

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**Spectrographic analyses of insoluble-residue samples,
Harrison 1° x 2° quadrangle, Missouri and Arkansas
Drill hole nos. 64, 65, 66, and 67**

By

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This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

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INTRODUCTION

Geochemical studies of the Harrison 1° x 2° quadrangle, Missouri and Arkansas, were begun in 1983 as part of a multidisciplinary study of the quadrangle by the U.S. Geological Survey, the Missouri Division of Geology and Land Survey, and the Arkansas Geological Commission. The purpose of the study was to assess the mineral resource potential of the area by integrated geologic, geochemical, and geophysical studies.

The geochemical work has been directed at the characterization of the sedimentary rocks in the quadrangle through spectrographic 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 and the Arkansas Geological Commission. None of the holes are company confidential and none intersect economically significant mineralized ground.

The analytical results for drill hole no. 64 (Missouri log number 25852), drill hole no. 65 (Missouri log number 26505), drill hole no. 66 (Missouri log number 26928), and drill hole no. 67 (Arkansas I.D., Hasty Core Hole) are given in this report. Drill hole no. 64 is located in sec. 6, T. 21 N., R. 15 W. in Marion County, Arkansas; drill hole no. 65 is located in sec. 33, T. 19 N., R. 16 W. in Marion County, Arkansas; drill hole no. 66 is located in sec. 8, T. 19 N., R. 19 W. in Boone County, Arkansas; and drill hole no. 67 is located in sec. 33, T. 17 N., R. 19 W., in Newton County, Arkansas (fig. 1). Data for the insoluble-residue in samples in drill holes 64, 65, 66, and 67 are listed in tables 1, 2, 3, and 4, respectively. Missouri log number, county, and location allow correlation with the stratigraphic logs on file at the Missouri Division of Geology and Land Survey, Rolla, Missouri. Arkansas ID (well name), county, and location allow identification and the ability to locate samples in Arkansas at the Arkansas Geologic Commission, Little Rock, Arkansas.

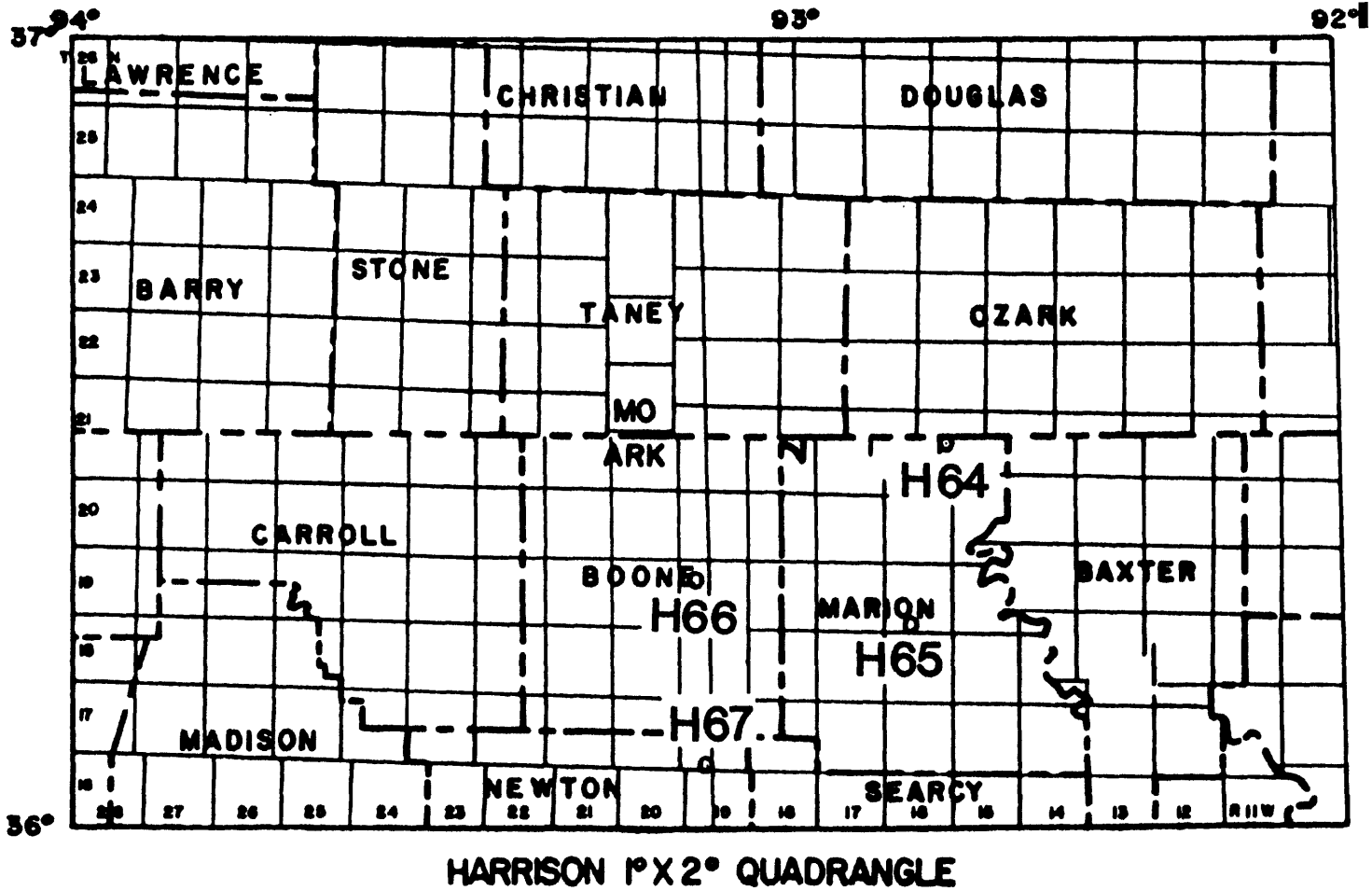
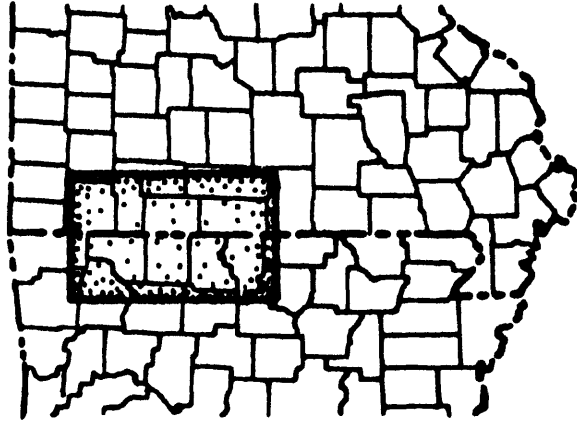
PREPARATION AND ANALYSIS OF SAMPLES

Insoluble residues were prepared by dissolving approximately 80 grams of crushed carbonate rock in repeated applications of 1:5 hydrochloric acid until the carbonate was removed. The samples were then filtered and dried overnight at 50 °C.

The samples were then 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 in 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.

Each sample was analyzed semiquantitatively for 31 elements using a six-step D.C.-arc optical-emission spectrographic method (Grimes and Marranzino, 1968).

The semiquantitative spectrographic values are reported as six steps per order of magnitude (1, 0.7, 0.5, 0.3, 0.2, and 0.15) and are approximate geometric midpoints of the concentration ranges. The precision is shown to be within one adjoining reporting interval on each side of the reported value 83 percent of the time and within two adjoining intervals on each side of the reported value 96 percent of the time (Motooka and Grimes, 1976).



Locations of drill holes discussed in this report

Figure 1. Locations of drill holes, Harrison 1° x 2° quadrangle, Missouri and Arkansas.

The visual lower limits of determination for the 31 elements that were determined spectrographically for this report are as follows:

For those given in percent:

Calcium	0.05
Iron	0.05
Magnesium	0.02
Titanium	0.002

For those given in ppm:

Antimony	100	Molybdenum	5
Arsenic	200	Nickel	5
Barium	20	Niobium	20
Beryllium	1	Scandium	5
Bismuth	10	Silver	0.5
Boron	10	Strontium	100
Cadmium	20	Thorium	100
Chromium	10	Tin	10
Cobalt	5	Tungsten	50
Copper	5	Vanadium	10
Gold	10	Yttrium	10
Lanthanum	20	Zinc	200
Lead	10	Zirconium	10
Manganese	10		

DESCRIPTION OF DATA TABLES

Each sample is identified by an eight-character code beginning with the letter H, signifying Harrison. The next number signifies the USGS drill-hole number. The letter R follows this number and signifies insoluble residue. The last four digits identify the depth of the sample from the drill-hole collar. Most samples are composites of approximate 10-20 foot intervals, dependent upon the original sample intervals and upon the amount of sample material available for analysis. Please note that in many of the tables a large percentage of the tungsten values are reported as less than 50 ppm. The presence of tungsten may be a result of tungsten carbide drill bit contamination.

The stratigraphic unit of the sample is identified by a coded number in the last column (tables 1 through 4) following the thorium column. The code and formation names are as follows:

<u>Code</u>	<u>Formation</u>
31	Undifferentiated Mississippian Units
23	Everton Formation
22	Powell Dolomite
21	Cotter Dolomite
20	Jefferson City Dolomite
39	Cotter Dolomite--Jefferson City Dolomite Undifferentiated

19	Roubidoux Formation
18	Gasconade Formation
17	Gunter Sandstone member of the Gasconade Formation
45	Igneous Conglomerate
11	Precambrian Rocks

EXPLANATION OF DATA

The columns in tables 1 through 4 have headings of sample, elements, and formation. The letter S over the columns signifies emission-spectrographic data.

Iron, magnesium, calcium, and titanium are reported in percent (%); all other elements are in parts per million. Other symbols shown on the tables are:

- N = Not detected at the limit of determination shown;
- < = Detected, but below the limit of determination shown; and
- > = Greater than the limit of determination shown.

Because of the formatting used in the computer program that produced tables 1-4, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant zeros to the right of the significant digits. The analyst did not determine these elements to the accuracy suggested by the extra zeros.

RASS

Upon completion of all analytical work, the information from the samples is entered into a computer-based file called RASS (Rock Analysis Storage System). This RASS file contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and placed in a standard form (STATPAC) for computerized statistical manipulation or publication (VanTrump and Miesch, 1977).

ACKNOWLEDGMENTS

The authors wish to thank the Missouri Division of Geology and Land Survey--Dr. Wallace B. Howe, former Director, and Dr. J. Hadley Williams, Director--and the Arkansas Geological Commission, Dr. Norman F. Williams, State Geologist, for making these drill-hole samples available from their sample libraries.

REFERENCES

- Grimes, D.J., and Marranzino, A.P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.
- Motooka, J.M., and Grimes, D.J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.
- VanTrump, George, Jr., and Miesch, A.T., 1977, The U.S. Geological Survey RASS-STATPAC system for management and statistical reduction of geochemical data: Computers and Geosciences, v. 3, p. 475-488.

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS

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

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S
H64R0020	.05	.07	.05	.030	10	N	N	N	50	200
H64R0030	.15	.30	.10	.500	15	N	N	N	150	500
H64R0040	1.00	.50	.10	.50	30	N	N	N	200	300
H64R0050	.10	.50	.20	.150	20	N	N	N	100	200
H64R0060	.07	.10	.05	.100	15	N	N	N	50	300
H64R0070	.15	.50	.20	.150	15	N	N	N	100	200
H64R0080	.50	.70	1.00	.150	20	N	N	N	150	300
H64R0090	.20	.30	.15	.150	15	N	N	N	70	300
H64R0100	.10	.07	.07	.020	10	N	N	N	100	150
H64R0110	.20	1.00	.20	.200	20	N	N	N	200	300
H64R0120	.15	.50	.20	.100	15	N	N	N	100	200
H64R0130	.20	.70	.70	.070	15	N	N	N	100	100
H64R0150	.50	.20	.10	.150	20	N	N	N	100	200
H64R0170	.20	.20	.30	.070	10	N	N	N	770	300
H64R0180	.15	.50	.20	.100	10	N	N	N	100	300
H64R0190	.10	.10	.10	.015	10	N	N	N	15	50
H64R0210	.15	.30	.15	.200	10	N	N	N	100	300
H64R0220	.10	.20	.20	.100	10	N	N	N	50	200
H64R0240	.07	.07	.10	.050	10	N	N	N	50	100
H64R0250	.20	.10	.15	.070	15	N	N	N	70	150
H64R0270	.30	.07	.07	.070	15	N	N	N	50	100
H64R0290	.30	.07	.05	.070	10	N	N	N	50	100
H64R0310	.50	.07	.05	.070	15	N	N	N	50	100
H64R0330	.70	.50	.07	.200	20	N	N	N	100	150
H64R0350	1.00	.70	.20	.300	30	N	N	N	150	300
H64R0370	.70	.10	.15	.150	20	N	N	N	100	200
H64R0375	.50	.10	.05	.100	20	N	N	N	70	150
H64R0385	.70	.50	.50	.150	20	N	N	N	100	150
H64R0405	1.00	.30	.10	.200	30	N	N	N	100	200
H64R0420	1.50	.20	.07	.150	50	N	N	N	70	200
H64R0430	1.50	.50	.20	.300	20	N	N	N	100	200
H64R0440	7.00	.50	.05	.300	30	N	N	N	100	200
H64R0450	1.00	.30	.20	.100	10	N	N	N	50	100
H64R0460	.20	.05	.10	.030	10	N	N	N	30	50
H64R0470	1.50	.50	.05	.300	20	N	N	N	100	200
H64R0480	.30	.03	<.05	.050	10	N	N	N	50	50
H64R0490	.50	.10	.05	.200	20	N	N	N	100	100
H64R0500	.50	.10	.05	.150	20	N	N	N	50	150
H64R0510	1.00	.30	.05	.200	30	N	N	N	150	200
H64R0530	1.00	.30	.10	.200	50	.5	N	N	100	200
H64R0540	.07	.02	<.05	.010	10	N	N	N	50	50
H64R0550	2.00	.50	.05	.200	30	.5	N	N	100	200
H64R0560	.20	.05	.05	.015	10	N	N	N	50	70
H64R0580	.10	.05	<.05	.010	<10	N	N	N	30	100
H64R0600	.10	<.02	<.05	.005	10	N	N	N	50	50

