200	100	.08	6
I41R1364	N	1,500	N	20	<20	N	<200	10	.06	6
I41R1415	N	200	N	20	<20	N	<200	20	.03	6
I41R1465	N	500	N	30	<20	N	N	15	.07	6
I41R1518	N	100	N	50	<20	N	N	150	.19	6
I41R1569	N	300	N	200	<20	N	<200	150	.35	7
I41R1635	N	300	N	200	<20	<10	<200	200	.14	7
I41R1700	N	100	N	200	<20	N	200	200	.08	7
I41R1800	N	700	N	100	<20	N	200	70	.08	7

TABLE 15--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I42, 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
I42R0470	37 9 50	89 18 6	.2	.2	.2	.2	<.2	.2	N	N	N	100
I42R0480	37 9 50	89 18 6	.1	.5	.3	.2	<.2	.3	N	N	N	100
I42R0490	37 9 50	89 18 6	.05	2	.5	.2	<.2	.5	N	N	N	150
I42R0510	37 9 50	89 18 6	.05	3	.7	.3	<.2	.7	.5	N	N	100
I42R0520	37 9 50	89 18 6	.05	2	.7	.5	<.2	.7	N	N	N	100
I42R0530	37 9 50	89 18 6	.07	2	.5	.3	<.2	.7	N	N	N	150
I42R0540	37 9 50	89 18 6	.1	2	.7	.5	<.2	1	N	N	N	100
I42R0550	37 9 50	89 18 6	<.05	3	.7	.5	<.2	.7	N	N	N	100
I42R0560	37 9 50	89 18 6	.05	3	.7	.5	<.2	.5	N	N	N	100
I42R0570	37 9 50	89 18 6	<.05	3	.7	.7	<.2	.5	N	N	N	100
I42R0660	37 9 50	89 18 6	.1	3	.2	.3	<.2	.3	N	N	N	70
I42R0670	37 9 50	89 18 6	.1	2	.7	1	<.2	1	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I42R0470	200	1	N	N	N	50	15	7	N	N	20	<5	N
I42R0480	200	1.5	N	N	N	50	20	15	N	N	30	<5	N
I42R0490	300	2	N	N	10	70	50	10	N	<50	50	<5	N
I42R0510	500	1.5	N	N	15	100	100	50	N	<50	70	<5	N
I42R0520	500	2	N	N	10	100	30	30	N	<50	70	<5	<20
I42R0530	300	1.5	N	N	15	100	20	30	N	<50	50	<5	<20
I42R0540	500	2	N	N	10	100	30	50	N	<50	70	<5	<20
I42R0550	1,000	1	N	N	20	70	200	50	N	50	70	<5	<20
I42R0560	1,000	2	N	N	<10	70	50	30	N	<50	100	<5	<20
I42R0570	1,500	2	N	N	<10	70	10	20	N	50	100	<5	<20
I42R0660	1,000	1	N	N	20	20	50	50	N	N	20	<5	<20
I42R0670	500	1.5	N	N	20	70	50	30	N	70	70	<5	<20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I42R0470	10	<10	N	5	N	<100	N	50	<20	<10	N	100	.03	10
I42R0480	10	<10	N	10	N	<100	N	70	<20	15	N	100	.04	10
I42R0490	15	<10	N	10	N	<100	N	100	<20	10	<200	100	.06	11
I42R0510	20	30	N	15	N	<100	N	100	<20	15	<200	100	.07	11
I42R0520	15	<10	N	15	N	<100	N	70	<20	20	N	150	.09	11
I42R0530	15	<10	N	15	N	100	N	100	<20	15	N	150	.11	11
I42R0540	15	30	N	15	N	<100	N	100	<20	20	N	150	.09	11
I42R0550	20	20	N	15	N	<100	N	100	<20	30	N	100	.08	11
I42R0560	15	20	N	10	N	<100	N	70	<20	15	<200	150	.09	11
I42R0570	15	20	N	10	N	<100	N	70	<20	20	N	150	.08	11
I42R0660	20	<10	N	7	N	<100	N	50	<20	<10	<200	100	.03	11
I42R0670	20	20	N	15	N	100	N	100	<20	30	N	200	.07	11

TABLE 16--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I43, 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
I43R0050	37 30 41	88 11 47	.15	3	.7	<.2	<.2	.7	<.5	N	N	200
I43R0063	37 30 41	88 11 47	.05	7	.7	<.2	<.2	1	N	N	N	200
I43R0076	37 30 41	88 11 47	.1	5	.7	<.2	<.2	.7	N	N	N	300
I43R0093	37 30 41	88 11 47	.15	2	.15	<.2	<.2	.3	N	N	N	50
I43R0107	37 30 41	88 11 47	.15	3	.5	<.2	<.2	.5	N	N	N	100
I43R0109	37 30 41	88 11 47	.07	.07	.07	<.2	<.2	.2	N	N	N	30

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I43R0050	200	2	N	N	10	100	20	50	N	<50	30	<5	<20
I43R0063	200	1	N	N	20	100	100	50	N	<50	15	<5	<20
I43R0076	500	2	N	N	20	150	30	50	N	<50	20	<5	N
I43R0093	500	<1	N	N	10	50	15	5	N	N	<10	<5	N
I43R0107	>5,000	1	N	N	10	50	15	15	N	N	10	<5	N
I43R0109	5,000	<1	N	N	N	20	<5	5	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 #
I43R0050	30	<10	N	10	N	<100	N	100	<20	15	500	150	.12	5
I43R0063	50	<10	N	15	N	100	N	150	<20	20	N	200	.11	5
I43R0076	70	<10	N	15	N	<100	N	150	<20	10	N	150	.19	5
I43R0093	15	<10	N	<5	N	<100	N	30	<20	N	N	1,000	.05	5
I43R0107	20	<10	N	5	N	150	N	70	<20	N	N	200	.13	6
I43R0109	<5	<10	N	N	N	100	N	15	<20	N	N	300	.02	6

TABLE 17--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I44, 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
I44R0150	37 54 36	89 50 29	.15	2	.3	.2	<.2	.3	N	N	N	70
I44R0170	37 54 36	89 50 29	.05	1.5	.5	<.2	<.2	.5	N	N	N	100
I44R0185	37 54 36	89 50 29	<.05	1	.5	<.2	<.2	.5	N	N	N	100
I44R0245	37 54 36	89 50 29	.1	1.5	.5	.2	<.2	.3	N	N	N	70
I44R0255	37 54 36	89 50 29	.07	2	.7	.2	<.2	.5	N	N	N	70
I44R0270	37 54 36	89 50 29	.05	3	1	.2	<.2	.7	N	N	N	100
I44R0295	37 54 36	89 50 29	.07	.2	.15	.2	<.2	.2	N	N	N	50
I44R0305	37 54 36	89 50 29	.1	.5	.2	.2	<.2	.3	N	N	N	70
I44R0340	37 54 36	89 50 29	.15	3	.5	.2	<.2	.7	N	N	N	100
I44R0360	37 54 36	89 50 29	.05	2	.3	.2	<.2	1	N	N	N	100
I44R0375	37 54 36	89 50 29	<.05	1	.5	.2	<.2	1	N	N	N	100
I44R0395	37 54 36	89 50 29	<.05	1.5	.3	.2	<.2	1	N	N	N	100
I44R0405	37 54 36	89 50 29	<.05	1	.15	.2	<.2	.5	N	N	N	50
I44R0420	37 54 36	89 50 29	<.05	.5	.1	.2	<.2	.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
I44R0150	700	1	N	N	10	70	30	10	N	50	200	<5	N
I44R0170	200	1.5	N	N	10	100	20	10	N	50	100	<5	N
I44R0185	200	2	N	N	<10	100	10	15	N	50	70	<5	N
I44R0245	200	2	N	N	<10	70	100	15	N	50	70	<5	N
I44R0255	300	1.5	N	N	15	100	70	50	N	50	70	<5	<20
I44R0270	300	2	N	N	15	100	20	30	N	50	150	<5	<20
I44R0295	700	1	N	N	N	20	20	<5	N	N	30	<5	N
I44R0305	150	1	N	N	N	30	15	7	N	N	50	<5	N
I44R0340	300	1.5	N	N	20	100	30	30	N	50	100	<5	<20
I44R0360	500	1.5	N	N	30	100	50	20	N	70	100	<5	<20
I44R0375	300	1.5	N	N	15	100	50	30	N	70	50	<5	<20
I44R0395	300	1.5	N	N	20	150	30	30	N	70	50	<5	<20
I44R0405	500	1	N	N	15	50	15	7	N	N	30	<5	N
I44R0420	300	1	N	N	<10	50	7	5	N	N	30	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I44R0150	20	50	N	7	N	150	N	70	N	10	500	150	.09	5
I44R0170	30	10	N	10	N	150	N	70	N	15	N	150	.08	5
I44R0185	30	<10	N	10	N	100	N	70	N	15	N	100	.09	5
I44R0245	30	10	N	10	N	100	N	70	N	10	<200	100	.09	5
I44R0255	20	10	N	10	N	100	N	100	N	20	N	150	.08	5
I44R0270	30	20	N	10	N	100	N	70	N	20	N	150	.09	5
I44R0295	<5	<10	N	5	N	150	N	20	<20	N	N	200	.02	5
I44R0305	5	<10	N	7	N	100	N	50	<20	<10	N	150	.04	6
I44R0340	20	<10	N	10	N	150	N	100	<20	20	N	300	.06	6
I44R0360	20	<10	N	15	N	150	N	70	<20	30	N	200	.05	6
I44R0375	30	<10	N	15	N	150	N	100	<20	20	N	300	.06	6
I44R0395	30	20	N	15	N	150	N	100	<20	20	N	150	.09	6
I44R0405	10	<10	N	5	N	150	N	30	<20	10	N	150	.03	6
I44R0420	7	<10	N	5	N	100	N	20	<20	<10	N	200	.02	6

TABLE 18--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I46, 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
I46R0065	37 22 25	89 8 58	.5	1.5	.3	<.2	<.2	.2	N	N	N	50
I46R0120	37 22 25	89 8 58	15	3	.5	<.2	<.2	.15	N	N	N	50
I46R0150	37 22 25	89 8 58	.7	1	.5	<.2	<.2	.2	<.5	N	N	70
I46R0250	37 22 25	89 8 58	.5	1	.3	<.2	<.2	.2	N	N	N	50
I46R0275	37 22 25	89 8 58	.7	3	.5	<.2	<.2	.3	N	N	N	100
I46R0285	37 22 25	89 8 58	.7	3	.7	<.2	<.2	.5	N	N	N	100
I46R0300	37 22 25	89 8 58	.5	3	.7	<.2	<.2	.5	N	N	N	150
I46R0360	37 22 25	89 8 58	.2	2	.5	<.2	<.2	.3	N	N	N	150
I46R0425	37 22 25	89 8 58	.15	1.5	.2	<.2	<.2	.2	N	N	N	70
I46R0445	37 22 25	89 8 58	.2	1	.3	<.2	<.2	.3	N	N	N	70
I46R0470	37 22 25	89 8 58	.2	1	.2	<.2	<.2	.3	N	N	N	50
I46R0485	37 22 25	89 8 58	.2	1	.2	<.2	<.2	.15	N	N	N	70
I46R0604	37 22 25	89 8 58	.3	1	.1	<.2	<.2	.15	.5	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I46R0065	150	<1	N	N	N	50	20	5	N	N	50	7	N
I46R0120	200	<1	N	N	N	20	15	5	N	N	100	7	N
I46R0150	150	<1	N	N	N	20	10	5	N	N	10	5	N
I46R0250	100	<1	N	N	N	20	15	5	N	N	15	5	N
I46R0275	200	1	N	N	N	50	50	7	N	N	70	7	N
I46R0285	200	1	N	N	<10	70	20	7	N	N	100	7	<20
I46R0300	300	1	N	N	10	70	50	15	N	N	150	5	N
I46R0360	300	1	N	N	<10	70	20	10	N	N	100	5	N
I46R0425	100	<1	N	N	N	20	15	<5	N	N	50	<5	N
I46R0445	150	<1	N	N	N	20	15	<5	N	N	30	5	N
I46R0470	700	<1	N	N	N	15	10	5	N	N	20	<5	N
I46R0485	100	<1	N	N	N	15	10	<5	N	N	50	<5	N
I46R0604	150	<1	N	N	N	15	10	5	N	N	15	5	<20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I46R0065	10	<10	N	<5	N	100	N	50	<20	N	<200	200	.06	6
I46R0120	50	<10	N	5	N	150	N	50	<20	N	300	50	.16	6
I46R0150	30	<10	N	<5	N	100	N	50	<20	N	200	50	.07	6
I46R0250	20	<10	N	<5	N	100	N	70	<20	<10	300	50	.11	6
I46R0275	70	<10	N	7	N	100	N	100	<20	N	<200	150	.16	6
I46R0285	50	<10	N	7	N	100	N	100	<20	N	<200	200	.12	6
I46R0300	50	10	N	7	N	100	N	150	<20	N	200	200	.28	6
I46R0360	30	70	N	7	N	100	N	100	<20	N	300	150	.09	6
I46R0425	20	<10	N	<5	N	100	N	50	<20	N	<200	100	.04	6
I46R0445	30	<10	N	5	N	100	N	50	<20	N	<200	150	.08	6
I46R0470	30	<10	N	5	N	100	N	50	<20	N	<200	100	.05	6
I46R0485	30	<10	N	<5	N	100	N	30	<20	N	<200	70	.04	6
I46R0604	20	<10	N	<5	N	100	N	30	<20	N	200	50	.23	7

TABLE 19--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I47, 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
I47R0575	37 50 41	89 25 30	.2	7	2	.2	<.2	1	N	N	N	200
I47R0725	37 50 41	89 25 30	.15	10	1.5	.2	<.2	1	N	N	N	200
I47R0765	37 50 41	89 25 30	.3	7	2	.2	<.2	1	N	N	N	200
I47R0785	37 50 41	89 25 30	.3	5	1	.2	<.2	.7	N	N	N	150
I47R0835	37 50 41	89 25 30	.2	5	.7	<.2	<.2	.7	N	N	N	200
I47R0850	37 50 41	89 25 30	.2	5	1	.2	<.2	1	N	N	N	200
I47R0860	37 50 41	89 25 30	.2	5	1	<.2	<.2	1	N	N	N	200
I47R0895	37 50 41	89 25 30	.15	10	1.5	.2	<.2	1	N	N	N	200
I47R0930	37 50 41	89 25 30	.15	10	2	.3	<.2	1	N	N	N	200
I47R1030	37 50 41	89 25 30	.07	3	1	.3	<.2	1	N	N	N	150
I47R1050	37 50 41	89 25 30	.15	7	1.5	.2	<.2	1	N	N	N	200
I47R1075	37 50 41	89 25 30	.1	5	1	<.2	<.2	.7	N	N	N	200
I47R1110	37 50 41	89 25 30	.15	5	1	.2	<.2	1	N	N	N	150
I47R1125	37 50 41	89 25 30	.07	2	.5	<.2	<.2	.5	<.5	N	N	
I47R1190	37 50 41	89 25 30	<.05	2	.2	.2	<.2	.5	N	N	N	20
I47R1300	37 50 41	89 25 30	<.05	5	.5	<.2	<.2	.7	N	N	N	70
I47R1390	37 50 41	89 25 30	.15	5	.5	<.2	<.2	.3	<.5	N	N	70
I47R1455	37 50 41	89 25 30	2	3	.5	<.2	<.2	.15	N	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I47R0575	1,000	2	N	N	20	150	100	50	N	<50	300	<5	N
I47R0725	1,000	1.5	N	N	70	150	100	50	N	70	100	<5	<20
I47R0765	2,000	2	N	N	15	150	50	50	N	<50	100	<5	N
I47R0785	300	2	N	N	10	100	100	30	N	50	100	<5	N
I47R0835	200	2	<10	N	10	100	50	30	N	<50	100	<5	N
I47R0850	300	3	N	N	15	150	50	70	N	<50	100	<5	N
I47R0860	300	3	<10	N	15	150	30	50	N	<50	100	<5	N
I47R0895	200	2	N	N	20	150	70	50	N	<50	100	<5	N
I47R0930	200	2	N	N	20	150	100	70	N	70	100	<5	<20
I47R1030	1,000	<1	N	N	10	100	7	20	N	50	50	<5	<20
I47R1050	1,000	2	N	N	20	150	30	50	N	N	150	<5	N
I47R1075	300	2	N	N	10	100	10	10	N	<50	150	<5	N
I47R1110	500	1	N	N	15	100	50	20	N	N	100	<5	N
I47R1125	300	<1	N	N	<10	100	20	10	N	N	70	<5	N
I47R1190	500	<1	N	N	<10	30	30	10	N	N	50	<5	N
I47R1300	500	<1	N	N	<10	50	15	15	N	N	50	<5	N
I47R1390	300	<1	N	N	<10	50	30	10	<10	N	100	<5	N
I47R1455	300	N	<10	N	<10	10	15	7	<10	N	30	5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I47R0575	70	20	N	20	N	<100	N	200	N	15	200	200	.16	3
I47R0725	150	50	N	20	N	<100	N	200	N	30	200	300	.05	4
I47R0765	100	20	N	15	N	<100	N	300	N	15	300	200	.1	4
I47R0785	70	10	N	10	N	<100	N	150	N	15	700	200	.1	4
I47R0835	50	20	N	15	N	<100	N	150	N	15	500	150	.1	4
I47R0850	50	30	N	20	N	<100	N	100	N	15	300	150	.1	4
I47R0860	50	15	N	15	N	<100	N	200	N	10	<200	100	.07	4
I47R0895	100	<10	<100	20	N	<100	N	200	N	20	500	300	.12	4
I47R0930	100	20	N	20	N	<100	N	200	N	20	<200	200	.07	4
I47R1030	30	20	N	10	N	<100	N	100	N	20	<200	1,000	..03	5
I47R1050	70	300	<100	15	N	<100	N	200	N	20	<200	300	.08	5
I47R1075	30	<10	N	10	N	<100	N	150	N	15	<200	200	.08	5
I47R1110	50	10	<100	15	N	<100	N	100	N	10	<200	300	.06	5
I47R1125	20	<10	N	7	N	<100	N	100	<20	10	<200	300	.02	5
I47R1190	15	<10	N	5	N	<100	N	30	<20	10	<200	1,000	<.01	5
I47R1300	20	<10	N	10	N	<100	N	70	<20	10	<200	1,000	.03	5
I47R1390	20	700	200	5	30	<100	N	50	<20	10	300	200	.06	6
I47R1455	15	500	150	<5	20	100	N	30	<20	<10	200	150	.32	6

TABLE 20--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I48, 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
I48R0075	37 27 38	89 14 42	.1	10	.07	<.2	<.2	.1	N	N	N	30
I48R0095	37 27 38	89 14 42	.3	3	.07	<.2	<.2	.07	N	N	N	50
I48R0155	37 27 38	89 14 42	.3	1	.07	<.2	<.2	.05	N	N	N	50
I48R0185	37 27 38	89 14 42	.15	.07	.05	<.2	<.2	.01	N	N	N	50
I48R0290	37 27 38	89 14 42	.15	1.5	.5	<.2	<.2	.2	<.5	N	N	70
I48R0366	37 27 38	89 14 42	.2	1.5	.5	<.2	<.2	.3	<.5	N	N	70
I48R0460	37 27 38	89 14 42	.3	.7	.1	<.2	<.2	.1	N	N	N	50
I48R0555	37 27 38	89 14 42	.2	7	.5	<.2	<.2	.3	N	N	N	70
I48R0705	37 27 38	89 14 42	.2	2	.3	<.2	<.2	.2	N	N	N	70

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I48R0075	200	1.5	N	N	15	200	20	10	N	N	1,000	<5	N
I48R0095	100	<1	N	N	<10	50	10	5	N	N	100	<5	N
I48R0155	150	<1	N	N	N	20	5	<5	N	N	70	<5	N
I48R0185	N	N	N	N	N	10	5	<5	N	N	<10	<5	N
I48R0290	100	N	N	N	N	20	7	<5	N	N	10	50	N
I48R0366	200	<1	N	N	<10	50	30	5	N	N	30	7	N
I48R0460	200	N	N	N	N	20	7	5	N	N	10	5	N
I48R0555	150	1	N	N	15	20	50	7	N	N	50	5	N
I48R0705	100	<1	N	N	<10	30	20	5	N	N	30	<5	N

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I48R0075	20	<10	N	7	N	N	N	200	N	<10	<200	100	.02	6
I48R0095	10	<10	N	<5	N	700	N	100	<20	N	N	20	<.01	6
I48R0155	10	10	N	N	N	>5,000	N	30	<20	N	<200	50	.12	6
I48R0185	<5	10	N	N	N	100	N	10	<20	N	<200	N	<.01	6
I48R0290	30	15	N	N	N	100	N	50	<20	N	<200	150	.05	6
I48R0366	50	20	N	N	N	1,000	N	100	<20	N	300	70	.22	6
I48R0460	10	<10	N	<5	N	300	<100	20	<20	N	<200	30	.03	7
I48R0555	50	150	N	<5	N	<100	N	100	<20	N	300	70	.17	7
I48R0705	20	N	N	<5	N	100	N	50	20	N	200	150	.09	7

TABLE 21--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I49, 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
I49R0327	37 59 29	89 45 20	.15	7	.7	<.2	<.2	.3	N	N	N	100
I49R0565	37 59 29	89 45 20	.15	7	1	<.2	<.2	1	N	N	N	150
I49R0606	37 59 29	89 45 20	.07	1.5	.5	<.2	<.2	.7	N	N	N	70
I49R0650	37 59 29	89 45 20	<.05	1	.15	<.2	<.2	.3	N	N	N	50
I49R0670	37 59 29	89 45 20	<.05	10	.5	<.2	<.2	.5	N	N	N	200
I49R0707	37 59 29	89 45 20	<.05	2	.1	<.2	<.2	.1	N	N	N	15
I49R0719	37 59 29	89 45 20	<.05	2	.07	<.2	<.2	.2	N	N	N	20
I49R0731	37 59 29	89 45 20	<.05	1	.05	<.2	<.2	.15	<.5	N	N	10
I49R0737	37 59 29	89 45 20	<.05	.2	.02	<.2	<.2	.1	N	N	N	<10
I49R0749	37 59 29	89 45 20	<.05	1	.02	<.2	<.2	.1	N	N	N	15
I49R0767	37 59 29	89 45 20	<.05	1	.07	<.2	<.2	.2	N	N	N	10
I49R0802	37 59 29	89 45 20	.07	7	.3	<.2	<.2	.2	N	N	N	70

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I49R0327	150	1	N	N	10	70	70	20	N	N	50	<5	N
I49R0565	200	1	N	N	15	100	100	70	N	N	70	<5	N
I49R0606	300	<1	N	N	<10	50	7	7	N	<50	20	<5	N
I49R0650	150	<1	N	N	N	50	5	5	N	N	10	<5	N
I49R0670	200	2	N	N	20	100	100	30	N	N	100	<5	N
I49R0707	2,000	<1	N	N	N	30	30	5	N	N	20	<5	N
I49R0719	3,000	N	N	N	N	20	5	5	N	N	20	<5	N
I49R0731	2,000	N	N	N	N	70	20	<5	N	N	20	<5	N
I49R0737	700	N	N	N	N	50	<5	5	N	N	<10	<5	N
I49R0749	200	N	N	N	N	10	20	<5	N	N	<10	<5	N
I49R0767	1,500	N	N	N	N	15	5	5	N	N	<10	<5	N
I49R0802	>5,000	<1	N	N	10	20	20	7	N	N	50	<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 #
I49R0327	70	<10	N	7	N	100	N	100	<20	N	500	100	.05	4
I49R0565	70	10	N	15	N	100	N	150	<20	20	<200	200	.08	7
I49R0606	10	<10	N	7	N	150	N	70	<20	10	N	700	.02	7
I49R0650	10	N	N	5	N	150	N	50	<20	10	N	300	.01	7
I49R0670	70	20	N	10	N	150	N	100	<20	20	<200	200	.04	7
I49R0707	10	N	N	N	N	100	N	30	<20	<10	N	150	.01	7
I49R0719	10	<10	N	<5	N	<100	N	30	<20	N	N	300	<.01	6
I49R0731	7	<10	N	<5	N	<100	N	20	<20	N	N	500	<.01	6
I49R0737	5	<10	N	N	N	<100	N	15	<20	N	N	200	<.01	6
I49R0749	7	<10	N	<5	N	<100	N	15	<20	N	N	500	<.01	6
I49R0767	10	<10	N	N	N	<100	N	20	<20	N	N	200	<.01	6
I49R0802	30	15	N	5	N	100	N	50	<20	10	<200	300	.02	6

TABLE 22--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I50, 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
I50R1005	37 54 4	89 34 7	.07	10	.7	<.2	<.2	1	<.5	N	N	150
I50R1015	37 54 4	89 34 7	.05	2	.5	<.2	<.2	.7	<.5	N	N	50
I50R1025	37 54 4	89 34 7	<.05	5	.5	<.2	<.2	.5	<.5	N	N	100
I50R1035	37 54 4	89 34 7	<.05	7	.7	<.2	<.2	1	<.5	N	N	150
I50R1045	37 54 4	89 34 7	<.05	3	.5	<.2	<.2	.5	<.5	N	N	100
I50R1055	37 54 4	89 34 7	.05	5	.7	<.2	<.2	1	<.5	N	N	150
I50R1065	37 54 4	89 34 7	<.05	5	.5	<.2	<.2	1	<.5	N	N	150
I50R1075	37 54 4	89 34 7	<.05	1.5	.5	<.2	<.2	.5	<.5	N	N	100
I50R1085	37 54 4	89 34 7	.05	1.5	.5	<.2	<.2	.5	<.5	N	N	70
I50R1095	37 54 4	89 34 7	.05	5	.7	<.2	<.2	.7	<.5	N	N	100
I50R1105	37 54 4	89 34 7	.05	7	1	<.2	<.2	1	<.5	N	N	150
I50R1115	37 54 4	89 34 7	.05	5	.7	<.2	<.2	.7	<.5	N	N	150
I50R1125	37 54 4	89 34 7	.05	7	.5	<.2	<.2	.7	<.5	N	N	100
I50R1135	37 54 4	89 34 7	.05	5	.5	<.2	<.2	.7	<.5	N	N	100
I50R1145	37 54 4	89 34 7	.05	1.5	.2	<.2	<.2	.5	<.5	N	N	50
I50R1155	37 54 4	89 34 7	.07	7	.7	<.2	<.2	1	<.5	N	N	100
I50R1165	37 54 4	89 34 7	<.05	7	.5	<.2	<.2	1	<.5	N	N	100
I50R1175	37 54 4	89 34 7	.05	2	.5	<.2	<.2	.7	<.5	N	N	70

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I50R1005	300	1.5	N	N	20	100	10	50	N	<50	100	<5	<20
I50R1015	300	<1	N	N	<10	70	70	10	N	N	20	<5	N
I50R1025	300	1	N	N	<10	100	10	15	N	N	30	<5	<20
I50R1035	200	1.5	N	N	20	100	150	30	N	<50	50	<5	<20
I50R1045	200	1	N	N	<10	50	7	20	N	N	30	<5	<20
I50R1055	200	1.5	N	N	10	150	7	50	N	<50	70	<5	<20
I50R1065	300	1.5	N	N	10	100	5	50	N	<50	70	<5	<20
I50R1075	200	1	N	N	<10	70	7	15	N	N	20	<5	N
I50R1085	200	<1	N	N	<10	50	100	7	N	N	15	<5	N
I50R1095	200	1	N	N	15	100	10	20	N	N	20	<5	N
I50R1105	300	1.5	N	N	20	100	7	30	N	N	30	<5	<20
I50R1115	200	1.5	N	N	15	100	10	10	N	N	30	<5	N
I50R1125	300	1.5	N	N	10	100	7	30	N	N	50	<5	<20
I50R1135	300	1	N	N	20	70	5	15	N	N	30	<5	N
I50R1145	500	1	N	N	N	30	<5	7	N	N	15	<5	N
I50R1155	300	1.5	N	N	<10	100	7	20	N	N	50	<5	N
I50R1165	300	1	N	N	<10	150	10	15	N	N	20	<5	<20
I50R1175	300	1	N	N	<10	100	7	10	N	N	20	<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 #
I50R1005	50	<10	N	20	N	100	N	150	<20	20	200	300	.06	5
I50R1015	20	<10	N	7	N	100	N	100	<20	15	200	700	.02	5
I50R1025	30	<10	N	15	N	100	N	100	<20	15	200	500	.02	5
I50R1035	50	<10	N	20	N	100	N	150	<20	20	<200	200	.06	5
I50R1045	30	<10	N	15	N	100	N	100	<20	15	<200	200	.04	5
I50R1055	50	<10	N	20	N	100	N	150	<20	15	<200	200	.06	5
I50R1065	50	<10	N	15	N	100	N	100	<20	15	<200	150	.06	6
I50R1075	30	<10	N	7	N	100	N	70	<20	10	<200	150	.03	6
I50R1085	30	<10	N	7	N	100	N	100	<20	<10	<200	200	.04	6
I50R1095	50	<10	N	10	N	100	N	100	<20	15	<200	200	.05	6
I50R1105	50	<10	N	15	N	100	N	100	<20	15	<200	300	.06	6
I50R1115	70	<10	N	15	N	100	N	100	<20	15	<200	500	.04	6
I50R1125	50	<10	N	20	N	100	N	150	<20	15	<200	300	.06	6
I50R1135	30	<10	N	10	N	150	N	100	<20	10	<200	300	.04	6
I50R1145	15	<10	N	7	N	<100	N	70	<20	10	<200	500	.03	6
I50R1155	20	<10	N	10	N	100	N	100	<20	15	<200	300	.06	6
I50R1165	30	<10	N	10	N	<100	N	100	<20	10	<200	200	.06	6
I50R1175	15	<10	N	7	N	100	N	100	<20	<10	<200	200	.04	6

TABLE 23--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I51, 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
I51R0055	37 32 38	89 18 13	.1	5	.3	.2	<.2	.5	N	N	N	50
I51R0080	37 32 38	89 18 13	.1	5	.7	<.2	<.2	.3	N	N	N	100
I51R0125	37 32 38	89 18 13	.15	7	.7	<.2	<.2	.5	N	N	N	100
I51R0150	37 32 38	89 18 13	.5	3	.5	<.2	<.2	.7	N	N	N	100
I51R0185	37 32 38	89 18 13	.1	3	.7	<.2	<.2	.5	N	N	N	100
I51R0220	37 32 38	89 18 13	.07	3	.5	<.2	<.2	.5	N	N	N	50
I51R0230	37 32 38	89 18 13	.05	2	.5	.3	<.2	.5	N	N	N	50
I51R0240	37 32 38	89 18 13	.07	3	.7	<.2	<.2	.7	N	N	N	70
I51R0253	37 32 38	89 18 13	.05	7	1	<.2	<.2	.7	N	N	N	150
I51R0270	37 32 38	89 18 13	.1	10	1	<.2	<.2	.5	N	N	N	150
I51R0280	37 32 38	89 18 13	.05	3	.7	<.2	<.2	.5	N	N	N	50
I51R0290	37 32 38	89 18 13	<.05	2	.3	<.2	<.2	.3	N	N	N	30
I51R0305	37 32 38	89 18 13	.07	10	.7	<.2	<.2	.5	N	N	N	150
I51R0320	37 32 38	89 18 13	.07	5	.7	<.2	<.2	.5	N	N	N	100
I51R0330	37 32 38	89 18 13	<.05	2	.5	<.2	<.2	.3	N	N	N	30
I51R0340	37 32 38	89 18 13	<.05	5	.7	<.2	<.2	.5	N	N	N	50
I51R0370	37 32 38	89 18 13	.1	5	.5	<.2	<.2	.3	N	N	N	50
I51R0450	37 32 38	89 18 13	.7	7	.7	<.2	<.2	.3	N	N	N	50
I51R0515	37 32 38	89 18 13	.2	10	1.5	<.2	<.2	.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
I51R0055	500	1	N	N	<10	50	15	10	N	N	100	<5	N
I51R0080	500	1.5	N	N	20	100	50	20	N	<50	70	<5	N
I51R0125	300	1.5	N	N	10	70	15	20	N	<50	200	<5	N
I51R0150	300	1	N	N	<10	70	10	15	N	N	100	<5	<20
I51R0185	300	1	N	N	<10	50	15	15	N	N	70	<5	N
I51R0220	500	1	N	N	<10	70	50	15	N	N	50	<5	N
I51R0230	700	<1	N	N	<10	50	5	7	N	N	50	<5	N
I51R0240	500	1	N	N	20	70	10	10	N	N	70	<5	N
I51R0253	200	1.5	N	N	30	100	70	50	N	<50	100	<5	N
I51R0270	200	1.5	N	N	15	100	100	50	N	N	100	<5	N
I51R0280	300	1.5	N	N	<10	70	20	15	N	N	30	<5	N
I51R0290	300	<1	N	N	30	70	5	7	N	N	15	<5	N
I51R0305	200	1.5	N	N	20	100	70	30	N	<50	70	<5	N
I51R0320	300	1	N	N	10	70	20	15	N	<50	50	<5	N
I51R0330	500	<1	N	N	15	50	7	5	N	<50	10	<5	N
I51R0340	200	1	N	N	15	70	30	10	N	<50	20	<5	N
I51R0370	300	1	N	N	10	50	30	10	N	<50	20	<5	N
I51R0450	200	1	N	N	10	50	100	15	N	<50	100	<5	N
I51R0515	200	1.5	N	N	15	70	15	20	N	<50	100	<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 #
I51R0055	30	<10	N	5	N	<100	N	70	<20	10	<200	500	.01	2
I51R0080	50	10	N	10	N	<100	N	100	<20	15	500	200	.05	2
I51R0125	50	10	N	10	N	<100	N	150	<20	20	200	100	.08	2
I51R0150	20	<10	N	7	N	<100	N	100	<20	20	<200	300	.07	2
I51R0185	20	<10	N	10	N	<100	N	100	<20	15	<200	500	.06	2
I51R0220	20	<10	N	10	N	<100	N	100	<20	15	<200	300	.03	2
I51R0230	20	<10	N	7	N	<100	N	50	<20	20	<200	500	.01	2
I51R0240	30	<10	N	10	N	<100	N	50	<20	30	<200	700	.02	2
I51R0253	70	<10	N	20	N	<100	N	100	<20	20	<200	200	.08	2
I51R0270	70	<10	N	15	N	<100	N	100	<20	20	300	150	.08	2
I51R0280	30	<10	N	7	N	<100	N	70	<20	15	<200	500	.04	2
I51R0290	20	<10	N	<5	N	<100	N	50	<20	<10	<200	300	.01	2
I51R0305	50	<10	N	10	N	<100	N	100	<20	20	<200	300	.08	2
I51R0320	50	<10	N	10	N	<100	N	100	<20	15	<200	200	.05	2
I51R0330	15	<10	N	5	N	<100	N	50	<20	<10	<200	300	.04	2
I51R0340	30	<10	N	7	N	<100	N	100	<20	15	<200	300	.08	2
I51R0370	30	<10	N	7	N	<100	N	70	<20	10	<200	200	.08	2
I51R0450	50	70	N	10	N	<100	N	100	<20	15	300	200	.06	2
I51R0515	50	<10	N	15	N	<100	N	150	<20	15	200	300	.14	2

TABLE 24--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I52, 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
I52R0115	37 28 29	89 16 53	.7	3	.15	<.2	<.2	.5	N	N	N	100
I52R0475	37 28 29	89 16 53	.5	.7	.07	<.2	<.2	.1	<.5	N	N	150
I52R0490	37 28 29	89 16 53	.3	3	.5	<.2	<.2	.5	<.5	N	N	150
I52R0505	37 28 29	89 16 53	.2	2	.3	<.2	<.2	.2	N	N	N	100
I52R0520	37 28 29	89 16 53	.3	3	.7	<.2	<.2	.3	N	N	N	100
I52R0540	37 28 29	89 16 53	.2	1.5	.3	<.2	<.2	.3	N	N	N	100
I52R0545	37 28 29	89 16 53	.05	3	1	<.2	<.2	.7	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I52R0115	200	<1	N	N	N	<10	150	<5	N	N	1,500	N	N
I52R0475	200	<1	N	N	<10	<10	5	<5	N	N	10	N	N
I52R0490	200	<1	N	N	N	50	100	5	N	N	10	10	N
I52R0505	150	<1	N	N	N	30	10	5	N	N	10	<5	N
I52R0520	150	1	N	N	N	70	50	5	N	N	50	7	N
I52R0540	200	<1	N	N	N	50	15	7	N	N	50	5	N
I52R0545	300	1	N	N	10	50	15	7	N	N	100	<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 #
I52R0115	5	<10	N	<5	N	<100	N	20	<20	N	<200	300	.03	7
I52R0475	5	<10	N	<5	N	<100	N	10	<20	N	200	15	.03	7
I52R0490	150	<10	N	<5	N	<100	N	150	<20	N	200	150	.07	7
I52R0505	15	<10	N	<5	N	<100	N	50	<20	N	<200	100	.04	7
I52R0520	70	<10	N	<5	N	<100	N	200	<20	N	200	200	.11	7
I52R0540	20	<10	N	5	N	<100	N	100	<20	N	<200	150	.04	7
I52R0545	100	<10	N	7	N	<100	N	200	<20	10	N	300	.09	11

TABLE 25--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I53, 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
I53R0295	37 55 57	89 29 32	.1	5	.2	<.2	<.2	.3	N	N	N	70
I53R0370	37 55 57	89 29 32	.07	3	.2	.2	<.2	.3	.5	N	N	50
I53R0465	37 55 57	89 29 32	.05	5	.7	.2	<.2	.7	N	N	N	100
I53R0490	37 55 57	89 29 32	.07	5	1	.2	<.2	.7	N	<200	N	100
I53R0515	37 55 57	89 29 32	.1	7	1	.2	<.2	.5	N	N	N	100
I53R0555	37 55 57	89 29 32	.3	2	.5	.2	<.2	.5	N	N	N	70
I53R0570	37 55 57	89 29 32	.1	3	.7	.2	<.2	.5	N	N	N	50
I53R0635	37 55 57	89 29 32	.07	7	.7	<.2	<.2	.7	N	N	N	100
I53R0665	37 55 57	89 29 32	.2	7	.7	<.2	<.2	.7	N	N	N	100
I53R0685	37 55 57	89 29 32	.15	5	.7	.2	<.2	.7	N	N	N	100
I53R0740	37 55 57	89 29 32	.1	7	.7	.2	<.2	.5	N	N	N	100
I53R0760	37 55 57	89 29 32	.15	7	.7	<.2	<.2	.7	N	N	N	100
I53R0815	37 55 57	89 29 32	.5	7	1	.3	<.2	.7	N	N	N	100
I53R0845	37 55 57	89 29 32	.15	5	1	.2	<.2	.5	N	N	N	150
I53R0870	37 55 57	89 29 32	.15	7	1	<.2	<.2	.7	N	N	N	100
I53R0910	37 55 57	89 29 32	.05	5	1	.2	<.2	.5	N	N	N	100
I53R0945	37 55 57	89 29 32	.15	3	.7	.2	<.2	.5	N	N	N	70
I53R0970	37 55 57	89 29 32	.1	5	.7	.2	<.2	.5	N	N	N	100
I53R0980	37 55 57	89 29 32	.07	5	.7	<.2	<.2	.5	N	N	N	100
I53R1015	37 55 57	89 29 32	.1	2	.5	<.2	<.2	.5	N	N	N	50
I53R1030	37 55 57	89 29 32	<.05	1	.1	<.2	<.2	.2	N	N	N	20
I53R1040	37 55 57	89 29 32	.05	3	.5	<.2	<.2	.2	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I53R0295	150	1	<10	N	15	50	50	10	N	N	50	7	N
I53R0370	700	1	<10	N	10	50	2,000	7	N	N	100	5	N
I53R0465	300	1.5	<10	N	15	100	150	15	N	<50	100	10	<20
I53R0490	200	2	<10	N	20	100	50	15	N	50	150	5	<20
I53R0515	300	2	<10	N	30	100	50	15	N	50	300	<5	<20
I53R0555	200	1	<10	N	<10	100	15	10	N	N	150	<5	<20
I53R0570	200	1	<10	N	10	100	30	10	N	50	200	<5	<20
I53R0635	200	1.5	<10	N	30	100	70	15	N	70	150	<5	<20
I53R0665	300	1.5	<10	N	30	100	100	15	N	70	1,000	<5	<20
I53R0685	700	1.5	<10	N	20	100	30	10	N	50	100	5	<20
I53R0740	200	1.5	<10	N	20	100	50	50	N	50	70	<5	<20
I53R0760	200	1.5	<10	N	30	100	100	30	N	50	150	<5	<20
I53R0815	2,000	1.5	<10	N	20	100	30	70	N	70	200	<5	<20
I53R0845	>5,000	1.5	<10	N	20	100	50	50	N	50	200	<5	<20
I53R0870	200	1.5	<10	N	30	150	50	50	N	50	200	<5	<20
I53R0910	150	1.5	<10	N	20	100	50	20	N	50	150	<5	N
I53R0945	2,000	1	<10	N	20	50	20	10	N	50	150	5	<20
I53R0970	2,000	1	<10	N	15	70	150	10	N	50	150	<5	<20
I53R0980	200	1.5	<10	N	10	70	5	10	N	50	150	5	N
I53R1015	2,000	1	<10	N	<10	70	50	10	N	N	30	<5	N
I53R1030	300	<1	<10	N	<10	50	10	7	N	N	10	<5	<20
I53R1040	200	1.5	<10	N	15	100	70	20	N	50	70	<5	<20

TABLE 25--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I53, 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 #
I53R0295	50	<10	N	7	N	<100	N	70	<20	10	300	100	.02	7
I53R0370	50	<10	N	7	50	<100	N	50	<20	15	<200	300	.02	7
I53R0465	50	<10	N	15	N	<100	N	100	<20	20	300	150	.1	7
I53R0490	50	<10	N	10	N	<100	N	100	<20	20	<200	100	.14	7
I53R0515	50	<10	N	15	N	<100	N	100	<20	20	<200	100	.11	7
I53R0555	30	<10	N	10	N	<100	N	100	<20	15	200	200	.03	7
I53R0570	50	<10	N	10	N	<100	N	100	<20	20	<200	200	.04	7
I53R0635	70	<10	N	15	N	<100	N	100	<20	30	<200	150	.05	4
I53R0665	100	<10	N	15	N	100	N	100	<20	30	300	200	.06	4
I53R0685	70	<10	N	15	N	100	N	100	<20	20	500	150	.08	4
I53R0740	70	20	N	15	N	<100	N	100	<20	20	200	100	.09	4
I53R0760	70	15	N	15	N	<100	N	100	<20	30	200	100	.13	4
I53R0815	70	30	N	15	N	<100	N	100	<20	30	<200	100	.1	4
I53R0845	70	20	N	15	N	200	N	100	<20	30	<200	100	.05	4
I53R0870	70	<10	N	20	N	200	N	150	<20	30	<200	150	.05	4
I53R0910	70	<10	N	15	N	100	N	100	<20	30	300	150	.05	5
I53R0945	50	<10	N	10	N	100	N	100	<20	15	<200	150	.04	5
I53R0970	70	<10	N	15	N	100	N	100	<20	20	<200	150	.06	5
I53R0980	50	<10	N	15	N	100	N	100	<20	20	<200	150	.09	5
I53R1015	20	<10	N	7	N	100	N	70	<20	10	N	200	.04	5
I53R1030	10	<10	N	<5	N	100	N	20	<20	<10	N	200	<.01	5
I53R1040	50	10	N	10	N	100	N	100	<20	20	N	100	.09	5

TABLE 26--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I54, 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
I54R0455	37 49 39	89 26 36	1	7	.5	<.2	<.2	.3	N	N	N	100
I54R0465	37 49 39	89 26 36	.2	5	.5	<.2	<.2	.7	N	N	N	100
I54R0565	37 49 39	89 26 36	.15	7	.7	<.2	<.2	.5	N	N	N	300
I54R0610	37 49 39	89 26 36	.15	5	.7	.2	<.2	.5	N	N	N	200
I54R0665	37 49 39	89 26 36	.1	1	.3	.2	<.2	.3	N	N	N	70
I54R0675	37 49 39	89 26 36	.07	1	.3	.2	<.2	.5	N	N	N	50
I54R0795	37 49 39	89 26 36	.2	7	1	<.2	<.2	.7	N	N	N	150
I54R0815	37 49 39	89 26 36	.15	5	.7	.2	<.2	.5	N	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I54R0455	200	1	N	N	15	50	50	20	N	N	150	<5	N
I54R0465	150	1	N	N	10	100	30	15	N	N	150	<5	N
I54R0565	2,000	1.5	N	N	15	150	50	30	N	N	100	7	N
I54R0610	200	2	N	N	15	100	20	50	N	<50	150	5	N
I54R0665	200	<1	N	N	<10	100	7	10	N	N	20	<5	N
I54R0675	200	<1	N	N	<10	100	5	5	N	N	10	<5	N
I54R0795	1,000	1.5	N	N	15	100	70	20	N	50	70	<5	N
I54R0815	150	1	N	N	10	100	20	10	N	N	50	<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 #
I54R0455	50	20	N	7	N	<100	N	70	<20	<10	<200	100	.04	2
I54R0465	30	N	N	10	N	<100	N	100	<20	20	N	200	.04	2
I54R0565	50	<10	N	15	N	<100	N	100	<20	15	300	150	.06	2
I54R0610	30	15	N	15	N	<100	N	100	<20	15	<200	100	.1	2
I54R0665	15	<10	N	5	N	<100	N	50	<20	10	N	300	.02	2
I54R0675	10	<10	N	<5	N	<100	N	50	<20	<10	<200	300	.02	2
I54R0795	50	<10	N	10	N	<100	N	100	<20	15	200	100	.14	2
I54R0815	50	<10	N	7	N	<100	N	100	<20	10	300	100	.08	2

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I55, 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
I55R0065	37 28 17	89 18 15	.1	1.5	.02	<.2	<.2	.05	<.5	N	N	50
I55R0080	37 28 17	89 18 15	.1	1.5	.05	<.2	<.2	.05	<.5	N	N	50
I55R0095	37 28 17	89 18 15	.15	.5	.07	<.2	<.2	.07	N	N	N	70
I55R0110	37 28 17	89 18 15	.15	1	.1	<.2	<.2	.1	N	N	N	50
I55R0120	37 28 17	89 18 15	.15	.5	.1	<.2	<.2	.15	.5	N	N	50
I55R0135	37 28 17	89 18 15	.15	.5	.07	<.2	<.2	.1	N	N	N	50
I55R0145	37 28 17	89 18 15	.07	1	.2	<.2	<.2	.5	N	N	N	70
I55R0160	37 28 17	89 18 15	.15	1.5	.3	<.2	<.2	.5	N	N	N	100
I55R0170	37 28 17	89 18 15	.1	1	.2	<.2	<.2	.7	N	N	N	70
I55R0180	37 28 17	89 18 15	.05	2	.5	<.2	<.2	.7	N	N	N	100
I55R0190	37 28 17	89 18 15	.15	2	.5	<.2	<.2	.7	N	N	N	100
I55R0200	37 28 17	89 18 15	.07	2	.5	<.2	<.2	.7	N	N	N	100
I55R0210	37 28 17	89 18 15	.07	5	.5	.2	<.2	.5	N	N	N	100
I55R0220	37 28 17	89 18 15	.05	5	.5	.5	<.2	.7	N	N	N	100
I55R0230	37 28 17	89 18 15	<.05	3	.5	.3	<.2	.7	N	N	N	100
I55R0240	37 28 17	89 18 15	.3	2	.2	<.2	<.2	.5	N	N	N	70
I55R0250	37 28 17	89 18 15	.2	.5	.15	<.2	<.2	.2	N	N	N	30
I55R0260	37 28 17	89 18 15	.15	5	.3	<.2	<.2	.7	N	N	N	100
I55R0270	37 28 17	89 18 15	.5	.3	.15	<.2	<.2	.5	N	N	N	50
I55R0280	37 28 17	89 18 15	.2	.5	.2	<.2	<.2	.5	N	N	N	50
I55R0290	37 28 17	89 18 15	.5	1	.5	<.2	<.2	.7	N	N	N	100
I55R0300	37 28 17	89 18 15	.7	1	.5	<.2	<.2	.7	N	N	N	100
I55R0310	37 28 17	89 18 15	1	2	.3	<.2	<.2	.7	N	N	N	100
I55R0320	37 28 17	89 18 15	1	1.5	.5	.2	<.2	.5	N	N	N	150
I55R0330	37 28 17	89 18 15	1.5	1.5	.5	.2	<.2	.7	N	N	N	100
I55R0340	37 28 17	89 18 15	1	2	.3	.3	<.2	.5	N	N	N	100
I55R0350	37 28 17	89 18 15	.3	3	.3	.3	<.2	.3	N	N	N	100
I55R0360	37 28 17	89 18 15	.2	1.5	.5	1	<.2	.5	N	N	N	100
I55R0370	37 28 17	89 18 15	.3	3	.5	.3	<.2	.7	N	N	N	100
I55R0380	37 28 17	89 18 15	.15	1.5	.3	.2	<.2	.5	N	N	N	70
I55R0390	37 28 17	89 18 15	.2	1	.5	.3	<.2	.5	N	N	N	100
I55R0400	37 28 17	89 18 15	.3	1.5	.3	.2	<.2	.5	N	N	N	100
I55R0410	37 28 17	89 18 15	.2	1.5	.5	<.2	<.2	.5	N	N	N	100
I55R0425	37 28 17	89 18 15	.2	1.5	.3	<.2	<.2	.5	N	N	N	100

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I55, 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
I55R0065	300	1	N	N	10	70	15	5	N	N	200	5	N
I55R0080	300	1	N	N	<10	70	15	5	N	N	150	7	N
I55R0095	150	1	N	N	<10	30	15	5	N	N	50	7	N
I55R0110	150	1	N	N	<10	50	30	5	N	N	30	10	N
I55R0120	200	1	N	N	<10	50	50	5	N	N	20	10	N
I55R0135	150	<1	N	N	<10	30	15	5	N	N	30	5	N
I55R0145	300	1.5	N	N	10	50	20	7	N	<50	70	<5	<20
I55R0160	300	1.5	N	N	15	50	50	7	N	<50	70	<5	<20
I55R0170	300	1.5	N	N	15	50	20	7	N	50	50	<5	N
I55R0180	300	2	N	N	20	50	50	10	N	50	70	<5	<20
I55R0190	300	2	N	N	20	50	70	15	N	<50	100	<5	<20
I55R0200	300	2	N	N	20	50	20	10	N	<50	100	<5	N
I55R0210	300	3	N	N	30	100	150	30	N	50	200	100	N
I55R0220	500	5	N	N	30	100	150	50	N	70	200	100	<20
I55R0230	500	5	N	N	30	100	150	30	N	70	100	100	N
I55R0240	200	<1	N	N	<10	20	70	5	N	N	50	20	N
I55R0250	150	<1	N	N	<10	20	15	<5	N	N	20	15	N
I55R0260	300	2	N	N	15	70	100	20	N	N	100	50	<20
I55R0270	200	<1	N	N	<10	50	30	7	N	N	50	7	N
I55R0280	200	1	N	N	15	50	30	5	N	<50	70	7	N
I55R0290	200	1.5	N	N	20	70	50	10	N	50	100	<5	N
I55R0300	300	2	N	N	20	100	100	15	N	<50	150	5	<20
I55R0310	200	2	N	N	30	70	50	10	N	N	200	<5	N
I55R0320	200	2	N	N	30	100	50	20	N	N	200	<5	N
I55R0330	200	2	N	N	30	70	50	20	N	50	200	<5	<20
I55R0340	200	2	N	N	30	70	200	30	N	50	200	<5	N
I55R0350	200	1.5	N	N	20	50	50	30	N	N	200	<5	N
I55R0360	300	1.5	N	N	20	70	50	50	N	<50	200	<5	<20
I55R0370	300	1.5	N	N	30	70	50	30	N	50	200	<5	N
I55R0380	300	1.5	N	N	20	50	50	20	N	<50	200	<5	N
I55R0390	200	1.5	N	N	15	50	50	30	N	<50	200	<5	N
I55R0400	200	1	N	N	10	30	50	10	N	<50	200	<5	N
I55R0410	200	1	N	N	10	50	70	10	N	<50	150	<5	N
I55R0425	200	1.5	N	N	10	50	70	15	N	<50	150	<5	N

TABLE 27--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I55, 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 #
I55R0065	15	<10	N	<5	N	100	N	70	<20	10	200	50	<.01	7
I55R0080	20	<10	N	<5	N	100	N	50	<20	10	200	50	.01	7
I55R0095	20	<10	N	<5	N	100	N	30	20	N	200	50	.02	7
I55R0110	30	<10	N	<5	N	100	N	70	<20	N	300	50	.04	7
I55R0120	30	<10	N	<5	N	100	N	50	<20	N	700	100	.04	7
I55R0135	15	<10	N	<5	N	100	N	50	<20	N	300	50	.03	7
I55R0145	50	20	N	7	N	100	N	100	<20	15	N	150	.06	11
I55R0160	50	15	N	7	N	100	N	100	<20	10	N	100	.05	11
I55R0170	70	15	N	10	N	100	N	100	<20	10	N	100	.05	11
I55R0180	70	10	N	15	N	100	N	150	<20	15	N	100	.07	11
I55R0190	70	10	N	15	N	100	N	150	<20	15	N	100	.07	11
I55R0200	70	<10	N	10	N	<100	N	100	<20	15	N	100	.07	11
I55R0210	150	100	N	15	N	<100	N	200	<20	20	<200	100	.08	10
I55R0220	150	100	N	15	N	<100	N	200	<20	30	<200	100	.07	10
I55R0230	100	50	N	15	N	<100	N	200	<20	20	<200	150	.07	10
I55R0240	20	<10	N	5	N	<100	N	100	<20	10	N	150	.03	10
I55R0250	7	<10	N	<5	N	<100	N	30	<20	<10	N	100	.02	10
I55R0260	50	20	N	15	N	100	N	100	<20	20	<200	200	.06	10
I55R0270	15	<10	N	5	N	100	N	50	<20	20	<200	300	.02	10
I55R0280	15	10	N	5	N	100	N	50	<20	15	N	300	.04	10
I55R0290	20	20	N	10	N	100	N	100	<20	10	N	200	.11	10
I55R0300	50	20	N	10	N	100	N	100	<20	15	<200	200	.11	10
I55R0310	30	30	N	10	N	100	N	100	<20	10	N	150	.05	10
I55R0320	20	70	N	10	N	100	N	100	<20	10	N	150	.08	10
I55R0330	50	70	N	10	N	100	N	100	<20	10	N	150	.1	10
I55R0340	50	100	N	15	N	100	N	100	<20	10	200	100	.08	10
I55R0350	20	70	N	10	N	100	N	100	<20	10	<200	150	.08	10
I55R0360	20	100	N	15	N	100	N	100	<20	10	N	100	.11	10
I55R0370	20	100	N	10	N	100	N	100	<20	15	N	150	.11	10
I55R0380	15	50	N	10	N	100	N	100	<20	10	N	150	.06	10
I55R0390	20	50	N	10	N	100	N	100	<20	10	N	100	.08	10
I55R0400	20	30	N	10	N	100	N	100	<20	10	<200	100	.06	10
I55R0410	50	30	N	7	N	100	N	100	<20	10	<200	150	.08	10
I55R0425	30	30	N	10	N	100	N	100	<20	10	<200	100	.08	10

TABLE 28--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I56, 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
I56R0200	37 22 25	89 14 53	.15	5	.1	<.2	<.2	.1	N	N	N	50
I56R0210	37 22 25	89 14 53	.1	.1	.03	<.2	<.2	.02	N	N	N	50
I56R0220	37 22 25	89 14 53	.1	.05	.05	<.2	<.2	.02	N	N	N	70
I56R0230	37 22 25	89 14 53	.07	.07	.03	<.2	.02	.015	N	N	N	30
I56R0240	37 22 25	89 14 53	.07	.1	.03	<.2	.02	.02	N	N	N	30
I56R0250	37 22 25	89 14 53	.05	5	.03	<.2	<.2	.03	N	N	N	70
I56R0260	37 22 25	89 14 53	<.05	.3	.03	<.2	.02	.01	N	N	N	30
I56R0270	37 22 25	89 14 53	<.05	5	.02	<.2	.02	.007	<.5	N	N	20
I56R0280	37 22 25	89 14 53	<.05	5	.02	<.2	<.2	.01	.5	200	N	30
I56R0290	37 22 25	89 14 53	<.05	.5	.02	<.2	.02	.007	.5	N	N	30
I56R0300	37 22 25	89 14 53	<.05	1	.02	<.2	.02	.005	<.5	N	N	30
I56R0305	37 22 25	89 14 53	.05	1	.03	<.2	<.2	.015	<.5	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I56R0200	500	1.5	N	N	<10	15	15	10	N	N	1,000	<5	N
I56R0210	20	N	N	N	N	10	<5	<5	N	N	<10	<5	N
I56R0220	100	N	N	N	N	<10	<5	<5	N	N	<10	<5	N
I56R0230	N	N	N	N	N	<10	100	<5	N	N	<10	<5	N
I56R0240	20	N	N	N	N	<10	<5	<5	N	N	<10	<5	N
I56R0250	20	1.5	N	N	N	<10	7	5	N	N	<10	<5	N
I56R0260	<20	N	N	N	N	<10	50	<5	N	N	<10	<5	N
I56R0270	N	1	<10	N	N	<10	<5	5	N	N	<10	<5	N
I56R0280	20	1	<10	N	N	<10	5	5	N	N	<10	<5	N
I56R0290	N	N	<10	N	N	<10	<5	<5	N	N	<10	<5	N
I56R0300	20	N	10	N	N	<10	<5	<5	N	N	<10	<5	N
I56R0305	20	N	N	N	N	<10	<5	<5	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 #
I56R0200	30	<10	N	5	N	N	N	100	<20	<10	300	100	.01	7
I56R0210	<5	<10	N	N	N	N	N	10	<20	N	<200	<10	<.01	7
I56R0220	<5	<10	N	N	N	N	N	10	<20	N	N	20	.01	7
I56R0230	<5	<10	N	N	N	N	N	20	<20	N	N	<10	.01	7
I56R0240	5	<10	N	N	N	N	N	30	<20	N	N	N	.02	7
I56R0250	20	<10	N	N	N	N	N	100	<20	N	200	50	.02	7
I56R0260	<5	<10	N	N	N	N	N	50	<20	N	<200	10	.01	7
I56R0270	7	<10	N	N	N	N	N	50	<20	N	200	N	.02	7
I56R0280	7	<10	N	N	N	N	N	50	<20	N	300	N	.01	7
I56R0290	5	<10	N	N	N	N	N	30	<20	N	<200	N	.01	7
I56R0300	<5	<10	N	N	N	N	N	50	<20	N	500	N	.01	7
I56R0305	5	<10	N	N	N	N	N	20	<20	N	N	N	.01	7

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I57, 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
I57R0050	37 35 28	89 23 35	.05	.5	.05	<.2	<.2	.07	N	N	N	30
I57R0060	37 35 28	89 23 35	<.05	.07	.03	<.2	<.2	.03	N	N	N	30
I57R0070	37 35 28	89 23 35	.05	1	.05	<.2	<.2	.1	N	N	N	30
I57R0080	37 35 28	89 23 35	.05	.2	.07	<.2	<.2	.15	N	N	N	30
I57R0090	37 35 28	89 23 35	.05	.15	.05	<.2	<.2	.07	N	N	N	30
I57R0100	37 35 28	89 23 35	.05	.07	.05	<.2	<.2	.05	N	N	N	30
I57R0110	37 35 28	89 23 35	.05	.07	.05	<.2	<.2	.05	N	N	N	30
I57R0120	37 35 28	89 23 35	.1	.07	.03	<.2	<.2	.03	N	N	N	30
I57R0130	37 35 28	89 23 35	.07	<.05	.03	<.2	<.2	.015	N	N	N	50
I57R0140	37 35 28	89 23 35	.07	.15	.03	<.2	<.2	.015	N	N	N	20
I57R0150	37 35 28	89 23 35	.07	.07	.03	<.2	<.2	.02	N	N	N	20
I57R0160	37 35 28	89 23 35	<.05	.1	.03	<.2	<.2	.01	N	N	N	20
I57R0170	37 35 28	89 23 35	.07	.15	.03	<.2	<.2	.015	N	N	N	20
I57R0180	37 35 28	89 23 35	.1	.1	.03	<.2	<.2	.02	N	N	N	50
I57R0190	37 35 28	89 23 35	.07	.07	.03	<.2	<.2	.01	N	N	N	50
I57R0200	37 35 28	89 23 35	.2	.07	.03	<.2	<.2	.01	N	N	N	50
I57R0210	37 35 28	89 23 35	.15	.05	.03	<.2	<.2	.005	N	N	N	70
I57R0220	37 35 28	89 23 35	.07	.05	.02	<.2	<.2	.007	N	N	N	100
I57R0230	37 35 28	89 23 35	.07	.1	.02	<.2	<.2	.005	N	N	N	100
I57R0240	37 35 28	89 23 35	.07	.2	<.02	<.2	<.2	.005	N	N	N	50
I57R0250	37 35 28	89 23 35	.05	.1	<.02	<.2	<.2	.007	N	N	N	100
I57R0260	37 35 28	89 23 35	.05	.1	<.02	<.2	<.2	.005	N	N	N	100
I57R0270	37 35 28	89 23 35	.05	.07	<.02	<.2	<.2	.007	N	N	N	50
I57R0280	37 35 28	89 23 35	.05	.05	<.02	<.2	<.2	.005	N	N	N	100
I57R0290	37 35 28	89 23 35	.05	<.05	<.02	<.2	<.2	.005	N	N	N	70
I57R0300	37 35 28	89 23 35	.05	.07	<.02	<.2	<.2	.005	N	N	N	50
I57R0310	37 35 28	89 23 35	.05	.07	.03	<.2	<.2	.007	N	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I57R0050	300	<1	N	N	N	20	<5	<5	N	N	100	<5	N
I57R0060	100	<1	N	N	N	10	<5	<5	N	N	10	<5	N
I57R0070	300	<1	N	N	N	20	<5	5	N	N	50	<5	N
I57R0080	200	<1	N	N	N	10	<5	<5	N	N	20	<5	N
I57R0090	50	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0100	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0110	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0120	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0130	20	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0140	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0150	20	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0160	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0170	50	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0180	30	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0190	<20	<1	N	N	N	10	30	<5	N	N	10	<5	N
I57R0200	<20	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0210	<20	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I57R0220	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0230	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0240	<20	<1	N	N	N	<10	<5	<5	N	N	50	<5	N
I57R0250	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0260	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0270	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0280	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0290	30	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0300	30	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I57R0310	30	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N

TABLE 29--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I57, 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 #
I57R0050	<5	<10	N	N	N	<100	N	20	<20	N	N	100	.01	10
I57R0060	<5	<10	N	N	N	<100	N	10	<20	N	N	10	<.01	10
I57R0070	<5	<10	N	N	N	<100	N	30	<20	N	N	150	<.01	10
I57R0080	<5	<10	N	N	N	<100	N	20	<20	N	N	200	.01	10
I57R0090	<5	<10	N	N	N	<100	N	15	<20	N	N	200	<.01	10
I57R0100	<5	<10	N	N	N	<100	N	10	<20	N	N	200	<.01	10
I57R0110	<5	<10	N	N	N	<100	N	10	<20	N	N	200	<.01	10
I57R0120	<5	<10	N	N	N	<100	N	10	<20	N	N	100	<.01	10
I57R0130	<5	<10	N	N	N	<100	N	10	<20	N	N	50	<.01	10
I57R0140	<5	<10	N	N	N	<100	N	10	<20	N	N	70	<.01	10
I57R0150	<5	<10	N	N	N	<100	N	10	<20	N	N	50	<.01	10
I57R0160	<5	<10	N	N	N	<100	N	10	<20	N	N	50	<.01	10
I57R0170	<5	<10	N	N	N	<100	N	10	<20	N	200	30	<.01	10
I57R0180	5	<10	N	N	N	<100	N	10	<20	N	N	<10	<.01	10
I57R0190	<5	<10	N	N	N	<100	N	10	<20	N	N	50	<.01	10
I57R0200	<5	<10	N	N	N	<100	N	10	<20	N	N	<10	<.01	10
I57R0210	<5	<10	N	N	N	<100	N	10	<20	N	N	10	<.01	10
I57R0220	<5	<10	N	N	N	<100	N	<10	<20	N	N	<10	<.01	10
I57R0230	7	<10	N	N	N	<100	N	<10	<20	N	N	20	<.01	10
I57R0240	<5	<10	N	N	N	<100	N	<10	<20	N	N	N	<.01	10
I57R0250	<5	<10	N	N	N	<100	N	<10	<20	N	N	<10	<.01	10
I57R0260	<5	<10	N	N	N	<100	N	<10	<20	N	N	N	<.01	10
I57R0270	<5	<10	N	N	N	<100	N	10	<20	N	N	15	<.01	10
I57R0280	<5	<10	N	N	N	<100	N	10	<20	N	N	<10	<.01	10
I57R0290	<5	<10	N	N	N	<100	N	10	<20	N	N	<10	<.01	10
I57R0300	<5	<10	N	N	N	<100	N	<10	<20	N	N	<10	<.01	10
I57R0310	5	<10	N	N	N	<100	N	<10	<20	N	N	<10	<.01	10

TABLE 30--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I58, 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
I58R0105	37 39 19	89 18 22	.5	3	.7	<.2	<.2	.5	3	N	N	100
I58R0120	37 39 19	89 18 22	.3	2	.3	<.2	<.2	.2	N	N	N	70
I58R0125	37 39 19	89 18 22	.2	2	.3	<.2	<.2	.3	N	N	N	70
I58R0140	37 39 19	89 18 22	.3	.7	.1	<.2	<.2	.1	N	N	N	100
I58R0150	37 39 19	89 18 22	.2	2	.3	<.2	<.2	.3	N	N	N	70
I58R0165	37 39 19	89 18 22	.3	3	.5	<.2	<.2	.5	.5	N	N	100
I58R0180	37 39 19	89 18 22	.5	3	.5	<.2	<.2	.5	<.5	N	N	100
I58R0195	37 39 19	89 18 22	.3	2	.2	<.2	<.2	.3	N	N	N	50
I58R0225	37 39 19	89 18 22	.2	5	.3	<.2	<.2	.2	N	N	N	100
I58R0230	37 39 19	89 18 22	.07	.7	.7	.2	<.2	.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
I58R0105	200	1	N	N	<10	70	100	<5	N	N	50	10	N
I58R0120	200	<1	N	N	N	15	50	5	N	N	50	5	N
I58R0125	200	N	N	N	N	15	20	5	N	N	20	7	N
I58R0140	100	N	N	N	N	10	15	<5	N	N	10	<5	N
I58R0150	150	<1	N	N	N	20	30	<5	N	N	30	<5	N
I58R0165	300	1	N	N	N	70	10	5	N	N	30	N	N
I58R0180	200	<1	N	N	N	50	50	5	N	N	700	<5	N
I58R0195	150	<1	N	N	N	20	50	<5	N	N	30	<5	N
I58R0225	150	<1	N	N	N	20	50	5	N	N	70	N	N
I58R0230	300	1	N	N	15	50	50	10	N	N	150	N	<20

Sample	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	Th-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	F-pct. ise	Form #
I58R0105	150	15	N	5	N	<100	N	150	<20	20	<200	150	.1	7
I58R0120	20	<10	N	<5	N	<100	N	50	<20	N	700	100	.03	7
I58R0125	20	<10	N	N	N	<100	N	50	<20	N	300	100	.05	7
I58R0140	7	<10	N	N	N	<100	N	20	<20	N	<200	<10	.02	7
I58R0150	30	<10	N	<5	N	<100	N	70	<20	N	<200	100	.06	7
I58R0165	7	<10	N	<5	N	<100	N	150	<20	<10	<200	300	.1	7
I58R0180	15	<10	N	<5	N	<100	N	150	<20	N	200	150	.05	7
I58R0195	15	<10	N	N	N	<100	N	200	<20	N	<200	100	.08	7
I58R0225	50	<10	N	<5	N	<100	N	100	<20	N	<200	50	.05	7
I58R0230	150	<10	N	10	N	<100	N	150	<20	20	<200	100	.13	11

TABLE 31--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I59, 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
I59R0070	37 20 22	89 10 41	.2	.07	.05	<.2	<.2	.03	N	N	N	50
I59R0090	37 20 22	89 10 41	.3	.5	.1	<.2	<.2	.07	.5	N	N	50
I59R0120	37 20 22	89 10 41	1.5	.3	.1	<.2	<.2	.1	<.5	N	N	70
I59R0130	37 20 22	89 10 41	.3	2	.05	<.2	<.2	.03	<.5	N	N	50
I59R0180	37 20 22	89 10 41	.7	3	.3	<.2	<.2	.5	<.5	N	N	100
I59R0195	37 20 22	89 10 41	1.5	1	.3	<.2	<.2	.7	<.5	N	N	100
I59R0270	37 20 22	89 10 41	1.5	.7	.15	<.2	<.2	.2	1	N	N	100

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I59R0070	150	N	N	N	N	20	20	<5	N	N	20	<5	N
I59R0090	150	<1	N	N	N	70	7	5	N	N	20	<5	N
I59R0120	200	<1	N	N	N	30	5	5	N	N	20	<5	N
I59R0130	500	1	N	N	20	50	10	<5	N	N	1,500	<5	N
I59R0180	300	1	N	100	20	100	70	15	N	N	150	<5	N
I59R0195	200	1	N	N	<10	70	20	10	N	N	50	7	N
I59R0270	200	1	N	50	<10	70	15	10	N	N	50	<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 #
I59R0070	5	<10	N	N	N	100	N	15	<20	N	N	30	<.01	2
I59R0090	15	<10	N	<5	N	100	N	50	<20	N	<200	30	.02	2
I59R0120	15	<10	N	<5	N	150	N	30	<20	N	<200	50	.08	2
I59R0130	15	<10	N	<5	N	150	N	50	<20	N	<200	50	<.01	2
I59R0180	70	30	N	7	N	150	N	70	<20	N	7,000	200	.23	2
I59R0195	50	<10	N	7	N	150	N	70	<20	N	<200	200	.17	2
I59R0270	30	15	N	<5	N	150	N	50	<20	N	1,500	70	.2	2

TABLE 32--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I60, 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
I60R0040	37 28 3	89 16 53	.1	3	.03	<.2	<.2	.05	N	N	N	70
I60R0195	37 28 3	89 16 53	.15	5	.03	<.2	<.2	.015	.5	N	N	50
I60R0235	37 28 3	89 16 53	.2	7	.1	<.2	<.2	.1	N	N	N	70
I60R0250	37 28 3	89 16 53	.3	10	.3	<.2	<.2	.2	N	N	N	100
I60R0260	37 28 3	89 16 53	.2	5	.2	<.2	<.2	.2	N	N	N	100
I60R0270	37 28 3	89 16 53	.2	3	.3	<.2	<.2	.3	N	N	N	100
I60R0280	37 28 3	89 16 53	.15	7	.5	<.2	<.2	.2	N	N	N	100
I60R0290	37 28 3	89 16 53	.07	5	.5	<.2	<.2	.3	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
I60R0040	200	<1	N	N	<10	50	5	5	N	N	70	<5	N
I60R0195	70	<1	N	N	<10	20	7	5	N	N	200	<5	N
I60R0235	100	<1	N	N	<10	20	15	7	N	N	20	5	N
I60R0250	150	<1	N	N	<10	70	70	7	N	N	30	10	N
I60R0260	200	<1	N	N	<10	100	70	7	N	N	30	15	N
I60R0270	700	<1	N	N	<10	70	50	7	N	N	50	10	N
I60R0280	150	1	N	N	<10	100	50	5	N	N	150	7	N
I60R0290	300	2	N	N	10	150	30	10	N	<50	150	<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 #
I60R0040	10	<10	N	N	N	<100	N	100	<20	N	<200	30	<.01	7
I60R0195	7	<10	N	N	N	<100	N	50	<20	N	200	N	<.01	7
I60R0235	30	<10	N	N	N	<100	N	70	<20	<10	500	20	.05	7
I60R0250	100	<10	N	<5	N	<100	N	150	<20	N	300	100	.07	7
I60R0260	70	<10	N	5	N	<100	N	150	<20	N	200	100	.08	7
I60R0270	70	<10	N	5	N	<100	N	200	<20	<10	200	150	.04	7
I60R0280	50	<10	N	<5	N	<100	N	150	<20	N	N	100	.05	7
I60R0290	50	<10	N	7	N	<100	N	200	<20	15	N	200	.07	11

TABLE 33--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I61, 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
I61R0165	37 27 26	89 16 55	.2	2	.05	<.2	<.2	.05	.5	N	N	50
I61R0195	37 27 26	89 16 55	.15	1	.15	<.2	<.2	.15	<.5	N	N	70
I61R0205	37 27 26	89 16 55	.2	1.5	.2	<.2	<.2	.2	<.5	N	N	50
I61R0215	37 27 26	89 16 55	.15	1.5	.2	<.2	<.2	.3	N	N	N	100
I61R0225	37 27 26	89 16 55	.15	1	.1	<.2	<.2	.15	N	N	N	50
I61R0235	37 27 26	89 16 55	.3	3	.3	<.2	<.2	.07	N	N	N	100
I61R0240	37 27 26	89 16 55	.05	2	.7	<.2	<.2	.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
I61R0165	100	1	N	N	<10	20	5	5	N	N	200	<5	N
I61R0195	150	1	N	N	<10	30	20	5	N	N	30	5	N
I61R0205	150	1	N	N	<10	50	30	5	N	N	30	10	N
I61R0215	200	1	N	N	<10	30	30	7	N	N	30	10	N
I61R0225	100	1	N	N	<10	30	20	5	N	N	20	5	N
I61R0235	100	1.5	N	N	N	70	20	7	N	N	100	<5	N
I61R0240	300	2	N	N	15	50	30	10	N	<50	200	<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 #
I61R0165	7	<10	N	N	N	N	N	20	<20	N	200	30	<.01	7
I61R0195	30	<10	N	<5	N	N	N	50	<20	N	200	50	.03	7
I61R0205	70	<10	N	<5	N	N	N	100	<20	N	<200	100	.05	7
I61R0215	50	<10	N	5	N	N	N	100	<20	N	<200	150	.06	7
I61R0225	15	<10	N	<5	N	<100	N	70	<20	N	N	70	.03	7
I61R0235	20	<10	N	<5	N	<100	N	100	<20	N	N	50	.06	7
I61R0240	70	<10	N	10	N	<100	N	150	<20	10	N	150	.13	11

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO I62, 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
I62R1860	37 36 21	88 39 36	<.05	.05	.07	<.2	<.2	.5	<.5	N	N	50
I62R1870	37 36 21	88 39 36	.05	.15	.07	<.2	<.2	.5	<.5	N	N	70
I62R1880	37 36 21	88 39 36	.05	.15	.1	.2	<.2	.5	<.5	N	N	70
I62R1895	37 36 21	88 39 36	.05	.15	.1	.2	<.2	.3	<.5	N	N	50
I62R1905	37 36 21	88 39 36	.05	.07	.1	.5	<.2	.5	<.5	N	N	50
I62R1915	37 36 21	88 39 36	<.05	1	.2	.2	<.2	.3	<.5	N	N	70
I62R1935	37 36 21	88 39 36	.07	2	.7	.3	<.2	.5	<.5	N	N	150
I62R1955	37 36 21	88 39 36	.07	5	1	.2	<.2	.7	<.5	N	N	200
I62R1965	37 36 21	88 39 36	.05	5	.7	<.2	<.2	.5	<.5	N	N	200
I62R1975	37 36 21	88 39 36	.05	1.5	.7	<.2	<.2	.3	<.5	N	N	200
I62R1985	37 36 21	88 39 36	.07	7	1	.2	<.2	.7	<.5	N	N	200
I62R2005	37 36 21	88 39 36	.05	1.5	.7	.3	<.2	.7	<.5	N	N	150
I62R2015	37 36 21	88 39 36	<.05	2	1	.2	<.2	1	<.5	N	N	150
I62R2030	37 36 21	88 39 36	.07	2	.7	.2	<.2	.7	<.5	N	N	150
I62R2040	37 36 21	88 39 36	<.05	.5	.5	<.2	<.2	.3	<.5	N	N	70
I62R2050	37 36 21	88 39 36	<.05	.7	.5	.2	<.2	.3	<.5	N	N	70
I62R2095	37 36 21	88 39 36	.07	2	.7	.2	<.2	.5	<.5	N	N	150
I62R2110	37 36 21	88 39 36	<.05	.2	.2	<.2	<.2	.3	<.5	N	N	50
I62R2150	37 36 21	88 39 36	<.05	.7	.5	<.2	<.2	.5	<.5	N	N	70
I62R2235	37 36 21	88 39 36	.2	.5	.3	<.2	<.2	.3	<.5	N	N	50
I62R2280	37 36 21	88 39 36	.05	.3	.07	<.2	<.2	.2	<.5	N	N	50
I62R2330	37 36 21	88 39 36	.15	.3	.1	<.2	<.2	.15	<.5	N	N	50

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I62R1860	150	1	N	N	<10	100	<5	5	N	<50	<10	<5	20
I62R1870	1,000	1	N	N	<10	50	<5	5	N	<50	<10	<5	20
I62R1880	300	1	N	N	<10	70	<5	5	N	<50	<10	<5	<20
I62R1895	300	1	N	N	15	50	<5	5	N	<50	<10	<5	N
I62R1905	200	1	N	N	<10	50	70	5	N	<50	<10	<5	N
I62R1915	300	1.5	N	N	10	50	<5	7	N	<50	<10	<5	<20
I62R1935	700	1.5	N	N	10	70	20	20	N	<50	20	<5	<20
I62R1955	200	1.5	N	N	10	100	15	30	N	<50	30	<5	20
I62R1965	150	1.5	N	N	15	100	<5	20	N	<50	30	<5	<20
I62R1975	100	2	N	N	N	70	15	15	N	<50	20	<5	N
I62R1985	150	2	N	N	10	100	20	30	N	<50	30	<5	N
I62R2005	200	1.5	N	N	10	70	30	15	N	<50	30	<5	<20
I62R2015	200	1.5	N	N	10	70	20	15	N	<50	50	<5	<20
I62R2030	300	1.5	N	N	<10	70	15	10	N	<50	20	<5	<20
I62R2040	200	1	N	N	<10	50	7	5	N	<50	10	<5	N
I62R2050	200	1	N	N	<10	50	<5	7	N	<50	15	<5	N
I62R2095	150	1.5	N	N	15	100	15	15	N	<50	20	<5	N
I62R2110	200	<1	N	N	<10	50	5	5	N	N	<10	<5	N
I62R2150	200	1	N	N	<10	70	5	7	N	N	10	<5	N
I62R2235	>5,000	1	N	N	<10	50	10	7	N	N	10	<5	N
I62R2280	1,000	<1	N	N	<10	20	5	5	N	N	<10	<5	N
I62R2330	>5,000	<1	N	N	<10	20	5	5	N	N	<10	<5	N

TABLE 34--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO I62, 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 #
I62R1860	<5	<10	N	<5	N	200	N	15	<20	<10	N	1,000	.02	5
I62R1870	5	<10	N	<5	N	200	N	30	<20	<10	N	700	.02	5
I62R1880	10	<10	N	<5	N	150	N	30	<20	<10	N	500	.03	5
I62R1895	15	<10	N	<5	N	150	N	30	<20	<10	N	300	.02	5
I62R1905	7	<10	N	<5	N	150	N	30	<20	<10	N	500	.02	5
I62R1915	20	<10	N	5	N	150	N	30	<20	<10	N	200	.05	5
I62R1935	30	<10	N	10	N	100	N	70	<20	10	N	200	.12	5
I62R1955	30	<10	N	15	N	100	N	100	<20	15	N	300	.12	5
I62R1965	30	<10	N	15	N	700	N	100	<20	15	N	100	.09	5
I62R1975	15	<10	N	10	N	200	N	70	<20	10	N	100	.12	5
I62R1985	30	<10	N	15	N	100	N	100	<20	15	<200	150	.12	5
I62R2005	20	<10	N	10	N	150	N	100	<20	20	<200	200	.08	5
I62R2015	20	<10	N	15	N	<100	N	100	<20	20	N	300	.08	5
I62R2030	20	<10	N	10	N	200	N	100	<20	15	N	200	.08	6
I62R2040	7	<10	N	5	N	150	N	50	<20	<10	N	200	.05	6
I62R2050	7	<10	N	7	N	100	N	70	<20	10	N	200	.05	6
I62R2095	20	<10	N	10	N	100	N	100	<20	15	N	200	.12	6
I62R2110	7	<10	N	<5	N	100	N	30	<20	<10	N	200	.04	6
I62R2150	20	<10	N	5	N	100	N	70	<20	10	N	200	.06	6
I62R2235	20	<10	N	5	N	2,000	N	50	<20	<10	500	200	.1	6
I62R2280	10	<10	N	<5	N	1,500	N	20	<20	<10	200	100	.03	6
I62R2330	10	<10	N	<5	N	1,500	N	20	<20	<10	700	100	.04	6

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6300360	37 35 39	88 30 39	<.05	3	.5	<.2	<.2	.7	N	N	N	200
I6300380	37 35 39	88 30 39	<.05	5	.5	<.2	<.2	1	N	N	N	200
I6300410	37 35 39	88 30 39	<.05	3	.7	.2	<.2	1	N	N	N	200
I6300420	37 35 39	88 30 39	<.05	5	.7	.3	<.2	1	N	N	N	200
I6300440	37 35 39	88 30 39	.05	3	.7	.2	<.2	.7	N	N	N	200
I6300450	37 35 39	88 30 39	.05	3	.5	.2	<.2	.7	N	N	N	200
I6300470	37 35 39	88 30 39	.05	5	.7	.2	<.2	1	N	N	N	200
I6300480	37 35 39	88 30 39	.1	3	.5	.2	<.2	1	N	N	N	200
I6300490	37 35 39	88 30 39	.05	2	.5	.3	<.2	1	N	N	N	200
I6300500	37 35 39	88 30 39	.05	5	.5	.3	<.2	1	N	N	N	200
I6300510	37 35 39	88 30 39	<.05	5	.5	.2	<.2	1	N	N	N	200
I6300520	37 35 39	88 30 39	<.05	5	.5	.3	<.2	.7	N	N	N	200
I6300540	37 35 39	88 30 39	<.05	3	.5	.3	<.2	1	N	N	N	200
I6300560	37 35 39	88 30 39	.05	3	.5	.2	<.2	.7	N	N	N	200
I6300580	37 35 39	88 30 39	.1	3	.5	.2	<.2	.7	N	N	N	200
I6300600	37 35 39	88 30 39	<.05	5	.7	.2	<.2	1	N	N	N	200
I6300610	37 35 39	88 30 39	.07	5	.7	.2	<.2	1	N	N	N	200
I6300620	37 35 39	88 30 39	<.05	7	1	.2	<.2	.7	N	N	N	200
I6300630	37 35 39	88 30 39	.1	5	.7	.3	<.2	1	N	N	N	200
I6300650	37 35 39	88 30 39	.1	3	.5	.3	<.2	1	N	N	N	150
I6300660	37 35 39	88 30 39	.1	3	.5	.3	<.2	.7	N	N	N	150
I6300680	37 35 39	88 30 39	<.05	5	.7	.3	<.2	1	N	N	N	150
I6300700	37 35 39	88 30 39	<.05	7	.7	.2	<.2	1	N	N	N	150
I6300710	37 35 39	88 30 39	.07	3	.5	.2	<.2	1	N	N	N	150
I6300730	37 35 39	88 30 39	<.05	3	.5	.2	<.2	1	N	N	N	150
I6300750	37 35 39	88 30 39	<.05	3	.3	.2	<.2	1	N	N	N	150
I6300760	37 35 39	88 30 39	<.05	.5	.2	<.2	<.2	.5	N	N	N	50
I6300820	37 35 39	88 30 39	<.05	5	.5	<.2	<.2	1	N	N	N	200
I6300840	37 35 39	88 30 39	.05	5	.3	.2	<.2	1	N	N	N	150
I6300850	37 35 39	88 30 39	.07	5	.7	.3	<.2	1	N	N	N	200
I6300860	37 35 39	88 30 39	.05	5	.7	.2	<.2	1	N	N	N	200
I6300870	37 35 39	88 30 39	.07	5	.5	.2	<.2	.7	N	N	N	200
I6300900	37 35 39	88 30 39	.05	7	.5	.2	<.2	.5	N	N	N	200
I6300910	37 35 39	88 30 39	<.05	5	.7	<.2	<.2	1	N	N	N	200
I6300940	37 35 39	88 30 39	<.05	.3	.15	.2	<.2	.7	N	N	N	100
I6300960	37 35 39	88 30 39	<.05	2	.7	.2	<.2	1	N	N	N	150
I6300980	37 35 39	88 30 39	.07	.5	.2	.2	<.2	.5	N	N	N	100
I6301000	37 35 39	88 30 39	<.05	3	.7	.2	<.2	1	N	N	N	200
I6301010	37 35 39	88 30 39	<.05	5	.7	.2	<.2	1	N	N	N	200
I6301050	37 35 39	88 30 39	.1	.2	.5	<.2	<.2	.5	N	N	N	200
I6301080	37 35 39	88 30 39	.1	1	.3	<.2	<.2	.7	N	N	N	70
I6301110	37 35 39	88 30 39	.1	5	1	.2	<.2	1	<.5	N	N	150
I6301130	37 35 39	88 30 39	.1	3	.7	.3	<.2	1	N	N	N	150
I6301140	37 35 39	88 30 39	.15	1	.5	<.2	<.2	1	N	N	N	150
I6301160	37 35 39	88 30 39	<.05	.2	.1	<.2	<.2	.5	N	N	N	50
I6301190	37 35 39	88 30 39	.05	.7	.3	.2	<.2	>1	N	N	N	200
I6301200	37 35 39	88 30 39	<.05	1	.3	<.2	<.2	1	<.5	N	N	150
I6301220	37 35 39	88 30 39	<.05	.07	.1	<.2	<.2	.3	N	N	N	30
I6301250	37 35 39	88 30 39	<.05	5	.7	<.2	<.2	.7	N	N	N	200
I6301270	37 35 39	88 30 39	.05	5	.7	.2	<.2	.7	N	N	N	300
I6301290	37 35 39	88 30 39	.05	7	1	.2	<.2	1	N	N	N	300
I6301310	37 35 39	88 30 39	<.05	3	.7	.2	<.2	1	N	N	N	150
I6301330	37 35 39	88 30 39	<.05	5	.7	.2	<.2	1	N	N	N	150
I6301350	37 35 39	88 30 39	<.05	5	.7	.2	<.2	1	N	N	N	150
I6301370	37 35 39	88 30 39	<.05	7	.5	.2	<.2	1	N	N	N	200
I6301390	37 35 39	88 30 39	<.05	5	.5	.3	<.2	1	N	N	N	150
I6301410	37 35 39	88 30 39	<.05	.5	.2	.3	<.2	.7	.5	N	N	70
I6301450	37 35 39	88 30 39	.05	.3	.2	.3	<.2	1	2	N	N	150
I6301470	37 35 39	88 30 39	<.05	1.5	.5	.2	<.2	1	N	N	N	150
I6301490	37 35 39	88 30 39	.05	.7	.5	.2	<.2	1	N	N	N	150

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6300360	300	2	N	N	20	100	150	30	N	50	50	<5	<20
I6300380	200	3	N	N	20	150	100	50	N	70	70	<5	<20
I6300410	500	2	N	N	15	150	30	50	N	50	50	<5	<20
I6300420	500	2	N	N	15	150	70	50	N	50	50	<5	<20
I6300440	300	2	N	N	10	150	50	30	N	<50	50	10	N
I6300450	500	2	N	N	15	100	50	20	N	<50	30	5	N
I6300470	150	2	N	N	30	100	50	50	N	50	100	<5	<20
I6300480	200	2	N	N	20	150	30	30	N	N	50	<5	<20
I6300490	1,000	3	N	N	15	150	70	50	N	<50	100	5	<20
I6300500	1,000	2	N	N	20	150	100	30	N	50	150	70	<20
I6300510	200	2	N	N	20	100	15	20	N	50	150	<5	<20
I6300520	200	1.5	N	N	20	100	50	50	N	70	70	<5	<20
I6300540	200	1.5	N	N	15	150	30	50	N	70	100	<5	<20
I6300560	200	1.5	N	N	15	100	50	30	N	50	50	<5	<20
I6300580	700	2	N	N	15	100	70	20	N	70	70	10	<20
I6300600	200	2	N	N	15	150	20	30	N	50	150	<5	<20
I6300610	200	2	N	N	20	100	50	20	N	50	200	<5	<20
I6300620	200	2	N	N	20	100	30	50	N	50	70	<5	N
I6300630	200	1.5	N	N	10	100	20	20	N	50	100	<5	<20
I6300650	200	1	N	N	15	100	30	15	N	N	300	5	N
I6300660	700	1	N	N	15	100	30	15	N	<50	200	<5	<20
I6300680	300	1.5	N	N	20	100	70	15	N	50	100	<5	<20
I6300700	300	1.5	N	N	20	100	100	20	N	50	70	<5	<20
I6300710	300	1.5	N	N	10	100	30	20	N	<50	100	<5	<20
I6300730	500	1.5	N	N	10	100	30	20	N	50	30	<5	<20
I6300750	300	1.5	N	N	20	100	70	30	N	50	30	<5	<20
I6300760	200	<1	N	N	10	70	10	7	N	50	<10	<5	<20
I6300820	1,000	2	N	N	20	100	100	50	N	50	50	<5	<20
I6300840	300	2	N	N	15	100	30	30	N	<50	50	7	<20
I6300850	200	2	N	N	20	100	150	50	N	<50	70	<5	<20
I6300860	300	2	N	N	20	100	30	15	N	<50	150	<5	<20
I6300870	200	2	N	N	15	100	20	50	N	50	70	7	<20
I6300900	1,000	1.5	N	N	20	100	100	30	N	<50	150	20	<20
I6300910	700	2	N	N	20	100	70	20	N	<50	50	<5	<20
I6300940	100	<1	N	N	<10	50	7	10	N	50	10	<5	<20
I6300960	150	1.5	N	N	15	100	20	30	N	<50	50	<5	<20
I6300980	200	1	N	N	15	50	30	10	N	<50	20	<5	<20
I6301000	150	1.5	N	N	20	100	30	20	N	50	70	<5	<20
I6301010	300	1.5	N	N	20	100	50	20	N	50	50	<5	<20
I6301050	100	1.5	N	N	<10	70	<5	<5	N	50	20	<5	20
I6301080	50	1	N	N	<10	70	<5	5	N	<50	15	<5	20
I6301110	2,000	2	N	N	20	150	50	15	N	50	50	5	<20
I6301130	>5,000	3	N	N	10	150	70	30	N	50	30	<5	N
I6301140	200	3	N	N	10	100	7	10	N	<50	15	<5	<20
I6301160	50	<1	N	N	N	50	<5	<5	N	<50	10	<5	<20
I6301190	200	1.5	N	N	10	50	30	10	N	50	10	<5	20
I6301200	150	1.5	N	N	<10	50	10	10	N	<50	10	<5	30
I6301220	30	<1	N	N	N	20	<5	<5	N	<50	<10	<5	<20
I6301250	1,000	2	N	N	10	150	50	15	N	<50	50	<5	N
I6301270	300	2	N	N	10	200	50	15	N	<50	50	<5	<20
I6301290	500	2	N	N	20	150	100	20	N	50	50	<5	<20
I6301310	150	1.5	N	N	10	100	100	30	N	50	30	<5	<20
I6301330	700	2	N	N	15	150	50	30	N	50	50	<5	<20
I6301350	200	2	N	N	15	150	30	50	N	70	50	<5	<20
I6301370	150	2	N	N	50	150	50	30	N	70	70	<5	<20
I6301390	300	3	N	N	10	100	20	50	N	50	50	<5	<20
I6301410	500	<1	N	N	<10	70	<5	15	N	<50	15	<5	N
I6301450	700	1	N	N	<10	30	30	10	N	<50	20	<5	<20
I6301470	200	1	N	N	10	100	20	15	N	<50	20	<5	<20
I6301490	300	1	N	N	10	100	20	15	N	<50	10	<5	<20

