

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ANALYTICAL DETERMINATIONS FROM SAMPLES TAKEN IN THE TEN MILE WEST  
ROADLESS AREA, BOISE AND ELMORE COUNTIES,  
IDAHO

by

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This report is preliminary and has not been  
edited or reviewed for conformity with U.S.  
Geological Survey standards and nomenclature.

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## ABSTRACT

A total of 584 stream-sediment and rock samples were collected from within or near the Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho, as part of a geologic study aimed at appraising the mineral resource potential of the area. Emphasis was placed on stream-sediment samples because stream sediments represent the erosional products of a drainage system and offer a rapid means of locating anomalous concentrations of ore-forming elements. An unusually high proportion of the stream-sediment samples contained concentrations of silver and molybdenum. Unaltered rocks of the area contain normal quantities of the common rock-forming elements. Some exposures of altered or mineralized rocks and some quartz veins contain significant quantities of gold and silver.

## 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 open-file report presents analytical determinations from stream-sediment and rock samples collected during the course of a geological study of the Ten Mile West Roadless Area in the Boise National Forest, Boise and Elmore Counties, Idaho. The Ten Mile West Roadless Area was classified as a further planning area or proposed wilderness during the Second Roadless Area Review and Evaluation (RARE II) by the U.S. Forest Service, January 1979.

## INTRODUCTION

The Ten Mile West Roadless Area comprises 85,424 acres in the Boise National Forest, Boise and Elmore Counties, Idaho. The area adjoins the western side of the Sawtooth Wilderness. From Idaho City, the nearest town, the area may be reached by following State Highway 21 northeast for 16 miles to the junction of the graveled road leading east to Atlanta. This road is followed about 3 miles to the mouth of Banner Creek, from where an unimproved road follows that stream and Pikes Fork into the area, continuing to the vicinity of the air strip at Graham (fig. 1).

Field work in the area was done during the summer of 1979 and part of the summer of 1980. Able assistance in the work was given by Reed S. Lewis, Stephen T. Luthy, Donald W. Foster, and Michael A. Smith. Mr. Jean Brock, U.S. Forest Service, was helpful to the field party.

As a result of the field work, a geologic report has been prepared for publication (Kiilsgaard, MF-1500-A, 1983), as has a report that describes the geochemical findings (Kiilsgaard, MF-1500-B, 1983).

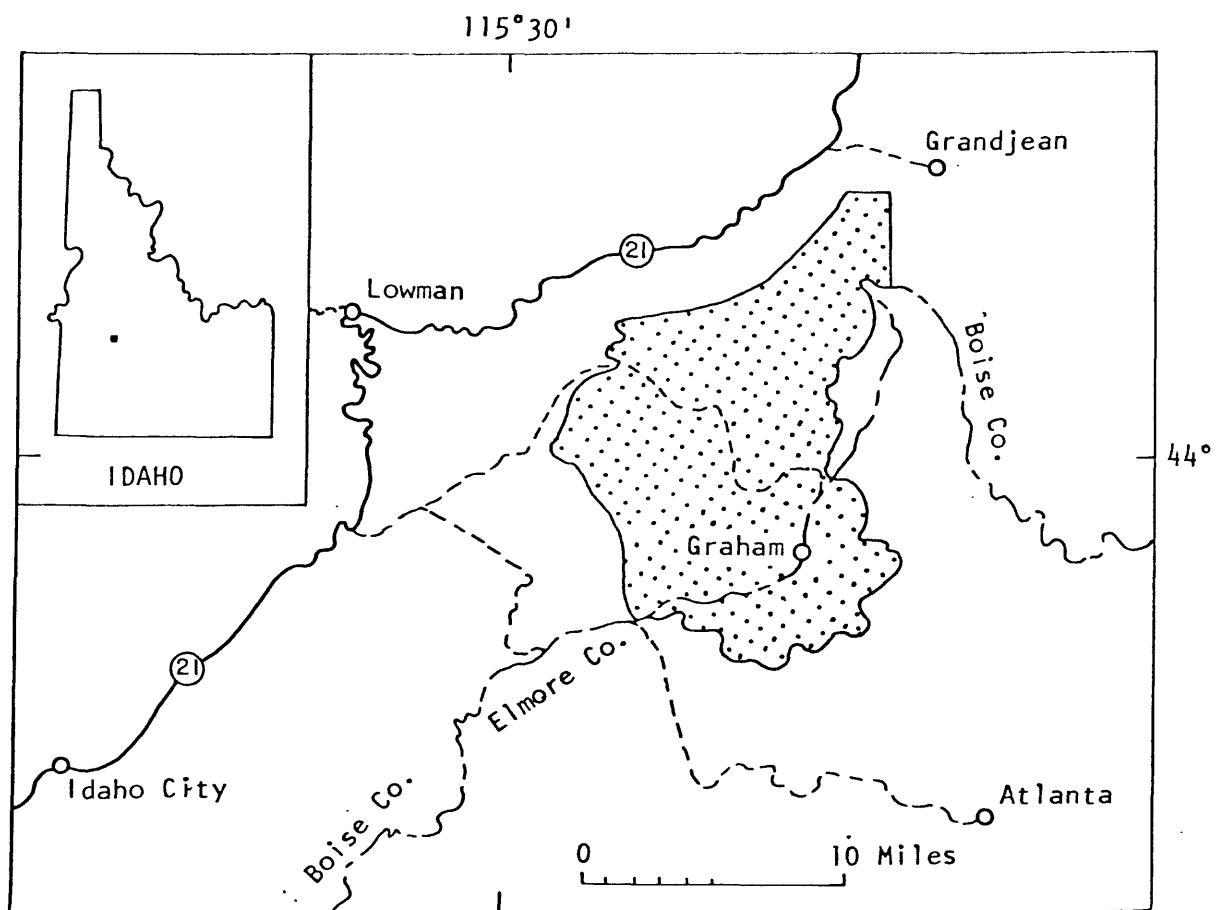


Figure 1. -- Index map showing location of  
Ten Mile West Roadless Area, Idaho

## GEOCHEMICAL SAMPLING AND ANALYTICAL DETERMINATIONS

Rock and stream-sediment samples were collected in the Ten Mile West Roadless Area concurrent with geologic mapping (Kiilsgaard, MF-1500-A, 1983). The objective of the sampling program was to obtain basic information on the geochemistry of the area and to identify concentrations of elements that are associated with ore deposits. A total of 584 samples were collected and analyzed. Of these, 313 were stream-sediment samples, 181 were random rock samples and 90 were samples of altered or mineralized rock. Emphasis was placed on stream-sediment sampling because stream sediments represent the erosional products of a drainage system and offer a rapid means for locating anomalous concentrations of ore-forming elements. Location of the stream-sediment samples is shown on plate 1 and sample analyses are presented in table 1.

An unusually high proportion of stream-sediment samples contained concentrations of silver and molybdenum. Stream-sediment samples that contain detectable silver, 0.5 parts per million (ppm), by semiquantitative spectrographic analysis, commonly are considered anomalous; however, statistical study of the Ten Mile West samples indicates that only those containing 3 ppm silver or more should be considered as anomalous. These anomalous samples are chiefly from Grouse Creek, the vicinity of Bayhouse Pass, Big and Little Silver Creeks, and Spout Creek (pl. 1). Samples that contain 10 ppm molybdenum or more are considered anomalous and most of those samples are from drainage systems that also yielded high values in silver. Clusters of anomalous molybdenum values occur along the drainages of Big and Little Silver Creeks and in streams near the northwest border of the area, where Crooked River bends to the southwest.

Random samples of rock were taken to determine background values of elements in unaltered rocks, and the analytical determinations are presented in table 2. No significant variations in element concentrations were found. Leucocratic monzogranite is slightly higher in silver than other rock types but the variation is not significant. The mafic rocks, particularly diabase, are higher in copper content as would be expected. In general, element values in the unaltered rocks are like those in the stream sediments that have been eroded from the rocks; therefore, it is reasonable to assume that anomalous quantities of ore-forming elements in the sediments have been eroded from mineralized outcrops.

Samples of hydrothermally altered rocks, mineralized shear zones and quartz veins were collected in order to compare the analytical results with those obtained from unaltered rocks and stream sediments. Sample locations of the altered and mineralized samples are shown on plate 2 and analytical determinations in tables 3 and 4. Two types of analytical determinations were made of the altered and mineralized samples: six-step semiquantitative spectrographic analyses were made to determine the possible presence of common ore-forming elements and atomic absorption analyses were made to check specific quantities of gold, silver, lead, zinc, copper and molybdenum in the samples. Quartz veins and altered rocks on the ridges adjacent to Big and Little Silver Creeks, and on the ridge between Johnson Creek and Black Warrior Creeks, contain significant quantities of gold and silver. Molybdenum also occurs in some of the veins and altered rocks, in amounts adequate to account for anomalous values in stream-sediment samples, although none of the rock samples contained ore-grade quantities of molybdenum.



#### REFERENCES CITED

- Kiilsgaard, Thor H., 1983, Geologic map of the Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-1500-A.
- Kiilsgaard, Thor H., 1983, Geochemical map of the Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-1500-B.