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H64R0020	<1	N	N	<5	15	<5	N	<5	N	5	<10
H64R0030	1	N	N	<5	50	5	N	5	<20	5	10
H64R0040	1	N	N	<5	100	10	N	7	N	10	15
H64R0050	<1	N	N	<5	20	<5	N	<5	N	5	<10
H64R0060	<1	N	N	<5	20	<5	N	<5	N	5	<10
H64R0070	<1	N	N	<5	30	5	N	<5	N	5	<10
H64R0080	<1	N	N	<5	20	10	N	10	N	7	50
H64R0090	N	N	N	<5	20	<5	N	<5	N	7	10
H64R0100	N	N	N	<5	15	<5	N	<5	N	5	<10
H64R0110	1	N	N	<5	20	5	N	<5	N	7	10
H64R0120	N	N	N	<5	15	5	N	<5	N	5	<10
H64R0130	N	N	N	<5	10	7	N	<5	N	7	30
H64R0150	N	N	N	<5	20	5	N	5	N	7	20
H64R0170	N	N	N	<5	15	7	N	<5	N	7	<10
H64R0180	<1	N	N	<5	20	<5	N	<5	N	7	<10
H64R0190	N	N	N	<5	10	<5	N	<5	N	7	<10
H64R0210	<1	N	N	<5	20	5	N	<5	N	5	<10
H64R0220	<1	N	N	<5	15	<5	N	<5	N	5	<10
H64R0240	N	N	N	<5	15	<5	N	<5	N	<5	<10
H64R0250	N	N	N	<5	20	5	N	5	N	5	<10
H64R0270	N	N	N	<5	15	<5	N	5	N	5	<10
H64R0290	N	N	N	<5	20	<5	N	7	N	5	<10
H64R0310	N	N	N	<5	15	5	N	7	N	5	<10
H64R0330	1	N	N	7	30	10	N	10	N	20	20
H64R0350	1	N	N	10	50	20	N	30	N	30	50
H64R0370	<1	N	N	<5	20	10	N	30	N	10	20
H64R0375	<1	N	N	<5	20	10	N	20	N	15	15
H64R0385	<1	N	N	<5	30	15	N	15	N	15	30
H64R0405	1	N	N	<5	50	15	N	20	N	20	20
H64R0420	1	N	N	<5	20	15	N	20	N	15	20
H64R0430	1	N	N	<5	50	30	N	30	N	20	20
H64R0440	1	N	N	7	50	50	N	50	N	50	50
H64R0450	<1	N	N	<5	20	7	N	20	N	10	<10
H64R0460	N	N	N	<5	15	<5	N	5	N	5	<10
H64R0470	1	N	N	5	50	15	N	15	N	20	15
H64R0480	N	N	N	<5	15	<5	N	<5	N	7	<10
H64R0490	<1	N	N	<5	20	5	N	7	N	10	15
H64R0500	<1	N	N	<5	15	5	N	10	N	10	<10
H64R0510	1	N	N	5	30	50	N	20	N	20	20
H64R0530	1	N	N	5	30	50	N	20	N	20	30
H64R0540	N	N	N	<5	10	<5	N	10	N	5	<10
H64R0550	1	N	N	7	20	30	N	30	N	20	50
H64R0560	N	N	N	<5	<10	<5	N	20	N	7	<10
H64R0580	N	N	N	<5	<10	<5	N	10	N	7	<10
H64R0600	N	N	N	<5	<10	<5	N	5	N	7	<10

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Si-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H64R0020	N	N	N	300	10	<50	N	N	50	N	21
H64R0030	N	5	N	5,000	50	<50	N	N	200	N	21
H64R0040	N	7	N	300	50	<50	N	N	200	N	21
H64R0050	N	<5	N	100	20	<50	N	N	70	N	21
H64R0060	N	<5	N	100	20	<50	N	N	70	N	21
H64R0070	N	<5	N	200	30	<50	N	N	100	N	21
H64R0080	N	<5	N	200	30	<50	N	N	200	N	21
H64R0090	N	<5	N	300	20	<50	N	N	100	N	21
H64R0100	N	N	N	500	15	<50	N	N	20	N	21
H64R0110	N	5	N	300	50	<50	N	N	70	N	21
H64R0120	N	<5	N	100	15	<50	N	N	70	N	21
H64R0130	N	<5	N	<100	15	<50	N	N	30	N	21
H64R0150	N	<5	N	<100	20	<50	N	<200	50	N	21
H64R0170	N	N	N	300	15	<50	N	N	30	N	21
H64R0180	N	<5	N	100	20	<50	N	N	150	N	21
H64R0190	N	N	N	<100	<10	<50	N	N	50	N	21
H64R0210	N	5	N	<100	20	<50	N	N	100	N	21
H64R0220	N	N	N	N	20	<50	N	N	70	N	21
H64R0240	N	N	N	150	15	<50	N	N	50	N	21
H64R0250	N	N	N	<100	15	<50	N	N	50	N	21
H64R0270	N	N	N	<100	15	<50	N	N	50	N	20
H64R0290	N	N	N	<100	20	<50	N	N	100	N	20
H64R0310	N	<5	N	<100	15	<50	N	200	100	N	20
H64R0330	N	<5	N	<100	30	<50	N	3,000	50	N	20
H64R0350	N	5	N	<100	50	<50	N	N	100	N	20
H64R0370	N	<5	N	<100	20	<50	N	<200	50	N	20
H64R0375	N	<5	N	<100	20	<50	N	<200	50	N	20
H64R0385	N	<5	N	<100	20	<50	N	1,500	70	N	20
H64R0405	N	5	N	<100	50	<50	N	<200	70	N	20
H64R0420	N	5	N	<100	30	<50	N	<200	50	N	20
H64R0430	N	5	N	<100	50	<50	N	200	50	N	20
H64R0440	N	5	N	<100	70	<50	N	5,000	50	N	20
H64R0450	N	N	N	<100	15	<50	N	200	30	N	20
H64R0460	N	N	N	<100	15	<50	N	N	20	N	20
H64R0470	N	5	N	<100	20	<50	N	N	70	N	20
H64R0480	N	N	N	<100	15	<50	N	200	10	N	20
H64R0490	N	<5	N	<100	30	<50	N	200	50	N	20
H64R0500	N	<5	N	<100	20	<50	N	<200	100	N	20
H64R0510	N	5	N	<100	50	<50	N	1,500	70	N	20
H64R0530	N	5	N	<100	70	<50	N	N	100	N	20
H64R0540	N	N	N	<100	10	<50	N	N	50	N	20
H64R0550	N	5	N	<100	50	<50	N	1,000	50	N	20
H64R0560	N	N	N	<100	<10	<50	N	<10	<10	N	19
H64R0580	N	N	N	<100	<10	<50	N	N	20	N	19
H64R0600	N	N	N	<100	<10	<50	N	N	20	N	19

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Hg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S
H64R0620	1.50	.02	<.05	.050	<10	N	N	N	50	70
H64R0640	.05	.02	<.05	.007	<10	N	N	N	20	50
H64R0650	1.00	.20	.10	.100	20	N	N	N	50	200
H64R0660	.15	.02	<.05	.020	15	N	N	N	15	100
H64R0680	.20	.15	.10	.050	15	N	N	N	30	100
H64R0700	.20	.10	.07	.050	10	N	N	N	50	70
H64R0710	.50	.10	<.05	.050	10	N	N	N	30	100
H64R0730	.07	.02	<.05	.010	10	N	N	N	15	30

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Ri-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H64R0620	N	N	N	<5	<10	7	N	15	N	7	<10
H64R0640	N	N	N	<5	<10	<5	N	<5	N	7	<10
H64R0650	<1	N	N	<5	15	10	N	50	N	10	<10
H64R0660	N	N	N	<5	<10	<5	N	7	N	5	<10
H64R0680	N	N	N	<5	10	5	N	10	N	7	<10
H64R0700	N	N	N	<5	10	5	N	20	N	7	<10
H64R0710	N	N	N	<5	<10	5	N	15	N	7	<10
H64R0730	N	N	N	<5	10	<5	N	7	N	5	<10

TABLE 1.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H64, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H64R0620	N	N	N	<100	<10	<50	N	N	20	N	19
H64R0640	N	N	N	<100	<10	<50	N	N	20	N	19
H64R0650	N	N	N	<100	50	<50	N	N	100	N	19
H64R0660	N	N	N	<100	20	<50	N	N	30	N	19
H64R0680	N	N	N	<100	30	<50	N	N	30	N	19
H64R0700	N	N	N	<100	30	<50	N	N	20	N	19
H64R0710	N	N	N	<100	20	<50	N	N	1,000	N	19
H64R0730	N	N	N	<100	15	<50	N	N	30	N	19

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS
 (N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.)

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S
H65R0030	.50	2.00	2.00	.200	30	N	N	N	100	300
H65R0050	1.50	1.00	1.00	.200	20	N	N	N	70	500
H65R0060	2.00	1.50	.70	.300	50	N	N	N	300	300
H65R0080	2.00	1.50	2.00	.200	50	N	N	N	200	200
H65R0090	1.50	2.00	3.00	.300	100	N	N	N	200	200
H65R0100	1.00	3.00	2.00	.300	50	N	N	N	200	200
H65R0120	1.50	1.50	2.00	.200	30	N	N	N	150	150
H65R0130	1.50	1.50	2.00	.300	50	N	N	N	200	300
H65R0150	3.00	1.50	1.50	.300	50	N	N	N	200	300
H65R0170	1.50	1.50	1.00	.300	70	N	N	N	200	300
H65R0190	2.00	1.50	1.00	.300	50	N	N	N	100	200
H65R0210	.50	1.00	1.00	.150	10	N	N	N	100	150
H65R0230	1.00	1.00	1.00	.150	30	N	N	N	70	100
H65R0240	.50	1.00	1.00	.100	15	N	N	N	70	100
H65R0260	.30	1.00	1.00	.150	15	N	N	N	70	100
H65R0270	.70	1.00	1.00	.150	20	N	N	N	100	500
H65R0280	.70	1.00	.70	.100	15	N	N	N	70	100
H65R0300	1.00	.50	.30	.150	20	N	N	N	70	150
H65R0320	.15	.30	.20	.100	15	N	N	N	70	100
H65R0340	.20	.50	1.00	.070	15	N	N	N	70	100
H65R0360	.30	.50	1.00	.100	15	N	N	N	50	150
H65R0380	.20	.30	.20	.070	15	N	N	N	70	200
H65R0400	1.00	1.00	2.00	.150	20	N	N	N	70	200
H65R0410	2.00	5.00	5.00	.300	150	N	N	N	200	200
H65R0440	2.00	.70	1.00	.070	20	<.5	N	N	70	150
H65R0460	.30	.20	.20	.050	10	N	N	N	50	200
H65R0480	1.50	.50	.20	.500	50	.5	N	N	150	300
H65R0500	1.00	2.00	5.00	.200	70	N	N	N	100	200
H65R0520	.70	.70	.50	.200	30	N	N	N	100	200
H65R0540	1.00	.70	.50	.200	30	N	N	N	70	150
H65R0560	.50	.50	.20	.150	20	N	N	N	100	200
H65R0580	.70	.50	.15	.200	20	N	N	N	100	200
H65R0600	1.00	1.00	2.00	.200	30	N	N	N	100	200
H65R0620	.20	.70	.70	.100	15	N	N	N	70	200
H65R0640	.30	.70	.50	.100	20	N	N	N	70	200
H65R0660	.70	.50	.15	.200	20	N	N	N	70	200
H65R0680	.20	.50	.10	.050	10	N	N	N	70	100
H65R0700	.50	.30	.15	.150	20	N	N	N	70	100
H65R0720	.50	.05	.05	.050	15	N	N	N	50	200
H65R0740	.70	.10	.15	.030	15	N	N	N	70	50
H65R0760	.70	.50	.50	.150	50	N	N	N	100	200
H65R0780	.20	.10	.10	.050	20	N	N	N	50	100
H65R0800	.30	.05	.05	.030	15	N	N	N	50	100
H65R0820	1.50	1.00	.30	.200	15	N	N	N	70	200
H65R0840	.50	.20	.20	.100	15	N	N	N	50	200