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6300360	50	20	N	15	30	300	N	150	150	20	<200	150	.04	3
I6300380	70	<10	N	20	N	300	N	200	150	30	<200	150	.04	3
I6300410	50	<10	N	15	N	300	N	150	<20	30	<200	150	.06	3
I6300420	50	20	N	15	N	300	N	150	<20	20	<200	200	.06	3
I6300440	50	20	N	10	N	200	N	150	<20	10	<200	150	.14	3
I6300450	50	15	N	10	N	200	N	150	<20	15	<200	200	.1	3
I6300470	50	15	N	10	N	150	N	70	<20	20	N	150	.14	3
I6300480	50	20	N	10	N	150	N	150	<20	15	<200	200	.13	3
I6300490	50	100	N	15	N	200	N	100	<20	15	300	200	.17	3
I6300500	70	50	N	15	N	200	N	200	50	10	1,500	150	.18	3
I6300510	30	10	N	15	N	150	N	100	<20	20	<200	150	.08	3
I6300520	30	15	N	15	N	150	N	100	<20	20	<200	150	.08	3
I6300540	30	10	N	10	N	150	N	100	<20	20	<200	150	.06	3
I6300560	30	10	N	10	N	200	N	100	<20	15	<200	150	.09	3
I6300580	30	50	N	10	N	500	N	100	<20	20	1,000	200	.06	3
I6300600	50	15	N	15	N	150	N	100	<20	30	<200	150	.06	3
I6300610	50	10	N	15	N	150	N	100	<20	30	<200	150	.06	3
I6300620	70	10	N	15	N	150	N	150	<20	20	<200	150	.06	3
I6300630	50	10	N	10	N	150	N	100	<20	20	<200	300	.08	3
I6300650	30	20	N	10	N	150	N	100	<20	10	<200	200	.06	3
I6300660	30	30	N	7	N	150	N	100	<20	10	<200	500	.06	3
I6300680	50	10	N	10	N	150	N	150	<20	20	N	500	.04	3
I6300700	70	<10	N	15	N	150	N	150	<20	30	200	200	.04	3
I6300710	50	<10	N	10	N	150	N	100	<20	20	<200	300	.04	3
I6300730	50	<10	N	10	N	150	N	100	<20	20	<200	300	.06	3
I6300750	50	<10	N	15	N	200	N	100	<20	30	<200	300	.03	3
I6300760	20	<10	N	7	N	150	N	50	<20	20	<200	700	.03	3
I6300820	70	20	N	15	N	200	N	150	<20	15	<200	100	.11	3
I6300840	50	20	N	10	N	200	N	150	<20	10	500	150	.15	3
I6300850	50	<10	N	10	N	200	N	150	<20	15	N	150	.15	3
I6300860	70	<10	N	10	N	150	N	150	<20	30	N	500	.08	3
I6300870	50	30	N	10	N	200	N	100	<20	20	N	150	.11	3
I6300900	100	50	N	15	N	300	N	150	<20	10	300	150	.11	3
I6300910	70	10	N	15	N	200	N	150	<20	10	N	200	.09	3
I6300940	7	<10	N	5	N	200	N	50	<20	15	N	500	.03	3
I6300960	50	10	N	15	N	150	N	150	<20	20	<200	200	.06	3
I6300980	50	<10	N	5	N	200	N	70	<20	10	300	150	.05	3
I6301000	70	10	N	15	N	150	N	150	<20	30	N	200	.05	3
I6301010	70	<10	N	10	N	150	N	150	<20	30	N	200	.05	3
I6301050	10	10	N	5	N	150	N	50	20	10	N	500	.05	3
I6301080	7	<10	N	5	N	200	N	50	<20	15	N	1,000	.04	4
I6301110	100	50	N	10	N	200	N	200	<20	10	<200	500	.09	4
I6301130	50	15	N	10	N	200	N	200	<20	<10	<200	300	.11	4
I6301140	30	<10	N	7	N	200	N	100	<20	15	N	500	.07	4
I6301160	5	<10	N	<5	N	200	N	30	<20	<10	N	500	.02	4
I6301190	30	<10	N	10	N	200	N	100	<20	20	N	500	.04	4
I6301200	20	<10	N	7	N	200	N	100	<20	20	N	1,000	.04	4
I6301220	<5	<10	N	N	N	150	N	20	20	<10	N	300	.02	4
I6301250	100	10	N	10	N	100	N	150	<20	<10	300	200	.16	4
I6301270	100	<10	N	7	N	100	N	200	<20	<10	300	200	.2	4
I6301290	100	<10	N	15	N	200	N	200	<20	15	<200	200	.14	4
I6301310	50	<10	N	10	N	200	N	150	<20	20	N	200	.06	4
I6301330	70	<10	N	15	N	200	N	200	<20	20	N	200	.05	4
I6301350	70	<10	N	15	N	200	N	200	<20	20	N	200	.04	4
I6301370	100	<10	N	15	N	200	N	200	<20	30	N	300	.02	5
I6301390	50	<10	N	10	N	300	N	100	<20	30	N	200	.02	5
I6301410	20	<10	N	5	N	200	N	100	20	20	N	300	.02	5
I6301450	20	<10	N	5	N	300	N	100	<20	20	N	300	.02	5
I6301470	50	<10	N	7	N	300	N	100	<20	20	N	700	.03	5
I6301490	50	<10	N	5	N	300	N	100	<20	20	N	500	.03	5

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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
I6301510	37 35 39	88 30 39	<.05	.1	.2	<.2	<.2	1	N	N	N	100
I6301550	37 35 39	88 30 39	<.05	.3	.2	<.2	<.2	1	N	N	N	100
I6301560	37 35 39	88 30 39	<.05	.3	.2	<.2	<.2	.5	N	N	N	100
I6301580	37 35 39	88 30 39	<.05	.2	.1	<.2	<.2	.3	N	N	N	50
I6301590	37 35 39	88 30 39	<.05	5	.7	<.2	<.2	1	N	N	N	200
I6301610	37 35 39	88 30 39	<.05	.3	.3	<.2	<.2	1	N	N	N	100
I6301630	37 35 39	88 30 39	.05	.5	.5	.2	<.2	1	N	N	N	150
I6301650	37 35 39	88 30 39	<.05	2	.7	<.2	<.2	1	N	N	N	200
I6301670	37 35 39	88 30 39	<.05	3	.7	.2	<.2	1	N	N	N	200
I6301690	37 35 39	88 30 39	.05	2	.5	.2	<.2	1	N	N	N	200
I6301710	37 35 39	88 30 39	<.05	2	.3	.3	<.2	.7	N	N	N	150
I6301730	37 35 39	88 30 39	<.05	.7	.5	.3	<.2	1	N	N	N	200
I6301750	37 35 39	88 30 39	<.05	1	.3	.3	<.2	1	N	N	N	100
I6301770	37 35 39	88 30 39	<.05	.7	.7	.2	<.2	1	N	N	N	200
I6301790	37 35 39	88 30 39	<.05	1.5	.5	.2	<.2	1	N	N	N	200
I6301810	37 35 39	88 30 39	.1	1	.5	.2	<.2	.7	N	N	N	200
I6301820	37 35 39	88 30 39	<.05	1	.3	.2	<.2	1	N	N	N	200
I6301830	37 35 39	88 30 39	<.05	1	.3	.3	<.2	.5	N	N	N	200
I6301840	37 35 39	88 30 39	.07	3	.7	.2	<.2	1	N	N	N	200
I6301850	37 35 39	88 30 39	<.05	1	.7	.2	<.2	1	N	N	N	200
I6301870	37 35 39	88 30 39	<.05	5	1	.2	<.2	.7	N	N	N	200
I6301880	37 35 39	88 30 39	.15	3	.7	.2	<.2	.7	N	N	N	200
I6301900	37 35 39	88 30 39	.1	3	.5	.3	<.2	.7	N	N	N	200
I6301910	37 35 39	88 30 39	.2	3	.5	.3	<.2	.5	N	N	N	300
I6301920	37 35 39	88 30 39	.15	2	.3	.2	<.2	.3	N	N	N	200
I6301930	37 35 39	88 30 39	.1	.3	.2	<.2	<.2	.2	N	N	N	100
I6301940	37 35 39	88 30 39	.2	.5	.2	.2	<.2	.7	N	N	N	70
I6301950	37 35 39	88 30 39	.15	3	.7	.2	<.2	1	N	N	N	500
I6301960	37 35 39	88 30 39	.07	3	.7	.3	<.2	1	N	N	N	500
I6301970	37 35 39	88 30 39	.05	3	.5	.2	<.2	.7	N	N	N	500
I6301980	37 35 39	88 30 39	3	1	.3	.2	<.2	1	N	N	N	200
I6302000	37 35 39	88 30 39	.2	3	.5	.2	<.2	.5	N	N	N	200
I6302020	37 35 39	88 30 39	.05	3	.3	.3	<.2	.5	N	N	N	150
I6302030	37 35 39	88 30 39	1	2	.2	.7	<.2	.5	N	N	N	150
I6302040	37 35 39	88 30 39	.2	2	.1	1	<.2	.7	N	N	N	100
I6302060	37 35 39	88 30 39	.1	2	.5	1	<.2	.5	N	N	N	150
I6302070	37 35 39	88 30 39	.15	3	.3	1	<.2	.7	N	N	N	150
I6302080	37 35 39	88 30 39	.1	3	.2	1	<.2	.5	N	N	N	150
I6302090	37 35 39	88 30 39	.1	3	.5	.3	<.2	.7	N	N	N	300
I6302100	37 35 39	88 30 39	.1	2	.5	.3	<.2	.5	N	N	N	200
I6302120	37 35 39	88 30 39	.5	.7	.15	<.2	<.2	.3	N	N	N	100
I6302140	37 35 39	88 30 39	.2	.3	.15	<.2	<.2	.3	N	N	N	100
I6302150	37 35 39	88 30 39	.2	1	.5	.2	<.2	.7	N	N	N	200
I6302170	37 35 39	88 30 39	.5	2	.5	.3	<.2	.7	N	N	N	200
I6302190	37 35 39	88 30 39	1.5	1.5	.3	.2	<.2	.5	.7	N	N	200
I6302200	37 35 39	88 30 39	.15	3	.5	.5	<.2	1	N	N	N	200
I6302220	37 35 39	88 30 39	.7	.2	.15	<.2	<.2	.2	N	N	N	100
I6302240	37 35 39	88 30 39	.3	1	.3	.2	<.2	.5	N	N	N	150
I6302260	37 35 39	88 30 39	.2	.7	.3	.2	<.2	.3	N	N	N	100
I6302280	37 35 39	88 30 39	.5	.3	.2	<.2	<.2	.2	.5	N	N	100
I6302300	37 35 39	88 30 39	.5	3	.3	.5	<.2	.5	.5	N	N	150
I6302320	37 35 39	88 30 39	2	.7	.3	.3	<.2	.3	N	N	N	100
I6302340	37 35 39	88 30 39	2	.5	.5	.5	<.2	.5	N	N	N	100
I6302360	37 35 39	88 30 39	.07	5	.3	.7	<.2	.7	N	N	N	150
I6302380	37 35 39	88 30 39	.5	5	.5	.7	<.2	.7	N	N	N	200
I6302400	37 35 39	88 30 39	.5	3	.5	.3	<.2	.7	N	N	N	200
I6302420	37 35 39	88 30 39	.2	7	7	.7	<.2	1	.5	N	N	300
I6302440	37 35 39	88 30 39	.7	5	.5	.3	<.2	.7	.5	N	N	150
I6302460	37 35 39	88 30 39	.2	5	.7	.5	<.2	.7	<.5	N	N	200
I6302480	37 35 39	88 30 39	.1	5	.7	.5	<.2	.7	.7	N	N	200

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6301510	500	1.5	N	N	<10	150	7	5	N	50	<10	<5	30
I6301550	100	1.5	N	N	<10	100	5	7	N	50	10	<5	20
I6301560	70	1	N	N	<10	70	15	5	N	50	<10	<5	20
I6301580	20	<1	N	N	<10	20	<5	5	N	<50	10	<5	<20
I6301590	700	3	N	N	30	150	100	30	N	70	50	<5	20
I6301610	100	1	N	N	<10	70	15	10	N	<50	15	<5	20
I6301630	150	2	N	N	<10	70	7	15	N	<50	30	<5	<20
I6301650	150	3	N	N	15	100	50	30	N	50	50	<5	<20
I6301670	200	3	N	N	15	150	70	30	N	50	70	<5	<20
I6301690	150	2	N	N	15	150	70	20	N	<50	50	<5	<20
I6301710	150	2	N	N	<10	100	20	15	N	<50	20	<5	<20
I6301730	150	2	N	N	15	100	70	30	N	70	50	<5	<20
I6301750	150	1.5	N	N	<10	100	15	10	N	<50	30	<5	<20
I6301770	500	5	N	N	20	150	100	30	N	50	50	<5	<20
I6301790	700	3	N	N	15	150	30	15	N	<50	50	<5	<20
I6301810	150	3	N	N	15	100	50	10	N	N	30	<5	<20
I6301820	300	2	N	N	<10	70	20	7	N	N	20	<5	20
I6301830	200	1.5	N	N	<10	70	20	5	N	N	15	<5	20
I6301840	200	2	N	N	15	100	70	20	N	<50	20	<5	<20
I6301850	200	2	N	N	15	100	100	20	N	<50	30	<5	<20
I6301870	2,000	2	N	N	15	150	30	50	N	50	30	<5	<20
I6301880	200	2	N	N	15	150	20	30	N	50	50	<5	20
I6301900	200	2	N	N	15	100	20	15	N	50	30	<5	<20
I6301910	200	2	N	N	15	100	50	10	N	50	30	<5	<20
I6301920	200	2	N	N	10	100	30	15	N	<50	20	<5	<20
I6301930	5,000	1	N	N	N	70	7	5	N	N	20	<5	<20
I6301940	>5,000	<1	N	N	<10	50	10	<5	N	<50	20	<5	<20
I6301950	300	2	N	N	10	100	30	20	N	50	50	<5	<20
I6301960	500	2	N	N	15	150	30	30	N	70	50	<5	<20
I6301970	200	3	N	N	15	150	30	20	N	70	30	<5	<20
I6301980	500	1.5	N	N	<10	100	20	20	N	<50	20	<5	<20
I6302000	>5,000	2	N	N	20	100	50	30	N	50	30	<5	<20
I6302020	700	1.5	N	N	10	70	20	20	N	<50	30	<5	<20
I6302030	2,000	1	N	N	10	50	50	10	N	<50	30	<5	<20
I6302040	200	<1	N	N	15	20	30	7	N	N	15	<5	<20
I6302060	3,000	1.5	N	N	10	50	20	20	N	<50	20	<5	20
I6302070	>5,000	1	N	N	<10	50	30	15	N	<50	15	<5	<20
I6302080	>5,000	1	N	N	10	50	50	10	N	N	15	<5	<20
I6302090	>5,000	1	N	N	10	70	20	20	N	<50	30	<5	<20
I6302100	>5,000	1.5	N	N	10	100	30	10	N	50	20	<5	30
I6302120	500	<1	N	N	N	50	10	5	N	<50	10	<5	N
I6302140	150	<1	N	N	<10	30	7	5	N	<50	<10	<5	N
I6302150	150	1	N	N	<10	50	15	10	N	<50	10	<5	N
I6302170	>5,000	1	N	N	10	70	50	10	N	<50	20	<5	N
I6302190	500	1.5	N	N	15	100	20	7	N	<50	20	<5	N
I6302200	500	2	N	N	15	150	100	15	N	50	30	<5	<20
I6302220	100	<1	N	N	N	20	5	<5	N	N	<10	7	<20
I6302240	1,000	1	N	N	<10	70	50	7	N	N	10	10	<20
I6302260	3,000	1	N	N	<10	50	10	5	N	N	10	5	N
I6302280	700	<1	N	N	<10	50	7	5	N	N	10	10	N
I6302300	200	1.5	N	N	<10	100	30	10	N	<50	70	20	<20
I6302320	300	1	N	N	<10	50	15	5	N	N	50	7	N
I6302340	300	1	N	N	<10	50	10	5	N	N	50	<5	<20
I6302360	300	1	N	N	10	100	30	15	N	<50	100	<5	<20
I6302380	500	1.5	N	N	15	100	70	20	N	<50	150	15	20
I6302400	500	1.5	N	N	15	150	50	20	N	50	100	10	20
I6302420	700	2	N	N	15	150	70	50	N	70	200	15	N
I6302440	300	1.5	N	N	15	100	50	20	N	50	100	15	<20
I6302460	500	1.5	N	N	10	150	50	20	N	<50	150	20	<20
I6302480	300	1.5	N	N	15	150	50	15	N	<50	100	20	<20

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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 #
I6301510	10	<10	N	7	N	300	N	70	<20	20	N	1,000	.03	5
I6301550	15	<10	N	7	N	300	N	70	<20	10	N	300	.03	5
I6301560	15	<10	N	5	N	200	N	50	<20	15	N	300	.03	5
I6301580	20	<10	N	5	N	100	N	50	20	10	N	1,000	.01	5
I6301590	70	<10	N	15	N	150	N	100	<20	20	N	100	.06	5
I6301610	50	<10	N	7	N	150	N	50	<20	10	N	300	.03	5
I6301630	100	<10	N	10	N	150	N	70	<20	10	N	150	.11	5
I6301650	70	<10	N	15	N	100	N	100	<20	20	<200	100	.11	5
I6301670	50	<10	N	15	N	150	N	100	<20	20	<200	150	.14	5
I6301690	50	<10	N	10	N	150	N	100	<20	15	<200	150	.18	5
I6301710	30	<10	N	7	N	150	N	70	<20	10	<200	100	.06	6
I6301730	50	<10	N	10	N	150	N	100	<20	20	<200	150	.06	6
I6301750	30	<10	N	7	N	200	N	70	50	20	<200	200	.05	6
I6301770	70	50	N	10	N	150	N	100	<20	20	<200	100	.16	6
I6301790	70	<10	N	10	N	300	N	100	<20	20	<200	200	.07	6
I6301810	50	<10	N	10	N	300	N	100	<20	15	<200	150	.05	6
I6301820	20	<10	N	7	N	200	N	50	<20	10	<200	200	.08	6
I6301830	30	<10	N	5	N	150	N	70	<20	<10	2,000	300	.14	6
I6301840	50	<10	N	15	N	150	N	200	<20	20	1,000	300	.14	6
I6301850	50	<10	N	10	N	150	N	150	<20	20	<200	300	.07	6
I6301870	50	<10	N	15	N	700	N	200	20	30	2,000	200	.05	6
I6301880	50	<10	N	15	N	100	N	150	<20	20	3,000	200	.03	6
I6301900	50	<10	N	10	N	150	N	100	<20	20	<200	100	.07	6
I6301910	50	70	<100	10	50	150	N	100	<20	20	<200	500	.13	6
I6301920	20	10	<100	7	N	150	N	100	<20	15	<200	100	.06	6
I6301930	10	10	<100	5	N	700	N	50	<20	10	<200	100	.05	6
I6301940	10	200	N	5	N	700	N	50	<20	<10	300	100	.08	7
I6301950	50	20	N	15	N	150	N	100	<20	20	<200	150	.07	7
I6301960	50	15	N	20	N	200	N	150	<20	30	<200	150	.06	7
I6301970	50	<10	N	20	N	150	N	200	<20	30	<200	150	.06	7
I6301980	30	<10	N	7	N	1,000	N	150	<20	15	<200	150	.88	7
I6302000	50	<10	N	10	N	1,000	N	150	<20	20	<200	200	.06	7
I6302020	50	<10	N	10	N	200	N	100	<20	15	<200	100	.06	7
I6302030	50	<10	N	7	N	300	N	70	<20	10	<200	150	.94	7
I6302040	50	<10	N	5	N	100	N	50	<20	<10	<200	150	.19	7
I6302060	50	<10	N	7	N	500	N	100	<20	10	<200	200	.07	7
I6302070	50	<10	N	7	N	5,000	N	100	<20	15	<200	300	.06	7
I6302080	70	50	N	7	N	5,000	N	100	<20	10	<200	300	.06	7
I6302090	70	<10	N	10	N	3,000	N	150	<20	10	<200	150	.07	7
I6302100	50	<10	N	10	N	1,500	N	100	<20	15	<200	150	.12	7
I6302120	30	<10	N	<5	N	200	N	50	<20	N	<200	100	.02	7
I6302140	20	<10	N	5	N	100	N	50	<20	<10	<200	100	.02	7
I6302150	50	<10	N	7	N	100	N	100	<20	10	<200	150	.03	7
I6302170	150	<10	N	7	N	5,000	N	150	<20	<10	300	200	.15	7
I6302190	100	<10	N	10	N	5,000	N	150	<20	10	<200	150	.06	7
I6302200	150	15	N	15	N	300	N	200	<20	15	<200	200	.1	7
I6302220	15	<10	N	N	N	100	N	50	<20	N	<200	200	.04	7
I6302240	30	<10	N	7	N	100	N	100	20	10	<200	200	.06	7
I6302260	20	<10	N	5	N	200	N	70	<20	N	<200	70	.03	7
I6302280	20	<10	N	<5	N	200	N	50	<20	N	<200	100	.01	7
I6302300	70	<10	N	10	N	200	N	100	<20	15	200	150	.15	7
I6302320	30	<10	N	5	N	300	N	70	<20	N	<200	100	.05	7
I6302340	20	<10	N	7	N	700	N	50	<20	10	<200	150	.14	7
I6302360	30	30	N	10	N	300	N	100	<20	<10	<200	100	.11	7
I6302380	70	100	N	10	N	100	N	150	<20	10	200	150	.36	7
I6302400	70	20	<100	15	N	500	N	150	<20	20	200	150	.38	7
I6302420	150	70	<100	15	N	150	N	200	<20	10	500	300	.2	7
I6302440	100	20	<100	10	N	150	N	100	<20	10	500	200	.17	7
I6302460	100	15	N	10	N	>5,000	N	200	<20	10	300	150	.28	7
I6302480	70	20	N	15	N	200	N	150	<20	15	200	150	.14	7

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6302500	37 35 39	88 30 39	.1	3	.5	.5	<.2	.7	<.5	N	N	200
I6302520	37 35 39	88 30 39	1	3	.5	.3	<.2	1	.5	N	N	200
I6302530	37 35 39	88 30 39	.15	2	.3	.3	<.2	.7	<.5	N	N	150
I6302550	37 35 39	88 30 39	1	1	.5	<.2	<.2	.3	N	N	N	150
I6302560	37 35 39	88 30 39	.7	2	.5	.2	<.2	.5	<.5	N	N	200
I6302580	37 35 39	88 30 39	.07	3	.5	.5	<.2	.7	N	N	N	200
I6302600	37 35 39	88 30 39	.1	3	.5	.5	<.2	.7	N	N	N	200
I6302620	37 35 39	88 30 39	.1	3	.3	.5	<.2	.5	<.5	N	N	200
I6302640	37 35 39	88 30 39	.15	5	.3	.5	<.2	.5	<.5	N	N	200
I6302660	37 35 39	88 30 39	.15	2	.3	.5	<.2	.3	<.5	N	N	100
I6302680	37 35 39	88 30 39	.2	3	.3	.5	<.2	.5	N	N	N	150
I6302700	37 35 39	88 30 39	.1	5	.5	.5	<.2	1	N	N	N	200
I6302720	37 35 39	88 30 39	.2	5	.5	.5	<.2	.7	N	N	N	200
I6302740	37 35 39	88 30 39	.3	2	.3	.5	<.2	.5	N	N	N	150
I6302760	37 35 39	88 30 39	.15	2	.5	.3	<.2	1	N	N	N	200
I6302780	37 35 39	88 30 39	.15	1.5	.3	.3	<.2	.5	N	N	N	200
I6302800	37 35 39	88 30 39	.15	2	.2	.2	<.2	.3	N	N	N	150
I6302820	37 35 39	88 30 39	.2	2	.2	.3	<.2	.5	.5	N	N	150
I6302850	37 35 39	88 30 39	.15	1.5	.2	.2	<.2	.3	.5	N	N	100
I6302860	37 35 39	88 30 39	.2	.2	.15	.2	<.2	.1	.5	N	N	70
I6302880	37 35 39	88 30 39	.2	1	.1	.3	<.2	.3	<.5	N	N	100
I6302900	37 35 39	88 30 39	.15	1.5	.2	.3	<.2	.3	<.5	N	N	150
I6302920	37 35 39	88 30 39	.2	2	.2	.3	<.2	.3	<.5	N	N	150
I6302940	37 35 39	88 30 39	.15	1.5	.15	.2	<.2	.3	.5	N	N	150
I6302960	37 35 39	88 30 39	.2	2	.15	.2	<.2	.2	.5	N	N	100
I6302980	37 35 39	88 30 39	.5	1.5	.2	.2	<.2	.5	.5	N	N	100
I6303000	37 35 39	88 30 39	.5	1.5	.2	.2	<.2	.2	.5	N	N	100
I6303030	37 35 39	88 30 39	1	1	.2	.2	<.2	.3	.5	N	N	100
I6303050	37 35 39	88 30 39	.5	1	.2	.3	<.2	.3	.5	N	N	100
I6303070	37 35 39	88 30 39	.2	1	.15	.2	<.2	.2	.5	N	N	100
I6303090	37 35 39	88 30 39	1	.7	.2	.2	<.2	.2	.5	N	N	100
I6303110	37 35 39	88 30 39	.2	1	.2	.3	<.2	.3	.5	N	N	100
I6303130	37 35 39	88 30 39	.2	1	.15	.2	<.2	.2	.5	N	N	100
I6303160	37 35 39	88 30 39	.3	.2	.1	<.2	<.2	.1	N	N	N	70
I6303190	37 35 39	88 30 39	.2	.5	.15	.2	<.2	.2	<.5	N	N	70
I6303210	37 35 39	88 30 39	.15	.5	.15	.2	<.2	.2	<.5	N	N	100
I6303230	37 35 39	88 30 39	.2	.5	.2	.2	<.2	.15	<.5	N	N	100
I6303250	37 35 39	88 30 39	.2	.15	.2	<.2	<.2	.07	N	N	N	100
I6303270	37 35 39	88 30 39	.2	.2	.2	.2	<.2	.15	<.5	N	N	100
I6303290	37 35 39	88 30 39	.2	.3	.15	<.2	<.2	.1	<.5	N	N	100
I6303310	37 35 39	88 30 39	1	.2	.2	<.2	<.2	.1	N	N	N	70
I6303330	37 35 39	88 30 39	1	.1	.5	<.2	.2	.1	N	N	N	70
I6303350	37 35 39	88 30 39	.2	.5	.3	.2	<.2	.2	N	N	N	70
I6303370	37 35 39	88 30 39	.15	1	.3	.2	<.2	.2	N	N	N	70
I6303390	37 35 39	88 30 39	.15	.5	.2	.2	<.2	.2	<.5	N	N	70
I6303410	37 35 39	88 30 39	.1	.5	.15	.3	<.2	.2	N	N	N	70
I6303420	37 35 39	88 30 39	<.05	.5	.2	.3	<.2	.3	N	N	N	100
I6303440	37 35 39	88 30 39	<.05	1	.3	.2	<.2	.5	N	N	N	100
I6303450	37 35 39	88 30 39	<.05	2	.5	.3	<.2	.7	<.5	N	N	150
I6303460	37 35 39	88 30 39	<.05	3	.5	.3	<.2	1	<.5	N	N	200
I6303470	37 35 39	88 30 39	<.05	5	.7	.3	<.2	1	N	N	N	500
I6303490	37 35 39	88 30 39	<.05	5	.7	.3	<.2	1	3	N	N	300
I6303520	37 35 39	88 30 39	<.05	7	.7	.2	<.2	.7	N	N	N	500
I6303540	37 35 39	88 30 39	<.05	7	.7	.3	<.2	.5	N	N	N	300
I6303560	37 35 39	88 30 39	<.05	5	.7	.3	<.2	.7	N	N	N	500
I6303580	37 35 39	88 30 39	<.05	7	.7	.2	<.2	.7	N	N	N	500
I6303600	37 35 39	88 30 39	<.05	10	.7	.3	<.2	.7	N	N	N	500
I6303620	37 35 39	88 30 39	<.05	10	1.5	.3	<.2	.7	N	N	N	1,000
I6303640	37 35 39	88 30 39	<.05	7	1	.5	<.2	1	N	N	N	500
I6303660	37 35 39	88 30 39	<.05	7	1	.5	<.2	1	N	N	N	700

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6302500	300	1.5	N	N	10	100	50	15	N	50	100	20	<20
I6302520	500	2	N	N	10	150	70	20	N	50	100	30	<20
I6302530	700	1.5	N	N	<10	100	100	7	N	N	50	20	<20
I6302550	200	1	N	N	N	50	20	7	N	N	70	<5	N
I6302560	200	1	N	N	10	70	30	10	N	N	70	15	20
I6302580	300	1	N	N	15	100	50	20	N	50	100	20	20
I6302600	500	1	N	N	15	100	70	20	N	50	150	20	<20
I6302620	300	1	N	N	10	100	50	20	N	<50	100	20	20
I6302640	300	1	N	N	<10	70	50	15	N	<50	70	20	20
I6302660	200	1	N	N	<10	50	30	10	N	N	50	15	20
I6302680	200	1	N	N	10	70	50	10	N	N	70	10	30
I6302700	200	1.5	N	N	20	150	50	50	N	70	70	<5	30
I6302720	300	2	N	N	30	150	70	30	N	50	100	20	30
I6302740	200	1	N	N	15	100	30	10	N	<50	70	10	<20
I6302760	300	1	N	N	10	100	30	7	N	<50	70	<5	N
I6302780	500	1.5	N	N	<10	100	20	7	N	N	100	10	N
I6302800	1,000	1	N	N	10	70	30	5	N	N	70	<5	N
I6302820	200	1	N	N	10	70	30	10	N	<50	100	5	20
I6302850	100	1	N	N	<10	70	15	5	N	N	20	5	<20
I6302860	50	<1	N	N	N	20	5	<5	N	N	15	7	<20
I6302880	150	1	N	N	<10	50	15	<5	N	N	50	5	N
I6302900	200	1	N	N	10	50	20	<5	N	N	70	5	N
I6302920	200	1	N	N	10	50	20	7	N	N	70	5	N
I6302940	200	1	N	N	<10	50	20	7	N	N	70	5	N
I6302960	150	1.5	N	N	<10	50	20	7	N	N	70	5	N
I6302980	200	<1	N	N	10	30	30	7	N	N	70	5	N
I6303000	150	1	N	N	<10	50	20	5	N	N	50	5	N
I6303030	200	1	N	N	<10	50	20	5	N	N	70	5	N
I6303050	200	1	N	N	<10	30	20	5	N	N	50	5	N
I6303070	100	1	N	N	<10	30	10	5	N	N	50	5	N
I6303090	150	<1	N	N	<10	50	20	5	N	N	50	5	N
I6303110	150	1	N	N	<10	50	20	7	N	N	50	5	N
I6303130	150	1	N	N	<10	50	20	7	N	N	50	5	N
I6303160	70	<1	N	N	<10	10	5	<5	N	N	10	5	N
I6303190	150	1	N	N	<10	20	10	5	N	N	20	5	N
I6303210	150	1	N	N	<10	30	15	5	N	N	20	5	N
I6303230	150	<1	N	N	<10	20	20	5	N	N	20	5	N
I6303250	70	<1	N	N	<10	10	5	<5	N	N	10	5	N
I6303270	100	<1	N	N	<10	20	20	5	N	N	15	5	N
I6303290	100	1	N	N	<10	15	5	<5	N	N	20	5	N
I6303310	200	<1	N	N	<10	20	10	<5	N	N	10	5	N
I6303330	700	<1	N	N	<10	15	7	<5	N	N	20	5	N
I6303350	700	1	N	N	<10	50	10	<5	N	N	20	5	<20
I6303370	200	1	N	N	<10	50	10	5	N	N	30	5	<20
I6303390	1,000	1	N	N	<10	50	15	5	N	N	20	5	<20
I6303410	500	1	N	N	<10	50	10	5	N	N	20	7	<20
I6303420	500	1	N	N	<10	50	15	5	N	N	30	5	<20
I6303440	700	1.5	N	N	<10	50	20	7	N	N	30	5	<20
I6303450	700	1.5	N	N	10	70	20	10	N	<50	50	5	<20
I6303460	700	5	N	N	20	150	20	20	N	<50	70	5	<20
I6303470	1,000	2	N	N	30	100	20	20	N	70	50	5	<20
I6303490	1,000	2	N	50	30	100	150	15	N	50	70	200	<20
I6303520	500	2	N	N	20	70	100	10	N	<50	100	200	<20
I6303540	500	3	N	N	30	100	100	20	N	<50	100	150	<20
I6303560	500	3	N	N	30	100	100	20	N	50	70	100	<20
I6303580	700	2	N	N	30	100	100	20	N	50	100	100	<20
I6303600	500	2	N	N	50	100	150	30	N	50	100	100	<20
I6303620	500	3	N	N	20	100	100	30	N	50	150	50	<20
I6303640	700	2	N	N	30	70	100	30	N	70	100	50	<20
I6303660	700	2	N	N	20	100	100	20	N	70	100	50	<20

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6302500	100	70	N	10	N	<100	N	150	<20	10	200	150	.18	7
I6302520	100	50	N	10	N	100	N	150	<20	15	700	150	.2	7
I6302530	70	10	N	7	N	150	N	100	<20	<10	200	100	.11	7
I6302550	15	<10	N	5	N	100	N	50	<20	<10	N	70	.07	7
I6302560	30	50	N	10	N	300	N	100	<20	10	N	100	.08	7
I6302580	50	70	N	10	N	5,000	N	100	<20	10	<200	150	.18	7
I6302600	70	15	N	10	N	700	N	150	<20	10	200	150	.18	7
I6302620	70	30	N	10	30	500	N	100	<20	<10	200	150	.21	7
I6302640	70	100	N	7	N	2,000	N	100	<20	<10	500	100	.12	7
I6302660	30	150	N	5	N	500	N	70	<20	N	200	100	.1	7
I6302680	50	30	N	10	N	200	N	70	<20	15	<200	150	.25	7
I6302700	50	150	N	15	N	150	N	100	<20	30	N	150	.12	7
I6302720	100	30	N	15	N	150	N	100	<20	20	<200	200	.18	7
I6302740	50	70	N	10	N	150	N	70	<20	10	<200	150	.15	7
I6302760	50	10	N	10	N	100	N	100	<20	10	<200	100	.15	7
I6302780	30	10	N	7	N	>5,000	N	100	<20	<10	<200	100	.11	7
I6302800	50	100	N	7	N	>5,000	N	100	<20	<10	<200	70	.1	7
I6302820	50	500	N	7	N	500	N	100	<20	10	<200	100	.11	7
I6302850	20	<10	N	5	N	100	N	50	<20	<10	N	100	.06	7
I6302860	15	<10	N	<5	N	<100	N	20	20	<10	N	100	.04	7
I6302880	30	<10	N	5	N	100	N	50	<20	<10	<200	150	.05	7
I6302900	50	<10	N	5	N	100	N	70	<20	10	<200	150	.06	7
I6302920	50	20	N	7	N	150	N	100	<20	<10	N	150	.08	7
I6302940	30	15	N	5	N	100	N	70	<20	10	N	150	.06	7
I6302960	20	20	N	5	N	100	N	70	<20	N	N	100	.05	7
I6302980	30	50	N	5	N	150	N	70	<20	N	<200	100	.06	7
I6303000	30	<10	N	5	N	100	N	50	<20	N	<200	50	.05	7
I6303030	30	50	N	5	N	500	N	70	<20	N	<200	100	.06	7
I6303050	30	10	N	5	N	150	N	50	<20	N	<200	150	.04	7
I6303070	20	<10	N	<5	N	100	N	50	<20	N	N	70	.02	7
I6303090	20	15	N	<5	N	<100	N	50	<20	N	N	100	.02	7
I6303110	30	15	N	5	N	200	N	70	<20	N	N	150	.03	7
I6303130	20	100	N	5	N	150	N	50	<20	N	N	150	.03	7
I6303160	10	<10	N	N	N	<100	N	20	<20	N	N	70	.01	7
I6303190	20	10	N	5	N	200	N	30	<20	N	<200	150	.03	7
I6303210	20	<10	N	<5	N	200	N	30	<20	N	N	100	.03	7
I6303230	15	<10	N	<5	N	500	N	20	<20	N	N	100	.02	7
I6303250	15	<10	N	N	N	100	N	20	<20	N	N	100	.01	7
I6303270	20	<10	N	N	N	150	N	30	<20	N	N	100	.03	7
I6303290	15	<10	N	<5	N	<100	N	20	<20	N	N	50	.03	7
I6303310	15	<10	N	<5	N	<100	N	30	20	<10	N	70	.02	7
I6303330	15	<10	N	<5	N	<100	N	20	<20	<10	N	50	.02	7
I6303350	30	<10	N	5	N	<100	N	70	<20	<10	N	70	.05	7
I6303370	30	<10	N	5	N	<100	N	70	<20	<10	<200	100	.05	7
I6303390	30	<10	N	5	N	<100	N	70	<20	<10	N	100	.05	7
I6303410	30	<10	N	5	N	<100	N	70	<20	<10	<200	70	.04	7
I6303420	30	<10	N	5	N	200	N	70	<20	10	N	100	.04	7
I6303440	50	<10	N	7	N	100	N	100	<20	15	<200	150	.03	7
I6303450	70	15	N	10	N	100	N	100	<20	20	300	150	.03	7
I6303460	100	10	N	15	N	100	N	200	<20	20	200	150	.05	7
I6303470	100	10	N	15	N	100	N	200	<20	30	200	150	.07	8
I6303490	150	50	N	15	N	100	N	2,000	<20	30	700	150	.07	10
I6303520	150	20	N	10	N	100	N	1,000	<20	30	300	200	.05	10
I6303540	100	30	N	15	N	150	N	200	<20	30	500	150	.03	10
I6303560	100	20	N	15	N	150	N	300	<20	30	<200	150	.03	10
I6303580	100	20	N	15	N	150	N	300	<20	30	200	150	.05	10
I6303600	100	50	N	15	N	150	N	300	<20	30	200	150	.05	10
I6303620	150	50	N	20	N	150	N	500	<20	30	<200	200	.04	10
I6303640	100	20	N	20	N	150	N	300	<20	30	<200	200	.04	10
I6303660	100	15	N	20	N	150	N	200	<20	30	N	200	.04	10

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6303680	37 35 39	88 30 39	<.05	5	.7	.5	<.2	1	N	N	N	500
I6303700	37 35 39	88 30 39	<.05	5	.7	.5	<.2	.7	<.5	N	N	500
I6303730	37 35 39	88 30 39	<.05	5	.7	.5	<.2	.5	N	N	N	300
I6303750	37 35 39	88 30 39	<.05	5	.7	.5	<.2	.7	.5	N	N	200
I6303770	37 35 39	88 30 39	<.05	5	.7	.3	<.2	.5	1.5	N	N	300
I6303790	37 35 39	88 30 39	.05	7	.7	.5	<.2	.7	2	N	N	500
I6303800	37 35 39	88 30 39	.07	5	.7	.5	<.2	.5	.7	N	N	300
I6303820	37 35 39	88 30 39	.05	1.5	.5	.3	<.2	.5	N	N	N	200
I6303840	37 35 39	88 30 39	.07	1	.2	.2	<.2	.2	N	N	N	100
I6303860	37 35 39	88 30 39	.1	2	.5	.2	<.2	.3	N	N	N	100
I6303880	37 35 39	88 30 39	.07	3	.7	.2	<.2	.5	.5	N	N	150
I6303900	37 35 39	88 30 39	.07	2	.5	.2	<.2	.5	<.5	N	N	100
I6303920	37 35 39	88 30 39	.1	3	.5	.2	<.2	.5	<.5	N	N	150
I6303940	37 35 39	88 30 39	.07	5	.3	.2	<.2	.3	<.5	N	N	150
I6303960	37 35 39	88 30 39	.07	5	.5	.2	<.2	.5	N	N	N	150
I6303980	37 35 39	88 30 39	.1	3	.5	.2	<.2	.5	N	N	N	150
I6304000	37 35 39	88 30 39	.2	2	.3	.2	<.2	.3	N	N	N	100
I6304020	37 35 39	88 30 39	.5	1.5	.15	<.2	<.2	.2	<.5	N	N	70
I6304030	37 35 39	88 30 39	.15	.5	.1	<.2	<.2	.15	N	N	N	50
I6304040	37 35 39	88 30 39	.2	.2	.05	<.2	<.2	.1	N	N	N	20
I6304060	37 35 39	88 30 39	.5	1.5	.2	<.2	<.2	.3	N	N	N	100
I6304080	37 35 39	88 30 39	.3	.3	.1	<.2	<.2	.2	N	N	N	50
I6304100	37 35 39	88 30 39	.15	.2	.07	<.2	<.2	.1	N	N	N	20
I6304120	37 35 39	88 30 39	.1	.15	.05	<.2	<.2	.1	N	N	N	20
I6304140	37 35 39	88 30 39	.15	.2	.07	<.2	<.2	.15	N	N	N	30
I6304160	37 35 39	88 30 39	.1	.1	.03	<.2	<.2	.1	N	N	N	30
I6304180	37 35 39	88 30 39	.15	.1	.05	<.2	<.2	.1	N	N	N	30
I6304200	37 35 39	88 30 39	.1	.15	.05	<.2	<.2	.1	N	N	N	50
I6304220	37 35 39	88 30 39	.15	.7	.1	<.2	<.2	.2	N	N	N	50
I6304240	37 35 39	88 30 39	.15	.1	.03	<.2	<.2	.1	N	N	N	30
I6304260	37 35 39	88 30 39	.1	.1	.05	<.2	<.2	.1	N	N	N	50
I6304280	37 35 39	88 30 39	.15	.15	.05	<.2	<.2	.07	N	N	N	50
I6304300	37 35 39	88 30 39	.15	.2	.05	<.2	<.2	.1	N	N	N	50
I6304330	37 35 39	88 30 39	.1	.2	.03	<.2	<.2	.1	N	N	N	50
I6304350	37 35 39	88 30 39	.2	.15	.05	<.2	<.2	.15	N	N	N	50
I6304370	37 35 39	88 30 39	.15	.1	.05	<.2	<.2	.1	N	N	N	30
I6304390	37 35 39	88 30 39	.1	.1	.03	<.2	<.2	.07	N	N	N	70
I6304400	37 35 39	88 30 39	.1	.15	.03	<.2	<.2	.1	N	N	N	70
I6304410	37 35 39	88 30 39	.5	.2	.5	<.2	<.2	.1	N	N	N	100
I6304430	37 35 39	88 30 39	.15	.15	.05	<.2	<.2	.07	N	N	N	50
I6304450	37 35 39	88 30 39	.15	.15	.1	<.2	<.2	.1	N	N	N	70
I6304470	37 35 39	88 30 39	.1	.2	.1	<.2	<.2	.15	N	N	N	70
I6304490	37 35 39	88 30 39	.07	.1	.02	<.2	<.2	.03	N	N	N	30
I6304510	37 35 39	88 30 39	.1	.1	.05	<.2	<.2	.05	N	N	N	50
I6304530	37 35 39	88 30 39	.1	.05	.03	<.2	<.2	.05	N	N	N	50
I6304550	37 35 39	88 30 39	.15	.05	.03	<.2	<.2	.02	N	N	N	50
I6304570	37 35 39	88 30 39	.15	.07	.05	<.2	<.2	.07	N	N	N	50
I6304590	37 35 39	88 30 39	.15	.1	.05	<.2	<.2	.07	N	N	N	30
I6304610	37 35 39	88 30 39	.1	.3	.07	<.2	<.2	.15	N	N	N	70
I6304630	37 35 39	88 30 39	.2	.5	.05	<.2	<.2	.07	N	N	N	100
I6304650	37 35 39	88 30 39	.2	.1	.07	<.2	<.2	.05	N	N	N	70
I6304670	37 35 39	88 30 39	.2	.1	.05	<.2	<.2	.03	N	N	N	70
I6304690	37 35 39	88 30 39	.2	.1	.05	<.2	<.2	.07	N	N	N	70
I6304710	37 35 39	88 30 39	.2	.3	.03	<.2	<.2	.05	N	N	N	70
I6304730	37 35 39	88 30 39	.15	.2	.05	<.2	<.2	.05	N	N	N	70
I6304750	37 35 39	88 30 39	.7	.1	.2	<.2	<.2	.05	N	N	N	100
I6304770	37 35 39	88 30 39	.5	.07	.1	<.2	<.2	.05	N	N	N	70
I6304790	37 35 39	88 30 39	1	.1	.2	<.2	<.2	.05	N	N	N	50
I6304810	37 35 39	88 30 39	1	.15	.3	<.2	<.2	.05	N	N	N	70
I6304830	37 35 39	88 30 39	1	.1	.3	<.2	<.2	.07	N	N	N	70

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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
I6303680	500	3	N	N	20	150	100	20	N	50	100	100	<20
I6303700	500	3	N	N	20	150	150	30	N	50	100	100	<20
I6303730	300	3	N	N	20	200	100	20	N	50	100	50	<20
I6303750	300	2	N	N	20	100	150	30	N	50	100	70	N
I6303770	300	3	N	N	20	150	200	20	N	50	100	70	N
I6303790	300	3	N	N	20	150	700	30	N	50	100	70	N
I6303800	300	2	N	N	20	100	200	20	N	50	100	50	<20
I6303820	300	1.5	N	N	15	50	100	7	N	N	30	50	<20
I6303840	200	1.5	N	N	<10	20	70	5	N	N	20	20	N
I6303860	200	1.5	N	N	10	50	100	7	N	<50	50	20	N
I6303880	200	1.5	N	N	15	70	100	10	N	N	30	50	N
I6303900	200	1.5	N	N	10	50	70	15	N	N	30	30	N
I6303920	300	1.5	N	N	15	50	150	15	N	50	50	50	<20
I6303940	700	1	N	N	15	50	100	10	N	<50	50	30	N
I6303960	200	1.5	N	N	15	50	100	15	N	<50	70	50	N
I6303980	300	1.5	N	N	10	50	100	10	N	<50	30	50	N
I6304000	150	1.5	N	N	10	50	70	7	N	N	30	10	N
I6304020	200	1	N	N	<10	30	50	7	N	N	20	15	N
I6304030	100	<1	N	N	<10	20	15	5	N	N	10	10	N
I6304040	50	<1	N	N	<10	20	5	<5	N	N	10	7	N
I6304060	>5,000	<1	N	N	N	10	70	5	N	N	10	<5	N
I6304080	5,000	<1	N	N	N	10	5	5	N	N	10	<5	N
I6304100	50	<1	N	N	N	10	7	5	N	N	10	<5	N
I6304120	300	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304140	30	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304160	20	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304180	>5,000	<1	N	N	N	10	5	5	N	N	10	<5	N
I6304200	>5,000	1	N	N	N	10	30	5	N	N	10	<5	N
I6304220	5,000	<1	N	N	N	10	<5	5	N	N	10	15	N
I6304240	5,000	<1	N	N	N	10	<5	<5	N	N	10	<5	N
I6304260	5,000	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304280	3,000	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304300	200	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304330	200	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304350	1,500	<1	N	N	N	10	<5	<5	N	N	10	<5	N
I6304370	50	<1	N	N	N	10	<5	<5	N	N	10	<5	N
I6304390	50	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304400	70	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304410	100	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304430	300	<1	N	N	N	10	<5	5	N	N	10	<5	N
I6304450	100	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304470	100	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304490	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304510	20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304530	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304550	<20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304570	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304590	100	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304610	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304630	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304650	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304670	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304690	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304710	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304730	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304750	100	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304770	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304790	50	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6304810	50	<1	N	N	N	<10	<5	5	N	N	<10	<5	N
I6304830	70	<1	N	N	N	10	<5	7	N	N	<10	<5	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6303680	100	20	N	20	N	100	N	500	<20	30	300	200	.04	10
I6303700	150	30	N	20	N	100	N	500	<20	30	200	200	.05	10
I6303730	100	20	N	10	N	100	N	300	<20	20	<200	100	.05	10
I6303750	100	50	N	15	N	100	N	500	<20	20	<200	150	.05	10
I6303770	100	30	N	10	N	100	N	300	<20	20	300	150	.08	10
I6303790	150	30	N	10	N	100	N	500	<20	20	<200	200	.08	10
I6303800	100	15	N	15	N	100	N	500	<20	20	<200	150	.07	10
I6303820	70	10	N	7	N	100	N	200	<20	10	N	150	.04	10
I6303840	30	10	N	5	N	100	N	150	<20	<10	N	70	.03	10
I6303860	50	10	N	7	N	100	N	200	<20	<10	N	100	.03	10
I6303880	70	10	N	10	N	100	N	300	<20	10	N	150	.03	10
I6303900	70	10	N	10	N	100	N	200	<20	10	N	100	.03	10
I6303920	70	10	N	10	N	100	N	200	<20	15	N	150	.03	10
I6303940	50	10	N	7	N	100	N	150	<20	10	<200	150	.03	10
I6303960	70	10	N	10	N	100	N	300	<20	15	<200	150	.03	10
I6303980	50	10	N	10	N	100	N	200	<20	15	N	150	.03	10
I6304000	50	10	N	5	N	100	N	150	<20	<10	<200	100	.02	10
I6304020	50	10	N	<5	N	100	N	100	20	10	<200	150	.02	10
I6304030	15	10	N	<5	N	<100	N	70	<20	<10	N	100	.01	10
I6304040	7	10	N	<5	N	<100	N	50	<20	<10	N	70	.01	10
I6304060	<5	N	N	N	N	5,000	N	100	<20	N	<200	200	.04	10
I6304080	<5	N	N	N	N	200	N	30	<20	N	<200	20	.07	10
I6304100	<5	N	N	N	N	<100	N	50	<20	N	<200	30	.01	10
I6304120	<5	N	N	N	N	<100	N	10	<20	N	<200	150	.01	10
I6304140	<5	N	N	N	N	<100	N	20	<20	N	<200	100	<.01	10
I6304160	<5	N	N	N	N	<100	N	<10	<20	N	<200	150	<.01	10
I6304180	<5	N	N	N	N	700	N	15	<20	N	200	200	.01	10
I6304200	<5	N	N	N	N	200	N	15	<20	N	<200	100	<.01	10
I6304220	<5	N	N	N	N	100	N	50	<20	N	<200	200	<.01	10
I6304240	<5	N	N	N	N	100	N	10	<20	N	<200	150	<.01	10
I6304260	<5	N	N	N	N	<100	N	15	<20	N	<200	150	<.01	10
I6304280	<5	N	N	N	N	<100	N	15	<20	N	<200	100	<.01	10
I6304300	<5	N	N	N	N	<100	N	10	<20	N	<200	50	<.01	10
I6304330	<5	N	N	N	N	<100	N	10	<20	N	<200	50	<.01	10
I6304350	<5	N	N	N	N	200	N	15	<20	N	<200	100	<.01	10
I6304370	<5	N	N	N	N	<100	N	15	<20	N	<200	100	<.01	10
I6304390	<5	N	N	N	N	<100	N	10	<20	N	<200	50	<.01	10
I6304400	<5	N	N	N	N	<100	N	20	<20	N	<200	100	<.01	10
I6304410	<5	N	N	N	N	<100	N	20	<20	N	<200	30	.01	10
I6304430	<5	N	N	N	N	<100	N	15	<20	N	<200	200	.01	10
I6304450	<5	<10	N	N	N	100	N	30	20	N	<200	200	<.01	10
I6304470	<5	<10	N	N	N	100	N	20	20	N	<200	70	.01	10
I6304490	<5	<10	N	N	N	100	N	<10	100	N	<200	150	.01	10
I6304510	<5	<10	N	N	N	100	N	10	<20	N	<200	100	<.01	10
I6304530	<5	<10	N	N	N	100	N	10	<20	N	<200	100	<.01	10
I6304550	<5	<10	N	N	N	100	N	<10	<20	N	<200	30	<.01	10
I6304570	<5	<10	N	N	N	100	N	10	<20	N	<200	70	.01	10
I6304590	<5	<10	N	N	N	100	N	10	<20	N	<200	15	<.01	10
I6304610	<5	<10	N	N	N	100	N	20	<20	N	<200	50	.01	10
I6304630	<5	<10	N	N	N	100	N	15	20	N	<200	20	<.01	10
I6304650	<5	<10	N	N	N	100	N	10	<20	N	<200	30	.01	10
I6304670	<5	<10	N	N	N	100	N	10	20	N	<200	30	<.01	10
I6304690	<5	<10	N	N	N	100	N	10	<20	N	<200	150	.01	10
I6304710	<5	<10	N	N	N	100	N	<10	<20	N	<200	70	.01	10
I6304730	<5	<10	N	N	N	100	N	<10	20	N	<200	150	.01	10
I6304750	<5	<10	N	N	N	100	N	10	<20	N	<200	50	.01	10
I6304770	<5	<10	N	N	N	100	N	10	<20	N	<200	<10	.01	10
I6304790	<5	<10	N	N	N	100	N	15	<20	N	<200	50	.01	10
I6304810	<5	<10	N	N	N	100	N	10	20	N	<200	15	.01	10
I6304830	5	<10	N	N	N	<100	N	15	20	N	<200	50	.01	10

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6304850	37 35 39	88 30 39	.5	.15	.5	<.2	<.2	.2	N	N	N	100
I6304870	37 35 39	88 30 39	.5	.2	.5	<.2	<.2	.15	N	N	N	100
I6304890	37 35 39	88 30 39	.5	.2	.5	<.2	<.2	.2	N	N	N	70
I6304900	37 35 39	88 30 39	.5	.15	.5	<.2	<.2	.2	N	N	N	70
I6304910	37 35 39	88 30 39	.15	.15	.03	<.2	<.2	.1	N	N	N	50
I6304930	37 35 39	88 30 39	1	.3	.7	.2	<.2	.2	N	N	N	70
I6304950	37 35 39	88 30 39	.5	.2	.3	.2	<.2	.1	N	N	N	50
I6304970	37 35 39	88 30 39	.2	.2	.15	.5	<.2	.1	N	N	N	50
I6304990	37 35 39	88 30 39	.1	.2	.07	.5	<.2	.2	N	N	N	30
I6305010	37 35 39	88 30 39	.3	.3	.3	.3	<.2	.2	N	N	N	70
I6305030	37 35 39	88 30 39	.15	.3	.2	.3	<.2	.2	N	N	N	50
I6305050	37 35 39	88 30 39	.2	.7	.5	.3	<.2	.3	N	N	N	100
I6305070	37 35 39	88 30 39	.3	.5	.5	.3	<.2	.3	N	N	N	100
I6305090	37 35 39	88 30 39	.2	1	.7	.3	<.2	.5	N	N	N	100
I6305110	37 35 39	88 30 39	.5	.3	.5	.2	<.2	.3	N	N	N	70
I6305130	37 35 39	88 30 39	.3	1	.7	.3	<.2	.3	N	N	N	70
I6305150	37 35 39	88 30 39	.5	1	.7	.3	<.2	.5	N	N	N	100
I6305170	37 35 39	88 30 39	.5	2	1	.5	<.2	.5	N	N	N	100
I6305190	37 35 39	88 30 39	.5	2	1	.5	<.2	.5	N	N	N	100
I6305210	37 35 39	88 30 39	.5	2	1	.3	<.2	.5	N	N	N	100
I6305230	37 35 39	88 30 39	1	2	1	.2	<.2	.5	N	N	N	150
I6305250	37 35 39	88 30 39	.2	3	1	.3	<.2	.5	N	N	N	200
I6305270	37 35 39	88 30 39	.2	3	1	.3	<.2	.7	N	N	N	200
I6305290	37 35 39	88 30 39	.15	3	1	.3	<.2	.5	N	N	N	300
I6305300	37 35 39	88 30 39	.15	5	1.5	.7	<.2	.7	N	N	N	200
I6305320	37 35 39	88 30 39	.15	5	1	.5	<.2	.7	N	N	N	200
I6305340	37 35 39	88 30 39	.1	5	1	.5	<.2	.5	N	N	N	200
I6305360	37 35 39	88 30 39	.15	3	1	1	<.2	.7	N	N	N	200
I6305380	37 35 39	88 30 39	.15	3	1	.5	<.2	.7	N	N	N	200
I6305390	37 35 39	88 30 39	.2	3	1	1	<.2	.7	N	N	N	150
I6305410	37 35 39	88 30 39	.1	5	1	1	<.2	.7	N	N	N	200
I6305430	37 35 39	88 30 39	.2	7	1	1.5	<.2	.7	N	N	N	200
I6305450	37 35 39	88 30 39	.15	7	1	1	<.2	.7	N	N	N	200
I6305470	37 35 39	88 30 39	.15	7	1.5	1	<.2	.7	N	N	N	200
I6305490	37 35 39	88 30 39	.15	7	2	1	<.2	.7	N	N	N	200
I6305510	37 35 39	88 30 39	.15	7	2	1	<.2	1	N	N	N	300
I6305520	37 35 39	88 30 39	.2	2	.7	.3	<.2	.5	N	N	N	150
I6305540	37 35 39	88 30 39	.2	2	1	.2	<.2	.7	N	N	N	200
I6305560	37 35 39	88 30 39	.3	2	.7	.2	<.2	.5	N	N	N	100
I6305580	37 35 39	88 30 39	.3	1.5	.5	.2	<.2	.3	N	N	N	50
I6305600	37 35 39	88 30 39	.5	3	1	.2	<.2	.7	N	N	N	70
I6305620	37 35 39	88 30 39	1	2	1.5	.3	<.2	.5	N	N	N	70
I6305640	37 35 39	88 30 39	.2	3	1.5	1	<.2	.7	N	N	N	150
I6305660	37 35 39	88 30 39	.1	5	1	1	<.2	1	N	N	N	150
I6305680	37 35 39	88 30 39	.05	5	1	1	<.2	.7	.5	N	N	150
I6305700	37 35 39	88 30 39	<.05	7	1.5	1	<.2	1	2	N	N	200
I6305720	37 35 39	88 30 39	<.05	7	1.5	.5	<.2	.7	<.5	N	N	200
I6305750	37 35 39	88 30 39	<.05	7	1	1	<.2	1	N	N	N	200
I6305770	37 35 39	88 30 39	<.05	7	1	1.5	<.2	1	N	N	N	200
I6305800	37 35 39	88 30 39	<.05	7	1.5	.7	<.2	1	N	N	N	300
I6305820	37 35 39	88 30 39	.05	3	.7	.5	<.2	1	N	N	N	200
I6305840	37 35 39	88 30 39	.05	3	.5	.7	<.2	.7	N	N	N	200
I6305860	37 35 39	88 30 39	.1	2	.5	.7	<.2	.7	N	N	N	200
I6305870	37 35 39	88 30 39	.1	3	.5	.7	<.2	.7	N	N	N	150
I6305880	37 35 39	88 30 39	.1	3	.5	.5	<.2	.5	N	N	N	150
I6305900	37 35 39	88 30 39	.1	3	.3	.7	<.2	.5	N	N	N	150
I6305920	37 35 39	88 30 39	.1	3	.3	.3	<.2	.5	N	N	N	100
I6305940	37 35 39	88 30 39	.2	5	.3	.2	<.2	.5	N	N	N	100
I6305960	37 35 39	88 30 39	.1	3	.5	.3	<.2	.5	N	N	N	150
I6305970	37 35 39	88 30 39	.15	5	.5	1.5	<.2	.3	N	N	N	100

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6304850	100	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304870	70	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304890	50	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304900	70	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304910	<20	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304930	70	<1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6304950	50	<1	N	N	70	<10	<5	5	N	N	10	<5	N
I6304970	70	<1	N	N	10	<10	<5	5	N	N	10	<5	N
I6304990	50	<1	N	N	15	<10	5	5	N	N	10	<5	N
I6305010	100	1	N	N	<10	<10	<5	5	N	N	10	<5	N
I6305030	50	1	N	N	<10	15	<5	5	N	N	10	<5	N
I6305050	100	1	N	N	<10	20	5	5	N	N	10	<5	N
I6305070	150	1	N	N	<10	20	5	5	N	N	10	<5	N
I6305090	200	1	N	N	<10	30	10	7	N	N	15	<5	N
I6305110	150	1	N	N	<10	30	5	5	N	N	10	<5	N
I6305130	200	1	N	N	<10	30	7	7	N	N	15	<5	N
I6305150	300	1	N	N	<10	50	5	7	N	N	20	<5	N
I6305170	300	1	N	N	<10	50	15	7	N	N	50	<5	N
I6305190	200	1	N	N	10	50	10	7	N	N	70	<5	N
I6305210	300	1	N	N	<10	50	15	5	N	N	70	<5	N
I6305230	200	1.5	N	N	<10	50	20	7	N	N	50	<5	N
I6305250	200	1.5	N	N	10	70	50	10	N	N	100	<5	N
I6305270	500	1.5	N	N	15	50	50	10	N	N	100	<5	N
I6305290	300	2	N	N	10	70	30	10	N	N	100	<5	N
I6305300	500	2	N	N	15	100	50	20	N	N	150	<5	N
I6305320	1,000	2	N	N	30	70	30	20	N	N	150	<5	<20
I6305340	700	2	N	N	20	70	20	20	N	N	150	<5	N
I6305360	500	2	N	N	15	70	50	30	N	N	150	<5	N
I6305380	500	2	N	N	15	50	20	15	N	N	70	<5	N
I6305390	500	1.5	N	N	15	50	100	20	N	N	70	<5	N
I6305410	700	1.5	N	N	10	50	7	20	N	N	70	<5	<20
I6305430	700	1.5	N	N	50	70	10	30	N	N	100	<5	<20
I6305450	1,000	1.5	N	N	15	70	10	20	N	N	150	<5	<20
I6305470	1,000	1.5	N	N	30	70	100	30	N	N	150	<5	<20
I6305490	700	1.5	N	N	30	70	200	20	N	N	100	<5	<20
I6305510	700	2	N	N	20	70	20	30	N	N	150	<5	<20
I6305520	700	1	N	N	<10	30	20	7	N	N	30	<5	<20
I6305540	500	1	N	N	15	50	70	10	N	N	30	<5	N
I6305560	200	<1	N	N	10	30	7	7	N	N	<10	<5	N
I6305580	150	<1	N	N	<10	20	5	5	N	N	<10	<5	N
I6305600	200	<1	N	N	<10	50	7	5	N	N	20	<5	N
I6305620	200	<1	N	N	<10	50	5	7	N	N	50	<5	N
I6305640	300	1.5	N	N	15	70	10	20	N	<50	150	<5	N
I6305660	500	1.5	N	N	15	50	15	15	N	<50	200	<5	N
I6305680	500	1.5	N	N	15	50	20	15	N	<50	200	<5	<20
I6305700	500	1.5	N	N	20	70	50	20	N	50	300	<5	<20
I6305720	500	2	N	N	20	70	50	20	N	50	300	<5	<20
I6305750	700	1.5	N	N	15	70	50	20	N	50	300	<5	<20
I6305770	700	1.5	N	N	20	70	70	30	N	<50	300	<5	<20
I6305800	500	1.5	N	N	15	70	50	20	N	50	500	<5	<20
I6305820	500	1	N	N	10	50	70	20	N	N	150	<5	N
I6305840	300	1	N	N	10	50	30	15	N	<50	50	<5	N
I6305860	300	1	N	N	10	30	30	10	N	<50	70	<5	N
I6305870	300	1	N	N	10	30	50	7	N	N	50	<5	N
I6305880	300	1	N	N	15	50	50	10	N	N	70	<5	N
I6305900	300	1	N	N	10	30	50	7	N	N	70	<5	N
I6305920	300	1	N	N	20	50	30	7	N	N	50	<5	N
I6305940	200	1	N	N	<10	30	50	7	N	N	50	<5	20
I6305960	300	1	N	N	10	50	20	10	N	N	30	<5	<20
I6305970	100	2	N	N	15	30	50	20	N	<50	70	<5	20

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6304850	<5	<10	N	N	N	<100	N	10	50	N	N	50	.01	10
I6304870	<5	<10	N	N	N	<100	N	10	70	N	N	50	.01	10
I6304890	<5	<10	N	N	N	<100	N	20	<20	N	N	50	.01	10
I6304900	<5	<10	N	N	N	<100	N	15	30	N	N	50	.01	10
I6304910	<5	<10	N	N	N	<100	N	10	<20	N	N	100	.01	10
I6304930	<5	<10	N	N	N	<100	N	20	200	N	N	70	.01	10
I6304950	<5	<10	N	N	N	<100	N	15	300	N	N	100	.01	10
I6304970	<5	<10	N	N	N	<100	N	10	70	N	N	150	<.01	10
I6304990	<5	<10	N	N	N	<100	N	10	70	N	N	150	<.01	10
I6305010	<5	<10	N	N	N	<100	N	20	20	N	N	150	.01	10
I6305030	<5	<10	N	N	N	<100	N	50	<20	N	N	150	.01	10
I6305050	<5	<10	N	<5	N	<100	N	50	20	N	N	200	.04	10
I6305070	<5	<10	N	<5	N	<100	N	50	<20	N	N	100	.04	10
I6305090	<5	<10	N	5	N	<100	N	70	<20	N	N	300	.06	10
I6305110	<5	<10	N	<5	N	<100	N	50	<20	N	N	200	.04	10
I6305130	<5	<10	N	<5	N	<100	N	70	<20	N	N	200	.04	10
I6305150	7	<10	N	5	N	<100	N	70	<20	N	N	200	.04	10
I6305170	10	15	N	5	N	<100	N	100	20	N	N	200	.04	10
I6305190	15	10	N	5	N	<100	N	70	<20	N	N	200	.05	10
I6305210	15	<10	N	5	N	<100	N	100	<20	N	N	150	.04	10
I6305230	15	<10	N	5	N	100	N	100	<20	<10	N	150	.05	10
I6305250	30	30	N	7	N	<100	N	50	<20	<10	N	150	.06	10
I6305270	30	20	N	7	N	200	N	150	<20	<10	N	150	.06	10
I6305290	20	10	N	10	N	<100	N	150	<20	10	N	150	.07	15
I6305300	50	20	N	10	N	<100	N	150	<20	10	N	300	.07	15
I6305320	50	100	N	10	N	<100	N	150	<20	10	N	300	.08	15
I6305340	30	150	N	10	N	<100	N	100	<20	10	N	300	.14	15
I6305360	30	20	N	10	N	<100	N	100	<20	<10	N	300	.11	15
I6305380	20	<10	N	10	N	<100	N	100	<20	<10	N	300	.09	15
I6305390	15	10	N	7	20	<100	N	100	<20	<10	N	300	.08	15
I6305410	20	<10	N	7	N	<100	N	100	<20	10	N	300	.07	15
I6305430	30	15	N	10	N	<100	N	100	70	15	N	300	.06	15
I6305450	50	10	N	10	N	<100	N	150	<20	10	<200	300	.05	15
I6305470	50	50	N	10	N	<100	N	200	<20	15	<200	500	.06	15
I6305490	50	15	N	10	N	<100	N	200	<20	10	<200	500	.07	15
I6305510	50	30	N	15	N	<100	N	200	<20	10	<200	500	.09	15
I6305520	20	10	N	5	N	<100	N	100	<20	<10	<200	300	.02	15
I6305540	20	20	N	5	N	<100	N	100	20	<10	<200	300	.03	15
I6305560	7	10	N	5	N	<100	N	50	<20	<10	<200	150	.03	15
I6305580	7	10	N	<5	N	<100	N	50	<20	N	N	100	.02	15
I6305600	10	10	N	5	N	100	N	150	<20	N	N	70	.05	15
I6305620	10	10	N	5	N	100	N	150	<20	<10	N	100	.09	15
I6305640	30	30	N	15	N	100	N	200	<20	10	<200	300	.15	15
I6305660	20	<10	N	15	N	100	N	200	<20	30	N	500	.07	22
I6305680	30	10	N	15	N	100	N	200	<20	20	200	300	.06	22
I6305700	50	10	N	20	N	100	N	200	<20	30	N	300	.05	22
I6305720	70	<10	N	20	N	100	N	200	<20	20	N	300	.06	22
I6305750	50	<10	N	15	N	100	N	150	<20	20	N	300	.04	22
I6305770	30	10	N	20	N	100	N	200	<20	30	<200	500	.04	22
I6305800	30	<10	N	20	N	100	N	200	<20	20	N	200	.05	22
I6305820	20	10	N	10	N	100	N	150	<20	15	<200	300	.05	22
I6305840	30	<10	N	10	N	100	N	100	<20	15	N	300	.05	22
I6305860	30	<10	N	7	N	100	N	100	<20	15	N	200	.03	22
I6305870	30	<10	N	7	N	100	N	150	<20	10	N	200	.04	25,26
I6305880	30	<10	N	7	N	100	N	150	<20	15	N	200	.04	25,26
I6305900	20	<10	N	7	N	100	N	100	<20	10	N	200	.04	25,26
I6305920	20	<10	N	7	N	200	N	100	30	10	N	150	.04	25,26
I6305940	20	<10	N	7	N	100	N	100	<20	10	<200	200	.04	25,26
I6305960	30	<10	N	7	N	100	N	150	<20	15	N	300	.05	25,26
I6305970	50	30	N	5	N	<100	N	50	<20	<10	N	200	.08	25,26

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6305980	37 35 39	88 30 39	.1	2	.5	.5	<.2	.5	N	N	N	150
I6305990	37 35 39	88 30 39	.2	2	.7	.3	<.2	.3	N	N	N	200
I6306000	37 35 39	88 30 39	.1	3	.5	.5	<.2	.5	N	N	N	150
I6306020	37 35 39	88 30 39	.15	2	.5	.2	<.2	.5	N	N	N	150
I6306040	37 35 39	88 30 39	.2	2	.3	.2	<.2	.3	N	N	N	100
I6306060	37 35 39	88 30 39	.2	3	.2	<.2	<.2	.2	N	N	N	70
I6306120	37 35 39	88 30 39	.3	.5	.2	<.2	<.2	.03	N	N	N	20
I6306130	37 35 39	88 30 39	.2	2	.15	<.2	<.2	.1	N	N	N	50
I6306140	37 35 39	88 30 39	.2	1	.2	<.2	<.2	.1	N	N	N	50
I6306150	37 35 39	88 30 39	.3	2	.2	<.2	<.2	.2	N	N	N	50
I6306170	37 35 39	88 30 39	.15	.2	.15	<.2	<.2	.05	N	N	N	20
I6306180	37 35 39	88 30 39	.3	1.5	.1	<.2	<.2	.1	N	N	N	15
I6306190	37 35 39	88 30 39	.2	1.5	.2	<.2	<.2	.15	N	N	N	50
I6306210	37 35 39	88 30 39	.15	5	.5	<.2	<.2	.2	N	N	N	150
I6306230	37 35 39	88 30 39	.15	2	.5	<.2	<.2	.2	N	N	N	100
I6306240	37 35 39	88 30 39	.2	1.5	.5	<.2	<.2	.15	N	N	N	100
I6306250	37 35 39	88 30 39	.15	.7	.3	<.2	<.2	.1	N	N	N	50
I6306260	37 35 39	88 30 39	.15	.7	.15	<.2	<.2	.1	N	N	N	50
I6306270	37 35 39	88 30 39	.15	.2	.1	<.2	<.2	.03	N	N	N	30
I6306280	37 35 39	88 30 39	.15	.2	.07	<.2	<.2	.03	N	N	N	30
I6306290	37 35 39	88 30 39	.2	.5	.2	<.2	<.2	.05	N	N	N	30
I6306310	37 35 39	88 30 39	.2	2	.1	<.2	<.2	.15	N	N	N	50
I6306320	37 35 39	88 30 39	.5	1.5	.3	.2	<.2	.15	N	N	N	50
I6306330	37 35 39	88 30 39	1.5	.5	.5	<.2	<.2	.1	N	N	N	30
I6306340	37 35 39	88 30 39	1	.7	.1	<.2	<.2	.15	N	N	N	30
I6306350	37 35 39	88 30 39	1	1.5	.2	.7	<.2	.2	N	N	N	50
I6306360	37 35 39	88 30 39	.15	3	.5	.3	<.2	.3	N	N	N	100
I6306370	37 35 39	88 30 39	.5	5	.5	.3	<.2	.3	N	N	N	100
I6306380	37 35 39	88 30 39	.07	7	1	.3	<.2	.5	N	N	N	500
I6306390	37 35 39	88 30 39	.07	7	1	.2	<.2	.3	N	N	N	300
I6306400	37 35 39	88 30 39	.2	7	1	.3	<.2	.5	N	N	N	500
I6306410	37 35 39	88 30 39	.15	7	.5	<.2	<.2	.2	N	N	N	150
I6306420	37 35 39	88 30 39	.1	7	.7	<.2	<.2	.3	N	N	N	200
I6306430	37 35 39	88 30 39	.1	7	1	.2	<.2	.5	N	N	N	150
I6306440	37 35 39	88 30 39	.07	5	.7	.2	<.2	.3	N	N	N	150
I6306450	37 35 39	88 30 39	.07	5	.7	.2	<.2	.3	N	N	N	100
I6306460	37 35 39	88 30 39	.07	5	1	.2	<.2	.5	N	N	N	100
I6306470	37 35 39	88 30 39	.07	5	1	.2	<.2	.5	N	N	N	100
I6306480	37 35 39	88 30 39	.1	3	1.5	.5	<.2	.3	N	N	N	300
I6306490	37 35 39	88 30 39	.15	5	1	.3	<.2	.5	N	N	N	300
I6306500	37 35 39	88 30 39	.15	7	1	.3	<.2	.5	N	N	N	200
I6306510	37 35 39	88 30 39	.1	5	1	.2	<.2	.3	N	N	N	200
I6306530	37 35 39	88 30 39	.1	5	1	.3	<.2	.5	N	N	N	200
I6306540	37 35 39	88 30 39	.15	5	.7	1	<.2	.3	N	N	N	150
I6306560	37 35 39	88 30 39	.1	5	.5	.3	<.2	.3	N	N	N	200
I6306580	37 35 39	88 30 39	.15	7	.5	.3	<.2	.3	N	N	N	150
I6306600	37 35 39	88 30 39	.1	10	.7	.2	<.2	.5	N	N	N	200
I6306620	37 35 39	88 30 39	.15	7	.7	.5	<.2	.3	N	N	N	200
I6306630	37 35 39	88 30 39	.1	7	1	.3	<.2	.5	N	N	N	200
I6306650	37 35 39	88 30 39	.07	7	1	.3	<.2	.5	N	N	N	200
I6306660	37 35 39	88 30 39	.1	5	1	.2	<.2	.3	N	N	N	200
I6306670	37 35 39	88 30 39	.2	15	1	.2	<.2	.7	N	N	N	200
I6306680	37 35 39	88 30 39	.1	10	1	.2	<.2	.7	N	N	N	200
I6306700	37 35 39	88 30 39	5	5	1	.2	<.2	.3	N	N	N	150
I6306720	37 35 39	88 30 39	15	5	.7	.2	<.2	.2	N	N	N	200
I6306730	37 35 39	88 30 39	20	3	.5	<.2	<.2	.15	N	N	N	200
I6306740	37 35 39	88 30 39	20	5	.5	.2	<.2	.2	N	N	N	150
I6306750	37 35 39	88 30 39	>20	10	.3	<.2	<.2	.1	N	N	N	50
I6306760	37 35 39	88 30 39	15	3	1	.2	<.2	.3	N	N	N	300
I6306780	37 35 39	88 30 39	20	2	.7	.2	<.2	.2	3	N	N	200

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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
I6305980	200	1.5	N	N	15	50	30	10	N	N	70	<5	<20
I6305990	100	1.5	N	N	<10	20	20	7	N	N	70	<5	N
I6306000	200	1.5	N	N	10	50	30	10	N	N	70	<5	<20
I6306020	150	1.5	N	N	<10	30	20	10	N	N	100	<5	<20
I6306040	100	1	N	N	<10	30	70	7	N	N	70	<5	<20
I6306060	200	1.5	N	N	10	50	100	7	N	N	100	15	<20
I6306120	20	<1	N	N	N	10	5	<5	N	N	<10	<5	N
I6306130	70	<1	N	N	N	70	15	5	N	N	100	30	N
I6306140	150	<1	N	N	N	30	7	5	N	N	50	10	N
I6306150	100	<1	N	N	N	20	10	5	N	N	70	10	N
I6306170	<20	<1	N	N	N	<10	15	<5	N	N	<10	5	N
I6306180	50	<1	N	N	N	20	10	<5	N	N	20	5	N
I6306190	100	<1	N	N	N	20	10	5	N	N	50	10	N
I6306210	150	1	N	N	N	70	15	10	N	N	100	30	N
I6306230	100	1	N	N	N	70	15	7	N	N	50	5	N
I6306240	100	1	N	N	N	20	10	5	N	N	50	5	N
I6306250	50	<1	N	N	N	10	5	<5	N	N	20	<5	N
I6306260	30	<1	N	N	N	30	5	<5	N	N	20	<5	N
I6306270	<20	<1	N	N	N	15	7	<5	N	N	10	<5	N
I6306280	<20	<1	N	N	N	15	20	5	N	N	<10	<5	N
I6306290	<20	<1	N	N	<10	15	5	5	N	N	20	5	N
I6306310	50	<1	N	N	<10	30	20	5	N	N	50	20	N
I6306320	70	<1	N	N	<10	20	15	5	N	N	50	15	N
I6306330	70	<1	N	N	<10	15	10	5	N	N	20	<5	N
I6306340	50	<1	N	N	<10	30	10	5	N	N	50	5	N
I6306350	100	<1	N	N	<10	70	20	7	N	N	100	20	N
I6306360	150	<1	N	N	<10	70	50	10	N	N	100	10	N
I6306370	150	1	N	N	<10	100	50	10	N	N	200	50	N
I6306380	300	1.5	N	N	15	100	70	30	N	N	300	10	N
I6306390	200	1.5	N	N	10	100	70	50	N	N	200	10	N
I6306400	300	1.5	N	N	15	100	100	50	N	N	200	5	N
I6306410	150	1	N	N	<10	150	70	20	N	N	200	100	N
I6306420	200	1.5	N	N	10	150	70	30	N	N	500	150	N
I6306430	300	1	N	N	20	150	100	30	N	N	200	50	N
I6306440	200	1	N	N	15	150	100	30	N	N	150	50	N
I6306450	150	1	N	N	15	100	50	20	N	N	150	30	N
I6306460	500	1	N	N	20	100	100	15	N	N	150	30	N
I6306470	300	1	N	N	20	100	100	30	N	N	100	30	N
I6306480	200	1.5	N	N	15	100	100	50	N	N	150	20	N
I6306490	200	1	N	N	15	100	70	30	N	N	200	30	N
I6306500	200	1	N	N	20	150	50	50	N	N	150	50	N
I6306510	200	1	N	N	20	150	50	50	N	N	100	20	N
I6306530	300	1	N	N	20	100	50	50	N	N	100	30	N
I6306540	150	1	N	N	20	100	70	50	N	N	100	10	N
I6306560	150	1	N	N	10	150	30	15	N	N	150	50	<20
I6306580	100	1	N	N	10	200	30	15	N	N	200	70	<20
I6306600	150	1	N	N	15	200	70	20	N	N	200	200	N
I6306620	150	2	N	N	10	150	30	20	N	N	300	50	N
I6306630	200	1.5	N	N	20	150	70	30	N	N	150	30	N
I6306650	200	1.5	N	N	20	150	70	30	N	N	200	30	N
I6306660	150	1	N	N	20	100	70	30	N	N	150	10	N
I6306670	300	1	N	N	30	150	100	50	N	N	200	20	<20
I6306680	200	1	N	N	20	200	50	30	N	N	200	70	N
I6306700	1,000	1	N	N	10	150	30	20	N	N	150	10	N
I6306720	1,500	<1	N	N	10	100	20	5	N	N	70	<5	N
I6306730	200	<1	N	N	<10	70	10	<5	N	N	50	<5	N
I6306740	700	<1	N	N	<10	150	70	5	N	N	70	<5	N
I6306750	700	<1	N	N	<10	70	15	5	N	N	30	<5	N
I6306760	500	1	N	N	<10	70	50	5	N	N	70	<5	N
I6306780	200	<1	N	N	<10	50	70	<5	N	N	50	<5	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6305980	50	10	N	7	N	100	N	100	<20	15	N	300	.06	25,26
I6305990	15	<10	N	5	N	100	N	50	<20	<10	N	200	.11	25,26
I6306000	50	<10	N	10	N	100	N	100	<20	15	N	300	.06	25,26
I6306020	20	<10	N	7	N	100	N	100	150	<10	N	150	.04	25,26
I6306040	20	<10	N	7	N	100	N	70	<20	N	N	150	.05	25,26
I6306060	30	70	N	7	N	100	N	100	20	10	N	100	.05	25,26
I6306120	5	<10	N	N	N	100	N	<10	<20	N	N	20	.02	25,26
I6306130	20	15	N	<5	N	100	N	20	200	N	N	50	.07	25,26
I6306140	10	<10	N	N	N	100	N	15	20	N	N	30	.04	25,26
I6306150	20	<10	N	<5	N	100	N	20	<20	N	N	100	.06	25,26
I6306170	<5	<10	N	N	N	100	N	<10	<20	N	N	10	.01	25,26
I6306180	5	<10	N	N	N	100	N	20	50	N	<200	100	.01	25,26
I6306190	10	<10	N	N	N	100	N	20	50	N	N	50	.04	25,26
I6306210	30	<10	N	5	N	100	N	100	<20	N	N	100	.1	25,26
I6306230	20	<10	N	5	N	100	N	50	20	N	N	100	.11	25,26
I6306240	10	<10	N	5	N	100	N	50	30	N	N	50	.06	25,26
I6306250	10	<10	N	N	N	100	N	15	<20	N	N	20	.04	25,26
I6306260	7	<10	N	N	N	100	N	15	<20	N	N	20	.04	25,26
I6306270	5	<10	N	N	N	100	N	<10	20	N	N	10	.02	25,26
I6306280	5	<10	N	N	N	100	N	10	150	N	N	10	.01	25,26
I6306290	7	<10	N	N	N	<100	N	10	<20	N	N	50	.02	25,26
I6306310	15	<10	N	N	N	<100	N	20	100	N	N	50	.04	25,26
I6306320	15	<10	N	N	N	<100	N	20	100	N	N	50	.04	25,26
I6306330	10	<10	N	N	N	<100	N	20	<20	N	N	50	.02	25,26
I6306340	10	<10	N	N	N	<100	N	30	70	N	N	30	.03	25,26
I6306350	20	<10	N	<5	N	<100	N	30	200	N	N	50	.03	25,26
I6306360	20	<10	N	5	N	<100	N	50	1,000	N	N	100	.09	25,26
I6306370	30	<10	N	5	N	<100	N	50	100	N	N	100	.07	25,26
I6306380	50	15	N	10	N	<100	N	100	50	N	<200	100	.18	25,26
I6306390	50	30	N	10	N	<100	N	100	50	N	<200	100	.29	25,26
I6306400	50	20	N	15	N	<100	N	100	<20	N	300	100	.29	25,26
I6306410	30	<10	N	7	N	<100	N	70	70	N	200	70	.11	25,26
I6306420	50	20	N	7	N	<100	N	100	150	N	200	70	.16	25,26
I6306430	70	15	N	10	N	<100	N	100	100	N	<200	100	.18	25,26
I6306440	30	15	N	5	N	<100	N	100	100	N	<200	100	.18	25,26
I6306450	30	15	N	5	N	<100	N	100	100	N	<200	100	.15	25,26
I6306460	50	15	N	5	N	<100	N	100	100	N	<200	100	.17	25,26
I6306470	50	15	N	7	N	<100	N	150	<20	N	200	100	.3	25,26
I6306480	50	15	N	5	N	<100	N	100	<20	N	<200	100	.22	25,26
I6306490	50	15	N	5	N	<100	N	100	50	N	<200	100	.22	25,26
I6306500	50	10	N	7	N	<100	N	100	50	N	<200	100	.27	25,26
I6306510	50	10	N	7	N	<100	N	100	<20	N	300	100	.28	25,26
I6306530	50	10	N	10	N	<100	N	150	<20	N	N	100	.24	25,26
I6306540	50	10	N	7	N	<100	N	100	50	N	N	100	.19	25,26
I6306560	50	10	N	7	N	<100	N	100	100	N	N	100	.13	25,26
I6306580	50	10	N	10	N	<100	N	70	300	N	<200	100	.13	25,26
I6306600	50	150	N	10	N	<100	N	100	150	N	200	100	.15	25,26
I6306620	30	5,000	N	7	N	<100	N	70	150	N	<200	70	.18	25,26
I6306630	50	50	N	10	N	<100	N	150	30	N	N	100	.19	30
I6306650	50	500	N	10	N	<100	N	150	20	N	N	100	.3	30
I6306660	50	30	N	7	N	<100	N	100	<20	N	N	50	.26	30
I6306670	100	200	N	10	N	<100	N	200	<20	N	300	150	.33	30
I6306680	70	<10	N	10	N	<100	N	150	<20	N	N	100	.24	30
I6306700	30	70	N	7	N	>5,000	N	100	<20	N	<200	70	.29	30
I6306720	20	30	N	7	N	>5,000	N	70	<20	N	N	70	.21	30
I6306730	15	<10	N	5	N	>5,000	N	20	<20	N	N	30	.07	30
I6306740	20	10	N	5	N	>5,000	N	30	<20	N	N	100	.12	30
I6306750	10	<10	N	<5	N	>5,000	N	20	<20	N	N	20	.76	30
I6306760	20	10	N	5	N	>5,000	N	70	<20	N	300	70	.28	30
I6306780	15	300	N	<5	N	>5,000	N	30	<20	N	N	50	.36	30

