

UNITED STATES DEPARTMENT OF THE INTERIOR
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**Analytical results and sample locality map
of rock samples from the Mazatzal Wilderness and
contiguous roadless areas,
Gila, Maricopa, and Yavapai Counties, Arizona**

By

M. S. Erickson, B. F. Arbogast, S. P. Marsh, and
C. M. McDougal

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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.

CONTENTS

| | Page |
|------------------------------------|------|
| Studies related to Wilderness..... | 1 |
| Introduction..... | 1 |
| Geologic setting..... | 1 |
| Physiography..... | 1 |
| Method of study..... | 2 |
| Sample collection..... | 2 |
| Sample preparation..... | 2 |
| Sample analysis..... | 2 |
| Spectrographic method..... | 2 |
| Chemical methods..... | 5 |
| RASS..... | 6 |
| Description of data table..... | 6 |
| References Cited..... | 6 |

TABLES

| | |
|--|---|
| TABLE 1. Limits of determination for spectrographic analysis of rocks | 4 |
| TABLE 2. Chemical methods used..... | 5 |
| TABLE 3. Spectrographic and chemical analyses and rock descriptions..... | 8 |

ILLUSTRATIONS

| | |
|--|---|
| FIGURE 1. Location map and generalized geology of the Mazatzal Wilderness and contiguous roadless areas..... | 3 |
| PLATE 1. Map showing localities of rock samples for the Mazatzal Wilderness and contiguous roadless areas.....in pocket | |

STUDIES RELATED TO WILDERNESS

The Wilderness Act (Public Law 88-577, September 3, 1964) and related acts require the U.S. Geological Survey and the U.S. Bureau of Mines to survey certain areas on Federal lands to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of a geochemical survey of the Mazatzal Wilderness and contiguous roadless areas in the Tonto and Coconino National Forest, Gila, Maricopa, and Yavapai Counties, Arizona. The area was established as a wilderness by Public Law 88-577, September 3, 1964. The Mazatzal Wilderness and contiguous roadless areas were classified as a further planning area during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

INTRODUCTION

In 1979-81 a reconnaissance geochemical survey was made of the Mazatzal Wilderness and contiguous roadless areas, Gila, Maricopa, and Yavapai Counties, Arizona.

The Mazatzal Wilderness and contiguous roadless areas comprise about 452 sq mi in Gila, Maricopa, and Yavapai Counties, Arizona, and lie about 8 mi west of Payson, Arizona (see figure 1). Access to the vicinity of the study area is provided on the east by Arizona State Highway 87; several U.S. Forest Service roads go to the east boundary of the wilderness from Highway 87 and Payson, Arizona.

Geologic Setting

The Mazatzal Mountains lie at the margin of the Basin and Range physiographic province in a region of Arizona where the mountain ranges are about as wide or wider than the intervening basins. The Mogollon Rim, which defines the southern physiographic border of the Colorado Plateau, is about 5 mi (8 km) north of the Mazatzal Wilderness. Paleozoic rocks, extensively exposed along the Mogollon Rim, have been largely eroded from the wilderness and roadless areas. The few remaining masses of Paleozoic rocks in the wilderness rest on thick sequences of mostly steeply-tilted, stratified Proterozoic rocks and on Proterozoic granitic rocks. These rocks are similar to Proterozoic layered and intrusive rocks exposed widely in central Arizona east and northwest of the wilderness. Tertiary volcanic rocks exposed within the wilderness are at the southern end of a large volcanic field that extends north and northwest for more than 100 mi (160 km) in the western parts of the Colorado Plateau and adjacent areas of the Basin and Range Province.

Physiography

The Mazatzal Mountains constitute the dominant physiographic feature of the wilderness. The eastern slopes of these mountains rise steeply from 3,500 ft along the valley of Rye Creek east of the range to 7,903 ft at Mazatzal Peak. To the west, the range slopes steeply from the crest, then more gently along the lower flanks to the Verde River, one of the main drainage channels of Arizona. In the northern part of the wilderness, the East Verde River, a tributary of the Verde, occupies a deep canyon that separates the Mazatzal Mountains from mesas to the north. The lowest parts of

the wilderness have altitudes of about 2,200 ft and are located near Bartlett Reservoir in the southwestern part of the area studied.

METHODS OF STUDY

Sample Collection

Rock samples were collected at sites shown on plate 1. Analyses for a total of 364 rock samples are listed in this report (tables 3).

Rock samples were collected from outcrops or exposures in the vicinity of the plotted site location. Most samples were taken from areas of observed or suspected mineralization including mines, mine dumps, and prospect pits. Altered areas and structures were sampled where observed.

Sample Preparation

Rock samples were crushed and then pulverized with ceramic plates to minus 0.15 mm.

Sample Analysis

Spectrographic method

The rock samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). Spectrographic results are obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting unit at the 83 percent confidence level and plus or minus two reporting units at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram) (Table 1).

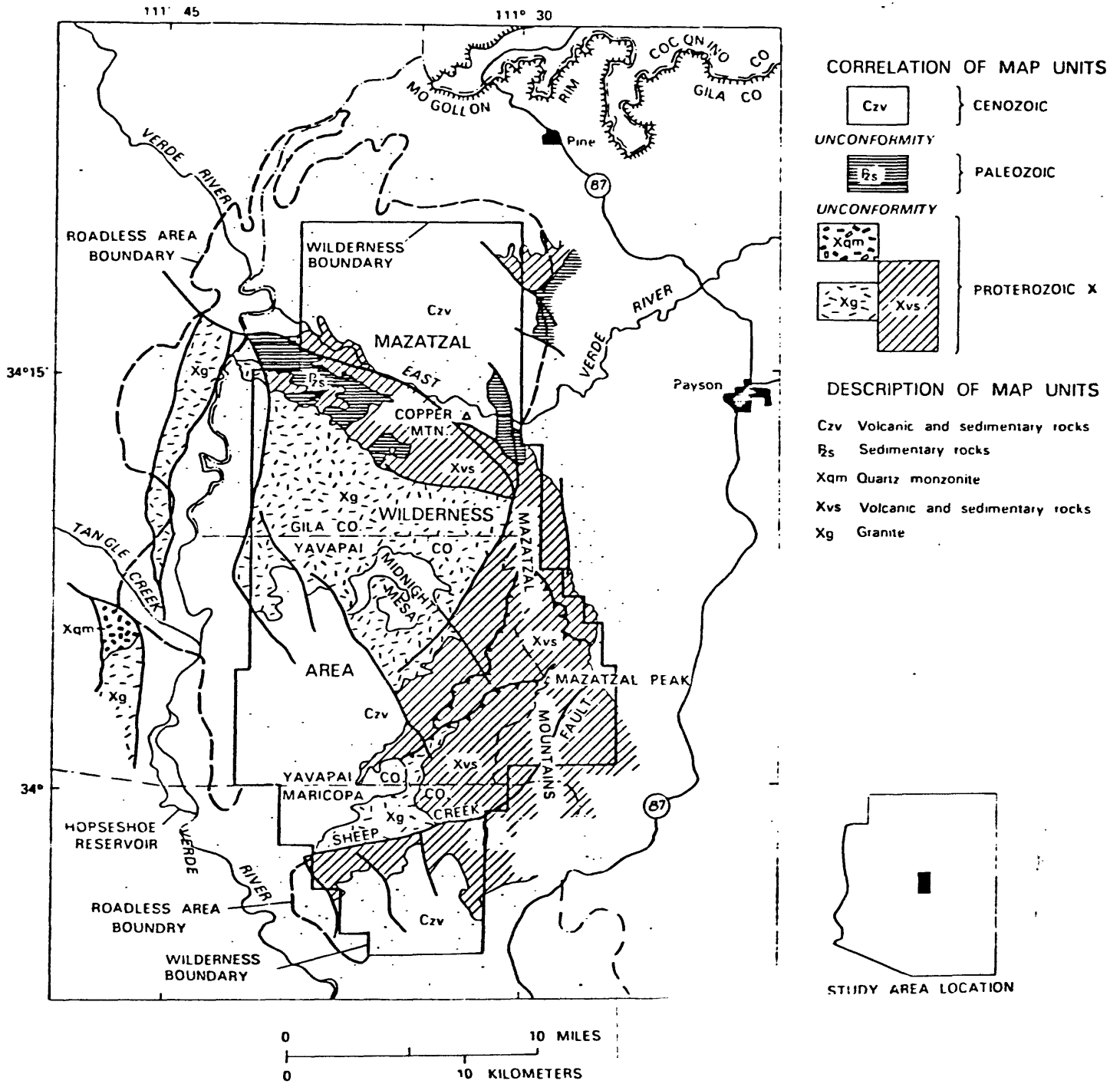


FIGURE 1.--Map showing location and generalized geology of the Mazatzal Wilderness and contiguous roadless areas (Wrucke and Ellis, 1983).

TABLE 1.--Limits of determination for the spectrographic analysis of rocks based on a 10-mg sample

| Element | Lower determination limit | Upper determination limit |
|-------------------|---------------------------|---------------------------|
| Percent | | |
| Iron (Fe) | 0.05 | 20 |
| Magnesium (Mg) | .02 | 10 |
| Calcium (Ca) | .05 | 20 |
| Titanium (Ti) | .002 | 1 |
| Parts per million | | |
| Manganese (Mn) | 10 | 5,000 |
| 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) | 5 | 2,000 |
| Chromium (Cr) | 10 | 5,000 |
| Copper (Cu) | 5 | 20,000 |
| Lanthanum (La) | 20 | 1,000 |
| 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 |
| Vanadium (V) | 10 | 10,000 |
| Tungsten (W) | 50 | 10,000 |
| Yttrium (Y) | 10 | 2,000 |
| Zinc (Zn) | 200 | 10,000 |
| Zirconium (Zr) | 10 | 1,000 |
| Thorium (Th) | 100 | 2,000 |

Chemical methods

Other methods of analysis used on samples from the Mazatzal Wilderness and contiguous roadless areas are summarized in table 2.

Table 2.--Chemical methods used

| Element or constituent determined | Analytical Method | Determination limit ¹ (micrograms/ gram or ppm) | Analyst | Reference |
|-----------------------------------|------------------------|--|------------------------|--|
| Gold (Au) | Atomic absorption | 0.05 | J. Grey | Thompson and others, 1968. |
| Mercury (Hg) | Instrument (Jerome) | 0.02 | M. Spoo B. Arbogast | <u>Modification of</u> McNerney and others, 1972 and Vaughn, and McCarthy, 1964 |
| Arsenic (As) | Colorimetric | 10 | B. Arbogast | Ward, 1963. |
| Antimony (Sb) | Atomic absorption | 2 | B. Arbogast | Welsch and Chao, 1975. |
| Zinc (Zn) | Atomic absorption | 5 | B. Arbogast | Modification of Viets, 1978. |
| Bismuth (Bi) | Atomic absorption | 1 | B. Arbogast | Modification of Viets, 1978. |
| Cadmium (Cd) | Atomic absorption | 0.05 | B. Arbogast | Modification of Viets, 1978. |
| Copper (Cu) | Atomic absorption | 5 | B. Arbogast | Modification of Viets, 1978. |
| Lead (Pb) | Atomic absorption | 5 | B. Arbogast | Modification of Viets, 1978. |
| Silver (Ag) | Atomic absorption | .05 | B. Arbogast | Modification of Viets, 1978. |
| Tellurium (Te) | Atomic absorption | 0.1 | B. Vaughn | Chao and others, 1978. |
| Tin (Sn) | Atomic absorption | 2 | M. Spoo B. Arbogast | Welsch and Chao, 1976. |

¹The determination limit is dependent upon sample weight. Given limits imply use of sample weight required by method. Higher limits of determination result from using less than required sample weight.

Analytical results for rock samples are listed in Table 3.

RASS

Upon completion of all analytical work, the geological and analytical data for the samples was entered into a computer-based file called RASS (Rock Analysis Storage System). Any or all of this information may be retrieved and converted to a standard form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1976).

DESCRIPTION OF DATA TABLE

Table 3 lists the analyses for the rock samples. For the table, the data are arranged so that column 1 contains the USGS-assigned sample numbers. These numbers correspond to the numbers shown on the site location maps (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses. A letter "N" in the table indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in table 3. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the table in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the table in front of the upper limit of determination.

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Table 3.--Spectrographic and atomic absorption analyses of rock samples from the Mazatzal Wilderness and contiguous roadless areas, Gila, Maricopa, and Yavapai Counties, Arizona

[The following qualifiers are used in reporting spectrographic data: N, not detected at the limit of determination; < detected, but below the limit of determination; > greater than the upper determination limit. The qualifier used in reporting atomic absorption data was >n, values which exceeded the upper detection limits of the method of analysis.]

| Sample | Latitude | Longitude | Fe-pct. | Mg-pct. | Ca-pct. | Ti-pct. | Mn-ppm | Ag-ppm | As-ppm | Au-ppm | B-ppm |
|---------|----------|-----------|---------|---------|---------|---------|--------|--------|---------|--------|--------|
| | | | s | s | s | s | s | s | s | s | s |
| MZ011R | 34 2 40 | 111 33 26 | .30 | .07 | <.05 | .020 | >5,000 | N | N | N | 10 |
| MZ012R | 34 17 32 | 111 31 32 | 3.00 | 1.50 | 2.00 | .500 | 700 | N | N | N | <10 |
| MZ012R | 34 21 50 | 111 37 49 | 3.00 | .05 | .05 | .020 | 70 | N | N | N | 10 |
| MZ012RA | 34 21 50 | 111 37 49 | 5.00 | 2.00 | 5.00 | .200 | 1,000 | N | N | N | 30 |
| MZ012RB | 34 21 50 | 111 37 49 | 5.00 | .05 | .07 | .100 | 50 | 5.0 | N | N | 15 |
| MZ012RC | 34 21 50 | 111 37 49 | 3.00 | 1.50 | .10 | .100 | 1,000 | 1.0 | N | N | 20 |
| MZ012RD | 34 21 50 | 111 37 49 | 20.00 | 1.00 | .50 | .150 | 5,000 | 20.0 | N | <10 | 150 |
| MZ012RE | 34 21 50 | 111 37 49 | >20.00 | .50 | .15 | .100 | N | N | N | 200 | 200 |
| MZ013R | 34 21 47 | 111 39 30 | 7.00 | 3.00 | 10.00 | .700 | 1,000 | N | N | N | 20 |
| MZ026R | 34 16 5 | 111 43 29 | 7.00 | 3.00 | >20.00 | .700 | 1,000 | N | N | N | 10 |
| MZ030R | 34 15 11 | 111 41 46 | .50 | 7.00 | >20.00 | .030 | >5,000 | N | N | N | 30 |
| MZ044R | 34 10 39 | 111 42 10 | 5.00 | 5.00 | >20.00 | .010 | 5,000 | N | N | N | 50 |
| MZ060R | 34 12 45 | 111 38 5 | 1.50 | .50 | .30 | .150 | 200 | N | N | N | 200 |
| MZ060KA | 34 13 0 | 111 37 46 | <.05 | .02 | .05 | .002 | 30 | N | N | N | <10 |
| MZ071R | 34 11 39 | 111 33 50 | 7.00 | 3.00 | 10.00 | 1.000 | 1,000 | N | N | N | 20 |
| MZ076R | 34 8 47 | 111 35 12 | 1.50 | .20 | .15 | .100 | 700 | 20.0 | N | N | 200 |
| MZ076RA | 34 8 47 | 111 35 11 | 1.50 | .10 | .07 | .150 | 1,500 | <.5 | N | N | 70 |
| MZ076RB | 34 8 47 | 111 38 25 | .30 | .07 | .05 | .050 | 150 | N | N | N | 20 |
| MZ082R | 34 12 50 | 111 40 11 | .20 | .05 | .10 | .020 | 200 | N | N | N | N |
| MZ090R | 34 12 42 | 111 33 43 | 1.50 | .50 | 3.00 | .500 | 500 | 70.0 | >10,000 | N | 1,000 |
| MZ109R | 34 15 18 | 111 31 35 | 10.00 | 5.00 | 20.00 | .700 | 2,000 | 1.0 | N | N | 50 |
| MZ109R | 34 15 19 | 111 32 1 | 2.00 | .30 | 3.00 | .050 | 70 | .7 | N | N | <10 |
| MZ102RA | 34 12 40 | 111 29 1 | 1.50 | .30 | .30 | .150 | 300 | 7.0 | N | N | <10 |
| MZ102RB | 34 12 40 | 111 29 1 | 7.00 | 2.00 | .70 | .500 | 700 | 7.0 | N | N | 100 |
| MZ102RC | 34 12 40 | 111 29 1 | 1.50 | .30 | .20 | .200 | 200 | .5 | N | N | 50 |
| MZ112RD | 34 12 40 | 111 29 1 | 7.00 | 1.00 | .20 | .200 | 500 | 15.0 | N | 20 | 30 |
| MZ103R | 34 14 59 | 111 34 55 | 7.00 | 1.50 | 20.00 | .300 | 1,500 | 20.0 | N | N | 100 |
| MZ103RA | 34 14 59 | 111 34 55 | 2.00 | 1.00 | 5.00 | .300 | 1,000 | .5 | N | N | 20 |
| MZ103RB | 34 14 59 | 111 34 55 | 15.00 | 3.00 | .30 | .070 | 700 | 3.0 | N | N | 100 |
| MZ103R | 34 14 5 | 111 29 7 | 10.00 | 5.00 | 20.00 | 1.000 | 1,500 | <.5 | N | N | 20 |
| MZ175R | 34 11 34 | 111 33 55 | 1.00 | .10 | .05 | .050 | 150 | N | N | N | 20 |
| MZ249R | 34 4 29 | 111 33 37 | .20 | .07 | .07 | .010 | 100 | N | N | N | <10 |
| MZ249RA | 34 4 31 | 111 33 37 | .50 | .07 | .07 | .002 | 300 | <.5 | N | N | 20 |
| MZ269R | 34 6 15 | 111 31 28 | 2.00 | .05 | .50 | .100 | 70 | 5.0 | 1,500 | N | 50 |
| MZ269RA | 34 6 15 | 111 31 29 | .50 | .05 | .70 | .050 | 70 | 20.0 | 1,500 | N | 10 |
| MZ269RD | 34 6 14 | 111 31 29 | 7.00 | .05 | .05 | .010 | 30 | 1.0 | N | N | 20 |
| MZ357R | 33 56 34 | 111 30 31 | 1.00 | .50 | .50 | .070 | 2,000 | <.5 | N | N | 20 |
| MZ358R | 33 57 42 | 111 32 47 | 15.00 | .30 | .15 | .300 | 500 | 300.0 | >10,000 | N | 2,000 |
| MZ358RA | 33 57 41 | 111 30 19 | >20.00 | .50 | .30 | .100 | 150 | 200.0 | >10,000 | N | >2,000 |
| MZ358RB | 33 57 41 | 111 32 44 | >20.00 | .50 | .15 | .100 | 70 | 200.0 | >10,000 | N | >2,000 |
| MZ358RC | 33 57 42 | 111 32 47 | >20.00 | .50 | .10 | .200 | 70 | 100.0 | 5,000 | N | >2,000 |
| MZ358RD | 34 0 1 | 111 29 27 | 20.00 | 1.00 | .30 | .300 | 300 | 3.0 | N | N | 200 |
| MZ358RA | 34 0 1 | 111 27 27 | 15.00 | .30 | .30 | .300 | 3,000 | 5.0 | N | N | 100 |
| MZ358RB | 34 0 1 | 111 25 34 | 5.00 | .15 | .15 | .200 | 200 | N | N | N | 30 |
| MZ358RC | 34 0 3 | 111 40 43 | 2.00 | .15 | .17 | .200 | 30 | N | N | N | 15 |

TABLE 3.--continued

| Sample | Ba-ppm \$ | Be-ppm \$ | Bi-ppm \$ | Cd-ppm \$ | Co-ppm \$ | Cr-ppm \$ | Cu-ppm \$ | La-ppm \$ | Mo-ppm \$ | Nb-ppm \$ | Ni-ppm \$ | Pb-ppm \$ | Sb-ppm \$ |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| MZ001R | >5,000 | 10.0 | N | N | 15 | 100 | 50 | N | 15 | N | 10 | <10 | N |
| MZ010R | 700 | <1.0 | N | N | 30 | 200 | 30 | 30 | N | <20 | 150 | <10 | N |
| MZ012R | 200 | N | N | N | N | 70 | 150 | N | N | N | 7 | N | N |
| MZ012RA | 300 | N | N | N | 20 | 100 | 100 | N | N | N | 20 | 15 | N |
| MZ012RB | 200 | N | N | N | N | 30 | 150 | N | 20 | N | 5 | N | N |
| MZ012RC | 300 | N | N | N | 50 | 20 | 5,000 | 30 | N | N | 30 | 50 | N |
| MZ012RD | 500 | <1.0 | N | N | 200 | 70 | >20,000 | 20 | N | N | 50 | 70 | N |
| MZ012RE | 100 | N | N | N | 300 | 30 | 700 | N | 70 | N | 150 | 70 | N |
| MZ013R | 1,500 | <1.0 | N | N | 50 | 500 | 500 | 50 | N | <20 | 150 | 20 | N |
| MZ026R | 5,000 | 1.0 | N | N | 50 | 1,000 | 150 | 70 | N | <20 | 150 | 15 | N |
| MZ030R | 100 | <1.0 | N | N | 10 | 70 | 50 | N | N | N | 50 | 15 | N |
| MZ044R | 100 | 3.0 | N | N | 30 | 10 | 30 | 20 | N | N | 70 | 30 | N |
| MZ060R | 700 | 5.0 | N | N | N | 10 | 15 | 150 | N | 20 | N | 20 | N |
| MZ060RA | >5,000 | N | N | N | N | 20 | 20 | N | N | N | N | 30 | N |
| MZ071R | 3,000 | 1.0 | N | N | 30 | 150 | 100 | 50 | N | <20 | 100 | 20 | N |
| MZ076R | 2,000 | 7.0 | 50 | N | 5 | 10 | >20,000 | 50 | N | <20 | N | 700 | N |
| MZ076RA | 1,000 | 3.0 | N | N | <5 | 10 | 200 | 100 | N | <20 | N | 50 | N |
| MZ076RB | 500 | 1.5 | N | N | N | 20 | 50 | <20 | N | N | <5 | 20 | N |
| MZ082R | 300 | <1.0 | N | N | N | <10 | 20 | N | N | N | <5 | N | N |
| MZ090R | 1,500 | <1.0 | 200 | N | 20 | 200 | 10,000 | N | N | N | <5 | 1,500 | N |
| MZ099R | >5,000 | <1.0 | N | N | 70 | 700 | 500 | 100 | N | 30 | 150 | 30 | N |
| MZ102R | 300 | N | <10 | N | 7 | 20 | 3,000 | N | N | N | 10 | 150 | N |
| MZ102RA | 1,000 | N | 50 | N | 7 | 15 | 3,000 | N | N | N | <5 | 150 | N |
| MZ102RB | 3,000 | <1.0 | 20 | N | 50 | 70 | >20,000 | 30 | N | N | 30 | 30 | N |
| MZ102RC | 1,500 | 1.5 | N | N | N | 10 | 500 | 150 | N | <20 | <5 | 70 | N |
| MZ102RD | 1,500 | <1.0 | 50 | N | 5 | 20 | 10,000 | 20 | N | N | 15 | 10 | N |
| MZ103R | <20 | <1.0 | N | N | 15 | 150 | 7,000 | 30 | N | N | 15 | 70 | N |
| MZ103RA | 500 | <1.0 | N | N | 7 | 10 | 500 | <20 | N | N | <5 | 50 | N |
| MZ103RB | 5,000 | N | 10 | N | 70 | <10 | >20,000 | N | N | N | 50 | 20 | N |
| MZ107R | 3,000 | <1.0 | N | N | 70 | 700 | 200 | 100 | N | 30 | 150 | 50 | N |
| MZ175R | 300 | 5.0 | 20 | N | N | N | 15 | 50 | N | 20 | N | 10 | N |
| MZ249R | 300 | <1.0 | N | N | N | <10 | 200 | N | N | N | <5 | 70 | N |
| MZ249RA | 200 | 2.0 | <10 | N | N | <10 | 100 | N | N | N | <5 | 20 | N |
| MZ269R | 100 | 1.5 | 150 | N | <5 | <10 | 5,000 | N | 100 | <20 | <5 | 150 | N |
| MZ269RA | 1,500 | 2.0 | 700 | N | <5 | <10 | >20,000 | 30 | 20 | N | <5 | 200 | N |
| MZ269RB | 1,500 | 50.0 | 70 | N | N | <10 | >20,000 | N | N | N | <5 | 100 | N |
| MZ357R | 500 | <1.0 | N | N | 10 | 30 | 50 | N | N | N | 20 | 200 | N |
| MZ358R | 500 | N | N | N | N | 1,500 | 1,000 | 20 | N | N | 30 | >20,000 | 3,000 |
| MZ358RA | 200 | <1.0 | N | 300 | N | 150 | 2,000 | <20 | 30 | N | 10 | >20,000 | 2,000 |
| MZ358RB | 100 | <1.0 | N | 200 | N | 100 | 2,000 | <20 | N | N | 10 | >20,000 | 500 |
| MZ358RC | 300 | N | N | 200 | N | 500 | 1,000 | <20 | 100 | N | 5 | >20,000 | N |
| MZ359R | >5,000 | <1.0 | N | N | 100 | 150 | >20,000 | <20 | N | N | 70 | 500 | N |
| MZ359RA | 2,000 | N | N | N | 100 | 150 | 10,000 | <20 | N | N | 70 | 200 | N |
| MZ366R | 700 | 2.0 | N | N | 15 | 50 | 30 | 30 | N | N | 15 | 10 | N |
| MZ403R | 1,000 | 3.0 | N | N | 7 | N | 5 | 50 | N | <20 | 5 | 20 | N |