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H65R0030	1.0	N	N	<5	20	15	N	7	N	7	15
H65R0050	1.0	N	N	<5	20	30	N	5	N	10	20
H65R0060	2.0	N	N	20	70	50	<20	5	N	50	50
H65R0080	1.5	N	N	10	50	30	N	7	N	30	70
H65R0090	2.0	N	N	20	70	30	50	5	N	30	50
H65R0100	1.5	N	N	10	50	30	N	7	N	20	100
H65R0120	1.0	N	N	10	50	70	N	10	N	30	100
H65R0130	1.5	N	N	10	70	20	N	10	N	30	50
H65R0150	1.5	N	N	15	70	30	N	15	N	50	150
H65R0170	1.5	N	N	15	50	30	N	7	N	50	100
H65R0190	2.0	N	N	20	50	30	N	10	N	70	50
H65R0210	<1.0	N	N	5	15	15	N	10	N	10	15
H65R0230	1.0	N	N	5	20	20	N	15	N	20	30
H65R0240	<1.0	N	N	<5	15	15	N	5	N	10	20
H65R0260	<1.0	N	N	<5	15	7	N	5	N	10	10
H65R0270	1.0	N	N	<5	20	10	N	10	N	10	30
H65R0280	<1.0	N	N	<5	15	15	N	10	N	15	<10
H65R0300	<1.0	N	N	<5	15	10	N	15	N	15	20
H65R0320	<1.0	N	N	<5	15	7	N	5	N	10	20
H65R0340	<1.0	N	N	5	15	10	N	7	N	7	<10
H65R0360	<1.0	N	N	5	15	10	N	7	N	10	10
H65R0380	<1.0	N	N	5	15	7	N	10	N	10	15
H65R0400	<1.0	N	N	5	20	20	N	20	N	20	50
H65R0410	1.5	N	N	10	150	50	N	20	N	50	150
H65R0440	<1.0	N	N	5	15	50	N	15	N	10	30
H65R0460	N	N	N	<5	15	10	N	50	N	10	10
H65R0480	1.0	N	N	15	100	30	N	50	N	30	100
H65R0500	1.0	N	N	10	50	20	N	20	N	30	70
H65R0520	1.5	N	N	5	50	15	N	15	N	15	30
H65R0540	<1.0	N	N	5	30	15	N	10	N	15	20
H65R0560	<1.0	N	N	<5	20	50	N	10	N	15	50
H65R0580	<1.0	N	N	5	30	20	N	10	N	15	30
H65R0600	<1.0	N	N	5	30	20	N	10	N	15	50
H65R0620	<1.0	N	N	<5	15	7	N	7	N	10	20
H65R0640	<1.0	N	N	<5	20	10	N	20	N	10	20
H65R0660	<1.0	N	N	5	30	15	N	15	N	15	30
H65R0680	<1.0	N	N	<5	15	5	N	7	N	10	<10
H65R0700	<1.0	N	N	5	15	500	N	10	N	10	<10
H65R0720	N	N	N	<5	15	7	N	5	N	10	<10
H65R0740	N	N	N	<5	15	10	N	5	N	10	<10
H65R0760	<1.0	N	N	<5	20	20	N	7	N	15	20
H65R0780	N	N	N	<5	15	150	N	<5	N	7	<10
H65R0800	N	N	N	<5	10	10	N	7	N	10	<10
H65R0820	<1.0	N	N	<5	20	10	N	20	N	20	<10
H65R0840	<1.0	N	N	<5	20	10	N	15	N	10	<10

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H65R0030	N	5	N	<100	50	<50	N	N	200	N	22
H65R0050	N	5	N	<100	50	<50	N	N	200	N	22
H65R0060	N	10	N	<100	100	<50	N	N	100	N	22
H65R0080	N	7	N	<100	70	<50	N	N	100	N	22
H65R0090	N	7	N	<100	100	<50	N	N	150	N	22
H65R0100	N	7	N	<100	70	<50	N	N	100	N	22
H65R0120	N	7	N	<100	70	<50	N	N	100	N	22
H65R0130	N	7	N	<100	70	<50	N	N	100	N	22
H65R0150	N	10	N	<100	100	<50	N	N	100	N	22
H65R0170	N	10	N	<100	100	<50	N	N	100	N	22
H65R0190	N	15	N	<100	100	<50	N	N	100	N	22
H65R0210	N	<5	N	200	30	<50	N	N	100	N	21
H65R0230	N	5	N	<100	50	<50	N	N	50	N	21
H65R0240	N	5	N	<100	20	<50	N	N	50	N	21
H65R0260	N	<5	N	<100	20	<50	N	N	30	N	21
H65R0270	N	<5	N	<100	30	<50	N	N	200	N	21
H65R0280	N	<5	N	200	20	<50	N	N	30	N	21
H65R0300	N	<5	N	150	20	<50	N	N	50	N	21
H65R0320	N	N	N	150	20	<50	N	N	20	N	21
H65R0340	N	N	N	<100	20	<50	N	N	30	N	21
H65R0360	N	N	N	200	20	<50	N	N	50	N	21
H65R0380	N	N	N	200	30	<50	N	N	30	N	21
H65R0400	N	<5	N	<100	30	<50	N	N	100	N	21
H65R0410	N	7	N	<100	70	<50	N	N	100	N	21
H65P0440	N	<5	N	<100	20	<50	N	N	50	N	21
H65R0460	N	N	N	100	20	<50	N	N	30	N	21
H65R0480	N	7	N	200	50	<50	N	N	150	N	21
H65R0500	N	5	N	100	50	<50	N	N	100	N	21
H65R0520	N	5	N	<100	50	<50	N	N	100	N	21
H65R0540	N	<5	N	<100	30	<50	N	N	70	N	21
H65R0560	N	<5	N	300	30	<50	N	N	70	N	21
H65R0580	N	5	N	200	30	<50	N	N	100	N	21
H65R0600	N	5	N	<100	30	<50	N	N	100	N	21
H65R0620	N	<5	N	200	20	<50	N	N	100	N	21
H65R0640	N	<5	N	100	30	<50	N	N	100	N	21
H65R0660	N	5	N	<100	30	<50	N	N	100	N	20
H65R0680	N	N	N	<100	20	<50	N	N	30	N	20
H65R0700	N	<5	N	<100	30	<50	N	N	50	N	20
H65R0720	N	N	N	<100	15	<50	N	N	50	N	20
H65R0740	N	N	N	<100	15	<50	N	N	10	N	20
H65R0760	N	<5	N	<100	20	<50	N	N	100	N	20
H65R0780	N	N	N	<100	15	<50	N	N	20	N	20
H65R0800	N	N	N	<100	15	<50	N	N	30	N	20
H65R0820	N	N	N	<100	30	<50	N	N	100	N	20
H65R0840	N	<5	N	<100	20	<50	N	N	100	N	20

TABLE 2.--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ba-ppm S
H65R0860	.70	.50	1.50	.150	20	N	N	N	50	150
H65R0880	.50	.50	.30	.100	15	N	N	N	70	150
H65R0900	1.50	.70	.50	.150	30	N	N	N	70	200
H65R0920	7.00	.50	.50	.100	30	.5	1,500	N	50	100
H65R0940	.50	.15	.10	.070	15	N	N	N	50	100
H65R0955	1.00	.50	.10	.100	20	N	N	N	70	150
H65R1020	.50	.10	<.05	.100	15	N	N	N	70	200
H65R1040	.07	<.02	<.05	.010	10	N	N	N	50	100
H65R1060	.15	<.02	<.05	.010	10	N	N	N	50	100
H65R1080	.50	.02	<.05	.015	10	N	N	N	50	100
H65R1100	.15	.02	<.05	.010	10	N	N	N	15	50
H65R1120	.10	<.02	<.05	.005	10	N	N	N	15	50
H65R1140	1.00	.20	<.05	.070	20	N	N	N	100	150
H65R1170	1.00	.05	<.05	.020	30	N	N	N	50	100
H65R1200	.30	.02	<.05	.010	20	N	N	N	30	100
H65R1215	.70	.02	<.05	.020	20	N	N	N	50	70
H65R1240	1.00	.02	<.05	.015	20	N	200	N	50	100
H65R1260	2.00	.02	<.05	.015	30	1.0	200	N	50	300
H65R1275	10.00	.02	<.05	.030	30	.5	1,000	N	50	150
H65R1300	.30	.02	.05	.015	10	N	N	N	50	150
H65R1315	.50	.02	.15	.015	15	N	N	N	50	50
H65R1330	.70	.02	.05	.005	15	N	N	N	50	50
H65R1350	.07	.03	.07	.003	15	N	N	N	50	100
H65R1420	.15	<.02	.05	.010	15	N	N	N	70	50
H65R1440	.20	.02	<.05	.007	10	N	N	N	50	100
H65R1455	.20	.02	<.05	.002	10	N	N	N	50	100
H65R1470	.30	.02	<.05	.003	10	N	N	N	50	70
H65R1490	.15	<.02	<.05	.002	10	N	N	N	50	50
H65R1500	.10	<.02	<.05	.002	15	N	N	N	30	70
H65R1520	.20	.02	.05	.003	15	N	N	N	30	100

TABLE 2.--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Re-ppm S	Ri-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H65R0860	<1.0	N	N	<5	20	15	N	10	N	15	<10
H65R0880	<1.0	N	N	<5	20	10	N	20	N	15	<10
H65R0900	1.0	N	N	7	30	20	N	15	N	20	<10
H65R0920	<1.0	N	N	10	20	100	N	30	N	30	50
H65R0940	N	N	N	<5	15	10	N	10	N	10	<10
H65R0955	<1.0	N	N	<5	20	20	N	20	N	15	20
H65R1020	<1.0	N	N	<5	20	20	N	15	N	15	10
H65R1040	N	N	N	<5	10	7	N	10	N	5	<10
H65R1060	N	N	N	<5	10	<5	N	15	N	5	<10
H65R1080	N	N	N	<5	15	5	N	20	N	5	<10
H65R1100	N	N	N	10	15	15	N	5	N	5	<10
H65R1120	N	N	N	10	15	150	N	<5	N	5	<10
H65R1140	1.0	N	N	50	30	30	N	20	N	70	<10
H65R1170	N	N	N	50	70	10	N	30	N	20	10
H65R1200	N	N	N	7	15	<5	N	15	N	10	<10
H65R1215	<1.0	N	N	5	15	5	N	15	N	10	<10
H65R1240	N	N	N	5	15	10	N	30	N	15	<10
H65R1260	N	N	N	5	10	20	N	150	N	30	15
H65R1275	<1.0	N	N	5	10	30	N	100	N	30	50
H65R1300	N	N	N	<5	10	<5	N	15	N	10	<10
H65R1315	N	N	N	<5	10	5	N	15	N	10	<10
H65R1330	N	N	N	<5	10	5	N	15	N	10	<10
H65R1350	N	N	N	<5	10	<5	N	<5	N	10	<10
H65R1420	N	N	N	<5	10	<5	N	5	N	7	<10
H65R1440	N	N	N	<5	10	5	N	20	N	10	<10
H65R1455	N	N	N	<5	10	<5	N	5	N	7	<10
H65R1470	N	N	N	<5	10	<5	N	5	N	7	<10
H65R1490	N	N	N	<5	10	<5	N	<5	N	7	<10
H65R1500	N	N	N	<5	10	<5	N	<5	N	7	<10
H65R1520	N	N	N	50	10	<5	N	<5	N	10	<10

TABLE 2.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H65, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H65R0860	N	<5	N	<100	20	<50	N	N	100	N	19
H65R0880	N	<5	N	<100	20	<50	N	N	100	N	19
H65R0900	N	<5	N	<100	30	<50	N	N	100	N	19
H65R0920	N	<5	N	<100	20	<50	N	N	30	N	19
H65R0940	N	N	N	<100	20	<50	N	N	15	N	19
H65R0955	N	5	N	<100	30	<50	N	N	50	N	19
H65R1020	N	5	N	<100	20	<50	N	N	100	N	19
H65R1040	N	N	N	<100	10	<50	N	N	<10	N	19
H65R1060	N	N	N	<100	10	<50	N	N	30	N	19
H65R1080	N	N	N	<100	10	<50	N	N	20	N	19
H65R1100	N	N	N	<100	10	50	N	N	30	N	19
H65R1120	N	N	N	<100	10	50	N	N	20	N	19
H65R1140	N	5	N	<100	70	100	N	N	50	N	19
H65R1170	N	<5	N	<100	20	200	N	N	20	N	19
H65R1200	N	<5	N	<100	10	<50	N	N	50	N	19
H65R1215	N	N	N	<100	15	<50	N	N	30	N	19
H65R1240	N	N	N	<100	10	<50	N	N	<10	N	18
H65R1260	N	N	N	<100	15	<50	N	<200	50	N	18
H65R1275	N	N	N	<100	15	<50	N	N	20	N	18
H65R1300	N	N	N	<100	20	70	N	N	20	N	18
H65R1315	N	N	N	<100	20	<50	N	N	<10	N	18
H65R1330	N	N	N	<100	15	<50	N	N	N	N	18
H65R1350	N	N	N	<100	10	<50	N	N	N	N	18
H65R1420	N	N	N	<100	10	<50	N	N	N	N	18
H65R1440	N	N	N	<100	15	<50	N	N	N	N	18
H65R1455	N	N	N	<100	10	<50	N	N	N	N	18
H65R1470	N	N	N	<100	15	<50	N	N	N	N	18
H65R1490	N	N	N	<100	15	<50	N	N	N	N	18
H65R1500	N	N	N	<100	15	<50	N	N	N	N	18
H65R1520	N	N	N	<100	10	150	N	N	N	N	18