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6306800	37 35 39	88 30 39	10	2	.3	.5	<.2	.3	N	N	N	200
I6306810	37 35 39	88 30 39	20	1.5	.2	.3	<.2	.3	N	N	N	200
I6306820	37 35 39	88 30 39	20	1	1	<.2	<.2	.2	N	N	N	150
I6306830	37 35 39	88 30 39	20	2	.5	<.2	<.2	.2	N	N	N	150
I6306840	37 35 39	88 30 39	2	5	1	.2	<.2	.5	N	N	N	200
I6306850	37 35 39	88 30 39	10	5	1	<.2	<.2	.3	N	N	N	300
I6306860	37 35 39	88 30 39	15	2	.3	.3	<.2	.2	N	N	N	100
I6306870	37 35 39	88 30 39	1.5	3	.15	2	<.2	.3	N	N	N	30
I6306890	37 35 39	88 30 39	.3	2	.1	1.5	<.2	.5	N	N	N	20
I6306910	37 35 39	88 30 39	.2	2	.1	1	<.2	.3	N	N	N	20
I6306930	37 35 39	88 30 39	.15	2	.1	1	<.2	.3	N	N	N	15
I6306940	37 35 39	88 30 39	.05	1.5	.15	1.5	<.2	.3	<.5	N	N	20
I6306950	37 35 39	88 30 39	.07	2	.15	1.5	<.2	.3	<.5	N	N	50
I6306960	37 35 39	88 30 39	<.05	1.5	.7	.5	<.2	.3	N	N	N	150
I6306970	37 35 39	88 30 39	<.05	.1	.03	<.2	<.2	.03	N	N	N	10
I6306980	37 35 39	88 30 39	.15	1	.2	.3	<.2	.15	<.5	N	N	100
I6306990	37 35 39	88 30 39	.07	1	.5	<.2	<.2	.2	<.5	N	N	100
I6307000	37 35 39	88 30 39	<.05	.1	.05	<.2	<.2	.05	N	N	N	15
I6307020	37 35 39	88 30 39	<.05	.7	.3	<.2	<.2	.2	N	N	N	100
I6307040	37 35 39	88 30 39	<.05	.5	.2	.2	<.2	.15	N	N	N	50
I6307130	37 35 39	88 30 39	.07	5	1	.2	<.2	.5	N	N	N	200
I6307170	37 35 39	88 30 39	.05	5	1	.2	<.2	.5	N	N	N	200
I6307200	37 35 39	88 30 39	.07	5	1	.2	<.2	.5	N	N	N	200
I6307220	37 35 39	88 30 39	.1	5	1	.3	<.2	.7	N	N	N	200
I6307230	37 35 39	88 30 39	.1	3	1	.2	<.2	.7	N	N	N	200
I6307260	37 35 39	88 30 39	.15	3	1	.2	<.2	.5	N	N	N	200
I6307280	37 35 39	88 30 39	.15	5	1	<.2	<.2	.7	N	N	N	200
I6307300	37 35 39	88 30 39	.05	5	1	<.2	<.2	.5	N	N	N	200
I6307320	37 35 39	88 30 39	.05	3	1	<.2	<.2	.5	N	N	N	200
I6307330	37 35 39	88 30 39	<.05	1	.3	<.2	<.2	.2	N	N	N	70
I6307340	37 35 39	88 30 39	<.05	.07	.07	<.2	<.2	.07	N	N	N	20
I6307360	37 35 39	88 30 39	<.05	.05	.02	<.2	<.2	.05	N	N	N	<10
I6307380	37 35 39	88 30 39	<.05	.07	.02	<.2	<.2	.05	N	N	N	<10
I6307400	37 35 39	88 30 39	<.05	.07	.03	<.2	<.2	.05	N	N	N	<10
I6307420	37 35 39	88 30 39	.05	.5	.2	<.2	<.2	.1	N	N	N	50
I6307440	37 35 39	88 30 39	<.05	.07	.03	<.2	<.2	.05	N	N	N	<10
I6307460	37 35 39	88 30 39	<.05	.05	.02	<.2	<.2	.05	N	N	N	<10
I6307500	37 35 39	88 30 39	<.05	.07	.02	<.2	<.2	.03	N	N	N	<10
I6307510	37 35 39	88 30 39	.2	.5	.1	<.2	<.2	.1	N	N	N	20
I6307520	37 35 39	88 30 39	.15	1.5	.3	.2	<.2	.2	N	N	N	100
I6307550	37 35 39	88 30 39	.2	1.5	.2	1.5	<.2	.1	<.5	N	N	20
I6307560	37 35 39	88 30 39	.5	1	.3	<.2	<.2	.2	<.5	N	N	50
I6307580	37 35 39	88 30 39	.2	.5	.15	.5	<.2	.1	<.5	N	N	15
I6307600	37 35 39	88 30 39	.05	.7	.15	.3	<.2	.1	<.5	N	N	20
I6307610	37 35 39	88 30 39	.05	1	.15	.7	<.2	.15	<.5	N	N	100
I6307630	37 35 39	88 30 39	<.05	.15	.03	<.2	<.2	.03	N	N	N	<10
I6307640	37 35 39	88 30 39	.05	1.5	.15	<.2	<.2	.2	.7	N	N	50
I6307660	37 35 39	88 30 39	.07	2	.15	.3	<.2	.2	<.5	N	N	20
I6307680	37 35 39	88 30 39	<.05	.7	.1	<.2	<.2	.05	N	<200	N	10
I6307700	37 35 39	88 30 39	<.05	.3	.05	<.2	<.2	.05	N	N	N	10
I6307720	37 35 39	88 30 39	<.05	.05	<.02	<.2	<.2	.002	N	N	N	<10
I6307730	37 35 39	88 30 39	<.05	.5	<.02	<.2	<.2	.07	N	N	N	<10
I6307740	37 35 39	88 30 39	.1	2	.05	1	<.2	.15	<.5	N	N	10
I6307760	37 35 39	88 30 39	.05	.2	.02	<.2	<.2	.03	N	N	N	<10
I6307770	37 35 39	88 30 39	<.05	.3	.03	.2	<.2	.15	N	<200	N	<10
I6307780	37 35 39	88 30 39	<.05	.7	.05	1.5	<.2	.15	N	N	N	<10
I6307790	37 35 39	88 30 39	.05	1	.15	1.5	<.2	.2	<.5	N	N	20
I6307800	37 35 39	88 30 39	<.05	.5	.15	1	<.2	.2	N	N	N	20
I6307810	37 35 39	88 30 39	<.05	.3	.1	.2	<.2	.1	N	N	N	<10
I6307830	37 35 39	88 30 39	<.05	.7	.3	1.5	<.2	.2	<.5	N	N	30

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6306800	1,500	<1	N	N	15	70	100	10	N	N	50	<5	N
I6306810	100	<1	N	N	10	20	70	<5	N	N	30	<5	N
I6306820	300	<1	N	N	10	30	50	<5	N	N	50	<5	N
I6306830	500	<1	N	N	10	50	30	<5	N	N	30	<5	N
I6306840	1,000	1	N	N	20	70	70	10	N	N	150	10	N
I6306850	2,000	1	N	N	15	70	70	10	N	N	150	7	N
I6306860	300	<1	N	N	10	15	20	5	N	N	30	<5	N
I6306870	1,000	<1	N	N	15	15	70	15	N	N	100	10	N
I6306890	700	<1	N	N	15	15	50	10	N	N	30	<5	N
I6306910	700	<1	N	N	15	15	70	10	N	N	30	30	N
I6306930	700	<1	N	N	10	20	30	15	N	N	70	15	<20
I6306940	300	<1	N	N	15	20	50	15	N	N	20	7	N
I6306950	700	<1	N	N	15	20	30	15	N	N	100	10	N
I6306960	300	1	N	N	15	50	20	10	N	N	50	10	N
I6306970	500	<1	N	N	N	10	5	<5	N	N	15	<5	N
I6306980	200	<1	N	N	10	20	15	5	N	N	50	10	N
I6306990	1,000	<1	N	N	10	50	20	7	N	N	20	10	N
I6307000	100	<1	N	N	N	10	<5	<5	N	N	<10	<5	N
I6307020	200	<1	N	N	10	30	10	5	N	N	20	5	N
I6307040	200	<1	N	N	<10	30	7	5	N	N	20	7	N
I6307130	300	1	N	N	20	100	50	30	N	N	150	20	N
I6307170	500	1	N	N	20	100	50	20	N	N	100	5	<20
I6307200	300	1	N	N	20	100	50	30	N	N	150	10	N
I6307220	500	1	N	N	20	100	70	50	N	<50	100	10	<20
I6307230	500	1	N	N	30	70	100	15	N	N	30	<5	N
I6307260	200	1.5	N	N	15	100	50	50	N	N	70	<5	N
I6307280	300	1	N	N	20	100	50	20	N	50	100	<5	N
I6307300	200	1	N	N	20	70	50	20	N	<50	70	<5	<20
I6307320	200	1	N	N	15	70	50	20	N	<50	70	<5	N
I6307330	200	<1	N	N	10	20	20	5	N	N	20	<5	<20
I6307340	70	<1	N	N	<10	15	5	<5	N	N	<10	<5	N
I6307360	50	<1	N	N	<10	<10	<5	<5	N	N	<10	<5	N
I6307380	20	<1	N	N	<10	<10	<5	<5	N	N	<10	<5	N
I6307400	100	<1	N	N	<10	<10	<5	<5	N	N	<10	<5	N
I6307420	150	<1	N	N	<10	<10	5	<5	N	N	<10	<5	N
I6307440	30	<1	N	N	<10	<10	5	<5	N	N	<10	<5	N
I6307460	50	<1	N	N	<10	<10	5	<5	N	N	<10	<5	N
I6307500	30	<1	N	N	<10	<10	5	<5	N	N	<10	<5	N
I6307510	50	<1	N	N	<10	<10	10	5	N	N	10	15	N
I6307520	50	2	N	N	10	20	50	10	N	N	50	20	<20
I6307550	150	<1	N	N	15	20	30	10	N	N	50	20	N
I6307560	100	1	N	N	20	50	150	15	N	N	30	5	N
I6307580	100	N	N	N	N	10	20	5	N	N	15	<5	N
I6307600	50	<1	N	N	10	15	30	10	N	N	10	20	<20
I6307610	500	N	N	N	<10	<10	70	15	N	N	10	50	N
I6307630	300	N	N	N	N	10	10	7	N	N	10	30	N
I6307640	500	1	N	N	20	30	300	15	N	N	15	50	<20
I6307660	100	1	N	N	10	20	100	10	N	N	10	15	<20
I6307680	70	N	N	N	15	10	10	7	N	N	10	5	N
I6307700	70	N	N	N	N	10	10	7	N	N	<10	5	N
I6307720	N	N	N	N	N	<10	7	<5	N	N	<10	<5	N
I6307730	50	N	N	N	N	10	30	7	N	N	<10	5	N
I6307740	100	N	N	N	10	10	30	15	N	N	10	15	<20
I6307760	20	N	N	N	N	10	7	5	N	N	<10	<5	N
I6307770	100	N	N	N	N	<10	15	10	N	N	<10	<5	<20
I6307780	300	N	N	N	N	<10	30	20	N	N	<10	<5	20
I6307790	500	N	N	N	<10	20	200	30	N	N	15	<5	<20
I6307800	200	N	N	N	<10	10	150	20	N	N	<10	<5	<20
I6307810	100	N	N	N	N	10	15	10	N	N	<10	<5	<20
I6307830	500	N	N	N	<10	10	30	30	N	N	<10	<5	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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 #
I6306800	50	20	N	5	N	>5,000	N	50	N	N	N	150	.34	30
I6306810	30	<10	N	<5	N	>5,000	N	15	N	N	N	50	.08	30
I6306820	20	15	N	5	N	>5,000	N	30	N	N	300	150	.36	30
I6306830	20	100	N	<5	N	>5,000	N	20	<20	N	N	100	.11	30
I6306840	70	20	N	10	N	>5,000	N	150	30	N	N	150	.25	30
I6306850	70	20	N	7	N	>5,000	N	100	<20	N	N	150	.34	30
I6306860	20	<10	N	N	N	>5,000	N	20	N	N	N	150	.07	30
I6306870	50	30	N	<5	N	>5,000	N	15	20	N	N	100	.14	30
I6306890	50	20	N	<5	N	5,000	N	15	100	N	N	300	.16	30
I6306910	30	50	N	N	N	5,000	N	15	<20	N	N	200	.02	30
I6306930	30	50	N	<5	N	5,000	N	10	<20	N	N	300	.12	30
I6306940	30	20	N	5	N	100	N	15	100	N	N	200	.09	30
I6306950	30	30	N	5	N	100	N	30	<20	N	N	150	.07	30
I6306960	30	20	N	5	N	100	N	50	20	N	N	200	.18	30
I6306970	5	10	N	N	N	200	N	<10	50	N	N	100	.02	30
I6306980	20	1,500	N	<5	N	700	N	20	50	N	N	200	.06	30
I6306990	20	300	N	N	N	100	N	50	20	N	N	300	.08	30
I6307000	5	30	N	N	N	100	N	10	20	N	N	150	.01	30
I6307020	20	15	N	<5	N	100	N	20	20	N	N	150	.07	30
I6307040	15	10	N	N	N	100	N	20	20	N	N	150	.05	30
I6307130	50	50	N	7	N	150	N	100	<20	<10	<200	200	.11	30
I6307170	50	20	N	7	N	150	N	100	<20	<10	<200	150	.09	31
I6307200	50	20	N	5	N	100	N	70	<20	<10	<200	200	.11	31
I6307220	50	20	N	7	N	100	N	100	<20	10	N	200	.07	31
I6307230	100	10	N	5	N	150	N	100	<20	<10	<200	200	.08	31
I6307260	20	30	N	5	N	100	N	50	<20	N	N	150	.1	31
I6307280	20	10	N	5	N	100	N	70	<20	N	<200	150	.08	31
I6307300	20	20	N	5	N	100	N	70	<20	N	200	200	.05	31
I6307320	20	20	N	5	N	100	N	50	<20	N	N	200	.07	31
I6307330	10	100	N	<5	N	100	N	20	20	N	N	500	.03	32
I6307340	5	<10	N	N	N	100	N	10	20	N	N	150	<.01	32
I6307360	<5	<10	N	N	N	100	N	<10	30	N	N	200	<.01	32
I6307380	<5	50	N	N	N	100	N	<10	20	N	N	300	<.01	32
I6307400	<5	<10	N	N	N	500	N	<10	20	N	N	300	<.01	32
I6307420	<5	30	N	N	N	150	N	20	20	N	N	500	.01	32
I6307440	<5	<10	N	N	N	100	N	20	30	N	N	>1,000	.01	32
I6307460	<5	<10	N	N	N	100	N	20	50	N	N	>1,000	<.01	32
I6307500	5	<10	N	N	N	100	N	20	50	N	N	300	<.01	32
I6307510	10	<10	N	N	N	1,000	N	20	20	N	N	200	<.01	41
I6307520	70	70	N	N	N	150	N	50	30	N	N	300	.06	41
I6307550	50	100	N	N	N	200	N	20	30	N	N	100	.11	41
I6307560	50	20	N	5	N	100	N	30	<20	N	<200	200	.07	41
I6307580	15	<10	N	N	20	<100	N	10	<20	N	N	70	.03	41
I6307600	20	100	N	N	200	<100	N	20	<20	N	<200	150	.03	41
I6307610	30	70	N	N	200	<100	N	50	<20	N	500	100	.07	41
I6307630	5	<10	N	N	N	<100	N	10	20	N	N	100	.02	41
I6307640	50	50	N	N	200	<100	N	50	<20	N	300	300	.06	41
I6307660	20	50	N	N	50	<100	N	20	<20	N	N	200	.08	41
I6307680	10	<10	N	N	N	<100	N	15	70	N	N	200	.03	41
I6307700	7	10	N	N	N	<100	N	15	20	N	N	200	.01	41
I6307720	<5	<10	N	N	N	<100	N	10	<20	N	N	20	<.01	41
I6307730	7	<10	N	N	N	<100	N	10	<20	N	N	100	<.01	41
I6307740	30	50	N	N	N	<100	N	20	20	N	N	150	.09	41
I6307760	5	<10	N	N	N	<100	N	15	20	N	N	100	.02	41
I6307770	7	20	N	N	N	<100	N	15	20	N	<200	200	.02	41
I6307780	15	20	N	N	N	<100	N	15	20	N	N	200	.02	41
I6307790	15	50	N	N	N	150	N	20	20	N	500	150	.07	41
I6307800	15	50	N	N	N	<100	N	30	<20	<10	300	150	.08	41
I6307810	10	100	N	N	N	<100	N	10	70	<10	N	200	.06	41
I6307830	15	200	N	N	N	>5,000	N	30	<20	<10	N	70	.17	41

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6307850	37 35 39	88 30 39	.05	1	.5	.5	<.2	.2	<.5	N	N	50
I6307870	37 35 39	88 30 39	<.05	.7	.5	1.5	<.2	.2	<.5	N	N	30
I6307890	37 35 39	88 30 39	.05	.5	.15	3	<.2	.3	<.5	N	N	<10
I6307900	37 35 39	88 30 39	<.05	.5	.1	3	<.2	.2	<.5	N	N	<10
I6307910	37 35 39	88 30 39	<.05	.3	.15	2	<.2	.15	<.5	N	N	10
I6307940	37 35 39	88 30 39	.05	.7	.03	1	<.2	.1	<.5	N	N	<10
I6307950	37 35 39	88 30 39	.15	1	.07	.5	<.2	.2	<.5	N	N	70
I6307960	37 35 39	88 30 39	.5	1	.2	.3	<.2	.15	<.5	N	N	50
I6307970	37 35 39	88 30 39	5	.5	.1	.3	<.2	.1	<.5	N	N	30
I6307990	37 35 39	88 30 39	10	.7	.2	.3	<.2	.1	N	N	N	30
I6308010	37 35 39	88 30 39	.5	.5	.15	<.2	<.2	.07	N	N	N	20
I6308020	37 35 39	88 30 39	5	.5	.2	.2	<.2	.1	N	N	N	30
I6308050	37 35 39	88 30 39	15	.5	.15	<.2	<.2	.05	N	N	N	20
I6308070	37 35 39	88 30 39	7	.5	.2	.2	<.2	.07	N	N	N	50
I6308100	37 35 39	88 30 39	20	.5	.1	.2	<.2	.07	N	N	N	20
I6308110	37 35 39	88 30 39	10	1	.3	.3	<.2	.1	N	N	N	50
I6308120	37 35 39	88 30 39	7	1	.2	.2	<.2	.1	N	N	N	50
I6308140	37 35 39	88 30 39	10	.5	.7	.7	<.2	.07	N	N	N	50
I6308160	37 35 39	88 30 39	2	1	.7	.5	<.2	.15	N	N	N	50
I6308180	37 35 39	88 30 39	2	.7	.7	.5	<.2	.15	N	N	N	50
I6308200	37 35 39	88 30 39	5	.7	1	.5	<.2	.1	N	N	N	70
I6308220	37 35 39	88 30 39	2	.7	1.5	.5	<.2	.15	N	N	N	50
I6308240	37 35 39	88 30 39	3	.5	.3	.2	<.2	.2	N	N	N	30
I6308260	37 35 39	88 30 39	.15	.7	.2	.2	<.2	.2	N	N	N	50
I6308280	37 35 39	88 30 39	.1	.5	1	.2	<.2	.3	N	N	N	150
I6308290	37 35 39	88 30 39	.07	.7	.7	.3	<.2	.15	N	N	N	70
I6308300	37 35 39	88 30 39	.05	1	.5	.2	<.2	.2	N	N	N	70
I6308310	37 35 39	88 30 39	.1	1.5	.5	.3	<.2	.2	.5	N	N	50
I6308330	37 35 39	88 30 39	.15	.7	.3	.2	<.2	.2	N	N	N	70
I6308350	37 35 39	88 30 39	.1	.7	.5	.2	<.2	.2	N	N	N	70
I6308360	37 35 39	88 30 39	.3	1	.2	.3	<.2	.15	N	N	N	50
I6308370	37 35 39	88 30 39	.07	1	.3	.5	<.2	.15	N	N	N	50
I6308380	37 35 39	88 30 39	.3	.7	.2	.2	<.2	.1	<.5	N	N	20
I6308390	37 35 39	88 30 39	.5	.7	.2	.5	<.2	.1	<.5	N	N	30
I6308400	37 35 39	88 30 39	.2	1	.3	.3	<.2	.15	<.5	N	N	50
I6308420	37 35 39	88 30 39	.5	1	.5	.7	<.2	.1	<.5	N	N	50
I6308440	37 35 39	88 30 39	.5	1	.5	1	<.2	.1	.5	N	N	20
I6308450	37 35 39	88 30 39	.1	.7	.1	1	<.2	.1	N	N	N	15
I6308470	37 35 39	88 30 39	.07	1.5	.1	.5	<.2	.15	<.5	N	N	30
I6308490	37 35 39	88 30 39	.05	1	.15	1.5	<.2	.15	.5	N	N	30
I6308510	37 35 39	88 30 39	1	.5	1	.5	<.2	.1	N	N	N	30
I6308530	37 35 39	88 30 39	.2	.7	.15	1	<.2	.2	N	N	N	50
I6308540	37 35 39	88 30 39	.15	1	.2	.7	<.2	.2	N	N	N	20
I6308560	37 35 39	88 30 39	.1	.5	.15	.5	<.2	.05	N	N	N	20
I6308570	37 35 39	88 30 39	.2	1	.2	.5	<.2	.1	N	N	N	30
I6308590	37 35 39	88 30 39	.15	1.5	.15	1	<.2	.15	N	N	N	20
I6308600	37 35 39	88 30 39	.2	1	.2	.2	<.2	.05	N	N	N	50
I6308620	37 35 39	88 30 39	15	.5	5	.2	<.2	.02	N	N	N	15
I6308630	37 35 39	88 30 39	.5	.5	.3	.5	<.2	.03	N	N	N	20
I6308640	37 35 39	88 30 39	.2	.7	.3	2	<.2	.1	N	N	N	15
I6308660	37 35 39	88 30 39	<.05	1	.1	1.5	<.2	.07	N	N	N	15
I6308670	37 35 39	88 30 39	.1	.3	.07	<.2	<.2	.03	N	N	N	20
I6308690	37 35 39	88 30 39	.1	1	.1	1	<.2	.07	N	N	N	10
I6308710	37 35 39	88 30 39	.07	1	.1	.5	<.2	.1	N	N	N	15
I6308720	37 35 39	88 30 39	.7	.7	.5	.2	<.2	.07	N	<200	N	20
I6308730	37 35 39	88 30 39	.2	1	.3	.2	<.2	.07	N	N	N	30
I6308740	37 35 39	88 30 39	.1	1	.2	.5	<.2	.1	N	N	N	30
I6308770	37 35 39	88 30 39	.1	1.5	.7	.5	<.2	.3	N	N	N	100
I6308790	37 35 39	88 30 39	.07	.5	.1	1.5	<.2	.1	N	N	N	10
I6308800	37 35 39	88 30 39	<.05	.7	.3	2	<.2	.15	<.5	N	N	15

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6307850	700	N	N	N	20	50	100	30	N	N	15	<5	N
I6307870	200	<1	N	N	20	20	30	30	N	N	10	<5	<20
I6307890	150	N	N	N	20	10	50	50	N	<50	10	<5	<20
I6307900	200	N	N	N	30	<10	30	50	N	N	10	<5	20
I6307910	200	N	N	N	<10	<10	20	30	N	N	<10	<5	N
I6307940	100	N	N	N	10	<10	30	15	N	N	15	30	20
I6307950	500	<1	N	N	15	20	20	20	N	N	50	5	N
I6307960	200	<1	N	N	15	30	30	15	N	N	30	10	N
I6307970	200	N	N	N	<10	<10	15	10	N	N	<10	<5	N
I6307990	500	N	N	N	<10	10	20	15	N	N	10	<5	N
I6308010	300	N	N	N	<10	<10	7	7	N	N	<10	<5	N
I6308020	100	N	N	N	<10	15	20	10	N	N	10	<5	N
I6308050	150	N	N	N	<10	<10	15	7	N	N	<10	15	N
I6308070	100	N	N	N	<10	10	15	15	N	N	10	10	N
I6308100	70	N	N	N	<10	N	10	5	N	N	<10	<5	N
I6308110	100	N	N	N	15	20	30	20	N	N	10	5	N
I6308120	100	N	N	N	15	15	20	20	N	N	<10	15	N
I6308140	200	N	N	N	<10	N	10	15	N	N	10	<5	N
I6308160	300	N	N	N	15	10	20	20	N	N	10	10	N
I6308180	500	N	N	N	15	20	30	20	N	N	20	<5	N
I6308200	1,000	<1	N	N	15	30	20	20	N	N	50	20	N
I6308220	700	<1	N	N	10	30	15	30	N	N	50	<5	N
I6308240	700	<1	N	N	15	20	30	30	N	N	50	<5	N
I6308260	1,000	1	N	N	10	10	20	30	N	N	50	7	N
I6308280	100	1.5	N	N	<10	15	20	30	N	70	15	15	<20
I6308290	100	<1	N	N	<10	20	20	30	N	<50	20	10	N
I6308300	150	1	N	N	10	50	50	20	N	<50	30	20	<20
I6308310	150	1	N	N	30	10	50	30	N	<50	50	30	<20
I6308330	100	1.5	N	N	10	20	20	20	N	50	30	30	<20
I6308350	70	1	N	N	10	20	20	20	N	50	20	50	<20
I6308360	100	1	N	N	10	50	20	20	N	<50	30	50	N
I6308370	150	1.5	N	N	15	15	20	10	N	N	20	20	N
I6308380	70	<1	N	N	<10	10	50	10	N	N	20	20	N
I6308390	70	1	N	N	<10	<10	20	10	N	N	20	15	N
I6308400	70	1	N	N	10	<10	20	30	N	N	20	20	N
I6308420	100	<1	N	N	10	15	20	15	N	N	20	20	N
I6308440	70	N	N	N	10	<10	20	20	N	N	20	30	<20
I6308450	100	N	N	N	<10	<10	15	15	N	N	15	15	<20
I6308470	150	<1	N	N	15	<10	20	20	N	N	20	20	<20
I6308490	50	<1	N	N	10	<10	20	30	N	N	20	50	<20
I6308510	150	1	N	N	<10	15	10	10	N	N	20	10	<20
I6308530	100	1	N	N	<10	20	10	30	N	<50	10	15	20
I6308540	100	<1	N	N	<10	15	15	10	N	N	15	15	<20
I6308560	50	N	N	N	<10	<10	15	7	N	N	<10	15	N
I6308570	100	N	N	N	10	15	20	15	N	N	20	30	<20
I6308590	150	N	N	N	10	15	20	20	N	N	20	20	<20
I6308600	50	N	N	N	<10	15	10	15	N	N	10	20	20
I6308620	30	N	N	N	<10	N	7	10	N	N	70	10	N
I6308630	100	N	N	N	<10	N	15	20	N	N	10	10	N
I6308640	200	N	N	N	10	N	10	30	N	N	15	30	<20
I6308660	200	N	N	N	<10	<10	15	30	N	N	20	15	N
I6308670	70	N	N	N	<10	15	7	7	N	N	10	20	N
I6308690	150	N	N	N	<10	15	15	20	N	N	10	5	N
I6308710	150	N	N	N	<10	10	15	10	N	N	15	5	N
I6308720	50	N	N	N	<10	10	10	10	N	N	15	5	N
I6308730	30	N	N	N	10	10	15	10	N	N	10	5	N
I6308740	150	<1	N	N	10	20	20	15	N	N	15	10	N
I6308770	100	1	N	N	<10	30	50	30	N	70	50	20	20
I6308790	100	N	N	N	<10	N	15	30	N	N	10	<5	N
I6308800	200	<1	N	N	10	10	20	30	N	N	15	<5	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6307850	20	150	N	<5	N	>5,000	N	50	<20	10	N	100	.24	41
I6307870	20	100	N	<5	N	1,000	N	50	<20	N	N	100	.19	41
I6307890	20	50	N	N	N	300	N	15	<20	<10	N	100	.06	41
I6307900	30	30	N	N	N	200	N	10	20	N	N	150	.05	41
I6307910	15	30	N	N	N	2,000	N	20	<20	N	N	100	.09	41
I6307940	20	50	N	N	N	1,000	N	10	20	N	N	200	.05	41
I6307950	30	100	N	5	N	5,000	N	50	<20	10	N	100	.27	41
I6307960	30	30	N	<5	N	1,500	N	30	<20	<10	N	100	.12	41
I6307970	10	30	N	N	N	2,000	N	20	<20	N	N	100	.06	41
I6307990	15	30	N	N	N	>5,000	N	30	<20	N	N	100	.07	41
I6308010	7	15	N	N	N	5,000	N	20	<20	N	N	100	.12	41
I6308020	10	150	N	N	N	1,000	N	20	<20	N	N	50	.05	41
I6308050	10	50	N	N	N	2,000	N	20	<20	N	N	50	.05	41
I6308070	10	20	N	N	N	1,000	N	20	<20	N	N	50	.09	41
I6308100	7	10	N	N	N	1,000	N	15	<20	N	<200	30	.04	41
I6308110	20	300	N	N	N	1,000	N	30	<20	N	N	50	.19	41
I6308120	30	70	N	N	N	1,000	N	50	<20	N	N	100	.16	41
I6308140	10	70	N	N	N	5,000	N	30	<20	N	N	30	.13	41
I6308160	20	<10	N	N	N	>5,000	N	50	<20	N	N	50	.25	41
I6308180	20	30	N	<5	N	>5,000	N	50	<20	N	N	70	.33	41
I6308200	20	20	N	<5	N	>5,000	N	50	<20	N	N	70	.41	41
I6308220	15	20	N	5	N	>5,000	N	50	<20	10	N	100	.27	41
I6308240	20	50	N	N	N	>5,000	N	50	<20	N	N	100	.12	41
I6308260	20	100	N	<5	N	>5,000	N	50	<20	<10	N	100	.08	41
I6308280	10	50	N	15	N	200	N	15	<20	50	N	200	.14	41
I6308290	15	30	N	7	N	100	N	20	<20	20	N	100	.14	41
I6308300	20	1,000	N	5	N	100	N	20	<20	20	N	150	.09	41
I6308310	20	500	N	5	N	100	N	30	<20	15	N	100	.05	41
I6308330	10	30	N	5	N	100	N	20	<20	20	<200	150	.11	41
I6308350	10	100	N	7	N	100	N	20	20	30	<200	150	.07	41
I6308360	15	300	N	<5	N	300	N	20	<20	N	N	100	.08	41
I6308370	15	<10	N	5	N	<100	N	30	20	N	N	70	.06	41
I6308380	15	10	N	N	N	100	N	10	20	<10	N	100	.03	41
I6308390	15	10	N	N	N	200	N	15	<20	<10	500	100	.02	41
I6308400	10	300	N	5	N	700	N	20	<20	15	N	150	.26	41
I6308420	15	1,000	N	<5	N	150	N	10	<20	10	N	100	.06	41
I6308440	20	500	N	<5	30	<100	N	15	<20	N	N	100	.02	41
I6308450	10	200	N	N	N	<100	N	10	20	N	N	150	.01	41
I6308470	20	200	N	<5	N	100	N	15	<20	N	N	150	.03	41
I6308490	15	150	N	N	N	<100	N	10	20	<10	N	100	.02	41
I6308510	10	20	N	N	N	<100	N	<10	20	10	N	100	.04	41
I6308530	10	200	N	N	N	<100	N	<10	<20	10	N	150	.06	41
I6308540	15	150	N	N	N	<100	N	<10	<20	<10	N	100	.01	41
I6308560	7	70	N	N	N	<100	N	<10	<20	N	300	50	.02	41
I6308570	20	100	N	N	N	<100	N	<10	20	<10	200	100	.04	41
I6308590	20	100	N	N	N	<100	N	<10	20	N	<200	150	.01	41
I6308600	15	20	N	N	N	<100	N	<10	20	<10	N	150	.06	41
I6308620	5	50	N	N	N	150	N	<10	<20	N	N	30	.02	41
I6308630	5	100	N	N	N	<100	N	<10	<20	<10	200	100	.02	41
I6308640	15	150	N	N	N	<100	N	<10	<20	N	N	100	.07	41
I6308660	15	150	N	N	N	100	N	<10	<20	N	N	150	.01	41
I6308670	7	150	N	N	N	<100	N	<10	20	N	N	100	.01	41
I6308690	15	100	N	N	N	N	N	<10	20	N	N	150	.01	41
I6308710	15	30	N	N	N	N	N	<10	20	N	N	100	.01	41
I6308720	10	<10	N	N	N	100	N	<10	20	N	<200	100	.01	41
I6308730	15	1,000	N	N	N	<100	N	<10	<20	10	300	100	.04	41
I6308740	20	200	N	N	N	<100	N	<10	20	10	<200	100	.03	41
I6308770	30	200	N	7	N	500	N	30	20	30	N	200	.26	41
I6308790	15	500	N	N	N	<100	N	10	<20	N	N	50	.05	41
I6308800	20	1,000	N	N	N	<100	N	20	<20	N	N	70	.09	41

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6308820	37 35 39	88 30 39	.15	2	1	1	<.2	.3	N	N	N	150
I6308840	37 35 39	88 30 39	.2	5	.5	1	<.2	.5	N	N	N	100
I6308860	37 35 39	88 30 39	7	3	.3	.5	<.2	.3	N	N	N	70
I6308880	37 35 39	88 30 39	.15	3	.7	1	<.2	.5	N	N	N	150
I6308900	37 35 39	88 30 39	.1	5	1	.5	<.2	1	N	N	N	200
I6308920	37 35 39	88 30 39	2	2	.5	.5	<.2	.3	N	N	N	100
I6308930	37 35 39	88 30 39	5	1	.3	.5	<.2	.2	N	N	N	70
I6308940	37 35 39	88 30 39	7	3	.7	1	<.2	.2	N	N	N	70
I6308950	37 35 39	88 30 39	.3	3	.5	.7	<.2	.3	N	N	N	150
I6308970	37 35 39	88 30 39	.05	.3	.1	1	<.2	.15	N	N	N	<10
I6308980	37 35 39	88 30 39	<.05	.5	.1	1.5	<.2	.2	N	N	N	<10
I6309000	37 35 39	88 30 39	<.05	2	.15	1	<.2	.5	N	N	N	10
I6309020	37 35 39	88 30 39	<.05	.7	.1	1.5	<.2	.2	N	N	N	10
I6309040	37 35 39	88 30 39	.05	.7	.1	1.5	<.2	.2	N	N	N	15
I6309060	37 35 39	88 30 39	.07	.5	.1	.2	<.2	.15	N	N	N	30
I6309080	37 35 39	88 30 39	.05	.7	.15	1	<.2	.3	N	N	N	50
I6309100	37 35 39	88 30 39	<.05	.7	.15	1	<.2	.3	N	N	N	30
I6309120	37 35 39	88 30 39	.05	1	.15	.7	<.2	.3	1	N	N	15
I6309130	37 35 39	88 30 39	.05	1.5	.3	1.5	<.2	.3	N	N	N	30
I6309150	37 35 39	88 30 39	<.05	.3	.1	1.5	<.2	.2	N	N	N	10
I6309180	37 35 39	88 30 39	<.05	.5	.15	1	<.2	.2	N	N	N	70
I6309200	37 35 39	88 30 39	.05	.7	.1	.5	<.2	.3	N	N	N	100
I6309220	37 35 39	88 30 39	.05	.7	.15	3	<.2	.2	N	N	N	50
I6309240	37 35 39	88 30 39	<.05	.5	.1	1.5	<.2	.15	N	N	N	30
I6309260	37 35 39	88 30 39	<.05	.3	.1	1	<.2	.15	N	N	N	30
I6309280	37 35 39	88 30 39	.5	.2	.07	.5	<.2	.15	N	N	N	50
I6309300	37 35 39	88 30 39	.1	.5	.2	.3	<.2	.15	N	N	N	20
I6309320	37 35 39	88 30 39	.5	.5	.15	.5	<.2	.15	N	N	N	50
I6309340	37 35 39	88 30 39	.2	.3	.15	1	<.2	.15	N	N	N	50
I6309360	37 35 39	88 30 39	.05	.2	.07	.5	<.2	.1	N	N	N	20
I6309380	37 35 39	88 30 39	.1	.2	.07	.5	<.2	.1	N	N	N	15
I6309390	37 35 39	88 30 39	.2	.3	.15	1	<.2	.1	N	N	N	20
I6309410	37 35 39	88 30 39	1	.5	.2	.7	<.2	.1	N	N	N	70
I6309430	37 35 39	88 30 39	2	.5	.2	.3	<.2	.2	N	N	N	70
I6309440	37 35 39	88 30 39	.2	.5	.3	1	<.2	.07	N	N	N	50
I6309450	37 35 39	88 30 39	20	.2	.15	.2	<.2	.2	N	N	N	50
I6309470	37 35 39	88 30 39	.7	.5	.1	.5	<.2	.1	N	N	N	30
I6309480	37 35 39	88 30 39	.15	.2	.07	.3	<.2	.2	N	N	N	15
I6309500	37 35 39	88 30 39	.05	.5	.5	2	<.2	.2	N	N	N	50
I6309520	37 35 39	88 30 39	.1	.3	.2	3	<.2	.2	N	N	N	20
I6309540	37 35 39	88 30 39	.5	2	1	2	<.2	.5	N	N	N	150
I6309550	37 35 39	88 30 39	.2	2	.5	.2	<.2	.3	N	N	N	15
I6309570	37 35 39	88 30 39	.2	3	1.5	1.5	<.2	.7	N	N	N	100
I6309590	37 35 39	88 30 39	.15	3	.3	1	<.2	.5	N	N	N	20
I6309600	37 35 39	88 30 39	<.05	3	.2	.3	<.2	.5	N	N	N	20
I6309610	37 35 39	88 30 39	.1	3	.5	1	<.2	.7	N	N	N	70
I6309620	37 35 39	88 30 39	.07	1.5	1.5	.7	<.2	.5	N	N	N	100
I6309630	37 35 39	88 30 39	20	1.5	1	<.2	<.2	.3	N	N	N	100
I6309640	37 35 39	88 30 39	>20	2	.7	<.2	<.2	.3	N	N	N	100
I6309660	37 35 39	88 30 39	2	2	2	<.2	<.2	.5	N	N	N	100
I6309680	37 35 39	88 30 39	3	2	.7	.2	<.2	.5	N	N	N	100
I6309690	37 35 39	88 30 39	.15	3	1	<.2	<.2	.5	N	N	N	100
I6309700	37 35 39	88 30 39	3	3	.5	<.2	<.2	.3	N	N	N	70
I6309710	37 35 39	88 30 39	.02	1	.2	<.2	<.2	.3	N	N	N	50
I6309730	37 35 39	88 30 39	2	3	.5	<.2	<.2	.5	N	N	N	100
I6309740	37 35 39	88 30 39	.15	1	.5	.2	<.2	.2	N	N	N	50
I6309750	37 35 39	88 30 39	.1	2	1.5	.2	<.2	.5	N	N	N	100
I6309770	37 35 39	88 30 39	.2	2	1	<.2	<.2	.5	N	N	N	100
I6309790	37 35 39	88 30 39	.05	3	.7	.2	<.2	.5	N	N	N	70
I6309800	37 35 39	88 30 39	.07	1.5	.5	<.2	<.2	.3	N	N	N	50

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6308820	300	1.5	N	N	15	50	70	30	N	<50	20	15	<20
I6308840	200	1	N	N	20	30	100	20	N	N	30	10	<20
I6308860	500	1.5	N	<20	15	50	70	20	N	N	30	15	N
I6308880	300	2	N	N	20	100	100	50	N	<50	30	10	N
I6308900	500	2	N	N	20	100	70	30	N	50	200	5	<20
I6308920	300	1	N	N	15	20	30	15	N	N	20	10	N
I6308930	500	1	N	N	<10	15	20	10	N	N	30	<5	N
I6308940	500	<1	N	N	10	15	50	20	N	N	30	10	N
I6308950	500	1	N	20	15	20	70	30	N	<50	20	7	<20
I6308970	500	<1	N	N	N	20	5	15	N	N	10	5	N
I6308980	500	<1	N	<20	<10	20	10	20	N	N	10	5	<20
I6309000	500	<1	N	N	20	50	70	30	N	N	10	20	20
I6309020	500	<1	N	N	<10	10	20	20	N	N	10	15	<20
I6309040	500	<1	N	N	<10	20	15	20	N	N	10	15	<20
I6309060	300	<1	N	N	<10	10	7	10	N	<50	10	7	<20
I6309080	700	<1	N	20	10	20	150	20	N	N	10	10	<20
I6309100	700	1	N	N	10	20	30	20	N	<50	10	7	N
I6309120	700	1	N	N	10	20	20	20	N	N	10	7	<20
I6309130	700	<1	N	N	15	20	50	30	N	N	10	5	N
I6309150	1,000	<1	N	N	<10	20	15	20	N	N	10	5	N
I6309180	500	1.5	N	N	10	50	30	30	N	N	20	7	<20
I6309200	300	1	N	N	10	50	30	20	N	N	50	10	<20
I6309220	500	<1	N	N	15	70	70	30	N	N	20	10	<20
I6309240	500	<1	N	N	10	20	30	20	N	N	30	5	N
I6309260	300	<1	N	N	10	20	20	20	N	N	30	15	<20
I6309280	1,000	<1	N	N	<10	20	10	10	N	N	20	<5	N
I6309300	1,000	<1	N	N	<10	20	15	7	N	N	20	<5	N
I6309320	1,500	<1	N	N	<10	20	20	10	N	N	20	10	N
I6309340	1,000	<1	N	N	10	20	20	10	N	N	20	10	<20
I6309360	700	<1	N	N	<10	20	10	15	N	N	20	5	<20
I6309380	300	<1	N	N	<10	10	15	5	N	N	20	5	<20
I6309390	700	<1	N	N	<10	10	10	15	N	N	20	5	N
I6309410	500	1.5	N	N	<10	20	30	10	N	N	20	10	N
I6309430	1,000	1.5	N	N	<10	30	15	15	N	N	20	30	N
I6309440	700	1.5	N	N	<10	30	100	15	N	N	20	10	<20
I6309450	700	<1	N	N	<10	50	15	5	N	N	10	<5	N
I6309470	1,000	<1	N	N	15	20	30	30	N	N	20	15	50
I6309480	700	<1	N	N	<10	20	20	30	N	N	15	10	<20
I6309500	700	1	N	N	15	50	30	70	N	N	20	5	N
I6309520	500	<1	N	N	15	10	30	10	N	N	20	5	N
I6309540	1,000	1.5	N	N	10	15	150	7	N	N	10	<5	N
I6309550	2,000	<1	N	N	<10	15	700	5	N	N	<10	<5	N
I6309570	500	1.5	N	N	15	30	100	7	N	N	15	7	<20
I6309590	500	1	N	N	<10	15	70	7	N	N	15	<5	N
I6309600	300	<1	N	N	10	15	200	10	N	N	20	<5	<20
I6309610	500	1	N	N	20	20	150	10	N	N	20	7	N
I6309620	1,000	1	N	N	<10	20	100	7	N	N	20	<5	N
I6309630	300	<1	N	N	N	10	70	<5	N	N	15	<5	N
I6309640	150	<1	N	N	N	<10	70	<5	N	N	<10	<5	N
I6309660	700	<1	N	N	<10	15	100	10	N	N	30	5	N
I6309680	500	<1	N	N	10	20	100	10	N	N	50	7	N
I6309690	500	<1	N	N	15	20	150	10	N	N	50	7	N
I6309700	300	1	N	N	<10	10	100	7	N	N	15	15	N
I6309710	1,000	<1	N	N	<10	15	30	10	N	N	<10	<5	N
I6309730	700	1.5	N	N	10	50	100	10	N	N	15	20	N
I6309740	300	1	N	N	<10	20	200	5	N	N	10	15	N
I6309750	500	2	N	N	10	50	100	10	N	N	50	20	N
I6309770	500	2	N	N	10	50	70	10	N	N	30	5	N
I6309790	500	1.5	N	N	10	20	100	10	N	N	50	10	N
I6309800	200	1	N	N	10	15	1,000	7	N	N	20	15	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6308820	50	700	N	7	10	100	N	20	<20	30	N	700	.1	41
I6308840	70	3,000	N	5	N	100	N	15	<20	15	3,000	500	.09	41
I6308860	30	15,000	N	5	N	1,500	N	15	100	<10	700	300	.07	41
I6308880	50	20,000	N	7	N	150	N	50	<20	10	N	300	.09	41
I6308900	50	30	N	15	N	<100	N	150	<20	30.	N	300	.06	41
I6308920	30	50	N	<5	N	150	N	50	<20	N	N	150	.05	41
I6308930	15	30	N	<5	N	700	N	20	<20	N	N	200	.1	41
I6308940	20	1,500	N	<5	N	500	N	20	<20	N	N	150	.16	41
I6308950	30	500	N	5	N	100	N	30	<20	10	2,000	500	.08	41
I6308970	5	20	N	N	N	100	N	<10	50	N	N	300	.01	41
I6308980	15	15	N	N	N	<100	N	10	<20	N	700	300	.01	41
I6309000	50	50	N	5	N	<100	N	30	<20	10	N	700	.04	41
I6309020	15	30	N	<5	N	100	N	15	<20	10	N	500	.03	41
I6309040	20	20	N	<5	N	100	N	20	<20	10	N	500	.02	41
I6309060	10	15	N	<5	N	100	N	15	<20	N	N	300	.02	41
I6309080	20	20	N	5	N	<100	N	20	<20	<10	200	200	.03	41
I6309100	30	20	N	5	N	100	N	20	<20	<10	<200	300	.03	41
I6309120	20	20	N	N	100	100	N	20	<20	<10	<200	300	.03	41
I6309130	50	30	N	<5	N	100	N	30	<20	<10	N	200	.06	41
I6309150	10	50	N	<5	N	100	N	10	<20	10	N	300	.02	41
I6309180	20	20	N	5	N	100	N	20	<20	10	N	150	.08	41
I6309200	30	20	N	5	N	100	N	20	<20	10	N	200	.04	41
I6309220	30	100	N	<5	N	100	N	20	<20	10	N	200	.07	41
I6309240	20	50	N	<5	N	100	N	15	<20	<10	1,000	150	.03	41
I6309260	15	20	N	<5	N	100	N	15	<20	N	N	150	.02	41
I6309280	10	<10	N	<5	N	5,000	N	20	<20	N	N	100	.05	41
I6309300	15	<10	N	<5	N	300	N	15	<20	N	N	100	.28	41
I6309320	15	20	N	<5	N	500	N	15	<20	N	N	200	.06	41
I6309340	15	20	N	<5	N	200	N	20	<20	N	<200	150	.07	41
I6309360	10	20	N	<5	N	100	N	10	<20	N	N	200	.03	41
I6309380	10	20	N	<5	N	100	N	10	<20	N	N	100	.02	41
I6309390	10	50	N	<5	N	150	N	15	<20	N	N	150	.11	41
I6309410	10	15	N	<5	N	150	N	20	<20	N	N	150	.13	41
I6309430	15	15	N	<5	N	300	N	20	<20	N	N	150	.09	41
I6309440	20	100	N	<5	N	100	N	30	<20	N	N	100	.09	41
I6309450	15	30	N	<5	N	>5,000	N	20	<20	N	N	70	.04	41
I6309470	20	50	N	<5	N	500	N	20	<20	N	<200	200	.07	41
I6309480	10	500	N	<5	N	150	N	<10	<20	N	N	200	.01	41
I6309500	20	50	N	5	N	100	N	30	<20	N	N	150	.24	41
I6309520	30	15	N	<5	N	100	N	20	<20	N	N	150	.11	41
I6309540	30	<10	N	N	N	100	N	20	<20	N	<200	1,000	.06	41
I6309550	5	<10	N	N	N	5,000	N	15	<20	N	<200	500	.07	41
I6309570	50	<10	N	N	N	300	N	50	<20	N	<200	1,000	.23	41
I6309590	15	<10	N	N	N	150	N	20	<20	N	N	500	.04	41
I6309600	30	20	N	N	N	100	N	20	<20	N	N	700	.03	41
I6309610	30	70	N	N	N	<100	N	50	20	N	N	300	.06	41
I6309620	10	30	N	N	N	5,000	N	50	<20	N	N	300	.14	41
I6309630	7	<10	N	N	N	5,000	N	20	N	N	N	70	.09	41
I6309640	7	<10	N	N	N	5,000	N	15	N	N	N	50	.04	41
I6309660	15	<10	N	<5	N	3,000	N	50	<20	N	N	150	.36	41
I6309680	50	70	N	<5	N	3,000	N	50	<20	N	N	200	.09	41
I6309690	50	<10	N	<5	N	100	N	50	<20	N	N	200	.08	41
I6309700	20	<10	N	<5	N	1,500	N	30	<20	N	N	300	.04	41
I6309710	5	<10	N	N	N	<100	N	30	<20	N	N	700	.06	41
I6309730	30	<10	N	<5	N	200	N	50	50	N	<200	300	.11	41
I6309740	10	<10	N	<5	N	<100	N	30	<20	N	<200	200	.03	41
I6309750	50	<10	N	5	N	<100	N	50	50	N	<200	300	.21	41
I6309770	30	<10	N	5	N	300	N	50	<20	N	N	150	.16	41
I6309790	50	<10	N	5	N	200	N	50	<20	N	N	150	.14	41
I6309800	20	<10	N	<5	N	<100	N	20	<20	N	<200	150	.09	41

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6309810	37 35 39	88 30 39	.05	5	.5	.2	<.2	.5	N	N	N	100
I6309820	37 35 39	88 30 39	5	3	.5	<.2	<.2	.3	N	N	N	50
I6309830	37 35 39	88 30 39	<.05	5	.5	.2	<.2	.5	N	N	N	100
I6309850	37 35 39	88 30 39	<.05	2	.7	.3	<.2	.3	N	N	N	100
I6309860	37 35 39	88 30 39	.1	1.5	.5	.5	<.2	.5	N	N	N	30
I6309870	37 35 39	88 30 39	.2	1.5	.3	.7	<.2	.5	N	N	N	30
I6309890	37 35 39	88 30 39	.15	2	.7	1.5	<.2	.5	N	N	N	30
I6309910	37 35 39	88 30 39	.1	2	.5	1	<.2	.5	N	N	N	20
I6309930	37 35 39	88 30 39	.1	1	.2	.5	<.2	.3	N	N	N	15
I6309950	37 35 39	88 30 39	<.05	1	.3	.3	<.2	.3	N	N	N	50
I6309970	37 35 39	88 30 39	.07	1	.3	.5	<.2	.3	N	N	N	30
I6309990	37 35 39	88 30 39	<.05	1	.15	.5	<.2	.3	N	N	N	10
I6310010	37 35 39	88 30 39	.05	3	.1	.5	<.2	.5	N	N	N	<10
I6310030	37 35 39	88 30 39	1	.5	.15	.5	<.2	.2	N	N	N	<10
I6310040	37 35 39	88 30 39	.05	2	.1	.3	<.2	.5	N	N	N	15
I6310060	37 35 39	88 30 39	<.05	2	.05	.2	<.2	.2	N	N	N	<10
I6310080	37 35 39	88 30 39	<.05	1	.1	.5	<.2	.3	N	N	N	10
I6310090	37 35 39	88 30 39	<.05	3	.1	1	<.2	.5	N	N	N	10
I6310120	37 35 39	88 30 39	<.05	2	.07	.5	<.2	.5	N	N	N	10
I6310130	37 35 39	88 30 39	<.05	3	.5	.5	<.2	.5	N	N	N	50
I6310160	37 35 39	88 30 39	.05	2	.2	1	<.2	.7	N	N	N	50
I6310180	37 35 39	88 30 39	<.05	2	.2	.5	<.2	.5	N	N	N	70
I6310190	37 35 39	88 30 39	.05	3	.2	.7	<.2	.7	N	N	N	70
I6310210	37 35 39	88 30 39	.07	2	.1	.5	<.2	.3	N	N	N	10
I6310230	37 35 39	88 30 39	.05	3	.2	.7	<.2	.7	N	N	N	20
I6310250	37 35 39	88 30 39	<.05	1	.07	.7	<.2	.5	N	N	N	10
I6310270	37 35 39	88 30 39	<.05	1.5	.07	.5	<.2	.3	N	N	N	<10
I6310290	37 35 39	88 30 39	.05	2	.07	.7	<.2	.5	N	N	N	<10
I6310300	37 35 39	88 30 39	.15	.7	.1	.3	<.2	.2	N	N	N	20
I6310310	37 35 39	88 30 39	.05	.7	.07	.2	<.2	.2	N	N	N	10
I6310320	37 35 39	88 30 39	.1	.2	.1	<.2	<.2	.1	N	N	N	20
I6310330	37 35 39	88 30 39	.1	.7	.15	.5	<.2	.2	N	N	N	10
I6310340	37 35 39	88 30 39	<.05	.5	.05	.7	<.2	.3	N	N	N	10
I6310360	37 35 39	88 30 39	1	2	.1	.5	<.2	.2	N	N	N	20
I6310380	37 35 39	88 30 39	.05	5	.1	.5	<.2	.5	N	N	N	30
I6310400	37 35 39	88 30 39	.05	3	.15	.5	<.2	.3	N	N	N	20
I6310420	37 35 39	88 30 39	.05	3	.07	.3	<.2	.2	N	N	N	10
I6310430	37 35 39	88 30 39	<.05	1.5	.05	.3	<.2	.2	N	N	N	10
I6310460	37 35 39	88 30 39	<.05	2	.07	.3	<.2	.2	N	N	N	10
I6310480	37 35 39	88 30 39	<.05	5	.1	1	<.2	.2	N	N	N	10
I6310500	37 35 39	88 30 39	.07	2	.1	.2	<.2	.3	N	N	N	10
I6310520	37 35 39	88 30 39	.1	3	.07	.2	<.2	.5	N	N	N	10
I6310540	37 35 39	88 30 39	.1	2	.1	.2	<.2	.3	N	N	N	10
I6310560	37 35 39	88 30 39	.1	.3	.07	<.2	<.2	.1	N	N	N	10
I6310580	37 35 39	88 30 39	.07	1	.07	<.2	<.2	.2	N	N	N	10
I6310590	37 35 39	88 30 39	.07	1	.07	<.2	<.2	.2	N	N	N	10
I6310610	37 35 39	88 30 39	.1	.5	.07	<.2	<.2	.15	N	N	N	10
I6310620	37 35 39	88 30 39	.07	.5	.07	<.2	<.2	.15	N	N	N	10
I6310640	37 35 39	88 30 39	.07	1.5	.15	.5	<.2	.2	N	N	N	<10
I6310660	37 35 39	88 30 39	.1	1	.07	.5	<.2	.15	N	N	N	<10
I6310680	37 35 39	88 30 39	.1	.3	.07	<.2	<.2	.1	N	N	N	10
I6310690	37 35 39	88 30 39	.07	.2	.07	<.2	<.2	.1	N	N	N	10
I6310710	37 35 39	88 30 39	<.05	.3	.03	<.2	<.2	.1	N	N	N	<10
I6310730	37 35 39	88 30 39	.07	.2	.05	<.2	<.2	.07	N	N	N	<10
I6310740	37 35 39	88 30 39	.07	.3	.05	.2	<.2	.1	N	N	N	<10
I6310760	37 35 39	88 30 39	<.05	5	.07	2	<.2	.3	N	N	N	<10
I6310780	37 35 39	88 30 39	<.05	.7	.05	.2	<.2	.1	N	N	N	<10
I6310790	37 35 39	88 30 39	.05	.5	.03	.2	<.2	.1	N	N	N	<10
I6310800	37 35 39	88 30 39	<.05	.07	<.02	<.2	<.2	.015	N	N	N	<10
I6310810	37 35 39	88 30 39	<.05	1.5	.03	.2	<.2	.15	N	N	N	<10

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6309810	500	1	N	N	15	50	3,000	10	N	N	30	10	N
I6309820	300	<1	N	N	10	20	100	7	N	N	15	5	N
I6309830	500	1	N	N	15	50	300	10	N	N	50	15	N
I6309850	500	1	N	N	15	50	100	10	N	N	30	5	N
I6309860	500	<1	N	N	10	50	70	7	N	N	10	5	N
I6309870	500	<1	N	N	10	50	100	5	N	N	10	10	N
I6309890	500	1	N	N	10	30	100	10	N	N	10	7	20
I6309910	500	<1	N	N	<10	20	70	7	N	N	<10	5	<20
I6309930	500	<1	N	N	<10	15	100	7	N	N	<10	20	<20
I6309950	500	<1	N	N	10	20	100	5	N	N	15	7	N
I6309970	500	<1	N	N	<10	10	50	5	N	N	10	5	N
I6309990	500	<1	N	N	<10	10	70	7	N	N	10	5	N
I6310010	500	<1	N	N	10	20	70	10	N	N	20	10	20
I6310030	300	<1	N	N	<10	10	30	5	N	N	10	5	<20
I6310040	500	<1	N	N	<10	20	100	7	N	N	20	7	20
I6310060	300	<1	N	N	<10	<10	20	5	N	N	10	<5	<20
I6310080	500	<1	N	N	<10	20	150	10	N	N	10	15	N
I6310090	500	<1	N	N	10	20	150	10	N	N	20	15	<20
I6310120	700	<1	N	N	10	15	50	10	N	N	10	15	N
I6310130	500	1	N	N	15	50	100	15	N	N	30	15	N
I6310160	500	1.5	N	N	15	50	100	20	N	N	20	5	N
I6310180	500	1.5	N	N	15	70	70	15	N	N	20	10	<20
I6310190	300	1	N	N	20	70	100	15	N	N	30	<5	N
I6310210	200	<1	N	N	10	20	70	7	N	N	20	10	<20
I6310230	500	1	N	N	15	50	100	10	N	N	30	20	<20
I6310250	700	<1	N	N	10	15	50	20	N	N	10	5	N
I6310270	500	<1	N	N	10	20	30	15	N	N	10	5	<20
I6310290	500	<1	N	N	15	20	50	20	N	N	10	<5	N
I6310300	200	<1	N	N	10	15	70	7	N	N	10	15	N
I6310310	300	1	N	N	<10	10	30	5	N	N	10	15	N
I6310320	300	<1	N	N	<10	10	15	<5	N	N	10	15	N
I6310330	500	<1	N	N	<10	<10	20	7	N	N	20	5	<20
I6310340	500	<1	N	N	10	<10	70	10	N	N	10	20	N
I6310360	700	<1	N	N	10	10	30	15	N	N	20	30	<20
I6310380	300	<1	N	N	10	20	50	10	N	N	10	30	<20
I6310400	500	<1	N	N	15	20	30	10	N	N	20	15	N
I6310420	300	<1	N	N	10	20	30	7	N	N	20	10	50
I6310430	500	<1	N	N	10	50	50	7	N	N	30	20	N
I6310460	1,500	<1	N	N	15	50	50	10	N	N	15	20	<20
I6310480	200	<1	N	N	20	50	50	15	N	N	20	20	N
I6310500	200	<1	N	N	<10	<10	50	5	N	N	<10	20	30
I6310520	150	<1	N	N	10	20	100	5	N	N	<10	10	20
I6310540	150	<1	N	N	<10	10	50	5	N	N	<10	5	<20
I6310560	200	<1	N	N	<10	<10	10	5	N	N	<10	7	<20
I6310580	150	<1	N	N	<10	<10	7	5	N	N	<10	7	N
I6310590	500	<1	N	N	<10	<10	5	5	N	N	<10	<5	N
I6310610	150	<1	N	N	<10	<10	5	5	N	N	<10	<5	N
I6310620	200	<1	N	N	<10	<10	7	5	N	N	<10	10	N
I6310640	500	<1	N	N	<10	<10	15	5	N	N	<10	7	N
I6310660	200	<1	N	N	<10	<10	20	5	N	N	<10	5	N
I6310680	150	<1	N	N	<10	<10	7	5	N	N	<10	<5	N
I6310690	100	<1	N	N	<10	<10	5	5	N	N	<10	<5	N
I6310710	200	<1	N	N	<10	<10	7	5	N	N	<10	<5	N
I6310730	100	<1	N	N	<10	<10	<5	<5	N	N	<10	<5	N
I6310740	700	<1	N	N	<10	20	10	<5	N	N	<10	7	N
I6310760	200	<1	N	N	15	20	50	10	N	N	15	100	<20
I6310780	150	<1	N	N	N	<10	7	5	N	N	<10	5	N
I6310790	200	<1	N	N	N	<10	10	5	N	N	<10	5	N
I6310800	20	<1	N	N	N	<10	<5	<5	N	N	<10	<5	N
I6310810	150	<1	N	N	<10	<10	15	5	N	N	<10	10	20

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6309810	20	20	N	<5	N	<100	N	30	<20	N	500	150	.09	41
I6309820	20	10	N	<5	N	500	N	30	<20	N	N	100	.05	41
I6309830	50	20	N	5	N	100	N	50	<20	N	500	200	.08	41
I6309850	30	20	N	5	N	100	N	50	<20	N	N	150	.27	41
I6309860	20	10	N	<5	N	100	N	20	<20	N	N	300	.07	41
I6309870	20	10	N	<5	N	100	N	15	<20	N	N	300	.04	41
I6309890	20	20	N	<5	N	100	N	10	<20	N	N	500	.12	41
I6309910	15	<10	N	N	N	100	N	10	<20	N	N	300	.2	41
I6309930	15	20	N	N	N	100	N	<10	<20	N	N	500	.06	41
I6309950	15	<10	N	5	N	100	N	20	<20	N	N	100	.1	41
I6309970	15	<10	N	<5	N	100	N	15	<20	N	N	700	.08	41
I6309990	15	10	N	5	N	100	N	10	<20	N	N	1,000	.04	41
I6310010	20	30	N	5	N	100	N	15	<20	N	N	500	.02	41
I6310030	5	<10	N	N	N	100	N	10	<20	N	N	300	.01	41
I6310040	20	20	N	N	N	100	N	20	<20	N	N	500	.02	41
I6310060	10	<10	N	N	N	100	N	10	<20	N	N	150	<.01	41
I6310080	20	20	N	N	N	100	N	15	<20	N	<200	500	<.01	41
I6310090	20	20	N	N	N	100	N	15	<20	N	N	300	.02	41
I6310120	15	10	N	N	N	100	N	15	<20	N	500	500	.01	41
I6310130	30	20	N	5	N	100	N	50	<20	N	<200	200	.02	41
I6310160	50	15	N	5	N	<100	N	30	<20	<10	<200	200	.03	41
I6310180	50	20	N	5	N	100	N	50	<20	10	<200	300	.04	41
I6310190	50	300	N	5	N	<100	N	50	<20	N	<200	200	.05	41
I6310210	30	<10	N	<5	N	<100	N	15	50	N	<200	150	.02	41
I6310230	50	10	N	<5	N	150	N	20	<20	N	1,000	200	.04	41
I6310250	30	15	N	N	N	100	N	15	<20	<10	<200	300	<.01	41
I6310270	20	15	N	N	N	<100	N	10	<20	N	<200	500	<.01	41
I6310290	30	15	N	5	N	<100	N	20	<20	N	<200	200	<.01	41
I6310300	10	15	N	<5	N	<100	N	15	<20	N	<200	100	.01	41
I6310310	10	15	N	<5	N	<100	N	10	<20	N	300	200	.01	41
I6310320	10	500	N	<5	N	<100	N	10	<20	N	N	100	.01	41
I6310330	20	50	N	<5	N	<100	N	15	<20	N	N	100	.01	41
I6310340	20	20	N	<5	N	<100	N	20	<20	N	N	300	.02	41
I6310360	30	15	N	<5	N	200	N	15	50	N	N	200	.03	41
I6310380	50	20	N	<5	N	<100	N	20	<20	N	N	300	.04	41
I6310400	30	10	N	<5	N	<100	N	20	<20	N	N	200	.02	41
I6310420	20	15	N	<5	N	<100	N	20	<20	N	N	150	.02	41
I6310430	20	<10	N	<5	N	<100	N	15	<20	N	N	200	.01	41
I6310460	30	20	N	<5	N	5,000	N	20	<20	N	N	150	.02	41
I6310480	50	10	N	<5	N	<100	N	30	<20	N	N	100	.02	41
I6310500	20	<10	N	N	N	<100	N	<10	<20	N	<200	500	.02	41
I6310520	20	500	N	N	N	<100	N	10	<20	N	N	300	.01	41
I6310540	15	<10	N	N	N	<100	N	<10	<20	N	N	200	.01	41
I6310560	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	.01	41
I6310580	5	<10	N	N	N	<100	N	<10	<20	N	N	100	.01	41
I6310590	5	<10	N	N	N	<100	N	<10	<20	N	N	300	<.01	41
I6310610	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	<.01	41
I6310620	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	.01	41
I6310640	10	70	N	N	N	<100	N	<10	10	N	N	200	.01	41
I6310660	7	<10	N	N	N	<100	N	<10	<20	N	N	150	<.01	41
I6310680	5	<10	N	N	N	<100	N	<10	<20	N	N	50	<.01	41
I6310690	5	<10	N	N	N	<100	N	<10	<20	N	N	100	<.01	41
I6310710	<5	<10	N	N	N	100	N	<10	<20	N	N	200	<.01	41
I6310730	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	<.01	41
I6310740	5	150	N	N	N	100	N	<10	<20	N	N	200	<.01	41
I6310760	30	50	N	N	N	<100	N	15	<20	<10	N	150	.01	41
I6310780	10	<10	N	N	N	<100	N	<10	<20	N	N	200	39	41
I6310790	7	<10	N	N	N	<100	N	<10	<20	N	N	100	.01	41
I6310800	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	<.01	41
I6310810	15	15	N	N	N	<100	N	10	<20	N	N	200	.01	41

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6310830	37 35 39	88 30 39	.07	.5	.05	.2	<.2	.05	N	N	N	<10
I6310840	37 35 39	88 30 39	<.05	.5	.03	.2	<.2	.07	N	N	N	<10
I6310850	37 35 39	88 30 39	<.05	.7	.05	.7	<.2	.07	.5	N	N	<10
I6310860	37 35 39	88 30 39	.07	.5	.05	.2	<.2	.03	N	N	N	<10
I6310870	37 35 39	88 30 39	<.05	.1	.03	<.2	<.2	.01	N	N	N	<10
I6310880	37 35 39	88 30 39	<.05	.3	.05	.5	<.2	.05	N	N	N	<10
I6310910	37 35 39	88 30 39	<.05	.2	.05	.2	<.2	.05	N	N	N	<10
I6310920	37 35 39	88 30 39	.05	.2	.03	<.2	<.2	.02	N	N	N	<10
I6310940	37 35 39	88 30 39	<.05	.1	.02	<.2	<.2	.015	N	N	N	<10
I6310950	37 35 39	88 30 39	.05	.1	.02	<.2	<.2	.015	N	<200	N	<10
I6310970	37 35 39	88 30 39	<.05	.2	.03	.2	<.2	.02	N	N	N	10
I6310990	37 35 39	88 30 39	<.05	.15	.03	<.2	<.2	.01	N	N	N	10
I6311010	37 35 39	88 30 39	.05	.15	.02	<.2	<.2	.015	N	N	N	<10
I6311030	37 35 39	88 30 39	.3	.2	.15	.2	<.2	.015	N	N	N	<10
I6311050	37 35 39	88 30 39	.2	.3	.02	.3	<.2	.02	N	N	N	<10
I6311070	37 35 39	88 30 39	.2	.7	.03	.5	<.2	.05	N	200	N	10
I6311090	37 35 39	88 30 39	<.05	.5	.02	.5	<.2	.03	N	N	N	<10
I6311110	37 35 39	88 30 39	<.05	.2	.03	<.2	<.2	.02	N	N	N	<10
I6311120	37 35 39	88 30 39	<.05	.2	.02	<.2	<.2	.02	N	N	N	<10
I6311140	37 35 39	88 30 39	<.05	.5	.02	.3	<.2	.05	N	N	N	<10
I6311150	37 35 39	88 30 39	<.05	1	.02	1	<.2	.1	N	N	N	<10
I6311170	37 35 39	88 30 39	<.05	.5	.03	.5	<.2	.07	N	<200	N	<10
I6311190	37 35 39	88 30 39	<.05	.2	.02	.2	<.2	.03	N	200	N	<10
I6311200	37 35 39	88 30 39	<.05	.15	.02	<.2	<.2	.015	N	<200	N	<10
I6311210	37 35 39	88 30 39	.07	.5	.03	.3	<.2	.05	N	<200	N	<10
I6311230	37 35 39	88 30 39	.07	.5	.02	.3	<.2	.05	N	<200	N	<10
I6311250	37 35 39	88 30 39	<.05	.3	.02	.2	<.2	.03	N	N	N	<10
I6311270	37 35 39	88 30 39	.05	.3	.03	.2	<.2	.05	N	N	N	<10
I6311290	37 35 39	88 30 39	.2	.3	.02	.2	<.2	.05	N	N	N	<10
I6311310	37 35 39	88 30 39	.1	.5	.05	.2	<.2	.05	N	N	N	10
I6311320	37 35 39	88 30 39	.05	.7	.05	.2	<.2	.07	N	N	N	<10
I6311330	37 35 39	88 30 39	1	.7	.05	.5	<.2	.07	N	N	N	10
I6311340	37 35 39	88 30 39	.2	.2	.02	<.2	<.2	.01	N	N	N	15
I6311350	37 35 39	88 30 39	.05	.2	.03	<.2	<.2	.005	N	N	N	10
I6311370	37 35 39	88 30 39	.15	.1	.03	<.2	<.2	.002	N	N	N	10
I6311390	37 35 39	88 30 39	.15	.15	.05	<.2	<.2	.005	N	N	N	10
I6311410	37 35 39	88 30 39	.15	.3	.05	.2	<.2	.02	N	N	N	10
I6311430	37 35 39	88 30 39	.2	.3	.03	<.2	<.2	.02	N	N	N	10
I6311450	37 35 39	88 30 39	.15	.2	.03	<.2	<.2	.015	N	<200	N	10
I6311470	37 35 39	88 30 39	.15	.2	.05	<.2	<.2	.02	N	<200	N	10
I6312280	37 35 39	88 30 39	.05	.7	.02	.7	<.2	.05	<.5	N	N	10
I6312310	37 35 39	88 30 39	.05	.7	.03	.5	<.2	.05	<.5	N	N	10
I6312330	37 35 39	88 30 39	<.05	.2	.02	.5	<.2	.01	N	<200	N	10
I6312350	37 35 39	88 30 39	.05	.5	.03	.2	<.2	.03	N	N	N	15
I6312370	37 35 39	88 30 39	.05	1	.05	.2	<.2	.02	.5	<200	N	15
I6312390	37 35 39	88 30 39	.05	3	.05	.5	<.2	.07	.5	<200	N	15
I6312410	37 35 39	88 30 39	.05	3	.1	1	<.2	.1	.5	<200	N	10
I6312420	37 35 39	88 30 39	<.05	3	.03	.3	<.2	.03	.7	<200	N	10
I6312440	37 35 39	88 30 39	<.05	3	.05	.5	<.2	.05	.5	N	N	15
I6312460	37 35 39	88 30 39	<.05	.7	<.02	.3	<.2	.02	<.5	N	N	10
I6312480	37 35 39	88 30 39	.05	1.5	.05	.2	<.2	.05	.5	N	N	20
I6312500	37 35 39	88 30 39	.2	1.5	.07	.2	<.2	.02	<.5	N	N	15
I6312520	37 35 39	88 30 39	.2	1	.05	<.2	<.2	.02	<.5	N	N	10
I6312540	37 35 39	88 30 39	.05	1.5	.03	.2	<.2	.02	<.5	N	N	10
I6312560	37 35 39	88 30 39	.07	.5	.05	<.2	<.2	.015	N	<200	N	15
I6312580	37 35 39	88 30 39	.05	1	.02	.3	<.2	.015	<.5	N	N	<10
I6312590	37 35 39	88 30 39	.07	1	.02	.3	<.2	.02	<.5	N	N	10
I6312610	37 35 39	88 30 39	.2	1	.07	<.2	<.2	.015	<.5	<200	N	15
I6312630	37 35 39	88 30 39	.07	1	.05	.2	<.2	.01	.5	N	N	15
I6312650	37 35 39	88 30 39	.2	2	.05	.3	<.2	.03	.7	N	N	15

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6310830	50	N	N	N	<10	10	10	5	N	N	10	15	N
I6310840	70	N	N	N	<10	10	15	7	N	N	10	15	N
I6310850	100	N	N	N	15	10	20	15	N	N	10	30	<20
I6310860	50	N	N	N	<10	10	15	10	N	N	10	20	N
I6310870	20	N	N	N	<10	10	5	5	N	N	10	15	N
I6310880	50	N	N	N	<10	10	10	10	N	N	10	20	N
I6310910	70	N	N	N	<10	10	15	10	N	N	10	50	N
I6310920	70	N	N	N	<10	10	5	10	N	N	10	15	N
I6310940	30	N	N	N	<10	10	<5	7	N	N	10	10	N
I6310950	70	N	N	N	<10	10	<5	7	N	N	10	10	N
I6310970	30	N	N	N	<10	10	5	7	N	N	10	20	N
I6310990	30	N	N	N	<10	10	<5	7	N	N	10	15	N
I6311010	50	N	N	N	<10	10	5	7	N	N	10	15	N
I6311030	30	N	N	N	<10	10	7	7	N	N	10	15	N
I6311050	100	N	N	N	10	10	7	7	N	N	10	15	N
I6311070	200	N	N	N	N	10	15	15	N	N	10	30	N
I6311090	50	N	N	N	N	10	10	10	N	N	10	70	N
I6311110	30	N	N	N	<10	10	7	7	N	N	10	50	N
I6311120	50	N	N	N	<10	10	5	7	N	N	10	10	N
I6311140	100	N	N	N	10	10	20	10	N	N	10	30	<20
I6311150	100	N	N	N	15	10	20	10	N	N	<10	50	<20
I6311170	100	N	N	N	<10	10	15	7	N	N	<10	15	<20
I6311190	30	N	N	N	N	10	10	5	N	N	<10	10	<20
I6311200	50	N	N	N	<10	10	5	10	N	N	<10	10	N
I6311210	100	N	N	N	10	10	20	7	N	N	<10	30	N
I6311230	100	N	N	N	<10	10	20	10	N	N	<10	20	N
I6311250	70	N	N	N	N	10	7	10	N	N	<10	30	N
I6311270	100	N	N	N	N	10	7	10	N	N	<10	20	N
I6311290	100	N	N	N	N	10	7	10	N	N	<10	10	N
I6311310	100	N	N	N	N	10	10	10	N	N	<10	20	<20
I6311320	200	N	N	N	<10	15	15	10	N	N	<10	30	<20
I6311330	100	N	N	N	10	10	20	15	N	N	<10	20	<20
I6311340	100	N	N	N	<10	10	15	7	N	N	<10	10	<20
I6311350	70	N	N	N	<10	10	10	7	N	N	<10	10	<20
I6311370	100	N	N	N	<10	10	<5	5	N	N	<10	5	<20
I6311390	30	N	N	N	<10	10	5	5	N	N	<10	7	<20
I6311410	200	N	N	N	N	10	10	7	N	N	<10	20	<20
I6311430	300	N	N	N	N	10	15	7	N	N	<10	20	<20
I6311450	100	N	N	N	N	10	10	7	N	N	<10	15	<20
I6311470	150	N	N	N	N	10	15	5	N	N	<10	15	<20
I6312280	70	N	N	N	15	<10	15	10	N	N	<10	20	N
I6312310	200	N	N	N	10	<10	15	10	N	N	10	30	N
I6312330	50	N	N	N	N	10	10	10	N	N	10	5	N
I6312350	150	N	N	N	<10	10	15	10	N	N	10	20	N
I6312370	70	N	N	N	<10	10	15	10	N	N	10	7	N
I6312390	150	N	N	N	10	10	30	15	N	N	10	30	<20
I6312410	300	N	N	N	15	10	50	20	N	N	<10	50	<20
I6312420	70	N	N	N	<10	10	30	10	N	N	10	15	N
I6312440	100	N	N	N	10	10	50	15	N	N	10	20	N
I6312460	100	N	N	N	N	10	10	5	N	N	10	20	N
I6312480	150	N	N	N	N	10	20	15	N	N	10	50	<20
I6312500	70	N	N	N	N	10	15	10	N	N	10	50	N
I6312520	100	N	N	N	N	10	15	10	N	N	10	20	N
I6312540	50	N	N	N	N	10	15	10	N	N	10	20	N
I6312560	100	N	N	N	N	10	15	10	N	N	10	15	N
I6312580	50	N	N	N	N	10	20	7	N	N	<10	30	N
I6312590	150	N	N	N	N	10	15	7	N	N	10	20	N
I6312610	150	N	N	N	10	10	20	10	N	N	10	70	<20
I6312630	70	N	N	N	<10	10	15	7	N	N	10	70	N
I6312650	100	N	N	N	10	10	30	10	N	N	10	100	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6310830	15	<10	N	N	N	<100	N	<10	20	N	N	50	.01	41
I6310840	15	15	N	N	N	<100	N	<10	20	N	N	50	<.01	41
I6310850	20	50	N	N	N	<100	N	15	<20	N	N	100	.03	41
I6310860	15	100	N	N	N	<100	N	<10	<20	N	N	70	.02	41
I6310870	<5	<10	N	N	N	<100	N	<10	<20	N	N	50	<.01	41
I6310880	15	<10	N	N	N	<100	N	<10	<20	N	N	50	.01	41
I6310910	15	15	N	N	N	<100	N	<10	20	N	N	50	.01	41
I6310920	10	<10	N	N	N	<100	N	<10	20	N	N	50	.02	41
I6310940	<5	<10	N	N	N	<100	N	<10	20	N	N	30	.01	41
I6310950	5	<10	N	N	N	<100	N	<10	20	N	N	100	<.01	41
I6310970	10	<10	N	N	N	<100	N	<10	20	N	N	50	.02	41
I6310990	5	<10	N	N	N	<100	N	<10	<20	N	N	20	.01	41
I6311010	5	<10	N	N	N	<100	N	<10	<20	N	N	70	.02	41
I6311030	10	<10	N	N	N	<100	N	<10	<20	N	N	50	.01	41
I6311050	15	50	N	N	N	<100	N	<10	<20	N	N	70	.01	41
I6311070	20	50	N	N	N	200	N	<10	<20	N	N	100	.01	41
I6311090	10	15	N	N	N	<100	N	<10	<20	N	N	50	.01	41
I6311110	15	<10	N	N	N	100	N	<10	<20	N	N	70	.01	41
I6311120	10	<10	N	N	N	<100	N	<10	<20	N	N	70	<.01	41
I6311140	15	50	N	<5	N	<100	N	<10	<20	N	N	100	.01	41
I6311150	20	50	N	N	N	<100	N	<10	20	N	N	100	<.01	41
I6311170	15	30	N	N	N	<100	N	<10	<20	N	N	100	.01	41
I6311190	10	<10	N	N	N	<100	N	<10	20	N	N	50	<.01	41
I6311200	10	<10	N	N	N	<100	N	<10	70	N	N	30	.02	41
I6311210	15	50	N	N	N	<100	N	<10	100	N	N	70	.02	41
I6311230	15	50	N	N	N	<100	N	10	150	N	N	50	.01	41
I6311250	10	20	N	N	N	<100	N	<10	<20	N	N	100	<.01	41
I6311270	10	20	N	N	N	<100	N	<10	<20	N	N	70	.01	41
I6311290	10	15	N	N	N	<100	N	<10	<20	N	N	50	<.01	41
I6311310	15	15	N	N	N	<100	N	<10	50	N	N	70	<.01	41
I6311320	15	20	N	N	N	<100	N	10	100	N	N	70	.04	41
I6311330	15	50	N	N	N	300	N	<10	<20	N	N	50	.02	41
I6311340	7	<10	N	N	N	<100	N	<10	20	N	N	30	.01	41
I6311350	7	<10	N	N	N	<100	N	<10	<20	N	N	20	<.01	41
I6311370	5	<10	N	N	N	<100	N	<10	20	N	N	N	<.01	41
I6311390	5	<10	N	N	N	<100	N	<10	<20	N	N	10	.01	41
I6311410	10	50	N	N	N	<100	N	<10	<20	N	N	50	.02	41
I6311430	10	20	N	N	N	<100	N	<10	<20	N	N	20	<.01	41
I6311450	10	<10	N	N	N	<100	N	<10	<20	N	N	30	<.01	41
I6311470	10	20	N	N	N	<100	N	<10	<20	N	N	50	.01	41
I6312280	20	20	N	N	N	N	N	10	20	N	N	50	.01	41
I6312310	20	30	N	N	N	N	N	10	20	N	N	50	.01	41
I6312330	5	100	N	N	N	N	N	10	20	N	N	N	.01	41
I6312350	20	10	N	N	N	N	N	10	30	N	N	30	.02	41
I6312370	15	50	N	N	N	N	N	10	20	N	N	20	<.01	41
I6312390	30	150	N	N	N	N	N	10	20	N	N	100	<.01	41
I6312410	30	150	N	N	50	N	N	10	20	N	N	100	.01	41
I6312420	15	200	N	N	N	N	N	10	20	N	N	50	.01	41
I6312440	20	200	N	N	N	N	N	10	20	N	N	50	.01	41
I6312460	10	70	N	N	N	N	N	10	<20	N	N	30	.01	41
I6312480	15	150	N	N	N	N	N	10	20	N	N	70	.01	41
I6312500	15	100	N	N	N	N	N	15	20	N	N	20	.01	41
I6312520	10	70	N	N	N	N	N	15	20	N	N	15	<.01	41
I6312540	15	100	N	N	N	N	N	15	20	N	N	20	.02	41
I6312560	10	<10	N	N	N	N	N	15	20	N	N	N	.01	41
I6312580	15	100	N	N	N	N	N	15	<20	N	N	<10	.02	41
I6312590	15	100	N	N	N	N	N	15	20	N	N	10	.01	41
I6312610	20	10	N	N	N	N	N	15	20	N	<200	10	.02	41
I6312630	15	100	N	N	N	N	N	10	20	N	N	N	.01	41
I6312650	30	300	N	N	N	N	N	15	20	N	N	20	.01	41

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 163, 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
I6312670	37 35 39	88 30 39	.15	2	.05	.2	<.2	.05	1	N	N	10
I6312690	37 35 39	88 30 39	.3	3	.05	.3	<.2	.07	2	N	N	10
I6312700	37 35 39	88 30 39	.3	3	.05	.2	<.2	.03	1	N	N	15
I6312720	37 35 39	88 30 39	.15	1.5	.05	.2	<.2	.05	.5	N	N	10
I6312740	37 35 39	88 30 39	.05	1.5	<.02	<.2	<.2	.015	.7	N	N	<10
I6312750	37 35 39	88 30 39	<.05	1.5	.05	<.2	<.2	.01	.7	N	N	<10
I6312780	37 35 39	88 30 39	<.05	2	.02	.2	<.2	.03	1.5	N	N	10
I6312800	37 35 39	88 30 39	<.05	1.5	.03	<.2	<.2	.01	1	N	N	10
I6312820	37 35 39	88 30 39	.07	3	.02	<.2	<.2	.015	1.5	N	N	<10
I6312840	37 35 39	88 30 39	.05	1.5	.03	<.2	<.2	.003	1	N	N	<10
I6312860	37 35 39	88 30 39	.07	2	.05	.3	<.2	.05	1.5	N	N	<10
I6312880	37 35 39	88 30 39	.2	2	.05	1	<.2	.07	1.5	N	N	<10
I6312900	37 35 39	88 30 39	.3	1.5	.03	.2	<.2	.05	1.5	N	N	10
I6312920	37 35 39	88 30 39	1	3	.1	.7	<.2	.1	2	N	N	20
I6312930	37 35 39	88 30 39	2	2	3	.5	<.2	.03	1.5	N	N	<10
I6312950	37 35 39	88 30 39	.5	1.5	.1	.3	<.2	.07	2	N	N	50
I6312960	37 35 39	88 30 39	.7	2	.1	.5	<.2	.1	2	N	N	50
I6312970	37 35 39	88 30 39	2	1	2	.5	<.2	.02	.5	N	N	<10
I6312990	37 35 39	88 30 39	.7	3	.3	.5	<.2	.07	2	N	N	30
I6313000	37 35 39	88 30 39	1.5	1.5	.05	.7	<.2	.05	1.5	N	N	10
I6313020	37 35 39	88 30 39	2	3	.3	.2	<.2	.1	2	<200	N	50
I6313030	37 35 39	88 30 39	1.5	10	.2	.3	<.2	.15	10	<200	N	30
I6313050	37 35 39	88 30 39	.3	7	.3	1	<.2	.5	5	<200	N	150
I6313070	37 35 39	88 30 39	.2	5	.3	1.5	<.2	.7	5	N	N	100
I6313090	37 35 39	88 30 39	.5	7	.2	1.5	<.2	.7	7	<200	N	100
I6313110	37 35 39	88 30 39	.2	7	.15	1.5	<.2	.7	10	N	N	50
I6313130	37 35 39	88 30 39	2	7	.15	1.5	<.2	.3	10	<200	N	30
I6313140	37 35 39	88 30 39	3	7	.2	1.5	<.2	.3	15	200	N	200
I6313170	37 35 39	88 30 39	.07	7	.3	2	<.2	1	7	200	N	150
I6313190	37 35 39	88 30 39	.05	10	.15	1.5	<.2	.3	15	500	N	100
I6313210	37 35 39	88 30 39	.1	20	.15	.5	<.2	.15	20	1,000	N	200
I6313230	37 35 39	88 30 39	.1	15	.2	<.2	<.2	.1	20	1,500	N	70
I6313250	37 35 39	88 30 39	2	20	.1	.2	<.2	.07	30	700	N	50
I6313270	37 35 39	88 30 39	.1	7	.07	<.2	<.2	.07	7	200	N	15
I6313290	37 35 39	88 30 39	2	15	.1	<.2	<.2	.05	20	700	N	30
I6313310	37 35 39	88 30 39	2	15	.1	<.2	<.2	.05	15	300	N	30
I6313330	37 35 39	88 30 39	3	>20	.1	<.2	<.2	.07	30	700	N	100
I6313350	37 35 39	88 30 39	5	10	.07	<.2	<.2	.03	15	300	N	30
I6313370	37 35 39	88 30 39	5	7	.1	<.2	<.2	.07	7	200	N	50
I6313380	37 35 39	88 30 39	>20	2	.1	<.2	<.2	.05	3	N	N	50
I6313390	37 35 39	88 30 39	1.5	3	.2	<.2	<.2	.5	3	<200	N	100
I6313410	37 35 39	88 30 39	>20	3	.1	<.2	<.2	.07	5	N	N	50
I6313430	37 35 39	88 30 39	>20	3	.15	<.2	<.2	.07	3	N	N	50
I6313450	37 35 39	88 30 39	20	1	.2	<.2	<.2	.05	1	N	N	30
I6313470	37 35 39	88 30 39	5	2	.15	<.2	<.2	.05	1.5	N	N	50
I6313480	37 35 39	88 30 39	5	3	.1	<.2	<.2	.07	3	N	N	70
I6313500	37 35 39	88 30 39	2	2	.1	<.2	<.2	.1	2	N	N	50
I6313510	37 35 39	88 30 39	15	5	.1	<.2	<.2	.05	10	N	N	30
I6313530	37 35 39	88 30 39	5	5	.05	<.2	<.2	.03	7	200	N	50
I6313550	37 35 39	88 30 39	5	5	.1	<.2	<.2	.1	5	N	N	100
I6313560	37 35 39	88 30 39	10	3	.1	<.2	<.2	.07	5	N	N	70
I6313570	37 35 39	88 30 39	.15	7	.15	<.2	<.2	.5	5	200	N	150
I6313580	37 35 39	88 30 39	7	5	.2	<.2	<.2	.3	3	<200	N	150
I6313590	37 35 39	88 30 39	20	3	.1	<.2	<.2	.03	5	N	N	30
I6313600	37 35 39	88 30 39	2	7	.3	<.2	<.2	.3	3	N	N	150
I6313610	37 35 39	88 30 39	2	7	.3	<.2	<.2	.3	5	N	N	200
I6313620	37 35 39	88 30 39	2	7	.5	<.2	<.2	.5	7	N	N	200
I6313640	37 35 39	88 30 39	.5	2	.5	.2	<.2	.2	1	N	N	70
I6313660	37 35 39	88 30 39	7	2	1.5	.2	<.2	.1	.7	<200	N	70
I6313680	37 35 39	88 30 39	2	1.5	.2	.2	<.2	.1	1	<200	N	50