TABLE 3.--continued

| Sample | Sc-ddm s | Sn-ddm s | Sr-ddm s | V-ddm s | W-ddm s | Y-ddm s | Zn-ddm s | Zr-ddm s | Th-ddm s | AU-ddm aa | Hq-ddm Inst | Tempm aa | Cu-ddm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|-------------|--------------|
| MZ001R | N | N | 200 | 15 | 70 | <10 | N | 50 | V | .10 | .14 | N | 15.0 |
| MZ010R | 15 | N | 700 | 100 | N | 20 | N | 30 | V | <.05 | .02 | N | 5.0 |
| MZ012R | N | N | N | 30 | N | N | N | N | V | 1.50 | .04 | 1.0 | 85.0 |
| MZ012RA | 20 | N | 1,500 | 200 | N | 10 | N | <10 | V | <.05 | .02 | N | 75.0 |
| MZ012RB | 5 | N | N | 300 | N | <10 | N | 10 | V | <.05 | .08 | N | 80.0 |
| MZ012RC | <5 | N | N | 200 | N | <10 | V | N | V | .10 | .08 | N | 4,700.0 |
| MZ012RD | 20 | N | N | 300 | N | 30 | N | 10 | V | 8.00 | .24 | N | >1.0 |
| MZ012RE | 100 | N | N | 500 | N | 10 | 200 | 20 | V | N | N | N | N |
| MZ013R | 30 | N | 1,000 | 300 | N | 20 | N | 50 | V | .05 | .02 | N | 100.0 |
| MZ026R | 30 | N | 2,000 | 150 | N | 20 | N | 50 | V | .05 | .04 | N | 40.0 |
| MZ030R | 5 | N | 1,500 | 100 | N | 10 | N | 15 | V | <.05 | .04 | N | 20.0 |
| MZ044R | <5 | N | 700 | 100 | N | 10 | N | <10 | V | .05 | .02 | N | 10.0 |
| MZ060R | 5 | 10 | N | 10 | N | 100 | N | 300 | V | .05 | .04 | N | <5.0 |
| MZ060RA | N | N | >5,000 | 10 | N | 20 | N | <10 | V | <.05 | 4.00 | N | <5.0 |
| MZ071R | 15 | N | 2,000 | 70 | N | 30 | N | 100 | V | .05 | .04 | N | 45.0 |
| MZ076R | 5 | N | N | 150 | N | 100 | N | 300 | V | .65 | .28 | N | >1.0 |
| MZ076RA | 5 | N | N | 50 | N | 100 | N | 300 | V | <.05 | .02 | N | 130.0 |
| MZ076RB | <5 | N | N | 10 | N | 20 | N | 100 | V | .05 | .04 | N | 20.0 |
| MZ082R | N | N | N | 15 | N | <10 | N | 100 | V | <.05 | .04 | N | <5.0 |
| MZ090R | 20 | 700 | 700 | 1,500 | <50 | 15 | N | 100 | V | .05 | .14 | N | >1.0 |
| MZ099R | 50 | N | 2,000 | 300 | N | 30 | N | 100 | V | .05 | .04 | N | 60.0 |
| MZ102R | <5 | N | N | 150 | N | <10 | N | <10 | V | 8.50 | .04 | N | 130.0 |
| MZ102RA | 7 | N | N | 200 | N | 20 | N | <10 | V | 2.50 | .02 | N | 130.0 |
| MZ102RB | 30 | N | 100 | 500 | N | 20 | N | 30 | V | .20 | .02 | N | >1.0 |
| MZ102RC | 7 | N | <100 | 20 | N | 30 | N | 200 | V | .10 | .04 | N | 10.0 |
| MZ102RD | 15 | N | N | 300 | N | 10 | N | 10 | V | 200.00 | .06 | N | >1.0 |
| MZ103R | 30 | N | 3,000 | 300 | N | 15 | N | 30 | V | .10 | .08 | N | 1,700.0 |
| MZ103RA | 10 | N | 700 | 70 | N | 15 | N | 70 | V | .05 | .04 | N | 190.0 |
| MZ103RB | 5 | N | <100 | 500 | N | 10 | N | 30 | V | .15 | .50 | N | >1.0 |
| MZ107R | 50 | N | 2,000 | 300 | N | 50 | N | 100 | V | N | N | N | N |
| MZ175R | N | <10 | N | <10 | N | 30 | N | 100 | V | <.05 | .35 | .1 | 5.0 |
| MZ249R | N | N | N | 10 | N | N | N | 20 | V | .05 | .02 | N | 140.0 |
| MZ249RA | N | N | N | 15 | N | N | N | <10 | V | .05 | .02 | N | 35.0 |
| MZ269R | N | N | <100 | 200 | N | 20 | N | 100 | V | N | N | N | N |
| MZ269RA | N | N | <100 | 150 | N | 10 | N | 30 | V | N | N | N | N |
| MZ269RB | N | N | N | 10 | N | <10 | N | <10 | V | N | N | N | N |
| MZ357R | <5 | N | N | 30 | N | <10 | N | 20 | V | N | N | N | N |
| MZ358R | 30 | N | 500 | 300 | N | 10 | 5,000 | 100 | V | N | N | N | N |
| MZ358RA | 15 | N | 300 | 100 | N | 10 | >10,000 | 30 | V | N | N | N | N |
| MZ358RB | 10 | N | <100 | 50 | N | <10 | >10,000 | 30 | V | N | N | N | N |
| MZ358RC | 15 | N | 700 | 200 | N | 15 | 7,000 | 50 | V | N | N | N | N |
| MZ359R | 50 | N | N | 500 | N | 70 | N | 20 | V | N | N | N | N |
| MZ359RA | 10 | N | <100 | 300 | N | 20 | N | 30 | V | N | N | N | N |
| MZ366R | 50 | N | <100 | 50 | N | 15 | N | 200 | V | <.05 | .20 | N | 10.0 |
| MZ403R | <5 | N | 150 | 50 | N | 20 | N | 200 | V | N | .02 | 1.1 | <5.0 |

TABLE 3.--continued

| Sample | Pb-dpm 3a | Zn-dpm aa | Ag-dpm aa | Cd-pdm aa | Bi-dpm aa | Sb-dpm aa | As-dpm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| MZ001R | 10 | 15 | .20 | .20 | 1 | 17 | 40 | MnO ₂ fracture fillings on quartzite |
| MZ010R | 10 | 15 | .10 | .05 | 1 | N | N | Altered Greenstone with Fe oxides and pyrite(?) |
| MZ012R | 10 | <5 | 1.05 | .05 | 5 | N | N | Oxidized zone at Ox Bow mine; abundant Fe oxides and some sec. copper |
| MZ012RA | 15 | 40 | .20 | .05 | 1 | N | N | Diorite from the Ox Bow mine |
| MZ012RB | 10 | <5 | 2.60 | .10 | 2 | N | <10 | Massive hematite in Qtz vein |
| MZ012RC | 20 | 30 | .55 | .20 | 2 | N | <10 | Qtz with abundant Fe oxides and some sec. Cu; from mine dump |
| MZ012RD | 25 | 55 | 2.80 | 1.45 | 7 | 7 | 20 | Qtz vein with sec Cu minerals; from Ox Bow mine dump |
| MZ012RE | | | | | | | | Limonite after pyrite sample from placer operation |
| MZ013R | 5 | 30 | .05 | .10 | 1 | N | 10 | Red banded chert from stream bed |
| MZ026R | 20 | 20 | .05 | .10 | 1 | N | 40 | Sandstone with abundant volcanic clasts and CaCO ₃ |
| MZ030R | 25 | 25 | .10 | 1.95 | 2 | N | 20 | Volcanic rocks with yellow oxide surface coatings; from stream bed |
| MZ044R | 15 | 15 | .05 | .80 | 2 | N | N | Silicified granite |
| MZ060R | 5 | <5 | .10 | .10 | 1 | 1 | N | Payson Granite near barite vein |
| MZ060RA | 5 | <5 | .05 | .10 | 2 | N | N | Barite vein with some Fe oxide |
| MZ071R | 10 | 50 | .05 | .10 | 1 | N | N | Fe oxide from volcanic conglomerate contact zone |
| MZ076R | 150 | 15 | 1.00 | .90 | 25 | 12 | 10 | Qtz vein with abundant sec. Cu; in Payson Granite |
| MZ076RA | <5 | <5 | .10 | .05 | 2 | N | N | Payson Granite wall rock with abundant Qtz veins |
| MZ076RB | 5 | <5 | .35 | .05 | 3 | N | N | Qtz vein at mine |
| MZ082R | 10 | <5 | .05 | .05 | 1 | N | N | Qtz vein; as much as 30m wide in fault zone in Payson Granite |
| MZ090R | 520 | 45 | 21.40 | 15.00 | 130 | 144 | >1 | Fe and Mn oxide stained metased with abundant sec. Cu; from prospect pit |
| MZ099R | 15 | 30 | .30 | .30 | 3 | 1 | 30 | Andesite with hornblende phenocrysts; weathered with some Qtz veins |
| MZ102R | 65 | 5 | 2.75 | .15 | 4 | 2 | 10 | Qtz vein in diorite with sec. Cu; from Magie mine |
| MZ102RA | 45 | 5 | 3.15 | .15 | 48 | N | <10 | Qtz vein with sec. Cu minerals; from Wonder mine dump |
| MZ102RB | 10 | 45 | 1.70 | .70 | 26 | N | <10 | Sheared diorite with abundant sec. Cu on fractures; Wonder mine |
| MZ102RC | 45 | 25 | .30 | .20 | 2 | N | N | Altered diorite wall rock; from Wonder mine adit |
| MZ102RD | 10 | 20 | 11.80 | .10 | 29 | 3 | 30 | Qtz vein with abundant sec. Cu; high grade ore from Wonder mine |
| MZ103R | 15 | 65 | 6.40 | .25 | 3 | 4 | 10 | Altered diorite with sec. Cu; from prospect pit |
| MZ103RA | 10 | 20 | .25 | <.05 | 1 | N | <10 | Diorite with Qtz veins and abundant sec. Cu; Copper Belle #1 mine |
| MZ103RB | 10 | 120 | 1.55 | .25 | 15 | 3 | <10 | Black phyllite with abundant sec. Cu; shear zone at Copper Belle #1 mine |
| MZ107R | | | | | | | | Ultra mafic with augite and olivine phenocrysts |
| MZ175R | 5 | 15 | N | <.05 | 4 | N | 10 | Payson Granite with Fe oxides; from near contact with meta-graywacke |
| MZ249R | <5 | <5 | .10 | <.05 | N | N | N | Qtz vein |
| MZ249RA | 5 | <5 | .20 | <.05 | 7 | 2 | N | Fe oxides from Qtz vein |
| MZ269R | | | | | | | | Qtz vein with abundant sec. Cu, Fe oxides, and Cu sulfide; in quartzite |
| MZ269RA | | | | | | | | Qtz vein with abundant sec. Cu and Cu sulfide; in quartzite |
| MZ269RB | | | | | | | | Qtz vein with abundant sec. Cu and Cu sulfide; in Payson Granite |
| MZ357R | | | | | | | | Qtz vein with Fe oxides |
| MZ358R | | | | | | | | Altered schist with Fe oxides and xls of mimetite; from Story mine dump |
| MZ358RA | | | | | | | | Altered schist with Fe oxides and mimetite; from Story mine dump |
| MZ358RB | | | | | | | | Altered schist with white mimetite xls; from Story mine dump |
| MZ358RC | | | | | | | | Dark Fe oxide layer in altered schist; from Story mine area |
| MZ359R | | | | | | | | Sheared and altered greenstone with abundant sec. Cu; from mine dump |
| MZ359RA | | | | | | | | Altered greenstone with abundant Fe oxides and sec. Cu; from mine dump |
| MZ366R | <5 | 20 | N | N | 1 | 1 | 10 | Metasediment; from very old adit |
| MZ403R | <5 | <5 | <.05 | N | N | N | N | Trachyte dike |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. % | Mg-pct. % | Ca-pct. % | Ti-pct. % | Mn-ppm ppm | Ag-ppm ppm | As-ppm ppm | Au-ppm ppm | B-ppm ppm |
|---------|----------|-----------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|
| MZ409R | 34 6 2 | 111 45 18 | 2.00 | .30 | .50 | .300 | 200 | .5 | N | N | 15 |
| MZ414R | 34 10 13 | 111 43 34 | 1.50 | 1.50 | 1.00 | .200 | 1,000 | N | N | N | 20 |
| MZ416R | 34 11 34 | 111 42 58 | 5.00 | 1.50 | 2.00 | .300 | 500 | N | N | N | <10 |
| MZ416RA | 34 11 34 | 111 42 58 | 5.00 | 1.50 | 2.00 | .500 | 500 | N | N | N | <10 |
| MZ417R | 34 11 48 | 111 43 37 | .50 | <.02 | .10 | .020 | 50 | N | N | N | <10 |
| MZ422R | 34 13 5 | 111 43 8 | 1.00 | .10 | .20 | .100 | 700 | N | N | N | 15 |
| MZ422RA | 34 13 5 | 111 43 8 | .70 | <.02 | .20 | .020 | 70 | N | N | N | <10 |
| MZ424R | 34 13 5 | 111 42 48 | .50 | <.02 | .30 | .030 | 100 | N | N | N | 10 |
| MZ424RA | 34 13 5 | 111 42 48 | .30 | <.02 | .20 | .002 | 70 | N | N | N | 10 |
| MZ429R | 34 14 17 | 111 42 35 | <.05 | .70 | >20.00 | <.002 | <10 | N | N | N | N |
| MZ434R | 34 8 20 | 111 33 48 | 1.00 | .05 | .50 | .030 | 100 | N | N | N | 500 |
| MZ435R | 34 8 23 | 111 33 48 | 1.00 | <.02 | .10 | .010 | 100 | N | N | N | 10 |
| MZ435RA | 34 8 29 | 111 34 12 | 10.00 | .20 | <.05 | .050 | 500 | N | N | N | 50 |
| MZ436R | 34 8 16 | 111 33 24 | 3.00 | .15 | <.05 | .050 | 500 | .5 | N | N | 30 |
| MZ436RB | 34 8 32 | 111 33 9 | 7.00 | <.02 | <.05 | .030 | 50 | N | N | N | 150 |
| MZ436RC | 34 8 32 | 111 33 9 | 1.50 | .15 | <.05 | .050 | 200 | N | N | N | 15 |
| MZ436RD | 34 8 35 | 111 33 5 | 3.00 | .15 | <.05 | .050 | 200 | .7 | N | N | 20 |
| MZ436RE | 34 8 35 | 111 33 5 | 1.00 | .10 | <.05 | .030 | 200 | N | N | N | 20 |
| MZ436RF | 34 8 32 | 111 32 58 | 5.00 | .15 | <.05 | .100 | 300 | N | N | N | 30 |
| MZ436RG | 34 8 42 | 111 32 53 | 2.00 | <.02 | <.05 | .007 | 2,000 | .5 | N | N | 10 |
| MZ442R | 34 8 27 | 111 31 47 | 20.00 | 1.00 | .07 | <.002 | <10 | 200.0 | >10,000 | N | 70 |
| MZ442RA | 34 8 27 | 111 31 47 | 10.00 | .30 | <.05 | .005 | 150 | 500.0 | >10,000 | N | 30 |
| MZ442RB | 34 8 27 | 111 31 47 | 20.00 | .70 | .07 | <.002 | 150 | 1,000.0 | >10,000 | N | 50 |
| MZ442RC | 34 8 27 | 111 31 47 | 15.00 | <.02 | .05 | <.002 | <10 | 1,000.0 | >10,000 | N | 50 |
| MZ442RD | 34 3 27 | 111 31 47 | 15.00 | <.02 | <.05 | .015 | 200 | 500.0 | >10,000 | N | 30 |
| MZ442RE | 34 8 27 | 111 31 47 | 15.00 | <.02 | .05 | .010 | 200 | 70.0 | >10,000 | N | 100 |
| MZ442RF | 34 8 26 | 111 31 47 | 15.00 | <.02 | .05 | .005 | 50 | 5,000.0 | >10,000 | N | 50 |
| MZ442RG | 34 8 27 | 111 31 47 | 20.00 | <.02 | .05 | .003 | <10 | 3,000.0 | >10,000 | N | 50 |
| MZ442RH | 34 8 27 | 111 31 47 | 15.00 | <.02 | <.05 | .015 | 70 | 1,000.0 | >10,000 | N | 30 |
| MZ442RI | 34 8 27 | 111 31 47 | 20.00 | <.02 | .05 | .005 | 50 | 1,000.0 | >10,000 | N | 100 |
| MZ445R | 34 7 56 | 111 32 9 | 1.50 | .05 | <.05 | .020 | 150 | 10.0 | 5,000 | N | 15 |
| MZ445RA | 34 7 56 | 111 32 9 | 2.00 | .20 | <.05 | .050 | 200 | 2.0 | N | N | 20 |
| MZ445RB | 34 7 56 | 111 32 9 | 1.00 | .30 | <.05 | .070 | 1,000 | 2.0 | N | N | 30 |
| MZ445RC | 34 7 56 | 111 32 9 | 5.00 | .20 | .05 | .030 | 200 | 2.0 | 200 | N | 30 |
| MZ445RD | 34 8 0 | 111 32 7 | 1.00 | <.02 | <.05 | .007 | 1,000 | 5.0 | N | N | 15 |
| MZ445RE | 34 8 0 | 111 32 7 | 1.00 | .05 | <.05 | .015 | 100 | 1.0 | N | N | 30 |
| MZ445RF | 34 8 5 | 111 32 5 | 1.50 | <.02 | <.05 | .015 | 150 | 1.5 | N | N | 20 |
| MZ447R | 34 8 32 | 111 33 37 | 1.00 | .05 | .07 | .020 | 150 | .5 | N | N | 10 |
| MZ447RA | 34 8 32 | 111 33 37 | 2.00 | .05 | .20 | .030 | 150 | N | N | N | 1,000 |
| MZ447RB | 34 8 32 | 111 33 37 | <.05 | <.02 | <.05 | .002 | 50 | N | N | N | <10 |
| MZ447RC | 34 8 32 | 111 33 37 | 1.50 | .07 | .20 | .020 | 100 | N | N | N | 10 |
| MZ447RD | 34 8 31 | 111 33 45 | 20.00 | .10 | .20 | .030 | >5,000 | 100.0 | N | N | 20 |
| MZ447RE | 34 8 30 | 111 33 38 | 2.00 | .10 | <.05 | .030 | 700 | .5 | N | N | 20 |
| MZ448R | 34 8 41 | 111 33 26 | 1.50 | .15 | <.05 | .020 | 300 | .5 | N | N | 30 |
| MZ448RA | 34 8 41 | 111 33 33 | 2.00 | .15 | <.05 | .020 | 700 | N | N | N | 50 |

TABLE 3.--continued

| Sample | Ba-ppm S | 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 | Sb-ppm S |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MZ409R | 2,000 | 2.0 | N | N | 7 | N | 70 | 100 | 5 | <20 | 5 | 20 | N |
| MZ414R | 300 | 2.0 | N | N | 7 | 20 | 50 | 50 | N | 30 | 15 | 20 | N |
| MZ416R | 2,000 | 1.0 | N | N | 15 | 50 | 50 | 50 | N | 20 | 50 | 15 | N |
| MZ416RA | 2,000 | 1.0 | N | N | 20 | 100 | 50 | 30 | N | N | 50 | 20 | N |
| MZ417R | 100 | 3.0 | N | N | N | N | 5 | 20 | N | <20 | N | 20 | N |
| MZ422R | 2,000 | 2.0 | N | N | N | N | 5 | 50 | N | N | N | 20 | N |
| MZ422RA | 150 | 2.0 | N | N | N | N | 7 | 20 | N | 30 | N | 20 | N |
| MZ424R | 200 | 5.0 | N | N | N | N | 10 | 20 | N | 50 | N | 30 | N |
| MZ424RA | 500 | 5.0 | N | N | N | N | 7 | N | N | 20 | N | 30 | N |
| MZ429R | N | 1.0 | N | N | N | <10 | <5 | 20 | N | <20 | <5 | N | N |
| MZ434R | 100 | 15.0 | N | N | N | N | 5 | 50 | N | <20 | N | 20 | N |
| MZ435R | 200 | 1.5 | N | N | N | N | 5 | 50 | N | 30 | N | 30 | N |
| MZ435RA | 500 | 5.0 | <10 | N | 5 | <10 | 10 | 30 | <5 | 20 | N | 30 | N |
| MZ436R | 700 | 7.0 | <10 | N | N | <10 | 20 | 50 | N | N | N | 50 | N |
| MZ436RB | 20 | 2.0 | <10 | N | N | N | <5 | 30 | N | <20 | N | <10 | N |
| MZ436RC | 700 | 2.0 | N | N | N | N | <5 | 50 | N | <20 | N | <10 | N |
| MZ436RD | 700 | 5.0 | <10 | N | N | 20 | 30 | 30 | N | 20 | N | 20 | N |
| MZ436RE | 500 | 5.0 | N | N | N | N | 15 | 20 | N | <20 | N | <10 | N |
| MZ436RF | 1,000 | 10.0 | <10 | N | N | 30 | 15 | 50 | N | 20 | N | 50 | N |
| MZ436RG | 1,500 | 10.0 | N | N | N | N | 30 | 50 | 5 | <20 | N | 15 | N |
| MZ442R | 200 | 1.0 | 200 | 50 | 10 | N | >20,000 | 30 | 5 | 70 | <5 | 5,000 | 2,000 |
| MZ442RA | 3,000 | 2.0 | 500 | 100 | <5 | N | >20,000 | 70 | 15 | <20 | <5 | 5,000 | 2,000 |
| MZ442RB | 2,000 | 1.5 | 500 | 300 | 10 | N | >20,000 | 30 | 20 | 50 | <5 | 20,000 | >10,000 |
| MZ442RC | 200 | 1.0 | >1,000 | 50 | N | N | >20,000 | 20 | 20 | 50 | <5 | 7,000 | 5,000 |
| MZ442RD | 5,000 | 2.0 | 1,000 | 100 | N | N | >20,000 | 50 | 20 | 20 | <5 | 7,000 | 5,000 |
| MZ442RE | 500 | 2.0 | 150 | <20 | 10 | N | 10,000 | 20 | 20 | 20 | N | 300 | 700 |
| MZ442RF | 300 | 2.0 | >1,000 | <20 | N | N | >20,000 | 100 | 10 | 20 | <5 | 10,000 | 2,000 |
| MZ442RG | 300 | 1.0 | >1,000 | N | N | N | >20,000 | 50 | 20 | 50 | 5 | 2,000 | 3,000 |
| MZ442RH | 200 | 1.5 | 1,000 | N | N | N | >20,000 | 50 | 30 | 30 | <5 | 3,000 | 1,500 |
| MZ442RI | 3,000 | 1.0 | 1,000 | 50 | 5 | N | >20,000 | 20 | 20 | 50 | <5 | 5,000 | 10,000 |
| MZ445R | 500 | 2.0 | 15 | N | N | N | 300 | 30 | 50 | N | N | 70 | N |
| MZ445RA | 1,000 | 3.0 | <10 | N | N | N | 50 | 100 | N | N | N | 30 | N |
| MZ445RB | 1,000 | 3.0 | N | N | N | N | 30 | 50 | N | 20 | N | 20 | N |
| MZ445RC | 300 | 7.0 | 10 | N | N | N | 70 | 50 | N | N | <5 | 30 | N |
| MZ445RD | 200 | 2.0 | 10 | N | N | 20 | 100 | 30 | 30 | N | <5 | 700 | N |
| MZ445RE | 300 | 5.0 | <10 | N | N | N | 20 | 30 | N | N | N | 30 | N |
| MZ445RF | 200 | 5.0 | 20 | N | N | N | 20 | 30 | N | N | N | 70 | N |
| MZ447R | <20 | 5.0 | N | N | N | N | 7 | 20 | N | 30 | N | 50 | N |
| MZ447RA | <20 | 10.0 | N | N | N | N | 7 | 100 | N | 50 | 5 | 10 | N |
| MZ447RB | 20 | 1.0 | N | N | N | N | 7 | 30 | N | N | N | <10 | N |
| MZ447RC | 20 | 3.0 | N | N | N | N | 5 | 20 | N | 30 | N | 15 | N |
| MZ447RD | 2,000 | 5.0 | 50 | N | 5 | N | 2,000 | 50 | N | 50 | N | 150 | N |
| MZ447RE | 500 | 2.0 | N | N | N | 10 | 50 | 50 | N | N | 5 | 15 | N |
| MZ448R | 500 | 5.0 | N | N | N | N | 10 | 30 | N | 20 | N | 15 | N |
| MZ448RA | 300 | 2.0 | <10 | N | N | N | 10 | 30 | N | 50 | N | 20 | N |

TABLE 3.--continued

| Sample | Sc-dpm s | Sn-dpm s | Sr-dpm s | V-dpm s | W-dpm s | Y-dpm s | Zn-dpm s | Zr-dpm s | Th-dpm s | Au-dpm aa | Hg-dpm inst | Te-dpm aa | Cu-dpm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ409R | <5 | N | 200 | 20 | N | 20 | N | 200 | V | N | .02 | 2.2 | 180.0 |
| MZ414R | 5 | N | 200 | 30 | N | 15 | N | 50 | V | N | .02 | 7.3 | 20.0 |
| MZ416R | 10 | N | 300 | 70 | N | 20 | <200 | 70 | V | N | .02 | 2.9 | 30.0 |
| MZ416RA | 10 | N | 300 | 70 | N | 15 | N | 50 | V | N | .02 | 1.4 | 15.0 |
| MZ417R | N | N | N | <10 | N | 30 | N | 30 | V | N | .02 | .6 | <5.0 |
| MZ422R | <5 | N | 100 | <10 | N | 20 | N | 150 | V | N | .04 | .7 | <5.0 |
| MZ422RA | N | N | N | <10 | N | 30 | N | 70 | V | N | .04 | N | 10.0 |
| MZ424R | N | N | N | <10 | N | 70 | N | 100 | <100 | N | .08 | .2 | 10.0 |
| MZ424RA | N | N | N | <10 | N | 70 | N | 100 | <100 | N | .18 | .1 | 10.0 |
| MZ429R | N | N | 200 | <10 | N | N | N | <10 | V | N | N | N | N |
| MZ434R | N | 10 | N | <10 | N | 50 | N | 100 | V | N | N | .3 | <5.0 |
| MZ435R | N | <10 | N | <10 | N | 50 | N | 50 | V | N | N | 1.9 | <5.0 |
| MZ435RA | 5 | 50 | N | 10 | N | 50 | 500 | 150 | V | <.05 | N | 2.7 | N |
| MZ436R | <5 | 200 | N | 10 | N | 30 | 300 | 100 | V | N | N | 1.0 | 10.0 |
| MZ436RB | N | N | N | 10 | N | 30 | <200 | 20 | V | N | N | .8 | N |
| MZ436RC | <5 | N | N | 10 | N | 30 | N | 100 | V | <.05 | N | N | <5.0 |
| MZ436RD | N | 100 | N | 20 | N | 20 | 300 | 150 | V | <.05 | <.02 | 2.6 | 10.0 |
| MZ436RE | N | 300 | N | 10 | N | 15 | 200 | 70 | V | N | N | N | <5.0 |
| MZ436RF | <5 | 70 | N | 10 | N | 30 | 300 | 300 | V | <.05 | N | .5 | 5.0 |
| MZ436RG | N | N | N | 50 | N | 70 | N | 20 | V | N | <.02 | N | 15.0 |
| MZ442R | N | 50 | N | <10 | N | N | 1,000 | 10 | V | .05 | 38.00 | 9.3 | 69,000.0 |
| MZ442RA | N | 300 | 200 | 50 | N | 10 | 3,000 | 30 | <100 | .10 | .20 | 1.3 | 5,400.0 |
| MZ442RB | N | >1,000 | <100 | 10 | N | <10 | 10,000 | <10 | V | .10 | 90.00 | 5.5 | 77,000.0 |
| MZ442RC | N | 200 | 100 | 10 | N | <10 | 1,000 | 30 | V | .15 | 13.00 | 9.4 | 38,000.0 |
| MZ442RD | N | 300 | 150 | 15 | <50 | 20 | 5,000 | <10 | 200 | .05 | 50.00 | 7.5 | 58,000.0 |
| MZ442RE | N | 70 | N | 10 | N | 20 | 2,000 | 20 | 100 | .05 | .60 | 3.6 | 1,600.0 |
| MZ442RF | N | 300 | 200 | 10 | N | <10 | 700 | 50 | <100 | .15 | 1.50 | 12.0 | 35,000.0 |
| MZ442RG | N | 300 | 150 | 10 | N | N | 300 | 30 | <100 | .20 | 9.00 | 13.0 | 24,000.0 |
| MZ442RH | N | 200 | 150 | 10 | N | 30 | 500 | 30 | 200 | .05 | .60 | 11.0 | 11,000.0 |
| MZ442RI | N | 150 | N | 15 | N | <10 | 2,000 | 20 | 100 | .10 | 24.00 | 10.0 | 27,000.0 |
| MZ445R | N | 10 | N | 10 | N | 10 | N | 200 | 150 | N | .02 | .7 | 160.0 |
| MZ445RA | <5 | N | N | 15 | N | 50 | 200 | 30 | <100 | <.05 | N | .4 | 5.0 |
| MZ445RB | N | <10 | N | 10 | N | 70 | 200 | 50 | V | .02 | .02 | .5 | <5.0 |
| MZ445RC | N | 100 | N | 10 | N | 20 | 500 | 100 | V | <.05 | <.02 | .6 | 30.0 |
| MZ445RD | N | 30 | N | 50 | N | 10 | 300 | 300 | V | <.05 | .08 | .6 | 260.0 |
| MZ445RE | N | 15 | N | 10 | N | 50 | 300 | 100 | V | <.05 | <.02 | .4 | 25.0 |
| MZ445RF | <5 | 50 | N | 10 | N | 15 | <200 | 70 | N | N | .08 | .6 | 55.0 |
| MZ447R | N | <10 | N | <10 | N | 20 | N | 50 | V | N | <.02 | .5 | <5.0 |
| MZ447RA | N | 10 | N | <10 | N | 70 | N | 300 | V | N | <.02 | N | <5.0 |
| MZ447RB | N | N | N | <10 | N | <10 | N | N | <100 | <.05 | N | N | <5.0 |
| MZ447RC | N | 10 | N | <10 | N | 50 | N | 100 | V | <.05 | N | .6 | <5.0 |
| MZ447RD | N | 30 | 150 | 10 | N | 50 | 2,000 | 100 | V | N | .16 | 6.5 | 1,300.0 |
| MZ447RE | N | 70 | N | 15 | N | 50 | 300 | 100 | V | <.05 | <.02 | .6 | 35.0 |
| MZ448R | N | 10 | N | 15 | N | 50 | <200 | 50 | V | <.05 | <.02 | .4 | <5.0 |
| MZ448RA | N | 10 | N | 20 | N | 70 | <200 | 200 | V | <.05 | .02 | .5 | <5.0 |