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS

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

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	P-ppm S	Ba-ppm S
H66R0140	.10	.07	1.00	.015	20	N	N	N	50	100
H66R0160	.10	.05	1.00	.015	20	N	N	N	50	100
H66R0180	.15	.30	1.50	.020	20	N	N	N	50	100
H66R0200	.50	1.00	2.00	.030	100	N	N	N	30	100
H66R0220	3.00	1.00	1.00	.100	70	N	N	N	100	200
H66R0260	2.00	.70	.30	.500	70	N	N	N	200	300
H66R0290	5.00	.50	.15	.300	50	N	N	N	200	150
H66R0310	.70	.02	.05	.030	10	N	N	N	20	50
H66R0330	.70	.07	.10	.030	10	N	N	N	20	70
H66R0350	1.00	.50	.50	.100	20	N	N	N	100	200
H66R0370	2.00	1.00	1.00	.300	50	N	N	N	200	300
H66R0400	3.00	1.50	2.00	.200	50	N	N	N	150	200
H66R0420	3.00	1.50	2.00	.300	70	N	N	N	200	200
H66R0440	2.00	1.50	2.00	.200	30	N	N	N	150	200
H66R0460	1.00	1.50	3.00	.200	50	N	N	N	150	150
H66R0480	3.00	1.00	1.00	.300	50	N	N	N	200	200
H66R0510	2.00	1.50	3.00	.200	50	N	N	N	150	200
H66R0530	5.00	1.50	1.50	.150	10	N	N	N	50	70
H66R0550	3.00	.70	.50	.100	15	N	200	N	100	100
H66R0570	2.00	.70	.30	.300	30	N	<200	N	150	200
H66R0590	1.50	.30	.15	.200	20	N	N	N	150	200
H66R0610	.50	.50	.30	.150	15	N	N	N	100	300
H66R0630	.15	.30	.30	.070	10	N	N	N	70	200
H66R0650	1.00	.50	.50	.100	10	N	N	N	100	200
H66P0670	1.00	.50	.30	.200	15	N	N	N	100	200
H66R0690	1.00	.50	.50	.150	15	N	N	N	100	200
H66R0710	.50	.10	.10	.070	10	N	N	N	50	100
H66R0730	1.50	.70	.70	.300	50	N	N	N	150	300
H66R0750	1.00	1.00	1.00	.200	30	N	N	N	100	200
H66R0770	1.00	.70	.20	.200	20	N	N	N	100	200
H66R0780	1.00	1.00	1.00	.300	50	N	N	N	100	300
H66R0790	1.00	.02	.05	.020	10	N	N	N	50	100
H66R0810	1.00	1.50	2.00	.300	50	N	N	N	100	200
H66R0830	1.50	.50	.20	.300	30	N	N	N	100	200
H66R0850	1.00	.50	.20	.200	20	N	N	N	100	150
H66R0870	.70	.70	.70	.200	20	N	N	N	100	300
H66R0890	.70	.50	.30	.150	15	N	N	N	100	200
H66R0910	1.50	2.00	3.00	.300	50	N	N	N	100	200
H66R0930	1.00	.50	.20	.150	20	.7	N	N	100	200
H66R0950	.50	.30	.30	.100	15	N	N	N	70	200
H66R0980	1.50	.30	.20	.200	20	N	N	N	70	200
H66R1000	.50	.20	.20	.050	10	N	N	N	30	200
H66R1020	1.50	1.00	.50	.150	10	N	N	N	150	200
H66R1040	.20	.10	.20	.050	10	N	N	N	50	100
H66P1060	.50	.50	1.00	.200	15	N	<200	N	100	150

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H66R0140	N	N	N	<5	15	<5	N	N	N	15	<10
H66R0160	N	N	N	5	15	<5	N	N	N	15	<10
H66R0180	N	N	N	<5	15	<5	N	<5	N	10	<10
H66R0200	1.0	N	N	5	10	<5	N	<5	N	70	<10
H66R0220	1.5	N	N	15	20	7	N	N	N	150	<10
H66R0260	2.0	N	N	15	100	10	N	N	<20	150	<10
H66R0290	N	N	N	15	100	100	30	<5	N	100	<10
H66R0310	N	N	N	<5	<10	5	N	5	N	5	<10
H66R0330	<1.0	N	N	<5	15	7	N	5	N	7	<10
H66R0350	2.0	N	N	7	20	15	N	10	N	15	20
H66R0370	1.5	N	N	10	100	30	<20	10	N	50	50
H66R0400	1.5	N	N	10	50	50	<20	15	N	50	70
H66R0420	1.0	N	N	15	70	50	30	15	N	50	100
H66R0440	1.0	N	N	10	50	30	<20	15	N	50	150
H66R0460	1.5	N	N	7	30	50	N	10	N	20	30
H66R0480	1.5	N	N	7	50	70	N	10	N	30	70
H66R0510	1.0	N	N	7	50	50	N	30	N	30	100
H66R0530	<1.0	N	N	<5	<10	30	N	<5	N	7	15
H66R0550	<1.0	N	N	<5	20	50	N	20	N	10	50
H66R0570	1.5	N	N	20	70	150	N	50	N	50	100
H66R0590	1.0	N	N	15	30	100	N	30	N	50	100
H66R0610	<1.0	N	N	5	20	15	N	15	N	10	<10
H66R0630	<1.0	N	N	<5	15	5	N	7	N	7	<10
H66R0650	<1.0	N	N	5	20	15	N	15	N	15	20
H66R0670	<1.0	N	N	7	20	20	N	20	N	20	20
H66R0690	<1.0	N	N	5	20	30	N	15	N	15	30
H66R0710	N	N	N	<5	15	200	N	5	N	10	<10
H66R0730	1.5	N	N	10	50	50	N	30	N	30	150
H66R0750	<1.0	N	N	5	50	20	N	15	N	15	100
H66R0770	1.0	N	N	5	50	15	N	20	N	15	10
H66R0780	1.0	N	N	5	50	50	N	20	N	20	100
H66R0790	N	N	N	5	10	7	N	7	N	10	<10
H66R0810	1.0	N	N	5	50	20	N	30	N	20	70
H66R0830	<1.0	N	N	7	70	50	N	30	N	30	70
H66R0850	<1.0	N	N	5	50	15	N	20	N	15	50
H66R0870	<1.0	N	N	<5	50	10	N	20	N	10	50
H66R0890	<1.0	N	N	<5	30	10	N	50	N	10	70
H66R0910	1.0	N	N	7	50	30	N	50	N	20	100
H66R0930	1.0	N	N	<5	50	15	N	10	N	10	50
H66R0950	<1.0	N	N	5	20	10	N	5	N	10	<10
H66R0980	<1.0	N	N	5	30	30	N	10	N	20	20
H66R1000	N	N	N	<5	15	5	N	7	N	7	<10
H66R1020	<1.0	N	N	<5	20	10	N	30	N	15	15
H66R1040	N	N	N	5	15	7	N	5	N	7	<10
H66R1060	<1.0	N	N	5	50	15	N	15	N	15	20

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H66R0140	N	N	N	<100	15	<50	N	N	<10	N	31
H66R0160	N	N	N	<100	15	<50	N	N	<10	N	31
H66R0180	N	<5	N	<100	20	<50	<10	<200	<10	N	31
H66R0200	N	<5	N	<100	20	<50	<10	N	<10	N	31
H66R0220	N	7	N	<100	50	<50	<10	N	50	N	31
H66R0260	N	10	N	<100	70	<50	20	N	500	N	31
H66R0290	N	10	N	<100	200	<50	15	N	150	N	31
H66R0310	N	N	N	<100	10	<50	N	N	20	N	23
H66R0330	N	N	N	<100	30	<50	N	N	70	N	23
H66R0350	N	<5	N	<100	50	<50	N	N	50	N	23
H66R0370	N	7	N	<100	70	<50	N	N	100	N	22
H66R0400	N	7	N	<100	70	<50	N	N	100	N	22
H66R0420	N	10	N	<100	100	<50	N	N	150	N	22
H66R0440	N	5	N	<100	50	<50	N	N	100	N	22
H66R0460	N	5	N	<100	70	<50	<10	N	100	N	22
H66R0480	N	10	N	<100	70	<50	<10	N	100	N	22
H66R0510	N	7	N	<100	50	<50	N	N	100	N	22
H66R0530	N	N	N	<100	20	<50	N	700	15	N	22
H66R0550	N	<5	N	<100	50	<50	N	1,500	30	N	22
H66R0570	N	5	N	100	70	<50	N	200	100	N	22
H66R0590	N	<5	N	100	50	<50	N	<200	100	N	22
H66R0610	N	<5	N	300	50	<50	N	200	50	N	39
H66R0630	N	<5	N	150	20	<50	N	<200	30	N	39
H66R0650	N	<5	N	200	50	<50	N	700	70	N	39
H66R0670	N	<5	N	<100	30	<50	N	N	70	N	39
H66R0690	N	<5	N	<100	20	<50	N	700	50	N	39
H66R0710	N	N	N	N	15	<50	N	N	50	N	39
H66R0730	N	5	N	N	50	<50	N	N	100	N	39
H66R0750	N	5	N	<100	50	<50	N	N	100	N	39
H66R0770	N	5	N	200	50	<50	N	200	100	N	39
H66R0780	N	5	N	<100	50	<50	N	N	100	N	39
H66R0790	N	<5	N	200	10	<50	N	2,000	50	N	39
H66R0810	N	5	N	<100	70	<50	N	<200	100	N	39
H66R0830	N	5	N	<100	50	<50	N	N	100	N	39
H66R0850	N	<5	N	<100	50	<50	N	N	50	N	39
H66R0870	N	5	N	<100	50	<50	N	N	150	N	39
H66R0890	N	<5	N	<100	50	<50	N	200	100	N	39
H66R0910	N	5	N	<100	50	<50	N	<200	100	N	39
H66R0930	N	5	N	<100	30	<50	N	1,000	50	N	39
H66R0950	N	<5	N	<100	20	<50	N	N	50	N	39
H66R0990	N	5	N	<100	50	<50	N	1,000	100	N	39
H66R1000	N	N	N	<100	10	<50	N	1,000	50	N	39
H66R1020	N	N	N	<100	50	<50	N	<200	100	N	39
H66R1040	N	N	N	<100	10	<50	N	<200	50	N	39
H66R1060	N	<5	N	<100	30	<50	N	200	50	N	39

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ra-ppm S
H66R1080	2.00	.70	1.00	.500	50	N	N	N	200	500
H66R1100	.50	1.00	1.00	.150	20	N	N	N	100	150
H66R1120	.50	.70	.70	.100	20	N	N	N	70	200
H66R1140	.50	.70	1.00	.150	15	N	N	N	70	150
H66R1160	1.00	.70	1.00	.200	20	N	N	N	100	150
H66R1180	1.00	.30	.15	.150	15	N	N	N	70	150
H66R1200	1.00	.50	.20	.200	15	N	N	N	100	200
H66R1220	.50	.30	.15	.100	15	<.5	N	N	70	150
H66R1240	.30	.20	.15	.070	15	N	N	N	50	100
H66R1260	.50	.50	.30	.150	15	N	N	N	100	150
H66R1280	.70	.50	.20	.150	15	N	N	N	50	150
H66R1300	.10	.07	.10	.020	10	N	N	N	30	150
H66R1320	.10	.05	.05	.020	10	N	N	N	50	100
H66R1340	.15	.03	.05	.010	10	N	N	N	100	70
H66R1360	.30	.05	.05	.030	10	N	N	N	50	70
H66R1390	<.05	<.02	<.05	.007	10	N	N	N	30	100
H66R1410	.70	.15	.05	.100	15	N	N	N	70	150
H66R1430	.50	.15	.05	.070	10	N	N	N	50	100
H66R1450	.20	.10	<.05	.050	10	N	N	N	20	70
H66P1470	.05	<.02	<.05	.010	10	N	N	N	10	50
H66R1490	.30	.05	<.05	.070	15	N	N	N	50	70
H66R1510	.30	.05	.05	.020	15	N	N	N	70	100
H66R1530	.20	.05	<.05	.030	15	N	N	N	50	70
H66R1550	.50	.10	.05	.050	10	N	N	N	70	100
H66R1580	1.00	.30	.05	.100	15	N	N	N	70	100
H66R1600	.50	.03	.05	.050	10	N	N	N	30	30
H66R1620	.07	.03	<.05	.010	10	N	N	N	30	20
H66R1640	.20	.03	.05	.005	10	N	N	N	50	50
H66R1660	.30	.02	<.05	.015	10	N	N	N	50	50
H66R1680	.15	.03	.05	.010	10	N	N	N	50	50
H66R1700	.20	.03	.07	.005	10	N	N	N	50	50
H66P1725	.20	.02	<.05	.010	10	N	N	N	50	30