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6312670	150	N	N	N	10	<10	30	7	N	N	<10	100	N
I6312690	200	N	N	N	15	<10	30	10	N	N	<10	100	20
I6312700	50	N	N	N	10	<10	20	10	N	N	<10	70	<20
I6312720	100	N	N	N	<10	<10	20	10	N	N	<10	30	<20
I6312740	50	N	N	N	N	<10	15	7	N	N	<10	10	N
I6312750	50	N	N	N	N	<10	10	5	N	N	<10	5	N
I6312780	50	N	N	N	15	10	20	10	N	N	<10	20	<20
I6312800	150	N	N	N	N	10	15	10	N	N	<10	10	<20
I6312820	100	N	N	N	N	10	15	15	N	N	<10	15	<20
I6312840	50	N	N	N	<10	<10	10	7	N	N	<10	<5	<20
I6312860	70	N	N	N	10	<10	20	7	N	N	<10	30	<20
I6312880	50	N	N	N	20	<10	20	7	N	N	<10	50	<20
I6312900	70	N	N	N	<10	<10	20	10	N	N	<10	15	<20
I6312920	100	N	N	N	15	<10	30	15	N	N	<10	50	<20
I6312930	70	N	N	N	15	<10	15	5	N	N	50	20	<20
I6312950	100	<1	N	N	10	<10	30	10	N	N	<10	20	<20
I6312960	150	<1	N	N	15	15	50	15	N	N	<10	50	<20
I6312970	50	N	N	N	N	<10	10	<5	N	N	50	15	<20
I6312990	500	<1	N	N	20	<10	30	15	N	N	20	50	<20
I6313000	150	N	N	N	15	<10	20	10	N	N	<10	20	<20
I6313020	500	<1	N	N	<10	<10	30	5	N	N	20	20	<20
I6313030	500	<1	N	N	15	<10	50	20	N	N	50	50	20
I6313050	200	5	N	N	30	15	70	20	N	N	50	30	30
I6313070	700	200	N	N	30	20	100	50	N	N	50	30	<20
I6313090	500	50	N	N	30	20	100	30	N	N	30	30	<20
I6313110	300	1.5	N	N	30	20	100	30	N	N	30	50	<20
I6313130	500	1	N	N	20	20	100	20	N	N	50	30	<20
I6313140	300	5	N	N	30	50	70	30	N	N	50	50	<20
I6313170	700	20	N	N	30	70	100	50	N	N	30	20	20
I6313190	700	5	N	N	30	50	100	50	N	N	50	20	20
I6313210	200	15	N	N	50	20	150	100	N	N	150	30	20
I6313230	150	10	N	N	20	15	100	70	N	N	100	20	<20
I6313250	300	1	N	N	20	<10	100	70	N	N	150	20	20
I6313270	150	2	N	N	10	10	30	20	N	N	30	15	20
I6313290	150	1.5	N	N	20	<10	100	70	N	N	150	20	<20
I6313310	100	1.5	N	N	20	10	100	50	N	N	150	30	20
I6313330	300	3	N	N	20	<10	150	70	N	N	300	30	<20
I6313350	150	<1	N	N	15	<10	50	30	N	N	100	10	<20
I6313370	2,000	2	N	N	20	10	150	20	N	N	70	7	<20
I6313380	500	1	N	N	10	<10	30	<5	N	N	10	<5	N
I6313390	5,000	2	N	N	30	50	150	15	N	N	20	5	N
I6313410	500	1	N	N	15	<10	50	5	N	N	10	<5	N
I6313430	300	1	N	N	20	<10	50	<5	N	N	20	<5	N
I6313450	1,000	1	N	N	10	<10	30	<5	N	N	20	<5	N
I6313470	2,000	1	N	N	10	10	70	7	N	N	50	5	N
I6313480	2,000	1	N	N	15	10	100	7	N	N	50	<5	N
I6313500	5,000	1	N	N	20	10	100	7	N	N	30	<5	N
I6313510	300	1	N	N	20	10	50	10	N	N	30	<5	20
I6313530	5,000	1	N	N	15	10	70	10	N	N	20	<5	N
I6313550	5,000	2	N	N	10	15	70	15	N	N	20	<5	N
I6313560	>5,000	1.5	N	N	10	<10	70	10	N	N	15	<5	N
I6313570	>5,000	2	N	N	50	50	150	20	N	N	20	20	<20
I6313580	>5,000	2	N	N	50	70	100	20	N	N	50	<5	N
I6313590	1,000	1	N	N	20	10	50	5	N	N	15	<5	N
I6313600	2,000	2	N	N	30	50	150	30	N	N	50	10	N
I6313610	5,000	2	N	N	30	50	200	30	N	N	70	10	N
I6313620	>5,000	5	N	N	50	70	150	50	N	N	70	10	N
I6313640	500	1.5	N	N	30	50	70	50	N	N	20	<5	N
I6313660	500	2	N	N	20	20	50	20	N	N	70	<5	N
I6313680	2,000	<1	N	N	15	10	50	15	N	N	30	20	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6312670	30	150	N	N	N	N	N	10	<20	N	N	20	<.01	41
I6312690	30	500	N	N	N	N	N	<10	<20	N	N	100	.12	41
I6312700	20	200	N	N	N	N	N	10	<20	N	N	70	.01	41
I6312720	15	100	N	N	N	N	N	<10	20	N	N	50	<.01	41
I6312740	10	50	N	N	N	N	N	<10	<20	N	N	10	<.01	41
I6312750	10	50	N	N	N	N	N	<10	<20	N	N	N	<.01	41
I6312780	20	150	N	N	N	N	N	<10	20	N	N	50	<.01	41
I6312800	7	100	N	N	N	N	N	<10	20	N	N	10	.01	41
I6312820	10	150	N	N	N	N	N	<10	<20	N	N	N	<.01	41
I6312840	7	70	N	N	N	N	N	<10	<20	N	N	N	.01	41
I6312860	20	150	N	N	N	N	N	10	<20	N	N	10	.01	41
I6312880	30	200	N	N	N	N	N	<10	<20	N	N	10	.02	41
I6312900	20	200	N	N	N	N	N	15	<20	N	N	10	.02	41
I6312920	50	200	N	N	N	100	N	<10	<20	N	N	20	.01	41
I6312930	20	300	N	N	N	100	N	15	<20	N	N	15	.04	41
I6312950	20	150	N	N	N	100	N	15	<20	N	N	20	.06	41
I6312960	30	200	N	N	N	100	N	10	<20	N	N	50	.03	41
I6312970	10	100	N	N	N	<100	N	15	<20	N	N	N	.04	41
I6312990	50	200	N	N	N	<100	N	10	30	N	N	70	.02	41
I6313000	50	100	N	N	N	150	N	<10	<20	N	N	30	.02	41
I6313020	20	100	N	N	N	100	<100	10	20	N	N	50	<.01	41
I6313030	30	1,000	N	N	N	100	<100	10	<20	N	N	100	<.01	41
I6313050	70	500	N	5	N	100	<100	30	<20	N	N	150	.01	41
I6313070	70	3,000	N	<5	N	100	N	50	<20	N	N	150	.02	41
I6313090	50	500	N	5	N	150	<100	30	<20	N	N	200	.01	41
I6313110	70	500	N	<5	N	100	<100	30	<20	N	N	200	.01	41
I6313130	100	1,000	N	N	N	100	<100	30	<20	<10	N	100	.02	41
I6313140	70	1,000	N	5	N	1,000	<100	50	<20	<10	N	100	.17	41
I6313170	70	500	N	5	N	100	<100	30	<20	15	N	200	.07	41
I6313190	50	1,500	N	<5	N	100	<100	30	<20	10	<200	150	.03	41
I6313210	150	3,000	N	<5	N	100	N	30	<20	N	<200	50	.17	41
I6313230	30	2,000	N	N	N	100	<100	20	<20	N	<200	50	.04	41
I6313250	30	3,000	N	N	N	150	<100	10	<20	N	<200	30	.03	41
I6313270	15	700	N	N	N	<100	<100	15	<20	N	N	50	<.01	41
I6313290	30	2,000	N	N	N	700	<100	15	<20	N	<200	100	.03	41
I6313310	50	2,000	N	N	N	200	<100	15	<20	N	<200	70	.02	41
I6313330	50	5,000	N	N	N	500	N	15	<20	N	500	50	.01	41
I6313350	20	3,000	N	N	N	700	<100	15	<20	N	200	20	<.01	41
I6313370	50	2,000	N	N	N	1,000	N	20	<20	N	<200	30	.01	41
I6313380	20	150	N	N	N	3,000	N	<10	N	N	N	20	<.01	41
I6313390	70	100	N	<5	N	200	N	50	500	N	N	200	.02	41
I6313410	20	700	N	N	N	5,000	N	10	70	N	N	10	.02	41
I6313430	20	300	N	N	N	5,000	N	15	20	N	N	10	.02	41
I6313450	15	100	N	N	N	5,000	N	10	<20	N	N	10	<.01	41
I6313470	20	150	N	N	N	1,000	<100	10	<20	N	N	70	.02	41
I6313480	20	300	N	N	N	1,000	<100	15	<20	N	N	10	<.01	41
I6313500	30	150	N	N	N	700	<100	30	<20	N	N	20	.01	41
I6313510	20	700	N	N	N	1,000	<100	10	<20	N	N	50	<.01	41
I6313530	20	500	N	N	N	1,500	<100	10	<20	N	N	50	<.01	41
I6313550	20	1,000	N	N	N	1,500	<100	20	<20	N	N	30	.01	41
I6313560	30	700	N	N	N	1,500	<100	30	<20	N	<200	20	.01	41
I6313570	70	150	N	5	N	1,000	<100	50	150	N	<200	150	.03	41
I6313580	50	200	N	5	N	1,500	<100	70	<20	N	N	100	.03	41
I6313590	20	300	N	<5	N	2,000	N	10	<20	N	N	10	<.01	41
I6313600	70	700	N	5	N	300	100	70	<20	<10	N	100	.04	41
I6313610	70	1,500	N	5	N	300	100	50	<20	<10	N	150	.03	41
I6313620	70	1,000	N	5	N	500	100	70	<20	<10	N	150	.08	41
I6313640	50	100	N	5	N	100	N	30	<20	N	N	70	.11	74
I6313660	50	150	N	<5	N	500	N	20	<20	N	N	70	.05	74
I6313680	30	100	N	N	N	500	N	15	20	N	N	50	.04	74

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6313700	37 35 39	88 30 39	1	2	.3	.2	<.2	.2	1.5	N	N	70
I6313730	37 35 39	88 30 39	1	2	.5	.2	<.2	.2	.5	N	N	150
I6313750	37 35 39	88 30 39	.7	2	.7	.2	<.2	.2	.7	N	N	150
I6313770	37 35 39	88 30 39	.7	2	.7	<.2	<.2	.3	.5	N	N	200
I6313790	37 35 39	88 30 39	1	2	1	.2	<.2	.3	.5	N	N	200
I6313810	37 35 39	88 30 39	.5	3	.7	.3	<.2	.5	.5	N	N	200
I6313820	37 35 39	88 30 39	5	1	.7	.2	<.2	.1	.5	N	N	200
I6313840	37 35 39	88 30 39	1	3	.2	.3	<.2	.2	1.5	N	N	100
I6313860	37 35 39	88 30 39	.5	3	.2	2	<.2	.2	1.5	N	N	100
I6313870	37 35 39	88 30 39	.2	3	.2	.7	<.2	.2	2	200	N	150
I6313890	37 35 39	88 30 39	.15	3	.3	1	<.2	.2	1.5	<200	N	100
I6313910	37 35 39	88 30 39	.07	2	.3	.5	<.2	.2	2	N	N	100
I6313930	37 35 39	88 30 39	.05	2	.3	.5	<.2	.3	2	N	N	70
I6313950	37 35 39	88 30 39	.05	2	.2	.5	<.2	.3	2	N	N	70
I6313970	37 35 39	88 30 39	1	1.5	1	1	<.2	.15	1.5	N	N	20
I6313990	37 35 39	88 30 39	.2	1.5	.2	1.5	<.2	.2	2	N	N	50
I6314000	37 35 39	88 30 39	.1	1	.1	1	<.2	.2	.5	N	N	30
I6314020	37 35 39	88 30 39	.05	1	.3	1	<.2	.7	.5	N	N	50
I6314040	37 35 39	88 30 39	.3	1.5	.7	.7	<.2	.3	.5	N	N	100
I6314060	37 35 39	88 30 39	.15	1.5	.7	1	<.2	.5	<.5	N	N	150
I6314090	37 35 39	88 30 39	.1	1.5	.7	1	<.2	.5	N	N	N	150
I6314110	37 35 39	88 30 39	.1	2	.7	.7	<.2	.7	N	N	N	150
I6314130	37 35 39	88 30 39	.15	2	.7	1.5	<.2	.7	N	N	N	150
I6314150	37 35 39	88 30 39	.15	2	.7	.7	<.2	.7	N	N	N	200
I6314170	37 35 39	88 30 39	.3	2	.7	1.5	<.2	.5	N	N	N	200
I6314190	37 35 39	88 30 39	.1	1.5	.5	1	<.2	.5	N	N	N	150
I6314210	37 35 39	88 30 39	.15	1.5	.5	1	<.2	.5	N	N	N	150
I6314230	37 35 39	88 30 39	.15	2	.7	1	<.2	.5	N	N	N	200
I6314250	37 35 39	88 30 39	.2	1.5	.5	1	<.2	.5	N	N	N	150
I6314270	37 35 39	88 30 39	.2	1.5	.5	1.5	<.2	.3	N	N	N	100
I6314290	37 35 39	88 30 39	.2	1.5	.7	1.5	<.2	.7	N	N	N	200
I6314310	37 35 39	88 30 39	.5	2	.7	1	<.2	.5	N	N	N	200
I6314340	37 35 39	88 30 39	3	3	.7	1	<.2	.2	N	N	N	150
I6314360	37 35 39	88 30 39	.2	2	.5	1.5	<.2	.3	N	N	N	150
I6314380	37 35 39	88 30 39	.2	1.5	.5	1.5	<.2	.2	2	N	N	100
I6314400	37 35 39	88 30 39	.15	1	.5	1.5	<.2	.15	N	N	N	100
I6314410	37 35 39	88 30 39	.2	1	.5	1.5	<.2	.15	N	N	N	100
I6314440	37 35 39	88 30 39	.15	1	.5	2	<.2	.2	<.5	N	N	50
I6314460	37 35 39	88 30 39	.1	.7	.3	1	<.2	.15	N	N	N	50
I6314490	37 35 39	88 30 39	.15	1	.3	1.5	<.2	.2	N	N	N	50
I6314510	37 35 39	88 30 39	.2	1	.2	2	<.2	.2	<.5	<200	N	50
I6314540	37 35 39	88 30 39	.1	.7	.2	.7	<.2	.2	N	N	N	50
I6314570	37 35 39	88 30 39	.1	.2	.1	2	<.2	.3	N	N	N	20
I6314600	37 35 39	88 30 39	.07	.3	.2	1.5	<.2	.2	N	N	N	50
I6314620	37 35 39	88 30 39	.1	.3	.3	1.5	<.2	.2	N	N	N	100
I6314640	37 35 39	88 30 39	.1	.5	.2	2	<.2	.3	N	N	N	50
I6314660	37 35 39	88 30 39	.15	1	.3	1.5	<.2	.5	<.5	N	N	100
I6314680	37 35 39	88 30 39	.1	1	.2	1.5	<.2	.3	<.5	N	N	70
I6314700	37 35 39	88 30 39	.07	1	.2	2	<.2	.3	N	N	N	70
I6314720	37 35 39	88 30 39	.07	1.5	.5	1.5	<.2	.5	N	N	N	100
I6314750	37 35 39	88 30 39	.07	1	.3	1.5	<.2	.5	N	N	N	100
I6314780	37 35 39	88 30 39	.05	1	.3	2	<.2	.5	N	N	N	100
I6314800	37 35 39	88 30 39	<.05	.5	.1	1	<.2	.15	N	<200	N	50
I6314820	37 35 39	88 30 39	<.05	.5	.07	1	<.2	.5	N	N	N	20
I6314840	37 35 39	88 30 39	.07	1	.15	2	<.2	.5	N	N	N	50
I6314860	37 35 39	88 30 39	.05	1	.1	1	<.2	.3	N	N	N	50
I6314890	37 35 39	88 30 39	.05	.7	.15	1.5	<.2	.5	N	N	N	70
I6314920	37 35 39	88 30 39	.05	.7	.2	2	<.2	.5	N	N	N	30

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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
I6313700	200	1.5	N	N	15	20	50	20	N	N	20	<5	<20
I6313730	500	2	N	N	20	30	50	50	N	N	20	<5	<20
I6313750	150	2	N	N	20	50	30	50	N	N	20	<5	<20
I6313770	150	5	N	N	15	50	50	30	N	50	50	<5	<20
I6313790	150	2	N	N	20	50	30	50	N	50	50	<5	N
I6313810	200	1.5	N	N	30	50	50	70	N	50	30	7	<20
I6313820	150	3	N	N	<10	20	50	50	N	N	30	<5	N
I6313840	500	1	N	N	30	20	70	30	N	N	30	15	<20
I6313860	700	1	N	N	30	30	50	50	N	N	50	15	<20
I6313870	500	3	N	N	20	50	50	20	N	N	30	15	<20
I6313890	500	1.5	N	N	20	20	30	30	N	<50	70	20	<20
I6313910	200	1.5	N	N	15	50	70	50	N	<50	70	7	N
I6313930	300	1	N	N	20	50	30	50	N	N	20	15	<20
I6313950	150	1	N	N	15	30	50	30	N	<50	50	20	<20
I6313970	200	<1	N	N	15	<10	20	30	N	<50	70	10	N
I6313990	100	<1	N	N	15	20	20	20	N	<50	20	15	<20
I6314000	150	<1	N	N	15	20	30	30	N	<50	15	10	<20
I6314020	200	N	N	N	20	50	50	70	N	N	10	5	<20
I6314040	200	<1	N	N	30	70	50	70	N	<50	50	<5	N
I6314060	300	<1	N	N	20	70	30	70	N	50	50	<5	N
I6314090	200	<1	N	N	20	50	30	70	N	50	50	<5	N
I6314110	200	<1	N	N	30	50	70	70	N	70	50	<5	N
I6314130	200	<1	N	N	30	50	50	70	N	50	50	<5	N
I6314150	300	1	N	N	30	100	30	70	N	70	50	<5	N
I6314170	300	1	N	N	30	100	50	70	N	100	50	<5	N
I6314190	150	<1	N	N	30	50	30	50	N	100	20	<5	N
I6314210	200	1	N	N	20	100	50	70	N	100	30	<5	N
I6314230	200	1	N	N	30	100	100	70	N	100	50	<5	N
I6314250	100	1	N	N	20	50	30	30	N	50	20	<5	N
I6314270	150	1	N	N	30	50	70	50	N	50	20	<5	N
I6314290	200	1.5	N	N	30	100	70	50	N	70	20	<5	N
I6314310	150	1	N	N	30	70	20	50	N	70	30	<5	<20
I6314340	200	<1	N	N	30	70	20	30	N	50	70	<5	N
I6314360	500	1	N	N	30	50	20	70	N	<50	30	<5	N
I6314380	700	1	N	N	20	30	20	30	N	<50	30	<5	N
I6314400	500	1	N	N	15	20	20	30	N	N	20	<5	N
I6314410	5,000	1	N	N	15	20	15	30	N	N	20	<5	N
I6314440	1,000	<1	N	N	20	50	20	50	N	N	15	<5	N
I6314460	700	<1	N	N	10	10	10	30	N	N	10	<5	N
I6314490	1,000	<1	N	N	15	20	10	30	N	N	20	<5	N
I6314510	500	<1	N	N	15	50	15	30	N	<50	20	<5	N
I6314540	300	<1	N	N	<10	30	15	15	N	<50	15	<5	N
I6314570	700	<1	N	N	10	30	5	30	N	<50	20	<5	N
I6314600	300	<1	N	N	<10	10	15	20	N	<50	15	<5	N
I6314620	500	<1	N	N	10	20	20	20	N	<50	20	<5	N
I6314640	500	<1	N	N	10	10	15	30	N	<50	10	<5	N
I6314660	700	1	N	N	15	50	20	30	N	<50	30	<5	N
I6314680	500	<1	N	N	15	20	15	30	N	<50	15	<5	N
I6314700	500	<1	N	N	30	15	15	30	N	<50	20	<5	N
I6314720	500	<1	N	N	20	70	15	50	N	50	20	<5	N
I6314750	300	1	N	N	20	50	15	50	N	50	20	<5	N
I6314780	500	1	N	N	<10	50	50	50	N	70	20	<5	N
I6314800	500	1	N	N	<10	10	15	30	N	N	10	<5	N
I6314820	500	1	N	N	<10	15	5	20	N	50	10	<5	N
I6314840	300	<1	N	N	20	20	15	50	N	70	20	<5	N
I6314860	500	<1	N	N	<10	20	50	30	N	70	70	<5	N
I6314890	1,000	1	N	N	<10	30	30	30	N	70	30	<5	N
I6314920	500	1	N	N	15	30	20	50	N	70	50	<5	N

TABLE 35--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I63, 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 #
I6313700	30	150	N	5	N	200	N	20	30	N	N	70	.09	74
I6313730	30	100	N	5	N	200	N	30	<20	<10	N	100	.07	74
I6313750	30	100	N	7	N	100	N	30	<20	<10	N	70	.07	74
I6313770	30	150	N	7	N	150	N	50	<20	10	N	100	.24	74
I6313790	30	100	N	7	N	200	N	50	<20	10	N	70	.15	74
I6313810	50	100	N	7	N	150	N	50	<20	15	N	100	.17	74
I6313820	15	100	N	5	N	500	N	20	<20	10	N	50	.12	74
I6313840	50	300	N	<5	N	200	N	30	<20	<10	N	100	.07	74
I6313860	70	150	N	5	N	100	N	30	70	<10	N	100	.08	74
I6313870	70	300	N	5	N	<100	N	30	<20	10	700	100	.08	74
I6313890	50	150	N	<5	N	100	N	30	<20	10	<200	100	.04	74
I6313910	50	150	N	5	N	<100	N	30	<20	<10	N	70	.04	74
I6313930	70	100	N	5	N	<100	N	30	<20	10	N	70	.1	74
I6313950	50	150	N	5	N	100	N	30	70	<10	N	100	.09	74
I6313970	30	100	N	<5	N	<100	N	20	<20	N	N	50	.07	74
I6313990	30	1,000	N	<5	100	<100	N	15	<20	N	300	70	.05	74
I6314000	30	200	N	<5	N	<100	N	20	<20	N	500	70	.03	74
I6314020	50	100	N	5	N	<100	N	50	<20	10	200	100	.08	74
I6314040	70	5,000	N	7	N	<100	N	70	<20	10	<200	70	.07	74
I6314060	70	150	N	7	N	<100	N	70	<20	10	N	100	.1	74
I6314090	50	30	N	7	N	<100	N	70	<20	10	N	70	.08	74
I6314110	70	30	N	10	N	<100	N	50	<20	10	N	100	.06	74
I6314130	70	50	N	7	N	<100	N	70	<20	10	N	100	.16	74
I6314150	70	30	N	10	N	100	N	70	<20	15	N	100	.07	74
I6314170	100	30	N	10	N	150	N	70	<20	15	N	100	.05	74
I6314190	70	30	N	7	N	150	N	50	<20	10	N	70	.06	74
I6314210	70	30	N	7	N	150	N	50	<20	15	N	100	.05	74
I6314230	100	20	N	10	N	150	N	70	<20	15	N	100	.14	74
I6314250	50	20	N	7	N	150	N	50	<20	10	N	100	.05	74
I6314270	70	30	N	7	N	<100	N	50	<20	10	N	70	.03	74
I6314290	70	30	N	10	N	150	N	70	<20	15	N	100	.05	74
I6314310	70	50	N	10	N	150	N	70	<20	15	N	100	.06	74
I6314340	70	50	N	7	N	200	N	50	<20	15	N	100	.06	74
I6314360	50	100	N	5	N	200	N	50	<20	10	N	100	.09	74
I6314380	30	100	N	5	N	200	N	30	20	10	N	150	.08	74
I6314400	20	100	N	<5	N	200	N	30	<20	<10	N	100	.1	74
I6314410	20	100	N	5	N	200	N	20	20	15	N	100	.1	74
I6314440	20	100	N	5	N	100	N	20	<20	10	N	100	.04	72
I6314460	7	20	N	5	N	100	N	15	<20	<10	N	70	.02	72
I6314490	15	20	N	<5	N	100	N	20	<20	10	N	100	.04	72
I6314510	15	30	N	5	N	150	N	20	<20	15	N	200	.02	72
I6314540	15	10	N	5	N	100	N	20	<20	15	N	200	.02	72
I6314570	10	50	N	<5	N	100	N	20	<20	20	N	200	.02	72
I6314600	10	15	N	<5	N	100	N	20	<20	10	N	150	.03	72
I6314620	15	30	N	5	N	100	N	20	<20	10	N	200	.02	72
I6314640	7	50	N	<5	N	100	N	20	<20	10	N	200	.02	72
I6314660	15	20	N	5	N	100	N	20	<20	15	N	200	.04	72
I6314680	15	30	N	5	N	100	N	20	<20	10	N	200	.02	72
I6314700	20	30	N	5	N	100	N	50	<20	10	N	200	.02	72
I6314720	30	30	N	15	N	100	N	50	<20	20	N	100	.06	72
I6314750	30	30	N	10	N	100	N	50	<20	20	N	150	.02	72
I6314780	20	20	N	10	N	100	N	15	<20	20	N	100	.03	72
I6314800	10	10	N	<5	N	100	N	20	<20	10	N	150	.01	74
I6314820	5	50	N	5	N	150	N	30	<20	30	N	500	<.01	74
I6314840	15	30	N	7	N	150	N	20	<20	30	N	300	.02	74
I6314860	20	10	N	5	N	150	N	20	<20	30	N	200	.02	74
I6314890	20	20	N	7	N	150	N	30	<20	20	N	200	.02	74
I6314920	20	50	N	7	N	150	N	30	<20	30	N	300	.03	74

TABLE 36--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I64, 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
I64R0228	37 28 18	88 20 29	<.05	.2	.03	<.2	<.2	.1	N	N	N	15
I64R0238	37 28 18	88 20 29	.15	7	1	<.2	<.2	1	N	N	N	200
I64R0250	37 28 18	88 20 29	.2	7	1	<.2	<.2	1	N	N	N	200
I64R0274	37 28 18	88 20 29	.2	5	1	<.2	<.2	.7	N	N	N	200
I64R0284	37 28 18	88 20 29	.2	7	.7	<.2	<.2	.7	<.5	N	N	200
I64R0330	37 28 18	88 20 29	.05	2	.7	<.2	<.2	.5	N	N	N	200
I64R0356	37 28 18	88 20 29	.5	1	.15	<.2	<.2	.2	N	N	N	30
I64R0379	37 28 18	88 20 29	.15	3	1	<.2	<.2	1	N	N	N	300
I64R0389	37 28 18	88 20 29	.15	3	1	<.2	<.2	1	N	N	N	200
I64R0412	37 28 18	88 20 29	.2	1	.7	<.2	<.2	.7	N	N	N	100
I64R0472	37 28 18	88 20 29	.05	.1	.15	<.2	<.2	.7	N	N	N	100
I64R0551	37 28 18	88 20 29	3	.15	.3	<.2	<.2	.05	N	N	N	<10
I64R0553	37 28 18	88 20 29	5	.07	.2	<.2	<.2	.03	N	N	N	<10

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I64R0228	30	<1	N	N	N	<10	<5	5	N	N	<10	<5	30
I64R0238	300	10	N	N	20	100	50	50	N	<50	100	<5	20
I64R0250	300	7	N	N	30	100	50	20	N	<50	70	10	<20
I64R0274	200	5	N	N	30	100	200	15	N	<50	50	7	N
I64R0284	500	5	N	N	20	100	30	30	N	<50	50	15	<20
I64R0330	150	5	N	N	15	100	100	20	N	N	70	<5	N
I64R0356	100	1	N	N	<10	50	70	5	N	N	10	5	N
I64R0379	200	10	N	N	20	100	50	50	N	<50	70	<5	N
I64R0389	1,000	10	N	N	20	100	50	30	N	50	30	<5	<20
I64R0412	200	5	N	N	10	100	15	10	N	<50	10	<5	N
I64R0472	70	1	N	N	N	50	5	5	N	100	<10	<5	20
I64R0551	N	<1	N	N	N	15	<5	<5	N	N	<10	<5	N
I64R0553	N	<1	N	N	N	10	<5	<5	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 #
I64R0228	<5	<10	N	N	N	<100	N	10	<20	N	N	200	<.01	1
I64R0238	70	20	N	10	N	<100	N	200	<20	<10	N	200	.18	4
I64R0250	100	<10	N	10	N	<100	N	200	<20	<10	N	200	.18	4
I64R0274	100	<10	N	7	N	<100	N	200	<20	N	<200	200	.11	4
I64R0284	150	20	N	10	N	<100	N	200	<20	<10	N	200	.12	4
I64R0330	50	<10	N	10	N	<100	N	100	<20	<10	N	200	.12	4
I64R0356	10	<10	N	<5	N	<100	N	100	<20	N	N	50	.04	4
I64R0379	70	<10	N	10	N	<100	N	200	<20	<10	N	150	.27	4
I64R0389	70	10	N	10	N	<100	N	200	<20	<10	N	100	.24	4
I64R0412	15	<10	N	7	N	<100	N	200	<20	<10	N	1,000	.06	4
I64R0472	<5	<10	N	5	N	<100	N	50	<20	<10	N	1,000	.03	4
I64R0551	<5	<10	N	N	N	<100	N	20	<20	N	N	30	1.42	4
I64R0553	<5	<10	N	N	N	<100	N	15	<20	N	N	100	.36	6

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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
I65R0150	37 59 7	88 10 37	.15	7	1	.5	<.2	.7	N	N	N	150
I65R0230	37 59 7	88 10 37	.05	1.5	.7	1	<.2	>1	N	N	N	100
I65R0290	37 59 7	88 10 37	<.05	2	.7	.7	<.2	>1	N	N	N	100
I65R0330	37 59 7	88 10 37	<.05	2	.7	.7	<.2	>1	N	N	N	150
I65R0400	37 59 7	88 10 37	.05	3	1	.7	<.2	1	N	N	N	100
I65R0450	37 59 7	88 10 37	.1	5	.7	.5	<.2	1	N	N	N	100
I65R0530	37 59 7	88 10 37	.07	2	1	1	<.2	>1	N	N	N	100
I65R0610	37 59 7	88 10 37	<.05	2	1	1	<.2	1	N	N	N	100
I65R0660	37 59 7	88 10 37	<.05	5	1	.3	<.2	1	N	N	N	100
I65R0700	37 59 7	88 10 37	<.05	5	.7	.7	<.2	1	N	N	N	150
I65R0750	37 59 7	88 10 37	<.05	2	.7	.5	<.2	>1	N	N	N	100
I65R0800	37 59 7	88 10 37	<.05	3	.7	.5	<.2	1	N	N	N	100
I65R0850	37 59 7	88 10 37	<.05	2	.7	.7	<.2	>1	N	N	N	150
I65R0900	37 59 7	88 10 37	<.05	5	.7	.7	<.2	1	N	N	N	150
I65R0950	37 59 7	88 10 37	<.05	5	.7	.7	<.2	1	N	N	N	100
I65R1000	37 59 7	88 10 37	<.05	2	.5	.2	<.2	.7	N	N	N	150
I65R1050	37 59 7	88 10 37	<.05	2	.7	.3	<.2	1	N	N	N	150
I65R1100	37 59 7	88 10 37	<.05	2	.7	.3	<.2	>1	N	N	N	150
I65R1150	37 59 7	88 10 37	<.05	1.5	.5	.2	<.2	1	N	N	N	100
I65R1200	37 59 7	88 10 37	<.05	2	.7	.2	<.2	.7	N	N	N	150
I65R1250	37 59 7	88 10 37	<.05	5	.7	.3	<.2	1	N	N	N	150
I65R1300	37 59 7	88 10 37	<.05	5	.7	.5	<.2	1	N	N	N	200
I65R1350	37 59 7	88 10 37	<.05	2	.5	.3	<.2	.3	N	N	N	50
I65R1400	37 59 7	88 10 37	<.05	1.5	.1	<.2	<.2	.3	N	N	N	20
I65R1450	37 59 7	88 10 37	<.05	3	.7	.7	<.2	1	N	N	N	150
I65R1500	37 59 7	88 10 37	<.05	7	.5	.2	<.2	.7	N	N	N	150
I65R1550	37 59 7	88 10 37	<.05	5	.7	.2	<.2	.7	N	N	N	150
I65R1600	37 59 7	88 10 37	<.05	1.5	.5	<.2	<.2	.5	N	N	N	100
I65R1650	37 59 7	88 10 37	<.05	7	1	.2	<.2	1	N	N	N	200
I65R1700	37 59 7	88 10 37	<.05	5	.7	.2	<.2	1	N	N	N	150
I65R1750	37 59 7	88 10 37	<.05	7	.7	<.2	<.2	1	N	N	N	150
I65R1800	37 59 7	88 10 37	<.05	7	1	.2	<.2	.7	N	N	N	150
I65R1850	37 59 7	88 10 37	<.05	5	1	.2	<.2	1	N	N	N	200
I65R1900	37 59 7	88 10 37	<.05	3	.7	<.2	<.2	.7	N	N	N	100
I65R1950	37 59 7	88 10 37	.1	7	.7	.2	<.2	1	N	N	N	150
I65R2000	37 59 7	88 10 37	<.05	2	.7	<.2	<.2	.5	N	N	N	100
I65R2050	37 59 7	88 10 37	<.05	1.5	.5	<.2	<.2	.5	N	N	N	150
I65R2100	37 59 7	88 10 37	<.05	3	1	.2	<.2	.7	N	N	N	200
I65R2170	37 59 7	88 10 37	.2	7	1	.2	<.2	1	N	N	N	200
I65R2230	37 59 7	88 10 37	<.05	5	1	.2	<.2	.7	N	N	N	200
I65R2290	37 59 7	88 10 37	.07	2	1	.2	<.2	.7	N	N	N	200
I65R2340	37 59 7	88 10 37	<.05	1.5	.7	<.2	<.2	.5	N	N	N	70
I65R2390	37 59 7	88 10 37	<.05	3	1	.2	<.2	1	N	N	N	100
I65R2440	37 59 7	88 10 37	.2	5	1	.2	<.2	1	N	N	N	150
I65R2510	37 59 7	88 10 37	.15	7	1	.3	<.2	1	N	N	N	200
I65R2560	37 59 7	88 10 37	.07	3	.7	<.2	<.2	.5	N	N	N	200
I65R2615	37 59 7	88 10 37	.1	5	1	.2	<.2	1	N	N	N	200
I65R2660	37 59 7	88 10 37	<.05	1	.5	.5	<.2	.7	N	N	N	70
I65R2710	37 59 7	88 10 37	<.05	2	.7	.3	<.2	.7	N	N	N	100
I65R2750	37 59 7	88 10 37	.05	5	1	.3	<.2	1	N	N	N	200
I65R2800	37 59 7	88 10 37	<.05	3	1	.3	<.2	.7	N	N	N	150
I65R2850	37 59 7	88 10 37	.05	5	1	.2	<.2	1	N	N	N	200
I65R2890	37 59 7	88 10 37	.05	5	1	.2	<.2	1	N	N	N	200
I65R2930	37 59 7	88 10 37	<.05	5	1	.3	<.2	.7	N	N	N	200
I65R3000	37 59 7	88 10 37	.07	3	.7	<.2	<.2	.5	N	N	N	200
I65R3060	37 59 7	88 10 37	.07	3	.7	.2	<.2	.5	N	N	N	200
I65R3100	37 59 7	88 10 37	.05	5	1	.2	<.2	1	N	N	N	200
I65R3200	37 59 7	88 10 37	.07	2	.7	<.2	<.2	.7	N	N	N	200
I65R3300	37 59 7	88 10 37	.5	5	1	.2	<.2	.7	N	N	N	200
I65R3360	37 59 7	88 10 37	.15	3	.7	.2	<.2	.7	N	N	N	200

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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
I65R0150	700	1.5	N	N	10	100	100	50	N	<50	200	<5	N
I65R0230	500	1	N	N	10	20	30	15	N	<50	100	<5	<20
I65R0290	500	1	N	N	10	50	50	20	N	<50	100	<5	<20
I65R0330	700	1.5	N	N	10	50	50	20	N	50	100	<5	<20
I65R0400	500	1.5	N	N	10	30	70	20	N	50	150	<5	<20
I65R0450	700	1	N	N	20	50	100	15	N	50	100	15	<20
I65R0530	500	1	N	N	15	50	70	15	N	50	150	<5	20
I65R0610	500	1	N	N	15	30	70	50	N	<50	150	<5	N
I65R0660	700	1	N	N	15	30	70	30	N	50	70	7	N
I65R0700	500	1.5	N	N	10	30	70	30	N	50	150	<5	<20
I65R0750	700	1	N	N	<10	50	50	30	N	<50	70	<5	N
I65R0800	500	1.5	N	N	<10	50	30	15	N	<50	150	20	<20
I65R0850	700	1	N	N	15	50	50	20	N	50	150	<5	<20
I65R0900	700	1	N	N	10	70	150	20	N	50	150	30	N
I65R0950	700	1	N	N	10	50	50	15	N	50	100	15	<20
I65R1000	500	1	N	N	10	70	50	15	N	<50	70	20	N
I65R1050	700	1	N	N	15	50	50	20	N	50	70	20	<20
I65R1100	700	1.5	N	N	15	100	70	30	N	50	150	20	<20
I65R1150	500	1.5	N	N	10	50	30	15	N	<50	100	10	<20
I65R1200	700	1.5	N	N	10	50	30	20	N	<50	100	<5	N
I65R1250	1,000	1	N	N	10	50	50	30	N	<50	70	<5	<20
I65R1300	1,000	1.5	N	N	10	50	70	20	N	<50	70	<5	<20
I65R1350	300	<1	N	N	10	30	20	10	N	<50	30	<5	N
I65R1400	150	N	N	N	<10	20	10	7	N	N	10	<5	N
I65R1450	1,000	1	N	N	10	70	50	30	N	<50	50	<5	<20
I65R1500	700	1	N	N	15	70	70	20	N	<50	70	<5	N
I65R1550	500	1	N	N	20	70	30	20	N	<50	70	<5	N
I65R1600	200	1	N	N	<10	50	50	15	N	N	50	<5	N
I65R1650	300	1	N	N	20	100	70	30	N	50	100	<5	<20
I65R1700	700	1.5	N	N	15	100	70	30	N	50	100	<5	<20
I65R1750	500	1	N	N	15	100	150	30	N	50	70	<5	<20
I65R1800	500	1	N	N	20	100	50	50	N	50	100	<5	<20
I65R1850	500	1.5	N	N	15	100	70	30	N	50	100	<5	<20
I65R1900	300	1	N	N	10	100	50	20	N	50	50	<5	<20
I65R1950	500	1.5	N	N	15	100	50	30	N	50	100	<5	<20
I65R2000	150	1	N	N	N	100	30	7	N	N	50	<5	N
I65R2050	200	1.5	N	N	N	70	20	10	N	<50	30	<5	<20
I65R2100	200	1	N	N	10	100	30	10	N	<50	50	<5	<20
I65R2170	300	1.5	N	N	15	100	50	30	N	50	100	<5	<20
I65R2230	200	1	N	N	10	100	30	20	N	50	100	<5	<20
I65R2290	300	1.5	N	N	<10	50	50	50	N	50	30	<5	N
I65R2340	100	<1	N	N	N	30	10	10	N	N	20	<5	N
I65R2390	200	1	N	N	<10	70	50	20	N	N	50	<5	<20
I65R2440	5,000	1.5	N	N	15	70	70	20	N	<50	100	<5	N
I65R2510	300	1	N	N	15	70	70	50	N	50	100	<5	<20
I65R2560	200	1.5	N	N	<10	70	30	10	N	N	70	<5	<20
I65R2615	300	1.5	N	N	15	100	50	30	N	50	100	<5	<20
I65R2660	150	<1	N	N	N	50	20	10	N	N	30	<5	<20
I65R2710	150	1	N	N	10	70	10	10	N	N	30	<5	<20
I65R2750	500	2	N	N	15	100	70	50	N	50	100	<5	<20
I65R2800	200	1.5	N	N	10	50	50	30	N	N	50	<5	<20
I65R2850	300	1.5	N	N	15	70	50	30	N	<50	50	<5	<20
I65R2890	300	2	N	N	15	100	50	30	N	50	100	<5	<20
I65R2930	150	1.5	N	N	20	70	30	50	N	<50	50	<5	<20
I65R3000	100	2	N	N	10	50	10	20	N	<50	50	<5	N
I65R3060	150	1.5	N	N	15	70	10	30	N	<50	30	<5	<20
I65R3100	200	1.5	N	N	15	70	20	50	N	50	50	<5	<20
I65R3200	150	2	N	N	<10	70	10	10	N	N	20	<5	N
I65R3300	200	1.5	N	N	10	50	15	20	N	<50	20	<5	<20
I65R3360	1,000	1.5	N	N	10	70	15	15	N	<50	50	10	N

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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 #
I65R0150	50	<10	N	15	N	<100	N	200	<20	15	<200	200	.05	1
I65R0230	20	<10	N	15	N	<100	N	150	<20	30	<200	1,000	.02	1
I65R0290	20	<10	N	15	N	<100	N	150	<20	30	<200	300	.03	1
I65R0330	30	<10	N	20	N	<100	N	150	<20	30	N	200	.03	1
I65R0400	30	<10	N	20	N	<100	N	200	<20	20	N	200	.03	1
I65R0450	50	<10	N	15	N	<100	N	150	<20	30	<200	200	.03	1
I65R0530	30	10	N	15	N	100	N	150	<20	30	<200	500	.02	1
I65R0610	30	10	N	15	N	<100	N	150	<20	20	<200	200	.03	1
I65R0660	30	10	N	15	N	100	N	150	<20	20	<200	200	.04	1
I65R0700	30	10	N	15	N	100	N	150	<20	20	<200	300	.04	1
I65R0750	20	<10	N	20	N	100	N	200	<20	30	<200	300	.04	1
I65R0800	30	<10	N	15	N	100	N	200	<20	20	<200	300	.03	1
I65R0850	20	<10	N	20	N	100	N	150	<20	30	<200	500	.03	1
I65R0900	50	15	N	20	N	100	N	200	<20	20	<200	300	.04	1
I65R0950	50	10	N	15	N	100	N	200	<20	30	<200	300	.04	1
I65R1000	30	10	N	10	N	100	N	200	<20	15	<200	200	.04	1
I65R1050	30	<10	N	20	N	<100	N	200	<20	30	<200	300	.04	1
I65R1100	30	10	N	20	N	100	N	200	<20	30	<200	200	.04	1
I65R1150	20	<10	N	15	N	<100	N	150	<20	20	200	150	.04	1
I65R1200	30	<10	N	15	N	<100	N	200	<20	15	<200	150	.05	1
I65R1250	20	10	N	15	N	<100	N	150	<20	20	<200	300	.03	1
I65R1300	30	10	N	15	N	<100	N	150	<20	20	<200	500	.03	1
I65R1350	20	<10	N	7	N	<100	N	50	<20	10	200	200	.02	1
I65R1400	7	<10	N	5	N	<100	N	20	<20	<10	<200	200	.01	1
I65R1450	20	<10	N	15	N	<100	N	200	<20	30	<200	300	.03	1
I65R1500	50	<10	N	15	N	<100	N	150	<20	20	<200	1,000	.04	1
I65R1550	30	<10	N	15	N	<100	N	200	<20	20	<200	300	.04	1
I65R1600	15	50	N	10	N	<100	N	150	<20	15	<200	200	.04	1
I65R1650	70	30	N	20	N	<100	N	200	<20	30	<200	500	.04	1
I65R1700	50	50	N	15	N	<100	N	200	20	30	<200	300	.03	1
I65R1750	70	20	N	15	N	<100	N	200	30	30	<200	500	.03	1
I65R1800	70	20	N	15	N	<100	N	200	<20	30	<200	300	.04	1
I65R1850	70	20	N	15	N	100	N	200	<20	30	<200	300	.04	1
I65R1900	50	10	N	15	N	<100	N	200	<20	30	<200	300	.04	3
I65R1950	50	15	N	15	N	<100	N	200	<20	20	<200	200	.03	3
I65R2000	15	<10	N	7	N	<100	N	100	20	10	<200	300	.03	3
I65R2050	15	<10	N	7	N	<100	N	100	<20	15	<200	200	.04	3
I65R2100	20	<10	N	10	N	<100	N	100	50	15	<200	200	.04	3
I65R2170	50	15	N	15	N	<100	N	150	<20	20	<200	200	.07	3
I65R2230	30	<10	N	10	N	100	N	150	<20	20	<200	300	.04	3
I65R2290	30	N	N	10	N	300	N	200	<20	15	<200	500	.05	3
I65R2340	15	N	N	7	N	100	N	100	<20	10	<200	500	.04	3
I65R2390	30	<10	N	15	N	100	N	200	<20	20	<200	1,000	.04	3
I65R2440	50	<10	N	20	N	100	N	200	<20	20	<200	300	.06	4
I65R2510	50	<10	N	20	N	100	N	200	<20	20	<200	500	.09	4
I65R2560	30	<10	N	10	N	100	N	150	<20	15	<200	200	.08	4
I65R2615	50	<10	N	15	N	100	N	200	<20	20	<200	200	.05	4
I65R2660	15	<10	N	7	N	100	N	100	<20	15	N	500	.02	5
I65R2710	20	<10	N	10	N	100	N	100	<20	20	N	200	.04	5
I65R2750	50	15	N	20	N	100	N	200	<20	30	<200	200	.05	5
I65R2800	50	100	N	15	N	100	N	200	<20	20	<200	200	.05	5
I65R2850	50	<10	N	15	N	100	N	200	<20	20	<200	200	.06	5
I65R2890	50	<10	N	15	N	100	N	200	<20	30	<200	150	.06	5
I65R2930	50	<10	N	15	N	100	N	200	<20	20	N	200	.07	6
I65R3000	50	<10	N	15	N	150	N	150	<20	15	<200	100	.07	6
I65R3060	50	<10	N	15	N	200	N	150	<20	20	N	150	.07	6
I65R3100	50	<10	N	15	N	200	N	200	<20	20	<200	150	.07	6
I65R3200	30	<10	N	10	N	300	N	150	<20	15	<200	200	.15	6
I65R3300	50	<10	N	15	N	1,000	N	150	<20	20	N	150	.06	6
I65R3360	30	<10	N	10	N	150	N	150	<20	15	N	100	.06	6

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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
I65R3450	37 59 7	88 10 37	.2	5	.7	.2	<.2	.7	N	N	N	100
I65R3530	37 59 7	88 10 37	.15	5	.7	.2	<.2	.7	N	N	N	100
I65R3600	37 59 7	88 10 37	.2	5	.7	.2	<.2	1	N	N	N	100
I65R3660	37 59 7	88 10 37	.1	5	1	.2	<.2	.7	N	N	N	100
I65R3730	37 59 7	88 10 37	.1	5	.7	.2	<.2	.7	N	N	N	150
I65R3790	37 59 7	88 10 37	.15	10	1	.2	<.2	.7	N	N	N	100
I65R3840	37 59 7	88 10 37	.2	10	1	.2	<.2	1	N	N	N	100
I65R3890	37 59 7	88 10 37	.15	10	1	.2	<.2	1	N	N	N	200
I65R3920	37 59 7	88 10 37	.1	10	.7	.2	<.2	.7	N	N	N	150
I65R4010	37 59 7	88 10 37	20	2	1	<.2	<.2	.3	N	N	N	50
I65R4060	37 59 7	88 10 37	.07	3	.5	.2	<.2	.5	N	N	N	100
I65R4130	37 59 7	88 10 37	.2	1.5	.5	<.2	<.2	.5	N	N	N	100
I65R4200	37 59 7	88 10 37	1	.5	.3	<.2	<.2	.2	N	N	N	100
I65R4250	37 59 7	88 10 37	.3	.7	.5	<.2	<.2	.3	N	N	N	100
I65R4300	37 59 7	88 10 37	.5	.7	.5	<.2	<.2	.5	<.5	N	N	100
I65R4370	37 59 7	88 10 37	.2	2	.5	.2	<.2	.5	<.5	N	N	100
I65R4420	37 59 7	88 10 37	.2	1	.5	<.2	<.2	.5	N	N	N	100
I65R4490	37 59 7	88 10 37	.2	1.5	.3	<.2	<.2	.3	N	N	N	100
I65R4570	37 59 7	88 10 37	.15	1	.3	<.2	<.2	.3	<.5	N	N	100
I65R4630	37 59 7	88 10 37	<.05	3	.7	.3	<.2	.5	<.5	N	N	200
I65R4700	37 59 7	88 10 37	.05	5	.5	.5	<.2	.7	N	N	N	500
I65R4750	37 59 7	88 10 37	<.05	5	.7	.3	<.2	.7	N	N	N	500
I65R4800	37 59 7	88 10 37	<.05	7	.7	.3	<.2	.7	N	N	N	500
I65R4860	37 59 7	88 10 37	.05	5	1	.5	<.2	1	N	N	N	500
I65R4910	37 59 7	88 10 37	.07	7	1	.5	<.2	1	N	N	N	500
I65R4940	37 59 7	88 10 37	.7	5	1	.5	<.2	.5	.7	N	N	300
I65R4990	37 59 7	88 10 37	.2	7	1	.5	<.2	.7	.5	N	N	500
I65R5050	37 59 7	88 10 37	.3	3	.5	<.2	<.2	.2	N	N	N	100
I65R5100	37 59 7	88 10 37	.2	.5	.2	<.2	<.2	.2	N	N	N	70
I65R5150	37 59 7	88 10 37	.15	5	.7	.2	<.2	.3	N	N	N	100
I65R5175	37 59 7	88 10 37	.2	5	.5	.2	<.2	.3	<.5	N	N	150

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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
I65R3450	200	1.5	N	N	15	100	50	30	N	<50	70	<5	N
I65R3530	200	2	N	N	20	100	20	50	N	50	100	10	<20
I65R3600	300	2	N	N	15	100	70	30	N	70	70	10	<20
I65R3660	200	2	N	N	20	100	50	50	N	50	100	7	<20
I65R3730	200	2	N	N	15	100	30	50	N	50	70	10	<20
I65R3790	300	1.5	N	N	15	70	70	50	N	<50	70	20	<20
I65R3840	200	1.5	N	N	15	100	100	30	N	<50	70	15	<20
I65R3890	200	1.5	N	N	20	100	70	30	N	<50	100	<5	<20
I65R3920	150	1.5	N	N	20	100	50	30	N	<50	100	<5	<20
I65R4010	50	1	N	N	<10	30	7	10	N	N	500	<5	N
I65R4060	200	1.5	N	N	10	70	20	20	N	<50	50	7	<20
I65R4130	200	1	N	N	<10	50	10	10	N	<50	20	5	<20
I65R4200	200	<1	N	N	<10	20	20	<5	N	N	20	5	<20
I65R4250	100	<1	N	N	<10	30	10	7	N	N	10	<5	<20
I65R4300	200	1	N	N	<10	30	7	7	N	N	10	<5	<20
I65R4370	200	1	N	N	10	50	30	10	N	N	70	10	<20
I65R4420	100	1	N	N	<10	30	30	7	N	N	20	5	N
I65R4490	200	1	N	N	<10	20	15	5	N	N	30	<5	N
I65R4570	150	1.5	N	N	<10	20	20	10	N	N	15	5	N
I65R4630	500	1.5	N	N	15	70	50	20	N	<50	50	10	<20
I65R4700	500	2	N	N	30	100	150	30	N	<50	100	200	N
I65R4750	500	2	N	N	30	100	150	30	N	N	50	70	<20
I65R4800	500	2	N	N	20	70	150	50	N	<50	50	50	N
I65R4860	500	2	N	N	20	100	150	50	N	<50	70	70	<20
I65R4910	500	3	N	N	20	100	150	20	N	N	70	70	N
I65R4940	300	2	N	N	20	100	200	20	N	N	150	70	N
I65R4990	500	1.5	N	N	30	100	150	30	N	N	200	100	<20
I65R5050	200	<1	N	N	10	20	70	7	N	N	100	50	N
I65R5100	200	<1	N	N	<10	20	15	5	N	N	30	7	N
I65R5150	200	1.5	N	N	20	50	70	10	N	N	150	150	N
I65R5175	200	1.5	N	N	15	30	100	10	N	N	100	70	N

TABLE 37--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I65, 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 #
I65R3450	50	<10	N	15	N	150	N	200	<20	20	<200	200	.08	6
I65R3530	50	<10	N	20	N	1,500	N	150	<20	20	<200	200	.1	11
I65R3600	50	<10	N	20	N	1,000	N	150	<20	30	<200	200	.08	11
I65R3660	50	<10	N	20	N	200	N	150	<20	20	<200	200	.08	11
I65R3730	30	<10	N	20	N	150	N	150	<20	20	N	200	.08	11
I65R3790	50	<10	N	20	N	150	N	200	<20	20	<200	200	.08	11
I65R3840	50	700	N	20	N	100	N	200	<20	15	200	300	.08	11
I65R3890	70	15	N	20	N	100	N	200	<20	20	<200	300	.1	11
I65R3920	70	20	N	15	N	100	N	150	<20	20	<200	150	.08	11
I65R4010	15	10	N	5	N	200	N	100	<20	10	N	50	.05	11
I65R4060	20	30	N	10	N	<100	N	100	<20	20	<200	150	.08	11
I65R4130	30	<10	N	7	N	<100	N	100	<20	<10	<200	100	.05	11
I65R4200	15	<10	N	5	N	100	N	50	<20	N	<200	100	.03	11
I65R4250	15	<10	N	7	N	<100	N	100	<20	<10	<200	100	.04	11
I65R4300	15	<10	N	7	N	150	N	100	<20	10	<200	150	.04	11
I65R4370	30	<10	N	7	N	100	N	100	<20	10	<200	200	.05	11
I65R4420	20	<10	N	7	N	<100	N	100	<20	10	N	100	.06	11
I65R4490	20	<10	N	5	N	100	N	100	<20	10	N	100	.05	11
I65R4570	20	<10	N	5	N	100	N	70	<20	10	N	100	.04	11
I65R4630	70	<10	N	10	N	<100	N	200	<20	15	<200	100	.08	11
I65R4700	100	20	N	15	N	150	N	700	<20	20	<200	200	.06	11
I65R4750	150	30	N	10	N	100	N	200	<20	15	<200	150	.06	11
I65R4800	100	20	N	15	N	100	N	300	<20	20	N	200	.06	11
I65R4860	100	30	N	15	N	100	N	300	<20	30	<200	200	.06	11
I65R4910	100	30	N	15	N	100	N	500	<20	20	200	200	.14	11
I65R4940	100	50	N	10	N	100	N	500	<20	20	<200	100	.1	11
I65R4990	100	20	N	15	N	100	N	1,000	<20	30	<200	150	.08	11
I65R5050	30	N	N	7	N	100	N	100	<20	10	200	70	.02	11
I65R5100	10	10	N	<5	N	100	N	50	<20	<10	<200	50	.03	11
I65R5150	70	10	N	10	N	<100	N	200	<20	20	<200	100	.04	11
I65R5175	50	15	N	10	N	100	N	200	<20	15	<200	100	.03	11

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R0280	37 42 40	88 13 54	.5	2	.7	.5	<.2	.7	N	N	N	150
I66R0330	37 42 40	88 13 54	.5	2	.7	1	<.2	.7	N	N	N	100
I66R0360	37 42 40	88 13 54	.05	3	1.5	.7	<.2	1	N	N	N	500
I66R0390	37 42 40	88 13 54	.2	1	.5	.7	<.2	1	N	N	N	200
I66R0430	37 42 40	88 13 54	.05	3	.7	.5	<.2	1	N	N	N	200
I66R0510	37 42 40	88 13 54	.15	3	.7	.3	<.2	1	N	N	N	200
I66R0540	37 42 40	88 13 54	.07	3	1	.3	<.2	>1	N	N	N	700
I66R0570	37 42 40	88 13 54	.1	3	1	.3	<.2	>1	N	N	N	700
I66R0600	37 42 40	88 13 54	.15	2	1	.2	<.2	>1	N	N	N	700
I66R0630	37 42 40	88 13 54	.07	3	1	.3	<.2	>1	N	N	N	500
I66R0660	37 42 40	88 13 54	<.05	3	1	.5	<.2	>1	N	N	N	500
I66R0690	37 42 40	88 13 54	.05	5	1	.5	<.2	>1	N	N	N	500
I66R0720	37 42 40	88 13 54	<.05	3	.7	.5	<.2	>1	N	N	N	500
I66R0750	37 42 40	88 13 54	<.05	2	.7	.3	<.2	>1	N	N	N	500
I66R0800	37 42 40	88 13 54	<.05	3	.7	.3	<.2	>1	<.5	N	N	500
I66R0830	37 42 40	88 13 54	.05	5	.7	.3	<.2	1	N	N	N	500
I66R0860	37 42 40	88 13 54	<.05	3	.5	.3	<.2	1	N	N	N	300
I66R0890	37 42 40	88 13 54	<.05	5	.7	.2	<.2	>1	N	N	N	500
I66R0930	37 42 40	88 13 54	.05	2	.5	.5	<.2	1	N	N	N	500
I66R0960	37 42 40	88 13 54	.05	3	.5	.5	<.2	>1	<.5	N	N	300
I66R0990	37 42 40	88 13 54	<.05	1	.5	.5	<.2	1	N	N	N	200
I66R1020	37 42 40	88 13 54	<.05	.5	.5	.5	<.2	1	N	N	N	200
I66R1050	37 42 40	88 13 54	<.05	.7	.5	.3	<.2	1	N	N	N	200
I66R1080	37 42 40	88 13 54	<.05	1	.5	.5	<.2	1	N	N	N	200
I66R1110	37 42 40	88 13 54	<.05	1	.5	.2	<.2	1	N	N	N	150
I66R1150	37 42 40	88 13 54	<.05	.5	.3	.3	<.2	1	N	N	N	150
I66R1180	37 42 40	88 13 54	<.05	.5	.3	.5	<.2	1	N	N	N	150
I66R1210	37 42 40	88 13 54	.05	.5	.3	.5	<.2	1	N	N	N	150
I66R1240	37 42 40	88 13 54	.05	.5	.5	.5	<.2	1	N	N	N	150
I66R1270	37 42 40	88 13 54	.05	.5	.5	.5	<.2	1	N	N	N	150
I66R1300	37 42 40	88 13 54	.05	.5	.5	.5	<.2	1	N	N	N	150
I66R1350	37 42 40	88 13 54	<.05	.5	.5	.5	<.2	1	N	N	N	200
I66R1380	37 42 40	88 13 54	<.05	.5	.5	.2	<.2	1	N	N	N	200
I66R1430	37 42 40	88 13 54	<.05	5	.7	.2	<.2	1	N	N	N	200
I66R1460	37 42 40	88 13 54	<.05	3	.5	.2	<.2	1	N	N	N	200
I66R1490	37 42 40	88 13 54	<.05	2	.5	.2	<.2	1	N	N	N	200
I66R1520	37 42 40	88 13 54	<.05	2	.5	.2	<.2	1	N	N	N	200
I66R1580	37 42 40	88 13 54	<.05	2	.5	.2	<.2	1	N	N	N	200
I66R1600	37 42 40	88 13 54	<.05	3	.5	.2	<.2	1	N	N	N	200
I66R1730	37 42 40	88 13 54	<.05	1.5	.5	<.2	<.2	1	N	N	N	200
I66R1760	37 42 40	88 13 54	.05	5	1	<.2	<.2	1	N	N	N	500
I66R1780	37 42 40	88 13 54	<.05	5	.7	<.2	<.2	1	N	N	N	500
I66R1820	37 42 40	88 13 54	.3	5	.7	<.2	<.2	1	N	N	N	500
I66R1850	37 42 40	88 13 54	<.05	5	1	.2	<.2	1	N	N	N	500
I66R1880	37 42 40	88 13 54	.05	5	1	.2	<.2	1	N	N	N	500
I66R1910	37 42 40	88 13 54	<.05	5	1	.2	<.2	1	N	N	N	500
I66R1950	37 42 40	88 13 54	<.05	3	.7	.2	<.2	1	N	N	N	500
I66R1990	37 42 40	88 13 54	<.05	3	.7	.2	<.2	1	N	N	N	300
I66R2020	37 42 40	88 13 54	<.05	3	.5	<.2	<.2	.7	N	N	N	300
I66R2050	37 42 40	88 13 54	<.05	5	.5	<.2	<.2	1	N	N	N	300
I66R2080	37 42 40	88 13 54	<.05	3	.7	<.2	<.2	1	N	N	N	300
I66R2110	37 42 40	88 13 54	<.05	3	.5	<.2	<.2	1	N	N	N	300
I66R2140	37 42 40	88 13 54	.05	5	.7	.2	<.2	1	N	N	N	300
I66R2170	37 42 40	88 13 54	.07	5	.7	<.2	<.2	1	N	N	N	300
I66R2200	37 42 40	88 13 54	.07	5	.7	.2	<.2	1	N	N	N	300
I66R2240	37 42 40	88 13 54	.05	7	1	.2	<.2	1	N	N	N	300
I66R2270	37 42 40	88 13 54	.05	5	1	.2	<.2	1	N	N	N	300
I66R2300	37 42 40	88 13 54	.1	7	1	.2	<.2	1	N	N	N	500
I66R2330	37 42 40	88 13 54	<.05	5	.7	.2	<.2	1	N	N	N	500
I66R2360	37 42 40	88 13 54	.05	5	1	.2	<.2	1	N	N	N	500

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R0280	700	2	N	N	10	70	50	20	N	<50	150	5	<20
I66R0330	700	1	N	N	<10	50	30	15	N	N	150	5	N
I66R0360	1,000	1.5	N	N	15	100	70	30	N	50	50	5	<20
I66R0390	1,500	1	N	N	<10	70	150	7	N	50	50	5	<20
I66R0430	1,000	2	N	N	15	100	70	50	N	50	50	5	<20
I66R0510	1,500	2	N	N	20	150	70	50	N	50	50	10	<20
I66R0540	1,000	2	N	N	20	100	70	50	N	50	50	<5	<20
I66R0570	1,000	3	N	N	30	150	70	30	N	50	50	<5	<20
I66R0600	1,000	3	N	N	20	150	100	70	N	50	50	<5	<20
I66R0630	1,000	5	N	N	20	150	100	20	N	50	50	<5	<20
I66R0660	1,000	2	N	N	20	100	100	50	N	70	70	5	<20
I66R0690	1,000	2	N	N	20	150	100	50	N	50	70	<5	<20
I66R0720	1,000	2	N	N	20	150	70	70	N	50	70	5	20
I66R0750	1,000	2	N	N	<10	150	30	50	N	70	50	5	<20
I66R0800	700	3	N	N	20	150	50	70	N	70	50	5	<20
I66R0830	1,000	2	N	N	20	150	150	50	N	50	30	5	20
I66R0860	700	2	N	N	15	100	30	50	N	<50	20	5	<20
I66R0890	1,000	3	N	N	20	100	50	50	N	50	50	5	20
I66R0930	1,000	3	N	N	20	100	100	70	N	50	70	5	<20
I66R0960	1,000	3	N	N	15	100	70	50	N	50	70	5	<20
I66R0990	700	2	N	N	20	100	50	50	N	70	50	<5	20
I66R1020	500	3	N	N	15	100	50	50	N	50	50	<5	20
I66R1050	500	2	N	N	15	100	30	50	N	50	50	<5	20
I66R1080	1,000	2	N	N	20	100	50	50	N	70	50	<5	20
I66R1110	700	2	N	N	15	100	50	20	N	50	30	<5	<20
I66R1150	700	2	N	N	10	100	30	20	N	<50	50	<5	<20
I66R1180	700	2	N	N	10	50	50	15	N	<50	50	<5	<20
I66R1210	700	2	N	N	15	50	30	20	N	50	30	<5	<20
I66R1240	500	2	N	N	10	50	20	10	N	50	50	<5	<20
I66R1270	500	1.5	N	N	10	50	70	15	N	50	50	<5	<20
I66R1300	700	2	N	N	10	50	50	20	N	50	30	<5	20
I66R1350	700	2	N	N	10	100	20	20	N	50	30	<5	<20
I66R1380	500	2	N	N	10	150	30	20	N	50	50	<5	<20
I66R1430	500	2	N	N	10	100	70	20	N	70	30	<5	<20
I66R1460	500	2	N	N	10	150	50	20	N	50	30	10	<20
I66R1490	500	2	N	N	10	150	30	20	N	50	30	<5	<20
I66R1520	500	2	N	N	<10	100	50	20	N	50	20	<5	<20
I66R1580	500	1.5	N	N	<10	100	30	20	N	50	30	<5	<20
I66R1600	300	2	N	N	10	100	30	20	N	70	30	<5	<20
I66R1730	300	1.5	N	N	<10	100	30	20	N	50	20	<5	<20
I66R1760	300	1.5	N	N	10	150	50	15	N	50	30	<5	<20
I66R1780	200	1.5	N	N	10	150	30	10	N	<50	20	<5	<20
I66R1820	200	1.5	N	N	15	150	150	20	N	50	50	<5	<20
I66R1850	200	1.5	N	N	10	150	30	20	N	50	50	<5	<20
I66R1880	200	1.5	N	N	10	150	50	20	N	<50	70	<5	<20
I66R1910	200	1.5	N	N	15	150	50	30	N	50	70	<5	<20
I66R1950	200	1.5	N	N	15	150	30	50	N	50	50	<5	<20
I66R1990	300	1.5	N	N	10	150	20	30	N	50	30	<5	<20
I66R2020	200	1	N	N	10	100	20	10	N	<50	15	<5	<20
I66R2050	200	1.5	N	N	10	100	20	15	N	<50	20	<5	<20
I66R2080	200	1.5	N	N	15	150	20	20	N	50	20	<5	<20
I66R2110	300	1.5	N	N	15	150	15	20	N	50	20	<5	<20
I66R2140	300	1.5	N	N	15	150	200	50	N	70	50	<5	<20
I66R2170	200	1.5	N	N	15	150	20	30	N	50	50	<5	<20
I66R2200	200	1.5	N	N	15	150	20	30	N	50	50	<5	<20
I66R2240	200	1.5	N	N	15	150	20	30	N	50	50	<5	<20
I66R2270	200	1.5	N	N	15	150	50	50	N	50	50	<5	<20
I66R2300	200	1.5	N	N	15	150	20	30	N	50	50	<5	<20
I66R2330	200	1.5	N	N	15	150	50	20	N	50	30	<5	<20
I66R2360	300	1.5	N	N	15	150	50	30	N	50	50	<5	<20

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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 #
I66R0280	10	10	N	7	N	150	N	200	20	10	300	700	.02	1
I66R0330	10	<10	N	7	N	150	N	200	100	15	<200	700	.01	1
I66R0360	70	<10	N	15	N	150	N	500	<20	30	<200	1,000	.03	1
I66R0390	10	<10	N	7	N	150	N	150	<20	20	<200	>1,000	.01	1
I66R0430	30	<10	N	15	N	150	N	200	<20	30	<200	500	.02	1
I66R0510	70	<10	N	15	N	200	N	200	<20	30	<200	1,000	.02	1
I66R0540	70	<10	N	15	N	200	N	300	<20	30	<200	1,000	.03	1
I66R0570	100	<10	N	15	N	200	N	300	<20	30	<200	1,000	.03	1
I66R0600	100	50	N	15	N	200	N	500	<20	30	<200	1,000	.02	1
I66R0630	70	<10	N	15	N	200	N	300	<20	30	<200	1,000	.03	1
I66R0660	70	<10	N	15	N	200	N	300	<20	30	<200	300	.03	1
I66R0690	70	<10	N	20	N	200	N	500	<20	30	<200	500	.03	1
I66R0720	70	<10	N	15	N	200	N	200	<20	30	<200	500	.02	1
I66R0750	50	<10	N	20	N	200	N	300	<20	30	<200	1,000	.02	1
I66R0800	70	<10	N	20	N	200	N	300	<20	50	<200	1,000	.02	1
I66R0830	100	<10	N	20	N	200	N	200	<20	50	<200	700	.02	1
I66R0860	50	15	N	15	N	150	N	200	<20	30	<200	300	.03	1
I66R0890	70	<10	N	20	N	200	N	300	<20	50	<200	500	.03	1
I66R0930	50	<10	N	20	N	200	N	200	<20	30	<200	200	.03	1
I66R0960	50	10	N	20	N	200	N	200	<20	30	<200	300	.03	1
I66R0990	50	<10	N	15	N	200	N	200	<20	30	300	200	.03	1
I66R1020	50	<10	N	15	N	200	N	150	<20	30	<200	200	.03	1
I66R1050	50	<10	N	15	N	200	N	150	<20	30	<200	200	.03	1
I66R1080	50	<10	N	15	N	200	N	150	<20	30	<200	200	.04	1
I66R1110	50	<10	N	15	N	200	N	150	<20	30	<200	200	.03	1
I66R1150	30	<10	N	10	N	200	N	100	<20	30	<200	200	.03	1
I66R1180	30	<10	N	10	N	200	N	100	<20	20	<200	200	.03	1
I66R1210	30	<10	N	10	N	200	N	100	<20	30	<200	200	.03	1
I66R1240	30	<10	N	10	N	200	N	150	<20	20	<200	200	.04	1
I66R1270	30	<10	N	10	N	200	N	150	<20	30	200	200	.02	1
I66R1300	30	<10	N	15	N	200	N	150	<20	30	200	200	.04	1
I66R1350	30	<10	N	10	N	200	N	150	<20	30	<200	200	.04	1
I66R1380	50	<10	N	15	N	200	N	150	<20	20	<200	150	.04	1
I66R1430	50	<10	N	15	N	200	N	150	<20	20	<200	150	.07	3
I66R1460	50	<10	N	15	N	200	N	150	<20	30	<200	150	.07	3
I66R1490	30	<10	N	15	N	200	N	150	<20	30	<200	150	.05	3
I66R1520	50	<10	N	15	N	200	N	150	<20	30	<200	150	.05	3
I66R1580	50	<10	N	15	N	200	N	150	<20	30	<200	150	.05	3
I66R1600	50	<10	N	15	N	200	N	150	<20	30	<200	200	.05	3
I66R1730	30	<10	N	10	N	200	N	150	<20	20	<200	200	.05	3
I66R1760	50	<10	N	10	N	200	N	200	<20	30	N	700	.08	4
I66R1780	30	<10	N	15	N	200	N	200	<20	15	N	500	.08	4
I66R1820	50	<10	N	15	N	200	N	200	<20	20	N	200	.09	4
I66R1850	50	<10	N	15	N	200	N	200	<20	20	N	300	.08	4
I66R1880	50	<10	N	15	N	200	N	200	<20	20	N	300	.1	4
I66R1910	50	<10	N	15	N	150	N	200	<20	20	N	200	.1	4
I66R1950	50	<10	N	15	N	150	N	200	<20	20	N	300	.08	4
I66R1990	30	<10	N	15	N	150	N	150	<20	20	N	200	.07	5
I66R2020	20	<10	N	7	N	200	N	100	<20	20	N	300	.05	5
I66R2050	20	<10	N	10	N	200	N	150	<20	20	N	300	.06	5
I66R2080	30	<10	N	15	N	200	N	150	<20	20	N	200	.06	5
I66R2110	30	<10	N	15	N	200	N	150	<20	30	N	200	.06	5
I66R2140	30	15	N	15	N	200	N	150	<20	30	N	200	.07	5
I66R2170	30	<10	N	15	N	150	N	150	<20	30	N	200	.09	5
I66R2200	30	<10	N	15	N	150	N	150	<20	30	N	200	.14	5
I66R2240	30	<10	N	15	N	150	N	150	<20	30	N	200	.06	5
I66R2270	30	<10	N	15	N	150	N	150	<20	30	N	150	.06	6
I66R2300	70	10	N	15	N	150	N	200	<20	30	N	200	.05	6
I66R2330	50	<10	N	15	N	150	N	150	<20	30	N	150	.08	6
I66R2360	50	<10	N	15	N	150	N	150	<20	30	N	200	.06	6

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R2390	37 42 40	88 13 54	.05	5	1	.2	<.2	1	N	N	N	500
I66R2420	37 42 40	88 13 54	<.05	3	1	.2	<.2	1	.7	N	N	300
I66R2450	37 42 40	88 13 54	.1	5	.7	.2	<.2	1	N	N	N	300
I66R2520	37 42 40	88 13 54	.07	5	.7	.2	<.2	1	N	N	N	300
I66R2560	37 42 40	88 13 54	.07	5	.7	.2	<.2	1	N	N	N	300
I66R2570	37 42 40	88 13 54	.1	5	.7	.2	<.2	1	N	N	N	300
I66R2630	37 42 40	88 13 54	.15	3	.7	.3	<.2	1	N	N	N	300
I66R2680	37 42 40	88 13 54	.2	2	.7	.2	<.2	.7	N	N	N	200
I66R2730	37 42 40	88 13 54	.15	3	.7	.2	<.2	1	N	N	N	200
I66R2770	37 42 40	88 13 54	.1	2	.5	.2	<.2	1	N	N	N	150
I66R2810	37 42 40	88 13 54	.5	2	.5	.2	<.2	.7	N	N	N	150
I66R2870	37 42 40	88 13 54	.15	3	.5	.2	<.2	1	N	N	N	200
I66R2930	37 42 40	88 13 54	.5	3	.3	.3	<.2	.5	N	N	N	150
I66R3000	37 42 40	88 13 54	1.5	5	.7	.3	<.2	.7	.5	N	N	200
I66R3030	37 42 40	88 13 54	.3	3	.5	.3	<.2	.5	<.5	N	N	200
I66R3070	37 42 40	88 13 54	.3	5	.5	.3	<.2	.5	.5	N	N	200
I66R3110	37 42 40	88 13 54	.15	5	.5	.5	<.2	.7	<.5	N	N	200
I66R3160	37 42 40	88 13 54	20	2	3	<.2	<.2	.15	N	N	N	100
I66R3200	37 42 40	88 13 54	2	5	.5	.3	<.2	.7	N	N	N	200
I66R3230	37 42 40	88 13 54	.2	5	.5	.3	<.2	.7	.5	N	N	200
I66R3270	37 42 40	88 13 54	.2	2	.5	.3	<.2	.5	N	N	N	200
I66R3310	37 42 40	88 13 54	.5	3	.5	.3	<.2	.7	.5	N	N	150
I66R3360	37 42 40	88 13 54	.15	2	.5	.3	<.2	.5	N	N	N	150
I66R3400	37 42 40	88 13 54	.15	2	.5	.3	<.2	.5	<.5	N	N	150
I66R3440	37 42 40	88 13 54	.15	2	.3	.2	<.2	.3	<.5	N	N	150
I66R3480	37 42 40	88 13 54	1	.5	.3	<.2	<.2	.2	N	N	N	100
I66R3530	37 42 40	88 13 54	2	.5	.3	<.2	<.2	.15	<.5	N	N	70
I66R3570	37 42 40	88 13 54	2	.3	.3	<.2	<.2	.15	N	N	N	70
I66R3610	37 42 40	88 13 54	1.5	.5	.3	<.2	<.2	.2	N	N	N	70
I66R3650	37 42 40	88 13 54	.3	.5	.2	<.2	<.2	.2	N	N	N	100
I66R3680	37 42 40	88 13 54	.5	.5	.2	<.2	<.2	.15	N	N	N	100
I66R3750	37 42 40	88 13 54	2	.3	.5	.2	<.2	.15	N	N	N	100
I66R3790	37 42 40	88 13 54	.7	.5	.3	.2	<.2	.2	N	N	N	100
I66R3830	37 42 40	88 13 54	.3	.7	.5	.2	<.2	.2	<.5	N	N	100
I66R3880	37 42 40	88 13 54	.2	.7	.2	.2	<.2	.2	<.5	N	N	100
I66R3930	37 42 40	88 13 54	.1	1	.2	.2	<.2	.3	.5	N	N	100
I66R3950	37 42 40	88 13 54	.05	3	.5	.3	<.2	.5	<.5	N	N	150
I66R4020	37 42 40	88 13 54	<.05	5	.7	.3	<.2	.7	<.5	N	N	200
I66R4070	37 42 40	88 13 54	<.05	5	.5	.5	<.2	.7	N	N	N	300
I66R4130	37 42 40	88 13 54	<.05	7	.7	.5	<.2	1	N	N	N	500
I66R4170	37 42 40	88 13 54	.05	7	1	.5	<.2	1	N	N	N	700
I66R4240	37 42 40	88 13 54	<.05	7	1	.5	<.2	1	N	N	N	700
I66R4280	37 42 40	88 13 54	.1	5	1	.7	<.2	.7	N	N	N	700
I66R4330	37 42 40	88 13 54	.2	7	1	.3	<.2	.5	.7	N	N	300
I66R4355	37 42 40	88 13 54	.15	3	.5	.2	<.2	.3	<.5	N	N	300
I66R4380	37 42 40	88 13 54	.5	1.5	.15	<.2	<.2	.2	<.5	N	N	100
I66R4395	37 42 40	88 13 54	.2	10	.5	<.2	<.2	.5	.5	N	N	500
I66R4415	37 42 40	88 13 54	.2	10	.7	.3	<.2	.5	N	N	N	500
I66R4430	37 42 40	88 13 54	.2	3	.7	.3	<.2	.5	N	N	N	300
I66R4450	37 42 40	88 13 54	.2	2	.5	.2	<.2	.3	N	N	N	150
I66R4470	37 42 40	88 13 54	.2	2	.3	<.2	<.2	.2	N	N	N	100
I66R4480	37 42 40	88 13 54	.2	7	1	.7	<.2	.7	<.5	N	N	500
I66R4500	37 42 40	88 13 54	2	2	.5	.5	<.2	.3	N	N	N	200
I66R4520	37 42 40	88 13 54	1	3	.5	.5	<.2	.5	N	N	N	200
I66R4540	37 42 40	88 13 54	.15	2	.5	.3	<.2	.3	N	N	N	150
I66R4560	37 42 40	88 13 54	.3	.5	.3	<.2	<.2	.15	N	N	N	100
I66R4580	37 42 40	88 13 54	.2	.3	.07	<.2	<.2	.07	N	N	N	70
I66R4600	37 42 40	88 13 54	.5	.5	.2	<.2	<.2	.15	N	N	N	100
I66R4625	37 42 40	88 13 54	.7	.5	.2	<.2	<.2	.1	N	N	N	70
I66R4630	37 42 40	88 13 54	1	.07	.03	<.2	<.2	.015	N	N	N	15

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R2390	300	2	N	N	15	150	50	50	N	50	50	<5	<20
I66R2420	200	3	N	N	15	150	30	50	N	50	50	7	<20
I66R2450	200	2	N	N	15	150		50	N	50	50	<5	<20
I66R2520	200	2	N	N	15	150	50	30	N	50	50	<5	<20
I66R2560	200	1.5	N	N	15	150	30	20	N	50	30	5	<20
I66R2570	300	2	N	N	15	100	100	15	N	50	50	5	<20
I66R2630	300	3	N	N	15	150	70	30	N	70	50	5	N
I66R2680	300	1.5	N	N	10	100	150	20	N	<50	50	7	N
I66R2730	300	2	N	N	15	150	100	20	N	50	50	5	N
I66R2770	150	1.5	N	N	10	100	30	15	N	50	30	5	N
I66R2810	150	1	N	N	10	100	20	7	N	<50	30	7	N
I66R2870	200	1.5	N	N	10	100	30	20	N	<50	30	10	<20
I66R2930	300	1	N	N	10	70	50	10	N	<50	50	10	<20
I66R3000	500	1	N	N	10	150	70	15	N	<50	100	20	<20
I66R3030	500	1	N	N	<10	100	30	10	N	<50	70	20	N
I66R3070	300	1	N	N	10	200	30	10	N	<50	70	30	N
I66R3110	500	1.5	N	N	10	150	50	20	N	<50	100	20	<20
I66R3160	100	<1	N	N	N	50	20	5	N	N	100	5	N
I66R3200	500	1	N	N	<10	70	50	15	N	<50	100	7	<20
I66R3230	300	1	N	N	<10	100	50	10	N	N	100	7	<20
I66R3270	200	1	N	N	<10	70	30	7	N	N	70	15	N
I66R3310	500	1	N	N	<10	100	20	10	N	N	150	5	<20
I66R3360	300	1	N	N	<10	50	20	5	N	N	100	5	N
I66R3400	200	1	N	N	<10	50	15	<5	N	N	100	5	N
I66R3440	300	1	N	N	<10	50	20	5	N	N	150	5	<20
I66R3480	200	<1	N	N	<10	15	10	5	N	N	50	5	N
I66R3530	100	<1	N	N	<10	10	7	5	N	N	20	5	N
I66R3570	150	<1	N	N	<10	10	7	5	N	N	15	5	N
I66R3610	100	<1	N	N	<10	10	10	5	N	N	30	5	N
I66R3650	70	<1	N	N	<10	10	7	5	N	N	50	5	N
I66R3680	100	<1	N	N	<10	10	5	5	N	N	20	5	N
I66R3750	500	<1	N	N	<10	20	5	5	N	N	20	5	N
I66R3790	300	<1	N	N	<10	15	100	5	N	N	20	5	N
I66R3830	200	<1	N	N	<10	20	10	5	N	N	10	5	N
I66R3880	300	<1	N	N	<10	20	10	5	N	N	20	5	N
I66R3930	500	<1	N	N	<10	30	30	5	N	N	15	5	N
I66R3950	500	1.5	N	N	<10	70	50	15	N	N	20	5	N
I66R4020	700	1.5	N	N	15	70	70	15	N	<50	50	50	N
I66R4070	500	2	N	N	30	100	150	20	N	50	100	150	<20
I66R4130	700	3	N	N	30	100	150	20	N	50	100	100	<20
I66R4170	500	2	N	N	30	100	150	15	N	50	70	70	<20
I66R4240	700	2	N	N	30	150	150	20	N	50	100	100	<20
I66R4280	500	2	N	N	20	150	200	20	N	<50	70	30	<20
I66R4330	300	1.5	N	N	20	150	500	7	N	N	150	100	<20
I66R4355	200	<1	N	N	<10	50	70	10	N	N	50	5	N
I66R4380	150	<1	N	N	<10	20	50	<5	N	N	20	<5	N
I66R4395	300	1.5	N	N	10	70	150	30	N	N	200	10	<20
I66R4415	300	1.5	N	N	20	70	200	20	N	N	150	20	<20
I66R4430	300	1.5	N	N	<10	50	150	5	N	N	50	20	<20
I66R4450	200	<1	N	N	<10	30	100	5	N	N	30	15	N
I66R4470	150	<1	N	N	<10	50	70	5	N	N	20	10	N
I66R4480	500	1.5	N	N	20	70	150	50	N	<50	100	30	<20
I66R4500	300	1.5	N	N	10	50	200	15	N	N	70	15	N
I66R4520	300	2	N	N	15	70	150	20	N	N	70	20	N
I66R4540	300	1.5	N	N	10	50	100	15	N	N	30	20	N
I66R4560	150	<1	N	N	<10	20	15	5	N	N	30	5	N
I66R4580	100	<1	N	N	N	20	7	<5	N	N	20	5	N
I66R4600	150	<1	N	N	N	30	7	<5	N	N	20	10	N
I66R4625	150	<1	N	N	N	20	50	<5	N	N	<10	7	N
I66R4630	200	<1	N	N	N	15	<5	<5	N	N	<10	7	N

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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 #
I66R2390	70	<10	N	20	N	150	N	200	<20	20	N	150	.08	6
I66R2420	50	<10	N	15	N	150	N	200	<20	20	N	200	.07	6
I66R2450	50	<10	N	15	N	150	N	200	<20	20	<200	150	.08	6
I66R2520	50	<10	N	15	N	150	N	200	<20	20	N	150	.07	6
I66R2560	50	<10	N	15	N	150	N	200	<20	20	N	700	.05	6
I66R2570	50	<10	N	15	N	200	N	150	<20	20	N	300	.07	6
I66R2630	50	<10	N	15	N	200	N	150	<20	20	N	300	.06	6
I66R2680	30	<10	N	7	N	200	N	150	<20	10	<200	200	.08	6
I66R2730	50	30	N	10	N	300	N	200	<20	15	<200	200	.08	6
I66R2770	20	<10	N	10	N	150	N	150	<20	15	N	150	.06	6
I66R2810	30	<10	N	7	N	700	N	100	<20	10	<200	150	.1	6
I66R2870	30	50	N	10	N	300	N	150	<20	15	<200	150	.06	6
I66R2930	30	1,000	N	10	N	150	N	150	<20	<10	300	200	.3	6
I66R3000	50	20	N	7	N	2,000	N	200	<20	10	<200	150	.24	7
I66R3030	50	<10	N	10	N	5,000	N	200	<20	<10	500	150	.14	7
I66R3070	50	<10	N	7	N	700	N	150	<20	<10	500	150	.12	7
I66R3110	50	50	N	10	N	200	N	200	<20	10	<200	150	.18	7
I66R3160	20	30	N	5	N	1,000	N	70	N	<10	<200	50	.2	7
I66R3200	50	10	N	10	N	300	N	150	<20	<10	<200	20	.3	7
I66R3230	30	10	N	10	N	200	N	150	<20	<10	500	20	.14	7
I66R3270	30	<10	N	5	N	150	N	100	<20	N	200	150	.06	7
I66R3310	30	20	N	10	N	100	N	150	<20	N	200	150	.35	7
I66R3360	50	<10	N	5	70	100	N	50	<20	N	<200	150	.09	7
I66R3400	50	<10	N	5	N	150	N	50	<20	N	<200	150	.06	7
I66R3440	50	<10	N	5	N	100	N	50	<20	N	200	150	.06	7
I66R3480	20	<10	N	<5	N	300	N	30	<20	N	<200	100	.03	7
I66R3530	15	<10	N	N	N	150	N	20	20	N	<200	70	.02	7
I66R3570	10	<10	N	<5	N	200	N	15	<20	N	<200	50	.02	7
I66R3610	15	<10	N	<5	N	150	N	50	<20	N	<200	70	.02	7
I66R3650	15	<10	N	<5	N	<100	N	50	<20	N	<200	150	.03	7
I66R3680	10	<10	N	<5	N	<100	N	30	<20	N	200	50	.03	7
I66R3750	15	<10	N	<5	N	150	N	30	<20	N	N	70	.02	7
I66R3790	15	<10	N	<5	N	100	N	50	<20	N	N	50	.02	7
I66R3830	15	<10	N	<5	N	<100	N	50	<20	N	N	50	.02	7
I66R3880	20	<10	N	<5	N	<100	N	70	<20	N	200	100	.03	7
I66R3930	20	<10	N	<5	N	100	N	100	<20	N	N	150	.02	7
I66R3950	70	<10	N	7	N	100	N	150	70	10	N	150	.02	7
I66R4020	100	10	N	10	N	100	N	300	100	20	<200	200	.02	11
I66R4070	100	20	N	15	N	<100	N	300	<20	30	300	200	.05	11
I66R4130	100	10	N	15	N	200	N	300	<20	30	<200	200	.05	11
I66R4170	150	20	N	15	N	<100	N	700	<20	30	<200	300	.07	11
I66R4240	200	20	N	20	N	<100	N	700	<20	30	<200	200	.07	11
I66R4280	150	50	N	10	N	<100	N	500	<20	20	<200	200	.08	11
I66R4330	500	15	N	10	N	<100	N	1,000	<20	15	200	200	.12	10
I66R4355	30	10	N	5	N	<100	N	300	<20	N	N	100	.05	10
I66R4380	20	<10	N	<5	N	<100	N	70	<20	N	N	30	.02	10
I66R4395	70	20	N	10	N	<100	N	200	<20	<10	<200	150	.06	10
I66R4415	150	20	N	10	N	<100	N	300	<20	10	<200	150	.06	10
I66R4430	100	15	N	7	N	<100	N	300	<20	<10	<200	150	.06	10
I66R4450	50	10	N	5	N	<100	N	200	<20	<10	<200	100	.04	10
I66R4470	20	<10	N	<5	N	<100	N	100	<20	<10	<200	50	.04	10
I66R4480	100	30	N	10	N	<100	N	300	<20	10	<200	200	.06	10
I66R4500	50	30	N	7	N	<100	N	200	<20	<10	<200	100	1	10
I66R4520	70	30	N	10	N	<100	N	200	<20	10	N	150	.28	10
I66R4540	50	20	N	7	N	<100	N	150	<20	N	N	100	.07	10
I66R4560	15	<10	N	<5	N	<100	N	70	<20	N	N	50	.02	10
I66R4580	7	<10	N	N	N	<100	N	30	<20	N	N	20	.02	10
I66R4600	10	<10	N	<5	N	<100	N	100	<20	N	N	30	.02	10
I66R4625	5	<10	N	N	N	<100	N	20	<20	N	300	50	.01	10
I66R4630	<5	<10	N	N	N	700	N	<10	<20	N	N	50	<.01	10

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R4640	37 42 40	88 13 54	2	1	.07	<.2	<.2	.05	N	N	N	15
I66R4650	37 42 40	88 13 54	1	.2	.03	<.2	<.2	.03	N	N	N	15
I66R4660	37 42 40	88 13 54	2	2	.07	.2	<.2	.07	<.5	N	N	<10
I66R4670	37 42 40	88 13 54	1	.15	.05	.2	<.2	.03	N	N	N	10
I66R4675	37 42 40	88 13 54	3	.3	.3	.2	<.2	.05	N	N	N	20
I66R4705	37 42 40	88 13 54	.1	.7	.2	.2	<.2	.2	N	N	N	100
I66R4730	37 42 40	88 13 54	.5	.1	.07	<.2	<.2	.05	10	N	N	50
I66R4750	37 42 40	88 13 54	.15	.07	.05	<.2	<.2	.05	N	N	N	50
I66R4770	37 42 40	88 13 54	.1	.15	.05	<.2	<.2	.05	N	N	N	50
I66R4795	37 42 40	88 13 54	.1	.1	.05	<.2	<.2	.05	N	N	N	50
I66R4820	37 42 40	88 13 54	.2	.07	.05	<.2	<.2	.03	N	N	N	50
I66R4840	37 42 40	88 13 54	.2	.07	.05	<.2	<.2	.02	N	N	N	50
I66R4860	37 42 40	88 13 54	.2	.1	.05	<.2	<.2	.05	N	N	N	50
I66R4880	37 42 40	88 13 54	.15	.2	.05	<.2	<.2	.05	N	N	N	50
I66R4920	37 42 40	88 13 54	.2	.2	.05	<.2	<.2	.07	N	N	N	100
I66R4960	37 42 40	88 13 54	.15	.2	.07	<.2	<.2	.05	N	N	N	70
I66R4990	37 42 40	88 13 54	.15	.1	.07	<.2	<.2	.03	N	N	N	70
I66R5010	37 42 40	88 13 54	.15	.07	.03	<.2	<.2	.02	N	N	N	70
I66R5030	37 42 40	88 13 54	.15	.1	.02	<.2	<.2	.03	N	N	N	70
I66R5050	37 42 40	88 13 54	.15	.07	.02	<.2	<.2	.015	N	N	N	70
I66R5070	37 42 40	88 13 54	.15	.07	.05	<.2	<.2	.05	N	N	N	100
I66R5120	37 42 40	88 13 54	.15	.2	.05	<.2	<.2	.05	N	N	N	100
I66R5170	37 42 40	88 13 54	.15	.15	.05	<.2	<.2	.05	N	N	N	100
I66R5220	37 42 40	88 13 54	.15	.1	.03	<.2	<.2	.03	N	N	N	100
I66R5260	37 42 40	88 13 54	.3	.2	.07	<.2	<.2	.05	N	N	N	100
I66R5300	37 42 40	88 13 54	1	.2	.15	<.2	<.2	.05	N	N	N	100
I66R5340	37 42 40	88 13 54	2	.1	.2	<.2	<.2	.07	N	N	N	100
I66R5380	37 42 40	88 13 54	2	.15	.2	<.2	<.2	.07	N	N	N	100
I66R5420	37 42 40	88 13 54	2	.1	.3	<.2	<.2	.05	N	N	N	100
I66R5460	37 42 40	88 13 54	1.5	.2	.3	<.2	<.2	.07	N	N	N	100
I66R5500	37 42 40	88 13 54	.15	.07	.1	<.2	<.2	.05	N	N	N	100
I66R5540	37 42 40	88 13 54	.5	.07	.2	<.2	<.2	.05	N	N	N	100
I66R5580	37 42 40	88 13 54	.3	.1	.3	<.2	<.2	.1	N	N	N	100
I66R5620	37 42 40	88 13 54	.5	.2	.3	.2	<.2	.15	N	N	N	100
I66R5660	37 42 40	88 13 54	.5	.2	.5	.2	<.2	.3	N	N	N	100
I66R5700	37 42 40	88 13 54	.5	.2	.5	.3	<.2	.3	.5	N	N	100
I66R5750	37 42 40	88 13 54	.2	.5	.5	.5	<.2	.5	<.5	N	N	100
I66R5820	37 42 40	88 13 54	.15	.5	.7	.5	<.2	1	.5	N	N	150
I66R5860	37 42 40	88 13 54	.1	.5	.5	.7	<.2	1	<.5	N	N	200
I66R5910	37 42 40	88 13 54	.1	.5	.5	.7	<.2	1	<.5	N	N	100
I66R5950	37 42 40	88 13 54	.1	7	1	1	<.2	.7	N	N	N	200
I66R6000	37 42 40	88 13 54	.1	5	1	.5	<.2	1	N	N	N	200
I66R6030	37 42 40	88 13 54	.1	3	.7	.3	<.2	1	N	N	N	200
I66R6070	37 42 40	88 13 54	.3	.3	.2	<.2	<.2	.2	N	N	N	100
I66R6100	37 42 40	88 13 54	.3	.3	.2	<.2	<.2	.2	N	N	N	50
I66R6140	37 42 40	88 13 54	.1	.7	.5	.7	<.2	1	N	N	N	150
I66R6200	37 42 40	88 13 54	.05	3	.7	.5	<.2	1	N	N	N	200
I66R6250	37 42 40	88 13 54	.05	3	.7	.7	<.2	1	<.5	N	N	300
I66R6300	37 42 40	88 13 54	.07	5	.7	.5	<.2	1	N	N	N	300
I66R6340	37 42 40	88 13 54	.2	2	.7	.5	<.2	.7	N	N	N	200
I66R6380	37 42 40	88 13 54	.3	1.5	.7	.5	<.2	.7	N	N	N	150
I66R6420	37 42 40	88 13 54	.3	.5	.5	.2	<.2	.3	N	N	N	150
I66R6450	37 42 40	88 13 54	.5	1	.5	<.2	<.2	.3	N	N	N	150
I66R6500	37 42 40	88 13 54	.2	1.5	.7	<.2	<.2	.3	N	N	N	150
I66R6540	37 42 40	88 13 54	.2	1	.7	.2	<.2	.5	N	N	N	150
I66R6580	37 42 40	88 13 54	.15	1	.5	.3	<.2	.5	N	N	N	150
I66R6620	37 42 40	88 13 54	1	1	.7	.2	<.2	.5	N	N	N	150
I66R6660	37 42 40	88 13 54	.3	2	.7	.3	<.2	.7	N	N	N	200
I66R6700	37 42 40	88 13 54	.2	2	.7	.3	<.2	1	N	N	N	200
I66R6740	37 42 40	88 13 54	.2	1.5	.7	.2	<.2	.5	N	N	N	200