Table 1.—Analysis of stream-sediment samples from the Ten MileWest Roadless Area, Boise and Elmore Counties, Idaho

All samples were screened and the minus 80 mesh fraction analyzed by six-step semiquantitative spectrographic analysis, except U by fluorimetric analysis and F by specific ion electrode analysis. Numbers immediately below element headings show minimum limits of determination. The symbol — indicates the element was detected but below the determination limit or was looked for but not detected, except in the columns headed U and F where it indicates no analysis. Elements As (100), Au (10), Bi (10), Cd (20), Sb (100), Sn (10) and W (50) (minimum determination limits in ppm in parentheses) were looked for but either were below determination limits or not found, except samples 362 (50 ppm Sn), 845 (20 ppm Sn), and 757 (50 ppm Bi and 100 ppm W). Geographic sub-headings in the table identify the drainage area in which the samples were taken. Analysts: E.F. Cooley, F. Sanzalone and B. Arbogast.

| Field Lab<br>No.  | Fe      | Mg  | Ca  | Ti | Mn  | Ag   | B   | Ba | Be   | Co | Cr | Cu  | ppm |     |     |    |     |    |     |    |      |      |     |     |    |     |     |
|-------------------|---------|-----|-----|----|-----|------|-----|----|------|----|----|-----|-----|-----|-----|----|-----|----|-----|----|------|------|-----|-----|----|-----|-----|
|                   |         |     |     |    |     |      |     |    |      |    |    |     | F   | La  | Mo  | Nb | Ni  | Pb | Sc  | Sr | U    | V    | Y   | Zn  | Zr |     |     |
| Ten Mile Drainage |         |     |     |    |     |      |     |    |      |    |    |     |     |     |     |    |     |    |     |    |      |      |     |     |    |     |     |
| 19                | LFA 012 | 2   | .5  | .5 | .2  | 1500 | 1   | 70 | 1000 | 3  | —  | 20  | 15  | —   | 100 | —  | —   | —  | 10  | 50 | 7    | 300  | —   | 70  | 20 | —   | 100 |
| 20                | LFA 013 | 3   | .7  | .6 | .2  | 5000 | —   | 70 | 1000 | 3  | 10 | 30  | 20  | —   | 50  | —  | —   | —  | 20  | 50 | 10   | 200  | —   | 100 | 20 | —   | 100 |
| 21                | LFA 014 | 3   | .5  | .5 | .15 | 2000 | —   | 50 | 1000 | 5  | 7  | 30  | 20  | —   | 50  | —  | —   | —  | 10  | 50 | 10   | 200  | —   | 100 | 50 | —   | 100 |
| 22                | LFA 015 | 1.5 | .15 | .7 | .07 | 500  | 2   | 70 | 1000 | 5  | —  | 20  | 15  | —   | 70  | —  | —   | —  | —   | 30 | 5    | 200  | —   | 70  | 50 | —   | 70  |
| 24                | LFA 016 | 2   | .5  | .5 | .2  | 1500 | .7  | 50 | 1000 | 3  | —  | 30  | 15  | —   | 50  | —  | —   | —  | 5   | 50 | 7    | 200  | —   | 70  | 20 | —   | 100 |
| 142               | LFS 985 | 5   | .7  | .5 | .5  | 300  | —   | 50 | 500  | 2  | 20 | 50  | 50  | —   | 50  | —  | 30  | 30 | 70  | 15 | 200  | —    | 100 | 20  | —  | 200 |     |
| 143               | LFS 986 | 1   | .2  | 1  | .2  | 200  | —   | 20 | 500  | 2  | 10 | 20  | 15  | —   | 50  | —  | 20  | —  | 50  | 7  | 500  | —    | 50  | 10  | —  | 100 |     |
| 154               | LFS 992 | 5   | .5  | .7 | .3  | 1500 | —   | 20 | 700  | 2  | —  | 10  | 5   | —   | 100 | —  | 50  | 5  | 100 | 7  | 1000 | —    | 50  | 30  | —  | 200 |     |
| 161               | LFS 995 | 3   | .5  | .5 | .3  | 3000 | —   | 30 | 700  | 2  | 10 | 50  | 20  | —   | 70  | —  | 30  | 20 | 70  | 10 | 300  | —    | 50  | 20  | —  | 150 |     |
| 163               | LFS 996 | 1   | .15 | .5 | .1  | 1000 | —   | 20 | 500  | 3  | —  | 10  | 5   | —   | 50  | —  | 20  | —  | 50  | 5  | 300  | —    | 20  | 20  | —  | 150 |     |
| 164               | LFS 997 | 2   | .2  | .2 | .15 | 1500 | —   | 50 | 500  | 5  | —  | 10  | 15  | —   | 50  | —  | 20  | 10 | 50  | 5  | 200  | —    | 30  | 20  | —  | 100 |     |
| 165               | LFS 998 | 1   | .15 | .7 | .15 | 1500 | —   | 30 | 300  | 10 | —  | 10  | 15  | —   | 50  | —  | 20  | —  | 50  | 5  | 300  | —    | 30  | 20  | —  | 100 |     |
| 166               | LFS 999 | 2   | .3  | .7 | .3  | 200  | —   | 30 | 500  | 5  | 10 | 20  | 15  | —   | 100 | —  | —   | 10 | 50  | 7  | 300  | —    | 50  | 50  | —  | 100 |     |
| 167               | LFV 001 | 1.5 | .2  | .7 | .2  | 1000 | —   | 30 | 500  | 3  | —  | 10  | 10  | —   | 50  | —  | 30  | 5  | 50  | 5  | 300  | —    | 30  | 30  | —  | 150 |     |
| 168               | LFV 010 | 2   | .3  | .7 | .2  | 1000 | —   | 10 | 500  | 2  | —  | 20  | 10  | —   | 70  | —  | 20  | —  | 50  | 5  | 500  | —    | 50  | 20  | —  | 150 |     |
| 293               | LFS 035 | 2   | .3  | .5 | .2  | 1500 | —   | 50 | 1000 | 2  | —  | 20  | 5   | 300 | 70  | —  | 70  | 10 | 70  | 5  | 500  | 13   | 30  | 30  | —  | 150 |     |
| 294               | LFS 036 | 3   | .5  | .7 | .3  | 2000 | —   | 50 | 1500 | 2  | 10 | 30  | 10  | 300 | 70  | —  | 100 | 10 | 70  | 7  | 700  | 14   | 50  | 30  | —  | 200 |     |
| 295               | LFS 037 | .5  | .1  | .7 | .03 | 1000 | —   | 20 | 150  | 2  | —  | —   | 10  | 400 | 50  | —  | —   | —  | 10  | —  | 200  | 136  | 20  | 30  | —  | 10  |     |
| 296               | LFS 038 | 5   | .5  | .7 | .5  | 5000 | —   | 50 | 1500 | 3  | —  | 15  | 5   | 400 | 50  | —  | 50  | 10 | 100 | 10 | 700  | 3.7  | 50  | 20  | —  | 200 |     |
| 297               | LFS 039 | 1.5 | .3  | 1  | .15 | 2000 | 1.5 | 50 | 700  | 3  | —  | 15  | 15  | 400 | 100 | —  | —   | —  | 30  | 5  | 500  | 74   | 50  | 30  | —  | 100 |     |
| 298               | LFS 040 | 1.5 | .2  | .3 | .15 | 700  | —   | 30 | 700  | 2  | —  | 15  | 5   | 200 | 70  | —  | 20  | 20 | 20  | 5  | 200  | 12.8 | 20  | 20  | —  | 150 |     |
| 299               | LFS 041 | 2   | .5  | .5 | .5  | 2000 | —   | 50 | 1500 | 2  | —  | 15  | 15  | 300 | 70  | —  | 30  | 5  | 100 | 5  | 500  | 6.1  | 50  | 20  | —  | 200 |     |
| 300               | LFS 042 | 5   | 1   | 1  | .7  | 2000 | —   | 50 | 1500 | 2  | 10 | 100 | 20  | 300 | 150 | —  | 100 | 10 | 100 | 15 | 700  | 17   | 100 | 50  | —  | 300 |     |