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Re-ppm S	Ri-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H66R1080	1.5	N	N	10	100	50	N	50	N	50	150
H66R1100	<1.0	N	N	5	30	10	N	20	N	10	20
H66R1120	<1.0	N	N	5	20	10	N	20	N	10	15
H66R1140	<1.0	N	N	5	20	10	N	15	N	10	50
H66R1160	<1.0	N	N	7	30	15	N	30	N	15	20
H66R1180	<1.0	N	N	5	20	10	N	15	N	10	10
H66R1200	<1.0	N	N	5	20	15	N	15	N	10	20
H66R1220	<1.0	N	N	<5	15	7	N	7	N	10	<10
H66R1240	<1.0	N	N	5	10	7	N	7	N	10	10
H66R1260	<1.0	N	N	<5	15	7	N	10	N	15	10
H66R1280	<1.0	N	N	5	15	7	N	7	N	10	<10
H66R1300	<1.0	N	N	<5	10	<5	N	5	N	7	<10
H66R1320	N	N	N	5	15	<5	N	<5	N	7	<10
H66R1340	N	N	N	5	15	<5	N	7	N	7	<10
H66R1360	N	N	N	5	15	7	N	5	N	10	<10
H66R1390	N	N	N	5	15	<5	N	<5	N	7	<10
H66R1410	<1.0	N	N	<5	15	7	N	15	N	10	<10
H66R1430	N	N	N	5	15	7	N	15	N	15	<10
H66R1450	N	N	N	<5	15	<5	N	10	N	15	<10
H66R1470	N	N	N	<5	150	<5	N	<5	N	10	<10
H66R1490	N	N	N	<5	15	5	N	20	N	15	<10
H66R1510	N	N	N	15	150	5	N	15	N	15	<10
H66R1530	N	N	N	<5	150	5	N	10	N	10	<10
H66R1550	<1.0	N	N	5	150	10	N	20	N	15	10
H66R1580	<1.0	N	N	5	20	15	N	30	N	15	30
H66R1600	N	N	N	<5	15	5	N	20	N	7	<10
H66R1620	N	N	N	<5	10	<5	N	10	N	7	<10
H66R1640	N	N	N	<5	15	<5	N	15	N	7	<10
H66R1660	N	N	N	<5	15	<5	N	7	N	5	<10
H66R1680	N	N	N	<5	15	<5	N	20	N	7	<10
H66R1700	N	N	N	<5	15	<5	N	20	N	7	<10
H66R1725	N	N	N	<5	15	<5	N	15	N	7	<10

TABLE 3.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H66, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H66R1080	N	7	N	<100	70	<50	N	<200	150	N	39
H66R1100	N	<5	N	<100	30	<50	N	300	50	N	39
H66R1120	N	<5	N	<100	30	<50	N	N	70	N	39
H66R1140	N	5	N	<100	30	<50	N	N	70	N	39
H66R1160	N	5	N	<100	50	<50	N	N	70	N	39
H66R1180	N	5	N	<100	20	<50	N	200	70	N	39
H66R1200	N	5	N	<100	30	<50	N	N	70	N	39
H66R1220	N	<5	N	<100	20	<50	N	200	50	N	39
H66R1240	N	N	N	<100	20	<50	N	300	50	N	39
H66R1260	N	<5	N	<100	30	<50	N	N	50	N	39
H66R1280	N	<5	N	<100	20	<50	N	N	70	N	39
H66R1300	N	N	N	<100	15	<50	N	<200	<10	N	19
H66R1320	N	N	N	<100	15	<50	N	200	30	N	19
H66R1340	N	N	N	<100	10	<50	N	300	10	N	19
H66R1360	N	N	N	<100	20	<50	N	200	20	N	19
H66R1390	N	N	N	<100	10	<50	N	N	20	N	19
H66R1410	N	N	N	<100	30	<50	N	N	50	N	19
H66R1430	N	N	N	<100	30	<50	N	N	50	N	19
H66R1450	N	N	N	<100	30	<50	N	N	30	N	19
H66R1470	N	N	N	<100	10	<50	N	N	50	N	19
H66R1490	N	N	N	<100	15	<50	N	N	50	N	19
H66R1510	N	N	N	<100	15	<50	N	N	50	N	19
H66R1530	N	N	N	<100	20	<50	N	N	50	N	19
H66R1550	N	N	N	<100	20	<50	N	<200	50	N	18
H66R1580	N	N	N	<100	30	<50	N	700	50	N	18
H66R1600	N	N	N	<100	10	<50	N	N	N	N	18
H66R1620	N	N	N	<100	10	<50	N	N	N	N	18
H66R1640	N	N	N	<100	15	<50	N	N	N	N	18
H66R1660	N	N	N	<100	15	<50	N	N	N	N	18
H66R1680	N	N	N	<100	15	<50	N	N	N	N	18
H66R1700	N	N	N	<100	10	<50	N	200	<10	N	18
H66R1725	N	N	N	<100	15	<50	N	N	<10	N	18

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS

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

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ra-ppm S
H67R0028	.30	.15	1.50	.020	100	N	N	N	70	150
H67R0042	5.00	3.00	1.00	>1.000	100	N	N	N	300	300
H67R0052	5.00	5.00	.10	1.000	100	N	N	N	300	300
H67R0062	3.00	3.00	.10	1.000	100	N	N	N	500	300
H67R0066	3.00	5.00	.05	>1.000	100	N	N	N	300	300
H67R0069	.50	.10	<.05	.070	10	N	N	N	50	100
H67R0071	.50	.15	<.05	.050	20	N	N	N	30	100
H67R0081	7.00	.15	.05	.050	15	N	N	N	20	30
H67R0091	.15	.20	<.05	.070	<10	N	N	N	50	50
H67R0101	<.05	.07	<.05	.020	<10	N	N	N	150	20
H67R0110	.30	.10	<.05	.070	<10	N	N	N	30	100
H67R0120	.70	.30	<.05	.070	15	N	N	N	70	50
H67R0130	.30	.10	<.05	.050	<10	N	N	N	20	50
H67R0139	1.00	.20	.05	.070	15	N	N	N	50	100
H67R0148	.05	.05	<.05	.010	<10	N	N	N	20	50
H67R0158	.20	.07	<.05	.020	<10	N	N	N	20	70
H67R0168	.30	.05	<.05	.050	<10	N	N	N	20	50
H67R0176	1.50	.30	.15	.300	20	N	N	N	100	200
H67R0186	1.50	1.50	<.05	1.000	30	N	N	N	200	300
H67R0196	.10	.07	<.05	.050	<10	N	N	N	20	50
H67R0206	<.05	.03	<.05	.015	<10	N	N	N	20	N
H67R0215	.50	.10	<.05	.100	10	N	N	N	50	50
H67R0226	<.05	.03	<.05	.015	<10	N	N	N	20	N
H67R0236	.20	.02	<.05	.010	<10	N	N	N	30	N
H67R0245	.20	.10	<.05	.070	<10	N	N	N	50	70
H67R0254	.20	.10	<.05	.070	<10	N	N	N	50	100
H67R0264	.50	.10	.30	.050	<10	N	N	N	70	70
H67R0273	.10	.05	<.05	.030	<10	N	N	N	<10	20
H67R0282	2.00	.30	.05	.070	<10	N	<200	N	100	100
H67R0292	<.05	.03	<.05	.010	<10	N	N	N	30	50
H67R0302	.15	.05	.05	.005	<10	N	N	N	20	<20
H67R0312	.50	.30	<.05	.100	<10	N	N	N	100	150
H67R0321	1.00	.10	.07	.030	<10	N	N	N	30	100
H67R0330	5.00	1.00	<.05	.300	15	N	N	N	150	200
H67R0340	.30	.15	.15	.020	<10	N	N	N	50	70
H67R0349	10.00	.10	<.05	.100	10	.7	700	N	50	150
H67R0358	1.00	1.00	.05	.300	10	N	N	N	150	200
H67R0368	.07	.05	<.05	.020	<10	N	N	N	20	20
H67R0377	.30	.50	<.05	.070	<10	N	N	N	50	20
H67R0379	2.00	1.00	<.05	.150	10	N	N	N	100	150
H67R0387	5.00	1.50	<.05	.700	50	N	N	N	150	200
H67R0396	5.00	1.00	.05	.500	70	N	N	N	100	300
H67R0406	.50	.50	<.05	.100	<10	N	N	N	50	150
H67R0416	1.00	2.00	.10	1.000	50	N	N	N	150	200
H67R0425	.70	.50	<.05	.150	<10	N	N	N	100	150

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Re-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H67R0028	<1.0	N	N	<5	20	5	N	N	N	15	N
H67R0042	2.0	N	N	50	150	10	50	N	20	150	15
H67R0052	2.0	N	N	30	150	30	50	N	<20	150	15
H67R0062	1.5	N	N	20	150	15	70	N	20	150	15
H67R0066	2.0	N	N	20	200	20	70	N	30	100	20
H67R0069	<1.0	N	N	<5	20	10	N	N	N	15	N
H67R0071	<1.0	N	N	<5	20	5	N	N	N	10	N
H67R0081	<1.0	N	N	<5	15	15	N	N	N	30	10
H67R0091	<1.0	N	N	<5	15	<5	N	N	N	15	N
H67R0101	<1.0	N	N	<5	15	<5	N	N	N	10	N
H67R0110	<1.0	N	N	<5	15	30	N	N	N	15	N
H67R0120	1.5	N	N	<5	15	5	N	N	N	15	N
H67R0130	<1.0	N	N	<5	15	7	N	N	N	15	N
H67R0139	1.0	N	N	5	30	50	N	N	N	15	10
H67R0148	N	N	N	<5	15	<5	N	N	N	10	N
H67R0158	N	N	N	<5	15	5	N	N	N	10	N
H67R0168	N	N	N	<5	15	7	N	N	N	10	N
H67R0176	1.0	N	N	10	50	50	N	N	N	50	15
H67R0186	2.0	N	N	5	100	15	N	N	N	30	20
H67R0196	<1.0	N	N	<5	20	<5	N	N	N	10	N
H67R0206	N	N	N	<5	<10	N	N	N	N	5	N
H67R0215	1.0	N	N	<5	20	10	N	N	N	15	N
H67R0226	N	N	N	<5	10	<5	N	N	N	5	N
H67R0236	N	N	N	<5	<10	5	N	N	N	7	N
H67R0245	<1.0	N	N	<5	10	<5	N	N	N	10	N
H67R0254	<1.0	N	N	<5	10	5	N	N	N	7	N
H67R0264	<1.0	N	N	<5	15	10	N	N	N	7	N
H67R0273	N	N	N	<5	15	<5	N	N	N	5	N
H67R0282	1.0	N	N	<5	20	15	N	5	N	20	N
H67R0292	N	N	N	<5	<10	7	N	N	N	<5	N
H67R0302	N	N	N	<5	<10	5	N	N	N	5	N
H67R0312	1.0	N	N	<5	20	5	N	N	N	15	N
H67R0321	N	N	N	<5	<10	5	N	<5	N	15	N
H67R0330	1.0	N	N	15	50	50	N	7	N	100	50
H67R0340	N	N	N	<5	<10	5	N	N	N	7	N
H67R0349	N	N	N	5	20	300	N	50	N	50	10
H67R0358	1.0	N	20	<5	50	10	N	N	N	10	<10
H67R0368	N	N	N	N	<10	<5	N	N	N	5	N
H67R0377	<1.0	N	N	<5	15	5	N	N	N	7	N
H67R0379	2.0	N	N	5	70	10	N	N	N	20	<10
H67R0387	2.0	N	N	7	150	15	N	5	N	20	20
H67R0396	1.5	N	N	7	70	1,000	N	15	N	50	30
H67R0406	<1.0	N	N	<5	30	7	N	N	N	5	<10
H67R0416	1.0	N	N	5	100	15	N	5	N	20	15
H67R0425	<1.0	N	N	<5	30	15	N	5	N	10	<10

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H67R0028	N	N	N	<100	10	<50	N	N	N	N	31
H67R0042	N	15	N	<100	150	<50	20	N	200	N	31
H67R0052	N	20	N	<100	200	<50	20	N	150	N	31
H67R0062	N	20	N	<100	200	<50	20	N	200	N	31
H67R0066	N	20	N	<100	200	<50	20	N	200	N	31
H67R0069	N	N	N	<100	100	<50	N	N	70	N	31
H67R0071	N	N	N	<100	50	<50	N	N	100	N	23
H67R0081	N	N	N	<100	30	<50	N	N	20	N	23
H67R0091	N	N	N	<100	50	<50	N	N	50	N	23
H67R0101	N	N	N	<100	<10	<50	N	N	20	N	23
H67R0110	N	N	N	<100	50	<50	N	N	100	N	23
H67R0120	N	N	N	<100	50	<50	N	N	50	N	23
H67R0130	N	N	N	<100	30	<50	N	N	100	N	23
H67R0139	N	N	N	<100	50	<50	N	300	300	N	23
H67R0148	N	N	N	<100	<10	<50	N	N	15	N	23
H67R0158	N	N	N	<100	10	<50	N	N	150	N	23
H67R0168	N	N	N	<100	10	<50	N	N	100	N	23
H67R0176	N	<5	N	<100	100	<50	N	N	500	N	23
H67R0186	N	7	N	<100	150	<50	N	N	500	N	23
H67R0196	N	N	N	<100	<10	<50	N	N	100	N	23
H67R0206	N	N	N	<100	<10	<50	N	N	50	N	23
H67R0215	N	N	N	<100	100	<50	N	N	500	N	23
H67R0226	N	N	N	<100	<10	<50	N	N	30	N	23
H67R0236	N	N	N	<100	<10	<50	N	N	20	N	23
H67R0245	N	5	N	<100	50	<50	N	N	100	N	23
H67R0254	N	N	N	<100	50	<50	N	N	100	N	23
H67R0264	N	N	N	<100	50	<50	N	N	100	N	23
H67R0273	N	N	N	<100	10	<50	N	N	50	N	23
H67R0282	N	N	N	<100	50	<50	N	N	100	N	23
H67R0292	N	N	N	<100	<10	<50	N	N	N	N	23
H67R0302	N	N	N	<100	<10	<50	N	N	N	N	23
H67R0312	N	<5	N	<100	70	<50	N	N	100	N	23
H67R0321	N	N	N	<100	10	<50	N	N	30	N	23
H67R0330	N	5	N	<100	150	<50	N	N	300	N	23
H67R0340	N	N	N	<100	<10	<50	N	N	20	N	23
H67R0349	N	<5	N	<100	30	<50	N	N	500	N	23
H67R0358	N	5	N	<100	<10	<50	N	7,000	500	N	23
H67R0368	N	N	N	<100	150	<50	N	N	50	N	23
H67R0377	N	N	N	<100	50	<50	N	N	50	N	23
H67R0379	N	5	N	<100	100	<50	N	N	100	N	23
H67R0387	N	7	N	<100	150	<50	N	N	300	N	22
H67R0396	N	5	N	<100	100	<50	N	N	500	N	22
H67R0406	N	<5	N	<100	50	<50	N	N	200	N	22
H67R0416	N	10	N	<100	100	<50	N	N	100	N	22
H67R0425	N	<5	N	<100	30	<50	N	N	30	N	22