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R4640	70	<1	N	N	<10	10	<5	<5	N	N	20	<5	N
I66R4650	30	<1	N	N	<10	10	<5	<5	N	N	20	<5	N
I66R4660	150	<1	N	N	<10	10	15	5	N	N	10	<5	<20
I66R4670	100	<1	N	N	<10	10	5	<5	N	<50	<10	<5	N
I66R4675	200	<1	N	N	<10	10	5	<5	N	<50	<10	<5	N
I66R4705	150	1	N	N	<10	20	30	<5	N	<50	30	15	N
I66R4730	50	<1	N	N	<10	10	5	<5	N	<50	<10	<5	30
I66R4750	50	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R4770	50	<1	N	N	<10	15	5	<5	N	<50	<10	<5	<20
I66R4795	50	<1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R4820	20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R4840	20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R4860	50	<1	N	N	<10	15	7	<5	N	<50	<10	<5	<20
I66R4880	20	<1	N	N	<10	20	5	<5	N	<50	10	<5	<20
I66R4920	50	<1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R4960	100	<1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R4990	70	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5010	20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5030	<20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5050	<20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5070	20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5120	50	<1	N	N	<10	10	15	<5	N	<50	<10	<5	<20
I66R5170	30	<1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R5220	20	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5260	50	<1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R5300	50	<1	N	N	<10	10	20	<5	N	<50	<10	<5	<20
I66R5340	100	<1	N	N	<10	10	10	<5	N	<50	<10	<5	<20
I66R5380	100	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5420	100	<1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5460	100	1	N	N	<10	10	7	<5	N	<50	<10	<5	<20
I66R5500	30	1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5540	70	1	N	N	<10	10	<5	<5	N	<50	<10	<5	<20
I66R5580	100	1	N	N	<10	10	5	<5	N	<50	<10	<5	<20
I66R5620	150	1	N	N	<10	20	10	5	N	N	15	<5	<20
I66R5660	200	1	N	N	<10	50	7	7	N	N	20	<5	<20
I66R5700	200	1	N	N	<10	30	20	10	N	<50	30	<5	<20
I66R5750	300	1	N	N	<10	50	15	15	N	<50	70	<5	N
I66R5820	300	1.5	N	N	<10	50	20	15	N	<50	100	<5	N
I66R5860	500	1.5	N	N	10	70	50	15	N	<50	50	<5	<20
I66R5910	500	1.5	N	N	10	50	20	15	N	<50	50	<5	<20
I66R5950	1,000	2	N	N	10	50	50	30	N	N	150	<5	<20
I66R6000	700	1.5	N	N	20	70	70	30	N	<50	100	5	20
I66R6030	500	1.5	N	N	10	70	100	20	N	N	70	5	<20
I66R6070	200	<1	N	N	<10	20	7	7	N	N	15	5	N
I66R6100	150	<1	N	N	<10	15	5	5	N	N	10	5	N
I66R6140	500	1	N	N	10	50	10	15	N	50	50	5	20
I66R6200	500	1.5	N	N	15	70	50	50	N	50	150	5	<20
I66R6250	500	2	N	N	15	70	50	70	N	50	150	5	20
I66R6300	500	2	N	N	15	50	50	50	N	50	150	5	<20
I66R6340	500	1	N	N	<10	50	30	10	N	N	100	20	<20
I66R6380	300	1	N	N	N	20	30	7	N	<50	50	<5	<20
I66R6420	200	1	N	N	<10	20	15	7	N	N	50	5	N
I66R6450	200	1	N	N	<10	20	15	5	N	N	70	15	N
I66R6500	150	1	N	N	<10	20	50	10	N	N	70	5	N
I66R6540	300	1	N	N	<10	20	20	15	N	N	70	7	N
I66R6580	300	1	N	N	<10	20	20	15	N	N	50	7	N
I66R6620	200	1	N	N	<10	20	7	5	N	N	20	<5	N
I66R6660	300	1.5	N	N	<10	50	100	20	N	N	50	5	<20
I66R6700	300	1.5	N	N	10	50	20	15	N	N	70	5	<20
I66R6740	300	1	N	N	<10	50	20	10	N	N	100	5	N

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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 #
I66R4640	<5	<10	N	N	N	150	N	<10	<20	N	N	100	.01	10
I66R4650	<5	<10	N	N	N	100	N	<10	<20	N	N	100	.01	10
I66R4660	7	<10	N	N	N	<100	N	<10	<20	N	N	300	.01	10
I66R4670	<5	<10	N	N	N	<100	N	<10	20	N	N	200	.01	10
I66R4675	5	<10	N	5	N	700	N	<10	<20	N	N	200	.02	10
I66R4705	10	<10	N	N	N	<100	N	100	<20	10	N	150	.02	10
I66R4730	<5	<10	N	N	N	<100	N	<10	20	N	N	150	.03	10
I66R4750	5	<10	N	N	N	<100	N	<10	20	N	N	100	.02	10
I66R4770	10	<10	N	N	N	<100	N	15	<20	<10	N	150	.01	10
I66R4795	10	<10	N	N	N	<100	N	15	<20	N	N	150	.01	10
I66R4820	10	<10	N	N	N	<100	N	15	20	N	N	100	.02	10
I66R4840	7	<10	N	N	N	<100	N	10	<20	N	N	100	.01	10
I66R4860	10	<10	N	N	N	<100	N	30	<20	N	N	100	.01	10
I66R4880	10	<10	N	N	N	<100	N	15	<20	N	N	100	.01	10
I66R4920	<5	<10	N	N	N	<100	N	10	<20	N	N	150	.02	10
I66R4960	10	<10	N	N	N	<100	N	15	<20	N	N	150	<.01	10
I66R4990	<5	<10	N	N	N	<100	N	20	<20	N	N	100	<.01	10
I66R5010	<5	<10	N	N	N	<100	N	15	<20	N	N	150	<.01	10
I66R5030	<5	<10	N	N	N	<100	N	20	<20	N	N	200	<.01	10
I66R5050	5	<10	N	N	N	<100	N	10	<20	N	N	100	<.01	10
I66R5070	<5	<10	N	N	N	<100	N	10	<20	N	N	150	.01	10
I66R5120	<5	<10	N	N	N	<100	N	20	<20	N	N	100	<.01	10
I66R5170	<5	<10	N	N	N	<100	N	10	<20	N	N	15	<.01	10
I66R5220	<5	<10	N	N	N	<100	N	10	<20	N	N	50	<.01	10
I66R5260	<5	<10	N	N	N	<100	N	15	20	N	N	100	<.01	10
I66R5300	<5	<10	N	N	N	<100	N	10	<20	N	N	150	<.01	10
I66R5340	<5	<10	N	N	N	<100	N	20	20	N	N	150	.01	10
I66R5380	7	<10	N	N	N	<100	N	30	<20	N	N	100	.02	10
I66R5420	<5	<10	N	N	N	100	N	20	<20	N	N	70	.02	10
I66R5460	10	<10	N	N	N	<100	N	30	<20	N	N	100	.02	10
I66R5500	<5	<10	N	N	N	<100	N	<10	<20	N	N	100	.01	15
I66R5540	7	<10	N	N	N	<100	N	20	<20	N	N	70	.01	15
I66R5580	7	<10	N	N	N	<100	N	30	20	N	N	150	.02	15
I66R5620	10	<10	N	5	N	<100	N	50	20	N	N	150	.04	15
I66R5660	10	<10	N	5	N	<100	N	50	<20	N	N	150	.04	15
I66R5700	10	15	N	5	N	100	N	50	<20	10	N	150	.04	15
I66R5750	20	20	N	7	N	<100	N	50	<20	10	N	150	.05	15
I66R5820	20	15	N	10	N	100	N	70	<20	10	N	150	.05	15
I66R5860	20	15	N	10	N	100	N	70	<20	10	N	150	.11	15
I66R5910	15	20	N	7	N	100	N	50	<20	10	N	200	.05	15
I66R5950	30	<10	N	10	N	100	N	100	<20	20	<200	500	.06	15
I66R6000	30	<10	N	15	N	100	N	150	<20	20	N	300	.08	15
I66R6030	20	<10	N	10	N	100	N	150	<20	10	N	200	.06	15
I66R6070	5	<10	N	5	N	100	N	50	<20	N	N	70	.02	15
I66R6100	<5	<10	N	<5	N	100	N	50	<20	N	N	50	.01	15
I66R6140	10	<10	N	10	N	100	N	100	<20	30	N	300	.03	22
I66R6200	15	<10	N	15	N	100	N	150	<20	20	N	200	.05	22
I66R6250	20	<10	N	15	N	100	N	150	<20	20	N	200	.06	22
I66R6300	20	<10	N	15	N	<100	N	150	<20	20	N	150	.05	22
I66R6340	20	<10	N	10	N	100	N	100	<20	10	N	200	.04	22
I66R6380	5	<10	N	5	N	100	N	100	<20	<10	N	500	.02	26
I66R6420	7	<10	N	5	N	<100	N	70	<20	<10	N	100	.02	26
I66R6450	15	<10	N	5	N	100	N	50	<20	<10	N	200	.02	26
I66R6500	15	<10	N	7	N	100	N	70	<20	<10	N	150	.06	30
I66R6540	15	<10	N	7	N	150	N	70	<20	10	N	150	.04	30
I66R6580	15	15	N	7	N	<100	N	70	<20	10	N	100	.04	30
I66R6620	<5	<10	N	5	N	100	N	50	<20	<10	N	150	.04	30
I66R6660	15	20	N	7	N	100	N	100	<20	15	N	150	.04	30
I66R6700	20	20	N	7	N	100	N	100	<20	15	N	150	.04	30
I66R6740	10	10	N	7	N	100	N	100	<20	10	N	150	.06	30

TABLE 38--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I66, 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
I66R6780	37 42 40	88 13 54	.3	1.5	.5	.2	<.2	.5	N	N	N	150
I66R6820	37 42 40	88 13 54	.3	1.5	.5	.3	<.2	.5	N	N	N	150
I66R6860	37 42 40	88 13 54	.15	5	.7	.3	<.2	1	N	N	N	200
I66R6900	37 42 40	88 13 54	.1	5	1	.5	<.2	1	N	N	N	200
I66R6970	37 42 40	88 13 54	1	5	.7	.3	<.2	.7	N	N	N	150
I66R7020	37 42 40	88 13 54	.15	5	.7	.5	<.2	1	N	N	N	200
I66R7050	37 42 40	88 13 54	.1	7	1	.3	<.2	1	N	N	N	200
I66R7100	37 42 40	88 13 54	.1	7	1.5	.3	<.2	1	N	N	N	200
I66R7130	37 42 40	88 13 54	20	1	.5	<.2	<.2	.2	N	N	N	500
I66R7190	37 42 40	88 13 54	20	.5	.2	<.2	<.2	.15	N	N	N	300
I66R7230	37 42 40	88 13 54	15	1.5	.5	<.2	<.2	.3	N	N	N	300
I66R7270	37 42 40	88 13 54	10	1.5	.7	.2	<.2	.7	N	N	N	500

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
I66R6780	300	1	N	N	<10	30	20	10	N	N	70	5	N
I66R6820	300	1	N	N	<10	20	15	5	N	N	50	5	<20
I66R6860	500	1.5	N	N	10	70	150	20	N	N	150	5	<20
I66R6900	700	1.5	N	N	20	100	100	50	N	N	200	20	N
I66R6970	1,000	1	N	N	15	100	100	50	N	<50	150	15	<20
I66R7020	700	1.5	N	N	15	70	50	50	N	50	200	30	<20
I66R7050	500	1.5	N	N	30	100	100	50	N	<50	150	15	<20
I66R7100	500	1.5	N	N	20	100	100	30	N	<50	200	7	<20
I66R7130	500	<1	N	N	N	30	10	<5	N	N	30	<5	N
I66R7190	300	<1	N	N	N	30	10	<5	N	N	15	<5	N
I66R7230	1,000	<1	N	N	<10	30	30	<5	N	N	20	<5	N
I66R7270	1,000	1	N	N	10	50	50	15	N	N	70	7	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 #
I66R6780	15	10	N	7	N	100	N	70	<20	<10	N	100	.04	30
I66R6820	15	<10	N	7	N	100	N	100	<20	10	N	150	.04	30
I66R6860	30	15	N	10	N	100	N	150	<20	15	<200	200	.14	30
I66R6900	50	15	N	15	N	100	N	200	<20	15	<200	200	.16	30
I66R6970	70	20	N	10	N	100	N	150	<20	10	N	100	.74	30
I66R7020	30	300	N	15	N	150	N	200	<20	20	N	200	.24	30
I66R7050	70	<10	N	10	N	100	N	200	<20	10	N	200	.2	30
I66R7100	50	<10	N	10	N	<100	N	200	<20	<10	<200	200	.28	30
I66R7130	7	<10	N	<5	N	>5,000	N	50	<20	N	N	50	.07	30
I66R7190	7	<10	N	<5	N	>5,000	N	15	<20	N	N	30	.09	30
I66R7230	7	<10	N	<5	N	>5,000	N	30	<20	N	N	150	.12	30
I66R7270	10	<10	N	7	N	>5,000	N	70	<20	<10	N	200	.14	30

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I670130	37 20 52	88 51 34	N	.7	.1	N	N	.1	N	N	N	10
I670150	37 20 52	88 51 34	N	2	1.5	.3	N	.3	N	N	N	50
I670190	37 20 52	88 51 34	N	1.5	.5	<.2	N	.15	N	N	N	15
I670210	37 20 52	88 51 34	N	2	1.5	.2	N	.2	N	N	N	20
I670230	37 20 52	88 51 34	<.05	3	1.5	.5	N	.2	N	N	N	20
I670250	37 20 52	88 51 34	<.05	5	2	.5	N	.2	N	N	N	50
I670270	37 20 52	88 51 34	.07	3	2	.7	N	.2	N	N	N	30
I670300	37 20 52	88 51 34	<.05	3	1.5	.5	N	.3	N	N	N	50
I670320	37 20 52	88 51 34	N	2	1	.7	N	.2	N	N	N	10
I670340	37 20 52	88 51 34	N	2	1	.7	N	.2	N	N	N	15
I670360	37 20 52	88 51 34	<.05	5	2	.5	N	.3	N	N	N	70
I670380	37 20 52	88 51 34	<.05	2	1.5	.5	N	.2	N	N	N	20
I670410	37 20 52	88 51 34	<.05	5	2	.5	N	.3	N	N	N	30
I670430	37 20 52	88 51 34	.7	1.5	.15	<.2	N	.07	N	N	N	<10
I670450	37 20 52	88 51 34	20	.7	5	<.2	N	.03	N	N	N	<10
I670470	37 20 52	88 51 34	20	.5	7	<.2	N	.01	N	N	N	N
I670490	37 20 52	88 51 34	15	.3	5	N	N	.01	N	N	N	N
I670510	37 20 52	88 51 34	20	.5	7	N	N	.02	N	N	N	10
I670530	37 20 52	88 51 34	20	.7	5	.3	N	.05	N	N	N	15
I670550	37 20 52	88 51 34	10	1	7	.3	N	.07	N	N	N	10
I670570	37 20 52	88 51 34	20	.1	2	N	N	.01	N	N	N	N
I670590	37 20 52	88 51 34	20	.1	3	N	N	.015	N	N	N	<10
I670610	37 20 52	88 51 34	15	.15	5	<.2	N	.015	N	N	N	<10
I670630	37 20 52	88 51 34	.5	.3	.15	N	N	.007	N	N	N	10
I670650	37 20 52	88 51 34	.2	1	1.5	N	N	.1	N	N	N	15
I670670	37 20 52	88 51 34	.1	.7	1	N	N	.1	.5	N	N	<10
I670690	37 20 52	88 51 34	<.05	.07	.3	N	N	.01	N	N	N	10
I670710	37 20 52	88 51 34	.15	.05	.15	N	N	.01	N	N	N	20
I670730	37 20 52	88 51 34	10	.1	2	N	N	.015	N	N	N	<10
I670750	37 20 52	88 51 34	.7	.15	.1	N	N	.01	N	N	N	15
I670770	37 20 52	88 51 34	20	.07	1.5	<.2	N	.01	N	N	N	<10
I670790	37 20 52	88 51 34	20	.15	5	.2	N	.015	N	N	N	10
I670810	37 20 52	88 51 34	15	.1	1	N	N	.01	N	N	N	10
I670830	37 20 52	88 51 34	10	.2	3	N	N	.01	N	N	N	10
I670850	37 20 52	88 51 34	7	.3	1	N	N	.05	N	N	N	30
I670870	37 20 52	88 51 34	15	.2	3	.3	N	.03	N	N	N	10
I670890	37 20 52	88 51 34	15	.3	5	.2	N	.03	N	N	N	10
I670910	37 20 52	88 51 34	.3	.2	.1	N	N	.02	N	N	N	15
I670930	37 20 52	88 51 34	10	.5	5	.2	N	.03	N	N	N	10
I670950	37 20 52	88 51 34	20	1	5	1	N	.1	N	N	N	20
I670970	37 20 52	88 51 34	1	2	1	.7	N	.15	N	N	N	20
I670990	37 20 52	88 51 34	.5	3	1	1	N	.3	<.5	N	N	50
I671010	37 20 52	88 51 34	.3	5	.7	.5	N	.3	.5	N	N	30
I671030	37 20 52	88 51 34	.1	.7	.15	N	N	.05	N	N	N	10
I671050	37 20 52	88 51 34	.1	.7	.2	<.2	N	.05	N	N	N	10
I671070	37 20 52	88 51 34	.15	1.5	.5	.5	N	.2	N	N	N	15
I671090	37 20 52	88 51 34	10	.5	1	.2	N	.03	N	N	N	10
I671110	37 20 52	88 51 34	.2	.7	.2	<.2	N	.07	N	N	N	15
I671130	37 20 52	88 51 34	.15	.7	.2	<.2	N	.07	N	N	N	15
I671150	37 20 52	88 51 34	.07	1.5	.5	.3	N	.2	N	N	N	30
I671170	37 20 52	88 51 34	10	.3	1	<.2	N	.02	N	N	N	<10
I671190	37 20 52	88 51 34	20	.3	1.5	<.2	N	.03	N	N	N	<10
I671210	37 20 52	88 51 34	.7	.5	.1	N	N	.03	N	N	N	10
I671230	37 20 52	88 51 34	.07	.2	.5	.5	N	.15	N	N	N	30
I671250	37 20 52	88 51 34	.05	2	.5	.5	N	.2	N	N	N	50
I671270	37 20 52	88 51 34	10	1	.7	.5	N	.1	N	N	N	20
I671290	37 20 52	88 51 34	15	.3	1	<.2	N	.01	N	N	N	<10
I671320	37 20 52	88 51 34	.07	.5	.02	N	N	.02	N	N	N	20
I671350	37 20 52	88 51 34	.07	1.5	.1	<.2	N	.07	N	N	N	30
I671370	37 20 52	88 51 34	20	.15	1	N	N	.007	N	N	N	<10

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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
I670130	<20	N	N	N	N	<10	N	N	N	N	N	N	N
I670150	200	1	N	N	<10	70	5	50	N	<50	15	N	N
I670190	70	N	N	N	N	15	15	10	N	N	10	N	N
I670210	50	<1	N	N	N	50	5	20	N	N	10	N	N
I670230	50	<1	N	N	<10	50	<5	30	N	N	10	N	N
I670250	70	<1	N	N	10	70	5	50	N	N	10	N	N
I670270	70	<1	N	N	10	70	10	70	N	N	15	<5	<20
I670300	70	<1	N	N	10	70	15	50	N	N	10	<5	<20
I670320	30	N	N	N	N	20	5	20	N	N	<10	N	N
I670340	50	N	N	N	<10	30	7	15	N	N	10	N	N
I670360	50	1	N	N	10	70	15	30	N	N	15	N	<20
I670380	30	N	N	N	<10	50	5	20	N	N	10	N	N
I670410	50	<1	N	N	<10	70	7	50	N	N	10	N	N
I670430	30	N	N	N	15	15	30	N	N	N	10	<5	N
I670450	<20	N	N	N	N	10	5	N	N	N	10	N	N
I670470	N	N	N	N	N	<10	5	N	N	N	10	N	N
I670490	N	N	N	N	N	<10	N	N	N	N	10	N	N
I670510	<20	N	N	N	N	10	<5	N	N	N	15	N	N
I670530	30	N	N	N	<10	20	5	<5	N	N	30	5	N
I670550	150	N	N	N	N	20	7	5	N	N	20	N	N
I670570	<20	N	N	N	N	N	N	N	N	N	10	N	N
I670590	N	N	N	N	N	N	N	N	N	N	10	N	N
I670610	<20	N	N	N	N	<10	N	N	N	N	<10	N	N
I670630	20	N	N	N	N	N	<5	N	N	N	N	N	N
I670650	150	N	N	N	N	10	10	N	N	N	<10	5	N
I670670	20	N	N	N	N	N	5	N	N	N	N	N	N
I670690	N	N	N	N	N	N	N	N	N	N	N	N	N
I670710	<20	N	N	N	N	N	N	N	N	N	N	N	N
I670730	<20	N	N	N	N	<10	N	N	N	N	N	N	N
I670750	30	N	N	N	N	N	5	N	N	N	N	N	N
I670770	N	N	N	N	N	<10	N	N	N	N	<10	<5	N
I670790	30	N	N	N	N	<10	<5	N	N	N	10	<5	N
I670810	N	N	N	N	N	10	N	N	N	N	N	N	N
I670830	30	N	N	N	N	N	<5	N	N	N	N	N	N
I670850	30	N	N	N	N	15	5	N	N	N	<10	<5	N
I670870	20	N	N	N	N	20	N	N	N	N	<10	N	N
I670890	20	N	N	N	N	15	N	N	N	N	<10	10	N
I670910	N	N	N	N	N	N	<5	N	N	N	N	<5	N
I670930	<20	N	N	N	N	<10	N	N	N	N	10	N	N
I670950	70	N	N	N	N	50	7	15	N	N	30	<5	N
I670970	300	N	N	N	15	20	15	15	N	N	20	<5	N
I670990	500	<1	N	N	N	150	20	30	N	N	30	5	<20
I671010	200	N	N	N	N	200	15	30	N	N	15	10	<20
I671030	70	N	N	N	N	10	<5	N	N	N	N	<5	N
I671050	30	N	N	N	N	10	5	N	N	N	N	<5	N
I671070	100	N	N	N	N	50	15	10	N	N	10	5	N
I671090	30	N	N	N	N	20	<5	<5	N	N	<10	<5	N
I671110	50	N	N	N	N	15	10	N	N	N	<10	5	N
I671130	30	N	N	N	N	10	5	N	N	N	N	<5	N
I671150	100	N	N	N	N	30	7	7	N	N	15	<5	N
I671170		N	N	N	N	<10	N	N	N	N	<10	N	N
I671190	50	N	N	N	N	10	N	N	N	N	10	N	N
I671210	500	N	N	N	N	N	5	N	N	N	N	N	N
I671230	100	N	N	N	N	20	7	10	N	N	15	<5	N
I671250	200	N	N	N	N	30	15	15	N	N	15	<5	N
I671270	200	N	N	N	N	20	5	5	N	N	15	N	N
I671290	<20	N	N	N	N	N	N	N	N	N	10	N	N
I671320	20	N	N	N	N	N	5	N	N	N	N	N	N
I671350	100	N	N	N	N	<10	7	<5	N	N	10	N	N
I671370	<20	N	N	N	N	<10	N	N	N	N	10	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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 #
I670130	<5	N	N	N	N	N	N	10	N	N	N	100	<.01	2
I670150	20	<10	N	7	N	N	N	50	N	<10	N	70	.03	2
I670190	10	N	N	N	N	N	N	20	N	N	N	70	.02	2
I670210	15	<10	N	<5	N	N	N	30	N	N	N	50	.05	2
I670230	20	N	N	<5	N	N	N	30	N	N	N	50	.1	2
I670250	20	<10	N	5	N	N	N	30	N	N	N	30	.09	2
I670270	20	10	N	7	N	N	N	50	N	<10	N	50	.11	2
I670300	20	10	N	<5	N	N	N	50	N	N	<200	70	.09	2
I670320	10	N	N	N	N	N	N	30	N	N	N	100	.06	2
I670340	10	N	N	N	N	N	N	30	N	N	N	100	.05	2
I670360	30	<10	N	5	N	N	N	70	N	10	N	100	.09	2
I670380	15	N	N	<5	N	N	N	50	N	N	N	50	.1	2
I670410	20	200	N	<5	N	N	N	70	N	N	N	30	.11	2
I670430	10	N	N	N	N	N	N	15	N	N	N	30	.05	2
I670450	<5	15	N	N	N	150	N	10	N	N	N	10	.35	2
I670470	<5	<10	N	N	N	100	N	<10	N	N	N	<10	.16	2
I670490	N	<10	N	N	N	100	N	<10	N	N	N	<10	.06	2
I670510	<5	100	N	N	N	100	N	10	N	N	200	15	.19	2
I670530	10	10	N	N	N	150	N	15	50	N	N	20	.12	2
I670550	7	100	N	N	N	1,000	N	20	N	N	N	30	.37	2
I670570	N	<10	N	N	N	700	N	<10	N	N	N	N	.08	2
I670590	N	<10	N	N	N	300	N	<10	N	N	N	15	.12	2
I670610	N	10	N	N	N	300	N	<10	N	N	N	10	.12	2
I670630	<5	N	N	N	N	3,000	N	N	N	N	200	N	.26	2
I670650	10	500	N	N	N	5,000	N	20	N	N	N	50	.27	2
I670670	7	<10	N	N	N	1,000	N	15	N	N	N	50	.22	2
I670690	<5	N	N	N	N	<100	N	N	N	N	N	N	.07	2
I670710	N	N	N	N	N	N	N	N	N	N	N	N	.01	2
I670730	<5	N	N	N	N	200	N	10	N	N	N	N	.05	2
I670750	5	N	N	N	N	3,000	N	<10	N	N	N	N	.22	2
I670770	N	<10	N	N	N	150	N	10	N	N	N	N	.1	2
I670790	<5	150	N	N	N	1,000	N	10	N	<10	N	N	.1	2
I670810	<5	70	N	N	N	150	N	10	N	N	N	N	.03	2
I670830	5	70	N	N	N	1,000	N	10	N	N	N	N	.16	2
I670850	15	N	N	N	N	1,000	N	30	N	N	200	<10	.14	2
I670870	7	N	N	N	N	300	N	15	N	N	N	<10	.04	2
I670890	7	15	N	N	N	200	N	15	N	N	N	10	.07	2
I670910	5	N	N	N	N	100	N	10	<20	N	N	N	.07	2
I670930	<5	<10	N	N	N	150	N	10	N	N	N	15	.17	2
I670950	10	<10	N	<5	N	300	N	30	N	N	N	20	.17	2
I670970	15	<10	N	<5	N	3,000	N	70	N	N	N	20	.35	2
I670990	30	10	N	5	N	5,000	N	150	N	N	200	50	.53	2
I671010	50	15	N	<5	N	300	N	150	50	N	1,000	70	.69	2
I671030	10	50	N	N	N	1,500	N	20	N	N	<200	15	.17	2
I671050	10	150	N	N	N	300	N	20	N	N	N	10	.16	2
I671070	20	10	N	N	N	500	N	50	<20	N	<200	30	.24	2
I671090	7	15	N	N	N	200	N	20	N	N	N	<10	.15	2
I671110	15	N	N	N	N	1,000	N	30	N	N	<200	10	.26	2
I671130	10	N	N	N	N	150	N	20	N	N	<200	20	.13	2
I671150	10	20	N	N	N	<100	N	50	N	N	N	50	.14	2
I671170	<5	N	N	N	N	3,000	N	10	N	N	N	<10	.33	2
I671190	<5	10	N	N	N	500	N	10	N	N	N	10	.11	2
I671210	5	150	N	N	N	5,000	N	10	N	N	N	<10	.93	2
I671230	15	70	N	N	N	100	N	30	N	N	N	20	.17	2
I671250	20	100	N	N	N	500	N	50	N	N	N	30	.18	2
I671270	7	15	N	N	N	1,500	N	20	N	N	N	20	.15	2
I671290	N	15	N	N	N	150	N	N	N	N	N	N	.03	2
I671320	5	N	N	N	N	<100	N	N	50	N	300	<10	.04	2
I671350	10	15	N	N	N	3,000	N	20	20	N	N	15	.06	2
I671370	N	150	N	N	N	200	N	<10	N	N	N	N	.04	2

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I671390	37 20 52	88 51 34	.1	.1	.02	N	N	.02	N	N	N	15
I671420	37 20 52	88 51 34	.07	.7	.05	N	N	.05	N	N	N	30
I671440	37 20 52	88 51 34	.05	.7	.1	<.2	N	.05	N	N	N	15
I671470	37 20 52	88 51 34	.15	.5	.07	N	N	.05	N	N	N	15
I671490	37 20 52	88 51 34	.3	.5	.15	N	N	.05	N	N	N	10
I671510	37 20 52	88 51 34	.5	.3	.2	N	N	.05	N	N	N	10
I671530	37 20 52	88 51 34	.2	.5	.15	<.2	N	.05	N	N	N	10
I671550	37 20 52	88 51 34	.3	.7	.3	<.2	N	.07	N	N	N	15
I671570	37 20 52	88 51 34	.2	.3	.15	N	N	.03	N	N	N	<10
I671600	37 20 52	88 51 34	.15	.5	.1	N	N	.05	N	N	N	10
I671620	37 20 52	88 51 34	.2	.7	.2	<.2	N	.07	N	N	N	20
I671640	37 20 52	88 51 34	.1	.7	.15	<.2	N	.1	N	N	N	15
I671660	37 20 52	88 51 34	.5	.2	.15	N	N	.02	N	N	N	10
I671680	37 20 52	88 51 34	.3	.5	.15	N	N	.05	N	N	N	<10
I671700	37 20 52	88 51 34	.7	.5	.2	N	N	.05	N	N	N	15
I671720	37 20 52	88 51 34	.3	.3	.2	N	N	.05	N	N	N	10
I671740	37 20 52	88 51 34	.2	.5	.15	N	N	.05	N	N	N	10
I671760	37 20 52	88 51 34	.15	.2	.15	N	N	.015	N	N	N	15
I671780	37 20 52	88 51 34	.3	.3	.15	N	N	.03	N	N	N	10
I671800	37 20 52	88 51 34	.5	.15	.2	N	N	.02	N	N	N	15
I671820	37 20 52	88 51 34	.5	.5	.2	N	N	.03	N	N	N	20
I671840	37 20 52	88 51 34	.3	.15	.15	N	N	.015	N	N	N	10
I671860	37 20 52	88 51 34	.7	.3	.3	N	N	.03	N	N	N	15
I671880	37 20 52	88 51 34	.5	.3	.2	N	N	.05	N	N	N	10
I671900	37 20 52	88 51 34	.7	.5	.3	<.2	N	.07	N	N	N	15
I671920	37 20 52	88 51 34	.5	.5	.2	<.2	N	.05	N	N	N	<10
I671940	37 20 52	88 51 34	.5	.07	.3	N	N	.01	N	N	N	10
I671960	37 20 52	88 51 34	.5	.2	.2	N	N	.02	N	N	N	10
I671980	37 20 52	88 51 34	.7	.15	.2	N	N	.15	N	N	N	<10
I672000	37 20 52	88 51 34	.5	.3	.2	<.2	N	.05	N	N	N	10
I672020	37 20 52	88 51 34	.3	.7	.3	<.2	N	.1	<.5	N	N	30
I672040	37 20 52	88 51 34	.2	.7	.15	.2	N	.07	N	N	N	10
I672070	37 20 52	88 51 34	<.05	2	.5	1	N	.2	N	N	N	50
I672090	37 20 52	88 51 34	N	1	.3	.5	N	.2	N	N	N	50
I672110	37 20 52	88 51 34	N	1.5	1	1.5	N	.3	N	N	N	100
I672150	37 20 52	88 51 34	N	2	1	1	N	.3	N	N	N	100
I672370	37 20 52	88 51 34	.2	1	.5	.2	N	.07	N	N	N	30
I672390	37 20 52	88 51 34	20	1.5	2	<.2	N	.05	N	N	N	10
I672410	37 20 52	88 51 34	.1	.5	.15	N	N	.03	N	N	N	10
I672430	37 20 52	88 51 34	.1	.5	.1	N	N	.03	N	N	N	10
I672450	37 20 52	88 51 34	.05	.2	.07	N	N	.015	N	N	N	15
I672470	37 20 52	88 51 34	.1	.15	.1	N	N	.01	N	N	N	10
I672500	37 20 52	88 51 34	<.05	.1	.05	N	N	.01	N	N	N	10
I672520	37 20 52	88 51 34	.3	.2	.15	N	N	.02	N	N	N	15
I672540	37 20 52	88 51 34	.07	.3	.1	N	N	.03	N	N	N	20
I672580	37 20 52	88 51 34	N	.1	.02	N	N	.01	N	N	N	10
I672600	37 20 52	88 51 34	N	.05	<.02	N	N	.007	N	N	N	<10
I672620	37 20 52	88 51 34	N	.07	.02	N	N	.007	N	N	N	<10
I672640	37 20 52	88 51 34	N	.05	<.02	N	N	.007	N	N	N	10
I672660	37 20 52	88 51 34	.1	.2	.07	N	N	.02	N	N	N	15
I672680	37 20 52	88 51 34	.1	.1	.02	N	N	.007	N	N	N	20
I672700	37 20 52	88 51 34	.05	.07	<.02	N	N	.003	N	N	N	15
I672730	37 20 52	88 51 34	.05	.07	<.02	N	N	.007	N	N	N	15
I672750	37 20 52	88 51 34	.05	.05	<.02	N	N	.007	N	N	N	15
I672770	37 20 52	88 51 34	N	.07	.02	N	N	.005	N	N	N	20
I672790	37 20 52	88 51 34	<.05	.05	<.02	N	N	.005	N	N	N	15
I672810	37 20 52	88 51 34	N	<.05	<.02	N	N	.005	N	N	N	15
I672830	37 20 52	88 51 34	<.05	.07	.03	N	N	.007	N	N	N	30
I672850	37 20 52	88 51 34	<.05	.05	.02	N	N	.005	N	N	N	50
I672870	37 20 52	88 51 34	.05	<.05	<.02	N	N	.003	N	N	N	50

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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
I671390	<20	N	N	N	N	N	N	N	N	N	N	N	N
I671420	30	N	N	N	N	<10	5	N	N	N	10	N	N
I671440	70	N	N	N	N	<10	5	N	N	N	<10	N	N
I671470	150	N	N	N	N	N	<5	N	N	N	<10	N	N
I671490	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I671510	30	N	N	N	N	N	5	N	N	N	<10	N	N
I671530	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I671550	50	N	N	N	N	<10	5	<5	N	N	10	N	N
I671570	20	N	N	N	N	N	N	N	N	N	N	N	N
I671600	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I671620	30	N	N	N	N	<10	5	N	N	N	<10	N	N
I671640	30	N	N	N	N	<10	5	N	N	N	<10	N	N
I671660	<20	N	N	N	N	N	N	N	N	N	N	N	N
I671680	300	N	N	N	N	N	<5	N	N	N	N	N	N
I671700	50	N	N	N	N	N	5	N	N	N	<10	N	N
I671720	30	N	N	N	N	N	5	N	N	N	<10	N	N
I671740	20	N	N	N	N	N	5	N	N	N	<10	N	N
I671760	20	N	N	N	N	N	N	N	N	N	N	N	N
I671780	50	N	N	N	N	N	<5	N	N	N	N	N	N
I671800	30	N	N	N	N	N	<5	N	N	N	N	N	N
I671820	70	N	N	N	N	N	7	N	N	N	<10	N	N
I671840	200	N	N	N	N	N	N	N	N	N	N	N	N
I671860	20	N	N	N	N	N	<5	N	N	N	N	N	N
I671880	30	N	N	N	N	N	<5	N	N	N	N	N	N
I671900	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I671920	50	N	N	N	N	N	5	N	N	N	<10	N	N
I671940	20	N	N	N	N	N	N	N	N	N	N	N	N
I671960	100	N	N	N	N	N	<5	N	N	N	N	N	N
I671980	150	N	N	N	N	N	N	N	N	N	N	N	N
I672000	30	N	N	N	N	N	<5	N	N	N	N	N	N
I672020	50	N	N	N	N	<10	10	N	N	N	<10	N	N
I672040	20	N	N	N	<10	<10	10	N	N	N	N	N	N
I672070	100	N	N	N	N	20	20	20	N	N	10	N	N
I672090	70	N	N	N	N	10	15	7	N	N	<10	N	N
I672110	300	1	N	N	<10	70	20	50	N	<50	20	N	<20
I672150	300	<1	N	N	10	50	50	50	N	<50	15	<5	<20
I672370	70	N	N	N	N	<10	30	5	N	N	10	<5	N
I672390	20	N	N	N	N	20	<5	<5	N	<50	100	N	N
I672410	<20	N	N	N	N	N	5	N	N	N	10	N	N
I672430	20	N	N	N	N	N	7	N	N	N	15	N	N
I672450	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I672470	N	N	N	N	N	N	<5	N	N	N	N	N	N
I672500	N	N	N	N	N	N	N	N	N	N	N	N	N
I672520	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I672540	30	N	N	N	N	N	5	N	N	N	<10	N	N
I672580	N	N	N	N	N	N	N	N	N	N	N	N	N
I672600	N	N	N	N	N	N	N	N	N	N	N	N	N
I672620	N	N	N	N	N	N	N	N	N	N	N	N	N
I672640	N	N	N	N	N	N	<5	N	N	N	N	N	N
I672660	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I672680	N	N	N	N	N	N	N	N	N	N	N	N	N
I672700	N	N	N	N	N	N	N	N	N	N	N	N	N
I672730	N	N	N	N	N	N	N	N	N	N	N	N	N
I672750	N	N	N	N	N	N	N	N	N	N	N	N	N
I672770	N	N	N	N	N	N	N	N	N	N	N	N	N
I672790	N	N	N	N	N	N	N	N	N	N	N	N	N
I672810	N	N	N	N	N	N	N	N	N	N	N	N	N
I672830	N	N	N	N	N	N	N	N	N	N	N	N	N
I672850	N	N	N	N	N	N	N	N	N	N	N	N	N
I672870	N	N	N	N	N	N	N	N	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I671390	N	N	N	N	N	<100	N	N	N	N	N	20	<.01	2
I671420	5	<10	N	N	N	200	N	30	N	N	N	20	.04	2
I671440	7	N	N	N	N	3,000	N	20	N	N	N	15	.04	2
I671470	7	N	N	N	N	3,000	N	10	N	N	N	30	.11	2
I671490	7	N	N	N	N	100	N	10	<20	N	N	10	.05	2
I671510	5	N	N	N	N	150	N	10	N	N	N	15	.03	2
I671530	5	N	N	N	N	500	N	15	N	N	N	10	.11	2
I671550	7	N	N	N	N	<100	N	15	N	N	N	20	.05	2
I671570	<5	N	N	N	N	700	N	<10	N	N	N	10	.03	2
I671600	5	N	N	N	N	100	N	10	N	N	N	15	.07	2
I671620	7	N	N	N	N	150	N	15	N	N	N	15	.06	2
I671640	10	N	N	N	N	<100	N	15	N	N	N	15	.06	2
I671660	<5	N	N	N	N	100	N	<10	N	N	N	<10	.03	2
I671680	5	N	N	N	N	>5,000	N	10	N	N	N	10	.04	2
I671700	7	N	N	N	N	700	N	15	N	N	N	15	.07	2
I671720	7	N	N	N	N	300	N	10	N	N	N	15	.04	2
I671740	7	N	N	N	N	100	N	10	N	N	N	15	.06	2
I671760	5	N	N	N	N	300	N	N	N	N	N	<10	.03	2
I671780	7	N	N	N	N	1,000	N	<10	N	N	N	<10	.06	2
I671800	5	N	N	N	N	500	N	N	N	N	N	<10	.03	2
I671820	10	30	N	N	N	700	N	<10	1,000	N	N	15	.06	2
I671840	<5	N	N	N	N	2,000	N	N	N	N	N	10	.03	2
I671860	5	N	N	N	N	N	N	<10	N	N	N	15	.03	2
I671880	5	N	N	N	N	100	N	<10	N	N	N	10	.04	2
I671900	7	N	N	N	N	<100	N	10	N	N	N	10	.04	2
I671920	7	10	N	N	N	300	N	10	N	N	N	<10	.08	2
I671940	N	N	N	N	N	<100	N	N	N	N	N	N	.01	2
I671960	<5	N	N	N	N	500	N	<10	N	N	N	<10	.01	2
I671980	N	N	N	N	N	700	N	N	N	N	N	N	.02	2
I672000	5	N	N	N	N	<100	N	10	N	N	N	<10	.03	2
I672020	10	N	N	N	N	N	N	15	N	N	N	15	.04	2
I672040	7	N	N	N	N	N	N	10	70	N	N	10	.04	2
I672070	15	N	N	N	N	N	N	50	N	N	N	70	.04	2
I672090	15	N	N	N	N	N	N	30	N	N	N	50	.03	2
I672110	20	15	N	7	N	N	N	150	N	<10	N	70	.03	2
I672150	50	10	N	7	N	N	N	150	N	<10	N	50	.06	2
I672370	10	20	N	N	N	N	N	50	N	N	N	30	.02	10
I672390	5	150	N	N	N	<100	N	20	50	15	N	15	.01	10
I672410	<5	N	N	N	N	N	N	10	N	N	N	30	.01	10
I672430	<5	N	N	N	N	N	N	10	30	N	N	30	<.01	10
I672450	N	N	N	N	N	N	N	<10	N	N	N	<10	<.01	10
I672470	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I672500	N	N	N	N	N	N	N	N	<20	N	N	15	<.01	10
I672520	N	N	N	N	N	N	N	<10	N	N	N	15	<.01	10
I672540	<5	N	N	N	N	N	N	10	150	N	N	30	<.01	10
I672580	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I672600	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I672620	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672640	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672660	N	N	N	N	N	N	N	<10	N	N	N	20	.01	10
I672680	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I672700	N	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I672730	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672750	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672770	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I672790	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I672810	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672830	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672850	N	N	N	N	N	N	N	N	N	N	N	15	<.01	10
I672870	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I672890	37 20 52	88 51 34	<.05	<.05	<.02	N	N	.003	N	N	N	30
I672910	37 20 52	88 51 34	<.05	<.05	<.02	N	N	.003	N	N	N	50
I672930	37 20 52	88 51 34	<.05	<.05	<.02	N	N	<.002	N	N	N	30
I672950	37 20 52	88 51 34	<.05	<.05	<.02	N	N	.002	N	N	N	30
I672970	37 20 52	88 51 34	.05	.05	.02	N	N	<.002	N	N	N	15
I673000	37 20 52	88 51 34	<.05	<.05	<.02	N	N	.002	N	N	N	30
I673020	37 20 52	88 51 34	.07	.07	.03	N	N	.01	N	N	N	20
I673040	37 20 52	88 51 34	.15	.3	.03	N	N	.015	N	N	N	15
I673060	37 20 52	88 51 34	N	<.05	<.02	N	N	.002	N	N	N	70
I673080	37 20 52	88 51 34	N	<.05	<.02	N	N	.003	N	N	N	30
I673100	37 20 52	88 51 34	.15	.07	<.02	N	N	.003	N	N	N	50
I673120	37 20 52	88 51 34	.1	.05	<.02	N	N	.005	N	N	N	20
I673140	37 20 52	88 51 34	.1	.07	.05	N	N	.01	N	N	N	30
I673160	37 20 52	88 51 34	.3	.05	.07	N	N	.007	N	N	N	15
I673180	37 20 52	88 51 34	.3	.07	.2	N	N	.015	N	N	N	30
I673200	37 20 52	88 51 34	.1	<.05	.1	N	N	.007	N	N	N	20
I673220	37 20 52	88 51 34	.15	.07	.15	N	N	.01	N	N	N	15
I673240	37 20 52	88 51 34	.2	.07	.15	N	N	.01	N	N	N	20
I673260	37 20 52	88 51 34	.3	.07	.2	N	N	.015	N	N	N	50
I673280	37 20 52	88 51 34	.1	.15	.15	N	N	.02	N	N	N	30
I673300	37 20 52	88 51 34	.15	.2	.2	N	N	.02	N	N	N	15
I673320	37 20 52	88 51 34	.2	.2	.3	N	N	.03	N	N	N	30
I673340	37 20 52	88 51 34	.07	.1	.15	N	N	.02	N	N	N	20
I673360	37 20 52	88 51 34	.05	.15	.2	N	N	.02	N	N	N	20
I673380	37 20 52	88 51 34	.15	.2	.2	N	N	.02	N	N	N	20
I673410	37 20 52	88 51 34	.3	.5	.5	N	N	.05	N	N	N	30
I673430	37 20 52	88 51 34	.2	1	1	.2	N	.07	N	N	N	20
I673450	37 20 52	88 51 34	.3	.7	1	<.2	N	.07	N	N	N	30
I673470	37 20 52	88 51 34	.2	.2	.15	N	N	.02	N	N	N	50
I673490	37 20 52	88 51 34	.7	.3	.5	N	N	.03	N	N	N	50
I673510	37 20 52	88 51 34	.3	.2	.2	N	N	.02	N	N	N	30
I673530	37 20 52	88 51 34	.2	.5	.5	<.2	N	.05	N	N	N	20
I673550	37 20 52	88 51 34	.3	1.5	1	.3	N	.15	N	N	N	20
I673570	37 20 52	88 51 34	.15	1	1	.2	N	.1	N	N	N	30
I673600	37 20 52	88 51 34	.5	2	2	.2	N	.15	N	N	N	50
I673620	37 20 52	88 51 34	.3	1	1.5	.3	N	.1	N	N	N	20
I673640	37 20 52	88 51 34	.1	1.5	2	1	N	.15	N	N	N	20
I673660	37 20 52	88 51 34	.3	.7	1	.3	N	.1	N	N	N	20
I673680	37 20 52	88 51 34	.5	1	1.5	.7	N	.1	N	N	N	30
I673700	37 20 52	88 51 34	.05	1.5	1.5	.5	N	.2	N	N	N	50
I673720	37 20 52	88 51 34	.1	3	3	1.5	N	.3	N	N	N	50
I673740	37 20 52	88 51 34	.3	2	3	1.5	N	.2	N	N	N	15
I673760	37 20 52	88 51 34	.07	2	1.5	1.5	N	.3	N	N	N	20
I673790	37 20 52	88 51 34	.1	3	2	1.5	N	.3	N	N	N	30
I673810	37 20 52	88 51 34	.15	3	3	1.5	N	.3	N	N	N	30
I673830	37 20 52	88 51 34	.1	2	2	1.5	N	.2	N	N	N	20
I673850	37 20 52	88 51 34	.05	2	3	1	N	.3	N	N	N	30
I673870	37 20 52	88 51 34	.15	2	2	1	N	.2	N	N	N	20
I673890	37 20 52	88 51 34	.15	7	3	2	N	.5	N	N	N	50
I673910	37 20 52	88 51 34	.1	5	2	2	N	.3	N	N	N	30
I673930	37 20 52	88 51 34	.05	3	2	2	N	.3	N	N	N	20
I673950	37 20 52	88 51 34	.2	5	2	2	N	.5	N	N	N	70
I673970	37 20 52	88 51 34	<.05	5	.7	.2	N	.15	N	N	N	30
I673990	37 20 52	88 51 34	.3	.5	.15	N	N	.03	N	N	N	<10
I674010	37 20 52	88 51 34	.07	2	1	.7	N	.2	N	N	N	20
I674260	37 20 52	88 51 34	<.05	5	1.5	1	N	.2	N	N	N	30
I674280	37 20 52	88 51 34	.07	5	1	1	N	.3	N	N	N	30
I674300	37 20 52	88 51 34	.05	1.5	.5	.3	N	.1	N	N	N	15
I674320	37 20 52	88 51 34	.15	2	1	1	N	.2	N	N	N	50
I674340	37 20 52	88 51 34	.1	5	1	.7	N	.2	N	N	N	20

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I672890	N	N	N	N	N	N	<5	N	N	N	N	N	N
I672910	N	N	N	N	N	N	N	N	N	N	N	N	N
I672930	N	N	N	N	N	N	N	N	N	N	N	N	N
I672950	N	N	N	N	N	N	N	N	N	N	N	N	N
I672970	N	N	N	N	N	N	N	N	N	N	N	N	N
I673000	N	N	N	N	N	N	N	N	N	N	N	N	N
I673020	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673040	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I673060	N	N	N	N	N	N	N	N	N	N	N	N	N
I673080	N	N	N	N	N	N	N	N	N	N	N	N	N
I673100	N	N	N	N	N	N	N	N	N	N	N	N	N
I673120	N	N	N	N	N	N	N	N	N	N	N	N	N
I673140	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673160	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673180	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673200	N	N	N	N	N	N	N	N	N	N	N	N	N
I673220	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673240	N	N	N	N	N	N	N	N	N	N	N	N	N
I673260	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673280	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I673300	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I673320	20	N	N	N	N	N	<5	N	N	N	N	N	N
I673340	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673360	N	N	N	N	N	N	N	N	N	N	N	N	N
I673380	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673410	30	N	N	N	N	N	N	N	N	N	<10	N	N
I673430	30	N	N	N	N	<10	5	<5	N	N	<10	N	N
I673450	30	N	N	N	N	<10	5	<5	N	N	<10	N	N
I673470	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I673490	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I673510	<20	N	N	N	N	N	N	N	N	N	N	N	N
I673530	20	N	N	N	N	<10	<5	<5	N	N	N	N	N
I673550	70	N	N	N	N	15	7	10	N	N	10	N	N
I673570	50	N	N	N	N	10	5	7	N	N	<10	N	N
I673600	100	N	N	N	<10	20	10	20	N	N	15	N	N
I673620	70	N	N	N	N	10	7	7	N	N	10	N	N
I673640	150	N	N	N	N	20	20	20	N	N	15	N	N
I673660	70	N	N	N	N	<10	5	5	N	N	10	N	N
I673680	100	N	N	N	50	20	10	30	N	N	15	N	<20
I673700	100	<1	N	N	N	30	15	30	N	N	15	N	N
I673720	300	<1	N	N	10	70	15	50	N	N	15	N	<20
I673740	200	N	N	N	<10	30	10	30	N	N	15	N	N
I673760	300	N	N	N	N	20	7	20	N	N	10	N	<20
I673790	300	<1	N	N	<10	50	5	30	N	N	15	N	<20
I673810	500	<1	N	N	10	50	15	50	N	N	20	N	<20
I673830	300	N	N	N	10	30	5	30	N	N	15	N	N
I673850	200	<1	N	N	10	30	20	50	N	N	30	N	<20
I673870	200	N	N	N	10	20	7	20	N	N	30	N	N
I673890	500	<1	N	N	15	50	<5	70	N	N	70	N	<20
I673910	500	<1	N	N	15	50	30	50	N	N	70	N	<20
I673930	500	<1	N	N	15	30	7	50	N	N	50	N	N
I673950	300	<1	N	N	15	70	30	70	N	N	30	N	<20
I673970	200	N	N	N	N	10	20	10	N	N	<10	N	<20
I673990	30	N	N	N	N	N	N	N	N	N	N	N	N
I674010	300	N	N	N	N	15	10	20	N	N	30	<5	<20
I674260	200	1	N	N	<10	20	30	50	N	N	70	5	<20
I674280	200	<1	N	N	<10	15	20	30	N	N	50	<5	<20
I674300	50	N	N	N	N	<10	7	70	N	N	20	N	N
I674320	500	<1	N	N	<10	15	10	30	N	N	70	<5	<20
I674340	150	<1	N	N	<10	15	15	30	N	N	100	<5	<20

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I672890	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672910	N	N	N	N	N	N	N	N	N	N	N	20	<.01	10
I672930	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I672950	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I672970	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673000	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673020	<5	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673040	5	N	N	N	N	N	N	<10	N	N	N	<10	.05	10
I673060	N	N	N	N	N	N	N	N	N	N	N	10	<.01	10
I673080	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I673100	N	N	N	N	N	N	N	N	N	N	N	30	.03	10
I673120	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I673140	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I673160	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673180	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I673200	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673220	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673240	N	N	N	N	N	N	N	N	N	N	N	N	<.01	10
I673260	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	10
I673280	N	N	N	N	N	N	N	<10	N	N	N	10	<.01	10
I673300	N	N	N	N	N	N	N	<10	N	N	N	N	.01	10
I673320	<5	N	N	N	N	N	N	<10	N	N	N	15	.01	10
I673340	N	N	N	N	N	N	N	N	N	N	N	20	<.01	10
I673360	N	N	N	N	N	N	N	N	N	N	N	15	.01	10
I673380	N	N	N	N	N	N	N	N	N	N	N	<10	.01	10
I673410	5	N	N	N	N	N	N	<10	N	N	N	20	.02	10
I673430	5	N	N	N	N	N	N	15	N	N	N	20	.05	10
I673450	<5	N	N	N	N	N	N	15	N	N	N	15	.05	10
I673470	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	10
I673490	N	N	N	N	N	N	N	10	N	N	N	10	.02	10
I673510	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	10
I673530	<5	N	N	N	N	N	N	10	N	N	N	20	.04	10
I673550	5	N	N	N	N	N	N	20	N	N	N	30	.05	10
I673570	5	N	N	N	N	N	N	20	N	N	N	50	.05	10
I673600	10	N	N	<5	N	N	N	30	N	N	N	50	.08	10
I673620	5	<10	N	N	N	N	N	20	N	N	N	30	.05	10
I673640	7	<10	N	<5	N	N	N	30	N	N	N	50	.05	10
I673660	5	N	N	N	N	N	N	15	N	N	N	20	.03	10
I673680	7	<10	N	N	N	N	N	20	500	N	N	20	.03	10
I673700	10	N	N	<5	N	N	N	30	N	N	N	30	.06	15
I673720	10	20	N	5	N	N	N	50	N	<10	N	70	.06	15
I673740	7	<10	N	<5	N	N	N	20	N	N	N	50	.06	15
I673760	10	N	N	<5	N	N	N	20	N	N	N	150	.04	15
I673790	15	N	N	<5	N	N	N	30	N	N	N	100	.07	15
I673810	15	<10	N	5	N	N	N	50	N	N	N	70	.07	15
I673830	10	N	N	<5	N	N	N	30	N	N	N	50	.07	15
I673850	10	50	N	5	N	N	N	50	N	<10	N	50	.1	15
I673870	7	N	N	<5	N	N	N	20	N	N	N	50	.08	15
I673890	20	<10	N	5	N	N	N	50	N	<10	N	100	.04	15
I673910	20	15	N	5	N	N	N	50	N	<10	N	100	.05	15
I673930	20	<10	N	<5	N	N	N	30	N	<10	N	70	.05	15
I673950	50	100	N	<5	N	100	N	70	N	<10	N	70	.08	15
I673970	15	<10	N	N	N	N	N	20	N	N	N	20	.02	15
I673990	N	10	N	N	N	N	N	<10	N	N	N	<10	<.01	15
I674010	5	N	N	N	N	N	N	50	N	N	N	30	.06	15
I674260	10	<10	N	5	N	N	N	50	N	<10	N	50	.07	22
I674280	10	<10	N	<5	N	N	N	70	N	<10	N	50	.07	25
I674300	7	N	N	N	N	N	N	15	N	N	N	20	.04	25
I674320	7	<10	N	<5	N	N	N	30	N	<10	N	50	.07	25
I674340	10	15	N	<5	N	N	N	30	N	N	200	70	.31	25

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I674360	37 20 52	88 51 34	.07	2	1	.5	N	.15	N	N	N	20
I674380	37 20 52	88 51 34	.15	1.5	.7	.3	N	.1	N	N	N	30
I674400	37 20 52	88 51 34	.2	.7	.5	<.2	N	.05	N	N	N	15
I674420	37 20 52	88 51 34	.15	2	1	.5	N	.15	N	N	N	15
I674440	37 20 52	88 51 34	.03	1.5	1	.3	N	.1	N	N	N	50
I674460	37 20 52	88 51 34	.1	2	1	.7	N	.15	N	N	N	30
I674480	37 20 52	88 51 34	.15	.5	.2	N	N	.03	N	N	N	10
I674500	37 20 52	88 51 34	.5	.7	.7	<.2	N	.05	N	N	N	15
I674520	37 20 52	88 51 34	.5	.7	.3	N	N	.05	N	N	N	10
I674540	37 20 52	88 51 34	.3	1.5	.7	.2	N	.1	N	N	N	20
I674560	37 20 52	88 51 34	.7	1	.7	<.2	N	.1	N	N	N	15
I674580	37 20 52	88 51 34	.05	5	1.5	1	N	.3	N	N	N	50
I674600	37 20 52	88 51 34	.07	2	1	1	N	.3	<.5	N	N	30
I674620	37 20 52	88 51 34	.7	.7	.5	<.2	N	.03	N	N	N	10
I674640	37 20 52	88 51 34	.5	.2	.2	N	N	.02	N	N	N	<10
I674660	37 20 52	88 51 34	.1	.7	.3	<.2	N	.05	N	N	N	10
I674680	37 20 52	88 51 34	.2	1	.5	.3	N	.1	N	N	N	10
I674700	37 20 52	88 51 34	.2	1	.5	.2	N	.1	N	N	N	<10
I674720	37 20 52	88 51 34	.15	2	1	.7	N	.2	N	N	N	30
I674740	37 20 52	88 51 34	.1	3	1.5	.7	N	.3	N	N	N	70
I674760	37 20 52	88 51 34	.05	3	1	1	N	.3	N	N	N	70
I674780	37 20 52	88 51 34	.07	.2	.7	1	N	.3	N	N	N	20
I674800	37 20 52	88 51 34	.15	2	2	.7	N	.3	N	N	N	70
I674820	37 20 52	88 51 34	.05	1.5	1.5	.5	N	.1	N	N	N	30
I674840	37 20 52	88 51 34	.2	2	2	.7	N	.3	N	N	N	50
I674860	37 20 52	88 51 34	.7	1	.5	N	N	.05	N	N	N	10
I674880	37 20 52	88 51 34	.15	.7	.3	<.2	N	.05	N	N	N	15
I674900	37 20 52	88 51 34	.2	3	1.5	.7	N	.3	N	N	N	30
I674920	37 20 52	88 51 34	1.5	3	1.5	1	N	.3	N	N	N	50
I674940	37 20 52	88 51 34	.3	2	2	.5	N	.15	N	N	N	30
I674960	37 20 52	88 51 34	.2	3	3	.7	N	.3	N	N	N	100
I674980	37 20 52	88 51 34	.7	3	3	.7	N	.3	N	N	N	70
I675000	37 20 52	88 51 34	2	2	2	.7	N	.2	N	N	N	50
I675020	37 20 52	88 51 34	7	1.5	1.5	.5	N	.1	N	N	N	30
I675040	37 20 52	88 51 34	10	1.5	1.5	.3	N	.1	N	N	N	20
I675060	37 20 52	88 51 34	20	1	1.5	.2	N	.07	N	N	N	30
I675080	37 20 52	88 51 34	10	2	2	.7	N	.15	N	N	N	50
I675100	37 20 52	88 51 34	15	1	1.5	.5	N	.1	N	N	N	70
I675130	37 20 52	88 51 34	3	3	3	1	N	.2	N	N	N	50
I675150	37 20 52	88 51 34	.5	2	5	.5	N	.15	N	N	N	50
I675170	37 20 52	88 51 34	1.5	3	5	.7	N	.5	N	N	N	20
I675190	37 20 52	88 51 34	1	2	5	.5	N	.2	N	N	N	10
I675210	37 20 52	88 51 34	1.5	1.5	5	.3	N	.15	N	N	N	15
I675230	37 20 52	88 51 34	.7	2	5	.7	N	.3	N	N	N	30
I675250	37 20 52	88 51 34	.1	1.5	3	.5	N	.2	N	N	N	30
I675270	37 20 52	88 51 34	.15	1.5	2	.3	N	.15	N	N	N	30
I675290	37 20 52	88 51 34	.7	2	3	.7	N	.2	N	N	N	50
I675310	37 20 52	88 51 34	1.5	1.5	3	.2	N	.15	N	N	N	30
I675340	37 20 52	88 51 34	.7	2	2	.3	N	.2	N	N	N	50
I675360	37 20 52	88 51 34	.15	3	2	.7	N	.2	N	N	N	50
I675380	37 20 52	88 51 34	.1	3	1	.5	N	.3	N	N	N	70
I675400	37 20 52	88 51 34	5	2	5	.5	N	.15	N	N	N	20
I675420	37 20 52	88 51 34	.5	3	3	.5	N	2	.5	N	N	30
I675440	37 20 52	88 51 34	.3	2	3	.5	N	2	N	N	N	50
I675460	37 20 52	88 51 34	.7	2	3	.3	N	.15	N	N	N	50
I675480	37 20 52	88 51 34	.15	5	3	.3	N	.2	N	N	N	50
I675510	37 20 52	88 51 34	.07	3	2	.5	N	.3	N	N	N	70
I675530	37 20 52	88 51 34	N	.7	.3	N	N	.07	N	N	N	15
I675550	37 20 52	88 51 34	N	.3	.05	N	N	.015	N	N	N	N
I675570	37 20 52	88 51 34	N	.2	.02	N	N	.01	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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
I674360	70	<1	N	N	N	20	10	50	N	N	30	N	<20
I674380	70	N	N	N	N	<10	5	7	N	N	15	N	N
I674400	20	N	N	N	N	N	<5	<5	N	N	<10	N	N
I674420	100	N	N	N	N	15	10	15	N	N	20	N	N
I674440	100	N	N	N	N	<10	5	10	N	N	20	<5	<20
I674460	150	<1	N	N	<10	15	15	20	N	N	50	<5	N
I674480	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I674500	30	N	N	N	N	N	<5	N	N	N	10	N	N
I674520	20	N	N	N	N	N	5	N	N	N	<10	<5	N
I674540	50	N	N	N	N	<10	7	5	N	N	30	N	N
I674560	70	N	N	N	N	<10	5	<5	N	N	20	N	N
I674580	150	<1	N	N	<10	50	20	30	N	N	50	N	N
I674600	100	N	N	N	<10	20	15	30	N	N	30	N	<20
I674620	30	N	N	N	N	N	5	N	N	N	20	N	N
I674640	<20	N	N	N	N	N	N	N	N	N	N	N	N
I674660	30	N	N	N	N	N	5	N	N	N	<10	N	N
I674680	50	N	N	N	N	<10	7	<5	N	N	30	N	N
I674700	70	N	N	N	N	10	20	7	N	N	15	N	N
I674720	150	N	N	N	<10	15	20	20	N	N	30	N	N
I674740	200	<1	N	N	10	30	20	30	N	N	70	<5	<20
I674760	200	<1	N	N	<10	50	20	50	N	N	50	<5	N
I674780	200	N	N	N	<10	70	20	50	N	N	20	<5	N
I674800	1,000	<1	N	N	10	100	30	50	N	N	30	5	N
I674820	100	N	N	N	<10	50	15	50	N	N	<10	<5	N
I674840	200	N	N	N	10	100	15	100	N	N	15	N	N
I674860	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I674880	30	N	N	N	N	N	5	N	N	N	<10	N	N
I674900	300	<1	N	N	10	50	30	50	N	N	30	5	N
I674920	300	<1	N	N	10	30	20	30	N	N	30	N	N
I674940	150	N	N	N	10	70	20	50	N	N	20	N	N
I674960	200	<1	N	N	15	100	30	100	N	N	70	N	<20
I674980	150	<1	N	N	15	150	30	100	N	N	50	<5	N
I675000	3,000	<1	N	N	10	70	30	50	N	N	30	5	N
I675020	2,000	N	N	N	<10	20	15	20	N	N	50	<5	N
I675040	5,000	N	N	N	<10	20	10	15	N	N	15	N	N
I675060	1,500	N	N	N	N	15	7	10	N	N	10	N	N
I675080	2,000	N	N	N	10	50	15	30	N	N	30	N	N
I675100	500	N	N	N	N	10	10	15	N	N	20	N	N
I675130	3,000	N	N	N	10	50	50	50	N	N	50	5	N
I675150	1,500	N	N	N	10	30	20	20	N	N	30	5	N
I675170	2,000	N	N	N	15	70	20	30	N	N	20	<5	N
I675190	2,000	N	N	N	<10	30	15	20	N	N	15	5	N
I675210	1,000	N	N	N	N	20	15	20	N	N	15	N	N
I675230	2,000	N	N	N	<10	50	20	50	N	N	30	<5	<20
I675250	300	N	N	N	<10	70	15	50	N	N	15	5	N
I675270	300	N	N	N	N	15	<5	15	N	N	10	N	N
I675290	500	N	N	N	<10	70	7	50	N	N	30	N	N
I675310	300	N	N	N	N	20	5	15	N	N	20	N	N
I675340	200	N	N	N	<10	50	30	30	N	N	20	7	N
I675360	200	N	N	N	10	100	20	50	N	N	15	<5	N
I675380	200	N	N	N	10	70	30	70	N	N	15	5	N
I675400	200	N	N	N	<10	50	20	30	N	N	50	<5	N
I675420	300	N	N	N	10	50	50	50	N	N	50	5	N
I675440	200	N	N	N	<10	30	20	30	N	N	20	<5	N
I675460	150	N	N	N	<10	30	10	30	N	N	20	N	N
I675480	200	N	N	N	10	70	20	50	N	N	30	<5	N
I675510	200	<1	N	N	10	100	30	100	N	N	10	5	<20
I675530	20	N	N	N	N	N	5	N	N	N	<10	N	N
I675550	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I675570	<20	N	N	N	N	N	<5	N	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I674360	7	15	N	<5	N	N	N	30	N	N	N	30	.11	26
I674380	<5	N	N	N	N	200	N	20	N	N	N	20	.09	26
I674400	N	N	N	N	N	N	N	<10	N	N	N	10	.08	26
I674420	7	10	N	<5	N	N	N	20	N	N	N	20	.16	26
I674440	5	10	N	<5	N	100	N	20	N	N	N	20	.24	26
I674460	7	10	N	<5	N	N	N	30	N	N	<200	30	.21	26
I674480	N	N	N	N	N	N	N	<10	N	N	N	<10	.02	26
I674500	<5	N	N	N	N	N	N	10	N	N	N	10	.05	26
I674520	5	N	N	N	N	<100	N	10	N	N	N	10	.12	26
I674540	5	<10	N	N	N	N	N	15	N	N	N	20	.12	26
I674560	5	N	N	N	N	100	N	15	N	N	N	20	.28	26
I674580	10	10	N	<5	N	N	N	30	N	N	N	20	.2	26
I674600	7	10	N	<5	N	N	N	50	N	N	N	30	.17	26
I674620	<5	N	N	N	N	150	N	<10	N	N	N	<10	.11	26
I674640	N	N	N	N	N	<100	N	N	N	N	N	N	.03	26
I674660	<5	N	N	N	N	100	N	<10	N	N	N	15	.07	26
I674680	5	10	N	N	N	N	N	15	N	N	N	15	.19	26
I674700	5	150	N	N	N	N	N	15	N	N	N	20	.33	26
I674720	7	20	N	<5	N	<100	N	20	N	N	N	30	.29	26
I674740	15	10	N	5	N	<100	N	50	N	N	N	50	.24	26
I674760	10	15	N	<5	N	N	N	50	N	N	N	50	.21	26
I674780	10	10	N	<5	N	N	N	70	N	N	200	50	.16	26
I674800	15	15	N	<5	N	N	N	100	N	N	N	70	.19	26
I674820	7	<10	N	N	N	N	N	30	N	N	N	15	.33	26
I674840	15	<10	N	<5	N	N	N	70	N	N	N	30	.27	26
I674860	5	N	N	N	N	N	N	10	N	N	N	15	.45	26
I674880	<5	15	N	N	N	N	N	10	N	N	N	10	.45	26
I674900	15	15	N	<5	N	N	N	50	N	<10	300	50	.37	26
I674920	10	<10	N	<5	N	1,500	N	50	N	<10	N	50	.35	26
I674940	10	10	N	<5	N	N	N	30	N	N	N	20	.27	30
I674960	15	10	N	5	N	N	N	70	N	N	N	30	.27	30
I674980	20	10	N	5	N	N	N	70	N	N	N	30	.27	30
I675000	15	10	N	5	N	>5,000	N	70	N	N	N	50	.41	30
I675020	7	10	N	N	N	>5,000	N	30	N	N	N	20	.49	30
I675040	7	<10	N	N	N	>5,000	N	20	N	N	N	15	.25	30
I675060	5	<10	N	N	N	>5,000	N	15	N	N	N	15	.19	30
I675080	10	10	N	<5	N	>5,000	N	30	N	<10	N	30	.23	30
I675100	5	<10	N	N	N	5,000	N	15	N	N	N	20	.17	30
I675130	15	700	N	<5	N	>5,000	N	30	50	<10	N	50	.85	30
I675150	10	<10	N	<5	N	>5,000	N	50	N	N	<200	30	.77	30
I675170	15	10	N	<5	N	>5,000	N	50	30	N	N	150	.77	30
I675190	10	15	N	N	N	1,500	N	30	N	N	N	70	1.1	30
I675210	7	<10	N	N	N	300	N	30	N	N	N	70	2.4	30
I675230	15	10	N	<5	N	100	N	50	<20	N	N	100	.93	30
I675250	10	<10	N	<5	N	N	N	50	N	N	N	70	.37	31
I675270	7	N	N	N	N	N	N	20	N	N	N	70	.19	31
I675290	10	<10	N	<5	N	N	N	30	N	N	N	150	.19	31
I675310	5	N	N	N	N	N	N	20	N	N	N	70	.11	31
I675340	10	20	N	<5	N	N	N	50	N	N	N	100	.14	31
I675360	10	10	N	<5	N	N	N	30	N	N	N	50	.14	31
I675380	10	15	N	<5	N	N	N	50	N	N	N	70	.14	31
I675400	10	15	N	<5	N	<100	N	30	N	N	N	30	.11	31
I675420	15	100	N	<5	N	<100	N	30	N	N	N	50	.1	31
I675440	10	10	N	<5	N	<100	N	30	N	N	N	70	.09	31
I675460	10	<10	N	<5	N	N	N	20	N	N	N	50	.08	31
I675480	15	10	N	<5	N	N	N	30	N	N	N	70	.09	31
I675510	10	15	N	<5	N	N	N	50	N	N	N	70	.1	31
I675530	<5	N	N	N	N	N	N	10	N	N	N	30	.03	32
I675550	N	N	N	N	N	N	N	N	100	N	N	70	.01	32
I675570	N	N	N	N	N	N	N	N	500	N	N	20	<.01	32

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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
1675590	37 20 52	88 51 34	N	.2	.02	N	N	.01	N	N	N	N
1675610	37 20 52	88 51 34	.05	.7	.2	N	N	.05	N	N	N	10
1675630	37 20 52	88 51 34	.5	.5	1	N	N	.03	N	N	N	<10
1675650	37 20 52	88 51 34	1.5	.7	.7	N	N	.05	N	N	N	10
1675670	37 20 52	88 51 34	.07	1	.5	N	N	.1	N	N	N	15
1675690	37 20 52	88 51 34	.2	1	.5	N	N	.07	N	N	N	10
1675710	37 20 52	88 51 34	N	1	.15	N	N	.05	N	N	N	<10
1675730	37 20 52	88 51 34	.5	.5	1	N	N	.02	N	N	N	N
1675750	37 20 52	88 51 34	.05	2	1.5	<.2	N	.2	N	N	N	50
1675770	37 20 52	88 51 34	.07	1.5	1.5	N	N	.15	N	N	N	30
1675790	37 20 52	88 51 34	.1	1	1.5	<.2	N	.15	N	N	N	15
1675810	37 20 52	88 51 34	.15	1.5	2	.2	N	.2	N	N	N	50
1675830	37 20 52	88 51 34	.07	2	2	.2	N	.2	<.5	N	N	30
1675850	37 20 52	88 51 34	<.05	1.5	2	<.2	N	.2	N	N	N	50
1675870	37 20 52	88 51 34	.05	1	1	N	N	.1	N	N	N	30
1675890	37 20 52	88 51 34	.15	1	1.5	<.2	N	.15	N	N	N	50
1675910	37 20 52	88 51 34	.07	1	1	<.2	N	.1	N	N	N	15
1675930	37 20 52	88 51 34	<.05	.7	.7	N	N	.07	N	N	N	10
1675950	37 20 52	88 51 34	<.05	.7	.5	N	N	.07	N	N	N	<10
1675970	37 20 52	88 51 34	N	.5	.5	N	N	.07	N	N	N	<10
1675990	37 20 52	88 51 34	.15	1	1	N	N	.07	N	N	N	10
1676020	37 20 52	88 51 34	.5	1.5	1	<.2	N	.1	N	N	N	20
1676140	37 20 52	88 51 34	.15	1.5	1.5	.5	N	.15	N	N	N	15
1676170	37 20 52	88 51 34	<.05	1.5	1	<.2	N	.1	N	N	N	10
1676190	37 20 52	88 51 34	.2	2	1.5	.2	N	.15	N	N	N	10
1676210	37 20 52	88 51 34	.2	2	1	<.2	N	.15	N	N	N	10
1676230	37 20 52	88 51 34	.07	1	.2	N	N	.05	N	N	N	<10
1676250	37 20 52	88 51 34	N	.7	.3	N	N	.05	N	N	N	<10
1676270	37 20 52	88 51 34	.1	1.5	.3	N	N	.07	N	N	N	10
1676290	37 20 52	88 51 34	.15	1.5	1	.2	N	.1	N	N	N	<10
1676310	37 20 52	88 51 34	1.5	2	.7	<.2	N	.15	N	N	N	10
1676330	37 20 52	88 51 34	N	1	.3	<.2	N	.07	N	N	N	10
1676350	37 20 52	88 51 34	N	.3	.07	N	N	.02	N	N	N	<10
1676370	37 20 52	88 51 34	N	5	.1	N	N	.03	N	N	N	<10
1676390	37 20 52	88 51 34	.05	3	.3	N	N	.07	N	N	N	15
1676420	37 20 52	88 51 34	7	1.5	7	<.2	N	.02	N	N	N	<10
1676440	37 20 52	88 51 34	.07	2	.15	.2	N	.02	N	N	N	10
1676460	37 20 52	88 51 34	.3	5	1.5	2	N	.05	N	N	N	<10
1676480	37 20 52	88 51 34	.1	3	1.5	1.5	N	.03	N	N	N	<10
1676500	37 20 52	88 51 34	N	2	.5	.7	N	.07	N	N	N	<10
1676520	37 20 52	88 51 34	.05	5	.2	.7	N	.05	N	N	N	<10
1676540	37 20 52	88 51 34	<.05	10	.15	.5	N	.02	N	N	N	<10
1676560	37 20 52	88 51 34	N	7	.2	.7	N	.03	N	N	N	<10
1676580	37 20 52	88 51 34	1.5	5	.3	N	N	.02	N	N	N	<10
1676600	37 20 52	88 51 34	1	5	.1	N	N	.03	N	N	N	<10
1676620	37 20 52	88 51 34	<.05	1	.3	.3	N	.07	N	N	N	10
1676640	37 20 52	88 51 34	N	1	.5	.2	N	.1	N	N	N	10
1676700	37 20 52	88 51 34	1	5	2	<.2	N	.2	N	N	N	20
1676720	37 20 52	88 51 34	10	2	10	<.2	N	.05	N	N	N	10
1676740	37 20 52	88 51 34	.2	2	1	<.2	N	.15	N	N	N	15
1676760	37 20 52	88 51 34	2	3	.5	N	N	.07	N	N	N	10
1676780	37 20 52	88 51 34	15	.7	10	<.2	N	.03	N	N	N	<10
1676800	37 20 52	88 51 34	1	2	1.5	N	N	.1	N	N	N	10
1676820	37 20 52	88 51 34	.7	1.5	.3	N	N	.07	N	N	N	<10
1676840	37 20 52	88 51 34	<.05	1	.7	<.2	N	.1	N	N	N	10
1676860	37 20 52	88 51 34	1.5	2	1.5	N	N	.07	N	N	N	15
1676880	37 20 52	88 51 34	.5	1	1	N	N	.07	N	N	N	10
1676900	37 20 52	88 51 34	.2	3	.5	.2	N	.07	N	N	N	<10
1676920	37 20 52	88 51 34	.1	2	.5	N	N	.07	N	N	N	10
1676940	37 20 52	88 51 34	.15	1	.2	N	N	.05	N	N	N	15

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I675590	N	N	N	N	N	N	<5	N	N	N	N	N	N
I675610	30	N	N	N	N	<10	10	N	N	N	<10	N	N
I675630	<20	N	N	N	<10	N	7	N	N	N	N	N	N
I675650	50	N	N	N	N	<10	10	N	N	N	10	N	N
I675670	70	N	N	N	N	10	15	5	N	N	N	N	N
I675690	30	N	N	N	<10	15	1,500	N	N	N	10	7	<20
I675710	30	N	N	N	10	10	500	N	N	N	30	7	<20
I675730	20	N	N	N	N	<10	70	N	N	N	N	N	N
I675750	1,000	N	N	N	10	50	30	20	N	N	20	5	N
I675770	300	N	N	N	<10	20	20	10	N	N	15	10	N
I675790	700	N	N	N	<10	30	15	20	N	N	10	7	N
I675810	500	N	N	N	<10	50	20	30	N	N	15	5	N
I675830	300	N	N	N	10	70	30	50	N	N	15	<5	N
I675850	500	N	N	N	<10	50	15	30	N	N	15	<5	N
I675870	300	N	N	N	N	10	20	5	N	N	10	7	N
I675890	500	N	N	N	<10	20	15	15	N	N	10	5	N
I675910	1,500	N	N	N	N	15	150	7	N	N	15	<5	N
I675930	1,000	N	N	N	N	10	10	5	N	N	10	<5	N
I675950	700	N	N	N	N	<10	10	5	N	N	10	<5	N
I675970	1,000	N	N	N	N	<10	7	<5	N	N	<10	<5	N
I675990	700	N	N	N	N	10	7	5	N	N	10	5	N
I676020	1,000	N	N	N	<10	15	15	7	N	N	15	7	N
I676140	300	N	N	N	N	15	10	50	N	N	10	N	<20
I676170	100	N	N	N	N	20	15	10	N	N	<10	N	N
I676190	150	N	N	N	<10	30	20	20	N	N	10	50	N
I676210	100	N	N	N	<10	20	15	7	N	N	10	10	N
I676230	100	N	N	N	N	<10	10	5	N	N	<10	5	N
I676250	50	N	N	N	N	<10	10	<5	N	N	<10	7	N
I676270	100	N	N	N	N	<10	10	<5	N	N	<10	<5	N
I676290	70	N	N	N	<10	20	15	15	N	N	10	7	N
I676310	200	N	N	N	N	15	20	5	N	N	15	5	N
I676330	70	N	N	N	N	<10	10	7	N	N	<10	N	N
I676350	30	N	N	N	N	N	<5	N	N	N	N	N	N
I676370	50	N	N	N	N	N	15	<5	N	N	10	<5	N
I676390	300	N	N	N	N	<10	20	<5	N	N	30	7	N
I676420	50	N	N	N	N	N	7	5	N	N	150	N	N
I676440	100	N	N	N	5,000	70	10	7	N	N	200	N	<20
I676460	1,000	<1	N	N	20	<10	100	150	N	N	100	N	20
I676480	700	<1	N	N	N	30	10	200	N	N	150	N	20
I676500	500	N	N	N	N	N	200	30	N	N	70	N	N
I676520	1,000	N	N	N	N	N	30	20	N	N	100	7	<20
I676540	300	N	N	N	20	N	30	15	N	N	15	7	N
I676560	500	N	N	N	15	N	15	50	N	N	20	<5	<20
I676580	70	N	N	N	N	N	30	<5	N	N	<10	7	N
I676600	300	N	N	N	N	N	30	<5	N	N	<10	5	N
I676620	700	N	N	N	N	<10	7	20	N	N	10	N	N
I676640	500	N	N	N	N	15	5	20	N	N	N	<5	N
I676700	300	N	N	N	<10	50	20	30	N	N	50	15	N
I676720	200	N	N	N	N	<10	5	5	N	N	100	5	N
I676740	500	N	N	N	N	20	10	20	N	N	10	5	N
I676760	150	N	N	N	N	<10	50	5	N	N	<10	5	N
I676780	70	N	N	N	N	<10	<5	<5	N	N	30	N	N
I676800	500	N	N	N	<10	30	30	7	N	N	30	10	N
I676820	5,000	N	N	N	N	10	50	<5	N	N	20	20	N
I676840	1,500	N	N	N	N	10	7	15	N	N	10	<5	N
I676860	700	N	N	N	N	<10	15	<5	N	N	15	5	N
I676880	200	N	N	N	N	<10	10	7	N	N	N	<5	N
I676900	1,500	N	N	N	N	<10	20	10	N	N	<10	10	N
I676920	5,000	N	N	N	<10	<10	20	5	N	N	15	7	N
I676940	2,000	N	N	N	N	N	15	<5	N	N	<10	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I675590	N	N	N	N	N	N	N	N	30	N	N	20	.02	32
I675610	<5	N	N	N	N	<100	N	15	N	N	N	50	.02	43
I675630	10	20	N	N	N	<100	N	<10	20	N	N	50	.08	43
I675650	5	N	N	N	N	100	N	10	100	N	<200	20	.04	43
I675670	7	150	N	N	N	N	N	15	50	N	N	30	.04	43
I675690	10	200	N	N	N	100	N	30	500	N	200	70	.06	43
I675710	15	15	N	N	N	N	N	20	700	N	<200	70	.04	43
I675730	<5	20	N	N	N	N	N	<10	50	N	N	50	.04	43
I675750	15	300	N	N	N	N	N	50	<20	N	N	100	.11	43
I675770	10	<10	N	N	N	N	N	30	<20	N	N	150	.1	43
I675790	7	10	N	N	N	>5,000	N	30	N	N	N	30	.14	43
I675810	10	10	N	<5	N	2,000	N	30	<20	N	N	100	.2	43
I675830	10	<10	N	<5	N	1,500	N	50	N	N	N	70	.13	43
I675850	10	10	N	<5	N	3,000	N	50	N	N	N	50	.17	43
I675870	7	<10	N	N	N	>5,000	N	20	N	N	N	50	.12	43
I675890	7	<10	N	N	N	>5,000	N	30	<20	N	N	70	.17	43
I675910	7	10	N	N	N	>5,000	N	20	20	N	N	100	.07	43
I675930	5	<10	N	N	N	>5,000	N	10	N	N	N	100	.08	44
I675950	5	30	N	N	N	>5,000	N	10	50	N	N	50	.07	44
I675970	5	N	N	N	N	>5,000	N	<10	20	N	N	70	.09	44
I675990	7	15	N	N	N	>5,000	N	15	N	N	N	30	.42	44
I676020	10	15	N	N	N	>5,000	N	30	30	N	N	50	.61	44
I676140	5	10	N	N	N	150	N	20	N	10	N	70	.18	44
I676170	7	<10	N	N	N	<100	N	20	<20	N	N	20	.07	44
I676190	10	150	N	N	N	500	N	20	100	N	N	20	.1	44
I676210	15	200	N	N	N	100	N	15	150	N	N	70	.07	44
I676230	5	N	N	N	N	<100	N	10	50	N	<200	30	.05	44
I676250	5	100	N	N	N	N	N	10	100	N	200	30	.05	44
I676270	7	15	N	N	N	<100	N	<10	<20	N	200	30	.04	44
I676290	7	15	N	N	N	N	N	15	30	N	<200	20	.05	44
I676310	10	150	N	N	N	150	N	15	150	N	<200	30	.1	44
I676330	5	<10	N	N	N	N	N	<10	30	N	N	20	.04	44
I676350	<5	N	N	N	N	N	N	N	N	N	N	10	.02	44
I676370	5	15	N	N	N	100	N	N	50	N	N	20	.03	44
I676390	7	10	N	N	N	3,000	N	10	30	N	N	50	.05	44
I676420	5	15	N	N	N	100	N	N	N	N	N	30	.03	44
I676440	15	150	N	N	N	<100	N	N	200	N	N	100	.03	44
I676460	7	1,000	N	<5	N	N	N	N	150	N	<200	50	.03	44
I676480	<5	200	N	<5	N	N	N	N	N	N	<200	15	.02	44
I676500	N	<10	N	N	N	N	N	N	N	N	N	100	.05	44
I676520	7	50	N	N	N	5,000	N	N	50	N	N	70	.03	44
I676540	10	300	N	N	N	500	N	N	70	N	<200	30	.05	44
I676560	5	150	N	N	N	<100	N	N	100	N	N	15	.03	44
I676580	5	200	N	N	N	200	N	N	<20	N	<200	20	.02	44
I676600	7	30	N	N	<10	500	N	N	N	N	N	70	.02	44
I676620	5	10	N	N	N	<100	N	<10	N	N	N	100	.05	44
I676640	5	10	N	N	N	N	N	15	N	N	N	70	.05	44
I676700	50	15	N	N	N	N	N	30	<20	N	N	50	.07	44
I676720	5	100	N	N	N	1,500	N	<10	N	N	N	20	.03	44
I676740	15	<10	N	N	N	<100	N	30	N	N	N	150	.05	44
I676760	5	30	N	N	N	1,000	N	<10	20	N	200	30	.11	44
I676780	<5	<10	N	N	N	200	N	N	N	N	N	20	.12	44
I676800	20	30	N	N	N	3,000	N	15	N	N	500	70	.09	44
I676820	7	20	N	N	N	>5,000	N	<10	100	N	500	70	.03	44
I676840	7	5	N	N	N	1,000	N	10	N	N	N	70	.03	44
I676860	10	30	N	N	N	>5,000	N	10	20	N	N	70	.05	44
I676880	5	15	N	N	N	700	N	15	N	N	N	30	.05	44
I676900	7	70	N	N	N	300	N	<10	<20	N	N	20	.08	44
I676920	7	50	N	N	N	>5,000	N	10	20	N	N	20	.03	44
I676940	5	<10	N	N	N	>5,000	N	<10	<20	N	700	30	.02	44