TABLE 3.--continued

| Sample | Pb-dpm aa | Zn-dpm aa | Ay-dpm aa | Cd-dpm aa | Bi-dpm aa | Sub-dpm aa | As-dpm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|---|
| MZ409R | 10 | 30 | .40 | .05 | 1 | 1 | N | Monzonite from Tangle Creek |
| MZ414R | <5 | 10 | N | .05 | <1 | 11 | N | Tuff with relic biotite, qtz "eyes", and numerous basalt fragments |
| MZ416R | 5 | 40 | <.05 | <.05 | <1 | 2 | 30 | Tuff; green stains along joints and fractures |
| MZ416RA | <5 | 25 | <.05 | N | <1 | 2 | N | Tuff |
| MZ417R | 5 | <5 | N | N | <1 | 2 | N | Aplite dike |
| MZ422R | 10 | 40 | N | <.05 | <1 | N | 10 | Payson Granite; weathered |
| MZ422RA | 10 | 15 | <.05 | N | <1 | 1 | <10 | Aplitic phase of the Payson Granite |
| MZ424R | 20 | 25 | <.05 | .05 | <1 | N | 10 | Aplitic phase of the Payson Granite |
| MZ424RA | 25 | 15 | <.05 | N | <1 | 1 | 10 | Payson Granite; coarse grained |
| MZ429R | N | 5 | N | <.05 | <1 | 1 | <10 | Calcite float from stream bed |
| MZ434R | <5 | 15 | N | N | <1 | 1 | N | Payson Granite with tourmaline and fluorite; float from stream bed |
| MZ435R | 10 | 10 | N | N | <1 | 1 | N | Payson Granite with bladed xls (arfesonite?); float from stream bed |
| MZ435RA | 5 | 20 | N | N | <1 | 4 | <10 | Silicified granite with abundant Fe oxides; float from stream bed |
| MZ436R | 10 | 15 | .10 | N | <1 | 2 | <10 | Griessen material with dark Fe oxides; float from stream bed |
| MZ436RB | <5 | <5 | N | N | <1 | 3 | 10 | Qtz vein with black xls (tourmaline?) |
| MZ436RC | <5 | <5 | N | N | <1 | 2 | <10 | Payson Granite; coarse phase |
| MZ436RD | 10 | 10 | .10 | N | <1 | 3 | <10 | Greisen zone in Payson Granite with abundant qtz |
| MZ436RE | <5 | 5 | .10 | .10 | 2 | 11 | N | Breccia dike with altered Payson Granite clasts; altered feldspars |
| MZ436RF | <5 | 10 | .05 | .05 | 3 | 8 | N | Breccia dike with altered Payson Granite clasts |
| MZ436RG | 15 | 20 | .10 | .15 | 2 | 7 | 40 | Breccia from zone 30m wide with abundant vuggy qtz veins and Fe oxides |
| MZ442R | 3,000 | 2,400 | 435.00 | 90.00 | 1,600 | >1 | >1 | Silver sulfide (arsenopyrite), pyrite, and chalcopyrite; Stingy Lady mine |
| MZ442RA | 8,300 | 400 | 135.00 | 25.00 | 680 | >1 | >1 | Arsenopyrite and other sulfide minerals; Stingy Lady mine dump |
| MZ442RB | 30,000 | 7,800 | 575.00 | 170.00 | 4,300 | >1 | >1 | Ore from Stingy Lady mine dump |
| MZ442RC | 6,500 | 950 | 790.00 | 20.00 | 2,200 | >1 | >1 | Secondary As mineralization (scorodite) from Stingy Lady mine dump |
| MZ442RD | 4,700 | 2,100 | 450.00 | 60.00 | 1,300 | >1 | >1 | Secondary As minerals from Stingy Lady mine dump |
| MZ442RE | 200 | 140 | 45.00 | 15.00 | 130 | >1 | >1 | Qtz vein 12cm thick in Payson Granite |
| MZ442RF | 7,800 | 800 | 8,300.00 | 30.00 | 4,600 | >1 | >1 | Ore from Stingy Lady mine upper dump |
| MZ442RG | 1,600 | 60 | 4,400.00 | 2.70 | 3,500 | >1 | >1 | Secondary As minerals from Stingy Lady mine; upper dump |
| MZ442RH | 1,300 | 290 | 1,100.00 | 5.00 | 1,600 | >1 | >1 | Secondary As minerals from Stingy Lady mine; upper dump |
| MZ442RI | 4,900 | 900 | 460.00 | 25.00 | 730 | >1 | >1 | Scorodite from Stingy Lady mine; upper dump |
| MZ445R | 30 | 10 | 3.90 | .20 | 7 | 34 | 320 | Payson Granite; fine grained with qtz flooding and Fe oxides |
| MZ445RA | <5 | 5 | .20 | .05 | 1 | 4 | 20 | Payson Granite; coarse grained |
| MZ445RB | <5 | 5 | .20 | .05 | 1 | 3 | 10 | Purple mineral; soft, dense, in shear zones with qtz |
| MZ445RC | 10 | 15 | .85 | .05 | 9 | 48 | 60 | Qtz breccia zone in Payson Granite; abundant Fe oxides |
| MZ445RD | 8,800 | 40 | 1.40 | .65 | 10 | 42 | 120 | Qtz flooded Payson Granite; yellow surface coating on fractures |
| MZ445RE | 25 | 25 | .70 | .10 | 3 | 4 | 40 | Pale green mineral; soft, dense, in shear zone with Qtz |
| MZ445RF | 65 | 30 | 2.00 | .45 | 60 | 17 | 80 | Payson Granite; Fe oxide altered |
| MZ447R | 5 | 5 | .10 | N | N | 1 | N | Aplitic phase of the Payson Granite |
| MZ447RA | 5 | 10 | <.05 | N | N | 1 | N | Tourmaline rich qtz zone in Payson Granite |
| MZ447RB | <5 | <5 | .05 | N | N | N | N | Qtz vein with dark green stains (chlorite?) |
| MZ447RC | <5 | 5 | .10 | N | N | 1 | <10 | Aplitic phase of Payson Granite; biotite altered to chlorite, tourmaline? |
| MZ447RD | 80 | 3,200 | 20.00 | 25.00 | N | 3 | 10 | Greisen zone with some sulfide minerals |
| MZ447RE | 5 | 80 | .25 | .30 | N | 1 | 10 | Qtz rich material from shear zone |
| MZ448R | <5 | 15 | .05 | N | N | 4 | 10 | Qtz vein in Payson Granite |
| MZ448RA | <5 | 5 | .10 | <.05 | N | 3 | 20 | Payson Granite |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. % | Mg-pct. % | Ca-pct. % | Ti-pct. % | Mn-pptm % | Ag-pptm % | As-pptm % | Au-pptm % | B-pptm % |
|----------|----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| MZ448RB | 34 8 41 | 111 33 26 | 2.00 | .20 | <.05 | .030 | 150 | N | N | N | 15 |
| MZ448RC | 34 8 41 | 111 33 26 | 10.00 | <.02 | .15 | .010 | 70 | 1.0 | N | N | 20 |
| MZ448RD | 34 8 41 | 111 33 33 | 7.00 | .30 | <.05 | .020 | 2,000 | 1.5 | N | N | 15 |
| MZ448RE | 34 8 41 | 111 33 33 | .70 | .10 | .15 | .020 | 200 | N | N | N | 10 |
| MZ448RF | 34 8 37 | 111 33 46 | 1.00 | .05 | .10 | .020 | 150 | N | N | N | 10 |
| MZ448RG | 34 8 43 | 111 33 46 | 15.00 | .20 | .15 | .007 | >5,000 | 50.0 | N | N | 100 |
| MZ448RH | 34 8 43 | 111 33 45 | 10.00 | <.02 | <.05 | .030 | 1,500 | .5 | N | N | 30 |
| MZ449R | 34 8 14 | 111 31 57 | 10.00 | .05 | .07 | .005 | 1,500 | .5 | N | N | 20 |
| MZ449RA | 34 8 14 | 111 31 57 | 3.00 | .02 | <.05 | .005 | >5,000 | 1.0 | N | N | 20 |
| MZ449RB | 34 8 16 | 111 32 0 | 3.00 | .07 | .20 | .200 | 1,000 | 15.0 | N | N | 20 |
| MZ449RC | 34 8 22 | 111 31 46 | 3.00 | .07 | <.05 | .200 | 2,000 | 1.5 | N | N | 30 |
| MZ449RD | 34 8 22 | 111 31 46 | 3.00 | .10 | .07 | .150 | 1,000 | 1.0 | N | N | 30 |
| MZ449RE | 34 8 22 | 111 31 46 | 15.00 | .10 | .07 | .050 | 2,000 | 10.0 | N | N | >2,000 |
| MZ450RA | 34 8 38 | 111 33 35 | 1.00 | .05 | .20 | .020 | 100 | N | N | N | 30 |
| MZ450RB | 34 8 38 | 111 33 35 | 1.00 | .05 | .30 | .020 | 70 | N | N | N | 15 |
| MZ450RC | 34 8 38 | 111 33 35 | 1.00 | .10 | .20 | .030 | 70 | N | N | N | 10 |
| MZ450RD | 34 8 38 | 111 33 35 | 1.00 | .07 | .30 | .030 | 50 | N | N | N | 15 |
| MZ450RE | 34 8 38 | 111 33 35 | 1.00 | .20 | .10 | .030 | 100 | N | N | N | 20 |
| MZ450RF | 34 8 38 | 111 33 35 | .70 | .10 | .07 | .030 | 200 | N | N | N | 10 |
| MZ450RG1 | 34 8 38 | 111 33 35 | .70 | .05 | .10 | .020 | 70 | N | N | N | 15 |
| MZ450RG2 | 34 8 38 | 111 33 35 | .70 | .07 | .15 | .030 | 100 | 1.5 | N | N | 10 |
| MZ450RG3 | 34 8 38 | 111 33 35 | .70 | .10 | .15 | .020 | 150 | 1.0 | N | N | 15 |
| MZ450RG4 | 34 8 38 | 111 33 35 | .70 | .10 | .30 | .030 | 100 | .7 | N | N | 10 |
| MZ450RH | 34 8 38 | 111 33 35 | .70 | .15 | .30 | .030 | 200 | N | N | N | 15 |
| MZ450RI | 34 8 38 | 111 33 35 | .50 | .05 | .15 | .020 | 70 | N | N | N | 15 |
| MZ450RJ | 34 8 38 | 111 33 35 | 1.00 | .07 | .30 | .050 | 100 | N | N | N | 10 |
| MZ450RK | 34 8 38 | 111 33 35 | 1.00 | .10 | .30 | .030 | 100 | N | N | N | 10 |
| MZ450RL | 34 8 38 | 111 33 35 | .70 | .05 | .30 | .020 | 70 | N | N | N | 10 |
| MZ450RM | 34 8 38 | 111 33 35 | .70 | .05 | .07 | .050 | 150 | N | N | N | 10 |
| MZ450RN | 34 9 38 | 111 33 35 | .70 | .05 | .30 | .030 | 70 | N | N | N | 10 |
| MZ451R | 34 6 17 | 111 31 48 | 1.00 | <.02 | <.05 | <.002 | <10 | 50.0 | N | N | 30 |
| MZ451RA | 34 6 16 | 111 31 49 | .15 | <.02 | <.05 | .003 | <10 | 7.0 | 300 | N | 15 |
| MZ451RB | 34 6 21 | 111 31 44 | 2.00 | .10 | <.05 | .070 | 200 | N | N | N | 20 |
| MZ451RC | 34 6 21 | 111 31 44 | 1.50 | .10 | <.05 | .070 | 200 | N | N | N | 20 |
| MZ452R | 34 8 15 | 111 38 26 | .15 | .02 | <.05 | .005 | 50 | 3.0 | N | N | 20 |
| MZ452RA | 34 8 15 | 111 38 26 | 1.50 | .07 | .07 | .100 | 200 | 2.0 | N | N | 100 |
| MZ452RB | 34 8 15 | 111 38 26 | 1.00 | .15 | <.05 | .030 | 150 | N | N | N | 50 |
| MZ452RC | 34 8 15 | 111 38 26 | <.05 | <.02 | .07 | <.002 | 20 | 150.0 | N | N | 15 |
| MZ452RD | 34 8 15 | 111 38 26 | .20 | .02 | .05 | .005 | 30 | 20.0 | N | N | 50 |
| MZ453R | 34 9 32 | 111 12 19 | 15.00 | 1.00 | 2.00 | .100 | 1,000 | 10.0 | 200 | N | 50 |
| MZ453RA | 34 9 32 | 111 12 19 | 7.00 | 1.00 | 2.00 | .300 | 1,500 | 1.0 | N | N | 10 |
| MZ453RB | 34 9 32 | 111 12 19 | 10.00 | .70 | 2.00 | .150 | 1,000 | 10.0 | 500 | N | 30 |
| MZ454R | 34 12 41 | 111 33 19 | 15.00 | .15 | 3.00 | <.002 | 50 | 2,000.0 | >10,000 | N | 30 |
| MZ454RA | 34 12 41 | 111 33 19 | 10.00 | .10 | 1.50 | .100 | 50 | 200.0 | >10,000 | N | 30 |
| MZ454RB | 34 12 41 | 111 33 19 | 20.00 | .15 | 3.00 | .070 | 100 | 300.0 | >10,000 | N | 30 |

TABLE 3.--continued

| Sample | Ba-ppm s | 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 | Sb-ppm s |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MZ448RB | 1,000 | 1.5 | N | N | N | N | 10 | 50 | N | N | N | 20 | N |
| MZ448RC | <20 | 2.0 | <10 | N | N | N | 15 | 30 | N | 70 | N | 30 | N |
| MZ448RD | 700 | 5.0 | 10 | N | 7 | N | 100 | 30 | N | 50 | 5 | 70 | N |
| MZ448RE | 200 | 2.0 | N | N | N | N | 7 | 20 | N | 20 | N | 15 | N |
| MZ448RF | 20 | 5.0 | N | N | N | N | 7 | 20 | N | 20 | 7 | 20 | N |
| MZ448RG | >5,000 | 10.0 | 15 | N | 50 | 10 | 200 | 100 | 15 | 20 | 20 | 150 | N |
| MZ448RH | 200 | 1.0 | <10 | N | N | N | 15 | 50 | N | 50 | N | <10 | N |
| MZ449R | 70 | 2.0 | 10 | N | 5 | N | 15 | 50 | N | <20 | 7 | 50 | N |
| MZ449RA | 700 | 7.0 | N | N | 7 | N | 30 | 70 | 7 | N | 5 | 1,000 | N |
| MZ449RB | 700 | 5.0 | <10 | N | 5 | <10 | 50 | 100 | 5 | 20 | 10 | 200 | N |
| MZ449RC | 700 | 5.0 | <10 | N | N | N | 70 | 70 | 5 | <20 | 5 | 300 | N |
| MZ449RD | 2,000 | 7.0 | <10 | N | N | N | 30 | 70 | <5 | 20 | 5 | 700 | N |
| MZ449RE | 500 | 7.0 | 10 | N | N | N | 300 | 100 | N | N | 5 | 1,500 | N |
| MZ450RA | 50 | 5.0 | N | N | N | N | 7 | 30 | N | N | N | 50 | N |
| MZ450RB | 50 | 5.0 | N | N | N | N | 5 | 30 | N | 20 | N | 30 | N |
| MZ450RC | 50 | 5.0 | N | N | N | N | 5 | 30 | N | 20 | N | 15 | N |
| MZ450RD | 50 | 5.0 | N | N | N | N | 5 | 50 | N | 30 | N | 20 | N |
| MZ450RE | 50 | 5.0 | N | N | N | N | <5 | 50 | N | 30 | N | 20 | N |
| MZ450RF | 100 | 3.0 | N | N | N | N | 15 | 30 | N | 20 | <5 | 15 | N |
| MZ450RG1 | 20 | 5.0 | N | N | N | N | 5 | 50 | N | <20 | N | 20 | N |
| MZ450RG2 | 200 | 7.0 | N | N | N | N | 5 | 50 | N | 20 | N | 50 | N |
| MZ450RG3 | 150 | 7.0 | N | N | N | N | 5 | 50 | N | 50 | 5 | 30 | N |
| MZ450RG4 | 200 | 2.0 | N | N | N | N | 10 | 100 | N | 20 | N | 50 | N |
| MZ450RH | 100 | 5.0 | N | N | N | N | <5 | 100 | N | 20 | N | 30 | N |
| MZ450RI | 100 | 7.0 | N | N | N | N | <5 | 70 | N | 20 | N | 50 | N |
| MZ450RJ | 50 | 5.0 | N | N | N | N | <5 | 100 | N | 70 | N | 50 | N |
| MZ450RK | 50 | 5.0 | N | N | N | N | 5 | 70 | N | 20 | N | 50 | N |
| MZ450RL | 20 | 5.0 | N | N | N | N | <5 | 70 | N | <20 | N | 50 | N |
| MZ450RM | 20 | 5.0 | N | N | N | N | 7 | 30 | N | 20 | N | 50 | N |
| MZ450RN | 20 | 5.0 | N | N | N | N | <5 | 30 | N | 20 | N | 50 | N |
| MZ451R | >5,000 | 7.0 | 100 | N | N | <10 | >20,000 | 50 | N | <20 | 5 | 10 | N |
| MZ451RA | 700 | 10.0 | 150 | N | N | 10 | >20,000 | 70 | N | <20 | 5 | 20 | 150 |
| MZ451RB | 300 | 5.0 | <10 | N | N | N | 500 | 50 | N | 20 | N | 15 | N |
| MZ451RC | 300 | 5.0 | N | N | <5 | N | 70 | 50 | N | 20 | 5 | 20 | N |
| MZ452R | 1,000 | 3.0 | 10 | N | N | N | 7,000 | 30 | 20 | N | <5 | 15 | 150 |
| MZ452RA | 150 | 20.0 | 10 | N | 5 | N | 3,000 | 150 | N | 30 | 5 | 50 | <100 |
| MZ452RB | 150 | 5.0 | N | N | N | N | 50 | 50 | N | <20 | N | 10 | N |
| MZ452RC | 2,000 | 1.5 | 70 | N | N | 20 | >20,000 | 70 | N | <20 | 5 | 15 | 2,000 |
| MZ452RD | 2,000 | 10.0 | 150 | N | N | <10 | >20,000 | 50 | N | <20 | <5 | 500 | N |
| MZ453R | 20 | 1.0 | <10 | N | 30 | 15 | >20,000 | 30 | 10 | N | 15 | 1,000 | N |
| MZ453RA | 500 | 1.0 | N | N | 30 | 20 | 2,000 | 30 | N | N | 15 | 20 | N |
| MZ453RB | 150 | 1.0 | N | N | 30 | 20 | >20,000 | 30 | 15 | N | 20 | 200 | N |
| MZ454R | 100 | 1.0 | >1,000 | 50 | 30 | 15 | >20,000 | 30 | 10 | 20 | 15 | 2,000 | 5,000 |
| MZ454RA | 300 | 1.0 | >1,000 | 100 | 15 | 20 | >20,000 | 30 | 15 | <20 | 15 | 15,000 | 5,000 |
| MZ454RB | 300 | <1.0 | >1,000 | 200 | 20 | 30 | >20,000 | 20 | 10 | N | 15 | 10,000 | 5,000 |