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Al-ppm S	As-ppm S	Au-ppm S	B-ppm S	Pb-ppm S
H67R0435	.70	.10	<.05	.200	<10	N	N	N	100	100
H67R0440	1.50	2.00	<.05	1.000	50	N	N	N	200	300
H67R0453	2.00	3.00	.20	1.000	50	N	N	N	150	300
H67R0462	1.00	2.00	.05	.200	20	N	N	N	100	200
H67R0466	.70	2.00	<.05	1.000	20	N	N	N	200	200
H67R0471	.20	.15	.10	.020	<10	N	N	N	100	50
H67R0480	3.00	1.00	.10	.700	20	N	N	N	150	200
H67R0490	1.00	2.00	<.05	.700	50	N	N	N	200	300
H67R0500	1.50	2.00	<.05	.700	50	N	N	N	200	300
H67R0510	1.00	1.50	<.05	.300	30	N	N	N	150	200
H67R0518	2.00	2.00	<.05	.500	50	N	N	N	200	300
H67R0528	2.00	3.00	.07	1.000	50	N	N	N	200	300
H67R0538	2.00	2.00	.10	.500	30	N	N	N	200	300
H67R0548	1.00	1.00	.10	.300	20	N	N	N	150	200
H67R0557	2.00	2.00	.15	.500	50	N	N	N	200	300
H67R0567	3.00	2.00	<.05	1.000	50	N	N	N	200	300
H67R0576	2.00	1.00	.05	.300	20	N	N	N	200	150
H67R0586	3.00	1.50	<.05	.500	20	N	N	N	200	300
H67R0595	3.00	1.00	<.05	1.000	30	N	N	N	200	200
H67R0605	2.00	1.00	.07	.500	20	N	N	N	150	150
H67R0615	5.00	2.00	<.05	.500	50	N	N	N	150	300
H67R0624	5.00	3.00	<.05	1.000	20	N	N	N	150	300
H67R0634	10.00	2.00	.05	>1.000	20	<.5	N	N	150	300
H67R0644	5.00	1.50	.05	1.000	15	N	N	N	150	200
H67R0653	10.00	.20	.05	.100	<10	N	N	N	50	100
H67R0662	7.00	2.00	<.05	.500	20	N	N	N	200	200
H67R0672	.50	.30	<.05	.070	<10	N	N	N	100	100
H67R0682	.70	.50	.05	.100	<10	N	N	N	100	100
H67R0691	.10	.10	<.05	.020	<10	N	N	N	50	50
H67R0701	.15	.07	.10	.010	<10	N	N	N	150	200
H67R0710	.15	.07	.10	.050	<10	N	N	N	70	100
H67R0719	.70	.70	<.05	.300	<10	N	N	N	150	200
H67R0729	<.05	.02	<.05	.002	<10	N	N	N	150	N
H67R0739	2.00	1.00	.15	.200	<10	N	N	N	100	200
H67R0748	1.00	.70	.05	.100	<10	N	N	N	100	100
H67R0758	.50	.70	<.05	.100	<10	N	N	N	100	100
H67R0768	.05	.07	.10	.010	<10	N	N	N	70	20
H67R0777	2.00	1.00	.07	.300	15	N	N	N	150	150
H67R0786	.10	.15	.10	.050	<10	N	N	N	100	100
H67R0796	5.00	1.00	.05	.700	10	N	N	N	100	200
H67R0805	5.00	1.50	.05	.700	50	<.5	N	N	150	200
H67R0815	.50	.20	.10	.050	15	N	N	N	100	70
H67R0824	.07	.20	.07	.020	<10	N	N	N	30	100
H67R0834	2.00	2.00	<.05	.500	50	N	N	N	200	200
H67P0844	2.00	2.00	.05	.700	30	N	N	N	150	200

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H67R0435	N	N	N	<5	50	150	N	7	N	10	N
H67R0440	1.0	N	N	20	150	30	50	15	N	50	30
H67R0453	1.0	N	N	20	150	50	N	10	N	70	30
H67R0462	<1.0	N	N	15	100	20	N	<5	N	20	15
H67R0466	1.0	N	N	<5	150	50	N	<5	N	15	15
H67R0471	N	N	N	<5	<10	<5	N	<5	N	5	N
H67R0480	1.0	N	N	<5	100	2,000	N	<5	N	15	20
H67R0490	1.0	N	N	10	100	20	30	7	N	20	20
H67R0500	1.0	N	N	15	150	30	50	10	N	50	30
H67R0510	1.5	N	N	7	100	15	N	5	N	20	N
H67R0518	1.0	N	N	10	150	30	70	7	N	50	30
H67R0528	1.0	N	N	15	200	30	50	10	N	50	20
H67R0538	1.5	N	N	15	100	100	50	5	N	50	20
H67R0548	<1.0	N	N	N	30	20	N	<5	N	10	15
H67R0557	1.0	N	N	20	150	50	50	5	N	70	70
H67R0567	1.0	N	N	15	150	50	N	5	<20	50	20
H67R0576	1.0	N	N	7	70	20	N	5	N	20	<10
H67R0586	1.5	N	N	10	100	30	N	7	N	50	20
H67R0595	1.5	N	N	15	150	70	N	30	N	70	70
H67R0605	1.5	N	N	10	100	50	N	20	N	30	<10
H67R0615	1.5	N	N	20	150	70	N	20	N	50	30
H67R0624	1.5	N	N	15	150	70	N	<5	N	50	50
H67R0634	1.0	N	N	20	150	70	N	10	N	100	70
H67R0644	1.0	N	N	5	150	10	N	5	N	20	20
H67R0653	N	N	N	<5	15	20	N	<5	N	10	10
H67R0662	2.0	N	N	5	100	15	N	N	N	20	10
H67R0672	<1.0	N	N	<5	<10	<5	N	N	N	5	N
H67R0682	<1.0	N	N	<5	15	<5	N	N	N	7	N
H67R0691	N	N	N	<5	<10	<5	N	N	N	5	N
H67R0701	N	N	N	<5	<10	5	N	N	N	5	N
H67R0710	N	N	N	<5	<10	<5	N	N	N	5	N
H67R0719	1.0	N	N	<5	50	5	N	N	N	7	N
H67R0729	N	N	N	<5	<10	<5	N	N	N	5	N
H67R0739	<1.0	N	N	<5	20	7	N	<5	N	10	10
H67R0748	1.0	N	N	5	20	20	N	5	N	10	<10
H67R0758	1.0	N	N	<5	50	7	N	N	N	7	N
H67R0768	N	N	N	<5	<10	10	N	N	N	5	N
H67R0777	1.5	N	N	5	100	20	N	7	N	50	30
H67R0786	N	N	N	N	15	<5	N	N	N	5	N
H67R0796	1.0	N	N	5	100	50	N	5	<20	30	100
H67R0805	2.0	N	N	20	150	100	N	30	N	70	70
H67R0815	N	N	N	<5	10	7	N	5	N	7	<10
H67R0824	N	N	N	<5	<10	N	N	<5	N	5	N
H67R0834	1.5	N	N	15	100	15	N	15	N	50	30
H67R0844	1.0	N	N	5	150	7	N	<5	<20	30	<10

TABLE 4.--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H67R0435	N	N	N	<100	20	<50	N	N	150	N	22
H67R0440	N	10	N	<100	150	<50	<10	N	200	N	22
H67R0453	N	10	N	<100	100	<50	10	N	100	N	22
H67R0462	N	7	N	<100	50	<50	N	N	30	N	22
H67R0466	N	7	N	<100	100	<50	N	N	100	N	22
H67R0471	N	N	N	<100	<10	<50	N	N	<10	N	22
H67R0480	N	5	N	<100	100	<50	N	N	100	N	21
H67R0490	N	7	N	<100	100	<50	N	N	150	N	21
H67R0500	N	10	N	<100	100	<50	N	N	70	N	21
H67R0510	N	<5	N	<100	70	<50	N	N	100	N	21
H67R0518	N	10	N	<100	50	<50	N	N	100	N	21
H67R0528	N	10	N	<100	100	<50	N	N	100	N	21
H67R0538	N	7	N	<100	100	<50	N	N	150	N	21
H67R0548	N	5	N	<100	70	<50	N	N	150	N	21
H67R0557	N	10	N	<100	100	<50	N	N	70	N	21
H67R0567	N	7	N	<100	100	<50	10	N	200	N	21
H67R0576	N	5	N	<100	100	<50	N	N	100	N	21
H67R0586	N	10	N	<100	100	<50	N	N	100	N	21
H67R0595	N	7	N	<100	100	<50	N	N	100	N	21
H67R0605	N	5	N	<100	100	<50	N	N	70	N	21
H67R0615	N	7	N	<100	100	<50	N	N	50	N	21
H67R0624	N	10	N	<100	150	<50	N	N	100	N	21
H67R0634	N	10	N	<100	150	<50	10	N	200	N	21
H67R0644	N	10	N	<100	150	<50	N	N	100	N	21
H67R0653	N	<5	N	<100	30	<50	N	N	30	N	21
H67R0662	N	7	N	<100	150	<50	N	N	50	N	21
H67R0672	N	<5	N	300	50	<50	N	<200	20	N	21
H67R0682	N	<5	N	<100	100	<50	N	N	50	N	21
H67R0691	N	N	N	<100	20	<50	N	N	N	N	21
H67R0701	N	N	N	200	10	<50	N	N	N	N	21
H67R0710	N	N	N	200	10	<50	N	N	N	N	21
H67R0719	N	N	N	<100	100	<50	N	N	50	N	21
H67R0729	N	N	N	<100	<10	<50	N	N	N	N	21
H67R0739	N	<5	N	<100	70	<50	N	N	50	N	21
H67R0748	N	<5	N	<100	50	<50	N	N	30	N	21
H67R0758	N	<5	N	<100	70	N	N	N	30	N	21
H67R0768	N	N	N	<100	<10	N	N	N	N	N	21
H67R0777	N	10	N	<100	100	N	N	N	100	N	21
H67R0786	N	N	N	<100	15	N	N	<200	<10	N	21
H67R0796	N	7	N	<100	100	N	10	N	100	N	21
H67R0805	N	10	N	<100	200	N	N	N	100	N	21
H67R0815	N	N	N	<100	15	N	N	N	20	N	21
H67R0824	N	N	N	<100	<10	N	N	N	50	N	20
H67R0834	N	7	N	<100	70	N	N	N	100	N	20
H67R0844	N	7	N	<100	100	N	N	N	100	N	20

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-ppt. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ra-ppm S
H67R0854	1.50	1.50	<.05	.700	30	N	N	N	150	200
H67R0863	.15	.30	.05	.030	<10	N	N	N	100	150
H67R0873	.70	.70	.15	.070	<10	N	N	N	50	150
H67R0882	.30	.70	.05	.050	<10	N	N	N	30	70
H67R0893	2.00	3.00	.10	.700	50	N	N	N	100	200
H67R0902	.50	.70	.05	.020	<10	N	N	N	50	20
H67R0911	1.50	2.00	<.05	.700	30	N	N	N	150	200
H67R0921	1.50	2.00	.05	.500	30	N	N	N	150	200
H67R0931	.10	.30	.50	.015	<10	N	N	N	50	N
H67R0941	2.00	2.00	.05	.300	50	N	N	N	150	300
H67R0950	3.00	1.00	.05	.700	50	N	N	N	200	200
H67R0959	2.00	1.50	.10	.200	30	N	N	N	100	200
H67R0969	5.00	5.00	.50	1.000	50	N	N	N	100	300
H67R0979	1.00	1.00	<.05	.200	15	N	N	N	70	150
H67R0989	1.50	1.50	<.05	.500	20	N	N	N	150	150
H67R0999	.20	.50	.15	.050	<10	N	N	N	50	200
H67R1008	5.00	2.00	.10	1.000	50	N	N	N	150	500
H67R1018	5.00	1.50	<.05	.200	10	N	N	N	100	100
H67R1027	2.00	.07	.05	.050	<10	N	N	N	50	100
H67R1037	10.00	.20	.20	.020	<10	N	200	N	70	20
H67R1047	7.00	.05	.05	.015	<10	N	N	N	50	20
H67R1056	5.00	2.00	.07	1.000	10	N	N	N	150	200
H67R1066	.70	.05	.05	.003	<10	N	N	N	100	70
H67R1076	5.00	2.00	<.05	1.000	70	.5	N	N	100	300
H67R1085	2.00	1.00	.10	.200	10	N	N	N	100	100
H67R1095	5.00	2.00	.05	.500	70	N	N	N	150	200
H67R1104	10.00	2.00	<.05	>1.000	100	.5	N	N	150	300
H67R1114	7.00	2.00	<.05	1.000	100	N	N	N	150	300
H67R1123	7.00	3.00	.10	1.000	100	.5	N	N	150	300
H67R1133	2.00	1.00	.07	.300	30	<.5	N	N	150	200
H67R1143	5.00	1.00	.07	.500	50	.5	N	N	100	300
H67R1152	5.00	2.00	<.05	.700	70	1.5	N	N	200	500
H67R1161	7.00	2.00	<.05	.700	100	N	N	N	150	500
H67R1171	.30	.10	.05	.050	<10	N	N	N	50	200
H67R1182	.50	.20	.05	.070	30	N	N	N	100	150
H67R1191	.20	.15	<.05	.050	10	N	N	N	50	100
H67R1200	3.00	3.00	<.05	1.000	50	N	N	N	150	200
H67R1209	5.00	2.00	<.05	>1.000	100	.5	N	N	150	300
H67R1229	.50	.20	.10	.070	<10	N	N	N	50	200
H67R1238	.20	.07	.10	.010	<10	N	N	N	20	N
H67R1248	.30	.10	.05	.010	<10	N	N	N	100	50
H67R1258	.30	.20	<.05	.070	<10	N	N	N	50	30
H67R1267	5.00	2.00	.05	1.000	100	.7	N	N	150	300
H67R1277	10.00	3.00	.05	1.000	100	.5	N	N	200	300
H67R1286	7.00	3.00	.05	.700	100	<.5	N	N	150	200