Table 1.--Continued

| Field Lab<br>No.             | Percent |     |     |      |       |     |     |      |    |    |     |    | ppm |     |    |    |    |     |    |      |     |     |    |    |     |    |
|------------------------------|---------|-----|-----|------|-------|-----|-----|------|----|----|-----|----|-----|-----|----|----|----|-----|----|------|-----|-----|----|----|-----|----|
|                              | Fe      | Mg  | Ca  | Ti   | Mn    | Ag  | B   | Ba   | Be | Co | Cr  | Cu | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | U   | V   | Y  | Zn | Zr  |    |
|                              | .05     | .02 | .05 | .002 | 10    | .5  | 10  | 10   | 1  | 5  | 10  | 5  | 100 | 20  | 5  | 20 | 5  | 10  | 10 | 5    | 100 | .05 | 10 | 10 | 200 | 10 |
| Ten Mile Drainage--Continued |         |     |     |      |       |     |     |      |    |    |     |    |     |     |    |    |    |     |    |      |     |     |    |    |     |    |
| 398 LFR 973                  | 5       | .5  | 1   | .5   | 10000 | —   | 100 | 1000 | 10 | 15 | 50  | 50 | 100 | 150 | —  | 20 | 20 | 70  | 15 | 700  | 13  | 100 | 50 | —  | 100 |    |
| 400 LFR 974                  | .5      | .1  | .7  | .1   | 2000  | —   | 20  | 300  | 5  | —  | 10  | 20 | —   | 50  | —  | —  | —  | 30  | 5  | 150  | —   | 50  | 20 | —  | 20  |    |
| 451 LFS 043                  | 5       | .7  | 1   | .3   | 2000  | —   | 50  | 1000 | 3  | 10 | 70  | 15 | 400 | 150 | —  | 20 | 10 | 70  | 10 | 700  | 5.7 | 70  | 30 | —  | 200 |    |
| 452 LFS 044                  | 7       | .7  | .7  | .5   | 3000  | —   | 20  | 1500 | 3  | 10 | 50  | 10 | 300 | 200 | —  | 50 | 5  | 100 | 10 | 700  | .9  | 50  | 30 | —  | 200 |    |
| 453 LFS 045                  | 1       | .2  | 1   | .2   | 1500  | —   | 50  | 300  | 3  | —  | 50  | 20 | 300 | 50  | —  | —  | 5  | 10  | 5  | 200  | 45  | 50  | 20 | —  | 50  |    |
| 454 LFS 046                  | 7       | 1   | 1   | .5   | 2000  | —   | 20  | 700  | 2  | 20 | 150 | 15 | 400 | 150 | —  | 50 | 10 | 50  | 20 | 700  | 9.9 | 200 | 30 | —  | 700 |    |
| 501 LFR 975                  | 5       | .3  | .7  | .3   | 10000 | —   | 70  | 700  | 10 | 15 | 10  | 20 | 600 | 150 | —  | 50 | 10 | 50  | 10 | 500  | 96  | 100 | 50 | —  | 200 |    |
| 502 LFR 976                  | 2       | .3  | .5  | .3   | 1000  | —   | 70  | 700  | 3  | —  | —   | —  | 300 | 100 | —  | 20 | —  | 30  | 5  | 500  | 11  | 50  | 20 | —  | 200 |    |
| 508 LFR 977                  | 2       | .3  | 1   | .2   | 1500  | —   | 50  | 700  | 3  | —  | 50  | 15 | 300 | 150 | —  | 20 | 10 | 50  | 5  | 700  | 37  | 50  | 30 | —  | 150 |    |
| 509 LFR 978                  | 2       | .3  | .7  | .2   | 2000  | —   | 50  | 700  | 5  | —  | 20  | 10 | 200 | 100 | —  | 50 | 10 | 70  | 5  | 700  | 9.3 | 50  | 50 | —  | 200 |    |
| 510 LFR 979                  | 2       | .5  | .7  | .2   | 2000  | —   | 50  | 1000 | 2  | —  | 20  | 10 | 200 | 100 | —  | 30 | 5  | 70  | 5  | 700  | 7.3 | 50  | 30 | —  | 200 |    |
| 512 LFR 980                  | .5      | .3  | 1.5 | .15  | 2000  | —   | 20  | 700  | 3  | —  | 50  | 10 | 300 | 100 | —  | 20 | 5  | 30  | 10 | 500  | 18  | 50  | 30 | —  | 100 |    |
| 514 LFR 981                  | 3       | 1   | 1   | .5   | 3000  | —   | 30  | 1500 | 3  | —  | 50  | 10 | 200 | 100 | —  | 50 | 10 | 100 | 10 | 1000 | 4.3 | 70  | 30 | —  | 200 |    |
| 515 LFR 982                  | 3       | .5  | .7  | .5   | 3000  | —   | 30  | 1000 | 3  | 10 | 50  | 15 | 200 | 150 | —  | 50 | 10 | 100 | 10 | 700  | 1.3 | 50  | 30 | —  | 200 |    |
| 516 LFR 983                  | 2       | .3  | .5  | .2   | 1500  | 1.5 | 50  | 700  | 3  | 10 | 50  | 10 | 300 | 70  | —  | 20 | 20 | 50  | 5  | 500  | 12  | 50  | 30 | —  | 100 |    |
| 517 LFR 984                  | 3       | .7  | 1   | .5   | 2000  | —   | 50  | 700  | 5  | 10 | 70  | 70 | 300 | 150 | —  | 30 | 20 | 70  | 15 | 700  | 11  | 150 | 50 | —  | 120 |    |
| 519 LFR 985                  | 3       | .7  | 1   | .5   | 2000  | —   | 30  | 1000 | 3  | —  | 50  | 10 | 300 | 150 | —  | 30 | 5  | 70  | 10 | 1000 | 7.2 | 70  | 30 | —  | 200 |    |
| 604 LFS 082                  | 3       | .5  | .7  | .3   | 5000  | .5  | 70  | 1500 | 5  | —  | 30  | 10 | 600 | 150 | —  | 50 | 5  | 150 | 10 | 500  | 8.5 | 70  | 50 | —  | 200 |    |
| 606 LFS 083                  | 2       | .5  | .5  | .2   | 3000  | —   | 50  | 1000 | 3  | —  | 50  | 7  | 500 | 70  | —  | 50 | 10 | 70  | 5  | 500  | 30  | 50  | 30 | —  | 200 |    |
| 615 LFS 084                  | 5       | .5  | .7  | .3   | 5000  | 1   | 50  | 1500 | 3  | 10 | 50  | 20 | 300 | 150 | —  | 70 | 10 | 70  | 10 | 700  | 1.2 | 100 | 50 | —  | 300 |    |
| 627 LGJ 740                  | 5       | 1   | 1   | .5   | 100   | 1   | 20  | 1500 | 2  | 10 | 70  | 20 | —   | 150 | —  | 30 | 15 | 100 | 20 | 500  | —   | —   | 50 | —  | 300 |    |
| 628 LGJ 741                  | 2       | .5  | 1   | .2   | 1000  | —   | 20  | 1000 | 3  | 5  | 50  | 15 | —   | 70  | —  | 20 | 10 | 70  | 5  | 500  | —   | 70  | 30 | —  | 150 |    |
| 629 LGJ 742                  | 7       | 1.5 | 1   | 1    | 1000  | —   | 20  | 700  | 2  | 20 | 100 | 20 | —   | 100 | —  | 20 | 15 | 100 | 20 | 500  | —   | 150 | 50 | —  | 300 |    |
| 283 LFS 029                  | 1.5     | .2  | .3  | .15  | 500   | —   | 50  | 700  | 3  | —  | —   | 10 | 400 | 70  | —  | 50 | 10 | 50  | 5  | 500  | 8.3 | 30  | 20 | —  | 100 |    |
| 284 LFS 030                  | 2       | .2  | .7  | .2   | 2000  | —   | 70  | 700  | 5  | —  | 10  | 10 | 600 | 200 | —  | 50 | 5  | 100 | 5  | 500  | 45  | 30  | 50 | —  | 200 |    |