TABLE 3.--continued

| Sample | 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 | Au-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|----------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ448RB | <5 | 20 | N | 20 | N | 30 | 500 | 100 | V | <.05 | N | .2 | <5.0 |
| MZ448RC | <5 | N | N | 10 | N | 50 | 200 | 50 | V | N | N | 1.0 | <5.0 |
| MZ448RD | N | 10 | N | 10 | N | 30 | 700 | 100 | V | N | <.02 | 1.2 | 110.0 |
| MZ448RE | N | <10 | N | 10 | N | 50 | <200 | 70 | V | N | N | .7 | <5.0 |
| MZ448RF | N | <10 | N | 10 | N | 50 | N | 300 | V | N | N | .5 | <5.0 |
| MZ448RG | N | 100 | 200 | 70 | N | 500 | 200 | 30 | V | N | .10 | 1.6 | 240.0 |
| MZ448RH | N | N | N | 10 | N | 30 | 200 | 50 | V | N | .20 | 6.3 | 5.0 |
| MZ449R | N | 50 | N | 10 | N | 100 | 500 | 20 | V | <.05 | .06 | .1 | 10.0 |
| MZ449RA | <5 | 30 | N | <10 | N | 50 | 700 | 30 | V | N | .14 | N | 15.0 |
| MZ449RB | 5 | 200 | N | <10 | N | 50 | 500 | 200 | V | N | .06 | N | 40.0 |
| MZ449RC | N | 70 | N | <10 | N | 50 | 500 | 200 | V | N | .55 | N | 70.0 |
| MZ449RD | <5 | 200 | N | <10 | N | 50 | 500 | 300 | V | N | .28 | .1 | 35.0 |
| MZ449RE | 5 | 500 | N | <10 | N | 100 | 1,500 | 300 | V | N | .20 | .1 | 270.0 |
| MZ450RA | N | 20 | 100 | 10 | N | 50 | N | 150 | V | N | .02 | N | 10.0 |
| MZ450RB | N | 15 | N | <10 | N | 30 | N | 50 | V | N | .02 | N | 10.0 |
| MZ450RC | N | 15 | N | <10 | N | 70 | N | 70 | V | N | .02 | .1 | 5.0 |
| MZ450RD | N | <10 | N | <10 | N | 50 | N | 50 | V | N | .02 | N | 5.0 |
| MZ450RE | N | N | N | <10 | N | 50 | N | 100 | V | N | .02 | N | 10.0 |
| MZ450RF | N | N | N | <10 | N | 30 | N | 50 | V | N | .02 | N | 10.0 |
| MZ450RG1 | N | N | N | <10 | N | 30 | N | 50 | V | N | .02 | N | 10.0 |
| MZ450RG2 | N | N | N | <10 | N | 50 | N | 70 | V | N | .12 | N | 5.0 |
| MZ450RG3 | N | 10 | N | <10 | N | 70 | N | 150 | V | .05 | .02 | N | 5.0 |
| MZ450RG4 | N | N | N | <10 | N | 70 | N | 100 | V | N | .04 | N | 5.0 |
| MZ450RH | N | N | N | <10 | N | 50 | N | 100 | V | N | .12 | .1 | 5.0 |
| MZ450RI | N | N | N | <10 | N | 30 | N | 70 | V | <.05 | <.02 | N | 5.0 |
| MZ450RJ | N | 10 | N | <10 | N | 70 | N | 70 | V | N | .02 | N | 5.0 |
| MZ450RK | N | 10 | N | <10 | N | 50 | N | 100 | V | N | .02 | N | 5.0 |
| MZ450RL | N | <10 | N | <10 | N | 50 | N | 50 | V | N | .04 | N | 5.0 |
| MZ450RM | N | <10 | N | <10 | N | 20 | N | 70 | V | N | <.02 | N | 10.0 |
| MZ450RN | N | N | N | <10 | N | 50 | N | 70 | V | N | N | N | 5.0 |
| MZ451R | N | N | N | 10 | N | N | N | <10 | V | .20 | .18 | 2.5 | >1.0 |
| MZ451RA | N | 10 | 200 | <10 | N | N | <200 | 20 | V | .95 | .30 | 2.3 | >1.0 |
| MZ451RB | <5 | 300 | <100 | <10 | N | 30 | <200 | 100 | V | N | .12 | N | 110.0 |
| MZ451RC | <5 | 100 | N | <10 | 50 | 70 | N | 150 | V | N | .02 | .1 | 40.0 |
| MZ452R | N | N | N | <10 | <50 | 15 | N | 30 | V | N | .22 | N | >1.0 |
| MZ452RA | 5 | N | N | 50 | N | 50 | <200 | 200 | V | N | .02 | .1 | 450.0 |
| MZ452RB | <5 | N | N | 15 | N | 50 | <200 | 150 | V | N | .02 | N | 55.0 |
| MZ452RC | N | N | N | 10 | N | N | N | <10 | V | .60 | 18.00 | 1.5 | >1.0 |
| MZ452RD | N | N | N | 100 | N | 10 | <200 | 30 | V | 2.00 | 1.30 | .9 | >1.0 |
| MZ453R | 15 | N | N | 200 | N | 20 | 500 | 20 | 30J | N | .26 | 1.5 | >1.0 |
| MZ453RA | 20 | <10 | 100 | 200 | N | 15 | 200 | 50 | 30J | N | N | N | 710.0 |
| MZ453RB | 15 | <10 | 300 | 200 | N | 20 | 200 | 30 | 50J | N | .26 | .5 | >1.0 |
| MZ454R | N | >1,000 | 200 | 30 | N | N | 1,000 | 10 | <10J | .20 | .45 | N | >1.0 |
| MZ454RA | N | >1,000 | 150 | 50 | N | <10 | 500 | 15 | <10J | .50 | .30 | 1.3 | >1.0 |
| MZ454RB | <5 | 1,000 | 1,500 | 100 | N | 15 | 1,000 | 30 | N | .25 | .60 | 2.5 | >1.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--|-----------------------------|
| MZ448RB | 5 | 15 | .10 | N | N | 1 | N Payson Granite; coarse grained | |
| MZ448RC | 10 | 5 | .20 | N | N | 1 | 10 Qtz vein in Payson Granite | |
| MZ448RD | 95 | 180 | .30 | N | N | 1 | <10 Qtz vein | |
| MZ448RE | <5 | 5 | <.05 | N | N | 1 | N Payson Granite; Fe oxide alteration with Qtz veins | |
| MZ448RF | <5 | <5 | .05 | <.05 | 1 | 1 | N Payson Granite; Fe oxide altered, medium grained, with chloritized biotite | |
| MZ448RG | 140 | 80 | .10 | 2.20 | 20 | 91 | 40 Manganese nodules; float from stream bed | |
| MZ448RH | <5 | <5 | <.05 | .10 | 2 | 4 | 20 Qtz vein with some sulfides; float from stream bed | |
| MZ448RI | 45 | 20 | .15 | .20 | N | 14 | 40 Fe oxide fracture fillings from shear zone | |
| MZ448RII | 910 | 130 | .45 | 2.15 | N | 19 | 40 Qtz vein; 2.5 to 7.5cm wide with Fe and Mn oxides | |
| MZ448RIII | 290 | 690 | 18.00 | .30 | 1 | 1 | 10 Dike rock; Fe oxide rich with pyrite relics and some fresh sulfides | |
| MZ449RC | 310 | 530 | 1.10 | .40 | 1 | 2 | 20 Greisen in Payson Granite; some oxidized pyrite; float sample on hillside | |
| MZ449RD | 380 | 630 | .45 | .60 | N | 1 | 40 Greisen in Payson Granite | |
| MZ449RE | 1,400 | 1,200 | 8.20 | 6.30 | N | 13 | 160 Payson Granite; coarse grained, Fe oxide altered, abundant tourmaline | |
| MZ450RA | 25 | 10 | .10 | .10 | 1 | 1 | <10 Payson Granite | |
| MZ450RB | 30 | 15 | <.05 | <.05 | N | N | <10 Payson Granite | |
| MZ450RC | 30 | 5 | <.05 | <.05 | N | 1 | N Payson Granite | |
| MZ450RD | 35 | 10 | <.05 | <.05 | 1 | 1 | <10 Payson Granite | |
| MZ450RE | 30 | 10 | <.05 | N | 1 | 2 | 40 Payson Granite | |
| MZ450RF | 35 | 10 | <.05 | .05 | 1 | 1 | <10 Payson Granite | |
| MZ450RG1 | 35 | 5 | <.05 | <.05 | 1 | 1 | 10 Payson Granite | |
| MZ450RG2 | 40 | 5 | .15 | <.05 | 1 | 1 | 20 Payson Granite | |
| MZ450RG3 | 45 | 5 | .10 | .05 | 1 | 1 | 10 Payson Granite | |
| MZ450RG4 | 45 | 5 | .15 | <.05 | 1 | 1 | 10 Payson Granite | |
| MZ450RH | 50 | 30 | <.05 | <.05 | 1 | 1 | 10 Payson Granite | |
| MZ450RI | 55 | 20 | <.05 | <.05 | N | 1 | <10 Payson Granite | |
| MZ450RJ | 55 | 20 | <.05 | <.05 | 1 | 1 | <10 Payson Granite | |
| MZ450RK | 55 | 25 | <.05 | N | N | 1 | <10 Payson Granite | |
| MZ450RL | 55 | 20 | <.05 | N | N | 1 | N Payson Granite | |
| MZ450RM | 50 | 20 | <.05 | .05 | 1 | 1 | N Payson Granite | |
| MZ450RN | 50 | 15 | <.05 | <.05 | N | 1 | <10 Payson Granite | |
| MZ451R | 25 | 30 | .15 | .20 | 7 | 4 | 120 Sulfide ore in vein in Payson Granite; from trench | |
| MZ451RA | 55 | 30 | 8.00 | .40 | 280 | 78 | 200 Sulfide ore in vein in Payson Granite; from prospect pit | |
| MZ451RB | 25 | 15 | <.05 | <.05 | 3 | 3 | 10 Payson Granite; feldspars being replaced by Fe oxides | |
| MZ451RC | 20 | 15 | N | <.05 | N | 1 | 20 Payson Granite; feldspars being replaced by Fe oxides | |
| MZ452R | 30 | 20 | 1.30 | .25 | 7 | 75 | 80 Qtz vein with primary and sec. Cu; from Los Conquistador mine dump | |
| MZ452RA | 25 | 10 | .20 | <.05 | 4 | 45 | 160 Fault gouge from adit | |
| MZ452RB | 15 | 10 | .20 | <.05 | 1 | 3 | 30 Green mineral (epidote?) from adit | |
| MZ452RC | 20 | 50 | >1.00 | .15 | 4 | >1 | 200 Cu ore; primary and sec.; from Qtz vein 0.6m wide at prospect pit | |
| MZ452RD | 460 | 40 | 18.20 | .35 | 65 | 34 | 120 Qtz vein with disseminated Cu sulfide and sec. Cu; from upper mine dump | |
| MZ453R | 950 | 290 | 11.00 | 8.15 | 6 | 13 | 300 Cu ore; primary and sec.; in prospect pit in metasediments on Bullfrog Ridge | |
| MZ453RA | 15 | 140 | .15 | .05 | N | 1 | 60 Altered metasediments with green sec. minerals | |
| MZ453RB | 170 | 75 | 11.00 | .45 | 6 | 4 | 400 Altered metasediments with abundant sec. Cu | |
| MZ454R | >1 | 610 | >1.00 | 20.00 | >1 | >1 | >1 Altered metasediments with some sec. Cu and possible sulfides | |
| MZ454RA | >1 | 440 | >1.00 | 40.00 | >1 | >1 | >1 Very altered vein material from prospect pit; soft, green stained | |
| MZ454RB | >1 | 320 | >1.00 | >1.00 | >1 | >1 | >1 Very altered vein material from prospect pit in metasediments; Fe oxides | |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. % | Mg-pct. % | Ca-pct. % | Ti-pct. % | Mn-ppm \$ | Ag-ppm \$ | As-ppm \$ | Au-ppm \$ | B-ppm \$ |
|---------|----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| MZ454RC | 34 12 41 | 111 33 19 | 1.50 | .10 | .20 | .300 | 20 | 3.0 | >10,000 | N | 200 |
| MZ454RD | 34 12 41 | 111 33 19 | 20.00 | .20 | 3.00 | .150 | 300 | 300.0 | >10,000 | N | 150 |
| MZ454RE | 34 12 41 | 111 33 19 | 5.00 | .30 | .70 | .200 | 50 | 50.0 | >10,000 | N | 500 |
| MZ454RF | 34 12 41 | 111 33 19 | 5.00 | .20 | .70 | .200 | 50 | 20.0 | >10,000 | N | 200 |
| MZ455R | 34 13 12 | 111 32 24 | 15.00 | 2.00 | .15 | .200 | 5,000 | 3.0 | 500 | N | 50 |
| MZ455RA | 34 13 12 | 111 32 24 | 5.00 | .70 | .10 | .300 | 200 | 10.0 | 3,000 | N | >2,000 |
| MZ455RB | 34 13 12 | 111 32 24 | 10.00 | .03 | 2.00 | .100 | <10 | 200.0 | >10,000 | N | 100 |
| MZ456R | 34 14 39 | 111 34 51 | 1.00 | .70 | 20.00 | .100 | 5,000 | 1.5 | <200 | N | 70 |
| MZ456RA | 34 14 39 | 111 34 57 | 3.00 | 1.50 | 1.00 | .300 | 700 | 1.0 | N | N | 300 |
| MZ456RB | 34 14 41 | 111 35 1 | 5.00 | 1.50 | 15.00 | .100 | 3,000 | 1.0 | N | N | 50 |
| MZ457R | 34 14 31 | 111 34 58 | .50 | .10 | .10 | .010 | 150 | N | N | N | 200 |
| MZ457RA | 34 14 29 | 111 34 59 | 5.00 | .02 | .07 | .020 | 30 | 1.0 | >1,000 | N | 50 |
| MZ457RB | 34 14 26 | 111 35 2 | 2.00 | >10.00 | 7.00 | .150 | 300 | N | N | N | 30 |
| MZ458R | 34 14 16 | 111 35 27 | 5.00 | .50 | .07 | .300 | 70 | .5 | N | N | 70 |
| MZ458RA | 34 14 16 | 111 35 27 | 2.00 | .20 | .05 | .300 | 50 | 1.0 | N | N | 30 |
| MZ458RB | 34 14 16 | 111 35 27 | 15.00 | .10 | .05 | .200 | 100 | 2.0 | 200 | N | 500 |
| MZ458RC | 34 14 16 | 111 35 27 | 5.00 | .70 | .05 | .300 | 300 | 1.0 | N | N | 50 |
| MZ458RD | 34 14 23 | 111 35 24 | 20.00 | .30 | .05 | .200 | 50 | .7 | N | N | 200 |
| MZ458RE | 34 14 20 | 111 35 19 | 5.00 | .70 | 5.00 | .300 | 1,000 | N | N | N | 50 |
| MZ458RF | 34 14 21 | 111 35 18 | 5.00 | .70 | 5.00 | .100 | 1,000 | 3.0 | N | N | 30 |
| MZ458RG | 34 14 22 | 111 35 15 | 5.00 | 1.00 | 1.00 | .300 | 1,000 | N | N | N | 20 |
| MZ458RH | 34 14 13 | 111 35 13 | 3.00 | .70 | .70 | .150 | 700 | N | N | N | 50 |
| MZ458RI | 34 14 13 | 111 35 13 | .50 | 10.00 | >20.00 | .010 | 200 | N | N | N | N |
| MZ460R | 34 10 39 | 111 27 59 | 5.00 | 1.50 | 1.00 | .200 | 500 | 1.0 | N | N | 15 |
| MZ460RA | 34 10 39 | 111 27 59 | 7.00 | 1.50 | .70 | .200 | 500 | .5 | N | N | 15 |
| MZ460RB | 34 10 31 | 111 28 0 | 10.00 | 1.50 | 1.00 | .500 | 1,500 | <.5 | N | N | 10 |
| MZ462R | 34 10 2 | 111 27 28 | 15.00 | 3.00 | .15 | .300 | 700 | 10.0 | N | N | 20 |
| MZ463R | 34 9 36 | 111 26 20 | 2.00 | .50 | .30 | .050 | 50 | 700.0 | 1,000 | N | 20 |
| MZ463RA | 34 9 36 | 111 26 20 | 2.00 | .70 | 2.00 | .020 | 500 | 1.5 | N | N | 20 |
| MZ464R | 34 8 5 | 111 26 55 | 5.00 | .70 | .50 | .100 | 100 | 300.0 | 200 | N | 15 |
| MZ464RA | 34 8 5 | 111 26 55 | 5.00 | 3.00 | 5.00 | <.002 | 1,500 | 70.0 | N | N | 15 |
| MZ464RB | 34 8 5 | 111 26 55 | 10.00 | 1.50 | 7.00 | .070 | 2,000 | 1.0 | 1,000 | N | 20 |
| MZ464RC | 34 8 5 | 111 26 55 | 5.00 | .50 | 1.00 | .050 | 300 | 500.0 | 1,000 | N | 15 |
| MZ464RD | 34 8 5 | 111 26 55 | 5.00 | .20 | .05 | .100 | 20 | 5,000.0 | N | N | 50 |
| MZ464RE | 34 8 5 | 111 26 55 | .50 | <.02 | <.05 | .005 | N | 500.0 | N | N | N |
| MZ464RF | 34 8 5 | 111 26 55 | 1.00 | <.02 | <.05 | .020 | <10 | 70.0 | N | N | 15 |
| MZ471R | 34 10 25 | 111 34 42 | .50 | <.02 | <.05 | .010 | 20 | .5 | N | N | 15 |
| MZ476R | 34 12 44 | 111 33 7 | 7.00 | 1.00 | .20 | .200 | 2,000 | 2.0 | N | N | >2,000 |
| MZ476RA | 34 12 44 | 111 33 7 | 3.00 | .70 | 1.00 | .200 | 150 | 50.0 | >10,000 | N | >2,000 |
| MZ476RB | 34 12 44 | 111 33 7 | 2.00 | .10 | .10 | .200 | 50 | 150.0 | >10,000 | N | 1,000 |
| MZ476RC | 34 12 44 | 111 33 7 | 20.00 | .70 | .07 | .150 | 1,500 | 30.0 | 5,000 | N | 300 |
| MZ476RD | 34 12 43 | 111 33 10 | 20.00 | .50 | .30 | .200 | 5,000 | 10.0 | 3,000 | N | 700 |
| MZ476RE | 34 12 43 | 111 33 10 | 15.00 | 1.00 | .10 | .300 | 3,000 | 15.0 | 1,500 | N | 1,000 |
| MZ476RF | 34 12 42 | 111 33 12 | 10.00 | 1.50 | .07 | .200 | 1,000 | 3.0 | 200 | N | >2,000 |
| MZ476RG | 34 12 42 | 111 33 12 | 10.00 | .15 | .07 | .300 | 70 | 15.0 | >10,000 | N | 200 |

TABLE 3.--continued

| Sample | Ba-ppm | Be-ppm | Bi-ppm | Cd-ppm | Co-ppm | Cr-ppm | Cu-ppm | La-ppm | Mo-ppm | Nb-ppm | Ni-ppm | Pb-ppm | Sb-ppm |
|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|---------|---------|
| | s | s | s | s | s | s | s | s | s | s | s | s | s |
| MZ454RC | 150 | N | 100 | N | 5 | 50 | 500 | 70 | <5 | N | <5 | 200 | 100 |
| MZ454RD | 500 | 1.0 | >1,000 | 100 | 100 | 70 | >20,000 | N | 20 | N | 70 | 20,000 | 5,000 |
| MZ454RE | 300 | <1.0 | 1,000 | N | 15 | 100 | 20,000 | 20 | N | N | 7 | 2,000 | 200 |
| MZ454RF | 300 | 1.0 | 500 | N | 15 | 150 | 15,000 | 20 | 5 | N | 7 | 1,000 | 500 |
| MZ455R | 300 | 2.0 | 50 | N | 50 | 30 | 1,000 | 30 | N | N | 20 | 700 | N |
| MZ455RA | 700 | 2.0 | 10 | N | 10 | 70 | 1,000 | 50 | N | <20 | 20 | 150 | 100 |
| MZ455RB | 500 | 1.5 | 30 | 70 | 7 | 20 | 5,000 | 30 | <5 | N | 10 | 70 | 5,000 |
| MZ456R | 300 | 1.5 | N | N | 10 | 70 | 50 | 50 | N | N | 15 | 20 | N |
| MZ456RA | 300 | 1.5 | N | N | 20 | 200 | 70 | 30 | N | N | 50 | 30 | 100 |
| MZ456RB | 500 | 1.5 | <10 | N | 10 | 50 | 70 | 50 | N | N | 20 | 20 | N |
| MZ457R | 150 | 5.0 | N | N | N | N | 100 | 50 | N | <20 | <5 | 10 | N |
| MZ457RA | 500 | 1.5 | 50 | N | N | N | 50 | 50 | 10 | 20 | N | 70 | 500 |
| MZ457RB | 300 | 1.5 | N | N | 10 | 70 | 100 | 50 | N | N | 15 | 10 | N |
| MZ458R | 1,000 | 1.5 | N | N | <5 | 100 | 20 | 30 | N | N | 10 | 2,000 | N |
| MZ458RA | 150 | 1.5 | N | N | N | 200 | 30 | 50 | N | N | N | 5,000 | <100 |
| MZ458RB | 500 | <1.0 | <10 | N | 20 | 150 | 70 | 30 | 5 | N | 50 | 5,000 | <100 |
| MZ458RC | 3,000 | 1.0 | N | N | 10 | 200 | 70 | 20 | N | N | 50 | 1,000 | <100 |
| MZ458RD | 1,000 | 1.5 | <10 | N | 7 | 50 | 70 | 30 | 5 | N | 15 | 5,000 | <100 |
| MZ458RE | 500 | 2.0 | <10 | N | 10 | 70 | 70 | 50 | N | N | 20 | 100 | <100 |
| MZ458RF | 300 | 1.0 | 10 | N | 20 | 30 | 500 | 30 | 10 | N | 20 | 3,000 | <100 |
| MZ458RG | 1,000 | 1.5 | N | N | 15 | 150 | 50 | 30 | N | N | 50 | 150 | N |
| MZ458RH | 500 | 2.0 | N | N | 10 | 70 | 20 | 50 | N | N | 30 | 200 | N |
| MZ458RI | <20 | 2.0 | N | N | <5 | 10 | 100 | 100 | N | N | N | 10 | N |
| MZ460R | 100 | 1.5 | <10 | N | 20 | N | 2,000 | 50 | <5 | N | N | 15 | N |
| MZ460RA | 1,000 | 1.5 | <10 | N | 20 | N | 20,000 | 50 | <5 | N | N | 10 | N |
| MZ460RB | 100 | 1.0 | N | N | 30 | 15 | 200 | 20 | 5 | N | 20 | 20 | N |
| MZ462R | >5,000 | <1.0 | N | N | 50 | 20 | 20,000 | 20 | 5 | N | 30 | 10 | N |
| MZ463R | 150 | 1.0 | 50 | 300 | 15 | 10 | >20,000 | N | N | N | 10 | 1,000 | >10,000 |
| MZ463RA | 70 | <1.0 | N | N | 5 | <10 | 200 | N | N | N | 5 | <10 | N |
| MZ464R | 100 | <1.0 | N | 20 | 20 | <10 | 10,000 | 20 | N | N | 10 | 10 | 5,000 |
| MZ464RA | 5,000 | <1.0 | N | 50 | 20 | N | 500 | 30 | 5 | N | 10 | 20 | 500 |
| MZ464RB | 70 | N | N | 50 | 15 | 20 | 150 | N | 7 | N | 7 | 30 | <100 |
| MZ464RC | 1,000 | N | N | 70 | 20 | N | 10,000 | 30 | 5 | N | 10 | 1,000 | >10,000 |
| MZ464RD | >5,000 | N | 20 | N | 10 | 10 | >20,000 | 20 | 5 | N | 10 | 10,000 | 2,000 |
| MZ464RE | 200 | N | N | N | N | N | >20,000 | N | N | N | N | >20,000 | N |
| MZ464RF | 50 | 1.0 | N | N | N | N | 3,000 | 20 | N | N | 5 | 1,500 | N |
| MZ471R | 200 | 1.0 | N | N | N | N | 30 | 50 | N | <20 | N | 50 | N |
| MZ476R | 100 | 2.0 | N | N | 20 | 70 | 300 | 30 | 5 | N | 20 | 1,500 | N |
| MZ476RA | 100 | 1.5 | 200 | 100 | 10 | 100 | >20,000 | 30 | <5 | N | 10 | 1,000 | 10,000 |
| MZ476RB | 70 | 1.0 | 70 | N | <5 | 70 | 15,000 | 70 | 7 | N | 5 | 100 | 10,000 |
| MZ476RC | 200 | 15.0 | <10 | 100 | 10 | 100 | 5,000 | 30 | 30 | N | 20 | 1,500 | 700 |
| MZ476RD | 700 | 2.0 | 30 | N | 70 | 70 | 5,000 | 20 | 15 | 50 | 50 | 1,000 | 5,000 |
| MZ476RE | 500 | 2.0 | N | N | 20 | 100 | 500 | 30 | 5 | <20 | 30 | 5,000 | N |
| MZ476RF | 300 | 1.5 | N | N | 20 | 100 | 300 | 30 | N | N | 30 | 500 | N |
| MZ476RG | 500 | 1.0 | 20 | 200 | <5 | 150 | 300 | 50 | 15 | N | 150 | 150 | 300 |

TABLE 3.--continued

| Sample | 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 | AU-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ454RC | <5 | 50 | 500 | 70 | 50 | <10 | N | 150 | V | <.05 | .08 | .8 | 550.0 |
| MZ454RD | <5 | >1,000 | 700 | 200 | N | 20 | 700 | 70 | N | .25 | .10 | 1.6 | >1.0 |
| MZ454RE | 10 | 300 | 200 | 700 | 70 | 10 | N | 100 | V | N | .12 | .5 | >1.0 |
| MZ454RF | 10 | 700 | 500 | 200 | N | 15 | N | 100 | N | N | .08 | .7 | >1.0 |
| MZ455R | 15 | 70 | 700 | 200 | N | 15 | 1,500 | 50 | 1,000 | N | .10 | .1 | 510.0 |
| MZ455RA | 15 | 100 | <100 | 150 | N | 20 | N | 100 | V | N | .04 | .5 | 900.0 |
| MZ455RB | N | 20 | 150 | 50 | N | <10 | 700 | 30 | V | N | .16 | .8 | 4,600.0 |
| MZ456R | 7 | N | 300 | 20 | <50 | 20 | N | 30 | V | N | .06 | .1 | 45.0 |
| MZ456RA | 10 | N | 200 | 70 | <50 | 15 | 300 | 100 | N | N | .16 | N | 35.0 |
| MZ456RB | 10 | N | 300 | 70 | N | 30 | N | 30 | V | 2.50 | .20 | .2 | 45.0 |
| MZ457R | N | N | 100 | <10 | N | 30 | <200 | 70 | V | N | .04 | N | 25.0 |
| MZ457RA | N | 10 | N | 20 | N | 30 | <200 | 100 | V | N | .04 | N | 65.0 |
| MZ457RB | 10 | N | 150 | 30 | N | 50 | N | 50 | V | N | .04 | .1 | 15.0 |
| MZ458R | 10 | N | 200 | 70 | N | 10 | <200 | 150 | V | N | .04 | N | 20.0 |
| MZ458RA | 10 | 10 | 200 | 70 | N | 10 | <200 | 150 | V | N | .08 | .1 | 15.0 |
| MZ458RB | 10 | 20 | 150 | 100 | N | 15 | 700 | 100 | V | N | .10 | N | 20.0 |
| MZ458RC | 10 | 20 | 200 | 100 | N | 15 | 300 | 100 | V | N | .06 | N | 60.0 |
| MZ458RD | 15 | 20 | 200 | 70 | N | 15 | 500 | 100 | V | N | .22 | .2 | 30.0 |
| MZ458RE | 10 | <10 | 500 | 100 | N | 20 | N | 100 | V | N | .04 | .2 | 55.0 |
| MZ458RF | 5 | <10 | 700 | 150 | N | 30 | 500 | 50 | V | N | .14 | 2.6 | 330.0 |
| MZ458RG | 10 | N | 500 | 100 | N | 10 | N | 100 | V | N | .04 | N | 30.0 |
| MZ458RH | 7 | N | 150 | 50 | N | 10 | N | 70 | V | N | .02 | N | 60.0 |
| MZ458RI | <5 | N | 150 | <10 | N | 50 | N | 20 | V | N | .02 | N | 290.0 |
| MZ460R | 15 | N | 300 | 50 | N | 20 | N | 100 | V | <.05 | .02 | .4 | 1,500.0 |
| MZ460RA | 10 | N | 200 | 30 | N | 20 | N | 70 | V | <.05 | .04 | .4 | >1.0 |
| MZ460RB | 20 | N | 500 | 100 | N | 30 | N | 150 | V | N | .02 | N | 65.0 |
| MZ462R | 20 | N | N | 200 | N | 10 | 200 | 30 | V | N | .04 | .5 | >1.0 |
| MZ463R | 5 | N | 200 | 50 | N | N | 1,000 | N | <100 | 13.00 | >40.00 | .8 | >1.0 |
| MZ463RA | 5 | N | 100 | 100 | N | <10 | N | N | V | N | .10 | N | 60.0 |
| MZ464R | 5 | <10 | N | 50 | N | 10 | 1,000 | 20 | V | <.05 | 34.00 | N | >1.0 |
| MZ464RA | 5 | N | 200 | 20 | N | 10 | 200 | N | V | N | 9.00 | N | 1,500.0 |
| MZ464RB | 10 | N | 300 | 50 | N | 10 | 5,000 | 10 | V | N | .60 | .5 | 110.0 |
| MZ464RC | 7 | N | <100 | 50 | N | 20 | 2,000 | 50 | N | N | 22.00 | .7 | >1.0 |
| MZ464RD | 7 | N | N | 50 | N | <10 | 300 | 15 | V | 4.00 | 3.00 | .8 | >1.0 |
| MZ464RE | N | N | 700 | <10 | N | N | N | N | N | .20 | .35 | .5 | >1.0 |
| MZ464RF | N | 20 | N | 10 | N | N | N | <10 | V | 2.00 | .18 | .4 | 3,100.0 |
| MZ471R | N | 20 | N | <10 | N | 15 | N | 70 | V | N | .02 | N | 20.0 |
| MZ476R | 15 | 700 | 100 | 200 | N | 15 | 2,000 | 100 | V | <.05 | .10 | N | 200.0 |
| MZ476RA | 15 | 70 | 100 | 150 | 70 | 10 | 300 | 100 | V | <.05 | .14 | .4 | >1.0 |
| MZ476RB | 5 | 300 | N | 50 | 100 | 15 | 200 | 150 | V | N | .12 | .4 | >1.0 |
| MZ476RC | 10 | 50 | 300 | 100 | N | 20 | 3,000 | 100 | V | N | .12 | .7 | 1,700.0 |
| MZ476RD | 10 | >1,000 | 200 | 200 | 50 | 15 | 10,000 | 150 | V | N | .14 | N | 1,300.0 |
| MZ476RE | 10 | 70 | <100 | 100 | N | 15 | 2,000 | 100 | V | N | .16 | .5 | 500.0 |
| MZ476RF | 15 | 200 | 200 | 100 | N | 20 | 300 | 150 | V | N | .06 | .5 | 290.0 |
| MZ476RG | 10 | 150 | 1,500 | 100 | 70 | 20 | 700 | 100 | V | N | .06 | .5 | 330.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| MZ454RC | 45 | 25 | 4.50 | 7.50 | 26 | 95 | >1 | White clay-like material from altered vein with sericite and sec. minerals |
| MZ454RD | >1 | 220 | >1.00 | 72.00 | >1 | >1 | >1 | Central zone of altered vein; sec. Cu and other sec. minerals |
| MZ454RE | 1,000 | 70 | 42.00 | 16.00 | 500 | 300 | >1 | Altered metasediments with sec. minerals |
| MZ454RF | 300 | 85 | 23.00 | 13.00 | 260 | 350 | >1 | Altered metasediments with black oxidized xls |
| MZ455R | 530 | 2,000 | 1.00 | 1.55 | 12 | 9 | 400 | Altered metasediments from prospect pit |
| MZ455RA | 220 | 180 | 14.20 | 2.95 | 1 | 150 | 3,200 | Fe oxide zone in metasediments; from prospect pit |
| MZ455RB | 80 | 1,200 | >1.00 | 40.00 | 58 | >1 | >1 | Altered metasediments with scorodite and other sec. minerals |
| MZ456R | 30 | 40 | .85 | .25 | N | 8 | 200 | Calcite vein in sheared metasediments |
| MZ456RA | 10 | 220 | <.05 | .05 | N | 3 | 80 | Vein of specularite in metasediments |
| MZ456RB | 20 | 75 | .20 | .05 | 2 | 21 | 40 | Fracture filling from shear zone in metasediments |
| MZ457R | 15 | 30 | N | .20 | N | 4 | 40 | Dike with some tourmaline |
| MZ457RA | 45 | 80 | .65 | 3.40 | 26 | 300 | >1 | Greisen with scorodite, Fe oxides, and monazite; float from stream bed |
| MZ457RB | 10 | 65 | .10 | .05 | N | 2 | 60 | Qtz vein in metasediments with some sec. Cu; float from stream bed |
| MZ458R | 490 | 70 | .80 | .20 | 1 | 12 | 60 | Altered metasediments; bleached with abundant pyrite casts, some fresh pyrite |
| MZ458RA | 1,100 | 15 | 1.15 | .05 | N | 17 | 60 | Altered coarse grained metasediments; abundant pyrite casts and Fe oxides |
| MZ458RB | 730 | 220 | .60 | .40 | N | 36 | 80 | Altered metasediments; fine grained and fine bedded with abundant Fe oxides |
| MZ458RC | 210 | 240 | .55 | .70 | N | 9 | 80 | Altered metasediments; abundant pyrite casts, some limonite replacements |
| MZ458RD | 350 | 130 | .70 | .15 | N | 46 | 60 | Fe oxide vein in finegrained metasediments; 1.5cm thick |
| MZ458RE | 50 | 40 | .15 | .20 | 1 | 3 | 120 | Silicified metasediments |
| MZ458RF | 1,500 | 940 | 2.90 | 2.00 | 19 | 8 | 160 | Qtz vein with fresh pyrite and abundant Fe oxides; some silvery sulfide |
| MZ458RG | 110 | 190 | .20 | .10 | 1 | 3 | 120 | Altered metasediment; coarse grained with disseminated pyrite |
| MZ458RH | 75 | 170 | .20 | .10 | 1 | 2 | 120 | Altered metasediments; small Qtz stringers with fresh pyrite |
| MZ458RI | 15 | 25 | .10 | N | N | 1 | 10 | Fluorite vein; 30cm thick |
| MZ460R | 10 | 10 | .30 | .05 | 1 | 2 | 60 | Altered metasediments; K flooded with abundant primary and sec. Cu |
| MZ460RA | 10 | 10 | .15 | .10 | N | 1 | 10 | Cu ore; primary and sec., from mine adit |
| MZ460RB | 10 | 110 | <.05 | N | N | N | 10 | Metasediment |
| MZ462R | 20 | 130 | 3.00 | .15 | 2 | N | 20 | Altered metasediment with sec. Cu on fractures; abundant Fe oxide |
| MZ463R | 550 | 1,100 | >1.00 | >1.00 | 10 | >1 | 1,200 | Altered metasediment with sec. Cu; from House mine dump |
| MZ463RA | 10 | 25 | 1.50 | .20 | N | 2 | <10 | Metasediment from House mine dump |
| MZ464R | 10 | 830 | >1.00 | 37.00 | N | >1 | 100 | Metavolcanic with primary and sec. Cu and some pyrite; from collum mine dump |
| MZ464RA | 30 | 410 | 89.00 | 11.00 | N | 1,150 | 40 | Dolomite vein with Cu-Sb-Ag sulfosalt; from Collum mine dump |
| MZ464RB | 40 | >1 | .80 | 42.00 | N | 4 | 1,200 | Qtz vein with pyrite; from upper mine dump |
| MZ464RC | 2,100 | 1,700 | >1.00 | 40.00 | N | >1 | 3,600 | Metavolcanic with sec. Cu; from upper mine dump |
| MZ464RD | >1 | 220 | >1.00 | 12.00 | 16 | >1 | 160 | Qtz vein with galena and Cu-Sb-Ag sulfosalt; from Collum mine dump |
| MZ464RE | >1 | <5 | >1.00 | 7.00 | N | 27 | 160 | Qtz vein outcrop with massive galena (argentiferous); at Collum mine |
| MZ464RF | 1,000 | 5 | 49.00 | .15 | N | 10 | 120 | Qtz vein with sulfides; outcrop at Collum mine |
| MZ471R | 70 | <5 | .75 | N | N | 1 | 10 | Qtz vein with Fe oxides; as much as 20m thick |
| MZ476R | 950 | >1 | 1.00 | 2.50 | N | 9 | 80 | Altered metasediment; abundant Tourmaline and Fe oxides on fractures |
| MZ476RA | 310 | 200 | 38.00 | 23.00 | 100 | >1 | >1 | Silicified metasediment with abundant sec. Cu on fractures; from pros. pit |
| MZ476RB | 140 | 180 | 210.00 | 14.00 | 17 | >1 | >1 | Silicified metasediment with sec As; from prospect pit |
| MZ476RC | 410 | >1 | 7.00 | 38.00 | 2 | 1,200 | >1 | Cossan in metasediment; silicified |
| MZ476RD | 180 | 2,000 | 1.50 | 13.00 | 12 | 6,200 | 3,200 | Fracture filling from fault zone; Fe oxides |
| MZ476RE | 1,700 | 1,600 | 3.00 | 7.00 | 1 | 71 | 1,200 | Jasperoid from altered zone in metasediments |
| MZ476RF | 310 | 610 | 2.00 | .90 | 3 | 8 | 200 | Breccia zone in metasediments; 10m wide with abundant tourmaline |
| MZ476RG | 55 | 600 | 6.00 | 170.00 | 13 | 300 | >1 | Altered metasediments with abundant scorodite |