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H67R0854	1.5	N	N	5	150	10	N	<5	N	30	15
H67R0863	N	N	N	<5	<10	<5	N	N	N	5	N
H67R0873	N	N	N	<5	10	20	N	N	N	7	<10
H67R0882	N	N	N	<5	10	5	N	N	N	5	N
H67R0893	1.0	N	N	15	100	30	N	15	N	30	50
H67R0902	N	N	N	<5	<10	<5	N	N	N	5	N
H67R0911	1.0	N	N	10	150	30	N	10	N	50	70
H67R0921	1.0	N	N	10	150	30	N	N	N	30	50
H67R0931	N	N	N	<5	<10	<5	N	<5	N	5	N
H67R0941	1.0	N	N	20	100	100	N	10	N	50	70
H67R0950	5.0	N	N	20	150	50	N	20	<20	100	150
H67R0959	2.0	N	N	5	100	20	N	30	N	50	70
H67R0969	1.5	N	N	15	150	70	N	20	<20	70	50
H67R0979	1.0	N	N	5	50	30	N	5	N	15	15
H67R0989	1.0	N	N	5	100	20	N	<5	N	20	15
H67R0999	<1.0	N	N	<5	10	<5	N	N	N	5	<10
H67R1008	1.5	N	N	5	200	50	N	10	N	50	70
H67R1018	<1.0	N	N	N	50	15	N	10	N	10	15
H67R1027	N	N	N	N	10	7	N	5	N	5	<10
H67R1037	N	N	N	N	<10	20	N	15	N	50	10
H67R1047	N	N	N	<5	<10	30	N	15	N	30	<10
H67R1056	1.5	N	N	5	200	30	N	<5	<20	70	50
H67R1066	N	N	N	N	10	<5	N	N	N	5	<10
H67R1076	2.0	N	N	20	150	50	N	10	N	70	70
H67R1085	1.0	N	N	5	50	15	N	5	N	15	20
H67R1095	2.0	N	N	20	150	50	N	15	N	70	70
H67R1104	1.5	N	N	30	200	200	N	70	<20	100	150
H67R1114	1.5	N	N	20	200	200	N	15	N	70	70
H67R1123	1.5	N	N	20	150	50	N	200	<20	70	70
H67R1133	1.0	N	N	5	100	30	N	5	N	15	10
H67R1143	1.0	N	N	15	100	70	N	100	<20	70	50
H67R1152	2.0	N	N	15	150	70	N	20	N	70	70
H67R1161	1.5	N	N	20	150	100	N	50	N	100	150
H67R1171	<1.0	N	N	<5	15	5	N	<5	N	7	<10
H67R1182	1.0	N	N	<5	15	10	N	<5	N	7	<10
H67R1191	<1.0	N	N	<5	10	<5	N	<5	N	5	<10
H67R1200	1.5	N	N	15	150	50	N	15	N	50	50
H67R1209	1.5	N	N	20	200	50	N	50	20	70	70
H67R1229	<1.0	N	N	<5	20	7	N	<5	N	7	<10
H67R1238	N	N	N	<5	<10	<5	N	<5	N	<5	<10
H67R1248	<1.0	N	N	<5	<10	<5	N	<5	N	5	<10
H67R1258	<1.0	N	N	<5	<10	<5	N	<5	N	5	<10
H67R1267	2.0	N	N	20	150	150	N	30	N	100	100
H67R1277	2.0	N	N	20	200	100	N	50	<20	100	100
H67R1286	2.0	N	N	10	200	50	N	20	N	70	100

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H67R0854	N	7	N	<100	100	N	N	N	100	N	20
H67R0863	N	N	N	1,000	<10	N	N	N	N	N	20
H67R0873	1,500	N	N	<100	10	N	N	N	200	N	20
H67R0882	N	N	N	<100	<10	N	N	N	50	N	20
H67R0893	N	10	N	<100	150	N	N	N	100	N	20
H67R0902	N	N	N	<100	<10	N	N	N	N	N	20
H67R0911	N	15	N	<100	100	N	N	N	100	N	20
H67R0921	N	10	N	<100	150	N	N	N	70	N	20
H67R0931	N	N	N	<100	<10	N	N	N	N	N	20
H67R0941	N	7	N	<100	100	N	10	N	100	N	20
H67R0950	N	10	N	<100	150	<50	N	<200	150	N	20
H67R0959	N	7	N	<100	50	<50	N	N	100	N	20
H67R0969	N	10	N	<100	100	<50	N	N	150	N	20
H67R0979	N	5	N	<100	100	<50	N	N	100	N	20
H67R0989	N	7	N	<100	150	<50	N	N	100	N	20
H67R0999	N	<5	N	<100	10	<50	N	N	50	N	20
H67R1008	N	15	N	100	150	<50	N	N	200	N	20
H67R1018	N	5	N	<100	70	<50	N	N	100	N	20
H67R1027	N	<5	N	<100	15	<50	N	N	<10	N	20
H67R1037	N	N	N	<100	10	<50	N	N	N	N	20
H67R1047	N	N	N	<100	10	<50	N	N	N	N	20
H67R1056	N	7	N	<100	200	<50	N	N	300	N	20
H67R1066	N	N	N	<100	<10	<50	N	N	N	N	20
H67R1076	N	15	N	<100	150	<50	N	N	200	N	20
H67R1085	N	5	N	<100	70	<50	N	N	50	N	20
H67R1095	N	10	N	<100	300	<50	N	N	100	N	20
H67R1104	N	20	N	<100	200	<50	N	N	150	N	20
H67R1114	N	15	N	<100	100	<50	N	N	100	N	20
H67R1123	N	10	N	<100	150	<50	N	N	150	N	20
H67R1133	N	7	N	<100	100	<50	N	N	150	N	20
H67R1143	N	5	N	<100	50	<50	10	N	300	N	20
H67R1152	N	10	N	<100	150	<50	<10	N	200	N	20
H67R1161	N	10	N	100	200	<50	N	N	150	N	19
H67R1171	N	N	N	100	10	<50	N	N	70	N	19
H67R1182	N	N	N	<100	50	<50	N	<200	50	N	19
H67R1191	N	N	N	<100	20	<50	N	N	30	N	19
H67R1200	N	10	N	<100	150	<50	N	N	150	N	19
H67R1209	N	10	N	<100	150	<50	10	N	300	N	19
H67R1229	N	<5	N	<100	20	<50	N	N	100	N	19
H67R1238	N	N	N	<100	<10	<50	N	N	N	N	19
H67R1248	N	N	N	<100	10	<50	N	N	N	N	19
H67R1258	N	N	N	<100	15	<50	N	N	100	N	19
H67R1267	N	10	N	100	150	<50	N	N	150	N	19
H67R1277	N	15	N	<100	150	<50	N	N	150	N	19
H67R1286	N	10	N	<100	150	<50	N	N	100	N	19

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Mn-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Ra-ppm S
H67R1296	7.00	1.00	.07	1.000	50	N	N	N	100	300
H67R1305	1.00	.70	.05	.100	15	N	N	N	100	200
H67R1315	.10	.05	.07	.015	<10	N	N	N	100	70
H67R1324	1.00	.10	.07	.070	<10	N	N	N	100	70
H67R1333	.20	.05	.07	.002	<10	N	N	N	50	20
H67R1343	1.00	.15	.07	.050	<10	N	N	N	50	100
H67R1354	5.00	.05	.05	.010	<10	N	N	N	30	20
H67R1361	.70	.10	.10	.010	<10	N	N	N	15	<20
H67R1372	.70	.10	.10	.020	<10	N	N	N	50	20
H67R1381	7.00	.70	.30	.200	30	<.5	N	N	50	100
H67R1390	.70	.07	.05	.050	<10	N	N	N	70	50
H67R1400	.70	.10	.05	.050	<10	N	N	N	70	70
H67R1409	.70	.05	<.05	.015	<10	N	N	N	50	N
H67R1419	.20	.03	<.05	.005	<10	N	N	N	10	30
H67R1428	5.00	3.00	<.05	1.000	50	<.5	N	N	200	300
H67R1438	.50	.05	<.05	.020	<10	N	N	N	20	50
H67R1447	.50	.50	.05	.100	<10	N	N	N	70	150
H67R1457	.15	.05	<.05	.020	<10	N	N	N	30	N
H67R1466	.20	.02	.07	.003	<10	N	N	N	70	30
H67R1476	.05	.02	<.05	.005	<10	N	N	N	30	N
H67R1485	.10	.05	<.05	.007	<10	N	N	N	10	50
H67R1495	1.50	.50	.05	.200	<10	N	<200	N	70	100
H67R1505	.50	.50	.05	.150	<10	N	N	N	100	150
H67R1515	.50	.15	.05	.070	50	N	N	N	20	100
H67R1524	.50	.50	<.05	.200	<10	N	N	N	70	150
H67R1534	.70	.50	.15	.100	15	N	N	N	70	100
H67R1553	.70	.50	<.05	.100	10	N	N	N	70	150
H67R1562	3.00	1.00	.05	.300	50	N	N	N	70	200
H67R1572	1.00	.70	<.05	.070	15	N	N	N	50	100
H67R1581	.20	.03	.20	.002	<10	N	N	N	70	N
H67R1591	1.00	.03	.07	.007	10	N	N	N	30	150
H67R1601	.05	.07	.10	.002	<10	N	N	N	50	50
H67R1611	.20	.07	.07	.015	<10	N	N	N	70	50
H67R1620	.07	.03	.05	.010	<10	N	N	N	50	N
H67R1629	.15	.07	.15	.010	<10	N	N	N	50	100
H67R1638	.10	.07	.10	.020	<10	N	N	N	50	20
H67R1648	.15	.07	.10	.005	<10	N	N	N	70	N
H67R1658	.05	.05	<.05	.050	<10	N	N	N	50	N
H67R1668	.20	.15	.05	.030	<10	N	N	N	70	50
H67R1677	1.00	.20	.07	.100	<10	.5	N	N	100	100
H67R1686	.07	.02	<.05	.002	<10	N	N	N	50	20
H67R1696	.15	.30	.05	.030	<10	N	N	N	50	30
H67R1705	.10	.07	.07	.010	<10	1.5	N	N	70	20
H67R1715	.15	.10	.05	.015	<10	N	N	N	50	30
H67R1724	1.00	.02	.05	.002	<10	N	N	N	50	N

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H67R1296	1.5	N	N	10	150	70	N	20	<20	50	100
H67R1305	1.5	N	N	<5	50	20	N	10	N	10	20
H67R1315	<1.0	N	N	<5	<10	5	N	<5	N	5	<10
H67R1324	<1.0	N	N	<5	10	7	N	<5	N	5	15
H67R1333	N	N	N	<5	<10	<5	N	<5	N	5	<10
H67R1343	<1.0	N	N	<5	<10	5	N	<5	N	7	<10
H67R1354	N	N	N	<5	<10	7	N	<5	N	5	20
H67R1361	N	N	N	<5	<10	7	N	<5	N	7	<10
H67R1372	N	N	N	<5	<10	5	N	5	N	5	<10
H67R1381	1.0	N	N	<5	10	20	N	15	N	10	100
H67R1390	<1.0	N	N	<5	15	5	N	<5	N	7	10
H67R1400	<1.0	N	N	<5	15	5	N	<5	N	7	<10
H67R1409	N	N	N	<5	10	7	N	<5	N	7	<10
H67R1419	N	N	N	<5	10	5	N	<5	N	<5	10
H67R1428	2.0	N	N	15	150	100	N	15	<20	50	70
H67R1438	<1.0	N	N	<5	10	7	N	<5	N	7	<10
H67R1447	1.0	N	N	<5	50	10	N	5	N	10	<10
H67R1457	N	N	N	<5	10	5	N	<5	N	<5	<10
H67R1466	N	N	N	<5	10	7	N	<5	N	5	<10
H67R1476	N	N	N	<5	10	<5	N	<5	N	5	<10
H67R1485	N	N	N	<5	10	<5	N	<5	N	5	<10
H67R1495	1.0	N	N	10	50	70	N	30	N	15	30
H67R1505	1.0	N	N	<5	30	10	N	<5	N	10	10
H67R1515	1.0	N	N	<5	<10	5	N	10	N	7	10
H67R1524	1.0	N	N	<5	50	15	N	<5	N	10	10
H67R1534	1.0	N	N	5	20	15	N	15	N	10	20
H67R1553	1.0	N	N	5	20	10	N	100	N	10	10
H67R1562	1.5	N	N	15	50	30	N	100	N	70	70
H67R1572	1.0	N	N	<5	10	10	N	70	N	10	<10
H67R1581	N	N	N	<5	<10	5	N	<5	N	5	<10
H67R1591	N	N	N	<5	<10	15	N	<5	N	7	10
H67R1601	N	N	N	<5	<10	5	N	<5	N	5	<10
H67R1611	N	N	N	<5	<10	<5	N	<5	N	7	<10
H67R1620	<1.0	N	N	<5	10	<5	N	<5	N	5	<10
H67R1629	<1.0	N	N	<5	10	5	N	<5	N	5	<10
H67R1638	<1.0	N	N	<5	10	5	N	<5	N	5	<10
H67R1648	<1.0	N	N	<5	10	5	N	<5	N	5	<10
H67R1658	<1.0	N	N	<5	10	<5	N	<5	N	5	<10
H67R1668	<1.0	N	N	<5	10	7	N	5	N	7	<10
H67R1677	1.0	N	N	10	30	30	N	10	N	15	30
H67R1686	<1.0	N	N	<5	10	7	N	<5	N	5	<10
H67R1696	<1.0	N	N	<5	10	<5	N	<5	N	5	<10
H67R1705	<1.0	N	N	<5	10	5	N	<5	N	5	1,500
H67R1715	<1.0	N	N	<5	10	7	N	<5	N	5	<10
H67R1724	<1.0	N	N	<5	10	15	N	<5	N	5	<10