Table 1.--Continued

| Field Lab<br>No. | No.     | Percent |     |     |      |      |     |     |      |                        |    | ppm |     |     |     |    |    |    |     |    |      |     |     |     |     |     |
|------------------|---------|---------|-----|-----|------|------|-----|-----|------|------------------------|----|-----|-----|-----|-----|----|----|----|-----|----|------|-----|-----|-----|-----|-----|
|                  |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag  | B   | Ba   | Be                     | Co | Cr  | Cu  | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | U   | V   | Y   | Zn  | Zr  |
|                  |         | .05     | .02 | .05 | .002 | 10   | .5  | 10  | 10   | 1                      | 5  | 10  | 5   | 100 | 20  | 5  | 20 | 5  | 10  | 5  | 100  | .05 | 10  | 10  | 200 | 10  |
|                  |         |         |     |     |      |      |     |     |      | Johnson Creek Drainage |    |     |     |     |     |    |    |    |     |    |      |     |     |     |     |     |
| 261              | LGJ 786 | 2       | .5  | 2   | .5   | 500  | —   | 30  | 1500 | 2                      | 5  | 30  | 5   | 200 | 150 | —  | 20 | —  | 70  | 10 | 700  | 2.9 | 70  | 30  | —   | 300 |
| 262              | LGJ 787 | 2       | .5  | 2   | .5   | 700  | —   | 20  | 1500 | 2                      | 5  | 20  | 5   | 200 | 150 | —  | 20 | —  | 70  | 10 | 700  | 9.9 | 50  | 30  | —   | 300 |
| 265              | LFS 017 | 2       | .5  | 1   | .3   | 2000 | —   | 50  | 1500 | 3                      | —  | 30  | 15  | 200 | 100 | —  | 50 | 10 | 70  | 7  | 700  | 13  | 100 | 20  | —   | 200 |
| 266              | LFS 018 | 5       | .5  | 1   | .3   | 2000 | —   | 50  | 1500 | 2                      | —  | 20  | 5   | 200 | 150 | —  | 20 | 5  | 70  | 7  | 700  | 5.3 | 50  | 30  | —   | 200 |
| 267              | LFS 019 | 3       | .5  | 1   | .3   | 2000 | —   | 30  | 1500 | 2                      | —  | 30  | 7   | 200 | 150 | —  | 20 | 5  | 70  | 7  | 700  | 24  | 70  | 30  | —   | 150 |
| 268              | LFS 020 | 2       | .5  | .7  | .5   | 2000 | —   | 50  | 1000 | 2                      | —  | 10  | 10  | 200 | 150 | —  | 50 | 5  | 70  | 10 | 700  | 9.6 | 50  | 50  | —   | 200 |
| 340              | LFR 942 | 3       | .5  | .7  | .3   | 1500 | —   | 50  | 1000 | 2                      | 10 | 50  | 10  | 200 | 100 | —  | 20 | 15 | 70  | 10 | 700  | 13  | 50  | 20  | —   | 200 |
| 341              | LFR 943 | 2       | .5  | .7  | .3   | 2000 | —   | 30  | 1000 | 3                      | —  | 30  | 10  | 200 | 200 | —  | 30 | 5  | 50  | 7  | 700  | 9.3 | 50  | 50  | —   | 700 |
| 342              | LFS 009 | 2       | .5  | .7  | .3   | 2000 | —   | 50  | 1000 | 3                      | —  | 20  | 10  | 200 | 150 | —  | 20 | 10 | 70  | 5  | 700  | 3.7 | 50  | 30  | —   | 200 |
| 360              | LFR 952 | 3       | .7  | .7  | .3   | 2000 | —   | 50  | 1000 | 2                      | 10 | 50  | 15  | 200 | 200 | —  | 50 | 10 | 70  | 10 | 1000 | 23  | 70  | 100 | —   | 150 |
| 382              | LFR 968 | 3       | .7  | 1   | .5   | 3000 | —   | 50  | 2000 | 2                      | —  | 20  | 10  | 100 | 200 | —  | 20 | 5  | 70  | 10 | 1000 | 10  | 50  | 50  | —   | 50  |
| 390              | LFR 970 | 5       | 1   | 2   | .5   | 2000 | 2   | 20  | 1000 | 3                      | 10 | 70  | 100 | 300 | 150 | 20 | 20 | 15 | 150 | 10 | 700  | 5.1 | 100 | 30  | —   | 200 |
| 419              | LFS 091 | 5       | .5  | .7  | .3   | 1500 | .5  | 50  | 100  | 3                      | —  | 20  | 20  | 200 | 150 | —  | 20 | 10 | 100 | 7  | 1000 | 8.8 | 70  | 20  | —   | 200 |
| 420              | LFS 092 | 5       | .5  | .7  | .2   | 2000 | 1.5 | 100 | 700  | 3                      | —  | 20  | 10  | 400 | 150 | —  | 20 | 10 | 70  | 10 | 500  | 26  | 70  | 50  | —   | 200 |
| 424              | LFS 093 | 7       | .7  | .7  | .5   | 5000 | 5   | 150 | 1000 | 3                      | —  | 30  | 20  | 400 | 150 | 10 | 70 | 5  | 150 | 15 | 700  | 13  | 100 | 70  | —   | 200 |
| 425              | LFS 094 | 2       | .5  | .7  | .2   | 3000 | 2   | 100 | 700  | 5                      | —  | 30  | 20  | 500 | 150 | —  | 30 | 10 | 70  | 10 | 300  | 29  | 70  | 50  | —   | 150 |
| 426              | LFS 095 | 3       | .5  | .7  | .3   | 3000 | 1   | 50  | 1000 | 2                      | —  | 30  | 20  | 300 | 150 | —  | 20 | 10 | 100 | 10 | 500  | 8.5 | 70  | 50  | —   | 200 |
| 427              | LFS 097 | 3       | .5  | .5  | .3   | 5000 | —   | 150 | 700  | 2                      | —  | 30  | 20  | 300 | 150 | —  | 30 | 10 | 100 | 10 | 300  | 4.3 | 70  | 30  | —   | 200 |
| 428              | LFS 098 | 3       | .5  | .7  | .3   | 7000 | —   | 70  | 1000 | 2                      | —  | 30  | 20  | 300 | 200 | —  | 30 | 10 | 100 | 10 | 500  | 2   | 100 | 50  | —   | 200 |
| 429              | LFS 099 | 2       | .3  | .5  | .2   | 1500 | 1   | 50  | 700  | 3                      | —  | 20  | 20  | 400 | 70  | —  | 20 | 15 | 70  | 7  | 300  | 7.5 | 50  | 30  | —   | 150 |
| 430              | LFS 100 | 3       | .5  | .7  | .3   | 5000 | —   | 100 | 700  | 3                      | —  | 10  | 15  | 300 | 100 | —  | 30 | 10 | 100 | 10 | 500  | 2.7 | 50  | 30  | —   | 150 |
| 431              | LFS 101 | 1.5     | .3  | .5  | .2   | 1500 | —   | 50  | 700  | 3                      | —  | 10  | 10  | 300 | 100 | —  | 20 | 5  | 50  | 5  | 500  | 16  | 50  | 30  | —   | 150 |
| 432              | LFS 102 | 2       | .3  | .7  | .15  | 1500 | —   | 50  | 700  | 3                      | —  | 10  | 10  | 300 | 100 | —  | 20 | 5  | 50  | 5  | 500  | 38  | 30  | 30  | —   | 100 |
| 260              | LFS 014 | 2       | .5  | .7  | .3   | 5000 | —   | 50  | 700  | 3                      | —  | 30  | 20  | 300 | 50  | —  | —  | 10 | 50  | 10 | 300  | 30  | 100 | 10  | —   | 150 |