TABLE 3.--continued

| Sample | Latitude | Longitude | 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 |
|---------|----------|-----------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| MZ476RH | 34 12 42 | 111 33 12 | 20.00 | .05 | .20 | .300 | 30 | 15.0 | >10,000 | N | 100 |
| MZ476RI | 34 12 41 | 111 33 13 | 20.00 | <.02 | .30 | .200 | <10 | 20.0 | >10,000 | N | 200 |
| MZ476RJ | 34 12 41 | 111 33 13 | 15.00 | .30 | .20 | .300 | 30 | 5.0 | >10,000 | N | 300 |
| MZ477R | 34 12 58 | 111 33 20 | 10.00 | 1.50 | .10 | .300 | 1,500 | 2.0 | 300 | N | >2,000 |
| MZ477RA | 34 12 58 | 111 33 20 | 5.00 | 1.00 | .05 | .200 | 1,000 | <.5 | N | N | 100 |
| MZ477RB | 34 12 58 | 111 33 20 | 5.00 | .70 | .05 | .200 | 500 | .7 | N | N | 100 |
| MZ477RC | 34 12 58 | 111 33 20 | 10.00 | 1.00 | .15 | .200 | 1,000 | 2.0 | N | N | >2,000 |
| MZ477RD | 34 12 59 | 111 33 19 | 2.00 | .70 | .07 | .150 | 700 | 1.0 | N | N | 200 |
| MZ477RE | 34 12 30 | 111 33 15 | 10.00 | .50 | <.05 | .200 | 150 | .7 | N | N | 100 |
| MZ477RF | 34 12 30 | 111 33 15 | 15.00 | .70 | .05 | .200 | 500 | 10.0 | 10,000 | N | 500 |
| MZ478RA | 34 12 22 | 111 33 31 | 3.00 | .30 | .05 | .150 | 200 | 1.0 | N | N | 500 |
| MZ478RB | 34 12 22 | 111 33 29 | .50 | .15 | <.05 | .070 | 100 | N | N | N | 20 |
| MZ478RC | 34 12 22 | 111 33 29 | 5.00 | 1.00 | .05 | .300 | 1,000 | N | N | N | 100 |
| MZ478RD | 34 12 23 | 111 33 27 | 1.50 | .10 | <.05 | .050 | 30 | N | N | N | 20 |
| MZ478RE | 34 12 23 | 111 33 27 | 10.00 | .10 | .07 | .100 | 1,500 | 20.0 | 2,000 | N | 150 |
| MZ479R | 34 6 14 | 111 26 9 | 15.00 | 1.50 | .10 | .300 | 1,000 | <.5 | N | N | 20 |
| MZ479RA | 34 6 14 | 111 26 9 | 15.00 | 5.00 | .15 | .300 | 1,500 | <.5 | N | N | 20 |
| MZ479RB | 34 6 19 | 111 26 18 | 20.00 | 3.00 | .20 | .300 | 1,500 | 15.0 | N | N | 30 |
| MZ479RC | 34 6 19 | 111 26 18 | 10.00 | 3.00 | .15 | .200 | 1,000 | <.5 | N | N | 20 |
| MZ479RD | 34 6 9 | 111 26 36 | 20.00 | 3.00 | .20 | .200 | 500 | <.5 | N | N | 20 |
| MZ479RE | 34 6 9 | 111 26 36 | 20.00 | 2.00 | .15 | .200 | 500 | .5 | N | N | 20 |
| MZ479RF | 34 6 3 | 111 26 28 | 20.00 | 2.00 | .15 | .200 | 1,500 | N | N | N | 20 |
| MZ479RG | 34 6 3 | 111 26 28 | 20.00 | 1.00 | <.05 | .020 | 500 | 2.0 | N | N | 20 |
| MZ479RH | 34 6 3 | 111 26 28 | 20.00 | 2.00 | .07 | .030 | 1,500 | .7 | N | N | 20 |
| MZ479RI | 34 6 3 | 111 26 28 | 15.00 | 1.50 | .10 | .030 | 700 | <.5 | N | N | 15 |
| MZ480R | 34 7 42 | 111 40 20 | .15 | .10 | .07 | .005 | >5,000 | N | N | N | 10 |
| MZ481R | 34 7 55 | 111 38 10 | .50 | <.02 | <.05 | .100 | 1,000 | 30.0 | N | N | 10 |
| MZ481RA | 34 7 55 | 111 38 10 | .50 | <.02 | <.05 | .100 | 500 | 300.0 | N | N | 15 |
| MZ481RB | 34 7 55 | 111 38 10 | .50 | .07 | <.05 | .050 | 200 | 20.0 | N | N | 20 |
| MZ481RC | 34 7 55 | 111 38 10 | .70 | <.02 | <.05 | .050 | 500 | 70.0 | N | N | 15 |
| MZ481RD | 34 7 55 | 111 38 10 | 1.00 | .20 | .05 | .050 | 100 | 5.0 | N | N | 30 |
| MZ481RE | 34 7 55 | 111 38 10 | 1.00 | .10 | .05 | .050 | 2,000 | 15.0 | N | N | 15 |
| MZ481RF | 34 7 55 | 111 38 10 | .70 | .10 | <.05 | .050 | 3,000 | 15.0 | N | N | 15 |
| MZ481RG | 34 7 55 | 111 38 10 | .70 | .10 | <.05 | .050 | 2,000 | 10.0 | N | N | 15 |
| MZ482R | 34 14 53 | 111 40 2 | .70 | .05 | <.05 | .050 | 300 | N | N | N | 10 |
| MZ482RA | 34 14 53 | 111 40 2 | .50 | .10 | .10 | .150 | >5,000 | N | N | N | 15 |
| MZ483R | 34 15 27 | 111 40 19 | .20 | .05 | <.05 | <.002 | 50 | 5.0 | N | N | 15 |
| MZ483RA | 34 15 27 | 111 40 19 | 3.00 | .15 | .07 | .020 | 200 | .5 | 200 | N | 30 |
| MZ484R | 34 8 19 | 111 36 41 | 5.00 | .02 | <.05 | .020 | 300 | N | N | N | 15 |
| MZ485R | 34 8 31 | 111 35 32 | 1.50 | .10 | <.05 | .020 | 5,000 | N | N | N | 15 |
| MZ486R | 33 57 54 | 111 34 2 | 20.00 | .05 | <.05 | .150 | 500 | 1.5 | <200 | N | 50 |
| MZ486RA | 33 57 54 | 111 34 2 | 7.00 | .15 | <.05 | .050 | 1,000 | 3.0 | N | N | 20 |
| MZ486RB | 33 57 53 | 111 34 6 | >20.00 | <.02 | <.05 | <.002 | 20 | 10.0 | 700 | N | 100 |
| MZ486RC | 33 57 53 | 111 34 6 | 5.00 | .20 | <.05 | .100 | 500 | 2.0 | N | N | 30 |
| MZ486RD | 33 57 53 | 111 34 6 | 15.00 | .05 | <.05 | .015 | 70 | 50.0 | 500 | N | 50 |

TABLE 3.--continued

| Sample | Ba-ppm | Be-ppm | Bi-ppm | Cd-ppm | Co-ppm | Cr-ppm | Cu-ppm | La-ppm | Mo-ppm | Nb-ppm | Ni-ppm | Pb-ppm | Sb-ppm |
|---------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|
| MZ476RH | 150 | 1.0 | 1,000 | 500 | 5 | 150 | 3,000 | 50 | 15 | 20 | 10 | 3,000 | 500 |
| MZ476RI | <20 | <1.0 | 1,000 | N | 5 | 50 | 700 | 50 | 10 | 50 | 5 | 200 | 7,000 |
| MZ476RJ | 500 | 2.0 | 200 | 70 | 10 | 200 | 2,000 | 100 | 50 | 30 | 15 | 1,000 | 5,000 |
| MZ477R | 300 | 2.0 | N | 15 | 15 | 100 | 100 | 20 | N | N | 20 | 1,500 | N |
| MZ477RA | 500 | 1.5 | N | N | 15 | 50 | 30 | 20 | N | N | 15 | 50 | N |
| MZ477RB | 1,000 | 2.0 | N | N | 10 | 50 | 70 | 20 | N | N | 15 | 150 | N |
| MZ477RC | 70 | <1.0 | N | N | 20 | 100 | 300 | 20 | N | <20 | 30 | 3,000 | <100 |
| MZ477RD | 700 | 2.0 | N | N | 10 | 20 | 50 | 30 | N | N | 15 | 15 | N |
| MZ477RE | 1,000 | 2.0 | N | N | 5 | 30 | 100 | 30 | N | N | 10 | 15 | N |
| MZ477RF | 500 | 3.0 | 20 | 300 | 50 | 30 | 1,000 | 50 | 50 | N | 20 | 70 | 100 |
| MZ478RA | 500 | 2.0 | 50 | N | 10 | 30 | 200 | 50 | 7 | N | 7 | 30 | N |
| MZ478RB | 200 | 2.0 | N | N | 5 | 10 | 20 | 50 | N | N | 5 | <10 | N |
| MZ478RC | 500 | 2.0 | N | N | 15 | 50 | 100 | 30 | N | N | 20 | 20 | N |
| MZ478RD | 200 | 1.0 | N | N | <5 | 20 | 15 | 50 | N | <20 | <5 | <10 | N |
| MZ478RE | 300 | 2.0 | 150 | N | 30 | 10 | 100 | 100 | 20 | <20 | 30 | 500 | N |
| MZ479R | N | <1.0 | N | N | 50 | 15 | 2,000 | 30 | N | <20 | 20 | 30 | N |
| MZ479RA | 500 | <1.0 | N | N | 50 | 500 | 100 | 20 | N | N | 50 | 10 | 100 |
| MZ479RB | 50 | <1.0 | N | N | 100 | 100 | 20,000 | 20 | N | N | 30 | 10 | N |
| MZ479RC | 20 | N | N | N | 50 | 70 | 100 | 50 | N | N | 20 | 10 | N |
| MZ479RD | 70 | N | N | N | 70 | 20 | 1,000 | 30 | N | N | 30 | <10 | N |
| MZ479RE | 50 | N | N | N | 70 | 15 | 5,000 | 20 | N | N | 30 | <10 | N |
| MZ479RF | 150 | N | N | N | 20 | 10 | 150 | 30 | N | <20 | 20 | <10 | N |
| MZ479RG | 200 | <1.0 | N | N | 20 | 20 | 200 | 30 | N | N | 10 | 10 | N |
| MZ479RH | 300 | N | N | N | 70 | 10 | 1,000 | 30 | 10 | N | 20 | <10 | N |
| MZ479RI | 500 | N | N | N | 30 | 10 | 200 | N | 5 | N | 15 | <10 | N |
| MZ480R | 5,000 | 10.0 | N | N | 50 | N | 100 | 50 | 15 | <20 | 10 | 200 | N |
| MZ481R | 50 | 5.0 | 150 | N | N | N | 5,000 | 50 | N | 20 | 7 | 20 | N |
| MZ481RA | 50 | 5.0 | 200 | N | N | <10 | >20,000 | 20 | N | 20 | <5 | 15 | N |
| MZ481R9 | 50 | 3.0 | 30 | N | <5 | 50 | 70 | 30 | N | 20 | N | 15 | N |
| MZ481RC | 50 | 7.0 | 100 | N | N | N | 7,000 | 50 | N | <20 | N | 20 | N |
| MZ481RD | 300 | 3.0 | N | N | N | N | 70 | 20 | N | <20 | N | 30 | N |
| MZ481RE | 500 | 2.0 | N | N | N | N | 50 | 70 | N | 20 | N | 200 | N |
| MZ481RF | 700 | 2.0 | 70 | N | N | N | 500 | 50 | N | 20 | N | 2,000 | N |
| MZ481RG | 500 | 2.0 | <10 | N | N | <10 | 500 | 70 | N | 20 | 5 | 1,500 | N |
| MZ482R | 700 | <1.0 | N | N | <5 | N | 20 | 50 | N | N | N | 20 | N |
| MZ482RA | 5,000 | 1.0 | N | N | 70 | 10 | 100 | 50 | 20 | N | 15 | 20 | N |
| MZ483R | <20 | 1.0 | 20 | N | N | N | 20 | 50 | N | <20 | N | <10 | N |
| MZ483RA | 500 | 2.0 | 30 | N | 5 | 10 | 70 | 50 | N | <20 | 10 | 30 | N |
| MZ484R | 200 | 2.0 | N | N | N | 10 | 50 | 50 | <5 | 20 | <5 | 30 | N |
| MZ485R | 2,000 | 3.0 | N | N | N | N | 50 | 50 | N | 20 | <5 | 300 | N |
| MZ486R | 200 | 1.5 | 150 | N | 10 | <10 | 15,000 | 50 | 20 | N | <5 | 500 | N |
| MZ486RA | 700 | 1.5 | 20 | N | <5 | N | 2,000 | 30 | 5 | N | N | 200 | N |
| MZ486RB | N | 1.0 | 150 | N | 5 | 10 | 700 | 20 | 10 | N | N | 5,000 | N |
| MZ486RC | 1,500 | 2.0 | N | N | 10 | N | 1,000 | 30 | <5 | <20 | <5 | 200 | N |
| MZ486RD | 200 | 2.0 | 500 | N | 30 | <10 | >20,000 | 100 | 15 | N | 5 | 5,000 | N |

TABLE 3.--continued

| Sample | 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 | Au-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ476RH | N | >1,000 | 500 | 100 | 100 | 20 | 500 | 100 | V | <.05 | .06 | 2.9 | 1,400.0 |
| MZ476RI | 5 | 70 | N | 50 | N | 15 | 200 | 70 | V | .60 | 2.00 | 1.0 | 500.0 |
| MZ476RJ | 7 | 100 | 700 | 500 | 50 | 50 | 200 | 150 | V | .10 | .40 | .8 | 1,100.0 |
| MZ477R | 15 | 300 | 200 | 200 | N | 20 | 700 | 100 | V | N | .10 | N | 120.0 |
| MZ477RA | 10 | N | N | 50 | N | 10 | N | 100 | V | N | .04 | N | 15.0 |
| MZ477RB | 7 | 200 | N | 50 | N | 10 | 700 | 100 | V | N | .04 | N | 50.0 |
| MZ477RC | 10 | 700 | 300 | 500 | N | 10 | 500 | 150 | V | N | .24 | .1 | 160.0 |
| MZ477RD | 5 | N | N | 50 | N | <10 | 200 | 70 | V | <.05 | .02 | N | 40.0 |
| MZ477RE | 10 | 20 | 200 | 70 | N | 10 | N | 70 | V | N | .02 | N | 60.0 |
| MZ477RF | 7 | 200 | 500 | 100 | N | 20 | 1,000 | 150 | V | <.05 | .06 | .2 | 850.0 |
| MZ478RA | 5 | 200 | 300 | 50 | N | 10 | N | 50 | V | N | .04 | N | 70.0 |
| MZ478RB | N | N | N | 20 | N | <10 | N | 30 | V | N | .02 | N | 10.0 |
| MZ478RC | 5 | N | N | 50 | N | 15 | 300 | 150 | V | N | .02 | N | 90.0 |
| MZ478RD | N | N | N | 30 | N | N | N | 20 | V | N | .04 | N | 10.0 |
| MZ478RE | <5 | 150 | 2,000 | 70 | N | 30 | 500 | 50 | V | N | .06 | 3.0 | 30.0 |
| MZ479R | 20 | N | 300 | 150 | N | 15 | N | 30 | V | N | .08 | .3 | 4,600.0 |
| MZ479RA | 30 | N | 300 | 500 | N | 10 | N | <10 | V | N | .02 | N | 25.0 |
| MZ479RB | 20 | N | 200 | 200 | N | 15 | 200 | 50 | V | .10 | .50 | .3 | 16,000.0 |
| MZ479RC | 30 | N | 500 | 200 | N | 20 | <200 | 50 | V | N | .02 | N | 45.0 |
| MZ479RD | 20 | N | N | 500 | N | 20 | <200 | 50 | V | N | .06 | .1 | 780.0 |
| MZ479RE | 20 | N | N | 500 | N | 15 | <200 | 150 | V | N | .02 | .1 | 4,100.0 |
| MZ479RF | 30 | N | N | 500 | N | 15 | <200 | 100 | V | N | .04 | .2 | 110.0 |
| MZ479RG | 15 | N | N | 200 | N | 15 | 300 | 30 | V | N | .06 | >1.0 | 130.0 |
| MZ479RH | 20 | N | <100 | 200 | N | 15 | 300 | 50 | V | <.05 | .04 | .4 | 400.0 |
| MZ479RI | 10 | N | N | 150 | N | 15 | 200 | 70 | V | <.05 | .06 | .6 | 140.0 |
| MZ480R | N | N | 500 | 100 | N | 10 | 200 | <10 | 20J | N | .02 | N | 30.0 |
| MZ481R | N | 15 | N | <10 | N | 50 | >10,000 | 150 | V | <.05 | .20 | N | 6,500.0 |
| MZ481RA | N | 15 | N | <10 | N | 30 | >10,000 | 150 | V | 1.00 | .28 | N | >1.0 |
| MZ481RB | N | <10 | N | <10 | N | 20 | >10,000 | 100 | V | N | .02 | N | 65.0 |
| MZ481RC | N | 20 | N | <10 | N | 20 | >10,000 | 100 | V | <.05 | .45 | N | 5,400.0 |
| MZ481RD | N | <10 | N | <10 | N | 50 | 300 | 200 | V | N | <.02 | N | 50.0 |
| MZ481RE | N | <10 | N | 50 | N | 30 | 1,000 | 100 | V | N | .04 | N | 70.0 |
| MZ481RF | N | <10 | N | 700 | N | 30 | 2,000 | 200 | V | N | .06 | N | 660.0 |
| MZ481RG | N | N | N | 500 | N | 30 | 1,500 | 150 | V | <.05 | .20 | N | 600.0 |
| MZ482R | N | N | 200 | 20 | N | 15 | N | 100 | V | N | <.02 | N | 10.0 |
| MZ482RA | N | N | 200 | 200 | <50 | 20 | N | 200 | 15J | N | .02 | N | 15.0 |
| MZ483R | N | N | N | <10 | N | N | N | <10 | N | <.05 | .02 | 13.0 | 35.0 |
| MZ483RA | <5 | 50 | <100 | 100 | N | 20 | N | 30 | V | N | .04 | 7.8 | 45.0 |
| MZ484R | <5 | 50 | <100 | <10 | N | 30 | <200 | 50 | V | N | .02 | N | 10.0 |
| MZ485R | N | 10 | N | 100 | N | 100 | <200 | 150 | V | N | .02 | N | 25.0 |
| MZ486R | 7 | N | 200 | 50 | N | 20 | 700 | 100 | V | .70 | .18 | 26.0 | >1.0 |
| MZ486RA | 5 | N | 150 | 20 | N | 15 | 700 | 100 | V | N | .08 | 1.9 | 450.0 |
| MZ486RB | N | N | <100 | 50 | N | 10 | 700 | 20 | V | 2.45 | .35 | 2.8 | 130.0 |
| MZ486RC | 5 | N | N | 30 | N | 10 | 1,000 | 100 | V | <.05 | .08 | N | 70.0 |
| MZ486RD | <5 | N | N | <10 | N | <10 | <200 | 20 | V | 1.90 | 2.00 | 10.0 | >1.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| MZ476RH | 1,500 | 310 | 5.00 | 540.00 | 340 | 700 | >1 | Meta-graywacke from outcrop; altered red, bleached, and exsolved |
| MZ476RI | 180 | 60 | 3.00 | 2.00 | 440 | 5,200 | >1 | Massive sulfide from prospect pit (arsenopyrite and tennantite(?)) |
| MZ476RJ | 420 | 350 | 4.00 | 57.00 | 180 | 4,300 | >1 | Fracture filling from gossan zone; abundant Fe oxides and sec. As minerals |
| MZ477R | 720 | 700 | .80 | 1.00 | 2 | 13 | 240 | Fe metasomatized meta-graywacke |
| MZ477RA | 15 | 75 | .10 | .05 | 1 | 4 | 40 | Breccia in meta-graywacke; abundant Fe oxides and sec. Qtz |
| MZ477RB | 55 | 430 | .20 | 1.00 | N | 4 | 120 | Meta-graywacke; Fe altered with Qtz veining |
| MZ477RC | 110 | 300 | .80 | .60 | N | 19 | 120 | Tourmaline |
| MZ477RD | 15 | 180 | .35 | .60 | N | 3 | 20 | Breccia in meta-graywacke; silicified |
| MZ477RE | 5 | 10 | .35 | .20 | N | 8 | 80 | Breccia in meta-graywacke; abundant Fe oxides and jasperoid |
| MZ477RF | 30 | 670 | 8.50 | >1.00 | 1 | 77 | >1 | Tourmaline bearing silicified zone; abundant Fe oxides |
| MZ478RA | 10 | 25 | .45 | .10 | 51 | 44 | 120 | Shear zone in meta-graywacke; abundant Qtz veining |
| MZ478RB | <5 | 15 | .05 | N | N | 2 | 320 | Qtz vein from shear zone |
| MZ478RC | 5 | 240 | .10 | N | N | 1 | 20 | Meta-graywacke; fractured, with some Fe oxides |
| MZ478RD | <5 | <5 | .05 | N | N | 2 | <10 | Qtz vein; vuggy, with Fe oxides |
| MZ478RE | 30 | 110 | 3.00 | .65 | 100 | 43 | 400 | Qtz vein; vuggy, with Fe oxides |
| MZ479R | 10 | 55 | .40 | <.05 | N | N | 10 | Argillite; abundant sec. Cu and cuprite, from mine dump |
| MZ479RA | 5 | 20 | N | <.05 | N | N | N | Meta-igneous country rock |
| MZ479RB | 15 | 65 | 17.00 | .10 | 3 | 1 | <10 | Meta-volcanic; abundant sec. Cu and cuprite along shears and fractures |
| MZ479RC | 10 | 95 | .05 | N | N | 2 | N | Meta-volcanic; unmineralized |
| MZ479RD | 10 | 40 | .20 | N | N | N | 10 | Meta-volcanic; Sec. Cu and Qtz |
| MZ479RE | 15 | 35 | .25 | N | N | 1 | <10 | Meta-volcanic; unmineralized |
| MZ479RF | 10 | 130 | <.05 | N | N | 1 | <10 | Porphyry; argillic alteration, unmineralized |
| MZ479RG | 10 | 85 | 1.00 | <.05 | 1 | N | 160 | Meta-volcanic; porphyritic, argillic alteration with pyrite |
| MZ479RH | 10 | 150 | .40 | N | N | N | 200 | Meta-volcanic; chip sample across face of adi; altered, abundant pyrite |
| MZ479RI | 10 | 85 | .40 | N | N | N | 160 | Fresh pyrite on older Fe oxides; in porphyritic meta-volcanics |
| MZ480R | 10 | 15 | .05 | .50 | N | 1 | 80 | MnO ₂ as stains and fracture fillings in Qtz veins; in Payson Granite |
| MZ481R | 5 | >1 | 44.00 | .30 | 60 | 1 | N | Qtz vein in Payson Granite; abundant sec. Cu and fluorite, at Blue Lode mine |
| MZ481RA | 10 | >1 | >1.00 | .20 | 120 | 1 | 10 | Qtz vein with fluorite; sec. Cu, from Blue Lode mine |
| MZ481RB | <5 | >1 | 5.50 | N | 10 | 1 | N | Qtz vein with fluorite; sec. green mineral (smithsonite?) |
| MZ481RC | 5 | >1 | 80.00 | .10 | 44 | 1 | <10 | Vuggy zone in Qtz vein; abundant sec. Cu, from Blue Lode mine |
| MZ481RD | 5 | 15 | 1.00 | N | N | 1 | 10 | Payson Granite from outcrop near Blue Lode mine; unmineralized |
| MZ481RE | 160 | 90 | 2.50 | .25 | N | 1 | <10 | Qtz vein; gray, 7-8cm thick, in shear zone, Blue Lode mine |
| MZ481RF | 1,800 | >1 | 10.00 | 14.00 | 16 | 1 | 40 | Qtz vein; yellow and green sec. minerals on fractures, Blue Lode mine |
| MZ481RG | 1,200 | 140 | 6.50 | 7.00 | 1 | 1 | 20 | Qtz vein; green and blue sec. minerals, Blue Lode mine |
| MZ482R | 15 | 5 | <.05 | N | N | N | 10 | Tapeets sandstone; MnO ₂ stains |
| MZ482RA | 5 | 5 | <.05 | .05 | N | 4 | 80 | Shear zone in Tapeets sandstone with MnO ₂ |
| MZ483R | 10 | 40 | 2.00 | .10 | 34 | 15 | 40 | Meta-volcanic; propylitic alteration, from old mine dump |
| MZ483RA | 55 | 25 | .25 | N | 22 | 12 | 120 | Breccia with abundant Qtz; from old mine dump |
| MZ484R | 120 | 10 | N | .15 | 3 | N | 10 | Payson Granite; MnO ₂ on fractures and joints |
| MZ485R | 10 | 10 | N | N | N | 9 | 60 | Shear zone in Payson Granite; abundant Qtz and Fe oxides |
| MZ486R | 80 | 190 | 2.00 | .30 | 100 | 3 | 40 | Cossan in meta-volcanics; abundant sec. Cu, from Cu Camp mine |
| MZ486RA | 20 | 40 | 1.90 | .10 | 6 | 1 | 20 | Meta-volcanic rock; bleached and leached with some Fe oxides |
| MZ486RB | 160 | 25 | 2.65 | .15 | 120 | 16 | 200 | Hematite rich zone with sec. yellow minerals; in meta-volcanic rock |
| MZ486RC | 15 | 40 | .75 | <.05 | N | 16 | <10 | Altered schist with Fe oxides; from mine shaft |
| MZ486RD | 140 | 6,200 | 18.80 | 4.05 | 160 | 19 | 200 | Calorite schist with abundant sec. Cu along schistosity; at pros. pit |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. % | Mg-pct. % | Ca-pct. % | Ti-pct. % | Mn-ppm ppm | Ag-ppm ppm | As-ppm ppm | Au-ppm ppm | B-ppm ppm |
|---------|----------|-----------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|--------------|
| MZ486RE | 33 57 53 | 111 34 6 | 3.00 | <.02 | <.05 | <.002 | 20 | 5.0 | <200 | N | <10 |
| MZ486RF | 33 57 49 | 111 34 8 | 5.00 | .70 | <.05 | .150 | >5,000 | 2.0 | N | N | 50 |
| MZ486RG | 33 57 49 | 111 34 8 | >20.00 | .02 | .10 | .005 | 150 | 5.0 | 1,000 | N | 150 |
| MZ486RH | 33 57 49 | 111 34 8 | 20.00 | .50 | .50 | <.002 | 20 | 100.0 | 200 | N | 50 |
| MZ486RI | 33 57 49 | 111 34 8 | 20.00 | <.02 | <.05 | .050 | <10 | 1.0 | N | N | 20 |
| MZ486RJ | 33 57 56 | 111 34 0 | 2.00 | .15 | <.05 | .005 | 50 | <.5 | N | N | 10 |
| MZ487R | 33 58 3 | 111 33 42 | 3.00 | <.02 | <.05 | <.002 | 15 | 20.0 | N | N | <10 |
| MZ487RA | 33 58 3 | 111 33 42 | .20 | <.02 | <.05 | .002 | 70 | N | N | N | <10 |
| MZ487RB | 33 58 3 | 111 33 42 | 3.00 | <.02 | <.05 | <.002 | 10 | 150.0 | N | N | <10 |
| MZ487RC | 33 58 3 | 111 33 42 | 2.00 | <.02 | <.05 | <.002 | 20 | 100.0 | 300 | N | <10 |
| MZ488R | 33 57 43 | 111 34 39 | 10.00 | <.02 | <.05 | <.002 | <10 | .7 | N | N | 15 |
| MZ489R | 33 57 33 | 111 34 30 | .70 | .05 | .05 | .020 | 20 | 30.0 | N | N | 10 |
| MZ489RA | 33 57 31 | 111 34 32 | .30 | .02 | .30 | .010 | 70 | 200.0 | 3,000 | N | 20 |
| MZ492R | 33 57 47 | 111 35 0 | 7.00 | 1.00 | .70 | .150 | 1,500 | N | N | N | 15 |
| MZ492RA | 33 57 45 | 111 35 3 | 15.00 | .05 | .05 | .150 | 20 | N | N | N | 30 |
| MZ492RB | 33 57 45 | 111 35 3 | 15.00 | .20 | .05 | .100 | 30 | N | N | N | 30 |
| MZ492RC | 33 57 40 | 111 35 5 | 5.00 | .20 | .10 | .300 | 70 | N | N | N | 30 |
| MZ492RD | 33 57 40 | 111 35 5 | 7.00 | .20 | .10 | .300 | 20 | N | N | N | 30 |
| MZ492RE | 33 57 40 | 111 35 5 | 7.00 | .30 | .07 | .300 | 20 | N | N | N | 200 |
| MZ492RF | 33 57 40 | 111 35 5 | 7.00 | 2.00 | .10 | .200 | 200 | N | N | N | 50 |
| MZ492RG | 33 57 40 | 111 35 5 | 1.00 | .20 | .10 | .200 | 200 | .5 | N | N | 50 |
| MZ492RH | 33 57 43 | 111 35 2 | 3.00 | 1.00 | 5.00 | .150 | 5,000 | N | N | N | <10 |
| MZ492RI | 33 57 43 | 111 35 2 | 10.00 | 2.00 | 3.00 | .300 | 1,000 | N | N | N | 10 |
| MZ493R | 33 57 52 | 111 33 59 | 15.00 | .70 | 2.00 | .070 | >5,000 | 2.0 | N | N | 20 |
| MZ493RA | 33 57 52 | 111 33 59 | 15.00 | 1.00 | 2.00 | .200 | 5,000 | 2.0 | N | N | 15 |
| MZ494R | 33 58 17 | 111 33 21 | 5.00 | .30 | .05 | .200 | 200 | N | N | N | 20 |
| MZ494RA | 33 58 17 | 111 33 21 | 3.00 | .50 | .05 | .200 | 500 | N | N | N | 20 |
| MZ494RB | 33 58 18 | 111 33 14 | 3.00 | .70 | .05 | .150 | 300 | 5.0 | N | N | 20 |
| MZ494RC | 33 58 23 | 111 33 20 | 1.50 | .05 | <.05 | .020 | 30 | 1.0 | N | N | <10 |
| MZ494RD | 33 58 23 | 111 33 20 | 2.00 | .07 | <.05 | .020 | 100 | <.5 | N | N | 15 |
| MZ495R | 33 57 38 | 111 30 19 | 20.00 | .07 | .05 | .100 | 70 | 50.0 | >10,000 | N | 200 |
| MZ495RA | 33 57 38 | 111 30 19 | 3.00 | <.02 | .07 | .050 | 30 | 50.0 | >10,000 | N | 100 |
| MZ495RB | 33 57 38 | 111 30 19 | 10.00 | .70 | .10 | .500 | >5,000 | 50.0 | 2,000 | N | 30 |
| MZ495RC | 33 57 38 | 111 30 19 | 20.00 | .05 | .10 | .100 | 500 | 100.0 | >10,000 | N | 100 |
| MZ496R | 33 57 26 | 111 29 40 | 2.00 | .20 | 1.50 | .030 | 200 | N | N | N | 10 |
| MZ496RA | 33 57 26 | 111 29 40 | 5.00 | .50 | 7.00 | .100 | 1,500 | N | <200 | N | 50 |
| MZ496RB | 33 57 26 | 111 29 51 | 2.00 | .10 | .30 | <.002 | 200 | <.5 | N | N | 10 |
| MZ496RC | 33 57 26 | 111 29 51 | 2.00 | .05 | .20 | <.002 | 100 | <.5 | N | N | 10 |
| MZ497R | 34 12 35 | 111 33 20 | 5.00 | 1.00 | .70 | .150 | 700 | N | N | N | 200 |
| MZ497RA | 34 12 35 | 111 33 20 | 5.00 | .70 | 2.00 | .200 | 1,000 | N | N | N | 150 |
| MZ497RB | 34 12 35 | 111 33 20 | .70 | .20 | .05 | .050 | 70 | 1.5 | N | N | 200 |
| MZ497RC | 34 12 38 | 111 33 22 | .20 | .05 | .05 | .030 | 20 | N | N | N | 20 |
| MZ497RD | 34 12 38 | 111 33 22 | .70 | <.02 | <.05 | <.002 | 100 | N | N | N | N |
| MZ498R | 34 12 37 | 111 32 51 | 7.00 | .70 | .05 | .200 | 700 | 2.0 | N | N | 2,000 |
| MZ498RA | 34 12 37 | 111 32 51 | 10.00 | 1.00 | .07 | .200 | 1,000 | 2.0 | N | N | >2,000 |