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sd-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H67R1296	N	7	N	<100	100	<50	N	N	150	N	19
H67R1305	N	<5	N	150	70	<50	N	N	100	N	19
H67R1315	N	N	N	<100	10	<50	N	N	N	N	19
H67R1324	N	N	N	<100	15	<50	N	N	70	N	19
H67R1333	N	N	N	<100	<10	<50	N	N	20	N	19
H67R1343	N	N	N	<100	15	<50	N	N	50	N	19
H67R1354	N	N	N	<100	<10	<50	N	N	20	N	19
H67R1361	N	N	N	<100	10	<50	N	N	30	N	19
H67R1372	N	N	N	<100	10	<50	N	N	10	N	19
H67R1381	N	<5	N	<100	30	<50	N	N	150	N	19
H67R1390	N	N	N	<100	20	<50	N	N	20	N	19
H67R1400	N	N	N	<100	30	<50	N	<200	30	N	19
H67R1409	N	N	N	<100	10	<50	N	N	10	N	19
H67R1419	N	N	N	<100	<10	<50	N	N	20	N	19
H67R1428	N	10	N	<100	200	<50	10	N	100	N	19
H67R1438	N	N	N	<100	10	<50	N	N	50	N	19
H67R1447	N	5	N	<100	100	<50	N	N	100	N	19
H67R1457	N	N	N	<100	15	<50	N	N	N	N	19
H67R1466	N	N	N	<100	10	<50	N	N	N	N	19
H67R1476	N	N	N	<100	10	<50	N	N	10	N	19
H67R1485	N	N	N	<100	<10	<50	N	N	30	N	19
H67R1495	N	5	N	<100	100	<50	N	N	100	N	19
H67R1505	N	5	N	<100	50	<50	N	N	100	N	19
H67R1515	N	N	N	<100	15	<50	N	N	150	N	19
H67R1524	N	5	N	<100	100	<50	N	N	100	N	19
H67R1534	N	<5	N	<100	50	<50	N	N	150	N	19
H67R1553	N	5	N	<100	50	<50	N	N	30	N	19
H67R1562	N	7	N	<100	70	<50	10	N	100	N	19
H67R1572	N	N	N	<100	70	<50	N	N	70	N	19
H67R1581	N	N	N	<100	<10	<50	N	N	N	N	19
H67R1591	N	N	N	<100	<10	<50	N	N	100	N	18
H67R1601	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1611	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1620	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1629	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1638	N	N	N	<100	30	<50	N	N	N	N	18
H67R1648	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1658	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1668	N	N	N	<100	50	<50	N	N	N	N	18
H67R1677	N	5	N	<100	150	<50	N	N	70	N	18
H67R1686	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1696	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1705	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1715	N	N	N	<100	20	<50	N	N	N	N	18
H67R1724	N	N	N	<100	<10	<50	N	N	N	N	18

TABLE 4.--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Fe-pct. S	Mg-pct. S	Ca-pct. S	Ti-pct. S	Mn-ppm S	Ag-ppm S	As-ppm S	Au-ppm S	B-ppm S	Pb-ppm S
H67R1734	.20	.03	<.05	.010	<10	N	N	N	70	20
H67R1743	.30	.05	<.05	.020	<10	7.0	N	N	50	20
H67R1753	.10	.03	.05	.002	<10	N	N	N	30	N
H67R1763	1.00	.30	<.05	.100	<10	N	N	N	50	100
H67R1772	.70	.10	.15	.005	<10	N	N	N	30	20
H67R1781	3.00	.70	<.05	.300	20	1.5	N	N	100	200
H67R1791	.20	.05	<.05	.015	<10	N	N	N	30	20
H67R1800	.70	.50	.05	.100	<10	N	N	N	50	100
H67R1810	5.00	1.00	<.05	.500	30	1.0	N	N	150	200
H67R1820	7.00	1.50	.20	.200	50	1.5	<200	N	100	150
H67R1830	10.00	1.50	<.05	.500	50	2.0	500	N	100	200
H67R1849	5.00	.70	.20	.100	50	N	300	N	50	100
H67R1857	.70	.03	.05	.003	<10	N	N	N	50	N
H67R1867	7.00	1.00	.05	.500	50	.5	N	N	100	150
H67R1876	.30	.20	.05	.050	10	N	N	N	50	100
H67R1885	.50	.10	.05	.050	<10	N	N	N	50	50
H67R1897	.50	.30	<.05	.070	10	N	N	N	50	70
H67R1908	.50	.15	.05	.050	10	N	N	N	30	100
H67R1917	.50	.20	.05	.070	50	N	N	N	20	150
H67R1927	.30	.15	.05	.050	10	N	N	N	20	100
H67R1937	.30	.50	<.05	.100	15	N	N	N	50	70
H67R1946	.30	.30	<.05	.100	30	N	N	N	20	150
H67R1955	.70	.30	.07	.150	100	N	N	N	15	200
H67R1965	.50	.20	.05	.070	50	N	N	N	15	200
H67R1974	.50	.20	.05	.100	100	N	N	N	20	200
H67R1984	.70	.50	.05	.200	100	N	N	N	30	300
H67R1994	.70	.50	<.05	.100	50	N	N	N	50	200
H67R2003	.50	.20	<.05	.100	100	N	N	N	20	200
H67R2012	.50	.20	<.05	.100	70	N	N	N	20	300
H67R2021	.70	.70	<.05	.100	50	N	N	N	50	200
H67R2031	.70	1.00	<.05	.200	50	N	N	N	70	200
H67R2040	.50	.50	<.05	.200	100	N	N	N	50	200
H67R2050	.50	.70	<.05	.100	50	N	N	N	70	200
H67R2059	.50	.50	<.05	.150	50	N	N	N	50	300
H67R2069	.50	.50	<.05	.150	50	N	N	N	50	200
H67R2075	.70	.50	.05	.200	30	N	N	N	30	200

TABLE 4.-- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Be-ppm S	Bi-ppm S	Cd-ppm S	Co-ppm S	Cr-ppm S	Cu-ppm S	La-ppm S	Mo-ppm S	Nb-ppm S	Ni-ppm S	Pb-ppm S
H67R1734	<1.0	N	N	<5	10	5	N	<5	N	5	<10
H67R1743	<1.0	N	N	<5	10	100	N	<5	N	5	2,000
H67R1753	<1.0	N	N	<5	10	<5	N	<5	N	5	<10
H67R1763	<1.0	N	N	<5	20	15	N	70	N	15	10
H67R1772	1.0	N	N	<5	10	10	N	5	N	7	15
H67R1781	1.5	N	N	20	50	30	N	100	<20	50	70
H67R1791	<1.0	N	N	<5	10	7	N	5	N	7	10
H67R1800	1.0	N	N	<5	30	10	N	5	N	20	50
H67R1810	3.0	N	N	30	70	700	N	150	N	100	100
H67R1820	2.0	N	N	20	100	1,000	N	20	N	100	100
H67R1830	2.0	N	N	30	100	300	N	500	N	200	300
H67R1849	1.5	N	N	10	50	30	N	30	N	5	50
H67R1857	<1.0	N	N	<5	<10	7	N	10	N	50	N
H67R1867	1.5	N	N	15	100	100	N	50	N	5	150
H67R1876	<1.0	N	N	<5	<10	7	N	7	N	10	<10
H67R1885	<1.0	N	N	<5	<10	10	N	70	N	7	<10
H67R1897	1.0	N	N	<5	<10	5	30	30	N	7	<10
H67R1908	1.0	N	N	<5	<10	7	30	10	N	7	<10
H67R1917	1.5	N	N	<5	<10	5	50	15	N	7	<10
H67R1927	1.5	N	N	<5	<10	<5	50	15	N	7	<10
H67R1937	1.5	N	N	<5	<10	5	70	15	N	5	<10
H67R1946	1.0	N	N	<5	<10	<5	70	7	<20	5	10
H67R1955	1.5	N	N	<5	<10	5	50	<5	<20	5	20
H67R1965	1.0	N	N	<5	<10	<5	50	<5	<20	5	15
H67R1974	1.5	N	N	<5	<10	<5	50	<5	N	5	15
H67R1984	1.5	N	N	<5	<10	<5	70	<5	N	5	50
H67R1994	1.0	N	N	<5	<10	<5	50	<5	N	5	15
H67R2003	1.5	N	N	<5	<10	<5	70	<5	N	5	20
H67R2012	1.0	N	N	<5	<10	<5	50	<5	N	5	15
H67R2021	1.0	N	N	<5	<10	<5	70	<5	N	<5	15
H67R2031	1.5	N	N	<5	<10	<5	100	<5	N	<5	10
H67R2040	1.5	N	N	<5	<10	<5	50	<5	20	<5	50
H67R2050	1.5	N	N	<5	<10	5	30	<5	<20	5	20
H67R2059	1.0	N	N	<5	<10	5	70	<5	20	<5	50
H67R2069	1.0	N	N	<5	<10	<5	70	<5	20	<5	15
H67R2075	1.0	N	N	<5	<10	5	70	<5	20	<5	30

TABLE 4.--- SPECTROGRAPHIC ANALYSES OF INSOLUBLE-RESIDUE SAMPLES FROM DRILL HOLE NO. H67, HARRISON 1 X 2
 QUADRANGLE, MISSOURI AND ARKANSAS--Continued

Sample	Sb-ppm S	Sc-ppm S	Sn-ppm S	Sr-ppm S	V-ppm S	W-ppm S	Y-ppm S	Zn-ppm S	Zr-ppm S	Th-ppm S	Form
H67R1734	N	N	N	<100	10	<50	N	N	N	N	18
H67R1743	N	N	N	<100	10	<50	N	700	30	N	18
H67R1753	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1763	N	N	N	<100	150	<50	N	N	30	N	18
H67R1772	N	N	N	<100	15	<50	N	N	N	N	18
H67R1781	N	5	N	<100	150	<50	N	N	100	N	18
H67R1791	N	N	N	<100	<10	<50	N	<200	N	N	18
H67R1800	N	<5	N	100	150	<50	N	N	30	N	18
H67R1810	N	5	N	100	300	<50	<10	500	100	N	18
H67R1820	N	5	N	<100	300	<50	N	200	50	N	18
H67R1830	N	10	N	150	700	<50	10	N	100	N	18
H67R1849	N	5	N	<100	100	<50	N	N	70	N	18
H67R1857	N	N	N	<100	<10	<50	N	N	N	N	18
H67R1867	N	10	N	100	150	<50	10	N	100	N	18
H67R1876	N	N	N	<100	50	<50	<10	N	70	N	18
H67R1885	N	N	N	<100	50	<50	N	N	20	N	17
H67R1897	N	N	N	<100	50	<50	<10	N	50	N	17
H67R1908	N	<5	N	<100	50	<50	10	N	100	N	45
H67R1917	N	<5	N	<100	30	<50	20	N	150	N	45
H67R1927	N	N	N	<100	15	<50	15	N	150	N	45
H67R1937	N	5	N	<100	20	<50	20	N	100	N	45
H67R1946	N	<5	N	<100	10	<50	30	N	100	N	45
H67R1955	N	5	N	<100	<10	<50	30	N	150	N	45
H67R1965	N	5	N	<100	<10	<50	30	N	100	N	45
H67R1974	N	5	N	<100	<10	<50	30	N	200	N	45
H67R1984	N	5	N	<100	<10	<50	50	N	150	N	45
H67R1994	N	<5	N	<100	<10	<50	30	N	150	N	45
H67R2003	N	5	N	<100	<10	<50	50	N	200	N	45
H67R2012	N	5	N	<100	<10	<50	50	N	200	N	45
H67R2021	N	7	N	<100	<10	<50	50	N	300	N	45
H67R2031	N	7	N	<100	10	<50	70	N	300	N	45
H67R2040	N	7	N	<100	10	<50	50	N	300	N	45
H67R2050	N	5	N	<100	10	<50	50	N	200	N	45
H67R2059	N	5	N	<100	10	<50	70	N	300	N	45
H67R2069	N	7	N	<100	10	<50	70	N	200	N	45
H67R2075	N	7	N	<100	10	<50	70	N	300	N	11