Table 1.--Continued

| Field Lab<br>No.      | No.     | Percent |     |     |      |      |    |     |      |    |    | ppm |    |     |     |    |    |    |     |    |      |     |     |     |    |     |     |
|-----------------------|---------|---------|-----|-----|------|------|----|-----|------|----|----|-----|----|-----|-----|----|----|----|-----|----|------|-----|-----|-----|----|-----|-----|
|                       |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag | B   | Ba   | Be | Co | Cr  | Cu | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | U   | V   | Y   | Zn | Zr  |     |
|                       |         | .05     | .02 | .05 | .002 | 10   | .5 | 10  | 10   | 1  | 5  | 10  | 5  | 100 | 20  | 5  | 20 | 5  | 10  | 5  | 100  | .05 | 10  | 10  | 10 | 200 | 10  |
| Grouse Creek Drainage |         |         |     |     |      |      |    |     |      |    |    |     |    |     |     |    |    |    |     |    |      |     |     |     |    |     |     |
| 385                   | LFR 969 | 2       | .5  | 3   | .2   | 5000 | 7  | 50  | 1000 | 3  | —  | 50  | 20 | 200 | 100 | —  | 20 | —  | 500 | 10 | 500  | 4.9 | 100 | 50  | 50 | —   | 100 |
| 153                   | LFS 110 | 5       | .7  | .7  | .3   | 1500 | —  | 70  | 1000 | 2  | —  | 10  | 7  | —   | 100 | —  | 30 | 10 | 70  | 5  | 700  | —   | 50  | 50  | —  | 200 |     |
| 433                   | LFS 103 | 3       | .5  | .7  | .2   | 2000 | —  | 170 | 1000 | 3  | —  | 50  | 10 | 300 | 100 | 10 | 20 | 5  | 100 | 10 | 1000 | 10  | 50  | 30  | —  | 150 |     |
| 439                   | LFS 104 | 7       | 1   | .7  | .5   | 3000 | .5 | 100 | 700  | 3  | 20 | 50  | 30 | 400 | 100 | —  | 20 | 20 | 100 | 15 | 500  | 6   | 150 | 30  | —  | 200 |     |
| 440                   | LFS 105 | 5       | 1   | .7  | .5   | 1500 | —  | 100 | 700  | 2  | 10 | 50  | 20 | 300 | 100 | —  | 20 | 20 | 70  | 15 | 300  | 57  | 150 | 30  | —  | 200 |     |
| 441                   | LFS 106 | 5       | 1   | .7  | .5   | 7000 | —  | 100 | 700  | 3  | 20 | 10  | 50 | 300 | 100 | —  | 20 | 20 | 70  | 15 | 300  | 9.3 | 150 | 20  | —  | 150 |     |
| 442                   | LFS 107 | 3       | .5  | .7  | .3   | 1500 | .5 | 50  | 1000 | 3  | —  | 20  | 10 | 100 | 70  | —  | 20 | 5  | 70  | 7  | 700  | 1.9 | 50  | 20  | —  | 200 |     |
| Cow Creek Drainage    |         |         |     |     |      |      |    |     |      |    |    |     |    |     |     |    |    |    |     |    |      |     |     |     |    |     |     |
| 361                   | LFR 953 | 5       | .7  | 1   | .5   | 2000 | —  | 30  | 1000 | 2  | 10 | 50  | 20 | 200 | 100 | —  | 50 | 15 | 100 | 10 | 1000 | 11  | 100 | 30  | —  | 150 |     |
| 362                   | LFR 954 | 5       | .7  | 1   | .5   | 2000 | —  | 50  | 1000 | 3  | 10 | 20  | 10 | 300 | 100 | —  | 20 | 5  | 70  | 10 | 1000 | 15  | 100 | 30  | —  | 300 |     |
| 363                   | LFR 955 | 2       | .5  | .7  | .2   | 2000 | —  | 50  | 700  | 5  | 10 | 30  | 20 | 300 | 100 | —  | 20 | 10 | 50  | 10 | 500  | 9   | 100 | 30  | —  | 150 |     |
| 364                   | LFR 956 | 3       | 1   | .7  | .3   | 2000 | —  | 20  | 1000 | 2  | 10 | 50  | 20 | 200 | 50  | —  | 20 | 15 | 100 | 10 | 500  | 2.6 | 100 | 20  | —  | 150 |     |
| 365                   | LFR 957 | 2       | .3  | .5  | .2   | 1000 | —  | 30  | 700  | 3  | —  | 20  | 15 | 300 | 50  | —  | 20 | 10 | 50  | 5  | 300  | 13  | 50  | 30  | —  | 150 |     |
| 366                   | LFR 958 | 1.5     | .2  | .5  | .2   | 1000 | —  | 50  | 700  | 3  | —  | 5   | 10 | 200 | 70  | —  | 30 | 5  | 50  | 5  | 500  | 27  | 30  | 30  | —  | 200 |     |
| 367                   | LFR 959 | 3       | .7  | .7  | .3   | 5000 | —  | 50  | 1500 | 3  | 10 | 50  | 15 | 200 | 70  | —  | 30 | 5  | 100 | 10 | 700  | 3.9 | 100 | 30  | —  | 200 |     |
| 369                   | LFR 960 | 5       | 1   | .5  | .3   | 2000 | 2  | 50  | 1500 | 5  | 10 | 50  | 15 | 500 | 150 | —  | 30 | 10 | 150 | 10 | 700  | 3.9 | 100 | 30  | —  | 150 |     |
| 370                   | LFR 961 | 3       | .5  | .5  | .3   | 1000 | —  | 30  | 1000 | 3  | —  | 20  | 10 | 300 | 70  | —  | 50 | 10 | 70  | 7  | 500  | 15  | 50  | 30  | —  | 150 |     |
| 371                   | LFR 962 | 5       | .5  | .7  | .3   | 5000 | .5 | 70  | 700  | 3  | 10 | 50  | 50 | 300 | 200 | —  | 20 | 20 | 70  | 10 | 300  | 7.8 | 150 | 100 | —  | 150 |     |
| 372                   | LFR 963 | 5       | .7  | .7  | .5   | 3000 | —  | 50  | 1500 | 2  | 10 | 30  | 30 | 300 | 150 | 5  | 30 | 7  | 70  | 10 | 500  | 8.5 | 100 | 50  | —  | 200 |     |
| 373                   | LFR 964 | 2       | .7  | .5  | .3   | 1500 | —  | 50  | 1000 | 2  | —  | 10  | —  | 400 | 70  | —  | 30 | 5  | 70  | 5  | 500  | 3.1 | 50  | 20  | —  | 200 |     |
| 374                   | LFR 965 | 3       | .5  | .7  | .3   | 2000 | —  | 50  | 1000 | 3  | —  | 10  | 15 | 400 | 150 | —  | 20 | 5  | 70  | 10 | 700  | 20  | 100 | 30  | —  | 200 |     |
| 375                   | LFR 966 | 5       | .7  | .7  | .5   | 2000 | .5 | 50  | 1000 | 2  | 10 | 100 | 50 | 100 | 150 | —  | 50 | 10 | 100 | 15 | 700  | 12  | 100 | 30  | —  | 200 |     |
| 376                   | LFR 967 | 3       | .7  | .7  | .3   | 2000 | 1  | 50  | 700  | 3  | 10 | 50  | 50 | 100 | 100 | —  | 20 | 15 | 150 | 10 | 500  | 7.2 | 100 | 30  | —  | —   |     |
| 764                   | LGJ 738 | 3       | .5  | 1   | .5   | 1000 | —  | 20  | 1000 | 3  | 5  | 20  | 10 | —   | 200 | —  | 50 | 10 | 70  | 10 | 700  | —   | 70  | —   | —  | 200 |     |
| 765                   | LGJ 739 | 3       | 1   | 1   | .5   | 1000 | —  | 30  | 1000 | 3  | 10 | 70  | 20 | —   | 150 | —  | 30 | 20 | 100 | 10 | 500  | —   | 70  | —   | —  | 150 |     |
| 845                   | LGJ 743 | 2       | .3  | .7  | .2   | 500  | 1  | 20  | 700  | 10 | —  | 20  | 20 | —   | 200 | —  | 20 | 5  | 50  | 7  | 500  | —   | 70  | 200 | —  | 100 |     |

Table 1.--Continued

| Field Lab<br>No. | Fe      | Mg  | Ca | Ti | Mn  | Ag   | B   | Ba | Be | Co | Cr | Cu | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr  | U   | V   | Y   | Zn  | Zr  |
|------------------|---------|-----|----|----|-----|------|-----|----|----|----|----|----|-----|-----|----|----|----|-----|----|-----|-----|-----|-----|-----|-----|
|                  | Percent |     |    |    |     |      |     |    |    |    |    |    |     |     |    |    |    |     |    |     |     |     |     |     |     |
| 101              | LFA 068 | 2   | .3 | .7 | .15 | 500  | .5  | 50 | 3  | 5  | 20 | 10 | —   | 50  | —  | —  | 5  | 30  | 5  | 200 | —   | 50  | 20  | —   | 150 |
| 102              | LFA 069 | 2   | .5 | .5 | .15 | 700  | .5  | 50 | 3  | 5  | 20 | 7  | —   | 50  | —  | —  | 7  | 30  | 5  | 200 | —   | 50  | 20  | —   | 100 |
| 103              | LFA 070 | 3   | .3 | .5 | .2  | 700  | —   | 50 | 7  | —  | 50 | 10 | —   | 70  | —  | 20 | 10 | 20  | 7  | 200 | —   | 50  | 30  | —   | 200 |
| 104              | LFA 071 | 5   | .5 | .5 | .15 | 1000 | 1   | 30 | 5  | —  | 30 | 10 | —   | 100 | —  | —  | 10 | 50  | 5  | 300 | —   | 50  | 20  | —   | 100 |
| 105              | LFA 072 | 2   | .5 | .5 | .2  | 1000 | —   | 70 | 5  | —  | 50 | 15 | —   | 50  | —  | —  | 10 | 20  | 5  | 200 | —   | 50  | 20  | —   | 100 |
| 106              | LFA 073 | 2   | .5 | .1 | .2  | 1000 | 5   | 50 | 5  | —  | 30 | 10 | —   | 70  | 20 | —  | 7  | 50  | 5  | 200 | —   | 50  | 20  | —   | 100 |
| 107              | LFA 074 | 3   | .5 | .2 | .2  | 1000 | 2   | 50 | 5  | —  | 20 | 10 | —   | 100 | 20 | 20 | 5  | 50  | 5  | 300 | —   | 50  | 30  | —   | 200 |
| 108              | LFA 075 | 3   | .5 | .2 | .15 | 1000 | 1   | 50 | 7  | —  | 20 | 10 | —   | 70  | —  | 20 | 7  | 50  | 5  | 300 | —   | 50  | 30  | —   | 200 |
| 136              | LFA 094 | .5  | .1 | .5 | .07 | 200  | —   | 30 | 3  | —  | 20 | 5  | —   | 50  | —  | —  | —  | 20  | 5  | —   | —   | 30  | 10  | —   | 50  |
| 28               | LFA 017 | 1.5 | .2 | .5 | .15 | 200  | .5  | 50 | 2  | —  | 20 | 7  | —   | 50  | 5  | —  | 5  | 20  | 5  | 300 | —   | 50  | 20  | —   | 100 |
| 29               | LFA 018 | 2   | .5 | .5 | .2  | 700  | 1.5 | 50 | 3  | 10 | 50 | 15 | —   | 200 | 5  | 30 | 10 | 70  | 10 | 300 | —   | 70  | 50  | —   | 100 |
| 31               | LFA 019 | 1.5 | .3 | .3 | .1  | 700  | 1   | 50 | 3  | —  | 20 | 10 | —   | 70  | —  | —  | 5  | 50  | 5  | 300 | —   | 50  | 20  | —   | 100 |
| 32               | LFA 020 | 2   | .5 | .5 | .1  | 1000 | 1.5 | 50 | 3  | —  | 20 | 10 | —   | 70  | 5  | 20 | 5  | 50  | 5  | 300 | —   | 50  | 20  | —   | 100 |
| 34               | LFA 021 | 1   | .2 | .2 | .1  | 300  | —   | 50 | 3  | —  | —  | 5  | —   | 50  | —  | —  | —  | 20  | 5  | 300 | —   | 30  | 15  | —   | 100 |
| 35               | LFA 022 | 1.5 | .2 | .3 | .15 | 700  | 1   | 50 | 5  | —  | 20 | 7  | —   | 100 | 5  | —  | 5  | 30  | 5  | 200 | —   | 50  | 20  | —   | 150 |
| 36               | LFA 023 | 2   | .3 | .3 | .15 | 500  | .5  | 50 | 3  | —  | —  | 7  | —   | 50  | —  | —  | 5  | 50  | 5  | 300 | —   | 50  | 20  | —   | 100 |
| 43               | LFA 024 | 3   | .5 | .5 | .2  | 1500 | 1   | 70 | 5  | 10 | 50 | 20 | —   | 50  | 10 | 20 | 15 | 100 | 10 | 200 | —   | 100 | 20  | 700 | 200 |
| 44               | LFA 025 | 2   | .5 | .7 | .2  | 500  | 3   | 50 | 5  | —  | 20 | 10 | —   | 70  | 5  | —  | 10 | 70  | 7  | 500 | —   | 50  | 20  | —   | 100 |
| 45               | LFA 026 | 1   | .2 | .5 | .1  | 300  | 5   | 30 | 7  | —  | —  | 7  | —   | 50  | —  | —  | —  | 20  | 5  | —   | —   | 30  | 30  | —   | 50  |
| 47               | LFA 027 | 3   | .5 | .2 | .2  | 700  | 3   | 50 | 7  | 10 | 10 | 10 | —   | 100 | 7  | 20 | 10 | 70  | 5  | 200 | —   | 50  | 30  | —   | 200 |
| 48               | LFA 028 | .7  | .1 | .5 | .07 | 200  | 1   | 20 | 5  | —  | 10 | 7  | —   | 50  | 5  | —  | —  | 20  | —  | 150 | —   | 30  | 10  | —   | 70  |
| 49               | LFA 029 | 1   | .2 | .3 | .1  | 300  | 5   | 50 | 7  | —  | 10 | 7  | —   | 200 | 5  | 20 | —  | 20  | —  | 300 | —   | 30  | 100 | —   | 50  |
| 50               | LFA 030 | 2   | .5 | .5 | .2  | 1000 | 5   | 50 | 7  | —  | 50 | 15 | —   | 150 | —  | 20 | 10 | 50  | 5  | 200 | —   | 50  | 50  | —   | 200 |
| 225              | LFS 050 | 3   | .5 | .1 | .3  | 5000 | —   | 70 | 3  | 10 | 50 | 50 | 200 | 50  | —  | 20 | 20 | 100 | 15 | 300 | 1.5 | 150 | 30  | —   | 150 |
| 558              | LFS 007 | 2   | .5 | .1 | .5  | 700  | .5  | 20 | 5  | 10 | 50 | 10 | 300 | 150 | 5  | 20 | 10 | 50  | 15 | 700 | 11  | 100 | 50  | —   | 200 |