TABLE 3.--continued

| Sample | Ba-ppm s | 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 | Sb-ppm s |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MZ486RE | N | <1.0 | N | N | N | N | 2,000 | 30 | 10 | N | 5 | 1,500 | N |
| MZ486RF | 1,500 | 2.0 | N | N | 70 | 20 | >20,000 | 30 | 5 | N | 15 | 100 | N |
| MZ486RG | 200 | 1.0 | 50 | N | 15 | 10 | 2,000 | 20 | 20 | 70 | 5 | 2,000 | N |
| MZ486RH | 150 | 1.0 | 30 | N | N | N | >20,000 | 50 | 10 | 30 | <5 | 20,000 | N |
| MZ486RI | 500 | <1.0 | 50 | N | N | 15 | 3,000 | N | 10 | 30 | <5 | 10,000 | N |
| MZ486RJ | 100 | <1.0 | N | N | 5 | N | 3,000 | N | N | N | <5 | 50 | N |
| MZ487R | 1,500 | <1.0 | 150 | N | 5 | N | >20,000 | 30 | 7 | N | <5 | 50 | N |
| MZ487RA | 100 | <1.0 | 150 | N | 10 | N | 500 | N | N | N | N | 100 | 2,000 |
| MZ487RB | 300 | 1.0 | 30 | N | 7 | N | 5,000 | 30 | 10 | N | <5 | 1,000 | 500 |
| MZ487RC | 1,500 | <1.0 | 100 | N | N | N | >20,000 | 30 | 10 | N | <5 | 3,000 | 700 |
| MZ488R | N | <1.0 | N | N | N | N | 700 | 20 | N | N | <5 | 50 | N |
| MZ489R | 20 | 1.0 | N | N | N | N | 10,000 | N | 10 | 20 | N | 200 | 1,000 |
| MZ489RA | <20 | 2.0 | 100 | N | 10 | N | >20,000 | 20 | 30 | N | 5 | 20,000 | >10,000 |
| MZ492R | 700 | 2.0 | N | N | 20 | 100 | 30 | 30 | N | N | 30 | 100 | N |
| MZ492RA | 700 | 1.0 | N | N | 5 | 50 | 50 | 30 | <5 | N | 10 | 50 | N |
| MZ492RB | 1,500 | <1.0 | N | N | <5 | 50 | 50 | N | 10 | N | 7 | 20 | N |
| MZ492RC | 1,500 | 1.0 | N | N | 5 | 50 | 50 | N | N | N | 5 | 20 | N |
| MZ492RD | 1,500 | 1.0 | N | N | 15 | 30 | 50 | N | N | N | 15 | 20 | N |
| MZ492RE | 1,500 | <1.0 | N | N | 10 | 50 | 70 | N | N | N | 10 | 30 | N |
| MZ492RF | 500 | <1.0 | N | N | 15 | 20 | 100 | N | N | N | 15 | 15 | N |
| MZ492RG | 500 | <1.0 | N | N | 15 | 10 | 20 | N | N | N | 7 | 10 | N |
| MZ492RH | 200 | <1.0 | N | N | 20 | 20 | 70 | 20 | N | N | 15 | 20 | N |
| MZ492RI | 150 | <1.0 | N | N | 30 | 70 | 100 | 20 | N | N | 20 | 20 | N |
| MZ493R | 100 | 5.0 | N | 70 | 300 | 10 | >20,000 | 30 | 7 | N | 50 | 30 | N |
| MZ493RA | 100 | 3.0 | N | N | 700 | 30 | >20,000 | 30 | 7 | N | 30 | 30 | N |
| MZ494R | 500 | 1.0 | N | N | 10 | <10 | 300 | N | 10 | N | 7 | 20 | N |
| MZ494RA | 1,000 | 1.5 | N | N | 10 | 10 | 70 | 50 | N | N | 7 | 15 | N |
| MZ494RB | 1,000 | 1.5 | N | N | 7 | N | 10,000 | 50 | <5 | <20 | N | 15 | N |
| MZ494RC | 200 | 2.0 | N | N | N | N | 50 | 50 | <5 | N | N | 20 | N |
| MZ494RD | 300 | 2.0 | N | N | N | N | 20 | 50 | N | 20 | N | 10 | N |
| MZ495R | 70 | <1.0 | <10 | 100 | 5 | 300 | 500 | N | 15 | N | 20 | >20,000 | 3,000 |
| MZ495RA | 20 | <1.0 | N | N | 5 | 300 | 1,000 | N | 7 | N | 20 | 20,000 | 1,500 |
| MZ495RB | 1,000 | 1.5 | N | 100 | 50 | 2,000 | 700 | 50 | 5 | N | 70 | 3,000 | 700 |
| MZ495RC | 200 | N | N | 300 | <5 | 300 | 500 | 30 | N | 30 | <5 | >20,000 | 2,000 |
| MZ496R | 50 | N | N | N | 5 | 10 | 20 | N | N | N | 5 | 50 | N |
| MZ496RA | 500 | 1.5 | N | N | 20 | 30 | 100 | N | <5 | N | 20 | 50 | 500 |
| MZ496RB | N | N | N | N | N | N | 15 | 30 | N | N | N | <10 | N |
| MZ496RC | N | N | N | N | N | N | 15 | 30 | N | <20 | N | <10 | N |
| MZ497R | 300 | 1.0 | N | N | 15 | 50 | 15 | N | N | N | 10 | 30 | N |
| MZ497RA | 700 | 1.5 | N | N | 10 | 50 | 30 | N | N | N | 10 | 50 | N |
| MZ497RB | 1,000 | 1.5 | N | N | N | N | 30 | N | N | 20 | N | 100 | N |
| MZ497RC | 1,000 | 2.0 | N | N | N | N | 10 | N | N | 20 | N | 30 | N |
| MZ497RD | >5,000 | <1.0 | N | N | N | <10 | 50 | 20 | N | N | N | N | N |
| MZ498R | 3,000 | 2.0 | <10 | N | 15 | 50 | 100 | 70 | 7 | N | 15 | 50 | N |
| MZ498RA | 500 | 2.0 | 20 | N | 20 | 30 | 100 | 50 | N | N | 20 | 50 | N |

TABLE 3.--continued

| Sample | 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 | Au-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ486RE | N | N | N | 200 | N | N | N | N | V | N | .04 | 1.4 | 450.0 |
| MZ486RF | 7 | N | <100 | 100 | N | 15 | 1,500 | 150 | N | N | .30 | >1.0 | >1.0 |
| MZ486RG | N | N | N | 30 | N | 10 | 700 | <100 | <100 | .40 | .55 | 1.3 | 430.0 |
| MZ486RH | N | N | 150 | <10 | N | 15 | N | <10 | V | .55 | 2.00 | 10.0 | 39,000.0 |
| MZ486RI | <5 | N | <100 | 100 | N | 10 | 1,000 | 70 | V | N | 10.00 | 6.3 | 440.0 |
| MZ486RJ | N | N | N | <10 | N | N | N | 10 | V | N | .90 | .2 | 330.0 |
| MZ487R | N | N | <100 | <10 | N | N | N | N | V | .55 | 18.00 | 6.1 | >1.0 |
| MZ487RA | N | N | 150 | <10 | N | N | N | N | <100 | .05 | >40.00 | 5.4 | 95,000.0 |
| MZ487RB | N | N | N | <10 | N | N | N | N | V | 4.75 | >40.00 | 1.6 | 215,000.0 |
| MZ487RC | N | N | 150 | <10 | N | N | N | N | V | 5.25 | >40.00 | 2.7 | >1.0 |
| MZ488R | N | N | <100 | <10 | N | N | N | N | V | N | .90 | N | 570.0 |
| MZ489 | 5 | N | 100 | <10 | N | 20 | 300 | 100 | V | .25 | 6.00 | .1 | >1.0 |
| MZ489A | <5 | N | 150 | <10 | N | 10 | 200 | 50 | V | 21.00 | 13.00 | 8.5 | >1.0 |
| MZ492R | 10 | N | 200 | 20 | N | 20 | <200 | 100 | V | N | .20 | .1 | 15.0 |
| MZ492RA | 10 | 10 | 200 | 200 | N | 10 | 200 | 30 | V | N | .35 | 1.7 | 15.0 |
| MZ492RB | 15 | 10 | 200 | 200 | N | <10 | 200 | 30 | V | N | .20 | .9 | 10.0 |
| MZ492RC | 15 | N | 200 | 300 | N | 10 | N | 50 | V | <.05 | .20 | .5 | 15.0 |
| MZ492RD | 20 | N | 300 | 200 | N | <10 | <200 | 50 | V | <.05 | .21 | .2 | 20.0 |
| MZ492RE | 20 | N | 200 | 300 | N | 10 | <200 | 70 | V | <.05 | .12 | .1 | 20.0 |
| MZ492RF | 15 | N | 150 | 150 | N | 10 | <200 | 30 | V | <.05 | .30 | .9 | 170.0 |
| MZ492RG | 20 | N | 100 | 100 | N | <10 | <200 | 30 | V | N | .25 | N | 25.0 |
| MZ492RH | 10 | N | 100 | 50 | N | 15 | <200 | 30 | V | <.05 | .21 | .1 | 90.0 |
| MZ492RI | 20 | N | 200 | 100 | N | 15 | 200 | 50 | V | N | .20 | .2 | 130.0 |
| MZ493R | 15 | N | 200 | 70 | N | 30 | >10,000 | 50 | 100 | N | .25 | 1.2 | >1.0 |
| MZ493RA | 15 | N | 200 | 70 | N | 15 | >10,000 | 50 | V | N | .25 | 1.4 | >1.0 |
| MZ494R | 10 | N | N | 50 | N | 10 | 200 | 70 | V | N | .20 | .4 | 160.0 |
| MZ494RA | 10 | N | N | 30 | N | 15 | <200 | 100 | V | N | .25 | .1 | 45.0 |
| MZ494RB | 7 | N | 100 | 20 | N | 15 | N | 100 | V | N | 2.00 | 1.3 | >1.0 |
| MZ494RC | N | N | N | <10 | N | 15 | N | 50 | V | N | .25 | N | 20.0 |
| MZ494RD | N | N | N | <10 | N | 20 | 200 | 70 | V | N | .21 | N | 10.0 |
| MZ495R | 10 | <10 | 200 | 100 | N | <10 | 5,000 | 20 | V | 2.25 | 2.50 | 1.1 | 290.0 |
| MZ495RA | 10 | N | 150 | 50 | N | N | 1,500 | 10 | N | 4.90 | 2.00 | .8 | 1,700.0 |
| MZ495RB | 15 | 30 | 100 | 150 | N | 20 | >10,000 | 50 | V | <.05 | 1.30 | 1.2 | 710.0 |
| MZ495RC | 10 | <10 | 300 | 70 | N | 15 | 7,000 | 30 | V | 7.10 | 14.00 | 1.5 | 200.0 |
| MZ496R | 5 | N | <100 | 10 | N | N | N | N | V | N | 1.40 | .4 | 20.0 |
| MZ496RA | 10 | N | <100 | 50 | N | 15 | <200 | 15 | V | N | >40.00 | .1 | 50.0 |
| MZ496RB | N | N | N | <10 | N | N | N | N | V | N | 8.00 | N | 5.0 |
| MZ496RC | N | N | N | <10 | N | N | N | N | V | N | 6.00 | N | 10.0 |
| MZ497R | 10 | N | 200 | 50 | N | 10 | <200 | 70 | V | N | .20 | N | 10.0 |
| MZ497RA | 10 | 20 | 500 | 50 | N | 10 | N | 100 | V | <.05 | .20 | N | 25.0 |
| MZ497RB | 5 | 15 | 100 | 15 | N | 20 | N | 100 | V | N | .40 | .2 | 30.0 |
| MZ497RC | <5 | N | 100 | 10 | N | 20 | N | 100 | V | N | .08 | N | <5.0 |
| MZ497RD | 10 | N | >5,000 | 15 | N | N | N | N | V | <.05 | .40 | N | 65.0 |
| MZ498R | 10 | 70 | 200 | 50 | N | 15 | 500 | 100 | V | N | .20 | .7 | 160.0 |
| MZ498RA | 10 | 50 | 200 | 50 | N | 15 | 1,000 | 100 | V | N | .21 | 1.1 | 130.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| MZ486RE | 1,000 | 20 | 1.60 | .60 | 1 | 3 | 160 | Fe oxide zone; qtz rich with yellow (As?) coatings, Cu Camp Creek mine |
| MZ486RF | 75 | 4,200 | 1.40 | 9.75 | 3 | N | 30 | Altered schist; abundant sec. Cu on fracture and bedding surfaces |
| MZ486RG | 550 | 80 | .60 | .20 | 3 | 10 | 120 | Fe oxide zone; qtz rich with yellow-green (As?) coatings, from pros. pit |
| MZ486RH | 8,300 | 90 | N | .10 | 2 | 20 | 160 | Central part of Fe oxide zone; abundant sec. Cu, from prospect pit |
| MZ486RI | 1,300 | 20 | .05 | <.05 | 7 | 14 | 160 | Fe oxide from footwall; yellow-green (As?) sec. mineral, from pros. pit |
| MZ486RJ | 35 | 80 | .65 | N | N | N | 10 | Qtz vein; 6cm thick, fractured, with Fe oxides and green sec. mineral |
| MZ487R | 30 | 20 | 26.40 | .45 | 260 | 26 | 60 | Meta-volcanic; abundant sec. Cu, from mine shaft |
| MZ487RA | 25 | 30 | 137.00 | .40 | 180 | 2,300 | 80 | Meta-volcanic; highly siliceous with abundant sec. Cu, from pros. pit |
| MZ487RB | 140 | 50 | 32.80 | .15 | 4 | 350 | 80 | Meta-volcanic conglomerate; abundant qtz and sec. Cu, from pros. pit |
| MZ487RC | 3,900 | 20 | 103.00 | .30 | 34 | 500 | 160 | Meta-volcanic conglomerate; abundant qtz and sec. Cu, from pros. pit |
| MZ488R | 55 | 5 | 1.45 | N | N | 6 | N | Hematite-qtz zone |
| MZ489R | 90 | 65 | 23.20 | .20 | N | 1,800 | 60 | Phyllite; silicified with sec. Cu on fractures, from mine shaft |
| MZ489RA | 13,000 | 310 | 195.00 | 6.60 | 7 | >1 | 2,400 | Silicified zone at margin of dike; abundant sec. Cu on fracture surfaces |
| MZ492R | 40 | 5 | .35 | <.05 | 1 | 1 | 60 | Meta-sediment; hematite and possible sulfides |
| MZ492RA | 15 | 35 | .05 | N | 1 | 2 | 10 | Meta-volcanics; altered zone with Fe oxide stockwork like veins |
| MZ492RB | 5 | 5 | <.05 | N | 1 | N | 10 | Shear zone in meta-volcanics; coarse sericite and abundant Fe oxides |
| MZ492RC | <5 | 10 | N | <.05 | 1 | 1 | 20 | Meta-volcanics; very altered with Fe oxides |
| MZ492RD | 10 | <5 | <.05 | .05 | 2 | 1 | 160 | Pyrite bearing zone; with sericite and qtz |
| MZ492RE | 10 | 10 | .05 | <.05 | 1 | N | <10 | Pyrite bearing zone; very altered with sericite and yellow sec. (Fe?) |
| MZ492RF | 10 | 80 | .10 | <.05 | 1 | 10 | 160 | Pyrite bearing zone; weathered and fresh pyrite |
| MZ492RG | 5 | 20 | <.05 | .10 | 1 | N | <10 | Coarse meta-igneous rock |
| MZ492RH | 20 | 110 | <.05 | 2.45 | 1 | N | 10 | Altered greenstone (propylitic); epidote, calcite, and Fe oxides |
| MZ492RI | 10 | 130 | <.05 | .15 | 1 | N | N | Greenstone; with epidote, calcite, and green mica |
| MZ493R | 10 | 21,000 | .75 | 20.80 | 5 | 2 | 40 | Meta-volcanics; abundant sec. Cu and Fe oxides, from mine adit |
| MZ493RA | 15 | 33,000 | .65 | 12.00 | 4 | 2 | 40 | Meta-volcanics; abundant sec. Cu, and Fe and Mn oxides |
| MZ494R | 10 | 130 | .05 | .10 | 1 | 6 | 20 | Phyllite; Fe oxide stained |
| MZ494RA | 5 | 45 | N | <.05 | 1 | N | <10 | Phyllite; Fe oxide vein and relic pyrite |
| MZ494RB | 10 | 85 | 6.30 | .20 | 3 | 55 | 80 | Schist; sec. Cu along schistosity, from prospect pit |
| MZ494RC | 15 | 30 | N | <.05 | N | 1 | <10 | Payson Granite; sheared, brecciated, and qtz veined |
| MZ494RD | 15 | 70 | N | .10 | 1 | N | 20 | Qtz vein; from fault zone, with Fe oxides |
| MZ495R | 3,300 | 860 | 85.00 | 34.40 | 1 | 1,400 | >1 | Altered zone in schist; hanging wall, very altered with sec. (As) min. |
| MZ495RA | 3,300 | 710 | 176.00 | 264.00 | 1 | 1,200 | >1 | Altered zone in schist; foot wall, Fe oxides and yellow sec. (As) min. |
| MZ495RB | 890 | 21,000 | 74.00 | 10.60 | N | 400 | 1,600 | Altered zone in schist; foot wall, abundant Fe oxides |
| MZ495RC | 7,000 | 930 | 216.00 | 324.00 | N | 600 | >1 | Fe oxide gossan outcrop at Story mine |
| MZ496R | 45 | 20 | .30 | .30 | 2 | 4 | <10 | Qtz vein; from open pit at Sunflower mine |
| MZ496RA | 25 | 25 | .05 | .15 | 1 | 400 | 160 | Fe oxide gossan; from Sunflower mine |
| MZ496RB | 10 | 10 | N | .05 | 1 | 2 | 20 | Jasperoid; banded Fe fm between Story and Sunflower mines |
| MZ496RC | 5 | 15 | .05 | <.05 | 2 | 2 | 60 | Gossan in jasperoid; yellow Fe oxides, banded Fe fm |
| MZ497R | 10 | 150 | N | .05 | 1 | N | 20 | Meta-sediment |
| MZ497RA | 20 | 65 | N | .05 | 1 | N | 20 | Meta-sediment; tourmaline bearing |
| MZ497RB | 70 | 10 | .20 | .10 | 2 | 20 | 10 | Dike (rhyolite?); tourmaline bearing |
| MZ497RC | 15 | 5 | <.05 | .05 | 1 | 1 | <10 | Rhyolite qtz porphyry dike; tourmaline bearing |
| MZ497RD | N | <5 | .05 | N | 1 | 7 | <10 | Barite; float sample |
| MZ498R | <5 | 370 | .60 | .20 | 3 | 7 | 80 | Silicified zone in meta-sediments; with tourmaline and Fe and Mn oxides |
| MZ498RA | 5 | 1,000 | .60 | <.05 | 5 | 8 | 40 | Meta-sediment; tourmaline bearing |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. s | Mg-pct. s | Ca-pct. s | Ti-pct. s | Mn-dpm s | Ag-dpm s | As-dpm s | Au-dpm s | B-dpm s |
|---------|----------|-----------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| MZ504R | 34 6 2 | 111 45 18 | 3.00 | .50 | .70 | .300 | 700 | .7 | N | N | 30 |
| MZ504RA | 34 5 58 | 111 45 25 | 2.00 | .50 | 1.00 | .200 | 1,000 | .5 | N | N | 30 |
| MZ504RB | 34 5 59 | 111 45 30 | 2.00 | .50 | 1.00 | .200 | 1,000 | .5 | N | N | 50 |
| MZ504RC | 34 5 59 | 111 45 32 | 2.00 | .20 | .20 | .200 | 2,000 | 1.0 | N | N | 50 |
| MZ505R | 34 12 45 | 111 33 5 | 10.00 | .70 | .07 | .500 | 1,000 | 1.5 | <200 | N | 500 |
| MZ505RA | 34 12 44 | 111 33 4 | 7.00 | 2.00 | 1.50 | .500 | 5,000 | 1.0 | N | N | >2,000 |
| MZ506R | 34 12 43 | 111 32 58 | 7.00 | 2.00 | .70 | .500 | 1,500 | 1.5 | N | N | >2,000 |
| MZ507R | 34 12 46 | 111 32 58 | 10.00 | 2.00 | .50 | .700 | 500 | 5.0 | N | N | >2,000 |
| MZ508R | 34 12 49 | 111 32 57 | 10.00 | 2.00 | 2.00 | .500 | 5,000 | 1.0 | <200 | N | 500 |
| MZ509R | 34 12 15 | 111 32 53 | 10.00 | 3.00 | .50 | .700 | 3,000 | 5.0 | N | N | >2,000 |
| MZ510R | 34 12 39 | 111 32 51 | 10.00 | 2.00 | .10 | .700 | 5,000 | 5.0 | N | N | 2,000 |
| MZ511R | 34 12 36 | 111 32 51 | 7.00 | 2.00 | .30 | .500 | 1,500 | .7 | N | N | >2,000 |
| MZ512R | 34 12 28 | 111 32 51 | 10.00 | 3.00 | .50 | .700 | 5,000 | 1.5 | N | N | >2,000 |
| MZ513R | 34 12 24 | 111 33 1 | 10.00 | 3.00 | .20 | .700 | 3,000 | .5 | N | N | >2,000 |
| MZ514R | 34 12 32 | 111 33 2 | 10.00 | .70 | .10 | .700 | 5,000 | 1.0 | <200 | N | 1,000 |
| MZ515R | 34 12 34 | 111 33 5 | 5.00 | .20 | <.05 | .200 | 150 | 5.0 | N | N | 500 |
| MZ516R | 34 12 46 | 111 33 16 | 10.00 | 3.00 | 1.50 | .700 | 5,000 | .7 | N | N | >2,000 |
| MZ517R | 34 12 45 | 111 33 15 | 10.00 | 2.00 | 1.00 | .500 | 1,500 | N | 500 | N | >2,000 |
| MZ518R | 34 12 32 | 111 33 21 | .70 | .10 | .10 | .100 | 100 | 1.5 | N | N | 100 |
| MZ519R | 34 12 30 | 111 33 29 | 10.00 | 3.00 | 2.00 | .500 | 3,000 | 3.0 | N | N | >2,000 |
| MZ519RA | 34 12 30 | 111 33 29 | 2.00 | .50 | .20 | .500 | 200 | .7 | N | N | 500 |
| MZ520R | 34 12 56 | 111 33 29 | 5.00 | .50 | .05 | .070 | 1,000 | 7.0 | 300 | N | 200 |
| MZ520RA | 34 12 26 | 111 33 31 | 1.00 | .10 | .10 | .100 | 200 | 1.5 | N | N | 100 |
| MZ521R | 34 12 23 | 111 33 25 | 10.00 | 1.00 | .10 | .500 | 2,000 | 3.0 | 2,000 | N | 2,000 |
| MZ522R | 34 12 23 | 111 33 29 | 15.00 | .70 | .20 | .300 | 300 | 7.0 | >10,000 | N | >2,000 |
| MZ523R | 34 4 38 | 111 46 24 | 15.00 | .20 | .20 | .200 | 100 | 2.0 | N | N | 20 |
| MZ523RA | 34 4 38 | 111 46 24 | 3.00 | .20 | .15 | .300 | 70 | .5 | N | N | 50 |
| MZ524R | 34 4 46 | 111 45 58 | 3.00 | .50 | 1.00 | .200 | 70 | N | N | N | 10 |
| MZ525R | 34 4 52 | 111 45 58 | .50 | .10 | .10 | .015 | 100 | N | N | N | 10 |
| MZ526R | 34 4 56 | 111 45 57 | 2.00 | .50 | .50 | .300 | 100 | N | N | N | 10 |
| MZ527R | 34 4 24 | 111 45 43 | 5.00 | .10 | .15 | .050 | 500 | N | N | N | 20 |
| MZ528R | 34 4 53 | 111 45 23 | 3.00 | .50 | 1.00 | .200 | 200 | N | N | N | 10 |
| MZ529R | 34 4 59 | 111 45 20 | 2.00 | .50 | .10 | .200 | 300 | N | N | N | 20 |
| MZ530R | 34 5 1 | 111 45 9 | 3.00 | .50 | .70 | .200 | 300 | 1.0 | N | N | 10 |
| MZ530RA | 34 5 1 | 111 45 4 | 2.00 | .20 | 1.50 | .200 | 100 | N | N | N | 20 |
| MZ531R | 34 5 5 | 111 44 48 | 10.00 | 7.00 | 10.00 | 1.000 | 100 | N | N | N | 20 |
| MZ532R | 34 5 7 | 111 44 46 | 1.00 | .10 | .10 | .100 | 500 | N | N | N | 20 |
| MZ532RA | 34 5 7 | 111 44 46 | .50 | .10 | .05 | .230 | 200 | N | N | N | 20 |
| MZ532RB | 34 5 6 | 111 44 44 | .70 | .15 | .10 | .020 | N | N | N | N | 20 |
| MZ532RC | 34 5 6 | 111 44 44 | .20 | .05 | .05 | .010 | 70 | N | N | N | 10 |
| MZ533R | 34 5 8 | 111 44 46 | .20 | .07 | .05 | .015 | 150 | N | N | N | 20 |
| MZ534R | 34 5 12 | 111 44 47 | .50 | .10 | .05 | .010 | 200 | N | N | N | 20 |
| MZ535R | 34 5 20 | 111 44 53 | .20 | .50 | .05 | .070 | 200 | N | N | N | 10 |
| MZ536R | 33 58 7 | 111 30 22 | 5.00 | .50 | <.05 | .700 | 200 | 1.5 | >10,000 | N | 100 |
| MZ537R | 33 58 9 | 111 30 26 | 3.00 | .20 | <.05 | <.002 | 70 | 3.0 | 1,000 | N | 150 |