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I676960	37 20 52	88 51 34	.05	1.5	.5	.2	N	.07	N	N	N	<10
I676980	37 20 52	88 51 34	.05	2	1	.2	N	.1	N	N	N	<10
I677000	37 20 52	88 51 34	.1	1	.7	.2	N	.1	N	N	N	N
I677020	37 20 52	88 51 34	.07	1.5	1.5	.2	N	.1	N	N	N	<10
I677070	37 20 52	88 51 34	.5	1	3	<.2	N	.15	N	N	N	<10
I677090	37 20 52	88 51 34	.3	1.5	3	.2	N	.07	N	N	N	<10
I677110	37 20 52	88 51 34	2	1	2	<.2	N	.1	N	N	N	10
I677130	37 20 52	88 51 34	10	1	3	<.2	N	.07	N	N	N	15
I677150	37 20 52	88 51 34	.2	1.5	2	<.2	N	.1	N	N	N	<10
I677170	37 20 52	88 51 34	.7	2	3	.2	N	.07	N	N	N	<10
I677190	37 20 52	88 51 34	.5	1	1	<.2	N	.1	N	N	N	<10
I677210	37 20 52	88 51 34	10	.7	1	<.2	N	.07	N	N	N	10
I677230	37 20 52	88 51 34	10	.5	1	<.2	N	.03	N	N	N	15
I677250	37 20 52	88 51 34	.3	1	1	.2	N	.05	N	N	N	<10
I677270	37 20 52	88 51 34	.15	.5	.7	N	N	.03	N	N	N	N
I677290	37 20 52	88 51 34	.05	1	1	.7	N	.05	N	N	N	N
I677310	37 20 52	88 51 34	.5	2	2	.5	N	.2	N	N	N	15
I677330	37 20 52	88 51 34	1.5	1	1	.7	N	.03	N	N	N	<10
I677350	37 20 52	88 51 34	.15	1.5	2	.5	N	.1	N	N	N	10
I677370	37 20 52	88 51 34	10	.5	1	.2	N	.03	N	N	N	15
I677390	37 20 52	88 51 34	3	1	.5	.5	N	.03	N	N	N	<10
I677410	37 20 52	88 51 34	.1	1.5	.7	.5	N	.1	N	N	N	10
I677430	37 20 52	88 51 34	10	.5	.3	.3	N	.05	N	N	N	10
I677450	37 20 52	88 51 34	1.5	1	.5	<.2	N	.1	N	N	N	10
I677470	37 20 52	88 51 34	.7	1.5	1.5	.2	N	.1	N	N	N	<10
I677490	37 20 52	88 51 34	.5	1	.7	<.2	N	.1	N	N	N	<10
I677510	37 20 52	88 51 34	.07	.7	.3	<.2	N	.07	N	N	N	<10
I677530	37 20 52	88 51 34	.05	1	.7	.2	N	.1	N	N	N	<10
I677550	37 20 52	88 51 34	<.05	1	.3	.2	N	.1	N	N	N	10
I677570	37 20 52	88 51 34	<.05	1	.3	.3	N	.1	N	N	N	<10
I677590	37 20 52	88 51 34	.05	1	.2	.3	N	.07	N	N	N	<10
I677610	37 20 52	88 51 34	<.05	1	.2	.5	N	.07	N	N	N	<10
I677630	37 20 52	88 51 34	.15	1	.5	.2	N	.1	N	N	N	N
I677650	37 20 52	88 51 34	N	.7	.5	.3	N	.07	N	N	N	<10
I677670	37 20 52	88 51 34	.07	.7	.3	<.2	N	.1	N	N	N	<10
I677690	37 20 52	88 51 34	.5	.7	1	.2	N	.07	N	N	N	<10
I677710	37 20 52	88 51 34	<.05	1	.5	.3	N	.1	N	N	N	10
I677730	37 20 52	88 51 34	.07	1.5	.7	.5	N	.15	N	N	N	10
I677750	37 20 52	88 51 34	1	2	2	1	N	.2	N	N	N	10
I677770	37 20 52	88 51 34	2	1.5	3	1	N	.07	N	N	N	N
I677790	37 20 52	88 51 34	.15	1.5	.7	.5	N	.05	N	N	N	<10
I677810	37 20 52	88 51 34	.15	1.5	1	.7	N	.07	N	N	N	<10
I677860	37 20 52	88 51 34	N	.3	.5	N	N	.05	N	N	N	N
I677960	37 20 52	88 51 34	<.05	1	1	.3	N	.1	N	N	N	<10
I677980	37 20 52	88 51 34	.1	.7	1	<.2	N	.07	N	N	N	<10
I678000	37 20 52	88 51 34	.15	1.5	1	.2	N	.15	N	N	N	10
I678020	37 20 52	88 51 34	.07	1	1	.3	N	.1	N	N	N	<10
I678040	37 20 52	88 51 34	2	2	1.5	.2	N	.15	N	N	N	15
I678060	37 20 52	88 51 34	.07	1.5	1.5	.5	N	.15	N	N	N	<10
I678080	37 20 52	88 51 34	1.5	1.5	1	.3	N	.15	N	N	N	10
I678100	37 20 52	88 51 34	3	1	3	.5	N	.07	N	N	N	<10
I678120	37 20 52	88 51 34	.3	.7	.5	.5	N	.07	N	N	N	<10
I678140	37 20 52	88 51 34	.2	.5	.2	N	N	.05	N	N	N	N
I678160	37 20 52	88 51 34	.07	.7	.5	.3	N	.07	N	N	N	<10
I678180	37 20 52	88 51 34	3	1	5	.7	N	.05	N	N	N	<10
I678200	37 20 52	88 51 34	.15	.7	.5	.3	N	.07	N	N	N	N
I678220	37 20 52	88 51 34	.2	1	.5	.5	N	.1	N	N	N	<10
I678240	37 20 52	88 51 34	.1	1	.3	.3	N	.1	N	N	N	<10
I678260	37 20 52	88 51 34	.07	1	.15	.3	N	.05	N	N	N	<10
I678280	37 20 52	88 51 34	.05	.7	.15	.3	N	.07	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I676960	500	N	N	N	N	10	10	15	N	N	N	7	N
I676980	700	N	N	N	<10	10	7	20	N	N	N	<5	N
I677000	300	N	N	N	N	10	5	10	N	N	N	N	N
I677020	300	N	N	N	N	10	7	7	N	N	10	N	N
I677070	7D0	N	N	N	N	<10	5	5	N	N	15	N	N
I677090	500	N	N	N	N	10	7	20	N	N	10	5	N
I677110	300	N	N	N	N	15	7	15	N	N	20	N	N
I677130	300	N	N	N	N	15	10	10	N	N	<10	N	N
I677150	500	N	N	N	N	15	7	15	N	N	10	<5	N
I677170	500	N	N	N	N	30	15	15	N	N	10	7	N
I677190	1,500	N	N	N	N	<10	7	5	N	N	<10	<5	N
I677210	1,000	N	N	N	N	<10	7	5	N	N	15	N	N
I677230	200	N	N	N	N	N	5	<5	N	N	10	5	N
I677250	300	N	N	N	N	<10	7	7	N	N	100	<5	N
I677270	100	N	N	N	N	N	<5	N	N	N	N	N	N
I677290	300	N	N	N	N	<10	<5	50	N	N	30	N	N
I677310	700	N	N	N	<10	30	20	70	N	N	70	5	<20
I677330	1,000	N	N	N	N	N	<5	50	N	N	150	N	<20
I677350	200	N	N	N	<10	20	15	30	N	N	30	<5	N
I677370	300	N	N	N	N	N	<5	10	N	N	20	N	N
I677390	2,000	N	N	N	N	N	5	20	N	N	10	N	N
I677410	300	N	N	N	N	<10	10	30	N	N	10	N	N
I677430	300	N	N	N	N	N	5	5	N	N	N	N	N
I677450	500	N	N	N	N	N	15	10	N	N	<10	N	N
I677470	200	N	N	N	N	10	10	15	N	N	10	<5	N
I677490	150	N	N	N	N	<10	7	5	N	N	N	N	N
I677510	200	N	N	N	N	<10	<5	5	N	N	N	N	N
I677530	200	N	N	N	N	N	20	10	N	N	N	<5	N
I677550	200	N	N	N	N	N	10	7	N	N	<10	N	N
I677570	200	N	N	N	N	N	10	7	N	N	N	N	N
I677590	500	N	N	N	N	N	5	10	N	N	<10	7	N
I677610	300	N	N	N	N	<10	10	15	N	N	N	<5	N
I677630	300	N	N	N	N	N	<5	10	N	N	N	5	N
I677650	200	N	N	N	N	N	5	5	N	N	N	N	N
I677670	700	N	N	N	N	N	<5	5	N	N	N	N	N
I677690	500	N	N	N	N	N	5	7	N	N	N	<5	N
I677710	300	N	N	N	N	<10	15	10	N	N	<10	N	N
I677730	300	N	N	N	N	10	10	20	N	N	10	5	N
I677750	500	<1	N	N	<10	30	15	70	N	N	70	<5	<20
I677770	500	N	N	N	N	10	<5	50	N	N	150	N	N
I677790	200	N	N	N	N	N	<5	20	N	N	100	N	N
I677810	300	N	N	N	N	<10	5	30	N	N	50	<5	N
I677860	200	N	N	N	N	N	N	N	N	N	N	N	N
I677960	200	N	N	N	N	10	7	15	N	N	<10	<5	N
I677980	300	N	N	N	N	N	7	10	N	N	N	N	N
I678000	300	N	N	N	N	15	15	30	N	N	<10	N	N
I678020	200	N	N	N	N	<10	7	15	N	N	N	N	N
I678040	700	N	N	N	<10	20	15	20	N	N	20	<5	N
I678060	500	N	N	N	<10	20	10	30	N	N	20	5	N
I678080	300	N	N	N	<10	15	10	20	N	N	10	<5	N
I678100	150	N	N	N	N	10	15	15	N	N	15	5	N
I678120	200	N	N	N	N	N	7	7	N	N	<10	<5	N
I678140	70	N	N	N	N	N	<5	N	N	N	N	N	N
I678160	200	N	N	N	N	<10	7	5	N	N	<10	N	N
I678180	100	N	N	N	N	10	5	10	N	N	15	N	N
I678200	150	N	N	N	N	N	7	5	N	N	N	N	N
I678220	300	N	N	N	N	<10	5	7	N	N	10	<5	N
I678240	300	N	N	N	N	N	10	7	N	N	N	<5	N
I678260	200	N	N	N	N	N	5	5	N	N	<10	N	N
I678280	300	N	N	N	N	N	5	7	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I676960	7	15	N	N	N	300	N	10	N	N	<200	50	.03	44
I676980	5	20	N	N	N	200	N	15	<20	N	N	70	.08	44
I677000	5	<10	N	N	N	500	N	10	N	N	N	70	.1	44
I677020	5	<10	N	N	N	1,500	N	15	N	N	N	50	.19	44
I677070	7	<10	N	N	N	500	N	15	N	N	N	70	.28	44
I677090	7	15	N	N	N	1,000	N	15	20	N	N	30	.28	44
I677110	7	<10	N	N	N	100	N	20	N	N	N	50	.25	44
I677130	7	10	N	N	N	1,000	N	15	N	N	<200	30	.24	44
I677150	7	10	N	N	N	150	N	20	N	N	N	70	.24	44
I677170	10	15	N	N	N	100	N	20	N	N	N	30	.5	44
I677190	5	N	N	N	N	5,000	N	10	N	N	N	100	.18	44
I677210	5	<10	N	N	N	>5,000	N	15	<20	N	N	20	.16	44
I677230	<5	<10	N	N	N	1,500	N	10	N	N	N	<10	.18	44
I677250	5	<10	N	N	N	<100	N	10	<20	N	N	70	.15	44
I677270	5	N	N	N	N	<100	N	<10	20	N	N	20	.09	44
I677290	<5	10	N	N	N	100	N	10	N	N	N	50	.15	44
I677310	15	15	N	<5	N	<100	N	30	30	N	N	70	.24	44
I677330	N	<10	N	<5	N	5,000	N	<10	N	N	N	20	.09	44
I677350	7	15	N	N	N	150	N	20	N	N	N	30	.31	44
I677370	N	<10	N	N	N	3,000	N	<10	N	N	N	15	.09	44
I677390	<5	<10	N	N	N	>5,000	N	<10	N	N	N	20	.06	44
I677410	7	10	N	N	N	500	N	15	N	N	N	20	.1	44
I677430	<5	<10	N	N	N	3,000	N	<10	N	N	N	20	.06	44
I677450	5	10	N	N	N	2,000	N	10	N	N	N	50	.11	44
I677470	7	100	N	N	N	300	N	15	N	N	N	50	.15	44
I677490	5	N	N	N	N	<100	N	10	N	N	N	50	.1	44
I677510	<5	N	N	N	N	N	N	<10	N	N	N	150	.08	44
I677530	5	<10	N	N	N	N	N	10	N	N	N	100	.08	44
I677550	5	N	N	N	N	N	N	15	N	N	N	50	.06	44
I677570	5	N	N	N	N	N	N	10	N	N	N	30	.08	44
I677590	<5	<10	N	N	N	5,000	N	<10	N	N	N	50	.06	44
I677610	5	10	N	N	N	200	N	10	N	N	N	50	.06	44
I677630	<5	<10	N	N	N	150	N	10	N	N	N	50	.06	44
I677650	<5	N	N	N	N	N	N	<10	N	N	N	100	.11	44
I677670	<5	N	N	N	N	2,000	N	10	N	N	N	100	.1	44
I677690	5	<10	N	N	N	700	N	10	N	N	N	100	.12	44
I677710	<5	N	N	N	N	N	N	10	N	N	N	70	.11	44
I677730	5	<10	N	N	N	N	N	15	N	N	N	50	.14	44
I677750	10	15	N	<5	N	100	N	30	N	N	N	70	.19	44
I677770	5	15	N	N	N	<100	N	15	N	N	N	70	.12	44
I677790	<5	N	N	N	N	N	N	<10	N	N	N	30	.07	44
I677810	5	<10	N	N	N	N	N	15	N	N	N	70	.07	44
I677860	N	N	N	N	N	N	N	N	N	N	N	150	.05	44
I677960	7	N	N	N	N	N	N	20	N	N	N	50	.07	44
I677980	<5	N	N	N	N	N	N	15	N	N	N	100	.13	44
I678000	7	N	N	N	N	N	N	15	N	N	N	70	.07	44
I678020	5	N	N	N	N	N	N	15	N	N	N	70	.11	44
I678040	10	<10	N	N	N	2,000	N	30	70	N	N	70	.13	44
I678060	10	<10	N	N	N	N	N	30	<20	N	N	100	.08	44
I678080	10	<10	N	N	N	N	N	20	N	N	<200	70	.14	44
I678100	7	<10	N	N	N	N	N	15	N	N	N	30	.14	44
I678120	5	N	N	N	N	N	N	10	N	N	N	70	.07	44
I678140	N	N	N	N	N	N	N	<10	N	N	500	30	.04	44
I678160	5	N	N	N	N	N	N	15	N	N	N	70	.06	44
I678180	5	10	N	N	N	N	N	15	N	N	N	50	.07	44
I678200	<5	N	N	N	N	N	N	10	N	N	N	100	.05	44
I678220	5	N	N	N	N	N	N	15	N	N	N	100	.07	44
I678240	5	<10	N	N	N	N	N	10	N	N	300	150	.04	44
I678260	5	<10	N	N	N	N	N	10	N	N	<200	100	.11	44
I678280	<5	<10	N	N	N	N	N	10	N	N	200	100	.07	44

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I678300	37 20 52	88 51 34	.15	.7	.3	<.2	N	.05	N	N	N	N
I678320	37 20 52	88 51 34	1	1.5	1	.2	N	.1	N	N	N	N
I678340	37 20 52	88 51 34	.5	1	1	<.2	N	.07	N	N	N	N
I678360	37 20 52	88 51 34	1.5	1.5	2	<.2	N	.15	N	N	N	N
I678380	37 20 52	88 51 34	.15	1.5	1.5	<.2	N	.1	N	N	N	N
I678400	37 20 52	88 51 34	.3	2	1	.3	N	.2	N	N	N	N
I678420	37 20 52	88 51 34	.7	1.5	1	.3	N	.15	N	N	N	N
I678440	37 20 52	88 51 34	.15	1.5	.7	.2	N	.15	N	N	N	N
I678460	37 20 52	88 51 34	.1	1	.7	<.2	N	.1	N	N	N	N
I678480	37 20 52	88 51 34	.5	1	.3	N	N	.03	N	N	N	N
I678500	37 20 52	88 51 34	.1	1	.2	N	N	.05	N	N	N	N
I678520	37 20 52	88 51 34	.3	1.5	1	<.2	N	.07	N	N	N	N
I678540	37 20 52	88 51 34	.1	.5	.2	N	N	.02	N	N	N	N
I678560	37 20 52	88 51 34	<.05	.7	.3	N	N	.05	N	N	N	N
I678580	37 20 52	88 51 34	.7	1	.5	N	N	.05	N	N	N	N
I678600	37 20 52	88 51 34	.7	.5	.7	N	N	.02	N	N	N	N
I678620	37 20 52	88 51 34	.05	1	.3	N	N	.05	N	N	N	N
I678640	37 20 52	88 51 34	.15	.5	.3	N	N	.02	N	N	N	N
I678660	37 20 52	88 51 34	N	.3	.1	N	N	.02	N	N	N	N
I678680	37 20 52	88 51 34	.15	.5	.1	N	N	.02	N	N	N	N
I678700	37 20 52	88 51 34	.05	.7	.15	N	N	.03	N	N	N	<10
I678720	37 20 52	88 51 34	.07	1.5	.2	N	N	.05	N	N	N	<10
I678740	37 20 52	88 51 34	.15	1	.15	N	N	.05	N	N	N	N
I678760	37 20 52	88 51 34	<.05	.7	.1	N	N	.03	N	N	N	N
I678780	37 20 52	88 51 34	<.05	1	.2	<.2	N	.05	N	N	N	N
I678800	37 20 52	88 51 34	<.05	.7	.1	N	N	.03	N	N	N	N
I678820	37 20 52	88 51 34	N	.5	.1	N	N	.02	N	N	N	N
I678850	37 20 52	88 51 34	<.05	1	.2	.2	N	.07	N	N	N	N
I678870	37 20 52	88 51 34	.15	1.5	.5	<.2	N	.05	N	N	N	N
I678890	37 20 52	88 51 34	.1	1	.15	<.2	N	.05	N	N	N	N
I678910	37 20 52	88 51 34	.05	.2	.07	N	N	.01	N	N	N	N
I678930	37 20 52	88 51 34	N	.7	.1	N	N	.03	N	N	N	N
I678960	37 20 52	88 51 34	<.05	1	.3	N	N	.07	N	N	N	<10
I678990	37 20 52	88 51 34	N	.5	.1	N	N	.02	N	N	N	N
I679010	37 20 52	88 51 34	N	.3	.07	N	N	.02	N	N	N	N
I679030	37 20 52	88 51 34	.5	1	1.5	<.2	N	.07	N	N	N	N
I679060	37 20 52	88 51 34	N	.5	.05	N	N	.02	N	N	N	N
I679090	37 20 52	88 51 34	N	.7	.1	N	N	.03	N	N	N	N
I679110	37 20 52	88 51 34	<.05	.5	.07	N	N	.02	N	N	N	N
I679130	37 20 52	88 51 34	.05	.7	.1	N	N	.03	N	N	N	N
I679150	37 20 52	88 51 34	1	.7	1.5	N	N	.02	N	N	N	N
I679170	37 20 52	88 51 34	.15	.5	.2	<.2	N	.02	N	N	N	<10
I679190	37 20 52	88 51 34	.1	1	.7	<.2	N	.05	N	N	N	<10
I679210	37 20 52	88 51 34	.05	1	.3	N	N	.07	N	N	N	<10
I679230	37 20 52	88 51 34	.07	1	.3	N	N	.07	N	N	N	<10
I679260	37 20 52	88 51 34	.7	.5	1	N	N	.03	N	N	N	N
I679280	37 20 52	88 51 34	<.05	1	.15	N	N	.05	N	N	N	10
I679300	37 20 52	88 51 34	.1	1	.3	N	N	.05	N	N	N	10
I679320	37 20 52	88 51 34	<.05	.7	.2	N	N	.02	N	N	N	<10
I679340	37 20 52	88 51 34	5	.5	5	<.2	N	.02	N	N	N	N
I679360	37 20 52	88 51 34	.07	1	.2	<.2	N	.05	N	N	N	<10
I679380	37 20 52	88 51 34	<.05	.5	.1	N	N	.02	N	N	N	<10
I679400	37 20 52	88 51 34	N	.7	.3	N	N	.03	N	N	N	10
I679420	37 20 52	88 51 34	N	.2	.05	N	N	.003	N	N	N	<10
I679440	37 20 52	88 51 34	<.05	.5	.07	N	N	.015	N	N	N	10
I679460	37 20 52	88 51 34	.05	.3	.1	N	N	.02	N	N	N	15
I679480	37 20 52	88 51 34	.15	.5	.15	N	N	.03	N	N	N	<10
I679500	37 20 52	88 51 34	N	.2	.02	N	N	.01	N	N	N	10
I6709520	37 20 37	88 51 54	<.05	.2	.05	N	N	.02	N	N	N	20
I6709540	37 20 37	88 51 54	N	.2	.03	N	N	.01	N	N	N	15

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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
I678300	500	N	N	N	N	N	<5	<5	N	N	<10	N	N
I678320	300	N	N	N	<10	15	15	15	N	N	10	5	N
I678340	150	N	N	N	N	<10	5	5	N	N	N	N	N
I678360	200	N	N	N	<10	20	15	20	N	N	10	<5	N
I678380	150	N	N	N	<10	20	15	15	N	N	10	<5	N
I678400	300	N	N	N	<10	30	30	50	N	N	10	7	N
I678420	200	N	N	N	<10	20	20	30	N	N	10	7	N
I678440	150	N	N	N	<10	15	15	20	N	N	10	<5	N
I678460	100	N	N	N	<10	10	15	10	N	N	<10	N	N
I678480	50	N	N	N	N	N	<5	N	N	N	N	N	N
I678500	70	N	N	N	N	N	<5	N	N	N	N	N	N
I678520	70	N	N	N	N	<10	30	5	N	N	N	N	N
I678540	50	N	N	N	N	N	<5	N	N	N	N	N	N
I678560	100	N	N	N	N	N	<5	N	N	N	<10	N	N
I678580	100	N	N	N	N	<10	7	<5	N	N	N	N	N
I678600	70	N	N	N	N	N	<5	N	N	N	N	N	N
I678620	100	N	N	N	N	<10	10	<5	N	N	N	N	N
I678640	30	N	N	N	N	N	<5	N	N	N	N	N	N
I678660	30	N	N	N	N	N	N	N	N	N	N	N	N
I678680	50	N	N	N	N	N	5	N	N	N	<10	N	N
I678700	100	N	N	N	N	N	15	N	N	N	N	7	N
I678720	70	N	N	N	N	N	7	N	N	N	N	<5	N
I678740	100	N	N	N	N	N	10	N	N	N	N	5	N
I678760	50	N	N	N	N	N	5	N	N	N	N	<5	N
I678780	70	N	N	N	N	<10	7	<5	N	N	N	5	N
I678800	200	N	N	N	N	N	<5	N	N	N	N	N	N
I678820	30	N	N	N	N	N	<5	N	N	N	N	N	N
I678850	200	N	N	N	N	<10	5	<5	N	N	N	<5	N
I678870	150	N	N	N	20	<10	15	5	N	N	N	5	<20
I678890	100	N	N	N	N	N	<5	<5	N	N	N	<5	N
I678910	50	N	N	N	N	N	N	N	N	N	N	N	N
I678930	200	N	N	N	N	N	<5	<5	N	N	N	5	N
I678960	150	N	N	N	N	<10	7	5	N	N	N	<5	N
I678990	30	N	N	N	N	N	<5	N	N	N	N	N	N
I679010	50	N	N	N	N	N	<5	N	N	N	N	N	N
I679030	200	N	N	N	N	<10	10	5	N	N	N	5	N
I679060	30	N	N	N	N	N	<5	N	N	N	N	N	N
I679090	50	N	N	N	N	N	7	N	N	N	N	<5	N
I679110	30	N	N	N	N	N	7	N	N	N	N	N	N
I679130	70	N	N	N	N	N	5	N	N	N	<10	N	N
I679150	30	N	N	N	N	N	5	N	N	N	N	N	N
I679170	150	N	N	N	N	N	<5	<5	N	N	30	N	N
I679190	100	N	N	N	N	<10	10	5	N	N	<10	5	N
I679210	50	N	N	N	N	<10	7	5	N	N	N	<5	N
I679230	70	N	N	N	N	<10	7	7	N	N	10	5	N
I679260	50	N	N	N	N	N	<5	N	N	N	N	N	N
I679280	100	N	N	N	N	<10	15	7	N	N	<10	5	N
I679300	70	N	N	N	N	N	7	N	N	N	N	5	N
I679320	50	N	N	N	<10	N	5	N	N	N	N	<5	N
I679340	30	N	N	N	N	<10	<5	<5	N	N	10	7	N
I679360	70	N	N	N	N	<10	7	<5	N	N	<10	5	N
I679380	30	N	N	N	N	N	<5	N	N	N	20	<5	N
I679400	30	N	N	N	N	N	7	N	N	N	15	10	N
I679420	N	N	N	N	N	N	N	N	N	N	N	N	N
I679440	20	N	N	N	N	N	<5	N	N	N	<10	5	<20
I679460	30	N	N	N	N	N	5	N	N	N	<10	5	N
I679480	20	N	N	N	N	N	10	N	N	N	<10	5	N
I679500	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I6709520	20	N	N	N	N	N	<5	N	N	N	<10	<5	N
I6709540	<20	N	N	N	N	N	<5	N	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I678300	<5	N	N	N	N	N	N	10	N	N	N	50	.12	44
I678320	7	<10	N	N	N	N	N	20	N	N	N	70	.12	44
I678340	5	N	N	N	N	N	N	15	N	N	N	50	.62	44
I678360	10	10	N	N	N	N	N	20	N	N	N	70	.29	44
I678380	10	N	N	N	N	N	N	20	20	N	N	20	.13	44
I678400	15	10	N	N	N	N	N	30	N	N	N	30	.1	44
I678420	15	<10	N	N	N	N	N	30	N	N	N	30	.07	44
I678440	10	N	N	N	N	N	N	20	N	N	N	100	.07	44
I678460	7	N	N	N	N	N	N	15	N	N	N	20	.06	44
I678480	N	N	N	N	N	N	N	<10	N	N	N	15	.03	44
I678500	<5	N	N	N	N	N	N	10	50	N	N	30	.04	44
I678520	7	N	N	N	N	N	N	10	N	N	N	20	.07	44
I678540	N	N	N	N	N	N	N	<10	N	N	N	30	.07	44
I678560	<5	N	N	N	N	N	N	<10	N	N	N	50	.04	44
I678580	5	N	N	N	N	<100	N	<10	N	N	N	50	.05	44
I678600	<5	N	N	N	N	N	N	<10	N	N	N	20	.08	44
I678620	5	N	N	N	N	N	N	10	N	N	N	50	.04	44
I678640	N	N	N	N	N	N	N	N	N	N	N	20	.04	44
I678660	N	N	N	N	N	N	N	N	N	N	N	10	.03	44
I678680	<5	N	N	N	N	N	N	<10	N	N	N	20	.04	44
I678700	<5	N	N	N	N	N	N	10	N	N	N	10	.04	44
I678720	5	N	N	N	N	N	N	10	N	N	N	15	.03	44
I678740	5	N	N	N	N	N	N	10	N	N	N	30	.03	44
I678760	<5	N	N	N	N	N	N	<10	30	N	N	15	.03	44
I678780	5	15	N	N	N	N	N	10	N	N	N	30	.03	44
I678800	N	N	N	N	N	N	N	<10	20	N	N	30	.02	44
I678820	<5	N	N	N	N	N	N	N	20	N	N	50	.03	44
I678850	5	200	N	N	N	N	N	<10	70	N	N	70	.03	44
I678870	5	10	N	N	N	N	N	10	1,000	N	N	50	.04	44
I678890	5	70	N	N	N	N	N	<10	50	N	N	50	.03	44
I678910	N	<10	N	N	N	N	N	N	<20	N	N	15	.02	44
I678930	<5	N	N	N	N	N	N	N	N	N	N	70	.03	44
I678960	5	<10	N	N	N	N	N	10	N	N	N	50	.03	44
I678990	<5	N	N	N	N	N	N	N	N	N	N	15	.03	44
I679010	N	10	N	N	N	N	N	N	N	N	N	20	.02	44
I679030	5	<10	N	N	N	<100	N	10	N	N	N	70	.08	44
I679060	<5	N	N	N	N	N	N	N	N	N	N	15	.03	44
I679090	7	15	N	N	<10	N	N	<10	N	N	N	20	.03	44
I679110	<5	15	N	N	N	N	N	<10	N	N	N	15	.03	44
I679130	<5	N	N	N	N	N	N	N	N	N	N	30	.03	44
I679150	5	N	N	N	N	N	N	N	<20	N	N	10	.02	44
I679170	N	<10	N	N	N	N	N	<10	30	N	N	15	.02	46
I679190	<5	10	N	N	N	N	N	15	N	N	N	30	.06	46
I679210	7	100	N	N	N	N	N	10	N	N	N	10	.04	46
I679230	7	<10	N	N	N	N	N	15	70	N	N	15	.03	46
I679260	<5	N	N	N	N	N	N	N	N	N	N	30	.03	46
I679280	7	30	N	N	N	N	N	15	30	N	N	20	.03	46
I679300	7	N	N	N	N	N	N	10	<20	N	N	30	.03	46
I679320	10	N	N	N	N	N	N	N	N	N	N	15	.03	46
I679340	10	10	N	N	N	N	N	<10	50	N	N	<10	.02	46
I679360	10	15	N	N	N	<100	N	10	70	N	N	20	.03	46
I679380	5	N	N	N	N	N	N	N	50	N	N	N	.03	46
I679400	15	15	N	N	N	N	N	<10	50	N	N	15	.02	46
I679420	<5	N	N	N	N	N	N	N	<20	N	N	N	.02	46
I679440	7	N	N	N	N	N	N	N	700	N	N	<10	.02	46
I679460	5	N	N	N	N	N	N	N	N	N	<200	<10	.02	46
I679480	5	15	N	N	N	N	N	<10	N	N	1,000	10	.02	46
I679500	<5	N	N	N	N	N	N	N	N	N	N	N	.02	46
I6709520	7	N	N	N	N	N	N	10	20	N	N	N	.01	46
I6709540	10	N	N	N	N	N	N	<10	N	N	N	N	.01	46

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6709560	37 20 37	88 51 54	N	.1	.03	N	N	.007	N	N	N	20
I6709580	37 20 37	88 51 54	<.05	.3	.07	N	N	.02	N	N	N	20
I6709600	37 20 37	88 51 54	N	.15	.02	N	N	.01	N	N	N	15
I6709620	37 20 37	88 51 54	N	.5	.1	N	N	.05	N	N	N	15
I6709640	37 20 37	88 51 54	<.05	.7	.2	<.2	N	.1	N	N	N	20
I6709660	37 20 37	88 51 54	N	1.5	.3	.2	N	.15	N	N	N	15
I6709680	37 20 37	88 51 54	<.05	.7	.15	N	N	.1	N	N	N	20
I6709700	37 20 37	88 51 54	N	1.5	.2	<.2	N	.15	N	N	N	15
I6709720	37 20 37	88 51 54	<.05	1	.2	N	N	.1	N	N	N	20
I6709740	37 20 37	88 51 54	N	1	.3	<.2	N	.1	N	N	N	20
I6709760	37 20 37	88 51 54	<.05	1.5	.5	N	N	.15	N	N	N	20
I6709780	37 20 37	88 51 54	N	.3	.07	N	N	.02	N	N	N	15
I6709820	37 20 37	88 51 54	<.05	.3	.07	N	N	.03	N	N	N	30
I6709840	37 20 37	88 51 54	N	.3	.05	N	N	.02	N	N	N	15
I6709860	37 20 37	88 51 54	<.05	1	.3	N	N	.1	N	N	N	20
I6709880	37 20 37	88 51 54	N	.7	.2	<.2	N	.07	N	N	N	15
I6709900	37 20 37	88 51 54	<.05	.7	.1	N	N	.03	N	N	N	15
I6709920	37 20 37	88 51 54	<.05	.3	.05	N	N	.02	N	N	N	10
I6709940	37 20 37	88 51 54	<.05	.5	.05	N	N	.03	N	N	N	10
I6709960	37 20 37	88 51 54	<.05	1	.05	<.2	N	.05	N	N	N	<10
I6709980	37 20 37	88 51 54	<.05	.7	.05	N	N	.07	N	N	N	10
I6710000	37 20 37	88 51 54	<.05	.5	.07	N	N	.03	N	N	N	10
I6710020	37 20 37	88 51 54	<.05	1	.1	.2	N	.05	N	N	N	15
I6710040	37 20 37	88 51 54	.05	1	.07	<.2	N	.05	N	N	N	15
I6710060	37 20 37	88 51 54	.07	1.5	.2	.2	N	.1	N	N	N	20
I6710080	37 20 37	88 51 54	<.05	1.5	.15	<.2	N	.15	N	N	N	20
I6710100	37 20 37	88 51 54	.15	1	.1	.5	N	.05	N	N	N	15
I6710120	37 20 37	88 51 54	.2	.7	.1	.2	N	.05	N	N	N	20
I6710140	37 20 37	88 51 54	<.05	1	.2	N	N	.07	N	N	N	20
I6710160	37 20 37	88 51 54	<.05	.5	.1	N	N	.03	.5	N	N	20
I6710180	37 20 37	88 51 54	<.05	.5	.1	N	N	.03	N	N	N	20
I6710200	37 20 37	88 51 54	<.05	1	.15	<.2	N	.07	N	N	N	20
I6710220	37 20 37	88 51 54	<.05	.7	.1	N	N	.05	N	N	N	15
I6710240	37 20 37	88 51 54	<.05	.3	.05	N	N	.02	N	N	N	15
I6710260	37 20 37	88 51 54	<.05	1	.15	N	N	.1	N	N	N	20
I6710280	37 20 37	88 51 54	.2	1	.2	N	N	.1	N	N	N	30
I6710300	37 20 37	88 51 54	.05	.7	.15	<.2	N	.05	N	N	N	20
I6710320	37 20 37	88 51 54	<.05	.5	.1	.2	N	.02	N	N	N	10
I6710340	37 20 37	88 51 54	.05	1	.15	N	N	.1	N	N	N	15
I6710360	37 20 37	88 51 54	.05	.5	.1	N	N	.03	N	N	N	20
I6710380	37 20 37	88 51 54	<.05	.5	.05	N	N	.02	N	N	N	10
I6710400	37 20 37	88 51 54	<.05	.5	.05	N	N	.02	N	N	N	<10
I6710420	37 20 37	88 51 54	<.05	.7	.03	N	N	.02	N	N	N	<10
I6710440	37 20 37	88 51 54	.15	.5	.1	N	N	.02	N	N	N	10
I6710460	37 20 37	88 51 54	<.05	1	.07	N	N	.03	N	N	N	10
I6710480	37 20 37	88 51 54	.3	.5	.1	N	N	.03	N	N	N	15
I6710500	37 20 37	88 51 54	<.05	.3	.03	N	N	.005	N	N	N	10
I6710520	37 20 37	88 51 54	.07	.7	.1	N	N	.01	N	N	N	15
I6710540	37 20 37	88 51 54	<.05	1	.07	N	N	.02	N	N	N	15
I6710560	37 20 37	88 51 54	<.05	2	.07	N	N	.03	.5	N	N	20
I6710580	37 20 37	88 51 54	<.05	5	.03	N	N	.007	.5	N	N	15
I6710600	37 20 37	88 51 54	<.05	7	.05	N	N	.01	1	N	N	<10
I6710620	37 20 37	88 51 54	.05	1	.07	N	N	.015	N	N	N	20
I6710640	37 20 37	88 51 54	2	3	.07	N	N	.02	.5	N	N	15
I6710660	37 20 37	88 51 54	.05	2	.1	.5	N	.05	N	N	N	15
I6710680	37 20 37	88 51 54	<.05	10	.1	N	N	.05	N	N	N	15
I6710700	37 20 37	88 51 54	<.05	5	.03	N	N	.03	N	N	N	20
I6710720	37 20 37	88 51 54	<.05	1.5	.05	N	N	.02	N	N	N	30
I6710740	37 20 37	88 51 54	.05	2	.1	<.2	N	.03	N	N	N	15
I6710760	37 20 37	88 51 54	<.05	2	.05	<.2	N	.02	N	N	N	15

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6709560	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I6709580	30	N	N	N	N	N	5	N	N	N	<10	5	N
I6709600	N	N	N	N	N	N	<5	N	N	N	N	N	N
I6709620	150	N	N	N	N	N	5	<5	N	70	<10	5	N
I6709640	1,500	N	N	N	N	<10	5	<5	N	N	<10	<5	N
I6709660	1,000	N	N	N	N	10	10	15	N	N	<10	5	N
I6709680	2,000	N	N	N	N	N	5	<5	N	N	<10	5	N
I6709700	1,000	N	N	N	N	<10	10	10	N	N	10	10	N
I6709720	200	N	N	N	N	N	7	5	N	N	10	5	N
I6709740	200	N	N	N	N	<10	10	15	N	N	10	7	N
I6709760	150	N	N	N	N	20	15	7	N	N	20	20	N
I6709780	<20	N	N	N	N	N	10	N	N	N	N	N	N
I6709820	100	N	N	N	N	N	5	N	N	N	<10	<5	N
I6709840	<20	N	N	N	N	N	5	N	N	N	N	<5	N
I6709860	50	N	N	N	N	<10	10	7	N	N	10	20	N
I6709880	30	N	N	N	N	N	7	<5	N	N	N	10	N
I6709900	150	N	N	N	N	<10	7	N	N	N	<10	20	N
I6709920	100	N	N	N	N	N	<5	N	N	N	10	<5	N
I6709940	200	N	N	N	N	N	5	N	N	N	50	<5	N
I6709960	200	N	N	N	20	15	10	N	N	N	N	7	<20
I6709980	200	N	N	N	<10	N	15	N	N	N	<10	7	N
I6710000	300	N	N	N	N	N	7	N	N	N	N	5	N
I6710020	150	N	N	N	N	N	7	N	N	N	30	15	N
I6710040	200	N	N	N	N	N	7	N	N	N	N	5	N
I6710060	200	N	N	N	N	10	30	10	N	N	N	15	N
I6710080	150	N	N	N	N	<10	10	7	N	N	N	7	N
I6710100	700	N	N	N	N	N	5	7	N	N	30	<5	N
I6710120	70	N	N	N	N	N	5	<5	N	N	N	7	N
I6710140	50	N	N	N	N	N	10	5	N	N	N	5	N
I6710160	30	N	N	N	N	N	5	N	N	N	N	<5	N
I6710180	20	N	N	N	N	N	<5	N	N	N	N	5	N
I6710200	70	N	N	N	N	N	7	N	N	N	N	10	N
I6710220	30	N	N	N	N	N	<5	N	N	N	N	7	N
I6710240	20	N	N	N	N	N	<5	N	N	N	N	<5	N
I6710260	70	N	N	N	N	<10	15	<5	N	N	N	30	N
I6710280	100	N	N	N	N	<10	15	<5	N	N	<10	20	N
I6710300	50	N	N	N	N	N	10	N	N	N	N	5	N
I6710320	500	N	N	N	N	N	5	N	N	N	N	5	N
I6710340	50	N	N	N	<10	<10	20	N	N	N	N	10	N
I6710360	20	N	N	N	N	N	5	N	N	N	N	<5	N
I6710380	30	N	N	N	N	N	5	N	N	N	N	N	N
I6710400	20	N	N	N	N	N	5	N	N	N	N	<5	N
I6710420	<20	N	N	N	N	N	7	N	N	N	N	30	N
I6710440	50	N	N	N	N	N	7	N	N	N	N	<5	N
I6710460	20	N	N	N	N	N	10	N	N	N	N	30	N
I6710480	70	N	N	N	N	N	5	N	N	N	<10	<5	N
I6710500	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I6710520	20	N	N	N	N	N	5	N	N	N	<10	<5	N
I6710540	30	N	N	N	N	N	7	N	N	N	<10	5	N
I6710560	20	N	N	N	N	N	10	N	N	N	<10	<5	N
I6710580	N	N	N	N	N	N	10	N	N	N	N	<5	N
I6710600	20	N	N	N	N	N	15	<5	N	N	<10	N	N
I6710620	20	N	N	N	N	N	5	N	N	N	<10	<5	N
I6710640	<20	N	N	N	N	N	10	N	N	N	<10	5	N
I6710660	70	N	N	N	N	N	10	<5	N	N	N	<5	N
I6710680	50	N	N	N	N	<10	30	15	N	N	10	<5	N
I6710700	20	N	N	N	N	N	15	<5	N	N	<10	<5	N
I6710720	20	N	N	N	N	N	7	N	N	N	N	N	N
I6710740	70	N	N	N	<10	N	5	N	N	N	<10	<5	N
I6710760	<20	N	N	N	N	N	10	N	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 167, 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 #
I6709560	7	N	N	N	N	N	N	<10	N	N	N	N	<.01	46
I6709580	7	N	N	N	N	N	N	10	N	N	N	10	.01	63
I6709600	5	N	N	N	N	N	N	<10	50	N	N	N	.01	63
I6709620	7	N	N	N	N	N	N	10	N	N	N	30	.02	63
I6709640	15	N	N	N	N	N	N	15	N	N	N	15	.02	63
I6709660	20	<10	N	N	N	N	N	30	N	N	N	70	.03	63
I6709680	20	N	N	N	N	N	N	10	N	N	N	70	.02	63
I6709700	10	N	N	N	N	N	N	15	30	N	N	50	.02	63
I6709720	10	<10	N	N	N	N	N	15	N	N	N	70	.03	63
I6709740	20	10	N	N	N	N	N	20	N	N	N	10	.03	63
I6709760	15	10	N	N	N	N	N	30	N	N	N	30	.05	63
I6709780	5	N	N	N	N	N	N	<10	N	N	N	<10	.02	63
I6709820	5	N	N	N	N	N	N	15	N	N	N	<10	.01	63
I6709840	5	N	N	N	N	N	N	<10	N	N	N	N	.01	63
I6709860	10	N	N	N	N	N	N	20	N	N	N	15	.02	63
I6709880	10	<10	N	N	N	N	N	15	<20	N	N	<10	.02	63
I6709900	15	N	N	N	N	N	N	10	200	N	N	10	.02	63
I6709920	5	N	N	N	N	N	N	<10	20	N	N	70	<.01	63
I6709940	5	N	N	N	N	N	N	<10	N	N	N	15	<.01	63
I6709960	15	N	N	N	N	N	N	<10	5,000	N	N	10	<.01	63
I6709980	15	N	N	N	N	N	N	<10	200	N	N	20	<.01	63
I6710000	10	N	N	N	N	N	N	<10	N	N	N	<10	<.01	63
I6710020	10	15	N	N	N	N	N	10	70	N	N	20	.01	63
I6710040	7	<10	N	N	N	N	N	10	70	N	N	50	.01	63
I6710060	10	N	N	N	N	N	N	15	50	N	N	70	.01	63
I6710080	10	N	N	N	N	N	N	15	N	N	N	70	.02	63
I6710100	7	N	N	N	N	N	N	10	70	N	N	20	.01	63
I6710120	7	<10	N	N	N	N	N	15	N	N	N	15	.02	63
I6710140	10	<10	N	N	N	N	N	15	50	N	N	50	.02	63
I6710160	5	N	N	N	N	N	N	<10	<20	N	N	10	.01	63
I6710180	7	N	N	N	N	N	N	<10	<20	N	N	<10	.01	63
I6710200	10	N	N	N	N	N	N	10	20	N	N	15	.01	63
I6710220	7	N	N	N	N	N	N	10	N	N	N	10	.01	63
I6710240	5	N	N	N	N	N	N	<10	N	N	N	<10	<.01	63
I6710260	10	N	N	N	N	N	N	20	100	N	N	30	.02	63
I6710280	10	N	N	N	N	N	N	20	100	N	N	50	.03	63
I6710300	10	N	N	N	N	N	N	10	N	N	N	20	.02	63
I6710320	7	N	N	N	N	N	N	10	<20	N	N	<10	.01	63
I6710340	15	N	N	N	N	N	N	20	150	N	N	15	.02	63
I6710360	7	N	N	N	N	N	N	10	N	N	N	N	.01	63
I6710380	5	N	N	N	N	N	N	<10	N	N	N	N	.01	63
I6710400	5	N	N	N	N	N	N	<10	<20	N	N	10	.01	63
I6710420	7	N	N	N	N	N	N	10	<20	N	N	<10	<.01	63
I6710440	7	N	N	N	N	N	N	<10	N	N	N	10	<.01	63
I6710460	10	<10	N	N	N	N	N	<10	N	N	N	N	<.01	64
I6710480	5	N	N	N	N	N	N	<10	20	N	N	N	<.01	64
I6710500	5	N	N	N	N	N	N	N	N	N	N	N	.01	64
I6710520	7	15	N	N	N	<100	N	<10	N	N	N	N	<.01	64
I6710540	10	N	N	N	N	N	N	<10	N	N	N	N	.01	64
I6710560	7	150	N	N	N	N	N	10	30	N	N	N	.01	64
I6710580	5	150	N	N	N	N	N	N	N	N	N	<10	<.01	64
I6710600	5	500	N	N	N	N	N	N	100	N	N	N	<.01	64
I6710620	5	200	N	N	N	N	N	<10	N	N	N	<10	<.01	64
I6710640	10	150	N	N	N	<100	N	<10	200	N	N	<10	<.01	64
I6710660	10	30	N	N	N	N	N	15	N	N	N	<10	.01	64
I6710680	10	500	N	N	N	N	N	10	N	N	N	<10	.02	64
I6710700	5	200	N	N	N	N	N	10	N	N	N	<10	.01	64
I6710720	5	10	N	N	N	N	N	<10	N	N	N	N	<.01	64
I6710740	7	50	N	N	N	N	N	<10	150	N	N	15	.01	64
I6710760	5	150	N	N	N	N	N	<10	200	N	N	<10	<.01	64

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6710780	37 20 37	88 51 54	.05	1.5	.07	N	N	.03	N	N	N	20
I6710800	37 20 37	88 51 54	<.05	1.5	.1	<.2	N	.1	N	N	N	10
I6710820	37 20 37	88 51 54	<.05	1	.1	.3	N	.03	N	N	N	10
I6710840	37 20 37	88 51 54	<.05	1.5	.1	<.2	N	.07	N	N	N	15
I6710860	37 20 37	88 51 54	.05	1	.07	<.2	N	.05	N	N	N	15
I6710900	37 20 37	88 51 54	<.05	1	.07	.2	N	.05	N	N	N	15
I6710920	37 20 37	88 51 54	.05	1	.07	<.2	N	.03	N	N	N	10
I6710940	37 20 37	88 51 54	.1	2	1	.2	N	.07	N	N	N	10
I6710960	37 20 37	88 51 54	.07	1.5	.3	.2	N	.07	N	N	N	15
I6710980	37 20 37	88 51 54	.07	1.5	.15	<.2	N	.07	N	N	N	20
I6711000	37 20 37	88 51 54	<.05	1	.15	.2	N	.05	N	N	N	10
I6711020	37 20 37	88 51 54	.1	1.5	.2	.2	N	.1	N	N	N	15
I6711040	37 20 37	88 51 54	.5	1.5	.07	<.2	N	.03	N	N	N	<10
I6711060	37 20 37	88 51 54	.5	1.5	.1	.2	N	.07	<.5	N	N	15
I6711100	37 20 37	88 51 54	.15	5	.2	<.2	N	.1	.5	N	N	15
I6711120	37 20 37	88 51 54	.07	3	.2	<.2	N	.03	1	N	N	10
I6711140	37 20 37	88 51 54	<.05	5	.07	.3	N	.07	1	N	N	<10
I6711160	37 20 37	88 51 54	<.05	1.5	.1	.3	N	.07	<.5	N	N	10
I6711180	37 20 37	88 51 54	.2	2	.1	<.2	N	.05	<.5	N	N	15
I6711200	37 20 37	88 51 54	.15	20	.05	N	N	.015	5	N	N	N
I6711220	37 20 37	88 51 54	1.5	10	.07	N	N	.02	3	N	N	10
I6711240	37 20 37	88 51 54	<.05	5	.1	<.2	N	.015	1	N	N	<10
I6711260	37 20 37	88 51 54	<.05	7	.2	.7	N	.07	3	N	N	15
I6711280	37 20 37	88 51 54	.15	10	.15	.2	N	.07	3	N	N	10
I6711300	37 20 37	88 51 54	2	3	.1	.3	N	.05	1	N	N	<10
I6711320	37 20 37	88 51 54	.1	5	.2	.3	N	.1	2	N	N	<10
I6711340	37 20 37	88 51 54	.2	5	.1	.3	N	.07	3	N	N	10
I6711360	37 20 37	88 51 54	.07	3	.1	.3	N	.02	7	N	N	<10
I6711380	37 20 37	88 51 54	1	2	.1	<.2	N	.02	3	N	N	<10
I6711400	37 20 37	88 51 54	2	2	.15	.3	N	.03	2	N	N	10
I6711420	37 20 37	88 51 54	.2	1.5	.15	.3	N	.03	<.5	N	N	<10
I6711440	37 20 37	88 51 54	.3	1	.07	.3	N	.015	<.5	N	N	<10
I6711460	37 20 37	88 51 54	3	.7	.1	.2	N	.02	.5	N	N	10
I6711480	37 20 37	88 51 54	3	1.5	.15	.3	N	.1	1.5	N	N	20
I6711500	37 20 37	88 51 54	5	2	.1	N	N	.05	2	N	N	30
I6711540	37 20 37	88 51 54	7	2	1.5	<.2	N	.07	5	N	N	15
I6711570	37 20 37	88 51 54	.7	1	.7	N	N	.15	1	N	N	30
I6711600	37 20 37	88 51 54	.1	2	1.5	N	N	.2	<.5	N	N	150
I6711620	37 20 37	88 51 54	.7	3	.7	N	N	.1	.5	N	N	70
I6711640	37 20 37	88 51 54	3	3	1	N	N	.15	2	N	N	70
I6711660	37 20 37	88 51 54	.3	1.5	.7	N	N	.15	.5	N	N	50
I6711680	37 20 37	88 51 54	.2	2	2	.5	N	.3	<.5	N	N	150
I6711700	37 20 37	88 51 54	.15	2	2	.3	N	.2	<.5	N	N	200
I6711720	37 20 37	88 51 54	.1	3	2	.5	N	.3	<.5	N	N	200
I6711740	37 20 37	88 51 54	.15	2	1.5	.3	N	.15	N	N	N	100
I6711760	37 20 37	88 51 54	.15	1.5	1	1	N	.15	<.5	N	N	100
I6711780	37 20 37	88 51 54	.07	2	1.5	2	N	.2	<.5	N	N	150
I6711800	37 20 37	88 51 54	.07	1.5	.7	1	N	.1	N	N	N	70
I6711820	37 20 37	88 51 54	<.05	1.5	.7	1	N	.15	1.5	N	N	50
I6711840	37 20 37	88 51 54	.05	2	.5	1.5	N	.1	1	N	N	30
I6711860	37 20 37	88 51 54	.05	1.5	.3	1.5	N	.1	1.5	N	N	20
I6711880	37 20 37	88 51 54	<.05	1.5	.7	1	N	.15	.5	N	N	70
I6711900	37 20 37	88 51 54	<.05	1.5	.5	1	N	.1	.5	N	N	50
I6711920	37 20 37	88 51 54	.07	2	.5	1	N	.15	N	N	N	30
I6711940	37 20 37	88 51 54	.07	1	.3	1	N	.1	N	N	N	20
I6711960	37 20 37	88 51 54	.05	1.5	.7	.7	N	.2	N	N	N	30
I6711980	37 20 37	88 51 54	.05	2	1.5	.7	N	.3	N	N	N	150
I6712000	37 20 37	88 51 54	.05	2	.7	1	N	.2	N	N	N	50
I6712020	37 20 37	88 51 54	.1	2	1	.7	N	.5	N	N	N	100
I6712040	37 20 37	88 51 54	<.05	1.5	1	.5	N	.3	N	N	N	100

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6710780	70	N	N	N	N	N	7	N	N	N	<10	<5	N
I6710800	30	N	N	N	N	N	7	N	N	N	N	10	N
I6710820	70	N	N	N	N	N	5	N	N	N	<10	<5	N
I6710840	30	N	N	N	N	N	15	<5	N	N	N	20	N
I6710860	20	N	N	N	N	N	10	N	N	N	N	5	N
I6710900	50	N	N	N	<10	N	7	N	N	N	N	7	N
I6710920	30	N	N	N	N	N	10	N	N	N	20	5	N
I6710940	50	N	N	N	N	<10	15	<5	N	N	10	7	N
I6710960	150	N	N	N	N	<10	10	N	N	N	<10	5	N
I6710980	100	N	N	N	N	N	10	N	N	N	N	<5	N
I6711000	70	N	N	N	N	<10	20	N	N	N	N	20	N
I6711020	200	N	N	N	N	N	10	5	N	N	N	7	N
I6711040	70	N	N	N	<10	N	5	N	N	N	N	5	N
I6711060	150	N	N	N	<10	<10	10	<5	N	N	N	10	N
I6711100	150	N	N	N	<10	<10	15	10	N	N	10	10	N
I6711120	70	N	N	N	<10	<10	30	5	N	N	15	7	N
I6711140	200	N	N	N	<10	<10	10	7	N	N	<10	7	N
I6711160	200	N	N	N	N	<10	5	5	N	N	10	5	N
I6711180	70	N	N	N	N	N	10	N	N	N	N	5	N
I6711200	20	N	N	N	15	N	15	20	N	N	20	N	N
I6711220	50	N	N	N	<10	N	10	7	N	N	20	<5	N
I6711240	30	N	N	N	N	N	10	<5	N	N	<10	<5	N
I6711260	30	N	N	N	10	<10	20	15	N	N	10	5	N
I6711280	150	N	N	N	15	<10	30	15	N	N	30	10	N
I6711300	200	N	N	N	N	N	10	7	N	N	30	5	N
I6711320	100	N	N	N	15	10	15	15	N	N	15	10	N
I6711340	70	N	N	N	<10	10	20	10	N	N	20	5	N
I6711360	300	N	N	N	N	N	15	5	N	N	20	<5	N
I6711380	200	N	N	N	N	N	10	<5	N	N	15	<5	N
I6711400	50	N	N	N	N	N	10	<5	N	N	20	5	N
I6711420	500	N	N	N	<10	N	5	<5	N	N	15	<5	N
I6711440	200	N	N	N	N	N	7	<5	N	N	10	N	N
I6711460	1,000	N	N	N	N	N	10	N	N	N	<10	N	N
I6711480	5,000	N	N	N	<10	<10	20	<5	N	N	<10	5	N
I6711500	3,000	N	N	N	<10	N	15	<5	N	<50	15	<5	N
I6711540	3,000	N	N	N	N	<10	10	N	N	N	70	5	N
I6711570	3,000	N	N	N	<10	20	20	15	N	N	N	N	N
I6711600	500	<1	N	N	10	30	20	20	N	N	10	N	N
I6711620	500	N	N	N	<10	10	10	10	N	N	10	<5	N
I6711640	700	<1	N	N	<10	20	10	15	N	N	15	<5	N
I6711660	5,000	N	N	N	10	15	7	15	N	N	15	N	N
I6711680	200	1	N	N	<10	30	20	30	N	N	15	N	N
I6711700	100	1.5	N	N	<10	20	15	30	N	N	10	<5	N
I6711720	200	1	N	N	<10	30	20	30	N	N	15	<5	N
I6711740	70	<1	N	N	N	20	7	20	N	N	N	<5	N
I6711760	150	<1	N	N	N	20	15	20	N	N	30	<5	N
I6711780	100	1	N	N	<10	30	20	30	N	N	<10	5	N
I6711800	700	N	N	N	N	20	5	15	N	N	10	<5	N
I6711820	100	<1	N	N	N	15	7	20	N	N	N	<5	N
I6711840	100	N	N	N	30	<10	7	10	N	N	N	5	N
I6711860	100	N	N	N	N	<10	7	15	N	N	<10	<5	N
I6711880	70	N	N	N	N	10	7	15	N	N	10	<5	N
I6711900	300	N	N	N	N	<10	5	15	N	N	10	<5	N
I6711920	100	N	N	N	20	<10	5	15	N	N	15	<5	N
I6711940	300	N	N	N	N	<10	5	10	N	N	<10	<5	N
I6711960	500	N	N	N	N	20	7	30	N	N	10	10	N
I6711980	500	<1	N	N	<10	30	15	50	N	N	50	7	N
I6712000	500	N	N	N	<10	50	15	30	N	N	15	15	N
I6712020	500	<1	N	N	10	70	20	50	N	N	20	10	<20
I6712040	300	<1	N	N	<10	30	15	50	N	N	N	<5	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I6710780	10	15	N	N	N	N	N	10	N	N	N	50	<.01	64
I6710800	15	30	N	N	N	N	N	<10	N	N	N	10	.01	64
I6710820	7	20	N	N	N	N	N	<10	100	N	N	N	<.01	64
I6710840	15	30	N	N	N	N	N	15	N	N	N	15	.01	64
I6710860	10	10	N	N	N	N	N	10	N	N	N	<10	.01	64
I6710900	10	15	N	N	N	N	N	<10	<20	N	N	<10	.01	64
I6710920	10	<10	N	N	N	N	N	<10	N	N	N	N	<.01	64
I6710940	20	20	N	N	N	N	N	<10	30	N	N	70	.01	64
I6710960	15	10	N	N	N	N	N	10	20	N	N	10	.02	64
I6710980	15	15	N	N	N	N	N	10	N	N	N	20	.02	64
I6711000	10	20	N	N	N	N	N	<10	<20	N	N	<10	.01	64
I6711020	10	30	N	N	N	N	N	10	N	N	N	30	.02	64
I6711040	10	15	N	N	N	N	N	<10	N	N	N	30	.02	64
I6711060	15	15	N	N	N	N	N	10	N	N	N	30	.02	64
I6711100	20	200	N	N	N	N	N	10	<20	N	N	100	.09	64
I6711120	15	500	N	N	N	N	N	<10	N	N	N	<10	.03	64
I6711140	15	200	N	N	N	<100	N	<10	N	N	N	50	.02	64
I6711160	10	70	N	N	N	N	N	10	N	N	N	70	.02	64
I6711180	15	100	N	N	N	N	N	<10	200	N	N	30	.05	64
I6711200	20	1,000	N	N	N	N	N	N	100	N	N	15	.03	64
I6711220	15	700	N	N	N	300	N	<10	N	N	N	<10	.03	64
I6711240	15	500	N	N	N	N	N	N	100	N	N	<10	.04	64
I6711260	20	1,500	N	N	N	N	N	10	N	N	200	10	.05	64
I6711280	30	700	N	N	N	N	N	<10	200	N	200	15	.03	64
I6711300	10	500	N	N	N	<100	N	<10	50	N	N	20	.03	64
I6711320	20	700	N	N	N	N	N	10	20	N	N	10	.04	64
I6711340	20	500	N	N	N	N	N	<10	50	N	N	10	.03	64
I6711360	15	700	N	N	N	N	N	<10	500	N	N	50	.02	64
I6711380	15	300	N	N	N	N	N	<10	70	N	N	<10	.02	64
I6711400	15	200	200	N	N	<100	N	<10	150	N	N	20	.03	64
I6711420	10	200	N	N	N	N	N	<10	300	N	N	<10	.02	64
I6711440	7	100	N	N	N	N	N	N	50	N	N	N	.02	64
I6711460	7	100	N	N	N	100	N	<10	50	N	N	10	.02	64
I6711480	20	50	N	N	N	200	N	15	<20	N	N	20	.03	66
I6711500	20	150	500	N	N	500	N	15	N	N	N	15	.03	66
I6711540	15	1,000	N	N	N	500	N	20	70	N	N	20	.05	66
I6711570	20	200	N	N	N	<100	N	20	N	N	1,000	30	.12	66
I6711600	20	150	N	<5	N	N	N	30	N	N	1,000	70	.13	66
I6711620	20	700	N	N	N	N	N	15	200	N	2,000	70	.06	66
I6711640	20	1,500	N	N	N	150	N	15	70	N	3,000	50	.11	66
I6711660	15	500	N	N	N	<100	N	10	30	N	1,000	30	.08	66
I6711680	20	200	N	<5	N	N	N	30	N	N	300	70	.16	66
I6711700	20	150	N	<5	N	N	N	30	N	N	700	70	.16	66
I6711720	30	100	N	<5	N	N	N	30	20	N	300	100	.15	66
I6711740	15	100	N	N	N	N	N	20	N	N	500	50	.14	66
I6711760	15	70	N	N	N	N	N	30	<20	N	<200	50	.13	66
I6711780	20	200	N	N	N	N	N	50	50	N	500	70	.17	66
I6711800	10	500	N	N	N	100	N	20	20	N	<200	70	.09	66
I6711820	15	15	N	N	N	N	N	20	70	N	N	50	.08	66
I6711840	15	20	N	N	N	N	N	10	1,000	N	N	50	.04	66
I6711860	10	200	N	N	N	N	N	10	70	N	700	30	.06	66
I6711880	15	20	N	N	N	N	N	15	N	N	300	50	.07	66
I6711900	10	30	N	N	N	N	N	10	N	N	300	30	.06	66
I6711920	10	70	N	N	N	N	N	15	150	N	500	50	.07	72
I6711940	7	15	N	N	N	N	N	10	20	N	300	30	.05	72
I6711960	15	30	N	N	N	N	N	20	N	N	200	50	.12	72
I6711980	20	200	N	N	N	N	N	30	N	N	200	70	.2	72
I6712000	15	15	N	N	N	N	N	30	<20	N	N	50	.12	72
I6712020	30	200	N	<5	N	N	N	50	70	N	200	100	.15	72
I6712040	20	15	N	N	N	N	N	30	N	N	<200	100	.14	72

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6712060	37 20 37	88 51 54	N	1	1	.7	N	.2	N	N	N	150
I6712080	37 20 37	88 51 54	<.05	1.5	1	.7	N	.2	N	N	N	200
I6712100	37 20 37	88 51 54	<.05	1.5	1.5	1.5	N	.5	N	N	N	200
I6712120	37 20 37	88 51 54	N	1	1	1	N	.2	N	N	N	100
I6712140	37 20 37	88 51 54	<.05	1.5	1	1	N	.5	N	N	N	200
I6712160	37 20 37	88 51 54	N	1	1	1.5	N	.3	N	N	N	200
I6712180	37 20 37	88 51 54	N	1.5	1	1	N	.3	N	N	N	150
I6712190	37 20 37	88 51 54	N	1.5	1	1	N	.5	N	N	N	200
I6712220	37 20 37	88 51 54	N	1	.7	1	N	.2	N	N	N	100
I6712240	37 20 37	88 51 54	.05	2	1	1	N	.5	N	N	N	200
I6712260	37 20 37	88 51 54	<.05	1.5	.7	1	N	.3	N	N	N	150
I6712280	37 20 37	88 51 54	.05	2	1	1	N	.5	N	N	N	200
I6712320	37 20 37	88 51 54	.05	2	.7	1.5	N	.3	N	N	N	150
I6712340	37 20 37	88 51 54	<.05	.5	.3	1.5	N	.1	N	N	N	30
I6712360	37 20 37	88 51 54	<.05	1	.5	1.5	N	.2	N	N	N	100
I6712380	37 20 37	88 51 54	.05	2	.7	1.5	N	.2	N	N	N	150
I6712400	37 20 37	88 51 54	<.05	1.5	.5	1.5	N	.2	N	N	N	100
I6712420	37 20 37	88 51 54	<.05	1	.5	1.5	N	.15	N	N	N	70
I6712440	37 20 37	88 51 54	<.05	1	.7	1.5	N	.15	N	N	N	50
I6712480	37 20 37	88 51 54	.05	1.5	.7	1.5	N	.2	N	N	N	50
I6712520	37 20 37	88 51 54	<.05	1	.7	1	N	.1	N	N	N	30
I6712560	37 20 37	88 51 54	<.05	1.5	.7	2	N	.15	N	N	N	20
I6712600	37 20 37	88 51 54	<.05	1	.7	2	N	.15	N	N	N	15
I6712640	37 20 37	88 51 54	<.05	1.5	1	2	N	.2	N	N	N	20
I6712680	37 20 37	88 51 54	<.05	1.5	.7	2	N	.2	N	N	N	50
I6712720	37 20 37	88 51 54	<.05	1	.7	1.5	N	.15	N	N	N	50
I6712760	37 20 37	88 51 54	<.05	1	.5	1.5	N	.15	N	N	N	50
I6712800	37 20 37	88 51 54	N	.7	.3	1.5	N	.15	N	N	N	30
I6712840	37 20 37	88 51 54	<.05	1.5	.5	1.5	N	.2	N	N	N	70
I6712880	37 20 37	88 51 54	<.05	1.5	.7	1.5	N	.3	N	N	N	100
I6712920	37 20 37	88 51 54	N	1	.5	1.5	N	.2	N	N	N	30
I6712960	37 20 37	88 51 54	N	1	.5	1	N	.2	N	N	N	70
I6713000	37 20 37	88 51 54	N	.5	.3	1	N	.15	N	N	N	100
I6713040	37 20 37	88 51 54	N	.7	.2	.5	N	.2	N	N	N	50
I6713080	37 20 37	88 51 54	N	.5	.15	.3	N	.15	N	N	N	50
I6713100	37 20 37	88 51 54	N	.7	.2	.5	N	.2	N	N	N	50

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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
I6712060	200	<1	N	N	<10	30	7	50	N	N	10	N	N
I6712080	200	<1	N	N	10	30	20	30	N	N	<10	<5	N
I6712100	1,000	<1	N	N	15	70	10	50	N	<50	10	<5	N
I6712120	200	N	N	N	<10	30	5	30	N	N	N	N	N
I6712140	500	<1	N	N	15	50	5	50	N	<50	15	N	<20
I6712160	200	1	N	N	<10	20	20	50	N	N	10	N	N
I6712180	300	<1	N	N	10	50		30	N	N	<10	N	N
I6712190	300	1	N	N	10	30	5	30	N	<50	10	N	N
I6712220	200	N	N	N	<10	20	5	20	N	N	N	N	N
I6712240	500	<1	N	N	<10	30	15	30	N	N	<10	<5	<20
I6712260	300	<1	N	N	<10	15	10	50	N	<50	10	<5	N
I6712280	500	1	N	N	30	20	30	30	N	N	<10	5	<20
I6712320	700	<1	N	N	70	20	7	30	N	N	15	<5	<20
I6712340	300	N	N	N	N	<10	<5	15	N	N	N	N	N
I6712360	700	N	N	N	N	15	<5	15	N	N	<10	N	N
I6712380	500	<1	N	N	15	20	15	30	N	N	<10	N	<20
I6712400	700	N	N	N	<10	30	7	20	N	N	<10	N	N
I6712420	500	N	N	N	N	10	<5	10	N	N	N	N	N
I6712440	1,000	N	N	N	N	10	7	20	N	N	N	<5	N
I6712480	700	N	N	N	N	20	<5	20	N	N	<10	N	N
I6712520	500	N	N	N	N	<10	N	10	N	N	N	N	N
I6712560	700	N	N	N	N	<10	<5	15	N	N	N	N	N
I6712600	500	N	N	N	<10	10	5	15	N	N	N	N	N
I6712640	500	N	N	N	N	10	N	20	N	N	<10	N	N
I6712680	700	N	N	N	N	15	20	20	N	N	<10	N	N
I6712720	500	N	N	N	N	10	<5	30	N	N	<10	N	N
I6712760	500	N	N	N	N	<10	<5	20	N	N	<10	N	N
I6712800	300	N	N	N	N	<10	5	15	N	N	N	N	N
I6712840	700	N	N	N	<10	15	<5	20	N	N	<10	N	N
I6712880	700	N	N	N	<10	15	15	20	N	N	10	N	N
I6712920	700	N	N	N	<10	20	5	30	N	N	N	N	N
I6712960	500	N	N	N	N	15	7	20	N	N	N	N	N
I6713000	300	N	N	N	N	<10	10	15	N	N	N	N	N
I6713040	500	N	N	N	N	<10	10	10	N	N	N	N	N
I6713080	300	N	N	N	N	N	<5	7	N	N	N	N	N
I6713100	700	N	N	N	N	10	5	15	N	N	N	N	N

TABLE 39--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I67, 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 #
I6712060	15	10	N	N	N	N	N	30	N	N	<200	70	.13	72
I6712080	20	10	N	N	N	N	N	30	200	N	N	70	.11	72
I6712100	20	<10	N	<5	N	N	N	50	N	N	N	100	.09	72
I6712120	15	<10	N	N	N	N	N	30	N	N	N	70	.06	72
I6712140	20	10	N	<5	N	N	N	50	N	N	N	150	.06	72
I6712160	15	200	N	N	N	N	N	30	<20	N	N	70	.07	72
I6712180	20	<10	N	<5	N	N	N	50	N	N	N	100	.07	72
I6712190	20	15	N	<5	N	N	N	50	N	N	N	100	.07	72
I6712220	10	10	N	N	N	N	N	30	N	N	N	70	.06	72
I6712240	20	<10	N	<5	N	N	N	70	N	N	N	200	.07	72
I6712260	10	10	N	N	N	N	N	30	50	N	N	150	.07	72
I6712280	20	<10	N	<5	N	N	N	50	500	N	N	200	.08	72
I6712320	15	15	N	N	N	N	N	30	100	N	N	150	.1	72
I6712340	5	<10	N	N	N	N	N	10	N	N	N	100	.04	72
I6712360	7	<10	N	N	N	N	N	20	N	N	N	500	.04	72
I6712380	10	20	N	N	N	N	N	30	700	N	N	150	.09	72
I6712400	7	10	N	N	N	N	N	30	50	N	N	150	.07	72
I6712420	5	<10	N	N	N	N	N	20	N	N	N	300	.05	72
I6712440	7	10	N	N	N	N	N	20	N	N	N	150	.06	72
I6712480	7	<10	N	N	N	N	N	20	N	N	N	200	.04	72
I6712520	5	20	N	N	N	N	N	10	<20	N	N	100	.03	72
I6712560	7	<10	N	N	N	N	N	15	N	N	N	200	.03	72
I6712600	5	15	N	N	N	N	N	15	50	N	N	300	.03	72
I6712640	7	<10	N	N	N	N	N	20	N	N	N	300	.03	72
I6712680	10	<10	N	N	N	N	N	20	20	N	N	150	.03	72
I6712720	5	30	N	N	N	N	N	20	N	N	N	300	.04	72
I6712760	5	10	N	N	N	N	N	15	N	N	N	200	.02	72
I6712800	5	<10	N	N	N	N	N	10	<20	N	N	150	.03	72
I6712840	10	N	N	N	N	N	N	30	N	N	N	300	.04	72
I6712880	10	<10	N	N	N	N	N	30	N	N	N	500	.04	72
I6712920	7	<10	N	N	N	N	N	15	N	N	N	200	.03	72
I6712960	7	N	N	N	N	N	N	20	<20	N	N	200	.03	72
I6713000	7	<10	N	N	N	N	N	20	20	N	N	200	.03	72
I6713040	5	N	N	N	N	N	N	20	N	N	N	300	.03	72
I6713080	5	N	N	N	N	N	N	15	N	<10	N	500	.03	74
I6713100	7	<10	N	N	N	N	N	20	N	<10	N	300	.04	74

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I680330	37 47 36	88 49 16	N	2	.7	1	N	.2	N	N	N	50
I680350	37 47 36	88 49 16	N	2	.7	.7	N	.3	N	N	N	70
I680370	37 47 36	88 49 16	N	1	1	1	N	.5	N	N	N	70
I680390	37 47 36	88 49 16	N	1	1	1.5	N	.5	N	N	N	50
I680410	37 47 36	88 49 16	N	1.5	1.5	1.5	N	.7	N	N	N	70
I680430	37 47 36	88 49 16	N	1.5	1	1	N	.5	N	N	N	70
I680450	37 47 36	88 49 16	N	2	.7	1	N	.5	N	N	N	50
I680470	37 47 36	88 49 16	N	1.5	.7	1	N	.5	N	N	N	30
I680490	37 47 36	88 49 16	N	1	.7	1	N	.5	N	N	N	100
I680510	37 47 36	88 49 16	N	1.5	.5	1	N	.5	N	N	N	100
I680540	37 47 36	88 49 16	N	2	1	1	N	.7	N	N	N	100
I680580	37 47 36	88 49 16	N	1.5	.5	1	N	.5	N	N	N	50
I680620	37 47 36	88 49 16	N	2	.5	1	N	.5	N	N	N	70
I680660	37 47 36	88 49 16	N	1	.3	.7	N	.2	N	N	N	70
I680700	37 47 36	88 49 16	N	1.5	.5	1	N	.3	N	N	N	30
I680720	37 47 36	88 49 16	N	2	1	1.5	N	.3	.7	N	N	30
I680740	37 47 36	88 49 16	<.05	5	1	1.5	N	.7	N	N	N	50
I680760	37 47 36	88 49 16	N	2	.5	1	N	.3	N	N	N	15
I680780	37 47 36	88 49 16	N	3	.7	2	N	.5	N	N	N	20
I680800	37 47 36	88 49 16	N	5	1	2	N	.5	N	N	N	30
I680820	37 47 36	88 49 16	<.05	7	1	2	N	.5	N	N	N	50
I680840	37 47 36	88 49 16	N	3	.7	1.5	N	.3	N	N	N	30
I680860	37 47 36	88 49 16	N	10	.7	1.5	N	.3	N	N	N	20
I680880	37 47 36	88 49 16	N	7	1	1.5	N	.5	N	N	N	50
I680900	37 47 36	88 49 16	N	7	1	1.5	N	.3	N	N	N	30
I680920	37 47 36	88 49 16	N	5	1	1.5	N	.3	N	N	N	15
I680940	37 47 36	88 49 16	N	7	.7	1.5	N	.3	N	N	N	50
I680960	37 47 36	88 49 16	N	3	.3	.7	N	.3	N	N	N	15
I680980	37 47 36	88 49 16	N	2	.2	.3	N	.2	N	N	N	<10
I681000	37 47 36	88 49 16	N	3	.2	<.2	N	.2	N	N	N	10
I681020	37 47 36	88 49 16	N	2	.15	<.2	N	.15	N	N	N	<10
I681040	37 47 36	88 49 16	N	1	.1	.7	N	.15	N	N	N	N
I681060	37 47 36	88 49 16	N	3	.2	.3	N	.15	N	N	N	10
I681080	37 47 36	88 49 16	N	1.5	.1	N	N	.1	N	N	N	N
I681100	37 47 36	88 49 16	N	2	1	.2	N	.5	N	N	N	70
I681120	37 47 36	88 49 16	N	1.5	1	.2	N	.5	N	N	N	100
I681140	37 47 36	88 49 16	N	1.5	.7	<.2	N	.5	N	N	N	50
I681160	37 47 36	88 49 16	N	3	.2	N	N	.3	.7	N	N	30
I681180	37 47 36	88 49 16	N	.1	.02	N	N	.02	N	N	N	N
I681200	37 47 36	88 49 16	N	.1	.02	N	N	.03	N	N	N	N
I681220	37 47 36	88 49 16	N	.15	.02	N	N	.02	N	N	N	N
I681240	37 47 36	88 49 16	N	.1	<.02	N	N	.01	N	N	N	N
I681260	37 47 36	88 49 16	N	.1	.02	N	N	.015	N	N	N	N
I681280	37 47 36	88 49 16	N	.07	<.02	N	N	.015	N	N	N	N
I681300	37 47 36	88 49 16	N	.1	.02	N	N	.03	N	N	N	N
I681320	37 47 36	88 49 16	N	.7	.2	N	N	.2	N	N	N	30
I681340	37 47 36	88 49 16	N	1	.5	N	N	.5	N	N	N	70
I681360	37 47 36	88 49 16	N	1	.3	<.2	N	.3	N	N	N	50
I681380	37 47 36	88 49 16	N	2	1	.2	N	.5	N	N	N	50
I681400	37 47 36	88 49 16	N	1	.3	N	N	.3	N	N	N	30
I681420	37 47 36	88 49 16	N	1	.3	N	N	.3	N	N	N	30
I681440	37 47 36	88 49 16	N	.7	.05	N	N	.15	N	N	N	20
I681460	37 47 36	88 49 16	N	.2	.03	N	N	.07	N	N	N	<10
I681480	37 47 36	88 49 16	N	.7	.15	N	N	.3	N	N	N	20
I681500	37 47 36	88 49 16	N	1	.1	N	N	.2	N	N	N	15
I681520	37 47 36	88 49 16	.07	5	1.5	<.2	N	.3	N	N	N	70
I681540	37 47 36	88 49 16	1.5	7	2	.2	N	.5	N	N	N	100
I681560	37 47 36	88 49 16	.1	3	1	.2	N	.2	N	N	N	30
I681580	37 47 36	88 49 16	N	5	1	.7	N	.3	N	N	N	30
I681600	37 47 36	88 49 16	N	.7	.15	.2	N	.2	N	N	N	10

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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
I680330	150	1	N	N	N	20	10	30	N	N	50	N	N
I680350	200	1	N	N	<10	30	7	20	N	N	30	N	N
I680370	500	1	N	N	<10	30	5	30	N	N	20	N	N
I680390	300	1.5	N	N	<10	50	7	70	N	<50	30	N	N
I680410	500	1.5	N	N	<10	50	10	50	N	N	50	N	<20
I680430	300	1	N	N	<10	100	30	50	N	N	30	7	N
I680450	200	1	N	N	<10	30	15	30	N	N	50	<5	<20
I680470	150	1	N	N	N	50	5	30	N	N	20	N	<20
I680490	300	1.5	N	N	N	20	7	50	N	N	50	N	<20
I680510	300	1.5	N	N	N	30	30	30	N	<50	20	N	<20
I680540	500	2	N	N	<10	70	20	50	N	50	30	<5	<20
I680580	200	1	N	N	N	20	15	30	N	<50	15	N	<20
I680620	300	1	N	N	N	30	15	20	N	<50	20	N	<20
I680660	150	<1	N	N	<10	15	7	15	N	N	15	N	N
I680700	150	<1	N	N	N	50	20	30	N	N	20	30	N
I680720	200	<1	N	N	<10	30	20	30	N	N	70	7	<20
I680740	500	1.5	N	N	15	70	50	70	N	50	150	N	<20
I680760	100	N	N	N	N	15	30	15	N	N	30	N	N
I680780	200	<1	N	N	10	20	15	30	N	N	70	N	N
I680800	300	1.5	N	N	10	30	30	50	N	<50	100	N	<20
I680820	300	1	N	N	15	50	50	50	N	<50	200	<5	<20
I680840	200	<1	N	N	10	30	30	30	N	N	50	N	N
I680860	200	<1	N	N	<10	20	30	30	N	N	50	N	<20
I680880	500	<1	N	N	10	70	30	50	N	N	150	N	<20
I680900	300	<1	N	N	15	70	30	50	N	N	200	N	N
I680920	300	<1	N	N	10	70	50	50	N	N	150	N	N
I680940	300	<1	N	N	10	50	30	50	N	N	200	N	<20
I680960	150	N	N	N	<10	30	15	10	N	N	50	N	N
I680980	100	N	N	N	N	20	5	5	N	N	70	N	N
I681000	70	N	N	N	N	30	7	5	N	N	100	N	N
I681020	70	N	N	N	N	<10	<5	N	N	N	300	N	N
I681040	100	N	N	N	N	N	<5	N	N	N	50	N	N
I681060	100	N	N	N	<10	<10	5	<5	N	N	500	N	N
I681080	50	N	N	N	N	N	<5	N	N	N	200	N	N
I681100	300	3	N	N	10	150	30	70	N	<50	70	N	<20
I681120	1,000	2	N	N	10	100	20	50	N	<50	50	N	N
I681140	700	<1	N	N	10	70	20	30	N	N	30	N	N
I681160	200	N	N	N	15	20	20	7	N	N	20	N	N
I681180	N	N	N	N	N	N	N	N	N	N	N	N	N
I681200	<20	N	N	N	N	<10	N	N	N	N	N	N	N
I681220	<20	N	N	N	N	N	N	N	N	N	N	N	N
I681240	N	N	N	N	N	N	N	N	N	N	N	N	N
I681260	20	N	N	N	N	N	N	N	N	N	N	N	N
I681280	N	N	N	N	N	N	N	N	N	N	N	N	N
I681300	N	N	N	N	N	N	N	N	N	N	N	N	N
I681320	150	1	N	N	<10	15	<5	10	N	N	<10	N	N
I681340	300	2	N	N	<10	20	7	20	N	<50	30	N	N
I681360	200	1.5	N	N	<10	20	30	30	N	N	30	N	N
I681380	1,000	1	N	N	10	70	20	50	N	N	30	N	N
I681400	100	<1	N	N	N	20	5	20	N	N	10	N	N
I681420	300	<1	N	N	N	20	10	7	N	N	15	N	N
I681440	70	N	N	N	N	<10	N	N	N	N	10	N	N
I681460	20	N	N	N	N	N	N	N	N	N	N	N	N
I681480	100	N	N	N	N	<10	5	N	N	N	15	N	N
I681500	30	N	N	N	N	N	15	N	N	N	10	N	N
I681520	200	1	N	N	10	70	50	50	N	N	300	15	N
I681540	150	N	N	N	<10	50	20	30	N	N	50	N	N
I681560	100	N	N	N	<10	30	10	30	N	N	30	N	N
I681580	150	<1	N	N	10	70	15	50	N	N	30	<5	N
I681600	20	N	N	N	N	20	<5	N	N	N	<10	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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 #
I680330	10	10	N	<5	N	N	N	50	N	N	N	70	.04	1
I680350	15	10	N	<5	N	N	N	70	N	N	N	70	.05	1
I680370	10	10	N	<5	N	N	N	70	N	N	N	70	.05	1
I680390	10	10	N	5	N	N	N	100	N	N	N	70	.04	1
I680410	15	10	N	7	N	N	N	100	N	<10	N	100	.04	1
I680430	30	<10	N	7	N	N	N	150	N	N	N	70	.06	1
I680450	20	10	N	<5	N	N	N	100	N	N	N	100	.03	1
I680470	15	N	N	5	N	N	N	100	N	<10	N	100	.03	1
I680490	15	<10	N	<5	N	N	N	100	N	<10	<200	100	.02	1
I680510	15	N	N	5	N	N	N	100	N	<10	N	150	.03	1
I680540	20	<10	N	7	N	<100	N	200	N	<10	N	100	.04	1
I680580	10	10	N	<5	N	N	N	100	N	N	<200	100	.03	1
I680620	15	N	N	<5	N	N	N	100	N	<10	N	100	.03	1
I680660	15	N	N	N	N	N	N	70	N	N	N	100	.02	1
I680700	20	15	N	<5	N	N	N	150	N	N	N	70	.03	1
I680720	15	10	N	<5	N	N	N	100	N	<10	N	70	.03	1
I680740	20	15	N	7	N	N	N	100	N	10	N	100	.03	1
I680760	7	<10	N	N	N	N	N	50	N	N	N	50	.01	1
I680780	15	10	N	<5	N	N	N	70	N	<10	N	100	.02	1
I680800	20	15	N	5	N	N	N	100	N	<10	N	150	.02	1
I680820	30	30	N	7	N	N	N	100	N	10	N	150	.02	1
I680840	20	15	N	<5	N	N	N	50	N	N	N	100	.02	1
I680860	20	15	N	<5	N	N	N	50	N	N	N	100	.02	1
I680880	50	10	N	5	N	N	N	100	N	<10	N	200	.02	1
I680900	30	10	N	5	N	N	N	70	N	<10	N	100	.02	1
I680920	30	15	N	<5	N	N	N	70	N	N	N	150	.02	1
I680940	30	15	N	<5	N	N	N	100	N	<10	N	100	.02	1
I680960	10	N	N	N	N	N	N	30	N	N	N	200	<.01	1
I680980	5	N	N	N	N	N	N	15	N	N	N	500	<.01	1
I681000	5	<10	N	N	N	N	N	20	N	N	N	150	<.01	1
I681020	<5	N	N	N	N	N	N	10	N	N	N	100	<.01	1
I681040	N	N	N	N	N	N	N	15	N	N	N	100	<.01	1
I681060	7	N	N	N	N	N	N	15	N	N	N	150	<.01	1
I681080	<5	N	N	N	N	N	N	10	N	N	N	70	<.01	1
I681100	30	10	N	7	N	N	N	70	N	<10	N	100	.03	1
I681120	30	10	N	7	N	N	N	100	N	<10	N	70	.03	1
I681140	20	<10	N	5	N	N	N	70	N	N	N	100	.02	1
I681160	50	<10	N	<5	N	N	N	50	<20	N	N	200	<.01	1
I681180	N	N	N	N	N	N	N	N	N	N	N	50	<.01	1
I681200	N	N	N	N	N	N	N	N	N	N	N	70	<.01	1
I681220	N	N	N	N	N	N	N	N	N	N	N	70	<.01	1
I681240	N	N	N	N	N	N	N	N	N	N	N	15	<.01	1
I681260	N	N	N	N	N	N	N	N	N	N	N	20	<.01	1
I681280	N	N	N	N	N	N	N	N	N	N	N	30	<.01	1
I681300	N	N	N	N	N	N	N	N	N	N	N	15	<.01	1
I681320	10	N	N	N	N	N	N	50	N	N	N	70	.01	1
I681340	20	N	N	<5	N	N	N	100	N	<10	N	200	.02	1
I681360	15	N	N	<5	N	N	N	100	N	N	N	70	.02	1
I681380	20	<10	N	5	N	N	N	100	N	N	N	70	.02	1
I681400	7	N	N	N	N	N	N	50	N	N	N	150	.03	1
I681420	10	N	N	N	N	N	N	70	N	N	N	300	.02	1
I681440	<5	N	N	N	N	N	N	15	N	N	N	200	<.01	1
I681460	N	N	N	N	N	N	N	<10	N	N	N	150	<.01	1
I681480	<5	N	N	N	N	N	N	30	N	N	N	300	.01	1
I681500	5	N	N	N	N	N	N	15	N	N	N	100	.01	2
I681520	30	100	N	<5	N	N	N	70	N	<10	N	100	.11	2
I681540	30	30	N	N	N	N	N	100	N	N	200	150	.09	2
I681560	10	10	N	<5	N	N	N	50	N	N	N	30	.1	2
I681580	20	15	N	<5	N	N	N	100	N	N	N	50	.11	2
I681600	<5	N	N	N	N	N	N	15	N	N	N	500	.01	2

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I681620	37 47 36	88 49 16	N	1	.2	.5	N	.3	N	N	N	15
I681640	37 47 36	88 49 16	N	1	.2	.5	N	.3	N	N	N	20
I681660	37 47 36	88 49 16	.05	1.5	.3	.7	N	.3	N	N	N	50
I681680	37 47 36	88 49 16	<.05	2	.3	.7	N	.3	N	N	N	30
I681700	37 47 36	88 49 16	N	.7	.15	.3	N	.3	N	N	N	15
I681720	37 47 36	88 49 16	<.05	2	1	.5	N	.5	N	N	N	70
I681740	37 47 36	88 49 16	N	1	.2	<.2	N	.2	N	N	N	30
I681760	37 47 36	88 49 16	N	1.5	.7	.3	N	.2	N	N	N	50
I681780	37 47 36	88 49 16	N	1	.3	.5	N	.3	N	N	N	30
I681800	37 47 36	88 49 16	N	1.5	.3	1	N	.3	N	N	N	30
I681820	37 47 36	88 49 16	<.05	1.5	.5	.5	N	.2	N	N	N	30
I681840	37 47 36	88 49 16	1	3	2	.7	N	.3	N	N	N	70
I681860	37 47 36	88 49 16	.5	2	2	.7	N	.2	N	N	N	30
I681880	37 47 36	88 49 16	.05	3	3	1.5	N	.2	N	N	N	70
I681900	37 47 36	88 49 16	.15	5	3	1	N	.3	N	N	N	50
I681920	37 47 36	88 49 16	.07	7	2	1	N	.2	N	N	N	30
I681940	37 47 36	88 49 16	.05	5	1.5	.7	N	.3	N	N	N	50
I681960	37 47 36	88 49 16	.05	5	1.5	1.5	N	.3	N	N	N	70
I681980	37 47 36	88 49 16	.07	5	2	1	N	.5	N	N	N	100
I682000	37 47 36	88 49 16	<.05	5	1	.7	N	.5	N	N	N	70
I682020	37 47 36	88 49 16	<.05	3	1	1	N	.5	N	N	N	100
I682040	37 47 36	88 49 16	N	1	.2	.5	N	.3	N	N	N	20
I682060	37 47 36	88 49 16	N	1.5	.3	.3	N	.3	N	N	N	30
I682080	37 47 36	88 49 16	N	2	.5	.2	N	.3	N	N	N	50
I682100	37 47 36	88 49 16	.05	3	1	1	N	.5	N	N	N	50
I682120	37 47 36	88 49 16	<.05	2	.7	.7	N	.3	N	N	N	50
I682140	37 47 36	88 49 16	<.05	1.5	.5	1	N	.3	N	N	N	50
I682160	37 47 36	88 49 16	N	1	.2	.7	N	.2	N	N	N	15
I682180	37 47 36	88 49 16	N	1.5	.7	.7	N	.5	N	N	N	50
I682200	37 47 36	88 49 16	<.05	5	1	1	N	.3	N	N	N	30
I682220	37 47 36	88 49 16	.07	3	1	.7	N	.5	N	N	N	70
I682240	37 47 36	88 49 16	.1	3	1.5	.7	N	.3	N	N	N	70
I682260	37 47 36	88 49 16	.07	2	1.5	1	N	.3	N	N	N	50
I682280	37 47 36	88 49 16	.07	5	3	1	N	.5	N	N	N	70
I682300	37 47 36	88 49 16	.05	3	2	.7	N	.3	N	N	N	50
I682320	37 47 36	88 49 16	.07	3	1.5	.7	N	.2	N	N	N	70
I682340	37 47 36	88 49 16	.05	5	1	1	N	.2	N	N	N	50
I682360	37 47 36	88 49 16	<.05	1.5	.5	.3	N	.15	N	N	N	20
I682380	37 47 36	88 49 16	N	1	.15	.2	N	.15	N	N	N	15
I682400	37 47 36	88 49 16	N	1.5	.7	.2	N	.3	N	N	N	30
I682420	37 47 36	88 49 16	N	2	.7	.5	N	.2	N	N	N	30
I682440	37 47 36	88 49 16	<.05	3	1	.7	N	.3	N	N	N	50
I682460	37 47 36	88 49 16	.05	2	.7	1	N	.3	N	N	N	30
I682480	37 47 36	88 49 16	<.05	1.5	.5	.5	N	.2	N	N	N	30
I682500	37 47 36	88 49 16	N	1.5	.3	.2	N	.2	N	N	N	15
I682520	37 47 36	88 49 16	<.05	2	1	.5	N	.3	N	N	N	70
I682540	37 47 36	88 49 16	.07	5	2	1	N	.3	N	N	N	100
I682560	37 47 36	88 49 16	.05	5	2	1	N	.3	N	N	N	70
I682580	37 47 36	88 49 16	.05	7	1.5	.7	N	.3	N	N	N	70
I682600	37 47 36	88 49 16	N	5	1.5	1	N	.3	N	N	N	50
I682620	37 47 36	88 49 16	N	2	.7	.5	N	.2	N	N	N	30
I682650	37 47 36	88 49 16	.1	3	2	1.5	N	.3	N	N	N	100
I682680	37 47 36	88 49 16	N	2	1	.7	N	.2	N	N	N	50
I682700	37 47 36	88 49 16	.07	2	1	.3	N	.2	N	N	N	70
I682720	37 47 36	88 49 16	.05	3	1.5	.5	N	.5	N	N	N	70
I682740	37 47 36	88 49 16	.07	5	2	1	N	.5	N	N	N	100
I682760	37 47 36	88 49 16	.1	7	2	1	N	.5	N	N	N	100
I682780	37 47 36	88 49 16	.07	5	2	.7	N	.3	N	N	N	70
I682800	37 47 36	88 49 16	.07	7	2	1	N	.3	N	N	N	50
I682820	37 47 36	88 49 16	<.05	3	1.5	1	N	.3	N	N	N	50