Big and Little Silver Creek

Table 1.--Continued  
Field Lab  
No. No.

| No. No.                                  |         | Percent |     |     |      |      |    |     |      |    |    | ppm |    |     |     |    |    |    |     |    |      |     |     |    |     |     |  |
|--|---------|---------|-----|-----|------|------|----|-----|------|----|----|-----|----|-----|-----|----|----|----|-----|----|------|-----|-----|----|-----|-----|--|
|  |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag | B   | Ba   | Be | Co | Cr  | Cu | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | U   | V   | Y  | Zn  | Zr  |  |
|  |         | .05     | .02 | .05 | .002 | 10   | .5 | 10  | 10   | 1  | 5  | 10  | 5  | 100 | 20  | 5  | 20 | 5  | 10  | 5  | 100  | .05 | 10  | 10 | 200 | 10  |  |
| Northwest Side of North Fork Boise River |         |         |     |     |      |      |    |     |      |    |    |     |    |     |     |    |    |    |     |    |      |     |     |    |     |     |  |
| 04                                       | LFA 003 | 3       | .5  | 1   | .2   | 700  | 1  | 20  | 1000 | 2  | —  | 20  | 10 | —   | 50  | —  | —  | 10 | 50  | 5  | 500  | —   | 50  | 20 | —   | 100 |  |
| 07                                       | LFA 005 | —       | .5  | 1   | .2   | 1000 | 1  | 20  | 1000 | 3  | —  | 20  | 10 | —   | 100 | —  | —  | 10 | 50  | 7  | 500  | —   | 50  | 30 | —   | 100 |  |
| 12                                       | LFA 009 | 3       | .5  | 1   | .2   | 700  | —  | 20  | 1000 | 3  | —  | 20  | 7  | —   | 200 | —  | —  | 5  | 30  | 7  | 500  | —   | 50  | 30 | —   | 200 |  |
| 13                                       | LFA 010 | 2       | .2  | 1   | .1   | 1000 | —  | 20  | 1000 | 2  | —  | 20  | 7  | —   | 100 | —  | —  | 5  | 20  | 5  | 500  | —   | 50  | 20 | —   | 200 |  |
| 14                                       | LFA 011 | 2       | .3  | 1   | .1   | 500  | .5 | 50  | 1000 | 3  | —  | 20  | 5  | —   | 100 | —  | —  | 5  | 50  | 5  | 500  | —   | 50  | 20 | —   | 100 |  |
| 216                                      | LFS 047 | 5       | .7  | .5  | .2   | 3000 | 5  | 100 | 500  | 5  | 15 | 50  | 50 | 400 | 100 | —  | 20 | 20 | 70  | 15 | 200  | 8.8 | 200 | 20 | —   | 200 |  |
| 217                                      | LFS 048 | 3       | .5  | .5  | .2   | 2000 | 2  | 50  | 500  | 3  | 10 | 50  | 30 | 400 | 50  | —  | 20 | 20 | 50  | 10 | 200  | 9.1 | 100 | 20 | —   | 150 |  |
| 226                                      | LFS 051 | 5       | .5  | 1   | .3   | 3000 | —  | 50  | 1000 | 5  | 10 | 50  | 20 | 200 | 150 | —  | 50 | 10 | 100 | 10 | 700  | 9.6 | 100 | 30 | —   | 200 |  |
| 227                                      | LFS 052 | 3       | .3  | .5  | .2   | 1500 | —  | 50  | 700  | 5  | —  | 10  | 10 | 200 | 150 | —  | 50 | 5  | 70  | 10 | 500  | 36  | 50  | 30 | —   | 150 |  |
| 230                                      | LFS 055 | 1       | 1   | 1   | .3   | 3000 | .5 | 50  | 1000 | 5  | —  | 50  | 15 | 300 | 150 | —  | 50 | 5  | 50  | 5  | 300  | 12  | 50  | 20 | —   | 100 |  |
| 231                                      | LFS 056 | 5       | 1   | .5  | .3   | 2000 | —  | 50  | 1000 | 5  | —  | 50  | 15 | 300 | 50  | —  | 30 | 10 | 10  | —  | 100  | 2.9 | 20  | —  | 20  | 20  |  |
| 239                                      | LFS 063 | 2       | .3  | 1   | .2   | 200  | .5 | 50  | 1000 | 5  | —  | 30  | 10 | 300 | 100 | —  | 20 | 5  | 30  | 5  | 500  | 40  | 50  | 30 | —   | 200 |  |
| 275                                      | LFS 026 | 3       | .5  | .7  | .3   | 1500 | —  | 30  | 1000 | 2  | —  | 10  | 10 | 200 | 200 | —  | 70 | 10 | 100 | 5  | 1000 | 1.1 | 30  | 30 | —   | 200 |  |
| 276                                      | LFS 027 | 3       | .5  | .7  | .2   | 1500 | —  | 30  | 1000 | 2  | —  | 10  | 7  | 200 | 100 | —  | 30 | 10 | 100 | 5  | 700  | 1.3 | 20  | 20 | —   | 150 |  |
| 277                                      | LFS 028 | 3       | .5  | .7  | .3   | 2000 | —  | 30  | 1000 | 2  | —  | 10  | 7  | 500 | 200 | —  | 50 | 10 | 100 | 5  | 1000 | 2.8 | 30  | 30 | —   | 200 |  |
| 351                                      | LFR 949 | 2       | .5  | 1   | .2   | 2000 | .5 | 30  | 1000 | 3  | —  | 20  | 15 | 200 | 150 | —  | 20 | 10 | 70  | 10 | 700  | 36  | 50  | 30 | —   | 200 |  |
| 353                                      | LFR 950 | 2       | .5  | 1.5 | .2   | 1000 | —  | 20  | 1000 | 1  | —  | 5   | —  | 100 | 50  | —  | 20 | 5  | 70  | —  | 1000 | 1.2 | 30  | —  | —   | 150 |  |
| 228                                      | LFS 053 | 3       | .2  | .5  | .2   | 1500 | —  | 50  | 700  | 3  | —  | —   | 10 | 300 | 100 | 5  | 30 | 5  | 70  | 5  | 500  | 9.2 | 50  | 30 | —   | 150 |  |
| 229                                      | LFS 054 | 5       | 1   | .7  | .2   | 2000 | 1  | 50  | 1000 | 3  | —  | 30  | 20 | 300 | 150 | 10 | 50 | 5  | 100 | 10 | 500  | 18  | 70  | 50 | —   | 200 |  |