TABLE 3.--continued

| Sample | Ba-ppm S | 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 | Sb-ppm S |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MZ504R | 1,500 | 3.0 | <10 | N | 5 | N | 150 | 150 | N | 20 | 5 | 30 | N |
| MZ504RA | 2,000 | 3.0 | N | N | 7 | N | 100 | 100 | 30 | <20 | 5 | 50 | N |
| MZ504RB | 2,000 | 3.0 | N | <10 | <5 | <10 | 100 | 150 | 5 | <20 | <5 | 30 | N |
| MZ504RC | 1,500 | 10.0 | N | N | <5 | N | 15 | 50 | <5 | 30 | 10 | 50 | N |
| MZ505R | 1,500 | 7.0 | N | 100 | 5 | 100 | 1,000 | 70 | N | <20 | 20 | 500 | N |
| MZ505RA | 2,000 | 3.0 | N | 200 | 30 | 200 | 150 | 50 | N | N | 50 | 300 | N |
| MZ506R | 150 | 1.5 | 30 | N | 20 | 150 | 2,000 | 30 | N | N | 50 | 30 | 500 |
| MZ507R | 100 | 2.0 | N | 300 | 50 | 300 | 300 | 50 | 30 | 20 | 70 | 3,000 | N |
| MZ508R | 2,000 | 7.0 | 50 | 200 | 30 | 200 | 50 | 100 | N | 20 | 50 | 500 | N |
| MZ509R | 1,500 | 3.0 | N | 200 | 30 | 200 | 100 | 70 | N | 20 | 50 | 300 | N |
| MZ510R | 1,000 | 5.0 | N | 100 | 20 | 100 | 700 | 100 | N | 20 | 50 | 100 | N |
| MZ511R | 70 | 5.0 | N | 150 | 30 | 150 | 10 | <20 | N | <20 | 70 | 20 | N |
| MZ512R | 300 | 3.0 | N | 100 | 50 | 100 | 30 | 100 | N | 20 | 50 | 100 | N |
| MZ513R | 70 | 7.0 | 15 | 100 | 50 | 100 | 30 | 100 | N | 20 | 70 | 50 | N |
| MZ514R | 2,000 | 5.0 | N | 150 | 50 | 150 | 300 | 70 | 7 | 20 | 70 | 50 | N |
| MZ515R | 500 | 3.0 | <10 | N | 7 | 50 | 70 | 20 | 7 | <20 | 15 | 30 | <100 |
| MZ516R | 1,000 | 2.0 | N | 200 | 30 | 200 | 150 | 20 | N | <20 | 50 | 300 | N |
| MZ517R | 500 | 2.0 | N | 200 | 20 | 200 | 50 | <20 | N | <20 | 50 | 50 | N |
| MZ518R | 1,000 | 3.0 | N | N | N | N | 30 | 100 | N | 50 | 5 | 200 | N |
| MZ519R | 700 | 3.0 | N | 200 | 30 | 200 | 200 | 50 | N | <20 | 50 | 1,000 | N |
| MZ519RA | 300 | 5.0 | N | 150 | 5 | 150 | 20 | 30 | N | 20 | 30 | 20 | N |
| MZ520R | 700 | 10.0 | 15 | N | <5 | 10 | 150 | 30 | 5 | 50 | 5 | 1,000 | N |
| MZ520RA | 1,500 | 2.0 | N | N | <5 | N | 50 | <20 | N | 50 | 7 | 200 | N |
| MZ521R | 1,000 | 7.0 | N | 100 | 10 | 100 | 200 | 100 | 5 | <20 | 30 | 1,500 | N |
| MZ522R | 1,000 | 7.0 | 50 | 150 | 5 | 70 | 1,500 | 70 | 10 | <20 | 20 | 1,000 | 70 |
| MZ523R | 500 | 2.0 | N | N | <5 | N | 30 | 130 | N | 20 | 5 | 300 | N |
| MZ523RA | 1,000 | 3.0 | N | N | <5 | N | 30 | 70 | <5 | <20 | 5 | 300 | N |
| MZ524R | 700 | 2.0 | N | N | <5 | N | 10 | 70 | N | <20 | 5 | 70 | N |
| MZ525R | 70 | 1.0 | N | N | <5 | N | <5 | 20 | N | <20 | <5 | 20 | N |
| MZ526R | 300 | 2.0 | N | N | <5 | N | 7 | 50 | N | <20 | 5 | 20 | N |
| MZ527R | 700 | 30.0 | N | N | <5 | N | 15 | 20 | 15 | <20 | 5 | 50 | N |
| MZ528R | 700 | 2.0 | N | N | <5 | N | 10 | 200 | N | <20 | 5 | 70 | N |
| MZ529R | 300 | 2.0 | N | N | <5 | N | 7 | 100 | N | <20 | 5 | 50 | N |
| MZ530R | 700 | 2.0 | N | N | 10 | N | 1,000 | 100 | 70 | <20 | 10 | 500 | N |
| MZ530RA | 300 | 3.0 | N | N | <5 | N | 10 | 100 | N | <20 | <5 | 50 | N |
| MZ531R | 1,000 | 1.0 | N | N | 70 | 300 | 100 | 200 | N | 30 | 100 | 50 | N |
| MZ532R | 300 | 1.5 | N | N | N | N | 150 | 200 | N | <20 | 5 | 30 | N |
| MZ532RA | 150 | 1.5 | N | N | N | N | 150 | 50 | N | <20 | <5 | 20 | N |
| MZ532RB | 100 | 3.0 | N | N | <5 | N | 500 | 50 | N | <20 | 5 | 20 | N |
| MZ532RC | 20 | 1.5 | N | N | N | N | 500 | <20 | N | <20 | 5 | 10 | N |
| MZ533R | 200 | 1.5 | N | N | N | N | 70 | 100 | N | <20 | 5 | 10 | N |
| MZ534R | <20 | 2.0 | N | N | N | N | 30 | 100 | N | <20 | 5 | 10 | N |
| MZ535R | 200 | 2.0 | 30 | N | N | N | 100 | 100 | N | <20 | <5 | 200 | N |
| MZ536R | 700 | 2.0 | N | N | 5 | N | 100 | 50 | N | <20 | <5 | 50 | N |
| MZ537R | 500 | 3.0 | N | N | N | N | 100 | <20 | N | <20 | <5 | 50 | 200 |

TABLE 3.--continued

| Sample | 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 | Au-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ504R | 7 | N | 300 | 50 | N | 50 | N | 200 | N | N | .02 | .2 | 80.0 |
| MZ504RA | 10 | N | 500 | 50 | <50 | 30 | N | 200 | V | <.05 | <.02 | .2 | 50.0 |
| MZ504RB | 10 | 10 | 500 | 70 | N | 20 | N | 300 | V | N | <.02 | .1 | 50.0 |
| MZ504RC | 5 | <10 | 1,000 | 100 | N | 30 | N | 300 | V | N | <.02 | .2 | 5.0 |
| MZ505R | 20 | 200 | 150 | 200 | N | 20 | 5,000 | 150 | V | N | <.02 | .4 | 300.0 |
| MZ505RA | 30 | 70 | 700 | 300 | N | 20 | 500 | 100 | V | N | <.02 | .3 | 40.0 |
| MZ506R | 15 | >1,000 | 300 | 300 | N | 15 | N | 100 | 150 | N | <.02 | .6 | 500.0 |
| MZ507R | 30 | 15 | 200 | 300 | N | 30 | 200 | 200 | V | N | .18 | 1.5 | 240.0 |
| MZ508R | 30 | N | 1,000 | 300 | <50 | 30 | 300 | 200 | V | N | <.02 | 6.5 | 30.0 |
| MZ509R | 30 | 100 | 200 | 200 | N | 50 | 1,500 | 200 | V | N | <.02 | .4 | 40.0 |
| MZ510R | 20 | 300 | 200 | 200 | <50 | 50 | 1,500 | 200 | V | N | .18 | .3 | 300.0 |
| MZ511R | 20 | 200 | 300 | 200 | N | 30 | <200 | 200 | V | N | <.02 | 1.4 | <5.0 |
| MZ512R | 20 | 200 | 300 | 150 | N | 30 | 1,000 | 200 | V | N | .08 | .5 | 5.0 |
| MZ513R | 30 | 50 | 200 | 150 | N | 50 | 1,500 | 200 | V | N | .02 | 1.7 | 10.0 |
| MZ514R | 30 | 70 | 500 | 200 | N | 50 | 300 | 200 | V | N | .06 | .4 | 120.0 |
| MZ515R | 7 | 70 | 500 | 100 | N | 15 | N | 70 | V | N | .04 | .2 | 35.0 |
| MZ516R | 30 | N | 500 | 200 | N | 30 | 300 | 150 | V | N | <.02 | .5 | 80.0 |
| MZ517R | 30 | N | 700 | 200 | N | 20 | N | 70 | V | N | <.02 | .6 | 20.0 |
| MZ518R | 10 | 10 | 100 | 200 | N | 100 | N | 200 | V | N | .02 | .3 | 20.0 |
| MZ519R | 20 | 20 | 700 | 200 | N | 20 | 200 | 150 | V | N | .06 | .5 | 100.0 |
| MZ519RA | 10 | <10 | N | 150 | N | 15 | N | 200 | V | N | .02 | .9 | 5.0 |
| MZ520R | 10 | 500 | N | 200 | N | 100 | 700 | 300 | V | N | .04 | .3 | 25.0 |
| MZ520RA | 7 | 30 | 200 | 50 | N | 70 | N | 300 | V | N | .04 | .3 | 60.0 |
| MZ521R | 20 | >1,000 | 200 | 200 | <50 | 20 | 1,000 | 150 | <100 | N | .08 | .2 | 100.0 |
| MZ522R | 15 | 500 | >5,000 | 150 | <50 | 50 | 500 | 100 | V | N | .10 | .8 | 400.0 |
| MZ523R | 10 | N | 100 | 20 | N | 70 | N | 100 | V | N | .10 | N | 15.0 |
| MZ523RA | 10 | N | 100 | 50 | N | 70 | N | 300 | V | N | .06 | N | 10.0 |
| MZ524R | N | N | 200 | 30 | N | 70 | N | 200 | V | N | .04 | N | 5.0 |
| MZ525R | 7 | N | N | 10 | N | 10 | <200 | <10 | V | N | <.02 | N | N |
| MZ526R | 7 | N | 100 | 30 | N | 70 | N | 300 | V | N | .04 | N | <5.0 |
| MZ527R | 10 | N | N | 100 | N | 50 | N | 200 | V | N | .14 | N | 15.0 |
| MZ528R | 7 | N | 150 | 50 | N | 200 | N | 200 | V | N | <.02 | N | 5.0 |
| MZ529R | 7 | N | <100 | 20 | N | 70 | N | 200 | V | N | .40 | N | <5.0 |
| MZ530R | 7 | N | 100 | 20 | N | 70 | N | 200 | V | .05 | .16 | N | |
| MZ530RA | 10 | 10 | 100 | 30 | N | 70 | N | 300 | V | N | .08 | N | 1,000.0 |
| MZ531R | 30 | N | 2,000 | 200 | N | 50 | N | 200 | V | N | .08 | N | 80.0 |
| MZ532R | 5 | N | 100 | 10 | N | 50 | N | 100 | V | N | <.02 | N | 230.0 |
| MZ532RA | N | N | N | 10 | N | 10 | N | 50 | V | N | <.02 | N | 190.0 |
| MZ532RB | N | N | N | 10 | N | 50 | N | 70 | V | <.05 | <.02 | N | 320.0 |
| MZ532RC | N | N | N | 10 | N | <10 | N | N | V | N | <.02 | N | 440.0 |
| MZ533R | N | N | N | 10 | N | 50 | N | 70 | V | N | <.02 | N | 120.0 |
| MZ534R | N | N | N | 10 | N | 50 | N | 20 | V | N | <.02 | N | 75.0 |
| MZ535R | N | N | N | 50 | N | 70 | N | 100 | V | N | <.02 | N | 100.0 |
| MZ536R | 20 | N | <100 | 50 | <50 | 30 | N | 300 | N | .20 | .12 | .9 | 60.0 |
| MZ537R | N | N | N | <10 | N | 20 | 200 | 50 | V | .05 | .60 | .5 | 95.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| MZ504R | 10 | 100 | .15 | <.05 | N | 1 | 10 | Monzonite |
| MZ504RA | 20 | 60 | .20 | <.05 | N | 1 | <10 | Monzonite; Fe oxide stained |
| MZ504RB | 10 | 60 | .20 | <.05 | N | N | <10 | Monzonite; Fe oxide after mafic minerals |
| MZ504RC | 15 | 60 | .05 | .10 | N | 1 | <10 | Trachyte dike |
| MZ505R | 100 | 600 | .35 | 2.50 | N | 7 | 30 | Meta-sediment; abundant tourmaline on fracture surfaces |
| MZ505RA | 120 | 210 | .20 | .20 | N | 3 | 10 | Meta-sediment; yellow-green stains (As?) |
| MZ506R | 15 | 70 | .30 | .10 | 6 | 100 | 30 | Meta-volcanic; massive tourmalinization, veins as much as 0.5cm thick |
| MZ507R | 1,100 | 240 | 1.90 | .10 | N | 2 | 140 | Meta-sediment; fine grained with abundant tourmaline, yellow-green stains |
| MZ508R | 30 | 70 | .10 | .15 | 10 | 2 | 30 | Qtz vein; 0.5cm thick with abundant tourmaline, in meta-sediment |
| MZ509R | 50 | 300 | .65 | .75 | N | 2 | 20 | Meta-sediment; fine grained with tourmaline and some Fe oxide |
| MZ510R | 10 | 500 | 1.00 | .50 | 1 | 11 | 40 | Meta-sediment; fine-grained, altered and broken with Fe and Mn oxides |
| MZ511R | <5 | 75 | .10 | .10 | N | 1 | <10 | Meta-sediment; fine grained, abundant tourmaline |
| MZ512R | 10 | 300 | .35 | .10 | N | 2 | 30 | Meta-sediment; fine grained, abundant tourmaline |
| MZ513R | <5 | 400 | .10 | .05 | N | 9 | 20 | Meta-sediment; fine grained, abundant tourmaline and Fe oxide |
| MZ514R | 5 | 150 | .20 | <.05 | N | 6 | 30 | Meta-sediment; fine grained, abundant tourmaline and Fe oxide |
| MZ515R | 5 | 65 | 1.00 | .15 | N | 34 | 40 | Silicified zone in meta-sediment; Qtz veining with abundant specularite |
| MZ516R | 80 | 210 | .20 | <.05 | N | 1 | 10 | Meta-sediment |
| MZ517R | 15 | 75 | <.05 | <.05 | N | 1 | 30 | Meta-sediment; coarse grained with abundant tourmaline, altered with Fe oxide |
| MZ518R | 60 | 25 | .25 | <.05 | N | 2 | 10 | Qtz porphyry dike; some oxidized pyrite cubes and clots of mafic minerals |
| MZ519R | 310 | 110 | 1.80 | .15 | N | 1 | 20 | Meta-sediment; coarse grained with tourmaline and some fresh sulfide (pyrite) |
| MZ519RA | 5 | 40 | .05 | <.05 | N | 2 | <10 | Meta-sediment(?); very altered, abundant Fe oxides, Qtz, and green sec. min. |
| MZ520R | 20 | 40 | .25 | .10 | N | 1 | 30 | Meta-sediment; altered, abundant oxidized pyrite and Fe oxides |
| MZ520RA | 520 | 890 | .95 | .95 | N | 5 | 10 | Qtz porphyry dike; weathered, some tourmaline |
| MZ521R | 140 | 400 | 1.30 | 3.50 | N | 6 | 600 | Meta-sediment; fine grained with Fe oxides and yellow stains |
| MZ522R | 30 | 180 | 1.30 | 59.00 | 1 | 35 | >1 | Meta-sediment; fine grained with abundant Fe oxides, vuggy with Qtz crystals |
| MZ523R | 80 | 40 | .35 | .20 | N | 20 | 70 | Monzonite porphyry; Fe oxide stained, altered mafics |
| MZ523RA | 80 | 55 | <.05 | .10 | N | N | 90 | Trachyte porphyry dike; Qtz phenocrysts, Fe and Mn oxide stained |
| MZ524R | 10 | 55 | N | .10 | N | N | 70 | Monzonite porphyry |
| MZ525R | 5 | 10 | N | N | N | N | 80 | Qtz vein; Mn oxide stains |
| MZ526R | 10 | 55 | N | N | N | N | 80 | Aplite dike; about 8cm thick |
| MZ527R | 5 | 70 | .05 | .10 | N | 1 | 190 | Payson Granite; Fe oxides on fracture surfaces |
| MZ528R | 10 | 65 | <.05 | .20 | N | N | 90 | Monzonite porphyry |
| MZ529R | 10 | 75 | <.05 | N | N | N | 100 | Payson Granite |
| MZ530R | 290 | 210 | .50 | .20 | N | N | 90 | Monzonite porphyry; some sec. Cu along small fracture |
| MZ530RA | 15 | 45 | N | .10 | N | N | 80 | Monzonite porphyry; Qtz veining with Fe oxides |
| MZ531R | 5 | 95 | <.05 | .10 | N | N | 30 | Mafic dike; in monzonite porphyry, very fine grained |
| MZ532R | 10 | 10 | <.05 | N | N | N | 60 | Qtz vein; in monzonite porphyry, some Fe oxide |
| MZ532RA | 5 | 5 | N | N | N | N | 70 | Qtz vein; granular and brecciated, some Fe oxides |
| MZ532RB | 10 | 5 | N | .10 | N | N | 90 | Qtz vein; some Fe oxides |
| MZ532RC | 5 | 5 | N | .10 | N | N | 100 | Qtz vein; Qtz xls and siderite xls in vugs with abundant Fe oxides |
| MZ533R | 10 | 5 | N | N | N | N | 120 | Qtz vein; Fe oxide stained |
| MZ534R | 5 | 10 | N | .10 | N | N | 150 | Qtz vein; vuggy with Fe oxide, 10cm thick |
| MZ535R | 120 | 5 | N | .10 | N | N | 160 | Qtz vein; vuggy with Fe oxide |
| MZ536R | 10 | 20 | .60 | .20 | N | N | >1 | Rhyolite from prospect; veinlets and masses of arsenopyrite. |
| MZ537R | 15 | 30 | 1.60 | .10 | N | 100 | 800 | Adit in McFarland Canyon; Fe oxide fracture fillings in rhyolite sill. |