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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
I681620	70	N	N	N	N	30	20	10	N	N	<10	N	N
I681640	30	N	N	N	<10	30	7	10	N	N	<10	N	N
I681660	500	N	N	N	N	20	7	10	N	N	20	N	N
I681680	200	N	N	N	N	30	10	10	N	N	15	N	N
I681700	30	N	N	N	N	15	5	<5	N	N	<10	N	N
I681720	200	1	N	N	<10	15	15	30	N	<50	15	N	N
I681740	30	N	N	N	N	20	5	<5	N	N	20	N	N
I681760	50	<1	N	N	N	30	5	15	N	N	20	N	N
I681780	200	N	N	N	N	20	5	10	N	N	10	N	N
I681800	70	N	N	N	<10	20	30	7	N	N	10	N	<20
I681820	300	<1	N	N	N	30	10	20	N	N	15	N	N
I681840	500	1.5	N	N	10	70	30	70	N	N	100	<5	N
I681860	100	<1	N	N	<10	50	15	30	N	N	15	N	N
I681880	300	1	N	N	10	150	20	70	N	N	20	N	N
I681900	300	<1	N	N	10	150	15	70	N	N	70	<5	N
I681920	300	N	N	N	<10	70	15	50	N	N	20	<5	N
I681940	150	<1	N	N	<10	50	20	50	N	N	15	N	N
I681960	100	<1	N	N	<10	70	15	30	N	N	20	N	N
I681980	150	1	N	N	<10	70	15	70	N	<50	30	N	N
I682000	100	<1	N	N	<10	100	30	50	N	<50	20	N	N
I682020	150	1.5	N	N	10	100	20	50	N	<50	30	N	N
I682040	30	N	N	N	N	30	7	7	N	N	<10	N	N
I682060	50	N	N	N	N	50	10	10	N	N	10	N	N
I682080	50	N	N	N	N	20	<5	7	N	N	10	N	N
I682100	70	<1	N	N	<10	150	15	50	N	<50	15	N	N
I682120	70	N	N	N	N	30	10	10	N	N	10	N	N
I682140	70	N	N	N	<10	50	7	15	N	N	10	N	N
I682160	20	N	N	N	N	50	<5	5	N	N	<10	N	N
I682180	70	N	N	N	<10	70	50	15	N	<50	10	N	N
I682200	50	N	N	N	<10	30	7	30	N	N	15	N	N
I682220	100	1	N	N	10	150	10	50	N	<50	15	N	N
I682240	300	<1	N	N	10	100	20	50	N	N	20	N	N
I682260	150	<1	N	N	10	100	15	70	N	<50	15	N	N
I682280	300	1.5	N	N	15	150	30	100	N	<50	20	N	N
I682300	500	1	N	N	15	100	50	70	N	N	20	N	N
I682320	150	1	N	N	10	150	10	50	N	N	15	N	N
I682340	200	<1	N	N	10	100	15	70	N	N	20	N	N
I682360	50	N	N	N	N	70	<5	5	N	N	10	N	N
I682380	<20	N	N	N	N	10	20	N	N	N	<10	N	N
I682400	30	N	N	N	<10	50	<5	15	N	N	10	N	N
I682420	30	N	N	N	<10	30	<5	20	N	N	<10	N	N
I682440	150	<1	N	N	<10	70	10	30	N	N	15	N	N
I682460	70	N	N	N	N	50	5	20	N	N	15	N	N
I682480	20	N	N	N	N	15	<5	10	N	N	10	N	N
I682500	20	N	N	N	N	20	<5	7	N	N	15	N	N
I682520	70	1	N	N	<10	70	15	15	N	N	10	N	N
I682540	150	1	N	N	10	100	15	70	N	<50	15	N	N
I682560	100	<1	N	N	10	100	10	50	N	N	15	N	N
I682580	70	<1	N	N	10	70	10	30	N	N	30	N	N
I682600	50	<1	N	N	10	70	5	30	N	N	10	N	N
I682620	100	N	N	N	N	30	<5	20	N	N	<10	N	N
I682650	100	1	N	N	10	100	7	50	N	<50	20	N	N
I682680	70	<1	N	N	10	50	30	30	N	N	10	N	N
I682700	500	<1	N	N	<10	70	5	20	N	N	15	N	N
I682720	100	1	N	N	10	100	7	50	N	N	20	N	N
I682740	300	2	N	N	<10	150	15	70	N	<50	20	N	N
I682760	150	1.5	N	N	10	150	10	70	N	<50	20	N	N
I682780	100	1	N	N	10	200	15	70	N	N	15	N	N
I682800	100	<1	N	N	10	150	7	100	N	N	150	N	N
I682820	70	<1	N	N	<10	100	5	50	N	N	15	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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 #
I681620	5	N	N	N	N	N	N	30	N	<10	N	200	.02	2
I681640	5	N	N	N	N	N	N	20	N	N	N	150	.02	2
I681660	7	N	N	<5	N	N	N	30	N	N	N	100	.02	2
I681680	7	<10	N	<5	N	N	N	30	N	<10	N	200	.02	2
I681700	<5	N	N	N	N	N	N	20	N	N	N	150	.01	2
I681720	15	N	N	5	N	N	N	70	N	<10	N	70	.03	2
I681740	7	N	N	N	N	N	N	20	N	N	N	70	.02	2
I681760	10	<10	N	<5	N	N	N	50	N	N	N	100	.02	2
I681780	5	N	N	<5	N	N	N	30	N	<10	N	150	.01	2
I681800	10	N	N	<5	N	N	N	20	N	<10	N	200	<.01	2
I681820	10	N	N	<5	N	N	N	30	N	N	N	70	.03	2
I681840	50	30	N	7	N	N	N	50	N	N	<200	70	.07	2
I681860	15	<10	N	<5	N	N	N	30	N	N	N	50	.09	2
I681880	15	10	N	5	N	N	N	50	N	<10	N	30	.1	2
I681900	30	10	N	7	N	N	N	70	N	<10	<200	50	.08	2
I681920	30	10	N	<5	N	N	N	50	N	N	<200	50	.07	2
I681940	20	15	N	<5	N	N	N	50	N	N	N	70	.04	2
I681960	20	<10	N	5	N	N	N	50	N	N	N	70	.04	2
I681980	20	10	N	7	N	N	N	70	N	<10	N	100	.04	2
I682000	30	10	N	7	N	N	N	70	N	<10	N	100	.04	2
I682020	30	10	N	7	N	N	N	70	N	<10	N	150	.03	2
I682040	<5	N	N	N	N	N	N	20	N	N	N	200	.01	2
I682060	7	N	N	N	N	N	N	30	N	N	N	100	.01	2
I682080	10	N	N	N	N	N	N	30	N	N	N	150	.02	2
I682100	15	15	N	5	N	N	N	70	N	N	N	70	.04	2
I682120	10	N	N	<5	N	N	N	50	N	N	N	200	.02	2
I682140	10	N	N	N	N	N	N	30	N	N	N	150	.03	2
I682160	<5	N	N	N	N	N	N	20	N	N	N	500	.01	2
I682180	10	<10	N	<5	N	N	N	50	<20	N	N	300	.02	2
I682200	20	<10	N	<5	N	N	N	50	N	N	N	100	.03	2
I682220	15	10	N	5	N	N	N	70	<20	N	N	70	.07	2
I682240	30	<10	N	5	N	N	N	70	N	N	N	70	.07	2
I682260	15	<10	N	5	N	N	N	50	N	N	N	70	.07	2
I682280	20	<10	N	7	N	N	N	70	<20	N	N	70	.07	2
I682300	20	<10	N	5	N	N	N	70	<20	N	N	50	.07	2
I682320	20	<10	N	5	N	N	N	100	N	N	N	50	.03	2
I682340	30	10	N	<5	N	N	N	70	N	N	N	70	.04	2
I682360	10	N	N	N	N	N	N	30	N	N	N	150	.02	2
I682380	<5	N	N	N	N	N	N	15	N	N	N	200	.01	2
I682400	10	N	N	<5	N	N	N	50	N	N	N	150	.02	2
I682420	15	<10	N	<5	N	N	N	50	N	N	N	70	.02	2
I682440	15	N	N	<5	N	N	N	70	N	N	N	50	.03	2
I682460	10	N	N	N	N	N	N	30	N	N	N	200	.03	2
I682480	5	100	N	N	N	N	N	20	N	N	N	30	.02	2
I682500	7	150	N	N	N	N	N	20	N	N	N	150	.02	2
I682520	15	N	N	<5	N	N	N	70	N	N	N	100	.03	2
I682540	30	<10	N	5	N	N	N	100	N	<10	N	70	.04	2
I682560	30	<10	N	5	N	N	N	100	N	<10	N	70	.05	2
I682580	20	<10	N	<5	N	N	N	70	N	N	N	50	.05	2
I682600	20	N	N	<5	N	N	N	50	N	N	N	50	.05	2
I682620	10	N	N	N	N	N	N	30	N	N	N	150	.03	2
I682650	20	10	N	7	N	N	N	70	N	<10	N	50	.05	2
I682680	15	N	N	<5	N	N	N	50	N	N	N	30	.05	2
I682700	10	N	N	<5	N	N	N	50	N	N	N	50	.04	2
I682720	30	<10	N	7	N	N	N	100	N	<10	N	50	.05	2
I682740	50	<10	N	7	N	N	N	150	N	<10	N	70	.05	2
I682760	50	<10	N	7	N	N	N	100	N	<10	N	70	.05	2
I682780	50	10	N	5	N	N	N	100	N	N	N	70	.07	2
I682800	30	10	N	5	N	N	N	70	N	N	N	30	.07	2
I682820	20	<10	N	<5	N	N	N	70	N	N	N	30	.07	2

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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
I682840	37 47 36	88 49 16	.05	2	1.5	1	N	.3	N	N	N	70
I682860	37 47 36	88 49 16	.5	7	2	1	N	.5	N	N	N	100
I682880	37 47 36	88 49 16	.15	5	1.5	1	N	.3	N	N	N	70
I682900	37 47 36	88 49 16	.07	3	1.5	1	N	.2	N	N	N	30
I682920	37 47 36	88 49 16	.2	3	2	.7	N	.3	N	N	N	70
I682940	37 47 36	88 49 16	.2	3	2	1	N	.3	N	N	N	50
I682960	37 47 36	88 49 16	.05	3	1.5	.7	N	.3	N	N	N	50
I682980	37 47 36	88 49 16	.3	1.5	.7	.2	N	.2	N	N	N	30
I683000	37 47 36	88 49 16	.2	2	1	.3	N	.3	N	N	N	50
I683020	37 47 36	88 49 16	.15	1.5	.7	.5	N	.15	N	N	N	20
I683040	37 47 36	88 49 16	.1	3	1.5	1	N	.5	N	N	N	50
I683060	37 47 36	88 49 16	.15	5	1.5	.7	N	.3	N	N	N	30
I683080	37 47 36	88 49 16	.7	2	2	.3	N	.3	N	N	N	70
I683100	37 47 36	88 49 16	.5	1.5	1	.5	N	.15	N	N	N	50
I683120	37 47 36	88 49 16	.3	2	1	.3	N	.2	<.5	N	N	30
I683140	37 47 36	88 49 16	.3	5	1	.3	N	.3	N	N	N	70
I683160	37 47 36	88 49 16	.7	10	1	.3	N	.5	N	N	N	50
I683180	37 47 36	88 49 16	.15	3	.7	.7	N	.2	N	N	N	30
I683200	37 47 36	88 49 16	.07	7	1.5	.7	N	.5	N	N	N	50
I683220	37 47 36	88 49 16	.7	5	1.5	.7	N	.3	N	N	N	30
I683240	37 47 36	88 49 16	.1	7	1.5	1	N	.5	N	N	N	70
I683260	37 47 36	88 49 16	.2	7	2	1	N	.5	N	N	N	70
I683280	37 47 36	88 49 16	1.5	7	2	.7	N	.5	N	N	N	100
I683300	37 47 36	88 49 16	.1	5	1	.5	N	.3	N	N	N	50
I683320	37 47 36	88 49 16	.15	5	1	.7	N	.3	N	N	N	30
I683340	37 47 36	88 49 16	.2	3	1.5	.5	N	.5	N	N	N	70
I683360	37 47 36	88 49 16	2	3	1.5	.5	N	.3	N	N	N	70
I683380	37 47 36	88 49 16	.7	5	1	.7	N	.3	N	N	N	70
I683400	37 47 36	88 49 16	1	7	2	1	N	.7	N	N	N	100
I683420	37 47 36	88 49 16	.7	5	1	.3	N	.5	N	N	N	50
I683440	37 47 36	88 49 16	.5	3	1.5	.3	N	.3	N	N	N	50
I683460	37 47 36	88 49 16	.3	5	1	.3	N	.5	N	N	N	70
I683460	37 47 36	88 49 16	.2	7	1.5	1	N	.3	N	N	N	50
I683480	37 47 36	88 49 16	.3	10	1	.5	<.2	.3	<.5	N	N	70
I683500	37 47 36	88 49 16	.2	3	1.5	.7	N	.5	N	N	N	70
I683520	37 47 36	88 49 16	.2	7	1.5	.7	N	.3	N	N	N	50
I683540	37 47 36	88 49 16	.15	2	1	.5	N	.3	N	N	N	50
I683580	37 47 36	88 49 16	.07	2	.7	.7	N	.3	N	N	N	20
I683600	37 47 36	88 49 16	.2	5	2	1	N	.5	N	N	N	70
I683620	37 47 36	88 49 16	.1	5	2	1	N	.5	N	N	N	70
I683640	37 47 36	88 49 16	.15	3	2	.7	N	.3	N	N	N	70
I683660	37 47 36	88 49 16	3	3	1.5	1	N	.3	N	N	N	50
I683680	37 47 36	88 49 16	.15	3	1	1	N	.3	N	N	N	30
I683700	37 47 36	88 49 16	.2	5	1	1	N	.3	N	N	N	50
I683720	37 47 36	88 49 16	<.05	5	2	1	N	.5	N	N	N	70
I683740	37 47 36	88 49 16	.07	5	1.5	1	N	.3	N	N	N	70
I683760	37 47 36	88 49 16	.2	5	1.5	1	N	.3	N	N	N	50
I683780	37 47 36	88 49 16	.3	5	1	.5	N	.3	N	N	N	50
I683800	37 47 36	88 49 16	1	5	1.5	.7	N	.5	N	N	N	70
I683820	37 47 36	88 49 16	.7	2	1	.5	N	.3	N	N	N	30
I683840	37 47 36	88 49 16	1	3	1	.5	N	.3	N	N	N	50
I683860	37 47 36	88 49 16	.3	5	2	.7	N	.5	N	N	N	100
I683880	37 47 36	88 49 16	.15	3	1.5	.7	N	.3	N	N	N	70
I683900	37 47 36	88 49 16	.2	5	1.5	1	N	.5	.5	N	N	100
I683920	37 47 36	88 49 16	1.5	2	1.5	.5	N	.3	<.5	N	N	70
I683940	37 47 36	88 49 16	1.5	3	1	.2	N	.3	<.5	N	N	100
I683960	37 47 36	88 49 16	.5	2	.7	N	N	.2	N	N	N	70
I683980	37 47 36	88 49 16	1	3	1	.5	N	.3	N	N	N	50
I684000	37 47 36	88 49 16	2	2	.5	<.2	N	.2	N	N	N	30
I684020	37 47 36	88 49 16	1	1	.5	<.2	N	.15	N	N	N	20

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I682840	100	1	N	N	<10	150	7	50	N	N	15	N	N
I682860	200	1.5	N	N	10	200	30	100	N	<50	150	N	<20
I682880	150	1	N	N	15	150	30	70	N	N	50	N	N
I682900	70	<1	N	N	<10	70	10	50	N	N	30	N	N
I682920	100	1	N	N	10	150	15	70	N	N	30	N	N
I682940	100	<1	N	N	10	100	7	70	N	N	15	N	N
I682960	100	<1	N	N	10	70	10	50	N	N	50	N	N
I682980	200	N	N	N	N	20	5	15	N	N	15	N	N
I683000	70	N	N	N	<10	30	30	20	N	N	15	N	N
I683020	50	N	N	N	<10	50	5	30	N	N	10	N	N
I683040	100	N	N	N	10	150	7	70	N	N	20	N	N
I683060	70	<1	N	N	10	70	10	50	N	N	20	N	N
I683080	100	1	N	N	<10	30	7	30	N	N	20	N	N
I683100	50	N	N	N	N	20	7	20	N	N	15	N	N
I683120	70	N	N	N	<10	20	20	20	N	N	20	<5	N
I683140	150	N	N	N	<10	50	200	20	N	N	100	5	N
I683160	100	N	N	N	<10	70	10	30	N	<50	100	<5	N
I683180	50	N	N	N	<10	50	10	30	N	N	20	N	N
I683200	70	N	N	N	<10	70	15	50	N	N	15	N	N
I683220	200	<1	N	N	<10	100	15	70	N	N	20	N	N
I683240	200	<1	N	N	10	100	100	70	N	N	30	<5	N
I683260	150	<1	N	N	<10	100	20	70	N	N	50	N	N
I683280	200	N	N	N	10	150	50	70	N	N	50	7	N
I683300	100	N	N	N	<10	70	10	50	N	N	15	N	N
I683320	200	N	N	N	<10	50	15	30	N	N	70	N	N
I683340	150	N	N	N	10	70	15	50	N	N	30	N	N
I683360	150	<1	N	N	<10	70	10	30	N	<50	15	N	N
I683380	150	<1	N	N	10	70	30	50	N	N	100	<5	N
I683400	200	1	N	N	15	150	50	70	N	<50	30	<5	N
I683420	100	<1	N	N	10	50	30	20	N	N	20	N	N
I683440	150	N	N	N	<10	70	15	50	N	N	20	N	N
I683460	200	N	N	N	<10	50	20	50	N	N	30	<5	N
I683460	500	<1	N	N	10	100	20	50	N	N	30	<5	N
I683480	300	1.5	N	N	70	50	50	30	N	500	20	5	N
I683500	200	N	N	N	<10	50	20	30	N	N	15	N	N
I683520	150	N	N	N	<10	70	15	70	N	N	500	N	N
I683540	150	N	N	N	<10	50	15	20	N	N	20	N	N
I683580	1,500	N	N	N	<10	70	10	30	N	N	15	N	N
I683600	300	<1	N	N	10	100	15	100	N	<50	300	N	<20
I683620	200	1.5	N	N	15	100	20	70	N	<50	30	N	<20
I683640	150	1.5	N	N	10	70	20	50	N	<50	50	N	N
I683660	100	<1	N	N	10	100	10	50	N	N	15	N	N
I683680	150	<1	N	N	<10	70	30	50	N	N	20	<5	N
I683700	100	<1	N	N	10	100	30	50	N	N	20	N	N
I683720	150	1	N	N	10	100	20	70	N	<50	30	N	N
I683740	100	<1	N	N	<10	70	15	50	N	N	20	N	N
I683760	70	<1	N	N	10	70	20	50	N	N	100	N	N
I683780	100	<1	N	N	10	50	30	30	N	N	70	N	N
I683800	100	1	N	N	10	100	20	70	N	<50	70	N	N
I683820	70	<1	N	N	<10	30	7	20	N	N	50	N	N
I683840	100	<1	N	N	<10	70	30	30	N	N	50	N	N
I683860	150	1	N	N	10	100	20	50	N	<50	200	N	N
I683880	100	<1	N	N	<10	100	30	70	N	N	30	N	N
I683900	200	1.5	N	N	10	100	20	70	N	<50	100	<5	N
I683920	150	1	N	N	<10	70	15	30	N	<50	500	N	N
I683940	100	<1	N	N	N	30	30	20	N	N	15	N	N
I683960	70	N	N	N	N	30	70	30	N	N	30	N	N
I683980	70	<1	N	N	<10	30	10	30	N	N	200	N	N
I684000	30	N	N	N	N	10	10	5	N	N	30	N	N
I684020	30	N	N	N	N	<10	<5	10	N	N	10	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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 #
I682840	30	<10	N	5	N	150	N	100	N	N	N	70	.12	2
I682860	50	10	N	7	N	<100	N	150	N	<10	<200	100	.51	2
I682880	50	15	N	5	N	<100	N	100	N	N	<200	70	.14	2
I682900	20	10	N	<5	N	N	N	50	N	N	N	20	.09	2
I682920	30	<10	N	5	N	N	N	70	N	N	N	70	.18	2
I682940	30	<10	N	<5	N	N	N	70	N	N	N	50	.18	2
I682960	20	<10	N	<5	N	N	N	50	N	N	200	30	.08	2
I682980	10	N	N	N	N	N	N	30	N	N	N	20	.19	2
I683000	20	N	N	<5	N	<100	N	70	N	N	N	30	.07	2
I683020	10	N	N	N	N	N	N	20	N	N	N	20	.13	2
I683040	20	<10	N	5	N	N	N	70	N	N	N	50	.12	2
I683060	20	15	N	5	N	N	N	70	N	N	N	50	.13	2
I683080	15	N	N	<5	N	N	N	50	N	N	N	50	.08	2
I683100	10	N	N	N	N	N	N	30	N	N	N	30	.27	2
I683120	15	<10	N	<5	N	<100	N	30	N	N	<200	30	.1	2
I683140	20	<10	N	<5	N	<100	N	50	N	N	<200	70	.09	2
I683160	30	10	N	<5	N	100	N	70	N	N	N	150	.1	2
I683180	15	<10	N	<5	N	N	N	50	N	N	N	30	.11	2
I683200	20	10	N	5	N	N	N	70	N	N	N	50	.08	2
I683220	30	15	N	5	N	2,000	N	70	N	N	N	30	.17	2
I683240	50	10	N	7	N	500	N	100	N	N	N	70	.15	2
I683260	50	<10	N	5	N	700	N	100	N	N	N	50	.17	2
I683280	70	15	N	5	N	N	N	100	N	N	N	70	.18	2
I683300	20	<10	N	<5	N	N	N	50	N	N	N	20	.11	2
I683320	20	N	N	<5	N	N	N	50	N	N	N	50	.15	2
I683340	30	<10	N	<5	N	N	N	70	N	N	N	70	.08	2
I683360	20	<10	N	5	N	150	N	100	N	N	N	70	.29	2
I683380	70	10	N	5	N	N	N	100	N	N	<200	50	.12	2
I683400	70	10	N	7	N	N	N	150	N	<10	N	100	.12	2
I683420	20	10	N	<5	N	N	N	70	N	N	N	30	.09	2
I683440	15	<10	N	<5	N	N	N	70	N	N	N	30	.24	2
I683460	15	10	N	<5	N	N	N	70	N	N	<200	30	.43	2
I683460	30	20	N	5	N	N	N	70	N	<10	N	70	.14	2
I683480	150	150	N	<5	N	1,500	N	70	N	10	<200	50	.14	2
I683500	20	15	N	5	N	N	N	70	N	N	N	70	.14	2
I683520	15	10	N	5	N	N	N	100	N	N	200	50	.1	2
I683540	15	<10	N	<5	N	N	N	50	N	N	<200	50	.1	2
I683580	15	15	N	<5	N	N	N	30	N	N	N	30	.07	2
I683600	30	30	N	7	N	N	N	100	N	10	N	70	.06	2
I683620	50	15	N	7	N	N	N	100	N	<10	200	150	.08	2
I683640	30	15	N	7	N	N	N	100	N	<10	N	100	.07	2
I683660	20	<10	N	5	N	N	N	70	N	N	<200	100	2.85	2
I683680	20	<10	N	<5	N	N	N	50	N	N	N	30	.43	2
I683700	30	15	N	<5	N	N	N	70	N	N	N	50	.09	2
I683720	20	30	N	7	N	N	N	100	N	<10	N	70	.07	2
I683740	20	15	N	5	N	N	N	100	N	N	N	70	.06	2
I683760	30	15	N	<5	N	N	N	70	N	N	N	30	.07	2
I683780	20	10	N	<5	N	N	N	50	N	N	N	30	.06	2
I683800	30	10	N	7	N	<100	N	100	N	<10	<200	50	.06	2
I683820	15	<10	N	<5	N	N	N	30	N	N	N	70	.11	2
I683840	20	<10	N	<5	N	100	N	50	N	N	N	70	.08	2
I683860	30	20	N	7	N	150	N	70	N	<10	<200	70	.05	2
I683880	20	15	N	5	N	N	N	70	N	<10	N	50	.2	2
I683900	30	10	N	7	N	150	N	100	N	10	N	100	.31	2
I683920	15	30	N	5	N	700	N	70	N	<10	N	70	.27	2
I683940	20	N	N	<5	N	<100	N	50	N	N	N	50	.08	2
I683960	20	<10	N	<5	N	N	N	100	N	N	1,500	30	.08	2
I683980	30	<10	N	<5	N	N	N	50	N	N	N	30	.35	2
I684000	15	N	N	N	N	N	N	30	N	N	N	20	.35	2
I684020	7	<10	N	N	N	N	N	20	N	N	N	15	.11	2

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I684040	37 47 36	88 49 16	2	1.5	.5	<.2	N	.2	N	N	N	30
I684060	37 47 36	88 49 16	2	1	.3	N	N	.15	N	N	N	30
I684080	37 47 36	88 49 16	2	1.5	.5	.5	N	.2	N	N	N	20
I684100	37 47 36	88 49 16	3	2	1	.3	N	.2	N	N	N	30
I684120	37 47 36	88 49 16	3	3	1.5	.5	N	.3	N	N	N	70
I684140	37 47 36	88 49 16	.7	.5	.2	N	N	.07	N	N	N	20
I684160	37 47 36	88 49 16	1	.5	.2	N	N	.05	N	N	N	20
I684180	37 47 36	88 49 16	1.5	.7	.2	N	N	.07	N	N	N	50
I684200	37 47 36	88 49 16	1	.3	.15	N	N	.05	N	N	N	30
I684220	37 47 36	88 49 16	.7	.5	.15	N	N	.03	N	N	N	15
I684240	37 47 36	88 49 16	.5	.3	.1	N	N	.03	N	N	N	20
I684260	37 47 36	88 49 16	.7	.7	.15	N	N	.05	N	N	N	20
I684280	37 47 36	88 49 16	2	.7	.7	<.2	N	.07	N	N	N	30
I684300	37 47 36	88 49 16	.7	1	.5	.5	N	.1	<.5	N	N	30
I684320	37 47 36	88 49 16	1	2	1.5	.5	N	.15	N	N	N	50
I684340	37 47 36	88 49 16	.3	5	2	1.5	N	.5	N	N	N	100
I684360	37 47 36	88 49 16	.05	15	2	1	N	.7	N	N	N	150
I684380	37 47 36	88 49 16	1	7	3	1.5	N	.3	.5	N	N	100
I684400	37 47 36	88 49 16	.07	5	1.5	1	N	.3	N	N	N	70
I684420	37 47 36	88 49 16	.05	7	1.5	1.5	N	.3	N	N	N	50
I684440	37 47 36	88 49 16	.07	10	1.5	1.5	N	.5	N	N	N	100
I684460	37 47 36	88 49 16	.1	3	1.5	1.5	N	.3	N	N	N	50
I684480	37 47 36	88 49 16	.07	5	1.5	1	N	.3	N	N	N	70
I684500	37 47 36	88 49 16	.07	3	1.5	2	N	.3	N	N	N	50
I684520	37 47 36	88 49 16	.15	5	2	1	N	.5	N	N	N	100
I684540	37 47 36	88 49 16	.2	3	2	.5	N	.15	N	N	N	50
I684560	37 47 36	88 49 16	.7	2	1.5	.2	N	.1	N	N	N	70
I684580	37 47 36	88 49 16	1.5	1.5	1.5	.3	N	.1	N	N	N	30
I684600	37 47 36	88 49 16	3	2	1.5	.5	N	.15	N	N	N	50
I684620	37 47 36	88 49 16	5	2	1	.7	N	.2	N	N	N	70
I684640	37 47 36	88 49 16	1	1	.5	N	N	.07	N	N	N	15
I684660	37 47 36	88 49 16	.3	.5	1	N	N	.03	N	N	N	15
I684680	37 47 36	88 49 16	.3	1	.2	N	N	.03	N	N	N	15
I684700	37 47 36	88 49 16	1.5	1	.3	N	N	.03	N	N	N	10
I684720	37 47 36	88 49 16	.3	.3	.15	N	N	.02	N	N	N	<10
I684740	37 47 36	88 49 16	1.5	.2	.5	N	N	.02	N	<200	N	50
I684760	37 47 36	88 49 16	1	.2	.5	N	N	.02	N	N	N	30
I684780	37 47 36	88 49 16	.3	.3	.2	N	N	.03	N	N	N	30
I684800	37 47 36	88 49 16	.7	.2	.2	N	N	.02	N	N	N	20
I684820	37 47 36	88 49 16	.15	.15	.1	N	N	.02	N	N	N	20
I684840	37 47 36	88 49 16	1.5	.2	.3	N	N	.02	N	N	N	15
I684860	37 47 36	88 49 16	2	.3	.5	N	N	.03	N	<200	N	20
I684880	37 47 36	88 49 16	.7	.1	.07	N	N	.01	N	N	N	10
I684900	37 47 36	88 49 16	1	.2	.1	N	N	.015	N	N	N	30
I684920	37 47 36	88 49 16	.5	2	1.5	.3	N	.3	N	N	N	70
I684940	37 47 36	88 49 16	.2	1.5	.7	<.2	N	.15	N	N	N	30
I684960	37 47 36	88 49 16	1	1	.5	N	N	.1	N	N	N	50
I684980	37 47 36	88 49 16	.2	.7	.2	N	N	.1	N	N	N	70
I685000	37 47 36	88 49 16	2	.2	.2	N	N	.02	N	N	N	30
I685020	37 47 36	88 49 16	3	.2	.3	N	N	.03	N	N	N	50
I685040	37 47 36	88 49 16	2	.15	.15	N	N	.015	N	N	N	30
I685060	37 47 36	88 49 16	5	.2	.2	N	N	.02	N	N	N	50
I685080	37 47 36	88 49 16	2	.3	.2	N	N	.02	N	N	N	20
I685100	37 47 36	88 49 16	.7	.3	.15	N	N	.05	N	N	N	30
I685120	37 47 36	88 49 16	1.5	1	.5	<.2	N	.1	N	N	N	50
I685140	37 47 36	88 49 16	2	.7	.2	N	N	.05	N	N	N	15
I685160	37 47 36	88 49 16	.7	.05	.1	N	N	.015	N	N	N	30
I685180	37 47 36	88 49 16	1	.07	.15	N	N	.015	N	N	N	30
I685200	37 47 36	88 49 16	1.5	.05	.1	N	N	.01	N	N	N	20
I685220	37 47 36	88 49 16	1.5	1	.15	N	N	.03	N	N	N	50

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I684040	50	N	N	N	N	10	5	10	N	N	10	N	N
I684060	30	N	N	N	N	<10	<5	7	N	N	<10	N	N
I684080	50	N	N	N	N	30	5	20	N	N	<10	N	N
I684100	50	N	N	N	<10	50	7	30	N	N	15	N	N
I684120	150	1	N	N	<10	70	10	70	N	<50	50	N	N
I684140	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I684160	N	N	N	N	N	N	N	N	N	N	<10	N	N
I684180	20	N	N	N	N	N	<5	N	N	N	N	N	N
I684200	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I684220	N	N	N	N	N	N	5	N	N	N	10	N	N
I684240	N	N	N	N	N	N	N	N	N	N	N	N	N
I684260	<20	N	N	N	N	N	N	N	N	N	15	N	N
I684280	20	N	N	N	N	N	<5	N	N	N	N	N	N
I684300	50	N	N	N	N	10	15	7	N	N	10	N	N
I684320	300	N	N	N	N	20	15	15	N	N	50	N	N
I684340	1,000	<1	N	N	10	70	20	70	N	<50	100	N	N
I684360	500	<1	N	N	10	50	30	30	N	<50	70	N	N
I684380	300	1.5	N	N	15	150	50	150	N	<50	100	15	N
I684400	200	1	N	N	20	70	70	50	N	N	150	50	N
I684420	200	<1	N	N	15	70	100	50	N	N	100	30	N
I684440	500	2	N	N	20	100	150	70	N	<50	200	50	N
I684460	200	<1	N	N	10	100	30	50	N	N	150	7	N
I684480	150	<1	N	N	<10	100	30	50	N	N	70	<5	N
I684500	200	N	N	N	<10	100	30	70	N	N	50	7	N
I684520	200	1.5	N	N	10	70	70	70	N	N	100	20	N
I684540	70	N	N	N	<10	15	30	10	N	N	70	5	N
I684560	50	N	N	N	N	<10	200	7	N	N	30	N	N
I684580	50	N	N	N	N	<10	15	7	N	N	70	N	N
I684600	70	N	N	N	<10	15	20	20	N	N	200	N	N
I684620	100	<1	N	N	<10	30	20	50	N	N	200	N	N
I684640	20	N	N	N	N	N	7	N	N	N	30	N	N
I684660	<20	N	N	N	N	N	5	N	N	N	<10	N	N
I684680	<20	N	N	50	N	N	20	N	N	N	10	N	N
I684700	<20	N	N	<20	N	N	10	N	N	N	20	N	N
I684720	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I684740	20	N	N	N	N	N	N	N	N	N	10	N	N
I684760	30	N	N	N	N	N	N	N	N	N	<10	N	N
I684780	<20	N	N	N	N	N	<5	N	N	N	<10	N	N
I684800	N	N	N	N	N	N	30	N	N	N	N	N	N
I684820	<20	N	N	N	N	N	N	N	N	N	N	N	N
I684840	20	N	N	N	N	N	N	N	N	N	N	N	N
I684860	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I684880	N	N	N	N	N	N	5	N	N	N	N	N	N
I684900	<20	N	N	N	N	N	5	N	N	N	N	N	N
I684920	150	1	N	N	<10	70	20	50	N	<50	20	N	N
I684940	30	<1	N	N	N	20	<5	15	N	N	30	N	N
I684960	20	N	N	N	N	<10	15	N	N	N	15	N	N
I684980	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I685000	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I685020	20	N	N	N	N	N	N	N	N	N	<10	N	N
I685040	N	N	N	N	N	N	7	N	N	N	<10	N	N
I685060	<20	N	N	N	N	N	5	N	N	N	N	N	N
I685080	<20	N	N	N	N	N	N	N	N	N	N	N	N
I685100	30	N	N	N	N	N	<5	N	N	N	N	N	N
I685120	50	N	N	N	N	<10	7	<5	N	N	10	N	N
I685140	<20	N	N	N	N	N	5	N	N	N	10	N	N
I685160	N	N	N	N	N	N	<5	N	N	N	N	N	N
I685180	N	N	N	N	N	N	N	N	N	N	N	N	N
I685200	N	N	N	N	N	N	N	N	N	N	N	N	N
I685220	<20	N	N	N	N	N	7	N	N	N	<10	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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 #
I684040	10	50	N	N	N	<100	N	30	N	N	N	20	.03	2
I684060	7	100	N	N	N	<100	N	20	N	N	N	15	.03	2
I684080	10	15	N	<5	N	<100	N	30	N	N	N	20	.05	2
I684100	15	50	N	<5	N	100	N	50	N	N	N	30	.06	2
I684120	20	N	N	5	N	<100	N	70	N	N	N	70	.18	2
I684140	5	N	N	N	N	N	N	10	N	N	N	15	.04	2
I684160	5	N	N	N	N	N	N	<10	N	N	N	10	.02	2
I684180	5	N	N	N	N	N	N	10	N	N	N	15	.04	2
I684200	<5	N	N	N	N	N	N	<10	N	N	N	10	.02	2
I684220	<5	N	N	N	N	N	N	N	N	N	N	<10	.04	2
I684240	<5	N	N	N	N	N	N	N	N	N	N	N	.04	2
I684260	<5	N	N	N	N	N	N	<10	N	N	N	<10	.02	2
I684280	5	N	N	N	N	N	N	10	N	N	N	20	.05	2
I684300	10	N	N	N	N	N	N	20	N	N	N	30	.05	2
I684320	15	<10	N	<5	N	N	N	50	N	N	N	30	.04	2
I684340	30	10	N	7	N	N	N	150	N	10	N	100	.05	2
I684360	150	<10	N	5	N	N	N	150	N	<10	N	200	.04	2
I684380	100	30	N	10	N	N	N	300	N	10	<200	150	.06	2
I684400	100	15	N	5	N	N	N	200	N	<10	N	100	.05	2
I684420	70	20	N	<5	N	N	N	150	N	<10	N	70	.05	2
I684440	70	70	N	7	N	N	N	200	N	10	<200	100	.05	2
I684460	20	15	N	5	N	N	N	100	N	<10	N	100	.04	2
I684480	30	15	N	<5	N	N	N	100	N	N	N	70	.05	2
I684500	30	10	N	<5	N	N	N	100	N	N	N	100	.04	2
I684520	70	20	N	7	N	N	N	200	N	<10	N	150	.05	10
I684540	20	15	N	N	N	N	N	100	N	N	N	70	.03	10
I684560	10	<10	N	N	N	N	N	50	N	N	N	50	.04	10
I684580	5	<10	N	N	N	N	N	30	N	N	N	50	.04	10
I684600	7	10	N	N	N	N	N	70	N	N	N	70	.05	10
I684620	10	15	N	<5	N	N	N	100	N	N	N	50	.08	10
I684640	5	20	N	N	N	N	N	15	N	N	N	20	.01	10
I684660	<5	20	N	N	N	N	N	<10	N	N	1,500	10	<.01	10
I684680	5	150	N	N	N	N	N	10	N	N	10,000	30	<.01	10
I684700	7	150	N	N	N	N	N	10	N	N	2,000	30	<.01	10
I684720	<5	1,500	N	N	N	N	N	<10	N	N	1,000	15	<.01	10
I684740	N	N	N	N	N	N	N	<10	N	N	<200	30	<.01	10
I684760	N	N	N	N	N	N	N	<10	N	N	N	70	<.01	10
I684780	<5	N	N	N	N	N	N	10	N	N	N	30	<.01	10
I684800	N	N	N	N	N	N	N	<10	N	N	N	30	<.01	10
I684820	N	N	N	N	N	N	N	N	N	N	N	70	<.01	10
I684840	N	70	N	N	N	N	N	N	N	N	N	50	<.01	10
I684860	N	N	N	N	N	N	N	<10	N	N	1,000	50	<.01	10
I684880	N	N	N	N	N	N	N	N	N	N	5,000	10	<.01	10
I684900	<5	N	N	N	N	N	N	N	N	N	5,000	<10	<.01	10
I684920	20	150	N	5	N	N	N	50	N	<10	1,000	70	.03	10
I684940	10	N	N	<5	N	N	N	30	<20	N	N	20	.02	10
I684960	5	N	N	N	N	N	N	20	N	N	N	20	.02	10
I684980	<5	N	N	N	N	N	N	15	N	N	N	50	<.01	10
I685000	N	N	N	N	N	N	N	<10	N	N	N	10	<.01	10
I685020	N	N	N	N	N	N	N	<10	N	N	N	15	<.01	10
I685040	N	N	N	N	N	N	N	N	N	N	N	15	<.01	15
I685060	N	N	N	N	N	N	N	N	N	N	N	10	<.01	15
I685080	<5	N	N	N	N	N	N	N	N	N	N	10	<.01	15
I685100	<5	N	N	N	N	N	N	10	N	N	N	15	<.01	15
I685120	7	<10	N	<5	N	N	N	15	N	N	N	70	.01	15
I685140	5	N	N	N	N	N	N	<10	20	N	N	20	.02	15
I685160	N	N	N	N	N	N	N	N	N	N	N	<10	<.01	15
I685180	N	N	N	N	N	N	N	N	N	N	N	30	<.01	15
I685200	N	N	N	N	N	N	N	N	N	N	N	50	<.01	15
I685220	5	N	N	N	N	N	N	20	N	N	N	50	.11	15

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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
I685240	37 47 36	88 49 16	.7	.2	.5	N	N	.02	N	N	N	20
I685260	37 47 36	88 49 16	3	.2	1	N	N	.02	N	N	N	50
I685280	37 47 36	88 49 16	2	.3	.7	N	N	.05	N	N	N	50
I685300	37 47 36	88 49 16	1.5	.2	.5	N	N	.02	N	N	N	30
I685320	37 47 36	88 49 16	2	.15	1	N	N	.02	N	N	N	50
I685340	37 47 36	88 49 16	1.5	.3	1	N	N	.03	N	N	N	50
I685360	37 47 36	88 49 16	1.5	.2	.7	N	N	.03	N	N	N	30
I685380	37 47 36	88 49 16	2	1	1.5	.2	N	.1	N	N	N	70
I685400	37 47 36	88 49 16	.5	2	1	.3	N	.2	N	N	N	50
I685420	37 47 36	88 49 16	2	.7	1.5	.2	N	.07	N	N	N	70
I685440	37 47 36	88 49 16	5	1	2	.3	N	.1	N	N	N	50
I685460	37 47 36	88 49 16	1	.5	1	<.2	N	.07	N	N	N	30
I685480	37 47 36	88 49 16	.7	.7	1.5	.3	N	.07	N	N	N	50
I685500	37 47 36	88 49 16	3	1	2	.3	N	.1	N	N	N	50
I685520	37 47 36	88 49 16	.7	1	1.5	.5	N	.1	N	N	N	30
I685540	37 47 36	88 49 16	.3	.7	1	.3	N	.15	N	N	N	30
I685560	37 47 36	88 49 16	.3	1	1	.7	N	.2	N	N	N	50
I685580	37 47 36	88 49 16	.2	1	1	.5	N	.2	N	N	N	70
I685600	37 47 36	88 49 16	1	.5	.7	.7	N	.15	N	N	N	70
I685620	37 47 36	88 49 16	1.5	.3	.5	<.2	N	.05	N	N	N	50
I685640	37 47 36	88 49 16	.7	.3	.3	<.2	N	.07	N	N	N	70
I685660	37 47 36	88 49 16	.5	.2	.3	<.2	N	.05	N	N	N	30
I685680	37 47 36	88 49 16	1	.5	.7	.2	N	.1	N	N	N	50
I685700	37 47 36	88 49 16	.7	1	.7	.3	N	.2	N	N	N	50
I685720	37 47 36	88 49 16	1	.7	.7	.3	N	.15	N	N	N	30
I685740	37 47 36	88 49 16	.7	1.5	1	.5	N	.2	N	N	N	30
I685760	37 47 36	88 49 16	2	5	2	.7	N	.5	N	N	N	100
I685780	37 47 36	88 49 16	1	5	1.5	.5	N	.5	N	N	N	100
I685800	37 47 36	88 49 16	1	2	1.5	1	N	.3	N	N	N	70
I685820	37 47 36	88 49 16	.7	1.5	1	.5	N	.2	N	N	N	50
I685840	37 47 36	88 49 16	.3	1.5	1	1	N	.2	N	N	N	30
I685860	37 47 36	88 49 16	.5	1.5	2	1	N	.3	N	N	N	70
I685880	37 47 36	88 49 16	5	2	3	1	N	.2	N	N	N	50
I685900	37 47 36	88 49 16	.2	1	1	.3	N	.15	N	N	N	30
I685920	37 47 36	88 49 16	.2	2	2	1	N	.3	N	N	N	70
I685940	37 47 36	88 49 16	1.5	1.5	3	1.5	N	.2	N	N	N	30
I685960	37 47 36	88 49 16	.5	2	3	2	N	.2	N	N	N	20
I685980	37 47 36	88 49 16	.2	3	2	2	N	.3	N	N	N	50
I686000	37 47 36	88 49 16	.15	3	2	1.5	N	.3	N	N	N	30
I686020	37 47 36	88 49 16	.5	7	5	2	N	.5	N	N	N	70
I686040	37 47 36	88 49 16	10	3	5	1.5	N	.2	N	N	N	30
I686060	37 47 36	88 49 16	.1	5	3	1.5	N	.3	N	N	N	50
I686080	37 47 36	88 49 16	.5	5	5	2	N	.3	N	N	N	70
I686100	37 47 36	88 49 16	.15	7	3	1.5	N	.3	N	N	N	100
I686120	37 47 36	88 49 16	.05	5	2	1.5	N	.5	N	N	N	70
I686140	37 47 36	88 49 16	.07	3	1.5	2	N	.5	N	N	N	70
I686160	37 47 36	88 49 16	.2	5	2	1.5	N	.7	N	N	N	100
I686180	37 47 36	88 49 16	2	7	3	1.5	N	.5	N	N	N	100
I686200	37 47 36	88 49 16	.5	1.5	.5	<.2	N	.1	N	N	N	20
I686220	37 47 36	88 49 16	.3	1	.3	N	N	.1	N	N	N	20
I686240	37 47 36	88 49 16	.2	.7	.1	N	N	.05	N	N	N	15
I686260	37 47 36	88 49 16	1.5	.7	.7	N	N	.05	N	N	N	15
I686280	37 47 36	88 49 16	.7	2	3	.5	N	.15	N	N	N	30
I686300	37 47 36	88 49 16	.3	.7	.7	.2	N	.15	N	N	N	50
I686320	37 47 36	88 49 16	.07	2	1	1	N	.2	N	N	N	20
I686340	37 47 36	88 49 16	1.5	5	5	1.5	N	.5	N	N	N	70
I686360	37 47 36	88 49 16	1.5	3	3	1.5	N	.3	N	N	N	70
I686380	37 47 36	88 49 16	1	3	1.5	1	N	.3	N	N	N	70
I686400	37 47 36	88 49 16	5	5	3	1	N	.5	N	N	N	100
I686420	37 47 36	88 49 16	1.5	3	1.5	1	N	.3	N	N	N	50

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I685240	N	N	N	N	N	N	N	N	N	N	<10	N	N
I685260	20	N	N	N	N	N	N	N	N	N	10	N	N
I685280	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I685300	20	N	N	N	N	N	N	N	N	N	<10	N	N
I685320	20	N	N	N	N	N	N	N	N	N	<10	N	N
I685340	20	N	N	N	N	N	N	N	N	N	<10	N	N
I685360	20	N	N	N	N	N	N	N	N	N	<10	N	N
I685380	70	<1	N	N	N	<10	5	5	N	N	15	N	N
I685400	50	<1	N	N	<10	20	10	15	N	N	15	N	N
I685420	50	N	N	N	N	<10	15	<5	N	N	10	N	N
I685440	50	N	N	N	N	<10	<5	5	N	N	15	N	N
I685460	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I685480	200	N	N	N	N	<10	5	<5	N	N	<10	N	N
I685500	100	N	N	N	N	15	7	5	N	N	50	N	N
I685520	100	N	N	N	N	10	5	5	N	N	10	N	N
I685540	50	N	N	N	N	<10	5	<5	N	N	<10	N	N
I685560	100	N	N	N	N	15	700	10	N	N	20	N	N
I685580	150	N	N	N	N	15	20	10	N	N	10	N	N
I685600	200	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I685620	50	N	N	N	N	N	N	N	N	N	<10	N	N
I685640	500	N	N	N	N	N	N	N	N	N	N	N	N
I685660	30	N	N	N	N	N	N	N	N	N	N	N	N
I685680	100	N	N	N	N	N	<5	N	N	N	N	N	N
I685700	150	N	N	N	N	<10	5	5	N	N	10	N	N
I685720	100	N	N	N	N	<10	<5	<5	N	N	10	N	N
I685740	1,000	N	N	N	N	15	5	15	N	N	15	N	N
I685760	200	1	N	N	10	150	15	70	N	<50	100	N	<20
I685780	200	<1	N	N	<10	50	20	30	N	N	30	N	<20
I685800	150	<1	N	N	<10	30	15	30	N	N	20	N	N
I685820	100	N	N	N	N	10	15	15	N	N	15	N	N
I685840	150	N	N	N	N	20	20	20	N	N	15	N	<20
I685860	300	<1	N	N	<10	30	20	20	N	N	20	N	N
I685880	200	N	N	N	<10	30	20	30	N	N	50	N	N
I685900	70	N	N	N	N	10	10	10	N	N	10	N	N
I685920	200	1	N	N	<10	50	20	50	N	N	30	N	<20
I685940	300	<1	N	N	<10	30	10	15	N	N	20	N	N
I685960	300	<1	N	N	10	50	7	20	N	N	20	N	N
I685980	500	<1	N	N	<10	70	15	30	N	N	15	N	N
I686000	300	<1	N	N	<10	30	20	20	N	N	15	N	N
I686020	700	1	N	N	15	100	20	70	N	<50	50	N	N
I686040	300	<1	N	N	<10	50	5	20	N	N	100	N	N
I686060	300	<1	N	N	<10	50	15	30	N	N	15	N	N
I686080	500	<1	N	N	15	70	15	50	N	N	20	N	N
I686100	700	1.5	N	N	10	50	7	20	N	N	70	N	N
I686120	300	<1	N	N	10	100	7	50	N	N	30	N	N
I686140	500	1	N	N	10	100	15	30	N	N	50	N	N
I686160	300	2	N	N	15	150	300	70	N	<50	50	N	N
I686180	500	1.5	N	N	20	100	20	70	N	N	200	N	<20
I686200	70	N	N	N	N	N	10	<5	N	N	10	N	N
I686220	50	N	N	N	N	N	N	N	N	N	N	N	N
I686240	20	N	N	N	N	N	5	N	N	N	N	N	N
I686260	70	N	N	N	N	N	N	N	N	N	<10	N	N
I686280	150	N	N	N	N	15	15	10	N	N	30	N	N
I686300	100	N	N	N	N	N	<5	<5	N	N	10	N	N
I686320	100	N	N	N	N	10	7	15	N	N	15	N	N
I686340	500	1.5	N	N	10	30	15	30	N	<50	200	N	<20
I686360	300	1.5	N	N	10	30	15	30	N	<50	200	N	<20
I686380	200	<1	N	N	10	30	20	30	N	N	150	N	N
I686400	500	5	N	N	15	50	30	50	N	50	500	N	<20
I686420	300	<1	N	N	10	50	15	50	N	N	200	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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 #
I685240	<5	N	N	N	N	N	N	<10	N	N	N	<10	.03	15
I685260	N	N	N	N	N	N	N	N	N	N	N	10	.05	15
I685280	<5	N	N	N	N	N	N	<10	N	N	N	30	.02	15
I685300	N	N	N	N	N	N	N	N	N	N	N	15	.01	15
I685320	N	N	N	N	N	N	N	N	N	N	N	10	<.01	15
I685340	<5	N	N	N	N	N	N	<10	N	N	N	10	<.01	15
I685360	N	N	N	N	N	N	N	N	N	N	N	15	<.01	15
I685380	5	<10	N	N	N	N	N	30	N	N	N	20	.07	15
I685400	10	<10	N	<5	N	N	N	50	N	N	N	50	.05	15
I685420	<5	N	N	N	N	N	N	20	N	N	300	20	.03	15
I685440	<5	N	N	N	N	N	N	20	N	N	N	70	.07	15
I685460	N	N	N	N	N	N	N	15	N	N	N	30	.03	15
I685480	N	N	N	N	N	N	N	20	N	N	N	50	.04	15
I685500	5	<10	N	<5	N	N	N	30	N	N	N	50	.1	15
I685520	5	N	N	N	N	N	N	20	N	N	N	70	.06	15
I685540	<5	N	N	N	N	N	N	30	N	N	N	50	.06	15
I685560	7	<10	N	N	N	N	N	50	N	N	N	70	.05	15
I685580	15	N	N	N	N	N	N	50	N	N	N	100	.04	15
I685600	N	N	N	N	N	N	N	15	N	N	N	100	.02	15
I685620	N	N	N	N	N	N	N	<10	N	N	N	30	.02	15
I685640	N	N	N	N	N	N	N	10	N	N	N	30	.02	15
I685660	N	N	N	N	N	N	N	<10	N	N	N	15	.01	15
I685680	N	N	N	N	N	N	N	10	N	N	N	30	.03	15
I685700	5	N	N	N	N	N	N	20	N	N	N	70	.03	15
I685720	5	N	N	N	N	N	N	20	N	N	N	50	.04	15
I685740	7	N	N	N	N	N	N	30	N	N	N	30	.04	15
I685760	50	<10	N	7	N	N	N	100	N	<10	N	100	.06	15
I685780	30	10	N	<5	N	N	N	100	N	N	<200	70	.06	15
I685800	10	<10	N	<5	N	N	N	70	N	N	N	50	.06	15
I685820	7	N	N	N	N	N	N	30	N	N	N	50	.05	15
I685840	7	<10	N	N	N	N	N	50	N	N	N	30	.07	15
I685860	10	10	N	<5	N	N	N	70	N	N	N	70	.06	15
I685880	10	10	N	<5	N	N	N	70	N	N	N	50	.07	15
I685900	5	N	N	N	N	N	N	50	N	N	N	30	.06	15
I685920	10	20	N	5	N	N	N	100	N	N	N	70	.07	15
I685940	7	<10	N	<5	N	N	N	30	N	N	N	70	.07	15
I685960	10	N	N	<5	N	N	N	30	N	N	N	70	.07	15
I685980	10	N	N	<5	N	N	N	50	N	<10	N	100	.07	15
I686000	10	N	N	<5	N	N	N	30	N	N	N	70	.1	15
I686020	30	<10	N	7	N	N	N	100	N	<10	N	150	.11	15
I686040	15	15	N	<5	N	N	N	30	N	N	N	30	.08	15
I686060	10	<10	N	<5	N	N	N	50	N	N	N	70	.09	15
I686080	15	<10	N	5	N	N	N	70	N	<10	N	100	.09	15
I686100	15	<10	N	5	N	N	N	70	N	<10	N	100	.07	15
I686120	20	10	N	7	N	N	N	100	N	<10	N	70	.05	15
I686140	20	15	N	5	N	N	N	70	N	N	N	70	.07	15
I686160	70	<10	N	10	N	N	N	100	N	<10	N	100	.08	15
I686180	50	10	N	7	N	N	N	100	N	<10	N	100	.09	15
I686200	7	<10	N	N	N	N	N	20	N	N	N	15	.02	15
I686220	<5	N	N	N	N	N	N	15	N	N	N	10	.02	15
I686240	N	N	N	N	N	N	N	10	N	N	N	<10	.02	15
I686260	N	N	N	N	N	<100	N	15	N	N	N	10	.02	15
I686280	10	N	N	<5	N	N	N	70	N	N	N	30	.17	15
I686300	<5	N	N	N	N	N	N	20	N	N	N	30	.06	15
I686320	5	<10	N	N	N	N	N	30	N	N	N	70	.09	22
I686340	15	15	N	5	N	N	N	70	N	10	N	150	.11	22
I686360	15	10	N	7	N	N	N	100	N	<10	N	150	.07	22
I686380	10	15	N	5	N	N	N	50	N	<10	N	70	.07	22
I686400	15	10	N	10	N	<100	N	100	N	10	N	150	.07	22
I686420	10	<10	N	5	N	N	N	70	N	<10	N	50	.08	22

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 168, 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
I686440	37 47 36	88 49 16	2	5	2	1.5	N	.5	N	N	N	100
I686460	37 47 36	88 49 16	2	7	2	1.5	N	.5	N	N	N	70
I686480	37 47 36	88 49 16	3	5	2	1.5	<.2	.3	N	N	N	50
I686500	37 47 36	88 49 16	.7	2	.5	.2	N	.1	N	N	N	20
I686520	37 47 36	88 49 16	.1	7	.7	.3	N	.15	N	N	N	30
I686530	37 47 36	88 49 16	.3	2	.5	.2	N	.2	N	N	N	70
I686540	37 47 36	88 49 16	.2	1.5	.7	.2	N	.2	N	N	N	50
I686560	37 47 36	88 49 16	.1	2	1	.3	N	.3	N	N	N	100
I686580	37 47 36	88 49 16	.2	1.5	.7	.3	N	.2	N	N	N	50
I686590	37 47 36	88 49 16	.7	1	.7	<.2	N	.1	N	N	N	50
I686600	37 47 36	88 49 16	.2	7	3	1	N	.5	N	N	N	100
I686610	37 47 36	88 49 16	<.05	3	1.5	1	N	.5	1	N	N	100
I686620	37 47 36	88 49 16	.05	3	1.5	1	N	.3	N	N	N	70
I686640	37 47 36	88 49 16	.1	2	1	.7	N	.3	N	N	N	70
I686660	37 47 36	88 49 16	.3	3	2	.5	N	.3	N	N	N	50
I686680	37 47 36	88 49 16	.15	3	1.5	.3	N	.3	N	N	N	50
I686700	37 47 36	88 49 16	.2	2	1.5	.5	N	.3	N	N	N	50
I686720	37 47 36	88 49 16	.3	2	1	.7	N	.3	N	N	N	30
I686730	37 47 36	88 49 16	.5	1	.7	.3	N	.15	N	N	N	30
I686740	37 47 36	88 49 16	.5	3	1	.7	N	.3	N	N	N	50
I686760	37 47 36	88 49 16	.2	1.5	.7	.2	N	.2	N	N	N	50
I686780	37 47 36	88 49 16	.7	3	1	.3	N	.2	N	N	N	70
I686790	37 47 36	88 49 16	.3	2	.5	.2	N	.2	N	N	N	50
I686800	37 47 36	88 49 16	.5	1	.5	.2	N	.1	N	N	N	20
I686820	37 47 36	88 49 16	.5	1	.7	<.2	N	.15	N	N	N	30
I686850	37 47 36	88 49 16	.5	2	1	.5	N	.5	N	N	N	100
I686880	37 47 36	88 49 16	.2	1.5	.7	.3	N	.2	N	N	N	70
I686910	37 47 36	88 49 16	.15	1	.5	<.2	N	.1	N	N	N	30
I686940	37 47 36	88 49 16	.7	.5	.3	N	N	.07	N	N	N	30
I686970	37 47 36	88 49 16	.2	1.5	.7	.3	N	.2	N	N	N	50
I687000	37 47 36	88 49 16	.2	1	.7	.7	N	.15	N	N	N	50
I687030	37 47 36	88 49 16	.5	2	1	.7	N	.2	N	N	N	50
I687060	37 47 36	88 49 16	.05	1.5	1	.7	N	.2	N	N	N	30
I687090	37 47 36	88 49 16	<.05	2	1	1	N	.3	N	N	N	30
I687120	37 47 36	88 49 16	.15	1.5	.5	.3	N	.15	N	N	N	50
I687150	37 47 36	88 49 16	<.05	2	.7	.7	N	.3	N	N	N	70
I687180	37 47 36	88 49 16	.15	2	1.5	.5	N	.2	N	N	N	30
I687210	37 47 36	88 49 16	.05	1.5	1	.5	N	.2	N	N	N	20
I687240	37 47 36	88 49 16	.2	2	1.5	.5	N	.3	N	N	N	70
I687270	37 47 36	88 49 16	1	1.5	1.5	.5	N	.2	N	N	N	70
I687300	37 47 36	88 49 16	10	1	1	.3	N	.15	N	N	N	50
I687330	37 47 36	88 49 16	.15	1.5	2	.5	N	.3	N	N	N	30
I687360	37 47 36	88 49 16	.15	1	1.5	.5	N	.3	N	N	N	20
I687390	37 47 36	88 49 16	.05	.7	.7	.2	N	.15	N	N	N	15
I687420	37 47 36	88 49 16	N	.2	.15	N	N	.05	N	N	N	15
I687450	37 47 36	88 49 16	<.05	.7	.3	.2	N	.2	N	N	N	20
I687480	37 47 36	88 49 16	<.05	.7	.5	<.2	N	.2	N	N	N	20
I687510	37 47 36	88 49 16	.05	1	.7	.2	N	.2	N	N	N	30
I687540	37 47 36	88 49 16	N	.5	.2	N	N	.1	N	N	N	20
I687570	37 47 36	88 49 16	<.05	1.5	1	.3	N	.3	N	N	N	30
I687600	37 47 36	88 49 16	<.05	1	.5	<.2	N	.2	N	N	N	50
I687630	37 47 36	88 49 16	N	.3	.1	N	N	.03	N	N	N	15
I687650	37 47 36	88 49 16	N	.1	.03	N	N	.01	N	N	N	10
I687680	37 47 36	88 49 16	N	.15	.02	N	N	.01	N	N	N	N
I687710	37 47 36	88 49 16	N	<.05	.02	N	N	.005	N	N	N	N
I687740	37 47 36	88 49 16	N	.5	.15	N	N	.07	N	N	N	15
I687760	37 47 36	88 49 16	N	.5	.07	N	N	.03	N	N	N	20
I687790	37 47 36	88 49 16	N	.5	.1	N	N	.05	N	N	N	15
I687820	37 47 36	88 49 16	.05	1	.2	N	N	.1	N	N	N	30
I687850	37 47 36	88 49 16	<.05	.7	.1	N	N	.03	N	N	N	15

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I686440	300	1.5	N	N	10	70	30	50	N	<50	300	<5	N
I686460	300	1.5	N	N	15	70	30	70	N	<50	200	<5	N
I686480	300	1	N	N	10	50	30	70	N	<50	500	<5	N
I686500	50	N	N	N	N	N	7	<5	N	N	30	N	N
I686520	70	N	N	N	N	20	30	20	N	N	20	5	N
I686530	70	N	N	N	<10	15	5	10	N	N	15	N	N
I686540	100	N	N	N	N	20	15	7	N	N	20	N	N
I686560	200	2	N	N	N	20	15	15	N	N	100	N	N
I686580	300	N	N	N	<10	10	5	10	N	N	30	N	N
I686590	50	N	N	N	N	<10	<5	5	N	N	30	N	N
I686600	200	1.5	N	N	15	100	30	100	N	50	70	N	<20
I686610	150	1	N	N	<10	70	10	70	N	<50	10	N	<20
I686620	100	1	N	N	10	100	20	70	N	N	20	N	N
I686640	100	<1	N	N	N	50	10	50	N	N	10	N	N
I686660	100	<1	N	N	<10	70	10	50	N	N	20	N	N
I686680	70	<1	N	N	<10	50	30	20	N	N	15	N	N
I686700	300	<1	N	N	<10	50	7	30	N	N	30	N	N
I686720	100	N	N	N	<10	30	20	20	N	N	30	N	N
I686730	50	N	N	N	N	20	5	15	N	N	<10	N	N
I686740	150	<1	N	N	20	70	15	30	N	N	100	N	N
I686760	100	N	N	N	N	15	10	10	N	N	15	N	N
I686780	300	1	N	N	N	20	20	30	N	N	150	N	N
I686790	100	N	N	N	N	<10	10	15	N	N	20	<5	N
I686800	70	N	N	N	N	<10	10	N	N	N	30	N	N
I686820	150	N	N	N	N	<10	70	N	N	N	10	N	N
I686850	200	<1	N	20	N	50	20	50	N	N	30	N	<20
I686880	100	N	N	N	N	15	15	10	N	N	10	N	N
I686910	30	N	N	N	N	N	5	N	N	N	<10	N	N
I686940	20	N	N	N	N	N	20	N	N	N	<10	N	N
I686970	100	N	N	N	N	20	10	15	N	N	15	N	N
I687000	100	N	N	N	N	15	10	20	N	N	20	N	N
I687030	100	N	N	N	N	30	20	50	N	N	50	N	N
I687060	150	N	N	N	N	30	20	20	N	N	<10	<5	N
I687090	150	N	N	N	N	70	15	70	N	N	10	<5	N
I687120	500	N	N	N	N	20	7	10	N	N	<10	N	N
I687150	150	<1	N	N	<10	70	15	30	N	N	<10	N	N
I687180	700	N	N	N	<10	70	20	50	N	N	30	<5	N
I687210	150	N	N	N	<10	50	20	50	N	N	10	<5	N
I687240	500	N	N	N	<10	70	30	30	N	N	20	5	N
I687270	700	N	N	N	<10	30	30	50	N	N	10	7	N
I687300	500	N	N	N	N	10	7	15	N	N	10	<5	N
I687330	700	N	N	N	<10	30	15	30	N	N	15	<5	N
I687360	1,500	N	N	N	N	20	7	15	N	N	10	N	N
I687390	300	N	N	N	N	<10	5	<5	N	N	<10	N	N
I687420	150	N	N	N	N	N	<5	N	N	N	N	N	N
I687450	200	N	N	N	N	<10	5	7	N	N	<10	N	N
I687480	150	N	N	N	N	<10	<5	5	N	N	<10	N	N
I687510	100	N	N	N	N	15	20	20	N	N	10	<5	N
I687540	30	N	N	N	N	N	5	N	N	N	N	5	N
I687570	300	N	N	N	N	20	20	30	N	N	15	<5	N
I687600	70	N	N	N	N	<10	15	10	N	N	10	<5	N
I687630	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I687650	N	N	N	N	N	N	N	N	N	N	N	N	N
I687680	N	N	N	N	N	N	N	N	N	N	N	N	N
I687710	N	N	N	N	N	N	5	N	N	N	N	N	N
I687740	<20	N	N	N	N	N	7	N	N	N	N	N	N
I687760	N	N	N	N	N	N	<5	N	N	N	N	N	N
I687790	<20	N	N	N	N	N	5	N	N	N	N	N	N
I687820	30	N	N	N	N	<10	10	<5	N	N	<10	N	N
I687850	20	N	N	N	N	N	<5	N	N	N	N	N	N

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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 #
I686440	15	10	N	7	N	N	N	100	N	10	N	70	.07	22
I686460	15	10	N	7	N	N	N	100	N	10	N	70	.09	22
I686480	15	15	N	5	N	<100	N	100	N	15	N	30	.18	25
I686500	<5	N	N	N	N	N	N	15	N	N	N	15	.03	25
I686520	10	20	N	N	N	N	N	30	N	N	N	50	.06	25
I686530	15	N	N	N	N	N	N	50	N	N	N	50	.05	25
I686540	7	10	N	<5	N	N	N	100	N	N	N	30	.04	25
I686560	10	<10	N	<5	N	N	N	70	N	N	N	100	.06	25
I686580	30	N	N	<5	N	N	N	70	N	N	N	20	.03	25
I686590	15	10	N	N	N	N	N	30	N	N	N	30	.03	25
I686600	30	15	N	10	N	N	N	150	N	10	N	70	.07	25
I686610	30	N	N	5	N	N	N	150	N	<10	N	100	.06	25
I686620	20	<10	N	7	N	N	N	100	N	<10	N	70	.06	26
I686640	20	N	N	<5	N	N	N	100	N	N	N	70	.07	26
I686660	30	<10	N	7	N	N	N	150	N	<10	N	50	.05	26
I686680	20	N	N	5	N	N	N	70	30	N	N	50	.07	26
I686700	15	20	N	5	N	N	N	70	N	<10	N	50	.05	26
I686720	20	30	N	<5	N	N	N	50	N	N	N	50	.05	26
I686730	10	10	N	N	N	N	N	100	N	N	N	30	.05	26
I686740	30	50	N	5	N	N	N	100	N	<10	N	70	.06	26
I686760	20	N	N	N	N	N	N	50	20	N	N	50	.07	26
I686780	10	15	N	<5	N	N	N	70	N	N	N	70	.08	26
I686790	10	N	N	N	N	N	N	30	N	N	N	70	.06	26
I686800	5	N	N	N	N	N	N	20	N	N	<200	50	.07	26
I686820	5	N	N	N	N	N	N	20	N	N	N	30	.11	26
I686850	20	N	N	<5	N	N	N	100	N	N	1,000	70	.15	26
I686880	15	N	N	N	N	N	N	30	N	N	N	30	.1	26
I686910	10	N	N	N	N	N	N	15	N	N	N	15	.05	26
I686940	7	N	N	N	N	N	N	10	N	N	N	10	.04	26
I686970	10	<10	N	N	N	N	N	20	N	N	N	70	.08	26
I687000	15	<10	N	N	N	N	N	30	N	N	N	70	.09	26
I687030	20	10	N	<5	N	N	N	70	N	N	N	70	.13	26
I687060	20	<10	N	N	N	N	N	50	N	N	N	50	.18	26
I687090	15	N	N	N	N	N	N	50	N	N	N	50	.24	26
I687120	10	N	N	N	N	N	N	30	N	N	N	30	.11	26
I687150	20	<10	N	<5	N	N	N	100	N	N	N	70	.08	26
I687180	20	<10	N	<5	N	N	N	70	N	N	N	70	.22	26
I687210	15	<10	N	N	N	N	N	70	N	N	N	50	.3	26
I687240	20	<10	N	<5	N	N	N	100	N	N	N	70	.5	26
I687270	20	<10	N	N	N	<100	N	70	N	N	N	50	1	26
I687300	10	N	N	N	N	5,000	N	30	N	N	N	50	.28	26
I687330	20	N	N	N	N	<100	N	50	N	N	N	70	.42	26
I687360	15	N	N	N	N	1,500	N	50	N	N	N	300	.36	26
I687390	7	N	N	N	N	N	N	30	N	N	N	150	.22	26
I687420	5	N	N	N	N	N	N	15	N	N	N	50	.06	26
I687450	10	N	N	N	N	N	N	50	N	N	N	70	.07	26
I687480	10	N	N	N	N	N	N	30	N	N	N	70	.07	26
I687510	15	10	N	N	N	N	N	50	<20	N	N	100	.13	26
I687540	7	N	N	N	N	N	N	20	N	N	N	50	.05	26
I687570	10	10	N	N	N	N	N	30	N	N	N	100	.09	26
I687600	15	N	N	N	N	N	N	30	N	N	N	100	.06	26
I687630	5	N	N	N	N	N	N	<10	N	N	N	20	.03	26
I687650	<5	N	N	N	N	N	N	N	N	N	N	70	.01	26
I687680	5	N	N	N	N	N	N	N	N	N	N	10	.01	32
I687710	<5	N	N	N	N	N	N	N	N	N	N	50	.01	32
I687740	15	<10	N	N	N	N	N	15	20	N	N	70	.03	32
I687760	5	N	N	N	N	N	N	10	N	N	N	100	.02	32
I687790	7	N	N	N	N	N	N	15	N	N	N	150	.02	32
I687820	10	N	N	N	N	N	N	20	<20	N	N	70	.02	32
I687850	7	N	N	N	N	N	N	<10	<20	N	N	30	.02	32

TABLE 40--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I68, 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
I687910	37 47 36	88 49 16	N	.15	.03	N	N	.015	N	N	N	N
I687970	37 47 36	88 49 16	N	.2	.07	N	N	.02	N	N	N	10
I688030	37 47 36	88 49 16	N	.15	.05	N	N	.02	N	N	N	10
I688090	37 47 36	88 49 16	N	.15	.03	N	N	.015	N	N	N	N
I688150	37 47 36	88 49 16	N	.7	.15	N	N	.07	N	N	N	20
I688180	37 47 36	88 49 16	N	.7	.2	N	N	.07	N	N	N	20
I688210	37 47 36	88 49 16	N	.5	.15	N	N	.07	N	N	N	20
I688240	37 47 36	88 49 16	N	.5	.15	N	N	.07	N	N	N	20
I688300	37 47 36	88 49 16	N	.5	.1	N	N	.03	N	N	N	15
I688360	37 47 36	88 49 16	<.05	1.5	1	.2	N	.2	N	N	N	70
I688390	37 47 36	88 49 16	<.05	1.5	1	.2	N	.2	N	N	N	50
I688420	37 47 36	88 49 16	<.05	1	.7	N	N	.15	N	N	N	70
I688450	37 47 36	88 49 16	<.05	.7	.15	N	N	.05	N	N	N	50
I688480	37 47 36	88 49 16	.1	1	.7	<.2	N	.15	N	N	N	70
I688500	37 47 36	88 49 16	.15	1	.5	N	N	.07	N	N	N	20

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
I687910	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I687970	N	N	N	N	N	N	<5	N	N	N	N	N	N
I688030	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I688090	70	N	N	N	N	N	<5	N	N	N	N	N	N
I688150	300	N	N	N	N	N	7	<5	N	N	<10	5	N
I688180	500	N	N	N	N	N	7	5	N	N	<10	<5	N
I688210	70	N	N	N	N	N	<5	N	N	N	N	<5	N
I688240	50	N	N	N	N	N	5	N	N	N	N	N	N
I688300	30	N	N	N	N	N	<5	N	N	N	N	N	N
I688360	200	<1	N	N	<10	30	20	20	N	N	<10	7	N
I688390	70	N	N	N	<10	20	15	20	N	N	10	20	N
I688420	70	N	N	N	<10	10	7	15	N	N	N	10	N
I688450	50	N	N	N	N	N	5	5	N	N	N	<5	N
I688480	100	N	N	N	N	10	10	15	N	N	N	5	N
I688500	20	N	N	N	N	N	7	5	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 #
I687910	5	N	N	N	N	N	N	N	20	N	N	20	<.01	32
I687970	5	N	N	N	N	N	N	<10	100	N	N	30	.02	32
I688030	5	N	N	N	N	N	N	<10	30	N	N	70	.02	32
I688090	5	N	N	N	N	1,500	N	N	70	N	N	15	.02	32
I688150	10	N	N	N	N	>5,000	N	15	<20	N	N	70	.04	32
I688180	10	N	N	N	N	>5,000	N	15	N	N	N	70	.05	32
I688210	10	N	N	N	N	N	N	15	N	N	N	70	.03	32
I688240	7	N	N	N	N	N	N	15	N	N	N	100	.04	32
I688300	7	N	N	N	N	N	N	10	N	N	N	100	.05	32
I688360	30	<10	N	N	N	N	N	70	N	N	N	100	.12	32
I688390	15	<10	N	N	N	N	N	50	N	N	N	70	.1	32
I688420	15	<10	N	N	N	N	N	30	N	N	N	70	.09	32
I688450	7	10	N	N	N	N	N	10	<20	N	N	30	.06	32
I688480	15	200	N	N	N	N	N	20	N	N	N	70	.08	32
I688500	10	10	N	N	N	N	N	10	N	N	N	15	.04	32

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I690640	37 55 55	89 17 23	<.05	5	.7	N	N	.3	<.5	N	N	50
I690660	37 55 55	89 17 23	N	1	.07	N	N	.07	N	N	N	10
I690680	37 55 55	89 17 23	.05	3	.7	<.2	N	.2	2	N	N	20
I690710	37 55 55	89 17 23	.07	2	1	<.2	N	.5	N	N	N	70
I690820	37 55 55	89 17 23	<.05	1.5	.2	N	N	.15	N	N	N	15
I690840	37 55 55	89 17 23	N	3	.7	.3	N	.5	N	N	N	30
I690860	37 55 55	89 17 23	<.05	5	2	.5	N	.3	N	N	N	50
I690890	37 55 55	89 17 23	N	3	1.5	1	N	.2	N	N	N	20
I690950	37 55 55	89 17 23	<.05	2	.7	<.2	N	.15	N	N	N	20
I690970	37 55 55	89 17 23	<.05	3	1	<.2	N	.2	N	N	N	30
I690990	37 55 55	89 17 23	N	1	.15	N	N	.1	N	N	N	10
I691010	37 55 55	89 17 23	<.05	3	1	.7	N	.15	N	N	N	20
I691030	37 55 55	89 17 23	N	2	.7	<.2	N	.2	N	N	N	30
I691060	37 55 55	89 17 23	N	3	1.5	1	N	.2	N	N	N	30
I691100	37 55 55	89 17 23	<.05	5	2	.5	N	.3	N	N	N	50
I691190	37 55 55	89 17 23	<.05	5	2	.7	N	.3	N	N	N	30
I691220	37 55 55	89 17 23	.07	3	1.5	.7	N	.15	N	N	N	30
I691240	37 55 55	89 17 23	<.05	2	1.5	.3	N	.3	N	N	N	30
I691290	37 55 55	89 17 23	.07	5	2	1	N	.5	N	N	N	50
I691305	37 55 55	89 17 23	.05	1.5	1.5	.3	N	.15	N	N	N	30
I691340	37 55 55	89 17 23	.07	5	3	1	N	.2	N	N	N	50
I691355	37 55 55	89 17 23	.1	7	2	.7	N	.3	N	N	N	70
I691420	37 55 55	89 17 23	.05	7	2	.5	N	.3	N	N	N	70
I691660	37 55 55	89 17 23	<.05	3	1.5	1	N	.3	N	N	N	50
I691685	37 55 55	89 17 23	<.05	5	2	.7	N	.5	N	N	N	70
I691795	37 55 55	89 17 23	<.05	5	1.5	.3	N	.3	N	N	N	50
I691815	37 55 55	89 17 23	<.05	7	1.5	.3	N	.5	N	N	N	50
I691835	37 55 55	89 17 23	N	3	1.5	.5	N	.3	N	N	N	30
I691855	37 55 55	89 17 23	N	2	.7	.2	N	.15	N	N	N	15
I691875	37 55 55	89 17 23	<.05	3	1	.5	N	.2	N	N	N	15
I691895	37 55 55	89 17 23	<.05	5	1.5	.3	N	.2	N	N	N	15
I691915	37 55 55	89 17 23	.15	7	2	.5	N	.3	N	N	N	70
I691935	37 55 55	89 17 23	<.05	7	1.5	.3	N	.2	N	N	N	50
I691955	37 55 55	89 17 23	.05	7	1.5	.2	N	.2	N	N	N	30
I691975	37 55 55	89 17 23	.07	5	2	N	N	.2	N	N	N	50
I691995	37 55 55	89 17 23	<.05	7	1.5	.7	N	.3	N	N	N	50
I692015	37 55 55	89 17 23	.1	5	1.5	1	N	.3	N	N	N	30
I692035	37 55 55	89 17 23	.07	2	1	N	N	.3	N	N	N	70
I692055	37 55 55	89 17 23	.05	3	1.5	.3	N	.3	N	N	N	50
I692075	37 55 55	89 17 23	<.05	5	1.5	.3	N	.3	N	N	N	30
I692095	37 55 55	89 17 23	.05	3	1	.2	N	.2	N	N	N	50
I692115	37 55 55	89 17 23	.07	7	1.5	.3	N	.2	N	N	N	30
I692135	37 55 55	89 17 23	.07	3	1.5	.2	N	.3	N	N	N	50
I692155	37 55 55	89 17 23	<.05	5	2	.5	N	.3	N	N	N	50
I692175	37 55 55	89 17 23	.07	3	1.5	.3	N	.3	N	N	N	30
I692195	37 55 55	89 17 23	.07	5	1.5	.7	N	.5	N	N	N	70
I692220	37 55 55	89 17 23	.07	5	1.5	.5	N	.5	N	N	N	50
I692240	37 55 55	89 17 23	.07	5	1.5	.5	N	.3	N	N	N	70
I692260	37 55 55	89 17 23	.07	3	1	1.5	N	.3	N	N	N	50
I692280	37 55 55	89 17 23	.1	3	2	.7	N	.2	N	N	N	50
I692300	37 55 55	89 17 23	.1	7	1.5	.5	N	.2	N	N	N	30
I692320	37 55 55	89 17 23	.05	5	1.5	.7	N	.3	N	N	N	50
I692340	37 55 55	89 17 23	.1	5	2	.7	N	.3	N	N	N	50
I692360	37 55 55	89 17 23	.07	7	1.5	.5	N	.2	N	N	N	30
I692380	37 55 55	89 17 23	.07	7	1.5	.5	N	.3	N	N	N	70
I692400	37 55 55	89 17 23	.05	3	1	1	N	.2	N	N	N	50
I692420	37 55 55	89 17 23	.07	5	1.5	.3	N	.5	N	N	N	50
I692440	37 55 55	89 17 23	.1	7	1.5	.7	N	.3	N	N	N	50
I692460	37 55 55	89 17 23	.07	5	1.5	.2	N	.3	N	N	N	30
I692480	37 55 55	89 17 23	<.05	2	1	.5	N	.2	N	N	N	30

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I690640	200	N	N	N	10	30	30	15	N	<50	500	<5	<20
I690660	70	N	N	N	N	<10	15	N	N	N	<10	N	N
I690680	300	N	N	N	<10	20	20	15	N	N	300	5	N
I690710	500	1	N	N	10	30	20	20	N	<50	70	<5	<20
I690820	150	N	N	N	N	30	20	<5	N	N	30	N	N
I690840	500	<1	N	N	<10	200	30	20	N	<50	50	15	N
I690860	1,000	1	N	N	10	70	15	50	N	<50	150	N	N
I690890	300	<1	N	N	<10	70	20	70	N	N	50	N	N
I690950	1,000	N	N	N	<10	30	20	7	N	N	100	5	N
I690970	700	<1	N	N	<10	100	30	20	N	N	30	10	<20
I690990	300	N	N	N	N	30	10	N	N	N	10	5	N
I691010	200	<1	N	N	<10	100	15	30	N	N	50	7	N
I691030	500	N	N	N	<10	20	20	15	N	N	15	<5	N
I691060	150	<1	N	N	<10	70	30	30	N	N	20	N	N
I691100	700	<1	N	N	10	100	20	70	N	N	50	<5	N
I691190	300	<1	N	N	15	100	15	50	N	N	20	<5	N
I691220	700	<1	N	N	<10	100	15	30	N	N	30	N	N
I691240	300	<1	N	N	<10	70	30	30	N	N	15	N	N
I691290	200	<1	N	N	10	100	10	50	N	<50	20	<5	N
I691305	50	N	N	N	N	20	20	20	N	N	10	N	N
I691340	300	<1	N	N	<10	70	20	70	N	N	10	N	N
I691355	500	1	N	N	<10	70	15	30	N	N	20	N	N
I691420	500	1	N	N	10	70	10	50	N	N	30	N	N
I691660	150	<1	N	N	<10	50	5	50	N	N	10	N	N
I691685	100	<1	N	N	<10	70	20	70	N	<50	30	N	N
I691795	500	<1	N	N	<10	50	15	30	N	N	20	N	N
I691815	500	<1	N	N	10	200	20	50	N	N	50	20	N
I691835	100	N	N	N	<10	70	10	50	N	N	10	N	N
I691855	150	N	N	N	N	20	5	20	N	N	15	N	N
I691875	300	N	N	N	<10	70	7	30	N	N	20	<5	N
I691895	300	N	N	N	<10	100	20	30	N	N	30	10	N
I691915	700	<1	N	N	10	150	30	100	N	<50	70	7	N
I691935	500	<1	N	N	10	100	20	70	N	N	20	7	N
I691955	300	N	N	N	10	50	10	50	N	N	100	N	N
I691975	1,500	1	N	30	<10	70	15	50	N	N	30	<5	N
I691995	1,000	<1	N	N	10	300	15	70	N	N	30	15	N
I692015	200	<1	N	N	10	70	15	70	N	N	70	N	N
I692035	3,000	<1	N	N	10	70	15	30	N	N	20	7	N
I692055	300	1	N	N	20	150	10	50	N	N	30	10	N
I692075	500	<1	N	N	10	150	50	50	N	N	20	7	N
I692095	200	N	N	N	<10	70	20	15	N	N	20	5	N
I692115	700	N	N	N	<10	50	10	30	N	N	100	N	N
I692135	300	<1	N	N	<10	70	15	20	N	N	50	N	N
I692155	500	1	N	N	10	200	50	70	N	N	50	15	N
I692175	100	<1	N	N	<10	70	300	50	N	N	20	<5	N
I692195	200	1	N	N	10	100	20	50	N	50	20	N	N
I692220	500	1	N	N	10	100	15	70	N	<50	20	N	N
I692240	300	<1	N	N	10	150	70	50	N	<50	30	5	N
I692260	700	1	N	N	15	100	30	30	N	<50	30	<5	N
I692280	300	<1	N	N	<10	100	20	30	N	<50	30	N	N
I692300	100	<1	N	N	10	100	10	30	N	N	100	N	N
I692320	200	1.5	N	N	<10	70	15	50	N	N	50	N	N
I692340	2,000	1	N	N	10	200	20	70	N	N	70	7	N
I692360	200	<1	N	N	10	70	15	50	N	N	50	N	N
I692380	200	1	N	N	10	100	20	30	N	N	70	<5	N
I692400	500	N	N	N	<10	70	15	30	N	N	50	N	N
I692420	1,500	N	N	N	<10	70	50	70	N	N	50	N	N
I692440	700	<1	N	N	10	100	15	70	N	N	100	N	N
I692460	300	<1	N	N	<10	30	10	20	N	N	70	N	N
I692480	200	N	N	N	<10	100	10	30	N	N	10	N	N

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 169, 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 #
I690640	15	30	N	5	N	N	N	70	20	<10	<200	100	.02	2
I690660	5	N	N	N	N	N	N	15	50	N	N	50	.01	2
I690680	10	300	N	<5	N	N	N	30	70	N	N	70	.03	2
I690710	20	150	N	5	N	N	N	50	70	<10	<200	150	.04	2
I690820	5	100	N	N	N	N	N	20	<20	N	N	100	.02	2
I690840	20	20	N	<5	N	N	N	30	<20	<10	N	100	.02	2
I690860	30	15	N	7	N	N	N	50	<20	10	N	70	.03	2
I690890	20	20	N	5	N	N	N	30	N	N	N	30	.02	2
I690950	15	500	N	<5	N	N	N	30	150	N	N	150	.02	2
I690970	20	200	N	<5	N	N	N	50	500	N	N	70	.02	2
I690990	7	15	N	N	N	N	N	15	500	N	N	30	.02	2
I691010	15	70	N	<5	N	N	N	30	100	N	N	20	.07	2
I691030	15	<10	N	<5	N	N	N	50	30	N	N	70	.03	2
I691060	20	200	N	<5	N	N	N	20	50	N	N	50	.04	2
I691100	30	700	N	5	N	N	N	50	30	<10	N	70	.04	2
I691190	30	100	N	5	N	N	N	50	<20	<10	N	50	.05	2
I691220	20	20	N	5	N	N	N	30	N	N	N	30	.05	2
I691240	15	15	N	5	N	N	N	50	N	N	N	50	.04	2
I691290	20	30	N	7	N	N	N	50	N	<10	N	50	.06	2
I691305	10	100	N	<5	N	N	N	30	N	N	N	20	.06	2
I691340	15	20	N	5	N	N	N	50	N	N	N	30	.07	2
I691355	20	15	N	5	N	N	N	70	N	N	N	70	.06	2
I691420	20	15	N	5	N	N	N	70	<20	N	N	50	.03	4
I691660	15	10	N	5	N	N	N	50	N	N	N	70	.04	5
I691685	20	15	N	7	N	N	N	70	N	<10	N	50	.05	5
I691795	20	15	N	<5	N	N	N	50	100	N	N	70	.03	6
I691815	30	200	N	5	N	N	N	70	50	<10	N	100	.03	7
I691835	20	10	N	<5	N	N	N	70	N	N	N	70	.04	7
I691855	10	50	N	N	N	N	N	30	20	N	N	70	.03	7
I691875	15	150	N	<5	N	N	N	50	30	N	N	70	.04	7
I691895	20	1,000	N	<5	N	N	N	50	100	N	N	50	.06	7
I691915	30	200	N	7	N	N	N	70	N	<10	N	100	.04	7
I691935	30	20	N	<5	N	N	N	70	100	N	N	70	.04	7
I691955	20	500	N	<5	N	N	N	70	50	N	500	70	.04	7
I691975	20	100	N	5	N	N	N	70	N	N	2,000	50	.05	7
I691995	30	150	N	7	N	N	N	70	<20	<10	300	70	.05	7
I692015	20	300	N	5	N	N	N	50	N	<10	200	70	.05	7
I692035	20	150	N	<5	N	N	N	50	70	N	200	70	.03	7
I692055	30	30	N	5	N	N	N	70	50	<10	200	100	.04	7
I692075	20	50	N	5	N	N	N	50	30	N	<200	70	.04	7
I692095	15	200	N	<5	N	N	N	50	20	N	<200	30	.04	7
I692115	20	30	N	5	N	N	N	50	<20	<10	<200	50	.04	7
I692135	20	100	N	5	N	N	N	50	N	<10	<200	50	.05	7
I692155	30	300	N	7	N	N	N	70	30	<10	200	50	.06	7
I692175	20	50	N	<5	N	N	N	70	N	N	200	50	.1	7
I692195	20	20	N	7	N	N	N	100	N	10	<200	70	.07	7
I692220	20	50	N	7	N	N	N	100	N	<10	<200	50	.06	7
I692240	20	200	N	7	N	N	N	100	N	<10	200	50	.06	7
I692260	20	20	N	7	N	N	N	70	N	<10	<200	70	.06	7
I692280	15	500	N	5	N	<100	N	70	<20	N	200	50	.06	7
I692300	20	15	N	5	N	N	N	50	N	<10	<200	70	.07	7
I692320	20	1,000	N	5	N	N	N	50	N	<10	N	70	.06	7
I692340	30	300	N	7	N	N	N	70	N	<10	N	50	.06	7
I692360	20	200	N	<5	N	N	N	50	N	N	<200	30	.06	7
I692380	30	1,000	N	5	N	N	N	50	N	N	200	50	.07	7
I692400	15	700	N	<5	N	N	N	50	N	N	<200	30	.07	7
I692420	20	500	N	<5	N	N	N	70	<20	<10	<200	100	.09	7
I692440	20	300	N	5	N	N	N	70	20	<10	<200	70	.13	7
I692460	15	100	N	<5	N	N	N	70	N	N	<200	30	.06	7
I692480	15	15	N	<5	N	N	N	50	N	N	N	50	.06	7

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I692500	37 55 55	89 17 23	.05	3	1.5	1	N	.5	N	N	N	50
I692520	37 55 55	89 17 23	<.05	2	1.5	.7	N	.3	N	N	N	50
I692540	37 55 55	89 17 23	<.05	5	1	.2	N	.2	N	N	N	30
I692560	37 55 55	89 17 23	.15	5	1.5	.3	N	.3	N	N	N	30
I692580	37 55 55	89 17 23	.2	7	2	.5	N	.3	N	N	N	50
I692600	37 55 55	89 17 23	.07	5	1.5	.3	N	.2	N	N	N	30
I692620	37 55 55	89 17 23	.07	7	2	.5	N	.3	N	N	N	70
I692640	37 55 55	89 17 23	.07	10	2	.7	N	.2	N	N	N	30
I692660	37 55 55	89 17 23	.15	7	1.5	.3	N	.2	N	N	N	50
I692680	37 55 55	89 17 23	.1	2	1	<.2	N	.15	N	N	N	30
I692700	37 55 55	89 17 23	.05	1.5	1	.2	N	.2	N	N	N	30
I692710	37 55 55	89 17 23	.07	3	1	.5	N	.3	N	N	N	30
I693260	37 55 55	89 17 23	.15	5	1	1	N	.3	N	N	N	100
I693270	37 55 55	89 17 23	.05	3	1.5	.3	N	.2	N	N	N	70
I693272	37 55 55	89 17 23	<.05	2	1.5	.3	N	.2	N	N	N	50
I693274	37 55 55	89 17 23	.07	3	1	.2	N	.2	N	N	N	50
I693295	37 55 55	89 17 23	.05	2	1	<.2	N	.2	N	N	N	50
I693315	37 55 55	89 17 23	.05	1.5	.5	N	N	.15	N	N	N	50
I693335	37 55 55	89 17 23	<.05	1	.3	N	N	.15	N	N	N	30
I693355	37 55 55	89 17 23	.15	1.5	1	<.2	N	.15	N	N	N	30
I693375	37 55 55	89 17 23	.2	2	1	<.2	N	.2	N	N	N	70
I693395	37 55 55	89 17 23	.15	1	.2	N	N	.07	N	N	N	15
I693415	37 55 55	89 17 23	.1	1.5	.3	N	N	.1	N	N	N	15
I693435	37 55 55	89 17 23	20	1	1	N	N	.07	N	N	N	10
I693455	37 55 55	89 17 23	.15	5	1.5	.3	N	.3	N	N	N	50
I693475	37 55 55	89 17 23	.15	5	1.5	.7	N	.2	N	N	N	50
I693495	37 55 55	89 17 23	5	1	1	<.2	N	.1	N	N	N	20
I693515	37 55 55	89 17 23	.05	2	.5	<.2	N	.1	N	N	N	30
I693535	37 55 55	89 17 23	.07	1	.2	N	N	.1	N	N	N	30
I693552	37 55 55	89 17 23	.15	.5	.2	N	N	.03	N	N	N	30
I693585	37 55 55	89 17 23	.2	.3	.3	N	N	.03	N	N	N	30
I693605	37 55 55	89 17 23	.15	.2	.2	N	N	.02	N	N	N	15
I693625	37 55 55	89 17 23	.7	.7	1	N	N	.05	N	N	N	30
I693645	37 55 55	89 17 23	.5	.3	.7	N	N	.05	N	N	N	15
I693665	37 55 55	89 17 23	.7	.5	1	<.2	N	.05	N	N	N	20
I693685	37 55 55	89 17 23	1	.5	1	<.2	N	.05	N	N	N	15
I693705	37 55 55	89 17 23	.2	1.5	1	.2	N	.15	N	N	N	50
I693725	37 55 55	89 17 23	.7	1.5	1.5	.3	N	.1	N	N	N	30
I693745	37 55 55	89 17 23	.2	1	1.5	.3	N	.1	N	N	N	30
I693765	37 55 55	89 17 23	.15	1.5	2	.3	N	.15	N	N	N	20
I693785	37 55 55	89 17 23	.2	1	2	.2	N	.15	N	N	N	50
I693805	37 55 55	89 17 23	.15	1.5	2	.3	N	.15	N	N	N	30
I693825	37 55 55	89 17 23	.2	1.5	2	.3	N	.15	N	N	N	20
I693845	37 55 55	89 17 23	.2	1.5	2	.3	N	.15	N	N	N	30
I693865	37 55 55	89 17 23	.15	1	1	.2	N	.1	N	N	N	20
I693885	37 55 55	89 17 23	1	.7	1	<.2	N	.07	N	N	N	30
I693905	37 55 55	89 17 23	.7	.7	1	<.2	N	.07	N	N	N	30
I693925	37 55 55	89 17 23	.15	.3	.5	N	N	.05	N	N	N	15
I693945	37 55 55	89 17 23	.2	.7	.7	N	N	.07	N	N	N	20
I693965	37 55 55	89 17 23	.7	.5	.7	<.2	N	.07	N	N	N	20
I693985	37 55 55	89 17 23	.3	.7	.7	<.2	N	.07	N	N	N	15
I694005	37 55 55	89 17 23	.5	1	1.5	.3	N	.1	<.5	N	N	20
I694025	37 55 55	89 17 23	.3	1.5	2	.3	N	.15	N	N	N	30
I694045	37 55 55	89 17 23	.07	1.5	1.5	.5	N	.15	N	N	N	20
I694065	37 55 55	89 17 23	3	1.5	3	.5	N	.2	N	N	N	30
I694085	37 55 55	89 17 23	1	1.5	2	.3	N	.15	N	N	N	30
I694105	37 55 55	89 17 23	1.5	2	3	.7	N	.15	N	N	N	30
I694125	37 55 55	89 17 23	.1	5	3	1.5	N	.2	N	N	N	30
I694145	37 55 55	89 17 23	.1	5	3	1.5	N	.3	N	N	N	30
I694165	37 55 55	89 17 23	.07	3	3	1.5	N	.3	N	N	N	20