Taylor Creek

|     |         |     |    |    |     |      |     |     |      |   |    |    |    |     |     |    |    |    |     |    |     |     |     |    |   |     |
|-----|---------|-----|----|----|-----|------|-----|-----|------|---|----|----|----|-----|-----|----|----|----|-----|----|-----|-----|-----|----|---|-----|
| 09  | LFA 006 | 2   | .3 | .7 | .1  | 500  | 1.5 | 30  | 1000 | 2 | 5  | 20 | 7  | —   | 50  | 10 | —  | 5  | 100 | 5  | 500 | —   | 30  | 10 | — | 100 |
| 64  | LFA 035 | 2   | .5 | .5 | .2  | 300  | .5  | 70  | 700  | 5 | —  | 50 | 15 | —   | 50  | —  | —  | 10 | 50  | 7  | 250 | —   | 70  | 20 | — | 300 |
| 66  | LFA 036 | 2   | .7 | .3 | .2  | 200  | .5  | 100 | 500  | 3 | —  | 70 | 20 | —   | 50  | —  | —  | 20 | 20  | 10 | 150 | —   | 70  | 20 | — | 100 |
| 67  | LFA 037 | 1   | .2 | .3 | .1  | 200  | —   | 50  | 300  | 3 | —  | 50 | 10 | —   | 50  | —  | —  | 10 | 20  | 5  | 100 | —   | 50  | 20 | — | 70  |
| 68  | LFA 038 | 1.5 | .5 | .5 | .15 | 300  | —   | 50  | 500  | 3 | 10 | 30 | 7  | —   | 70  | —  | —  | 5  | 20  | 5  | 200 | —   | 50  | 20 | — | 70  |
| 69  | LFA 039 | 3   | .7 | .5 | .2  | 2000 | 1   | 100 | 700  | 5 | —  | 50 | 20 | —   | 70  | —  | 20 | 20 | 70  | 7  | 200 | —   | 70  | 30 | — | 150 |
| 71  | LFA 040 | 1   | .2 | .5 | .15 | 300  | —   | 50  | 700  | 3 | —  | 50 | 7  | —   | 50  | —  | —  | 10 | 30  | 7  | 200 | —   | 50  | 10 | — | 70  |
| 94  | LFA 045 | 2   | .5 | .5 | .2  | 500  | .5  | 50  | 1000 | 3 | —  | 20 | 10 | —   | 100 | 5  | 20 | 10 | 30  | 7  | 300 | —   | 50  | 50 | — | 150 |
| 95  | LFA 046 | 2   | .2 | .5 | .15 | 700  | .5  | 20  | 1000 | 3 | —  | 10 | 7  | —   | 50  | —  | 20 | 5  | 50  | 5  | 300 | —   | 30  | 15 | — | 70  |
| 96  | LFA 047 | 1.5 | .2 | .5 | .1  | 500  | .5  | 20  | 700  | 5 | —  | 20 | 7  | —   | 50  | —  | —  | 5  | 30  | 5  | 300 | —   | 50  | 10 | — | 100 |
| 97  | LFA 048 | 1.5 | .2 | .7 | .1  | 500  | .5  | 20  | 700  | 3 | —  | 50 | 5  | —   | 70  | —  | —  | 7  | 30  | 5  | 300 | —   | 50  | 20 | — | 100 |
| 98  | LFA 049 | 2   | .5 | .5 | .15 | 500  | .5  | 20  | 700  | 3 | —  | 50 | 10 | —   | 50  | —  | —  | 10 | 30  | 5  | 300 | —   | 50  | 20 | — | 100 |
| 99  | LFA 050 | 1.5 | .3 | .7 | .15 | 300  | .5  | 30  | 700  | 3 | —  | 50 | 10 | —   | 50  | —  | —  | 10 | 20  | 5  | 300 | —   | 50  | 20 | — | 70  |
| 100 | LFA 051 | 2   | .3 | .7 | .1  | 500  | .5  | 50  | 500  | 5 | —  | 50 | 10 | —   | 70  | —  | —  | 10 | 50  | 5  | 200 | —   | 70  | 30 | — | 70  |
| 219 | LFS 049 | 5   | 1  | .7 | .5  | 1500 | —   | 70  | 700  | 3 | 10 | 50 | 50 | 300 | 50  | —  | 20 | 20 | 100 | 15 | 300 | 5.7 | 150 | 30 | — | 200 |