TABLE 3.--continued

| Sample | Latitude | Longitude | Fe-pct. % | Mg-pct. % | Ca-pct. % | Ti-pct. % | Mn-pdm \$ | Ag-pdm \$ | As-pdm \$ | Au-pdm \$ | B-pdm \$ |
|---------|----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|
| MZ537RA | 33 58 9 | 111 30 26 | 10.00 | .05 | .05 | <.002 | 70 | 5.0 | 10,000 | N | 100 |
| MZ538R | 33 58 12 | 111 30 18 | 7.00 | 2.00 | .50 | .50 | 300 | N | N | N | 100 |
| MZ538RA | 33 58 13 | 111 30 17 | 2.00 | .20 | <.05 | <.002 | >5,000 | 7.0 | 5,000 | N | 100 |
| MZ538RB | 33 58 13 | 111 30 17 | 10.00 | .20 | <.05 | .10 | 200 | 150.0 | >10,000 | 10 | >2,000 |
| MZ538RC | 33 58 13 | 111 30 17 | 1.00 | .05 | .10 | <.002 | 1,000 | 5.0 | >10,000 | N | 50 |
| MZ538RD | 33 58 13 | 111 30 17 | 15.00 | .20 | <.05 | .100 | 500 | 30.0 | >10,000 | N | 500 |
| MZ538RE | 33 58 13 | 111 30 17 | 10.00 | .50 | <.05 | .100 | 300 | 30.0 | >10,000 | N | 1,000 |
| MZ539R | 33 58 3 | 111 30 17 | 1.00 | .30 | .05 | .100 | 500 | N | 300 | N | 150 |
| MZ540R | 33 57 42 | 111 30 15 | .20 | .05 | <.05 | <.002 | 300 | N | 200 | N | 10 |
| MZ540RA | 33 57 54 | 111 30 16 | 5.00 | .50 | <.05 | .300 | 500 | 150.0 | 10,000 | N | >2,000 |
| MZ541R | 33 57 49 | 111 30 11 | .20 | .05 | <.05 | .015 | 200 | 2.0 | N | N | 50 |
| MZ542R | 33 58 9 | 111 30 17 | 10.00 | .70 | .07 | .500 | 700 | 2.0 | 10,000 | N | >2,000 |
| MZ543R | 33 58 11 | 111 30 21 | 1.00 | .07 | <.05 | <.002 | 500 | N | 700 | N | 150 |
| MZ543RA | 33 58 11 | 111 30 21 | 2.00 | .05 | .05 | <.002 | 1,000 | 3.0 | 5,000 | N | 200 |
| MZ544R | 33 58 16 | 111 30 7 | 5.00 | 1.00 | .50 | .500 | 150 | N | N | N | 100 |
| MZ544RA | 33 58 16 | 111 30 7 | 2.00 | .50 | .07 | .200 | 100 | 15.0 | 500 | N | 500 |
| MZ544RB | 33 58 16 | 111 30 7 | 20.00 | <.02 | <.05 | .005 | 150 | 200.0 | >10,000 | 15 | <10 |
| MZ544RC | 33 58 14 | 111 30 7 | 5.00 | .20 | <.05 | .030 | 100 | 5.0 | >10,000 | N | 2,000 |
| MZ545R | 33 58 10 | 111 30 0 | 5.00 | .10 | <.05 | .050 | 70 | 10.0 | 700 | N | 150 |
| MZ546R | 33 58 10 | 111 30 0 | 2.00 | .50 | .10 | .200 | 70 | N | N | N | 150 |
| MZ547R | 33 58 10 | 111 30 0 | 5.00 | .70 | .05 | .100 | 200 | N | 3,000 | N | 2,000 |
| MZ547RA | 33 58 10 | 111 30 0 | 10.00 | .20 | <.05 | .100 | 70 | 2.0 | >10,000 | N | 500 |
| MZ548R | 33 58 8 | 111 29 58 | 7.00 | .70 | <.05 | .700 | 70 | 2.0 | 1,000 | N | 2,000 |
| MZ549R | 33 58 14 | 111 29 52 | 2.00 | .30 | .05 | .200 | 70 | 1.5 | 5,000 | N | 200 |
| MZ549RA | 33 58 14 | 111 29 52 | 20.00 | .70 | <.05 | .200 | 1,000 | 5.0 | 1,500 | N | <10 |
| MZ549RB | 33 58 14 | 111 29 52 | 7.00 | .70 | .20 | .500 | 70 | N | 2,000 | N | 200 |
| MZ550R | 33 58 18 | 111 29 53 | 5.00 | 1.00 | .50 | .500 | 500 | 10.0 | 500 | N | 100 |
| MZ550RA | 33 58 18 | 111 29 53 | 7.00 | .50 | .10 | .070 | 150 | 150.0 | >10,000 | N | >2,000 |
| MZ550RB | 33 58 18 | 111 29 53 | 10.00 | .10 | <.05 | .020 | 50 | 10.0 | >10,000 | 10 | 1,000 |
| MZ551R | 33 58 17 | 111 29 57 | 2.00 | .50 | .10 | .070 | 300 | 10.0 | 1,000 | N | 700 |
| MZ552R | 33 58 15 | 111 29 58 | 5.00 | .50 | .20 | .300 | 200 | 70.0 | 2,000 | N | 2,000 |
| MZ553R | 33 57 49 | 111 30 16 | 15.00 | .50 | .10 | .200 | >5,000 | 500.0 | >10,000 | 10 | >2,000 |
| MZ554R | 33 57 43 | 111 30 20 | 10.00 | .50 | 1.00 | .300 | 1,000 | 70.0 | >10,000 | N | 500 |
| MZ554RA | 33 57 43 | 111 30 20 | 5.00 | .20 | .15 | .020 | 5,000 | 100.0 | 200 | N | 50 |
| MZ554RB | 33 57 43 | 111 30 20 | 15.00 | .10 | .10 | .100 | 2,000 | 70.0 | >10,000 | 15 | 1,500 |
| MZ555R | 33 57 41 | 111 30 22 | 2.00 | .10 | .07 | .010 | 2,000 | 200.0 | 3,000 | N | 30 |
| MZ556R | 33 57 45 | 111 30 21 | 1.00 | .20 | .07 | .100 | 100 | N | <200 | N | 300 |
| MZ557R | 33 57 44 | 111 30 25 | 1.00 | .10 | .07 | .020 | 1,000 | 300.0 | <200 | N | 200 |
| MZ558R | 33 57 47 | 111 30 27 | 3.00 | .50 | .05 | .500 | 200 | 50.0 | 1,000 | N | >2,000 |
| MZ559R | 33 57 35 | 111 30 33 | .20 | .02 | <.05 | <.002 | 200 | N | N | N | 20 |
| MZ560R | 33 57 32 | 111 30 40 | 10.00 | .20 | .70 | .050 | 100 | 70.0 | >10,000 | N | 2,000 |
| MZ561R | 33 57 30 | 111 30 38 | 7.00 | 1.00 | 20.00 | .500 | >5,000 | <.5 | 2,000 | N | 100 |
| MZ562R | 33 57 28 | 111 30 42 | 7.00 | .10 | .20 | .005 | >5,000 | N | <200 | N | 50 |
| MZ563R | 33 56 58 | 111 30 28 | 1.00 | .10 | .05 | .002 | 500 | N | N | N | 10 |
| MZ564R | 33 57 3 | 111 30 8 | 5.00 | .10 | .07 | .300 | 700 | N | 700 | N | 500 |

TABLE 3.--continued

| Sample | Ba-ppm \$ | Be-ppm \$ | Bi-ppm \$ | Cd-ppm \$ | Co-ppm \$ | Cr-ppm \$ | Cu-ppm \$ | La-ppm \$ | Mo-ppm \$ | Nb-ppm \$ | Ni-ppm \$ | Pb-ppm \$ | Sb-ppm \$ |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| MZ537RA | 200 | 2.0 | 10 | N | N | N | 5 | <20 | N | <20 | <5 | 70 | 200 |
| MZ538R | 500 | 1.5 | N | N | 70 | 150 | 50 | 50 | N | <20 | 50 | 15 | <100 |
| MZ538RA | 500 | 2.0 | <10 | N | <5 | N | 300 | <20 | N | <20 | <20 | 50 | 200 |
| MZ538RB | 100 | 2.0 | 200 | 50 | 5 | 20 | 5,000 | <20 | N | <20 | 15 | 10,000 | 3,000 |
| MZ538RC | <20 | <1.0 | 500 | N | N | N | 200 | <20 | N | <20 | <5 | 500 | 500 |
| MZ538RD | 200 | 1.0 | 300 | N | 10 | 30 | 1,000 | <20 | 20 | <20 | 10 | 2,000 | 700 |
| MZ538RE | 300 | 2.0 | 200 | N | 15 | 50 | 1,000 | 30 | <5 | <20 | 30 | 2,000 | 700 |
| MZ539R | 500 | 2.0 | N | N | N | N | 20 | 20 | N | <20 | <5 | 50 | N |
| MZ540R | <20 | N | N | N | N | N | <5 | <20 | N | <20 | <5 | 10 | N |
| MZ540RA | 200 | N | N | N | <5 | 1,000 | 500 | 20 | <5 | <20 | 10 | 20,000 | N |
| MZ541R | 70 | <1.0 | N | N | N | N | 5 | <20 | N | <20 | N | 100 | N |
| MZ542R | 500 | 3.0 | 70 | N | N | 50 | 70 | 50 | N | <20 | 7 | 500 | N |
| MZ543R | 200 | 2.0 | N | N | N | N | 50 | <20 | N | <20 | <5 | 100 | N |
| MZ543RA | 300 | 3.0 | 20 | N | N | N | 500 | <20 | N | <20 | <5 | 50 | 200 |
| MZ544R | 300 | 1.0 | N | N | 5 | 200 | 100 | 50 | N | <20 | 100 | 30 | N |
| MZ544RA | 200 | 1.0 | 200 | N | <5 | 70 | 70 | 20 | N | <20 | 5 | 500 | 300 |
| MZ544RB | 50 | N | 200 | N | N | N | 2,000 | <20 | N | <20 | <5 | 20,000 | 1,500 |
| MZ544RC | <20 | 2.0 | 100 | N | <5 | N | 100 | <20 | N | <20 | 7 | 1,000 | 200 |
| MZ545R | 300 | 2.0 | 50 | N | <5 | N | 700 | <20 | N | <20 | <5 | 150 | 500 |
| MZ546R | 700 | 1.5 | N | N | <5 | N | 50 | 100 | N | <20 | <5 | 70 | N |
| MZ547R | 200 | 5.0 | N | N | N | N | 15 | <20 | N | <20 | <5 | 50 | N |
| MZ547RA | 500 | 3.0 | <10 | N | N | N | 150 | 70 | N | <20 | <5 | 1,000 | 300 |
| MZ548R | 500 | 2.0 | 30 | N | <5 | 70 | <5 | <20 | N | <20 | <5 | 150 | <100 |
| MZ549R | 500 | 2.0 | N | N | N | N | 50 | 30 | N | <20 | <5 | 100 | <100 |
| MZ549RA | 100 | 1.5 | 20 | N | 50 | 20 | 500 | 30 | N | <20 | 50 | 50 | 200 |
| MZ549RB | 700 | 2.0 | N | N | 50 | 150 | 100 | 50 | N | <20 | 70 | 30 | <100 |
| MZ550R | 70 | 2.0 | 10 | 30 | 10 | N | 700 | 50 | N | <20 | 10 | 500 | 150 |
| MZ550RA | 50 | 5.0 | 1,000 | N | 10 | N | 500 | 20 | N | <20 | 10 | 5,000 | 200 |
| MZ550RB | 150 | 1.0 | 100 | N | 15 | N | 70 | 20 | N | <20 | 10 | 500 | <100 |
| MZ551R | 150 | 2.0 | 70 | N | 5 | 20 | 500 | 20 | N | <20 | 10 | 100 | <100 |
| MZ552R | 300 | 2.0 | >1,000 | N | 20 | 500 | 700 | 30 | 5 | <20 | 10 | 2,000 | 500 |
| MZ553R | 200 | 2.0 | N | 200 | 20 | 30 | 1,500 | 30 | N | <20 | 100 | >20,000 | 10,000 |
| MZ554R | 1,000 | 2.0 | N | 150 | 5 | N | 200 | 100 | N | <20 | 7 | 20,000 | 5,000 |
| MZ554RA | 100 | 1.0 | N | N | <5 | 10 | 50 | 20 | N | <20 | 7 | 100 | 100 |
| MZ554RB | 500 | 1.5 | 200 | N | N | N | 700 | 20 | N | <20 | N | 10,000 | 700 |
| MZ555R | 200 | N | N | N | N | N | 20 | <20 | N | <20 | 10 | 100 | <100 |
| MZ556R | 200 | 1.0 | N | N | N | N | 5 | <20 | N | <20 | 7 | 30 | N |
| MZ557R | 200 | 1.0 | N | N | N | N | 50 | <20 | N | <20 | 7 | 30 | <100 |
| MZ558R | 200 | 1.5 | N | N | N | N | 20 | 50 | 10 | <20 | 5 | 5,000 | 1,000 |
| MZ559R | <20 | <1.0 | N | N | N | N | <5 | <20 | N | <20 | 5 | <10 | N |
| MZ560R | 100 | 1.0 | N | >500 | N | N | 1,000 | <20 | N | <20 | 5 | >20,000 | 5,000 |
| MZ561R | 300 | <1.0 | N | N | 50 | 1,500 | 100 | <20 | N | <20 | 500 | 200 | 700 |
| MZ562R | 50 | N | N | N | <5 | 10 | 7 | <20 | N | <20 | <5 | 30 | N |
| MZ563R | 50 | N | N | N | <5 | N | 10 | <20 | N | <20 | <5 | 10 | N |
| MZ564R | 300 | <1.0 | N | N | 20 | 500 | 150 | <20 | N | <20 | 10 | 20 | N |

TABLE 3.--continued

| Sample | Sc-ppm | Sn-ppm | Sr-ppm | V-ppm | W-ppm | Y-ppm | Zn-ppm | Zr-ppm | Th-ppm | Au-ppm | Hg-ppm | Te-ppm | Cu-ppm |
|---------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|---------|
| i | s | s | s | s | s | s | s | s | s | aa | inst | aa | aa |
| MZ537RA | N | N | N | 10 | N | 20 | N | 20 | V | .40 | .30 | 14.0 | 60.0 |
| MZ538R | 30 | N | 200 | 100 | N | 20 | N | 100 | V | N | <.02 | N | 30.0 |
| MZ538RA | N | 20 | N | N | N | 20 | N | 70 | V | .10 | .40 | .7 | 170.0 |
| MZ538RB | 5 | N | 100 | 50 | N | 10 | 5,000 | 30 | V | 7.00 | 4.60 | 17.0 | >1.0 |
| MZ538RC | 10 | N | N | <10 | N | N | 200 | N | V | .30 | .02 | 11.0 | 290.0 |
| MZ538RD | 10 | N | N | 50 | N | 20 | 500 | 30 | V | 3.90 | .16 | 16.0 | 650.0 |
| MZ538RE | N | 10 | <100 | 70 | N | 20 | 500 | 200 | V | 3.30 | .08 | 6.8 | 620.0 |
| MZ539R | 7 | N | 300 | 15 | N | 10 | N | 100 | V | N | .08 | .1 | 15.0 |
| MZ540R | 5 | N | N | 10 | N | N | N | N | V | N | <.02 | N | 5.0 |
| MZ540RA | 10 | 70 | 100 | 70 | N | N | 1,000 | 50 | V | 2.80 | 1.60 | <.1 | 290.0 |
| MZ541R | 10 | N | N | 10 | N | N | <200 | N | V | N | .02 | <.1 | 15.0 |
| MZ542R | 10 | 70 | 1,000 | 100 | N | 50 | <200 | 200 | V | 1.20 | .50 | 13.0 | 45.0 |
| MZ543R | 10 | N | 100 | <10 | N | 50 | N | 150 | V | N | .04 | .2 | 80.0 |
| MZ543RA | 50 | 10 | N | <10 | N | 50 | N | 100 | V | .15 | .14 | .7 | 300.0 |
| MZ544R | <5 | N | N | 100 | N | 30 | N | 200 | V | N | .02 | .1 | 55.0 |
| MZ544RA | N | N | 100 | 70 | N | 10 | <200 | 100 | V | .25 | .42 | 2.7 | 75.0 |
| MZ544RB | N | N | N | <10 | N | N | 700 | N | V | 17.00 | .50 | .9 | >1.0 |
| MZ544RC | N | 20 | N | 20 | N | <10 | <200 | 10 | V | .70 | .02 | 5.5 | 120.0 |
| MZ545R | N | 20 | <100 | <10 | N | 100 | N | 300 | V | .15 | .34 | 1.4 | 540.0 |
| MZ546R | N | N | N | 20 | N | 10 | N | 200 | V | N | .04 | <.1 | 20.0 |
| MZ547R | N | 20 | 1,000 | 20 | N | 10 | <200 | 150 | V | .15 | .04 | .1 | 5.0 |
| MZ547RA | 20 | 20 | 100 | 20 | N | <10 | 500 | 200 | V | .40 | .40 | .7 | 70.0 |
| MZ548R | <5 | 150 | <100 | 20 | N | 50 | N | 300 | V | .25 | .04 | 1.1 | <.5 |
| MZ549R | N | 10 | <100 | 20 | N | 10 | N | 200 | V | .70 | .40 | .3 | 25.0 |
| MZ549RA | 30 | N | N | 50 | N | 10 | N | 50 | V | 2.00 | .40 | .2 | 230.0 |
| MZ549RB | N | N | N | 300 | N | 50 | <200 | 100 | V | .05 | .10 | N | 100.0 |
| MZ550R | 10 | 10 | <100 | 70 | N | 10 | 1,000 | 200 | V | 2.20 | .65 | N | 170.0 |
| MZ550RA | 5 | N | 500 | 50 | N | N | 200 | 20 | V | 4.70 | .20 | 7.3 | 220.0 |
| MZ550RB | N | N | 200 | 15 | N | N | <200 | 10 | V | 11.00 | .08 | 1.4 | 40.0 |
| MZ551R | N | N | N | 20 | N | 10 | <200 | 30 | V | 1.20 | .14 | .6 | 370.0 |
| MZ552R | 20 | 30 | 100 | 100 | <50 | 30 | 200 | 150 | V | 1.20 | 1.50 | 50.0 | 390.0 |
| MZ553R | 20 | 70 | 500 | 100 | N | 20 | 10,000 | 100 | V | 8.00 | 4.00 | .6 | 1,000.0 |
| MZ554R | 20 | 30 | 1,500 | 100 | N | 30 | 1,500 | 200 | V | 1.50 | .55 | .4 | 100.0 |
| MZ554RA | 5 | N | 100 | 50 | N | 10 | 500 | 20 | V | N | .12 | .1 | 15.0 |
| MZ554RB | 10 | N | 500 | 50 | N | 20 | 500 | 100 | V | 13.00 | 1.20 | 24.0 | 470.0 |
| MZ555R | N | N | N | 10 | N | <10 | 500 | N | V | .10 | .15 | .2 | 5.0 |
| MZ556R | 5 | N | N | 15 | N | 10 | 200 | 50 | V | N | <.02 | N | <5.0 |
| MZ557R | <5 | N | N | 15 | N | N | <200 | 20 | V | .10 | .18 | .2 | 45.0 |
| MZ558R | 20 | N | 100 | 70 | N | 20 | 200 | 200 | V | 1.30 | 3.00 | <.1 | 10.0 |
| MZ559R | N | N | N | N | N | N | <200 | N | V | N | .10 | N | <5.0 |
| MZ560R | 10 | N | 300 | 70 | N | 10 | 10,000 | 20 | V | 1.30 | >10.00 | .1 | 480.0 |
| MZ561R | 30 | N | 700 | 200 | N | 50 | <200 | 50 | V | <.05 | .24 | N | 50.0 |
| MZ562R | N | N | 200 | 10 | N | N | <200 | N | V | N | .12 | <.1 | <5.0 |
| MZ563R | N | N | N | 20 | N | N | N | N | V | N | .60 | <.1 | 5.0 |
| MZ564R | 30 | N | 200 | 200 | N | 20 | <200 | 70 | V | N | >10.00 | <.1 | 85.0 |

TABLE 3.--continued

| Sample | Pb-ddm aa | Zn-ddm aa | Au-ddm aa | Cd-ddm aa | Bi-ddm aa | Sb-ddm aa | As-ddm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| M2537RA | 50 | 45 | 4.50 | 1.10 | 16 | 180 | >1 | Rhyolite qtz porphyry pieces from dump; very altered, bleached, pyrite relics |
| M2538R | <5 | 110 | N | .20 | N | 3 | 70 | Clastic metasediment; abundant pyrite xls and irregular masses throughout |
| M2538RA | 15 | 10 | 4.60 | .10 | 4 | 60 | >1 | Sample of rhyolite; abundant arsenopyrite. |
| M2538RB | >1 | >1 | >1.00 | 56.00 | 470 | >1 | >1 | Relatively pure arsenopyrite from margin of vein. |
| M2538RC | >1 | 80 | 9.00 | 2.70 | 1,000 | 300 | >1 | Vein about 14 cm wide; disseminated arsenopyrite and some relic pyrite cubes. |
| M2538RD | >1 | 450 | 31.00 | 7.30 | 680 | 450 | >1 | 2 cm selvage on top side of vein; mostly arsenopyrite and sec. AS minerals |
| M2538RE | >1 | 250 | 25.00 | 5.50 | 260 | 300 | >1 | Metasediment; fine grained, abundant Fe oxidized, pyrite and arsenopyrite |
| M2539R | 5 | 5 | .10 | .10 | N | 2 | 300 | Rhyolite; limonite after pyrite and Fe oxides; some sericitic alteration. |
| M2540R | 5 | 5 | .05 | .60 | N | <1 | 200 | Quartz vein with Fe oxides in cavities from Story mine area. |
| M2540RA | 0 | 500 | .0 | 10.00 | N | 180 | >1 | Siliceous sulfide bearing vein at caved adit with abundant As and Fe oxides. |
| M2541R | >1 | 70 | 1.00 | .20 | N | 4 | 150 | Bull qtz vein; abundant vugs with Fe oxides. |
| M2542R | 160 | 90 | 1.80 | .70 | 30 | 21 | >1 | Gossan; abundant sulfides and secondary arsenic minerals. |
| M2543R | 45 | 10 | .30 | .20 | N | 6 | 400 | Rhyolite; Fe oxides, secondary copper stains, some disseminated arsenopyrite. |
| M2543RA | 10 | 5 | 1.30 | .10 | 6 | 40 | >1 | Hard dense rhyolite, greenish with abundant disseminated arsenopyrite. |
| M2544R | 5 | 150 | .20 | 1.10 | N | 18 | 130 | Meta-sediment; fine grained, siliceous, with abundant fresh pyrite |
| M2544RA | 170 | 60 | 12.00 | 1.30 | 120 | 200 | 300 | Qtz rich rock finely laminated with Fe oxides and sec. arsenic (scorodite). |
| M2544RB | >1 | 250 | >1.00 | 12.00 | 350 | >1 | >1 | Massive sulfide, arsenopyrite and pyrite. |
| M2544RC | >1 | 35 | 52.00 | 3.70 | 90 | 100 | >1 | Quartz vein system with massive sulfides, both pyrite and arsenopyrite. |
| M2545R | 15 | 20 | 3.50 | .20 | 12 | 230 | 300 | Hard dense rhyolite; disseminated pyrite and arsenopyrite, Fe oxides |
| M2546R | 10 | 15 | .10 | N | N | 2 | 70 | Rhyolite; disseminated pyrite (oxidized) and tiny veinlets of arsenopyrite. |
| M2547R | 20 | 25 | .10 | .10 | N | 4 | >1 | Rhyolite breccia; siliceous matrix with disseminated pyrite and arsenopyrite. |
| M2547RA | 320 | 350 | .80 | 2.20 | 4 | 210 | >1 | Fracture filling with abundant Fe oxides and earthy material. |
| M2548R | 55 | 5 | 1.10 | N | 12 | 5 | 300 | Metasediment with much disseminated pyrite and arsenopyrite in small veins. |
| M2549R | 35 | 15 | .75 | .10 | N | 22 | >1 | Rhyolite with disseminated pyrite and arsenopyrite. |
| M2549RA | 20 | 70 | 3.60 | .10 | 20 | 130 | 1,100 | Zone of sulfide bearing sediments; altered to green sec. As and some pyrite. |
| M2549RB | 20 | 95 | .35 | .30 | N | 22 | 330 | Gossan; along foliation in meta-sediments, red, yellow, and brown Fe oxides. |
| M2550R | 210 | 820 | 3.40 | 13.00 | 4 | 58 | >1 | Sulfide bearing silicified sediments. |
| M2550RA | >1 | 110 | 47.00 | 2.80 | 1,000 | 95 | >1 | Very siliceous vein material; abundant pyrite and arsenopyrite. |
| M2550RB | 180 | 20 | 5.30 | .50 | 58 | 22 | >1 | Siliceous material; same character and perhaps more quartz as 350A. |
| M2551R | 75 | 25 | 5.00 | .20 | 42 | 5 | 200 | Silicified breccia pieces; fine grained black matrix that contains sulfides. |
| M2552R | >1 | 90 | 27.00 | 2.80 | >1 | 120 | 1,000 | Silicified metasediments; sulfides present. |
| M2553R | >1 | >1 | >1.00 | 76.00 | 2 | >1 | >1 | Slate-phyllite; purple-red, abundant Fe oxides as sec. As (scorodite) |
| M2554R | >1 | 1,000 | >1.00 | 59.00 | <2 | >1 | >1 | Slate-phyllite; altered with Fe oxides, pyrite relics, and siliceous zones. |
| M2554RA | 35 | 130 | >1.00 | .05 | N | 6 | >1 | 4-cm thick quartz (red jasperoid) vein in slate phyllite. |
| M2554RB | >1 | 140 | >1.00 | 11.00 | 190 | 110 | >1 | Fe oxide gossan; sec. As and grey sulfides in stringers and patches. |
| M2555R | 50 | 130 | >1.00 | .80 | <2 | 3 | >1 | Jasperoid in silicified slate-phyllite. |
| M2556R | <5 | 40 | .05 | .10 | N | 2 | 120 | Extremely silicified zone of green shale-phyllite; was pyrite bearing. |
| M2557R | 15 | 40 | >1.00 | .20 | N | 10 | 60 | Qtz vein in slate-phyllite; vuggy, Fe oxides throughout, clots of chlorite. |
| M2558R | >1 | 40 | >1.00 | 3.90 | 1 | 400 | 400 | Slate-phyllite; oxidized and silicified, fine grained sulfide and Fe oxide |
| M2559R | 10 | 5 | .10 | N | N | 1 | 50 | Quartz veining in slate-phyllite. |
| M2560R | >1 | >1 | >1.00 | >1.00 | N | >1 | >1 | Red jasperoid; sec. As and Fe oxide stains; pyrite casts, some sulfides. |
| M2561R | 10 | 85 | .10 | .30 | N | 5 | 1,100 | Fe stained meta-sediment; qtz-carbonate veins and abundant carbonate |
| M2562R | 10 | 5 | .10 | .10 | N | 1 | 150 | Qtz zone in greywacke; jasperoid, Mn(?) and chlorite, some relic pyrite |
| M2563R | 5 | N | .05 | .10 | N | N | 140 | Siliceous zone in phyllitic material; stained red and brown with Fe oxides. |
| M2564R | 5 | 25 | .05 | N | N | 10 | 400 | Phyllitic material; all Fe oxide stained, pyrite relics and casts silicified. |

TABLE 3.--continued

| Sample | Latitude | Longitude | 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 |
|---------|----------|-----------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|------------|
| MZ564RA | 33 57 3 | 111 30 8 | 5.00 | .15 | 1.50 | .020 | 1,000 | N | N | N | 1,000 |
| MZ564RJ | 33 57 5 | 111 30 8 | 10.00 | .10 | .10 | .100 | 1,500 | N | <200 | N | 100 |
| MZ564RC | 33 57 5 | 111 30 8 | 7.00 | .05 | .10 | .200 | 100 | N | 1,000 | N | 50 |
| MZ565R | 33 56 18 | 111 30 24 | 2.00 | .50 | <.05 | .015 | 100 | 1.0 | N | N | >2,000 |

TABLE 3.--continued

| Sample | Ba-ppm s | 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 | Sb-ppm s |
|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MZ564RA | 100 | N | N | N | 20 | <10 | 50 | <20 | N | <20 | 15 | 10 | N |
| MZ564RB | 200 | N | N | N | 20 | <10 | 50 | <20 | N | <20 | 20 | 50 | 100 |
| MZ564RC | 200 | <1.0 | N | N | 15 | <10 | 70 | <20 | N | <20 | 20 | 20 | N |
| MZ565R | 20 | 1.5 | N | N | 10 | N | 50 | <20 | 5 | <20 | 10 | 10 | N |

TABLE 3.--continued

| Sample | 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 | Au-ppm aa | Hg-ppm inst | Te-ppm aa | Cu-ppm aa |
|---------|-------------|-------------|-------------|------------|------------|------------|-------------|-------------|-------------|--------------|----------------|--------------|--------------|
| MZ564RA | 5 | N | N | 200 | N | N | <200 | 20 | V | N | 1.00 | N | 20.0 |
| MZ564RB | 30 | N | N | 200 | N | 10 | 300 | <10 | V | N | >10.00 | N | 25.0 |
| MZ564RC | 10 | N | N | 100 | N | 10 | <200 | 30 | V | N | >10.00 | N | 35.0 |
| MZ565R | 5 | N | N | 50 | N | 10 | 500 | 10 | V | <.05 | .22 | 1.0 | 60.0 |

TABLE 3.--continued

| Sample | Pb-ppm aa | Zn-ppm aa | Ag-ppm aa | Cd-ppm aa | Bi-ppm aa | Sb-ppm aa | As-ppm cm | DESCRIPTION OF ROCK SAMPLES |
|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| MZ564RA | <5 | 15 | .05 | N | N | N | 140 | Bands and lenses of red jasper; Fe oxides, some relic pyrite. |
| MZ564RB | 30 | 95 | .10 | N | N | N | 180 | Qtz vein; gossan and cinnabar as small blebs associated with quartz veins |
| MZ564RC | 5 | <5 | .10 | N | N | 5 | 200 | Schist; abundant silica and disseminated sulfides, mostly fresh pyrite |
| MZ565R | 5 | 90 | .15 | N | N | 7 | 50 | Quartz-chlorite vein with Fe oxides in black siliceous country rock. |