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I692500	300	<1	N	N	<10	100	15	50	N	<50	20	N	N
I692520	300	<1	N	N	<10	150	10	50	N	N	15	10	N
I692540	700	N	N	N	<10	30	10	20	N	N	100	N	N
I692560	2,000	N	N	N	<10	70	15	30	N	N	150	N	N
I692580	100	1	N	N	20	200	20	50	N	N	300	7	N
I692600	1,500	<1	N	N	10	50	15	20	N	N	150	N	N
I692620	1,000	1	N	N	10	70	30	70	N	N	200	N	N
I692640	700	N	N	N	10	70	20	50	N	N	300	N	N
I692660	5,000	N	N	N	15	50	50	30	N	N	200	N	N
I692680	100	N	N	N	N	20	7	10	N	N	20	N	N
I692700	150	N	N	N	N	20	5	15	N	N	15	<5	N
I692710	150	N	N	N	<10	30	5	20	N	N	30	N	N
I693260	300	1.5	N	N	20	50	50	30	N	N	50	50	N
I693270	100	<1	N	N	<10	50	20	20	N	N	20	<5	N
I693272	1,500	N	N	N	<10	200	20	20	N	N	20	20	N
I693274	100	N	N	N	N	20	15	15	N	N	30	<5	N
I693295	70	N	N	N	N	20	10	15	N	N	20	5	N
I693315	50	N	N	N	<10	<10	7	<5	N	N	10	N	N
I693335	500	N	N	N	N	30	5	5	N	N	<10	5	N
I693355	70	N	N	N	<10	20	15	10	N	N	30	N	N
I693375	70	<1	N	N	<10	20	10	10	N	N	30	5	N
I693395	20	N	N	N	N	<10	10	N	N	N	<10	N	N
I693415	20	N	N	N	N	10	5	<5	N	N	15	N	N
I693435	50	N	N	N	N	<10	<5	N	N	N	30	N	N
I693455	150	<1	N	N	15	50	15	30	N	N	70	<5	N
I693475	100	<1	N	N	<10	70	20	50	N	N	70	5	N
I693495	50	N	N	N	N	<10	<5	5	N	N	50	N	N
I693515	50	N	N	N	<10	10	10	10	N	N	30	N	N
I693535	20	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I693552	N	N	N	N	N	N	N	N	N	N	N	N	N
I693585	<20	N	N	N	N	N	10	N	N	N	<10	N	N
I693605	N	N	N	N	N	N	30	N	N	N	N	N	N
I693625	20	N	N	N	N	N	5	N	N	N	<10	N	N
I693645	20	N	N	N	N	N	N	N	N	N	N	N	N
I693665	30	N	N	N	N	N	<5	N	N	N	<10	N	N
I693685	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I693705	100	N	N	N	N	15	15	7	N	N	15	<5	N
I693725	70	N	N	N	N	10	15	5	N	N	20	N	N
I693745	100	N	N	N	N	<10	7	<5	N	N	20	N	N
I693765	70	N	N	N	N	15	5	7	N	N	10	N	N
I693785	100	N	N	N	N	10	5	<5	N	N	<10	N	N
I693805	70	N	N	N	N	15	5	7	N	N	10	N	N
I693825	100	N	N	N	N	15	<5	7	N	N	<10	N	N
I693845	70	N	N	N	N	20	5	10	N	N	10	N	N
I693865	50	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I693885	70	N	N	N	N	<10	N	N	N	N	<10	N	N
I693905	50	N	N	N	N	<10	7	N	N	N	<10	N	N
I693925	30	N	N	N	N	N	<5	N	N	N	N	N	N
I693945	20	N	N	N	N	N	<5	N	N	N	<10	N	N
I693965	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I693985	20	N	N	N	N	N	5	N	N	N	<10	N	N
I694005	300	N	N	N	N	10	7	5	N	N	10	N	N
I694025	70	N	N	N	N	10	20	7	N	N	15	N	N
I694045	50	N	N	N	N	15	7	10	N	N	<10	N	N
I694065	100	N	N	N	N	15	10	10	N	N	15	N	N
I694085	70	N	N	N	N	15	5	7	N	N	10	N	N
I694105	150	<1	N	N	<10	20	7	20	N	N	30	N	N
I694125	300	<1	N	N	10	70	20	50	N	N	30	N	N
I694145	300	<1	N	N	20	50	<5	30	N	N	50	5	N
I694165	200	<1	N	N	10	70	15	50	N	N	30	N	N

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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 #
I692500	15	15	N	5	N	N	N	100	N	<10	N	50	.06	7
I692520	10	100	N	5	N	N	N	70	N	N	N	50	.05	7
I692540	15	500	N	<5	N	N	N	50	N	N	<200	30	.05	7
I692560	15	200	N	<5	N	N	N	70	N	N	N	50	.07	7
I692580	150	200	N	7	N	N	N	100	N	<10	N	70	.06	7
I692600	20	2,000	N	5	N	N	N	70	<20	N	<200	50	.06	7
I692620	30	1,500	N	7	N	N	N	100	50	<10	<200	70	.06	7
I692640	20	5,000	N	5	N	N	N	70	20	<10	<200	50	.06	7
I692660	20	5,000	N	<5	N	N	N	70	30	N	<200	70	.05	7
I692680	10	200	N	N	N	N	N	50	30	N	N	30	.04	7
I692700	10	200	N	N	N	N	N	50	N	N	N	30	.04	7
I692710	15	100	N	<5	N	N	N	50	N	N	<200	50	.04	7
I693260	50	30	N	7	N	N	N	150	N	<10	N	70	.05	10
I693270	20	500	N	<5	N	N	N	70	N	N	N	50	.04	10
I693272	20	30	N	<5	N	N	N	70	30	N	N	50	.03	10
I693274	15	50	N	<5	N	N	N	50	N	N	N	30	.03	10
I693295	15	N	N	<5	N	N	N	50	20	N	N	70	.02	10
I693315	10	N	N	N	N	N	N	30	20	N	<200	30	.02	10
I693335	7	10	N	N	N	N	N	30	N	N	N	30	.02	10
I693355	10	150	N	N	N	N	N	50	N	N	N	30	.02	10
I693375	15	100	N	<5	N	N	N	50	150	N	N	50	.02	10
I693395	7	50	N	N	N	N	N	15	N	N	N	10	.01	10
I693415	10	10	N	N	N	N	N	15	N	N	N	15	.02	10
I693435	15	15	N	N	N	N	N	10	N	N	N	10	.01	10
I693455	30	2,000	N	5	N	<100	N	70	30	<10	N	30	.04	10
I693475	20	5,000	N	<5	N	N	N	70	N	N	N	30	.04	10
I693495	10	2,000	N	N	N	N	N	20	N	N	N	15	.03	10
I693515	15	15	N	N	N	N	N	30	N	N	N	30	.03	10
I693535	5	N	N	N	N	N	N	15	N	N	N	20	.03	10
I693552	<5	70	N	N	N	N	N	N	N	N	N	10	.01	10
I693585	N	N	N	N	N	N	N	N	N	N	N	10	.01	10
I693605	N	15	N	N	N	N	N	N	N	N	N	<10	.01	10
I693625	<5	N	N	N	N	N	N	15	N	N	N	20	.02	10
I693645	N	N	N	N	N	N	N	<10	N	N	N	20	.02	10
I693665	N	30	N	N	N	N	N	10	N	N	N	30	.03	10
I693685	<5	500	N	N	N	N	N	10	N	N	N	15	.03	10
I693705	10	20	N	N	N	N	N	30	N	N	N	70	.05	10
I693725	5	30	N	N	N	N	N	20	N	N	N	50	.05	10
I693745	5	<10	N	N	N	N	N	20	N	N	N	30	.07	10
I693765	5	20	N	N	N	N	N	30	N	N	N	50	.08	10
I693785	7	N	N	N	N	N	N	20	N	N	N	50	.08	10
I693805	7	<10	N	N	N	N	N	20	N	N	N	50	.07	10
I693825	7	N	N	N	N	N	N	30	N	N	N	50	.09	10
I693845	7	10	N	N	N	N	N	30	N	N	N	50	.09	10
I693865	5	N	N	N	N	N	N	20	N	N	N	70	.05	10
I693885	<5	10	N	N	N	N	N	15	N	N	N	30	.02	10
I693905	<5	<10	N	N	N	N	N	10	N	N	N	50	.03	10
I693925	N	N	N	N	N	N	N	N	N	N	N	30	.02	10
I693945	5	N	N	N	N	N	N	10	N	N	N	15	.03	10
I693965	<5	N	N	N	N	N	N	15	N	N	N	20	.03	10
I693985	5	100	N	N	N	N	N	15	N	N	N	15	.02	10
I694005	7	N	N	N	N	N	N	30	N	N	N	50	.04	10
I694025	7	N	N	N	N	N	N	30	N	N	N	30	.05	10
I694045	7	<10	N	N	N	N	N	20	N	N	N	30	.06	10
I694065	7	20	N	N	N	N	N	30	N	N	N	30	.06	10
I694085	7	150	N	N	N	N	N	30	N	N	N	20	.06	10
I694105	10	<10	N	<5	N	N	N	50	N	N	N	50	.07	15
I694125	20	<10	N	<5	N	N	N	50	N	N	N	70	.1	15
I694145	15	70	N	<5	N	N	N	50	150	N	N	70	.08	15
I694165	15	100	N	<5	N	N	N	50	N	N	N	50	.08	15

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I694185	37 55 55	89 17 23	.07	3	2	1	N	.3	N	N	N	70
I694205	37 55 55	89 17 23	.3	5	3	1	N	.3	N	N	N	50
I694225	37 55 55	89 17 23	.05	5	2	1	N	.2	N	N	N	50
I694245	37 55 55	89 17 23	.05	7	3	1.5	N	.3	N	N	N	70
I694265	37 55 55	89 17 23	.07	3	3	1.5	N	.2	N	N	N	50
I694285	37 55 55	89 17 23	.15	5	3	2	N	.3	N	N	N	70
I694305	37 55 55	89 17 23	<.05	5	2	1.5	N	.3	N	N	N	30
I694325	37 55 55	89 17 23	.05	3	1.5	.5	N	.3	N	N	N	30
I694345	37 55 55	89 17 23	.3	7	2	.3	N	.3	N	N	N	70
I694365	37 55 55	89 17 23	.15	1.5	.5	<.2	N	.15	N	N	N	30
I694385	37 55 55	89 17 23	.07	2	1	1.5	N	.2	N	N	N	30
I694405	37 55 55	89 17 23	.07	3	2	.2	N	.3	N	N	N	50
I694425	37 55 55	89 17 23	N	1	.7	1.5	N	.3	N	N	N	30
I694445	37 55 55	89 17 23	.1	2	2	1.5	N	.5	N	N	N	50
I694465	37 55 55	89 17 23	.1	2	3	1.5	N	.3	N	N	N	30
I694485	37 55 55	89 17 23	.05	5	2	1.5	N	.3	N	N	N	30
I694505	37 55 55	89 17 23	.05	7	3	1.5	N	.5	N	N	N	70
I694525	37 55 55	89 17 23	<.05	7	3	1	N	.3	N	N	N	50
I694545	37 55 55	89 17 23	<.05	7	3	1	N	.5	N	N	N	100
I694565	37 55 55	89 17 23	N	3	1.5	.5	N	.2	N	N	N	30
I694585	37 55 55	89 17 23	<.05	2	1.5	.2	N	.3	N	N	N	50
I694615	37 55 55	89 17 23	2	2	5	.7	N	.15	N	N	N	30
I694660	37 55 55	89 17 23	.07	5	1.5	1.5	N	.15	N	N	N	30
I694680	37 55 55	89 17 23	1	3	2	.2	N	.2	N	N	N	20
I694700	37 55 55	89 17 23	.07	2	1	.5	N	.2	N	N	N	30
I694720	37 55 55	89 17 23	1	3	3	.3	N	.2	N	N	N	20
I694740	37 55 55	89 17 23	.1	7	2	.7	N	.15	N	N	N	50
I694760	37 55 55	89 17 23	.3	2	1.5	.3	N	.15	N	N	N	30
I694780	37 55 55	89 17 23	.15	1.5	.7	<.2	N	.1	N	N	N	20
I694800	37 55 55	89 17 23	.15	2	1	<.2	N	.15	N	N	N	30
I694820	37 55 55	89 17 23	.2	3	1.5	<.2	N	.15	N	N	N	30
I694840	37 55 55	89 17 23	.7	5	1.5	.2	N	.3	N	N	N	50
I694860	37 55 55	89 17 23	.05	2	1	.3	N	.2	N	N	N	30
I694880	37 55 55	89 17 23	.3	2	1	<.2	N	.2	N	N	N	50
I694900	37 55 55	89 17 23	.1	1.5	1	.2	N	.2	N	N	N	30
I694920	37 55 55	89 17 23	.7	1.5	1.5	<.2	N	.1	N	N	N	10
I694940	37 55 55	89 17 23	.15	1	.5	<.2	N	.1	N	N	N	20
I694960	37 55 55	89 17 23	15	.7	5	<.2	N	.05	N	N	N	15
I694980	37 55 55	89 17 23	.2	1.5	1	.2	N	.15	N	N	N	20
I695000	37 55 55	89 17 23	.2	3	3	.5	N	.3	N	N	N	30
I695020	37 55 55	89 17 23	.05	3	3	.3	N	.15	N	N	N	70
I695040	37 55 55	89 17 23	.7	5	3	.2	N	.15	N	N	N	50
I695060	37 55 55	89 17 23	.2	5	3	.2	N	.2	N	N	N	30
I695080	37 55 55	89 17 23	.15	5	2	.3	N	.3	N	N	N	70
I695110	37 55 55	89 17 23	.1	3	2	.3	N	.2	N	N	N	50
I695160	37 55 55	89 17 23	1.5	5	5	.2	N	.3	N	N	N	70
I695210	37 55 55	89 17 23	5	3	5	.2	N	.2	N	N	N	30
I695230	37 55 55	89 17 23	3	2	3	<.2	N	.15	N	N	N	20
I695250	37 55 55	89 17 23	2	3	5	.3	N	.15	N	N	N	50
I695280	37 55 55	89 17 23	2	1.5	3	.2	N	.15	N	N	N	15
I695300	37 55 55	89 17 23	.3	1	1	N	N	.1	N	N	N	10
I695320	37 55 55	89 17 23	.05	1	.5	N	N	.07	N	N	N	<10
I695350	37 55 55	89 17 23	.05	1	.7	<.2	N	.1	N	N	N	10
I695370	37 55 55	89 17 23	N	.5	.1	N	N	.03	N	N	N	N
I695390	37 55 55	89 17 23	N	.2	.05	N	N	.015	N	N	N	N
I695410	37 55 55	89 17 23	N	.1	.02	N	N	.01	N	N	N	N
I695430	37 55 55	89 17 23	.1	.3	.2	N	N	.02	N	N	N	N
I695450	37 55 55	89 17 23	N	.1	.02	N	N	.01	N	N	N	N
I695470	37 55 55	89 17 23	N	.1	.03	N	N	.01	N	N	N	N
I695490	37 55 55	89 17 23	N	.3	.05	N	N	.015	N	N	N	N

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I694185	300	<1	N	N	15	70	30	50	N	N	20	N	N
I694205	200	<1	N	N	15	100	20	70	N	N	50	N	N
I694225	200	<1	N	N	10	50	10	30	N	N	70	N	N
I694245	500	1	N	N	20	100	15	100	N	N	50	N	N
I694265	300	<1	N	N	10	50	5	50	N	N	70	N	N
I694285	500	1	N	N	15	70	10	70	N	N	100	N	N
I694305	300	<1	N	N	10	50	30	30	N	N	30	N	N
I694325	700	N	N	N	<10	30	20	20	N	N	15	N	N
I694345	150	1.5	N	N	10	70	15	50	N	<50	200	N	N
I694365	50	N	N	N	N	10	5	5	N	N	10	N	N
I694385	1,000	<1	N	N	<10	100	20	100	N	N	<10	N	N
I694405	1,500	<1	N	N	<10	150	15	15	N	N	30	7	N
I694425	500	N	N	N	N	10	<5	10	N	N	15	N	N
I694445	300	<1	N	N	<10	20	5	30	N	N	70	N	<20
I694465	200	<1	N	N	10	30	30	50	N	N	50	N	N
I694485	300	1	N	N	10	50	20	50	N	N	70	<5	N
I694505	300	1.5	N	N	15	50	15	50	N	N	100	N	N
I694525	200	1.5	N	N	10	70	20	70	N	N	150	N	N
I694545	300	1.5	N	N	15	50	20	50	N	N	150	N	N
I694565	100	<1	N	N	<10	30	20	30	N	N	30	5	N
I694585	500	1	N	N	10	50	10	30	N	<50	20	5	<20
I694615	700	<1	N	N	<10	30	5	50	N	N	70	N	N
I694660	70	<1	N	N	10	70	20	30	N	N	100	N	N
I694680	70	N	N	N	<10	20	15	30	N	N	100	N	N
I694700	50	<1	N	N	<10	100	7	20	N	N	15	5	N
I694720	50	<1	N	N	<10	30	5	20	N	N	70	N	N
I694740	70	1	N	N	15	50	30	70	N	N	200	N	N
I694760	50	N	N	N	<10	20	7	30	N	N	100	5	N
I694780	70	N	N	N	N	10	15	10	N	N	10	N	N
I694800	50	N	N	N	N	20	5	10	N	N	50	N	N
I694820	500	N	N	N	10	30	7	20	N	N	700	N	N
I694840	150	N	N	N	N	30	15	50	N	N	30	N	N
I694860	100	N	N	N	15	20	15	30	N	N	500	N	N
I694880	100	N	N	N	<10	20	20	20	N	N	150	N	N
I694900	100	<1	N	N	<10	50	10	30	N	N	15	N	N
I694920	50	N	N	N	N	10	7	7	N	N	15	N	N
I694940	30	N	N	N	N	<10	5	<5	N	N	10	N	N
I694960	30	N	N	N	N	<10	5	10	N	N	50	N	N
I694980	150	N	N	N	<10	20	20	20	N	N	100	N	N
I695000	300	<1	N	N	10	50	30	50	N	N	150	<5	N
I695020	500	N	N	N	<10	50	20	50	N	N	20	<5	N
I695040	300	<1	N	N	10	30	20	30	N	N	50	<5	N
I695060	1,000	<1	N	N	10	70	20	70	N	N	50	<5	N
I695080	5,000	<1	N	N	<10	500	30	50	N	N	50	50	<20
I695110	1,000	N	N	N	N	30	20	50	N	N	20	<5	N
I695160	300	<1	N	N	10	70	30	50	N	N	50	5	N
I695210	5,000	N	N	N	10	50	30	30	N	N	30	5	N
I695230	5,000	N	N	N	10	20	30	20	N	N	50	5	N
I695250	3,000	<1	N	N	10	50	30	50	N	N	70	5	N
I695280	1,000	N	N	N	<10	20	15	20	N	N	15	N	N
I695300	300	N	N	N	N	10	10	5	N	N	10	N	N
I695320	300	N	N	N	N	<10	5	<5	N	N	<10	N	N
I695350	200	N	N	N	N	10	7	10	N	N	10	N	N
I695370	30	N	N	N	N	N	<5	N	N	N	N	N	N
I695390	<20	N	N	N	N	<10	<5	N	N	N	N	N	N
I695410	N	N	N	N	N	N	N	N	N	N	N	N	N
I695430	30	N	N	N	N	N	N	N	N	N	N	N	N
I695450	N	N	N	N	N	N	N	N	N	N	N	N	N
I695470	N	N	N	N	N	N	N	N	N	N	N	N	N
I695490	<20	N	N	N	N	N	<5	N	N	N	N	N	N

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 169, 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 #
I694185	20	30	N	5	N	N	N	50	N	<10	N	70	.08	15
I694205	20	100	N	5	N	N	N	50	N	N	N	50	.08	15
I694225	15	50	N	<5	N	N	N	30	N	N	N	50	.11	15
I694245	30	15	N	7	N	N	N	50	N	<10	N	70	.08	15
I694265	20	150	N	5	N	N	N	50	N	N	N	70	.08	15
I694285	20	20	N	7	N	N	N	70	N	<10	N	100	.07	15
I694305	20	150	N	<5	N	N	N	50	N	N	N	70	.06	15
I694325	15	500	N	5	N	N	N	50	N	N	N	70	.06	15
I694345	20	2,000	N	7	N	N	N	70	N	<10	N	70	.06	15
I694365	7	1,000	N	N	N	N	N	30	N	N	N	20	.03	15
I694385	15	1,500	N	<5	N	N	N	50	20	N	N	30	.05	15
I694405	15	200	N	<5	N	N	N	70	N	N	<200	50	.05	15
I694425	5	10	N	N	N	N	N	30	N	N	N	300	.01	15
I694445	7	30	N	<5	N	N	N	50	N	<10	N	200	.05	22
I694465	7	20	N	<5	N	N	N	70	N	<10	N	100	.05	22
I694485	15	20	N	<5	N	N	N	50	N	<10	N	100	.05	22
I694505	20	15	N	7	N	N	N	70	N	<10	N	70	.06	22
I694525	15	15	N	5	N	N	N	50	N	N	N	50	.06	22
I694545	20	500	N	7	N	N	N	100	N	<10	N	70	.07	22
I694565	10	10,000	N	<5	N	N	N	50	50	N	N	30	.07	25
I694585	15	3,000	N	5	N	N	N	70	100	<10	N	50	.05	25
I694615	10	200	N	<5	N	N	N	50	N	<10	N	30	.06	25
I694660	15	50	N	<5	N	N	N	50	70	N	N	20	.05	25
I694680	10	50	N	<5	N	N	N	50	N	N	N	50	.07	25
I694700	10	15	N	<5	N	N	N	50	30	N	N	20	.06	26
I694720	10	10	N	<5	N	N	N	50	N	N	N	30	.08	26
I694740	20	30	N	5	N	N	N	50	N	N	N	30	.06	26
I694760	10	150	N	<5	N	N	N	30	N	N	N	30	.1	26
I694780	5	20	N	N	N	N	N	30	N	N	N	20	.07	26
I694800	7	20	N	<5	N	N	N	50	N	N	N	20	.17	26
I694820	10	100	N	<5	N	N	N	50	N	N	N	30	.21	26
I694840	10	200	N	<5	N	N	N	50	N	N	N	50	.91	26
I694860	15	10	N	N	N	N	N	50	N	N	N	30	.15	26
I694880	10	10	N	N	N	N	N	50	N	N	N	30	.17	26
I694900	10	15	N	<5	N	<100	N	50	30	N	N	30	.08	26
I694920	7	30	N	N	N	N	N	30	N	N	N	15	.11	26
I694940	5	700	N	N	N	N	N	20	N	N	N	20	.21	26
I694960	<5	100	N	N	N	<100	N	<10	N	N	N	15	.21	26
I694980	7	15	N	N	N	N	N	20	N	N	N	20	.63	26
I695000	15	15	N	5	N	N	N	70	N	N	N	30	.27	26
I695020	10	20	N	<5	N	N	N	50	<20	N	200	20	.16	26
I695040	15	10	N	<5	N	N	N	50	N	N	N	30	.36	26
I695060	20	15	N	<5	N	N	N	70	N	N	N	30	.34	26
I695080	20	15	N	<5	N	<100	N	100	200	N	N	50	.44	26
I695110	10	15	N	<5	N	N	N	50	N	N	N	50	.19	26
I695160	30	15	N	<5	N	500	N	100	N	N	N	50	.38	30
I695210	20	200	N	<5	N	>5,000	N	70	N	N	N	70	1.31	30
I695230	20	15	N	<5	N	>5,000	N	50	N	N	N	50	1.38	30
I695250	15	20	N	<5	N	>5,000	N	50	N	N	N	70	1.34	30
I695280	10	<10	N	N	N	3,000	N	30	N	N	N	150	2.14	30
I695300	7	N	N	N	N	150	N	20	N	N	N	100	.59	30
I695320	5	N	N	N	N	N	N	10	N	N	N	150	.15	30
I695350	7	30	N	N	N	<100	N	20	N	N	N	30	.19	30
I695370	<5	N	N	N	N	<100	N	<10	50	N	N	20	.03	30
I695390	N	N	N	N	N	N	N	N	100	N	N	20	.02	32
I695410	N	N	N	N	N	N	N	N	N	N	N	20	.01	32
I695430	N	N	N	N	N	700	N	<10	N	N	N	50	.14	32
I695450	N	N	N	N	N	N	N	N	N	N	N	<10	.01	32
I695470	N	N	N	N	N	N	N	N	N	N	N	20	.02	32
I695490	N	N	N	N	N	200	N	N	N	N	N	30	.01	32

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I695510	37 55 55	89 17 23	.05	.2	.1	N	N	.02	N	N	N	N
I695530	37 55 55	89 17 23	N	1	.3	N	N	.07	N	N	N	10
I695560	37 55 55	89 17 23	N	.2	.1	N	N	.015	N	N	N	N
I695580	37 55 55	89 17 23	N	.3	.1	N	N	.02	N	N	N	N
I695610	37 55 55	89 17 23	N	.15	.05	N	N	.02	N	N	N	N
I695640	37 55 55	89 17 23	N	.15	.03	N	N	.015	N	N	N	N
I695660	37 55 55	89 17 23	.07	.5	.1	N	N	.015	N	N	N	N
I695680	37 55 55	89 17 23	N	.3	.07	N	N	.03	N	N	N	N
I695710	37 55 55	89 17 23	N	.05	.03	N	N	.01	N	N	N	N
I695730	37 55 55	89 17 23	N	.15	.05	N	N	.015	N	N	N	N
I695750	37 55 55	89 17 23	N	.05	.03	N	N	.007	N	N	N	N
I695770	37 55 55	89 17 23	N	.15	.1	N	N	.01	N	N	N	N
I695790	37 55 55	89 17 23	N	.1	.03	N	N	.01	N	N	N	N
I695850	37 55 55	89 17 23	<.05	.2	.05	N	N	.015	N	N	N	N
I695880	37 55 55	89 17 23	N	.3	.03	N	N	.007	N	N	N	N
I695900	37 55 55	89 17 23	<.05	.5	.1	N	N	.05	N	N	N	N
I695920	37 55 55	89 17 23	N	.5	.15	N	N	.03	N	N	N	<10
I695940	37 55 55	89 17 23	N	.2	.1	N	N	.03	N	N	N	N
I695960	37 55 55	89 17 23	<.05	.2	.07	N	N	.01	N	N	N	N
I695980	37 55 55	89 17 23	.3	1	1.5	N	N	.1	N	N	N	15
I696000	37 55 55	89 17 23	.3	5	3	N	N	.1	<.5	N	N	50
I696020	37 55 55	89 17 23	<.05	10	.5	N	N	.03	1.5	N	N	10
I696040	37 55 55	89 17 23	.3	2	.5	N	N	.05	1	N	N	20
I696060	37 55 55	89 17 23	.15	1.5	.7	N	N	.07	N	N	N	10
I696080	37 55 55	89 17 23	.1	1.5	1	N	N	.15	N	N	N	15
I696100	37 55 55	89 17 23	N	.5	.3	N	N	.07	N	N	N	10
I696120	37 55 55	89 17 23	.2	1	1.5	<.2	N	.15	N	N	N	30
I696140	37 55 55	89 17 23	.3	2	2	<.2	N	.2	N	N	N	30
I696160	37 55 55	89 17 23	.07	.5	1	<.2	N	.1	N	N	N	20
I696180	37 55 55	89 17 23	.05	.5	.5	<.2	N	.1	N	N	N	15
I696200	37 55 55	89 17 23	N	.7	.3	<.2	N	.1	N	N	N	10
I696220	37 55 55	89 17 23	N	1.5	.7	<.2	N	.15	N	N	N	15
I696240	37 55 55	89 17 23	.2	1	1.5	.2	N	.15	N	N	N	20
I696260	37 55 55	89 17 23	.15	1.5	.7	<.2	N	.1	N	N	N	10
I696280	37 55 55	89 17 23	.5	1	1.5	<.2	N	.1	N	N	N	20
I696300	37 55 55	89 17 23	N	1	.5	<.2	N	.1	N	N	N	20
I696330	37 55 55	89 17 23	<.05	.5	.2	N	N	.07	N	N	N	15
I696350	37 55 55	89 17 23	.15	1.5	.7	N	N	.07	N	N	N	20
I696370	37 55 55	89 17 23	.15	1	1	.2	N	.15	N	N	N	20
I696390	37 55 55	89 17 23	<.05	1.5	.5	<.2	N	.1	N	N	N	15
I696410	37 55 55	89 17 23	.05	1	1	<.2	N	.07	N	N	N	50
I696430	37 55 55	89 17 23	.15	1.5	1	<.2	N	.07	N	N	N	30
I696450	37 55 55	89 17 23	.1	1	.7	N	N	.07	N	N	N	30
I696470	37 55 55	89 17 23	<.05	.7	.15	N	N	.03	N	N	N	10
I696490	37 55 55	89 17 23	<.05	1	.3	N	N	.05	N	N	N	30
I696510	37 55 55	89 17 23	.1	1.5	.7	<.2	N	.15	N	N	N	30
I696530	37 55 55	89 17 23	.15	3	1	<.2	N	.2	N	N	N	30
I696550	37 55 55	89 17 23	.07	2	.5	<.2	N	.15	N	N	N	30
I696570	37 55 55	89 17 23	.07	1	.3	N	N	.05	N	N	N	<10
I696590	37 55 55	89 17 23	.1	2	1	.2	N	.15	N	N	N	30
I696610	37 55 55	89 17 23	N	1	.2	N	N	.03	N	N	N	<10
I696630	37 55 55	89 17 23	.15	1.5	.5	N	N	.1	N	N	N	20
I696650	37 55 55	89 17 23	N	1	.15	<.2	N	.07	N	N	N	10
I696670	37 55 55	89 17 23	<.05	1.5	.2	<.2	N	.07	N	N	N	<10
I696690	37 55 55	89 17 23	N	1.5	.3	<.2	N	.1	N	N	N	15
I696710	37 55 55	89 17 23	N	1	.15	N	N	.07	N	N	N	<10
I696730	37 55 55	89 17 23	N	2	.3	<.2	N	.2	N	N	N	30
I696750	37 55 55	89 17 23	<.05	1.5	.5	<.2	N	.1	N	N	N	20
I696780	37 55 55	89 17 23	<.05	1	.2	N	N	.07	N	N	N	10
I696800	37 55 55	89 17 23	N	1.5	.3	N	N	.1	N	N	N	15

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I695510	50	N	N	N	N	N	<5	N	N	N	N	N	N
I695530	300	N	N	N	N	30	7	<5	N	N	<10	5	N
I695560	<20	N	N	N	N	N	N	N	N	N	N	N	N
I695580	20	N	N	N	N	N	N	N	N	N	N	N	N
I695610	<20	N	N	N	N	N	N	N	N	N	N	N	N
I695640	N	N	N	N	N	N	N	N	N	N	N	N	N
I695660	<20	N	N	N	<10	N	<5	N	N	N	<10	N	N
I695680	<20	N	N	N	N	N	N	N	N	N	N	N	N
I695710	N	N	N	N	N	N	N	N	N	N	N	N	N
I695730	N	N	N	N	N	N	N	N	N	N	N	N	N
I695750	N	N	N	N	N	N	N	N	N	N	N	N	N
I695770	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I695790	20	N	N	N	N	N	N	N	N	N	150	N	N
I695850	<20	N	N	N	N	N	N	N	N	N	70	N	N
I695880	N	N	N	N	N	N	N	N	N	N	<10	N	N
I695900	20	N	N	N	<10	N	7	N	N	N	N	N	N
I695920	<20	N	N	N	N	N	N	N	N	N	15	N	N
I695940	20	N	N	N	N	N	N	N	N	N	N	N	N
I695960	N	N	N	N	N	N	5	N	N	N	N	N	N
I695980	>5,000	N	N	N	N	20	15	5	N	N	10	N	N
I696000	5,000	N	N	N	10	20	150	15	N	N	15	<5	N
I696020	2,000	N	N	N	N	<10	100	5	N	N	<10	N	N
I696040	300	N	N	N	20	N	50	N	N	N	<10	N	N
I696060	200	N	N	N	N	N	30	<5	N	N	N	N	N
I696080	500	N	N	N	N	15	20	10	N	N	10	N	N
I696100	100	N	N	N	N	<10	<5	<5	N	N	N	N	N
I696120	200	N	N	N	N	15	10	15	N	N	<10	N	N
I696140	200	N	N	N	<10	30	70	30	N	N	<10	N	N
I696160	150	N	N	N	N	10	20	7	N	N	<10	N	N
I696180	300	N	N	N	N	<10	5	7	N	N	<10	N	N
I696200	300	N	N	N	N	<10	5	7	N	N	N	N	N
I696220	200	N	N	N	N	70	50	15	N	N	<10	N	N
I696240	200	N	N	N	N	20	30	20	N	N	<10	N	N
I696260	500	N	N	N	N	<10	20	15	N	N	N	N	N
I696280	200	N	N	N	N	50	15	5	N	N	<10	7	N
I696300	300	N	N	N	50	10	50	7	N	N	10	N	<20
I696330	150	N	N	N	N	<10	20	<5	N	N	N	N	N
I696350	150	N	N	N	N	<10	30	<5	N	N	N	N	N
I696370	500	N	N	N	N	30	5	20	N	N	N	N	N
I696390	300	N	N	N	N	15	7	10	N	N	N	N	N
I696410	100	N	N	N	N	10	70	5	N	N	N	N	N
I696430	200	N	N	N	N	<10	30	7	N	N	<10	<5	N
I696450	200	N	N	N	N	<10	50	5	N	N	10	N	N
I696470	70	N	N	N	30	N	30	N	N	N	N	N	N
I696490	150	N	N	N	N	N	30	<5	N	N	N	N	N
I696510	300	N	N	N	<10	10	20	10	N	N	<10	<5	N
I696530	300	N	N	N	<10	20	50	20	N	N	10	5	N
I696550	200	N	N	N	N	10	30	15	N	N	15	7	N
I696570	100	N	N	N	N	N	15	<5	N	N	<10	N	N
I696590	700	N	N	N	<10	30	30	30	N	N	50	5	N
I696610	70	N	N	N	N	30	10	N	N	N	N	7	N
I696630	200	N	N	N	N	<10	15	5	N	N	<10	10	N
I696650	300	N	N	N	N	N	15	5	N	N	N	N	N
I696670	300	N	N	N	N	N	10	7	N	N	<10	5	N
I696690	300	N	N	N	N	<10	7	10	N	N	<10	7	N
I696710	150	N	N	N	N	N	5	7	N	N	N	5	N
I696730	200	N	N	N	N	30	20	30	N	N	<10	<5	N
I696750	300	N	N	N	N	10	7	15	N	N	<10	<5	N
I696780	200	N	N	N	N	<10	7	5	N	N	N	N	N
I696800	200	N	N	N	N	<10	10	7	N	N	<10	N	N

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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 #
I695510	N	N	N	N	N	1,000	N	N	20	N	N	30	.01	44
I695530	5	N	N	N	N	<100	N	15	150	N	N	15	.04	44
I695560	N	15	N	N	N	700	N	N	30	N	N	20	.01	44
I695580	N	N	N	N	N	<100	N	N	100	N	N	<10	.02	44
I695610	N	10	N	N	N	N	N	N	30	N	N	20	.01	44
I695640	N	N	N	N	N	100	N	N	N	N	N	10	.01	44
I695660	<5	N	N	N	N	<100	N	N	70	N	N	20	.09	44
I695680	<5	N	N	N	N	N	N	N	N	N	N	30	.01	44
I695710	N	N	N	N	N	N	N	N	N	N	N	10	<.01	44
I695730	N	N	N	N	N	N	N	N	N	N	N	50	.01	44
I695750	N	N	N	N	N	N	N	N	N	N	N	50	.01	44
I695770	N	N	N	N	N	150	N	N	N	N	N	<10	.01	44
I695790	N	N	N	N	N	100	N	N	N	N	N	30	.01	44
I695850	N	15	N	N	N	N	N	N	N	N	N	50	.01	44
I695880	N	N	N	N	N	N	N	N	N	N	N	20	.01	44
I695900	<5	100	N	N	N	N	N	<10	200	N	N	30	.01	44
I695920	<5	N	N	N	N	N	N	N	100	N	N	20	.02	44
I695940	N	30	N	N	N	N	N	N	20	N	N	50	.01	44
I695960	<5	N	N	N	N	N	N	N	N	N	N	70	.01	44
I695980	7	N	N	N	N	<100	N	20	N	N	N	100	.06	44
I696000	10	200	N	N	N	100	N	20	N	N	N	50	.12	44
I696020	7	1,500	N	N	N	N	N	<10	N	N	N	20	.07	44
I696040	5	300	N	N	N	N	N	10	300	N	N	30	.03	44
I696060	5	70	N	N	N	N	N	10	N	N	N	50	.05	44
I696080	10	30	N	N	N	<100	N	20	N	N	N	50	.06	44
I696100	<5	15	N	N	N	N	N	10	N	N	N	30	.04	44
I696120	5	15	N	N	N	N	N	15	<20	N	N	50	.05	44
I696140	10	150	N	N	N	N	N	30	N	N	N	30	.09	44
I696160	5	150	N	N	N	N	N	15	N	N	N	30	.04	44
I696180	5	200	N	N	N	N	N	15	N	N	N	70	.03	44
I696200	5	70	N	N	N	N	N	10	N	N	N	70	.03	44
I696220	7	15	N	N	N	N	N	15	N	N	N	70	.04	44
I696240	7	10	N	N	N	N	N	20	N	N	N	30	.05	44
I696260	7	15	N	N	N	N	N	15	N	N	N	100	.04	44
I696280	7	10	N	N	N	N	N	15	70	N	N	50	.05	44
I696300	10	<10	N	N	N	N	N	20	1,000	N	N	30	.03	44
I696330	<5	15	N	N	N	N	N	10	30	N	N	30	.02	44
I696350	5	70	N	N	N	N	N	10	N	N	N	30	.03	44
I696370	5	15	N	N	N	N	N	20	N	N	N	70	.05	44
I696390	5	500	N	N	N	N	N	15	N	N	N	50	.04	44
I696410	5	50	N	N	N	N	N	30	N	N	N	20	.03	44
I696430	5	30	N	N	N	N	N	20	N	N	N	20	.04	44
I696450	7	20	N	N	N	N	N	20	N	N	<200	30	.04	44
I696470	N	N	N	N	N	N	N	N	20	N	N	30	.01	44
I696490	5	<10	N	N	N	N	N	15	N	N	N	20	.02	44
I696510	7	10	N	N	N	N	N	20	20	N	N	100	.03	44
I696530	10	50	N	N	N	N	N	50	N	N	200	50	.05	44
I696550	7	30	N	N	N	N	N	20	N	N	N	70	.03	44
I696570	<5	N	N	N	N	N	N	<10	N	N	N	15	.03	44
I696590	10	300	N	N	N	N	N	30	30	N	N	30	.04	46
I696610	<5	150	N	N	N	N	N	10	50	N	<200	20	.02	46
I696630	5	70	N	N	N	N	N	15	N	N	N	30	.02	46
I696650	<5	<10	N	N	N	N	N	10	N	N	N	300	.02	46
I696670	<5	<10	N	N	N	N	N	10	N	N	N	50	.02	46
I696690	5	30	N	N	N	N	N	10	N	N	N	50	.02	46
I696710	<5	N	N	N	N	N	N	<10	N	N	N	30	.03	46
I696730	7	70	N	N	N	N	N	30	N	N	N	30	.04	46
I696750	5	<10	N	N	N	N	N	<10	N	N	N	70	.04	46
I696780	<5	N	N	N	N	N	N	10	N	N	N	30	.03	46
I696800	5	N	N	N	N	N	N	10	N	N	N	70	.03	46

TABLE 41--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I69, 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
I696820	37 55 55	89 17 23	.3	2	.7	N	N	.07	N	N	N	20
I696840	37 55 55	89 17 23	<.05	1	.2	N	N	.07	N	N	N	15
I696860	37 55 55	89 17 23	<.05	1	.1	N	N	.05	N	N	N	15
I696880	37 55 55	89 17 23	.5	1.5	1	N	N	.1	N	N	N	15
I696900	37 55 55	89 17 23	.15	1	.3	N	N	.07	N	N	N	20
I696920	37 55 55	89 17 23	.05	1	.2	N	N	.1	N	N	N	30
I696940	37 55 55	89 17 23	10	1	7	.2	N	.07	N	N	N	15
I696960	37 55 55	89 17 23	.2	1.5	.5	<.2	N	.1	N	N	N	20
I696980	37 55 55	89 17 23	<.05	.7	.15	N	N	.05	N	N	N	10
I697000	37 55 55	89 17 23	<.05	.5	.1	N	N	.05	N	N	N	15
I697020	37 55 55	89 17 23	<.05	1	.15	N	N	.05	N	N	N	15
I697040	37 55 55	89 17 23	N	.7	.15	N	N	.07	N	N	N	15
I697060	37 55 55	89 17 23	N	.3	<.02	N	N	.01	N	N	N	<10
I697090	37 55 55	89 17 23	.05	1	.15	N	N	.05	N	N	N	15

Sample	Ba-ppm s	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	Ga-ppm s	Ge-ppm s	La-ppm s	Mn-ppm s	Mo-ppm s	Nb-ppm s
I696820	200	N	N	N	N	<10	10	5	N	N	<10	5	N
I696840	100	N	N	N	N	N	5	5	N	N	<10	N	N
I696860	70	N	N	N	N	N	<5	<5	N	N	<10	N	N
I696880	100	N	N	N	N	30	5	5	N	N	<10	7	N
I696900	50	N	N	N	N	N	<5	<5	N	N	N	N	N
I696920	150	N	N	N	10	<10	5	<5	N	N	<10	<5	N
I696940	50	N	N	N	100	10	<5	10	N	N	15	N	N
I696960	70	N	N	N	N	10	15	10	N	N	<10	N	N
I696980	50	N	N	N	N	N	5	N	N	N	N	N	N
I697000	30	N	N	N	<10	N	15	N	N	N	N	N	N
I697020	50	N	N	N	N	N	7	N	N	N	N	N	N
I697040	50	N	N	N	N	<10	20	N	N	N	N	<5	N
I697060	<20	N	N	N	N	N	N	N	N	N	N	N	N
I697090	150	N	N	N	N	N	5	N	N	N	N	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 #
I696820	7	10	N	N	N	N	N	15	N	N	N	30	.02	46
I696840	5	1,000	N	N	N	N	N	10	N	N	N	30	.02	46
I696860	<5	N	N	N	N	N	N	<10	N	N	N	20	.01	46
I696880	5	N	N	N	N	N	N	15	50	N	N	30	.02	46
I696900	5	<10	N	N	N	N	N	15	<20	N	N	30	.02	46
I696920	5	30	N	N	N	N	N	10	500	N	N	30	.02	46
I696940	5	20	N	N	N	N	N	15	200	N	N	15	.03	46
I696960	7	70	N	N	N	N	N	30	<20	N	N	20	.03	46
I696980	5	15	N	N	N	N	N	15	N	N	N	10	.01	46
I697000	5	10	N	N	N	N	N	10	150	N	N	<10	.01	46
I697020	5	30	N	N	N	N	N	<10	<20	N	N	30	.01	46
I697040	7	30	N	N	N	N	N	20	N	N	N	10	.01	46
I697060	N	N	N	N	N	N	N	N	N	N	N	N	.01	46
I697090	<5	10	N	N	N	N	N	10	50	N	N	30	.01	63

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 170, 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
I702970	38 3 33	89 24 29	.15	3	1	.3	N	.2	N	N	N	70
I702990	38 3 33	89 24 29	.2	1	.5	<.2	N	.05	N	N	N	20
I703012	38 3 33	89 24 29	.15	.7	.2	N	N	.03	N	N	N	30
I703040	38 3 33	89 24 29	.15	1	1	<.2	N	.1	N	N	N	50
I703060	38 3 33	89 24 29	.07	2	5	<.2	N	.2	N	N	N	70
I703080	38 3 33	89 24 29	.05	1.5	2	N	N	.15	N	N	N	50
I703100	38 3 33	89 24 29	<.05	1.5	1.5	<.2	N	.1	N	N	N	30
I703120	38 3 33	89 24 29	.05	1	2	N	N	.1	N	N	N	30
I703140	38 3 33	89 24 29	.15	1.5	1	N	N	.1	<.5	N	N	30
I703160	38 3 33	89 24 29	.05	2	.5	.3	N	.15	N	N	N	30
I703180	38 3 33	89 24 29	.15	.5	.2	N	N	.03	N	N	N	30
I703200	38 3 33	89 24 29	.15	.5	.15	N	N	.03	N	N	N	30
I703220	38 3 33	89 24 29	.7	.2	.2	N	N	.02	N	N	N	50
I703240	38 3 33	89 24 29	1	.5	.7	<.2	N	.05	N	N	N	50
I703260	38 3 33	89 24 29	.5	1	1	.3	N	.07	N	N	N	50
I703280	38 3 33	89 24 29	.15	.5	.3	<.2	N	.05	N	N	N	20
I703300	38 3 33	89 24 29	.15	.5	.7	<.2	N	.07	N	N	N	20
I703320	38 3 33	89 24 29	.1	1	1	.3	N	.1	N	N	N	20
I703340	38 3 33	89 24 29	.1	1	1	.5	N	.1	N	N	N	50
I703360	38 3 33	89 24 29	.07	.7	.7	.2	N	.07	N	N	N	30
I703380	38 3 33	89 24 29	.2	1	1.5	.5	N	.1	N	N	N	50
I703400	38 3 33	89 24 29	.1	.7	1	<.2	N	.07	N	N	N	30
I703420	38 3 33	89 24 29	.1	.7	1	<.2	N	.07	N	N	N	20
I703440	38 3 33	89 24 29	.07	1	1	.3	N	.1	N	N	N	30
I703460	38 3 33	89 24 29	.05	1.5	1	.5	N	.1	N	N	N	20
I703480	38 3 33	89 24 29	.07	2	2	.5	N	.15	N	N	N	50
I703500	38 3 33	89 24 29	<.05	2	1.5	1	N	.2	N	N	N	50
I703520	38 3 33	89 24 29	<.05	2	2	1	N	.2	N	N	N	30
I703540	38 3 33	89 24 29	<.05	3	3	1.5	N	.3	N	N	N	50
I703560	38 3 33	89 24 29	<.05	5	3	1.5	N	.3	N	N	N	50
I703580	38 3 33	89 24 29	.05	5	3	1.5	N	.3	N	N	N	70
I703610	38 3 33	89 24 29	<.05	2	3	1	N	.2	N	N	N	50
I703630	38 3 33	89 24 29	<.05	3	3	1.5	N	.3	N	N	N	70
I703650	38 3 33	89 24 29	<.05	1.5	2	1	N	.15	N	N	N	30
I703670	38 3 33	89 24 29	N	7	3	1.5	N	.3	N	N	N	50
I703690	38 3 33	89 24 29	.05	2	.3	<.2	N	.1	N	N	N	30
I703720	38 3 33	89 24 29	.07	.5	.15	N	N	.03	N	N	N	10
I703920	38 3 33	89 24 29	<.05	5	1.5	1	N	.2	N	N	N	30
I703940	38 3 33	89 24 29	.07	1.5	.7	.3	N	.15	N	N	N	50
I703960	38 3 33	89 24 29	.05	1	.2	<.2	N	.07	N	N	N	30
I703980	38 3 33	89 24 29	.07	3	1	.3	N	.2	N	N	N	50
I704000	38 3 33	89 24 29	.07	5	5	1.5	N	.3	N	N	N	70
I704020	38 3 33	89 24 29	<.05	5	3	.5	N	.3	N	N	N	70
I704040	38 3 33	89 24 29	.15	2	1.5	.3	N	.1	N	N	N	30
I704060	38 3 33	89 24 29	.5	5	3	.5	N	.3	N	N	N	100
I704080	38 3 33	89 24 29	.1	7	3	.7	N	.3	N	N	N	70
I704100	38 3 33	89 24 29	.2	5	3	1	N	.2	N	N	N	100
I704120	38 3 33	89 24 29	.1	1.5	1	.2	N	.15	N	N	N	70
I704140	38 3 33	89 24 29	.1	5	2	1	N	.3	N	N	N	70
I704160	38 3 33	89 24 29	.7	5	2	.7	N	.3	N	N	N	100
I704180	38 3 33	89 24 29	.07	3	1.5	1.5	N	.3	N	N	N	50
I704200	38 3 33	89 24 29	.07	5	2	1	N	.5	N	N	N	70
I704220	38 3 33	89 24 29	.3	1.5	.5	<.2	N	.15	N	N	N	30
I704240	38 3 33	89 24 29	.1	1	.3	N	N	.07	N	N	N	30
I704260	38 3 33	89 24 29	.3	1.5	1	<.2	N	.15	N	N	N	50
I704280	38 3 33	89 24 29	.05	1.5	.7	.2	N	.1	N	N	N	20
I704300	38 3 33	89 24 29	.2	7	3	1	N	.5	N	N	N	70
I704320	38 3 33	89 24 29	.05	3	1.5	.5	N	.2	N	N	N	50
I704340	38 3 33	89 24 29	<.05	5	2	.7	N	.2	N	N	N	70
I704360	38 3 33	89 24 29	<.05	3	5	.5	N	.2	N	N	N	50

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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
I702970	200	1	N	N	15	15	30	7	N	N	30	20	N
I702990	30	N	N	N	<10	N	15	N	N	N	10	5	N
I703012	70	N	N	N	N	N	<5	N	N	N	N	N	N
I703040	50	N	N	N	N	<10	<5	<5	N	N	<10	N	N
I703060	150	<1	N	N	<10	30	30	15	N	N	30	N	N
I703080	70	N	N	N	N	10	50	5	N	N	15	N	N
I703100	50	N	N	N	N	10	<5	7	N	N	<10	N	N
I703120	30	N	N	N	N	<10	500	5	N	N	<10	N	N
I703140	50	N	N	N	N	<10	5,000	<5	N	N	10	<5	N
I703160	100	N	N	N	<10	10	200	7	N	N	15	N	N
I703180	50	N	N	N	N	N	1,500	N	N	N	<10	N	N
I703200	30	N	N	N	N	N	<5	N	N	N	N	N	N
I703220	<20	N	N	N	N	N	70	N	N	N	<10	N	N
I703240	50	N	N	N	N	N	N	N	N	N	<10	N	N
I703260	100	N	N	N	N	<10	<5	5	N	N	10	N	N
I703280	20	N	N	N	N	N	7	N	N	N	<10	N	N
I703300	30	N	N	N	N	N	10	N	N	N	<10	N	N
I703320	70	N	N	N	N	<10	N	<5	N	N	<10	N	N
I703340	100	N	N	N	N	10	N	<5	N	N	<10	N	N
I703360	50	N	N	N	N	<10	7	N	N	N	<10	N	N
I703380	150	N	N	N	N	<10	<5	5	N	N	10	N	N
I703400	50	N	N	N	N	N	<5	<5	N	N	<10	N	N
I703420	50	N	N	N	N	N	<5	<5	N	N	N	N	N
I703440	70	N	N	N	N	<10	<5	5	N	N	10	N	N
I703460	70	N	N	N	N	15	10	5	N	N	10	N	N
I703480	100	N	N	N	N	20	7	10	N	N	15	N	N
I703500	150	<1	N	N	<10	30	15	20	N	N	20	N	N
I703520	200	N	N	N	<10	30	5	30	N	N	20	N	N
I703540	300	<1	N	N	10	70	20	50	N	N	50	N	N
I703560	300	1	N	N	15	70	7	70	N	N	100	N	N
I703580	300	1	N	N	20	100	5	70	N	N	70	N	N
I703610	300	<1	N	N	10	70	15	30	N	N	30	N	N
I703630	300	1	N	N	15	50	20	50	N	N	50	N	N
I703650	300	N	N	N	<10	20	5	15	N	N	15	N	N
I703670	500	1	N	N	15	70	15	70	N	N	70	N	<20
I703690	50	N	N	N	N	N	30	N	N	N	<10	N	N
I703720	<20	N	N	N	N	N	N	N	N	N	N	N	N
I703920	300	<1	N	N	<10	20	20	50	N	N	70	<5	N
I703940	100	N	N	N	N	<10	10	7	N	N	50	N	N
I703960	50	N	N	N	N	N	7	N	N	N	15	N	N
I703980	150	N	N	N	N	<10	10	500	N	N	70	N	N
I704000	1,500	1.5	N	N	15	50	20	100	N	<50	150	N	<20
I704020	200	1	N	N	10	70	20	100	N	N	50	N	N
I704040	70	N	N	N	N	<10	7	50	N	N	30	N	N
I704060	200	1.5	N	N	<10	15	20	30	N	N	100	N	<20
I704080	300	1	N	N	10	20	30	70	N	N	100	N	<20
I704100	200	<1	N	N	<10	20	70	50	N	N	100	N	<20
I704120	100	N	N	N	N	<10	5	7	N	N	50	N	N
I704140	200	<1	N	N	10	30	30	70	N	N	70	N	N
I704160	500	1	N	N	<10	20	20	50	N	N	100	N	<20
I704180	200	<1	N	N	<10	30	20	70	N	N	50	N	N
I704200	300	<1	N	N	<10	50	30	70	N	N	70	N	N
I704220	70	N	N	N	N	<10	5	<5	N	N	30	N	N
I704240	50	N	N	N	N	N	<5	N	N	N	10	N	N
I704260	150	<1	N	N	N	<10	15	5	N	N	50	N	N
I704280	70	N	N	N	N	<10	7	15	N	N	30	N	N
I704300	300	<1	N	N	10	70	30	70	N	N	100	N	<20
I704320	200	N	N	N	10	20	10	20	N	N	50	N	N
I704340	200	<1	N	N	10	30	50	50	N	N	70	N	N
I704360	2,000	N	N	N	10	70	30	70	N	N	50	N	N

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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 #
I702970	30	<10	N	<5	N	N	N	150	N	<10	N	50	.03	10
I702990	10	N	N	N	N	N	N	30	N	N	N	10	.02	10
I703012	<5	N	N	N	N	N	N	15	N	N	N	15	.01	10
I703040	5	30	N	N	N	N	N	20	N	N	N	30	.07	10
I703060	10	<10	N	<5	N	N	N	70	N	N	N	50	.11	10
I703080	7	N	N	N	N	N	N	50	N	N	N	30	.11	10
I703100	5	N	N	N	N	N	N	30	N	N	N	30	.1	10
I703120	5	N	N	N	N	N	N	30	N	N	N	20	.06	10
I703140	7	70	N	N	N	N	N	30	N	N	1,000	20	.06	10
I703160	15	N	N	N	N	N	N	50	N	N	N	30	.02	10
I703180	N	10	N	N	N	N	N	10	30	N	500	20	.02	10
I703200	N	N	N	N	N	N	N	<10	N	N	N	15	.02	10
I703220	N	N	N	N	N	N	N	N	<20	N	N	30	.03	10
I703240	N	N	N	N	N	N	N	15	N	N	N	20	.03	10
I703260	<5	N	N	N	N	N	N	15	N	N	N	30	.05	10
I703280	N	N	N	N	N	N	N	10	N	N	N	15	.04	10
I703300	N	N	N	N	N	N	N	15	N	N	N	20	.04	10
I703320	<5	N	N	N	N	N	N	20	N	N	N	50	.07	10
I703340	<5	N	N	N	N	N	N	20	N	N	N	50	.06	10
I703360	N	<10	N	N	N	N	N	20	N	N	N	30	.05	10
I703380	5	N	N	N	N	N	N	30	N	N	N	50	.05	10
I703400	<5	N	N	N	N	N	N	15	N	N	N	15	.04	10
I703420	<5	N	N	N	N	N	N	15	N	N	N	15	.07	10
I703440	5	<10	N	N	N	N	N	20	N	N	N	20	.05	10
I703460	5	N	N	N	N	N	N	20	N	N	N	30	.05	10
I703480	7	<10	N	<5	N	N	N	30	N	N	N	30	.08	10
I703500	7	<10	N	<5	N	N	N	30	N	N	N	30	.08	10
I703520	10	<10	N	<5	N	N	N	30	N	N	N	50	.1	10
I703540	20	<10	N	5	N	N	N	50	N	<10	N	150	.12	15
I703560	30	10	N	<5	N	N	N	50	N	<10	N	100	.1	15
I703580	50	10	N	5	N	N	N	50	N	<10	N	100	.08	15
I703610	15	10	N	<5	N	N	N	50	N	N	N	50	.12	15
I703630	20	15	N	<5	N	N	N	70	N	N	N	100	.1	15
I703650	7	N	N	N	N	N	N	30	N	N	N	70	.07	15
I703670	30	<10	N	5	N	N	N	70	N	<10	N	70	.05	15
I703690	10	200	N	N	N	N	N	15	N	N	N	20	.06	15
I703720	N	<10	N	N	N	N	N	<10	N	N	N	N	.01	15
I703920	15	10	N	<5	N	N	N	50	N	N	N	50	.04	25
I703940	7	N	N	N	N	N	N	30	N	N	N	30	.02	25
I703960	N	N	N	N	N	N	N	15	N	N	N	20	.02	25
I703980	7	10	N	<5	N	N	N	30	N	N	N	30	.03	25
I704000	15	15	N	7	N	N	N	50	N	<10	200	70	.05	25
I704020	15	150	N	5	N	N	N	70	N	N	N	50	.13	26
I704040	5	N	N	N	N	N	N	20	N	N	N	30	.08	26
I704060	10	<10	N	<5	N	N	N	30	N	N	N	70	.18	26
I704080	10	<10	N	5	N	100	N	50	N	N	N	70	.16	26
I704100	10	500	N	<5	N	N	N	50	N	N	N	50	.15	26
I704120	5	N	N	N	N	N	N	20	N	N	N	30	.11	26
I704140	10	15	N	<5	N	100	N	50	N	N	N	50	.12	26
I704160	10	100	N	5	N	100	N	70	N	<10	N	150	.5	26
I704180	7	200	N	<5	N	N	N	50	N	N	N	50	.2	26
I704200	7	70	N	5	N	N	N	50	N	N	N	70	.15	26
I704220	5	1,000	N	N	N	N	N	30	N	N	N	20	.11	26
I704240	<5	100	N	N	N	N	N	15	N	N	N	20	.06	26
I704260	5	N	N	N	N	<100	N	30	N	N	N	30	.16	26
I704280	5	10	N	N	N	N	N	20	N	N	<200	20	.11	26
I704300	15	150	N	7	N	N	N	50	N	<10	N	70	.19	26
I704320	7	20	N	<5	N	N	N	30	20	N	N	30	.11	26
I704340	10	700	N	<5	N	N	N	30	N	N	N	30	.11	26
I704360	15	10	N	<5	N	N	N	50	N	N	N	50	.21	26

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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
I704380	38 3 33	89 24 29	<.05	5	3	.7	N	.3	N	N	N	70
I704400	38 3 33	89 24 29	.15	7	3	1	N	.5	N	N	N	70
I704420	38 3 33	89 24 29	.5	7	3	1.5	N	.3	N	N	N	50
I704440	38 3 33	89 24 29	.07	5	3	1	N	.3	N	N	N	50
I704460	38 3 33	89 24 29	.05	7	2	1	N	.3	N	N	N	30
I704480	38 3 33	89 24 29	3	3	3	1	N	.5	N	N	N	100
I704500	38 3 33	89 24 29	3	2	2	1.5	N	.2	N	N	N	50
I704520	38 3 33	89 24 29	3	5	5	1	N	.3	N	N	N	100
I704540	38 3 33	89 24 29	1	2	5	.7	N	.3	N	N	N	30
I704560	38 3 33	89 24 29	5	3	3	1	N	.5	N	N	N	100
I704580	38 3 33	89 24 29	.15	1.5	1.5	.5	N	.15	N	N	N	30
I704600	38 3 33	89 24 29	<.05	2	1	.5	N	.2	N	N	N	50
I704630	38 3 33	89 24 29	.05	7	2	1.5	N	.5	N	N	N	100
I704650	38 3 33	89 24 29	N	1	.2	N	N	.07	N	N	N	15
I704670	38 3 33	89 24 29	N	1	.3	<.2	N	.07	.7	N	N	10
I704900	38 3 33	89 24 29	N	3	1.5	.5	N	.2	N	N	N	50
I704930	38 3 33	89 24 29	N	2	1	.5	N	.15	N	N	N	20
I704950	38 3 33	89 24 29	N	2	1.5	.7	N	.15	N	N	N	30
I704970	38 3 33	89 24 29	N	.7	.2	N	N	.1	N	N	N	15
I704990	38 3 33	89 24 29	N	.5	.15	N	N	.05	N	N	N	N
I705010	38 3 33	89 24 29	N	.5	.2	N	N	.07	N	N	N	20
I705030	38 3 33	89 24 29	N	1	.3	<.2	N	.15	N	N	N	20
I705050	38 3 33	89 24 29	N	.7	.15	N	N	.05	N	N	N	<10
I705070	38 3 33	89 24 29	N	2	1	.3	N	.2	N	N	N	30
I705090	38 3 33	89 24 29	<.05	3	2	.7	N	.3	N	N	N	70
I705110	38 3 33	89 24 29	.07	3	3	1	N	.3	N	N	N	70
I705130	38 3 33	89 24 29	<.05	5	3	1.5	N	.3	N	N	N	70
I705150	38 3 33	89 24 29	.05	5	2	1	N	.5	N	N	N	100
I705170	38 3 33	89 24 29	<.05	3	2	1	N	.3	N	N	N	70
I705190	38 3 33	89 24 29	<.05	1.5	1.5	.7	N	.2	N	N	N	30
I705210	38 3 33	89 24 29	.2	5	3	1	N	.3	N	N	N	100
I705230	38 3 33	89 24 29	N	1	.3	<.2	N	.15	N	N	N	30
I705250	38 3 33	89 24 29	.05	1.5	1	.2	N	.2	N	N	N	100
I705270	38 3 33	89 24 29	.07	2	1.5	.5	N	.2	N	N	N	70
I705290	38 3 33	89 24 29	.2	1	.7	.3	N	.15	N	N	N	30
I705310	38 3 33	89 24 29	.05	1.5	.5	<.2	N	.1	N	N	N	15
I705330	38 3 33	89 24 29	<.05	2	1	.3	N	.15	N	N	N	50
I705350	38 3 33	89 24 29	N	2	.7	.2	N	.15	N	N	N	30
I705370	38 3 33	89 24 29	.07	3	2	.7	N	.2	N	N	N	50
I705390	38 3 33	89 24 29	.05	5	1.5	.3	N	.2	N	N	N	70
I705410	38 3 33	89 24 29	5	5	7	1	N	.3	N	N	N	100
I705430	38 3 33	89 24 29	.2	5	2	1	N	.5	N	N	N	150
I705450	38 3 33	89 24 29	.2	5	1.5	.7	N	.3	N	N	N	150
I705470	38 3 33	89 24 29	.07	2	1	.2	N	.2	N	N	N	50
I705490	38 3 33	89 24 29	<.05	1.5	.7	.3	N	.2	N	N	N	30
I705510	38 3 33	89 24 29	N	3	1.5	.7	N	.3	N	N	N	70
I705530	38 3 33	89 24 29	.07	5	1.5	.7	N	.2	N	N	N	30
I705550	38 3 33	89 24 29	.05	5	2	1	N	.3	N	N	N	100
I705570	38 3 33	89 24 29	N	2	.7	.5	N	.2	N	N	N	50
I705590	38 3 33	89 24 29	N	1.5	.7	.2	N	.2	N	N	N	50
I705610	38 3 33	89 24 29	2	1.5	1	.5	N	.15	N	N	N	50
I705630	38 3 33	89 24 29	5	2	.3	.3	N	.15	N	N	N	30
I705650	38 3 33	89 24 29	.15	1.5	.5	.3	N	.15	N	N	N	50
I705670	38 3 33	89 24 29	.05	3	1	1	N	.3	N	N	N	70
I705700	38 3 33	89 24 29	N	2	.7	.5	N	.2	N	N	N	50
I705720	38 3 33	89 24 29	N	2	.7	.2	N	.15	N	N	N	30
I705740	38 3 33	89 24 29	.05	1.5	.3	N	N	.1	N	N	N	30
I705760	38 3 33	89 24 29	N	1.5	.5	<.2	N	.15	N	N	N	30
I705780	38 3 33	89 24 29	N	1	1	.3	N	.2	N	N	N	50
I705800	38 3 33	89 24 29	N	1.5	.7	.2	N	.1	N	N	N	20

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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
I704380	2,000	1	N	N	<10	50	30	50	N	N	50	5	N
I704400	300	1	N	N	10	70	30	100	N	N	150	<5	<20
I704420	1,000	1	N	N	10	70	30	70	N	N	100	N	N
I704440	300	<1	N	N	10	70	30	70	N	N	70	<5	N
I704460	1,500	<1	N	N	<10	100	50	70	N	N	50	7	N
I704480	2,000	1	N	N	<10	70	30	70	N	<50	70	<5	N
I704500	1,500	<1	N	N	N	20	20	70	N	N	70	N	N
I704520	2,000	<1	N	N	10	70	50	70	N	<50	150	<5	N
I704540	3,000	N	N	N	<10	50	30	50	N	N	50	N	N
I704560	2,000	1.5	N	N	10	50	30	50	N	<50	200	N	<20
I704580	500	N	N	N	N	20	30	30	N	N	30	N	N
I704600	500	<1	N	N	<10	30	20	20	N	N	50	N	N
I704630	300	1.5	N	N	10	70	30	100	N	<50	150	N	<20
I704650	50	N	N	N	N	N	10	N	N	N	15	N	N
I704670	100	N	N	N	N	N	<5	<5	N	N	15	N	N
I704900	150	<1	N	N	<10	15	15	30	N	N	70	N	N
I704930	300	N	N	N	<10	20	15	20	N	N	20	N	N
I704950	200	N	N	N	<10	20	7	20	N	N	30	N	N
I704970	150	N	N	N	N	N	<5	N	N	N	<10	N	N
I704990	50	N	N	N	N	N	N	N	N	N	<10	N	N
I705010	70	N	N	N	N	N	N	<5	N	N	<10	N	N
I705030	150	N	N	N	N	N	5	5	N	N	<10	N	N
I705050	50	N	N	N	N	N	<5	N	N	N	<10	N	N
I705070	1,000	<1	N	N	N	15	5	20	N	N	20	N	N
I705090	1,500	1.5	N	N	10	30	20	30	N	N	100	N	N
I705110	500	1.5	N	N	10	50	15	70	N	N	100	N	N
I705130	1,500	1	N	N	10	70	20	100	N	<50	150	N	N
I705150	3,000	1	N	N	10	50	10	70	N	<50	150	N	<20
I705170	2,000	<1	N	N	<10	20	300	50	N	N	100	N	N
I705190	1,000	N	N	N	<10	20	5	70	N	N	50	N	N
I705210	1,000	1	N	N	10	70	20	100	N	<50	300	N	<20
I705230	300	N	N	N	N	<10	5	10	N	N	<10	N	N
I705250	500	<1	N	N	N	10	5	10	N	N	50	N	N
I705270	300	<1	N	N	<10	20	10	50	N	N	150	N	N
I705290	700	N	N	N	N	10	7	20	N	N	10	N	N
I705310	500	N	N	N	N	<10	30	5	N	N	10	N	N
I705330	300	N	N	N	N	20	30	30	N	N	15	10	N
I705350	200	N	N	N	N	20	15	30	N	N	15	<5	N
I705370	200	<1	N	N	<10	30	15	70	N	N	70	5	N
I705390	200	<1	N	N	<10	15	20	30	N	N	30	5	N
I705410	500	1	N	N	<10	30	30	50	N	<50	150	15	N
I705430	700	1.5	N	N	10	50	30	70	N	<50	300	7	<20
I705450	500	1	N	N	10	20	20	30	N	<50	150	7	<20
I705470	200	N	N	N	N	10	15	15	N	N	50	5	N
I705490	200	N	N	N	N	10	10	20	N	N	30	<5	N
I705510	300	1	N	N	<10	20	20	30	N	N	70	5	N
I705530	200	<1	N	N	<10	20	10	30	N	N	70	10	N
I705550	500	1.5	N	N	<10	50	30	70	N	N	100	7	<20
I705570	300	<1	N	N	N	15	10	15	N	N	20	<5	N
I705590	300	N	N	N	N	20	30	20	N	N	15	<5	N
I705610	1,000	N	N	N	20	20	10	20	N	N	10	N	N
I705630	1,500	N	N	N	20	15	30	15	N	N	10	N	<20
I705650	300	N	N	N	N	15	10	20	N	N	20	N	N
I705670	500	N	N	N	<10	30	20	50	N	N	50	<5	N
I705700	150	N	N	N	N	10	10	20	N	N	30	N	N
I705720	200	N	N	N	N	<10	10	10	N	N	15	N	N
I705740	100	N	N	N	N	N	<5	N	N	N	10	N	N
I705760	150	N	N	N	N	<10	5	10	N	N	10	N	N
I705780	200	N	N	N	N	20	15	30	N	N	15	N	N
I705800	70	N	N	N	N	15	7	10	N	N	10	N	N

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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 #
I704380	15	10	N	<5	N	>5,000	N	70	N	N	N	50	.16	26
I704400	20	15	N	5	N	300	N	100	N	<10	200	70	.23	26
I704420	15	10	N	5	N	5,000	N	70	N	<10	N	70	.33	26
I704440	15	<10	N	5	N	700	N	70	N	<10	N	70	.11	30
I704460	20	20	N	7	N	>5,000	N	70	N	<10	N	70	.16	30
I704480	15	20	N	7	N	>5,000	N	100	N	<10	N	100	.25	30
I704500	7	20	N	<5	N	5,000	N	30	N	N	N	50	.27	30
I704520	15	70	N	7	N	>5,000	N	50	N	<10	N	50	.27	30
I704540	10	10	N	<5	N	>5,000	N	30	N	N	N	70	.35	30
I704560	15	10	N	7	N	>5,000	N	100	N	10	N	150	.23	30
I704580	7	<10	N	N	N	200	N	30	N	N	N	100	.23	30
I704600	10	100	N	<5	N	N	N	50	N	N	N	150	.1	30
I704630	20	<10	N	10	N	N	N	100	N	<10	N	150	.05	30
I704650	<5	15	N	N	N	N	N	15	N	N	N	30	.02	32
I704670	<5	N	N	N	N	<100	N	15	N	N	N	30	.01	32
I704900	7	N	N	<5	N	<100	N	50	N	N	N	50	.03	43
I704930	5	N	N	<5	N	1,500	N	30	N	N	N	50	.05	43
I704950	7	10	N	<5	N	<100	N	50	N	N	N	70	.05	43
I704970	<5	N	N	N	N	N	N	10	N	N	N	50	.02	43
I704990	N	N	N	N	N	N	N	<10	N	N	N	30	.01	43
I705010	<5	N	N	N	N	N	N	10	N	N	N	30	.03	43
I705030	5	N	N	N	N	N	N	15	<20	N	N	50	.02	43
I705050	<5	N	N	N	N	N	N	10	N	N	N	20	.01	43
I705070	7	N	N	<5	N	N	N	30	N	N	N	70	.05	43
I705090	15	<10	N	5	N	N	N	70	N	N	N	50	.05	43
I705110	15	100	N	5	N	N	N	70	N	<10	N	70	.06	44
I705130	15	10	N	7	N	N	N	70	N	<10	N	50	.05	44
I705150	15	150	N	7	N	N	N	100	N	<10	N	100	.06	44
I705170	10	<10	N	5	N	N	N	100	N	<10	N	50	.05	44
I705190	7	30	N	<5	N	N	N	50	N	N	N	70	.06	44
I705210	15	50	N	7	N	<100	N	100	N	<10	N	70	.07	44
I705230	<5	N	N	N	N	N	N	15	N	N	N	70	.04	44
I705250	5	N	N	<5	N	N	N	30	N	N	N	50	.04	44
I705270	7	<10	N	<5	N	N	N	50	N	N	N	50	.04	44
I705290	<5	N	N	N	N	1,000	N	30	N	N	N	70	.04	44
I705310	<5	10	N	N	N	3,000	N	15	<20	N	N	20	.03	44
I705330	7	20	N	N	N	1,500	N	30	N	N	N	20	.05	44
I705350	5	20	N	N	N	N	N	30	N	N	N	30	.05	44
I705370	7	20	N	<5	N	N	N	50	N	N	N	70	.04	44
I705390	10	20	N	<5	N	N	N	30	N	N	N	50	.04	44
I705410	10	30	N	5	N	N	N	70	N	<10	N	70	.06	44
I705430	20	15	N	7	N	N	N	100	N	10	N	70	.06	44
I705450	15	150	N	5	N	N	N	100	N	<10	N	70	.04	44
I705470	10	1,500	N	<5	N	N	N	30	N	N	N	50	.04	44
I705490	7	30	N	<5	N	<100	N	50	N	N	N	30	.04	44
I705510	15	20	N	5	N	N	N	50	N	N	N	70	.04	44
I705530	10	N	N	<5	N	N	N	70	N	N	N	50	.04	44
I705550	15	15	N	5	N	500	N	100	N	N	N	70	.05	44
I705570	7	N	N	<5	N	N	N	50	N	N	N	50	.04	44
I705590	5	<10	N	N	N	100	N	30	N	N	N	100	.09	44
I705610	5	50	N	<5	N	>5,000	N	30	700	N	N	50	.16	44
I705630	15	500	N	N	N	>5,000	N	20	1,000	N	N	50	.16	44
I705650	5	150	N	N	N	700	N	30	N	N	N	70	.06	44
I705670	15	50	N	<5	N	N	N	50	N	N	N	100	.04	44
I705700	7	N	N	N	N	N	N	30	N	N	N	50	.02	44
I705720	7	N	N	N	N	N	N	20	N	N	N	30	.02	44
I705740	5	N	N	N	N	N	N	15	N	N	N	15	.01	44
I705760	5	N	N	N	N	N	N	20	N	N	N	20	.02	44
I705780	5	N	N	N	N	N	N	30	N	N	N	30	.03	44
I705800	7	N	N	N	N	N	N	30	N	N	N	15	.03	44

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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
I705820	38 3 33	89 24 29	.05	3	1.5	.7	N	.2	N	N	N	30
I705840	38 3 33	89 24 29	<.05	5	2	1	N	.3	N	N	N	70
I705860	38 3 33	89 24 29	<.05	1.5	.7	.3	N	.15	N	N	N	30
I705880	38 3 33	89 24 29	N	1	.3	<.2	N	.1	N	N	N	20
I705900	38 3 33	89 24 29	N	.3	.1	N	N	.03	N	N	N	<10
I705920	38 3 33	89 24 29	<.05	5	2	1	N	.5	N	N	N	100
I705950	38 3 33	89 24 29	<.05	5	2	1	N	.2	N	N	N	70
I705970	38 3 33	89 24 29	N	7	2	1.5	N	.3	N	N	N	50
I705990	38 3 33	89 24 29	<.05	5	2	1.5	N	.5	N	N	N	100
I706010	38 3 33	89 24 29	.5	5	3	.5	N	.3	N	N	N	70
I706030	38 3 33	89 24 29	<.05	1	.2	N	N	.07	N	N	N	15
I706050	38 3 33	89 24 29	N	.5	.1	N	N	.02	N	N	N	<10
I706070	38 3 33	89 24 29	.05	1.5	1	.2	N	.15	N	N	N	30
I706090	38 3 33	89 24 29	.07	5	3	1	N	.3	N	N	N	50
I706110	38 3 33	89 24 29	<.05	2	1	.3	N	.15	N	N	N	50
I706130	38 3 33	89 24 29	<.05	.7	.2	N	N	.05	N	N	N	N
I706150	38 3 33	89 24 29	<.05	1	.2	N	N	.07	N	N	N	<10
I706170	38 3 33	89 24 29	.05	.5	.1	N	N	.05	N	N	N	15
I706190	38 3 33	89 24 29	.05	1	.3	<.2	N	.07	N	N	N	10
I706210	38 3 33	89 24 29	.2	3	3	.7	N	.2	N	N	N	50
I706230	38 3 33	89 24 29	.15	.7	.2	<.2	N	.07	N	N	N	20
I706250	38 3 33	89 24 29	.15	.3	.15	N	N	.05	N	N	N	15
I706270	38 3 33	89 24 29	<.05	.1	.03	N	N	.01	N	N	N	<10
I706290	38 3 33	89 24 29	<.05	.2	.05	N	N	.02	N	N	N	10
I706310	38 3 33	89 24 29	.3	1	.2	N	N	.1	N	N	N	20
I706330	38 3 33	89 24 29	N	.15	.05	N	N	.015	N	N	N	10
I706350	38 3 33	89 24 29	N	.7	.2	N	N	.05	N	N	N	20
I706370	38 3 33	89 24 29	<.05	.3	.1	N	N	.02	N	N	N	30
I706390	38 3 33	89 24 29	.05	1.5	.7	.2	N	.1	N	N	N	30
I706410	38 3 33	89 24 29	<.05	2	.7	.2	N	.15	N	N	N	30
I706430	38 3 33	89 24 29	.07	2	1	<.2	N	.15	N	N	N	30
I706450	38 3 33	89 24 29	<.05	3	1.5	.7	N	.2	N	N	N	50
I706470	38 3 33	89 24 29	.3	1	1	N	N	.07	N	N	N	15
I706490	38 3 33	89 24 29	.07	2	.7	<.2	N	.1	N	N	N	20
I706510	38 3 33	89 24 29	N	.3	.07	N	N	.01	N	N	N	<10
I706530	38 3 33	89 24 29	.07	1	.3	N	N	.07	N	N	N	20
I706550	38 3 33	89 24 29	.07	2	.3	<.2	N	.05	N	N	N	15
I706575	38 3 33	89 24 29	<.05	3	.3	<.2	N	.07	N	N	N	15
I706595	38 3 33	89 24 29	.1	7	1.5	.3	N	.1	N	N	N	20
I706615	38 3 33	89 24 29	<.05	20	1.5	.5	N	.15	<.5	N	N	10
I706635	38 3 33	89 24 29	<.05	10	.5	<.2	N	.1	N	N	N	30
I706655	38 3 33	89 24 29	5	2	5	<.2	N	.02	N	N	N	10
I706675	38 3 33	89 24 29	.07	7	.5	<.2	N	.1	N	N	N	30
I706695	38 3 33	89 24 29	.05	2	.3	N	N	.05	N	N	N	20
I706720	38 3 33	89 24 29	.1	10	.2	N	N	.05	<.5	N	N	15
I706740	38 3 33	89 24 29	.07	15	1.5	.7	N	.3	N	N	N	30
I706760	38 3 33	89 24 29	.05	10	.3	<.2	N	.07	N	N	N	20
I706780	38 3 33	89 24 29	.05	10	2	.5	N	.3	N	N	N	70
I706800	38 3 33	89 24 29	<.05	7	1	.2	N	.15	N	N	N	50
I706820	38 3 33	89 24 29	<.05	1.5	.3	<.2	N	.1	N	N	N	20
I706840	38 3 33	89 24 29	N	2	.3	.2	N	.15	N	N	N	15
I706860	38 3 33	89 24 29	N	3	.5	.2	N	.2	N	N	N	30
I706880	38 3 33	89 24 29	.05	5	1.5	.5	N	.3	N	N	N	50
I706900	38 3 33	89 24 29	<.05	2	1	.3	N	.15	N	N	N	30
I706920	38 3 33	89 24 29	.1	7	3	1	N	.5	N	N	N	70
I706940	38 3 33	89 24 29	.07	5	2	.7	N	.3	N	N	N	30

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. I70, 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
I705820	300	N	N	N	<10	20	10	50	N	N	70	N	N
I705840	300	<1	N	N	<10	30	15	50	N	N	100	N	N
I705860	200	N	N	N	N	N	5	5	N	N	15	N	N
I705880	100	N	N	N	N	N	15	<5	N	N	15	N	N
I705900	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I705920	300	1.5	N	N	10	30	20	30	N	N	150	<5	N
I705950	200	1	N	N	10	20	15	70	N	N	70	<5	N
I705970	300	1	N	N	10	30	15	100	N	N	100	N	N
I705990	500	1.5	N	N	70	30	30	70	N	<50	150	N	<20
I706010	300	1	N	N	<10	20	15	50	N	N	150	5	N
I706030	30	N	N	N	N	N	N	N	N	N	<10	N	N
I706050	<20	N	N	N	N	N	<5	N	N	N	N	N	N
I706070	100	<1	N	N	<10	<10	15	7	N	N	70	5	N
I706090	200	1	N	N	10	50	15	70	N	N	100	N	N
I706110	100	N	N	N	<10	<10	7	20	N	N	70	<5	N
I706130	50	N	N	N	N	N	N	N	N	N	<10	N	N
I706150	50	N	N	N	N	N	N	N	N	N	10	N	N
I706170	30	N	N	N	N	N	N	N	N	N	<10	N	N
I706190	70	N	N	N	N	N	20	<5	N	N	15	<5	N
I706210	200	<1	N	N	10	20	15	30	N	N	100	5	N
I706230	70	N	N	N	N	N	10	<5	N	N	<10	5	N
I706250	50	N	N	N	N	N	<5	N	N	N	N	N	N
I706270	<20	N	N	N	N	N	N	N	N	N	N	N	N
I706290	<20	N	N	N	N	N	N	N	N	N	N	N	N
I706310	100	N	N	N	N	N	15	<5	N	N	<10	5	N
I706330	<20	N	N	N	N	N	N	N	N	N	N	N	N
I706350	50	N	N	N	N	N	<5	N	N	N	10	N	N
I706370	20	N	N	N	N	N	N	N	N	N	N	N	N
I706390	70	N	N	N	N	<10	10	5	N	N	20	<5	N
I706410	70	N	N	N	N	<10	20	7	N	N	15	<5	N
I706430	100	<1	N	N	N	<10	10	5	N	N	30	7	N
I706450	500	1	N	N	10	20	30	20	N	N	300	7	N
I706470	30	N	N	N	N	N	7	<5	N	N	15	<5	N
I706490	70	N	N	N	N	<10	15	5	N	N	20	5	N
I706510	<20	N	N	N	N	N	N	N	N	N	<10	N	N
I706530	50	N	N	N	N	N	30	N	N	N	50	5	N
I706550	30	N	N	N	N	N	10	<5	N	N	70	<5	N
I706575	70	N	N	N	N	N	20	<5	N	N	30	5	N
I706595	100	<1	N	N	<10	10	50	10	N	N	70	5	N
I706615	150	<1	N	N	<10	15	30	20	N	N	200	10	N
I706635	100	N	N	N	N	<10	20	15	N	N	50	7	N
I706655	30	N	N	N	N	N	10	<5	N	N	30	<5	N
I706675	150	N	N	N	N	<10	30	7	N	N	50	5	N
I706695	70	N	N	N	N	N	15	N	N	N	15	<5	N
I706720	50	N	N	N	N	N	70	<5	N	N	70	5	N
I706740	200	<1	N	N	10	15	30	50	N	N	100	5	N
I706760	50	N	N	N	N	N	20	<5	N	N	50	<5	N
I706780	300	1	N	N	10	20	50	30	N	N	200	7	<20
I706800	70	N	N	N	<10	<10	20	10	N	N	50	15	N
I706820	70	N	N	N	N	N	7	<5	N	N	20	5	N
I706840	100	N	N	N	N	<10	7	7	N	N	15	5	N
I706860	200	<1	N	N	<10	10	15	15	N	N	20	5	N
I706880	200	1	N	N	<10	20	30	20	N	N	70	7	N
I706900	100	<1	N	N	<10	10	15	7	N	N	50	N	N
I706920	500	1.5	N	N	15	100	50	100	N	<50	150	7	<20
I706940	200	<1	N	N	10	50	30	50	N	N	50	5	N

TABLE 42--ANALYTICAL RESULTS OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. 170, 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 #
I705820	7	<10	N	<5	N	N	N	100	N	N	N	30	.05	44
I705840	15	20	N	<5	N	N	N	100	N	N	N	50	.04	44
I705860	5	N	N	N	N	N	N	30	N	N	N	20	.02	44
I705880	<5	N	N	N	N	N	N	20	N	N	N	15	.02	46
I705900	N	N	N	N	N	N	N	N	N	N	N	N	.01	46
I705920	20	500	N	7	N	N	N	100	N	<10	N	70	.02	46
I705950	10	10	N	<5	N	N	N	70	N	N	N	50	.04	46
I705970	15	N	N	5	N	N	N	70	N	N	N	50	.05	46
I705990	10	<10	N	7	N	N	N	100	200	<10	N	70	.07	46
I706010	10	100	N	<5	N	N	N	70	<20	N	N	50	.04	46
I706030	N	N	N	N	N	N	N	15	20	N	N	<10	.02	46
I706050	N	N	N	N	N	N	N	10	20	N	N	N	.01	46
I706070	7	<10	N	N	N	N	N	50	50	N	N	20	.03	46
I706090	10	<10	N	5	N	N	N	70	N	N	N	50	.05	46
I706110	5	N	N	N	N	N	N	30	30	N	N	30	.02	46
I706130	<5	150	N	N	N	N	N	<10	<20	N	N	N	.01	46
I706150	5	N	N	N	N	N	N	15	<20	N	N	10	.01	46
I706170	<5	N	N	N	N	N	N	10	N	N	N	10	.01	46
I706190	5	200	N	N	N	N	N	30	<20	N	N	15	.03	46
I706210	10	150	N	<5	N	N	N	70	N	N	N	50	.02	46
I706230	5	N	N	N	N	N	N	15	N	N	N	15	.02	46
I706250	N	N	N	N	N	N	N	10	20	N	N	<10	.01	46
I706270	N	N	N	N	N	N	N	N	N	N	N	N	.01	46
I706290	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	46
I706310	5	10	N	N	N	N	N	15	N	N	N	15	.02	46
I706330	N	N	N	N	N	N	N	N	N	N	N	N	.01	63
I706350	<5	15	N	N	N	N	N	15	N	N	N	15	.01	63
I706370	N	N	N	N	N	N	N	<10	N	N	N	<10	.01	63
I706390	5	N	N	N	N	N	N	20	N	N	N	30	.02	63
I706410	10	15	N	N	N	N	N	30	N	N	N	30	.02	63
I706430	7	30	N	<5	N	N	N	50	N	N	N	30	.02	63
I706450	15	150	N	5	N	N	N	70	N	N	N	50	.04	64
I706470	5	<10	N	N	N	N	N	10	N	N	N	10	.01	64
I706490	7	20	N	N	N	N	N	20	N	N	N	15	.02	64
I706510	N	N	N	N	N	N	N	N	N	N	N	N	.01	64
I706530	7	100	N	N	N	N	N	15	N	N	N	15	.02	64
I706550	5	50	N	N	N	N	N	10	N	N	N	10	.02	64
I706575	5	150	N	N	N	N	N	15	N	N	N	15	.02	64
I706595	7	200	N	<5	N	N	N	20	N	N	N	20	.06	64
I706615	10	200	N	5	N	N	N	30	N	N	<200	20	.04	64
I706635	10	200	N	N	N	N	N	30	N	N	<200	20	.03	64
I706655	<5	150	N	N	N	N	N	<10	N	N	N	<10	.02	64
I706675	10	200	N	N	N	N	N	20	N	N	<200	30	.03	64
I706695	<5	500	N	N	N	N	N	10	N	N	N	20	.02	64
I706720	5	300	N	N	N	N	N	<10	N	N	200	10	.01	64
I706740	15	1,000	N	5	N	N	N	30	N	<10	<200	50	.03	64
I706760	5	200	N	N	N	N	N	15	N	N	<200	15	.02	64
I706780	15	700	N	5	N	N	N	50	N	<10	<200	70	.04	64
I706800	10	500	N	N	N	N	N	20	N	N	200	20	.03	64
I706820	5	20	N	N	N	N	N	15	N	N	N	20	.02	64
I706840	7	20	N	N	N	N	N	15	N	N	N	30	.03	64
I706860	10	20	N	N	N	N	N	30	N	N	N	70	.03	64
I706880	10	500	N	<5	N	N	N	50	N	N	N	70	.03	64
I706900	7	500	N	N	N	N	N	50	N	N	N	30	.02	64
I706920	30	100	N	7	N	N	N	70	N	<10	N	100	.05	66
I706940	15	70	N	<5	N	N	N	30	N	N	N	50	.05	66

Table 43. **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
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