Table 1.--Continued

| Field Lab<br>No. | Fe<br>Percent | Mg<br>Percent | Ca  | Ti  | Mn   | Ag  | B   | Ba   | Be  | Co | Cr  | Cu  | F   | La  | Mo | Nb  | Ni | Pb  | Sc | Sr  | U   | V   | Y  | Zn  | Zr   |
|------------------|---------------|---------------|-----|-----|------|-----|-----|------|-----|----|-----|-----|-----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|------|
| ppm              |               |               |     |     |      |     |     |      |     |    |     |     |     |     |    |     |    |     |    |     |     |     |    |     |      |
| Crooked River    |               |               |     |     |      |     |     |      |     |    |     |     |     |     |    |     |    |     |    |     |     |     |    |     |      |
| 109 LFA 076      | 1             | .1            | .2  | .07 | 200  | —   | 20  | 300  | 5   | —  | 30  | 7   | —   | 50  | —  | —   | —  | 20  | —  | —   | —   | 50  | 15 | —   | 200  |
| 110 LFA 096      | 3             | .5            | .5  | .2  | 700  | 1   | 50  | 1000 | 5   | 5  | 50  | 100 | —   | 50  | 7  | 30  | 5  | 50  | 5  | 200 | —   | 70  | 20 | —   | 100  |
| 111 LFA 077      | 3             | .5            | .7  | .2  | 1000 | .7  | 20  | 700  | 5   | 5  | 50  | 10  | —   | 50  | 20 | 20  | 10 | 20  | 7  | 300 | —   | 50  | 20 | —   | 100  |
| 112 LFA 078      | 5             | 1             | .7  | .5  | 700  | .5  | 20  | 1000 | 3   | 10 | 70  | 20  | —   | 70  | 10 | 20  | 20 | 30  | 10 | 500 | —   | 70  | 20 | —   | 150  |
| 113 LFA 079      | .5            | .1            | .7  | .07 | 500  | .5  | 20  | 500  | 7   | —  | 30  | 30  | —   | 50  | 5  | —   | 5  | 15  | —  | 200 | —   | 50  | 10 | —   | 50   |
| 115 LFA 080      | 1             | .2            | .7  | .1  | 300  | .5  | 20  | 500  | 5   | —  | 50  | 30  | —   | 50  | 10 | —   | 5  | 10  | —  | 200 | —   | 50  | 20 | —   | 70   |
| 116 LFA 081      | 1.5           | .3            | .7  | .15 | 500  | .5  | 50  | 500  | 7   | —  | 50  | 30  | —   | 50  | 10 | —   | 5  | 20  | 5  | 200 | —   | 50  | 20 | —   | 150  |
| 117 LFA 082      | 5             | 1             | .5  | .3  | 1000 | .5  | 70  | 1000 | 7   | 5  | 50  | 50  | —   | 70  | 20 | 20  | 20 | 50  | 20 | 200 | —   | 50  | 20 | —   | 150  |
| 118 LFA 083      | 2             | .5            | .7  | .2  | 1000 | —   | 50  | 1000 | 5   | 5  | 50  | 20  | —   | 70  | —  | —   | 20 | 20  | 20 | 300 | —   | 70  | 30 | —   | 150  |
| 119 LFA 084      | 1             | .3            | .7  | .1  | 500  | 1   | 30  | 700  | 5   | 5  | 50  | 20  | —   | 70  | —  | —   | 10 | 20  | 10 | 300 | —   | 50  | 20 | —   | 70   |
| 120 LFA 085      | 2             | .7            | .5  | .2  | 700  | 1   | 30  | 1000 | 10  | 5  | 100 | 20  | —   | 70  | 10 | —   | 20 | 50  | 10 | 300 | —   | 70  | 20 | —   | 100  |
| 121 LFA 086      | 2             | .7            | .5  | .2  | 700  | 1   | 30  | 1000 | 15  | 10 | 70  | 20  | —   | 50  | 5  | 20  | 20 | 70  | 10 | 300 | —   | 50  | 20 | —   | 150  |
| 122 LFA 087      | 3             | 1             | .7  | .2  | 500  | .7  | 30  | 1000 | 7   | 10 | 70  | 20  | —   | 100 | —  | —   | 20 | 50  | 10 | 300 | —   | 50  | 20 | —   | 100  |
| 123 LFA 088      | 3             | .5            | .5  | .2  | 500  | 1.5 | 30  | 1000 | 7   | 7  | 70  | 20  | —   | 70  | —  | —   | 20 | 50  | 10 | 300 | —   | 50  | 20 | —   | 150  |
| 124 LFA 089      | 1.5           | .2            | .5  | .15 | 500  | 1   | 30  | 700  | 5   | 5  | 50  | 7   | —   | 70  | —  | 20  | —  | 20  | 7  | 300 | —   | 50  | 30 | —   | 100  |
| 125 LFA 090      | .7            | .1            | .5  | .1  | 500  | .7  | 20  | 500  | 3   | —  | 30  | 7   | —   | 50  | —  | —   | —  | 15  | —  | 200 | —   | 50  | 20 | —   | 70   |
| 126 LFA 091      | 2             | .5            | .7  | .2  | 700  | .7  | 50  | 1000 | 5   | —  | 50  | 7   | —   | 50  | —  | —   | 10 | 50  | 7  | 300 | —   | 50  | 20 | 200 | 200  |
| 127 LFA 092      | 2             | .5            | .7  | .2  | 700  | 1   | 50  | 1000 | 3   | 5  | 50  | 10  | —   | 70  | —  | 100 | 20 | 70  | 10 | 300 | —   | 50  | 20 | 200 | 200  |
| 128 LFA 093      | 3             | .7            | 1   | .2  | 1000 | 1   | 50  | 1000 | 3   | —  | 70  | 10  | —   | 50  | —  | —   | 10 | 30  | 7  | 500 | —   | 50  | 20 | —   | 100  |
| 59 LFA 031       | 2             | .5            | .5  | .2  | 1000 | —   | 30  | 300  | 7   | —  | 10  | 5   | —   | 70  | —  | 20  | —  | 70  | 5  | 150 | —   | 20  | 15 | —   | 300  |
| 60 LFA 032       | .5            | .15           | 1   | .07 | 700  | —   | 30  | 200  | 7   | —  | —   | 5   | —   | 50  | —  | —   | —  | 10  | —  | 100 | —   | 20  | 10 | —   | 200  |
| 61 LFA 033       | 3             | .3            | .5  | .2  | 1000 | —   | 30  | 300  | 7   | —  | 10  | 5   | —   | 70  | —  | 50  | 5  | 70  | 5  | 100 | —   | 50  | 20 | —   | 300  |
| 62 LFA 034       | 3             | .5            | .5  | .2  | 1000 | —   | 30  | 1000 | 3   | —  | 30  | 10  | —   | 100 | —  | 20  | 10 | 70  | 5  | 500 | —   | 50  | 20 | 200 | 100  |
| 72 LFA 041       | 2             | .5            | .5  | .2  | 2000 | .7  | 100 | 500  | 10  | —  | 50  | 20  | —   | 100 | —  | —   | 15 | 50  | 7  | 200 | —   | 70  | 50 | —   | 100  |
| 74 LFA 042       | 1             | .2            | .5  | .15 | 700  | .5  | 50  | 300  | 10  | —  | 50  | 7   | —   | 50  | —  | 20  | 5  | 20  | 5  | —   | —   | 50  | 30 | —   | 70   |
| 75 LFA 043       | .5            | .1            | .5  | .05 | 500  | —   | 20  | 150  | 5   | —  | 50  | 5   | —   | 50  | —  | —   | —  | 10  | —  | —   | —   | 20  | 30 | —   | 30   |
| 307 LFA 095      | 3             | .7            | 1   | .5  | 700  | 2   | 50  | 1000 | 5   | 10 | 100 | 150 | —   | 50  | 7  | 30  | 10 | 20  | 10 | 300 | —   | 100 | 20 | —   | 300  |
| 310 LFR 929      | 10            | 1.5           | 1   | .7  | 2000 | —   | 20  | 70   | 1.5 | 30 | 150 | 70  | —   | 200 | 5  | 30  | 20 | 30  | 20 | 500 | —   | 150 | 30 | —   | 500  |
| 311 LFR 930      | 5             | 1             | 1   | .5  | 1000 | —   | 20  | 700  | 2   | 20 | 100 | 50  | —   | 200 | —  | 50  | 20 | 70  | 20 | 500 | —   | 100 | 30 | —   | 200  |
| 545 LFS 003      | 5             | .7            | .3  | .5  | 2000 | .5  | 20  | 700  | 3   | 20 | 50  | 20  | 400 | 70  | —  | 30  | 20 | 100 | 15 | 200 | 1.9 | 100 | 30 | —   | 200  |
| 547 LFS 004      | 1             | .2            | .5  | .3  | 300  | —   | 20  | 500  | 2   | 20 | 30  | 15  | 500 | 50  | 5  | 20  | 10 | 10  | 5  | 200 | 20  | 50  | 20 | —   | 150  |
| 548 LFS 005      | 3             | 1             | 1   | .5  | 2000 | .5  | 100 | 1000 | 2   | 20 | 150 | 100 | 500 | 70  | 15 | 30  | 20 | 50  | 15 | 700 | 11  | 150 | 20 | —   | 300  |
| 555 LFS 006      | 7             | 1             | .7  | .7  | 5000 | 10  | 50  | 1000 | 3   | 20 | 100 | 200 | 300 | 200 | 5  | 30  | 50 | 150 | 20 | 500 | 3.7 | 150 | 70 | —   | 200  |
| 557 LGU 734      | 3             | .5            | 1   | .5  | 1000 | 3   | 20  | 1000 | 15  | 5  | 50  | 200 | —   | 100 | 50 | 20  | 15 | 70  | 10 | 500 | —   | 100 | 50 | —   | 100  |
| 758 LGU 735      | 5             | .7            | 1.5 | .7  | 1000 | 2   | 20  | 1000 | 5   | 10 | 70  | 70  | —   | 100 | 20 | 70  | 15 | 70  | 15 | 500 | —   | 100 | 50 | —   | 500  |
| 140 LFA 097      | 10            | 2             | 2   | .5  | 1000 | —   | 20  | 1000 | 2   | 20 | 150 | 100 | —   | 100 | 5  | 30  | 10 | 20  | 20 | 500 | —   | 150 | 30 | —   | 1000 |



Table 1.--Continued

| Field No.  | Lab No. | Percent |     |     |      |       |     |     |      |     |    |     |    |     |     | ppm |    |    |     |    |      |      |     |     |    |     |     |    |  | Zr |
|------------|---------|---------|-----|-----|------|-------|-----|-----|------|-----|----|-----|----|-----|-----|-----|----|----|-----|----|------|------|-----|-----|----|-----|-----|----|--|----|
|            |         | Fe      | Mg  | Ca  | Ti   | Mn    | Ag  | B   | Ba   | Be  | Co | Cr  | Cu | F   | La  | Mo  | Nb | Ni | Pb  | Sc | Sr   | U    | V   | Y   | Zn |     |     |    |  |    |
|            |         | .05     | .02 | .05 | .002 | 10    | .5  | 10  | 10   | 1   | 5  | 10  | 5  | 10  | 5   | 100 | 20 | 5  | 20  | 5  | 10   | 5    | 100 | .05 | 10 | 10  | 200 | 10 |  |    |
| BEAR RIVER |         |         |     |     |      |       |     |     |      |     |    |     |    |     |     |     |    |    |     |    |      |      |     |     |    |     |     |    |  |    |
| 01         | LFA 001 | 2       | .5  | 1   | .15  | 500   | 2   | 20  | 1000 | 3   | —  | 50  | 15 | —   | 70  | —   | —  | 10 | 50  | 10 | 500  | —    | 50  | 30  | —  | 100 |     |    |  |    |
| 03         | LFA 002 | 3       | .5  | 1   | .2   | 700   | .5  | 20  | 1000 | 2   | —  | 20  | 10 | —   | 50  | —   | —  | 7  | 50  | 7  | 500  | —    | 50  | 20  | —  | 200 |     |    |  |    |
| 255        | LFS 010 | 2       | .3  | .7  | .2   | 2000  | —   | 50  | 1000 | 3   | —  | 20  | 15 | 300 | 50  | —   | —  | 10 | 70  | 7  | 300  | 14   | 50  | 20  | —  | 200 |     |    |  |    |
| 256        | LFS 011 | 2       | .3  | .7  | .2   | 2000  | 1   | 30  | 1000 | 3   | —  | 200 | 15 | 300 | 100 | —   | 20 | 5  | 70  | 5  | 300  | 10   | 50  | 20  | —  | 150 |     |    |  |    |
| 257        | LFA 012 | 5       | .3  | .5  | .3   | 2000  | —   | 30  | 700  | 3   | —  | 50  | 15 | 200 | 100 | —   | 50 | 10 | 100 | 10 | 300  | —    | 50  | 30  | —  | 300 |     |    |  |    |
| 258        | LFS 013 | 3       | .5  | .5  | .3   | 1500  | .5  | 70  | 1000 | 5   | —  | 30  | 15 | 300 | 100 | 7   | 50 | 10 | 150 | 10 | 500  | 30   | 50  | 30  | —  | 200 |     |    |  |    |
| 315        | LFR 931 | 2       | .2  | .5  | .15  | 700   | —   | 50  | 700  | 1.5 | —  | —   | 5  | 300 | 50  | —   | 20 | 5  | 20  | —  | 500  | 5.7  | 20  | 10  | —  | 100 |     |    |  |    |
| 316        | LFR 932 | 3       | .5  | .7  | .3   | 2000  | —   | 20  | 700  | 2   | 10 | 20  | 10 | 200 | 200 | —   | 20 | 5  | 70  | 10 | 500  | 13   | 70  | 30  | —  | 300 |     |    |  |    |
| 317        | LFR 933 | 3       | .5  | .7  | .3   | 2000  | —   | 50  | 1000 | 2   | 10 | 10  | 10 | 200 | 200 | —   | 30 | 5  | 50  | 10 | 1000 | 2.1  | 50  | 30  | —  | 300 |     |    |  |    |
| 318        | LFR 934 | 2       | .5  | .7  | .2   | 1500  | —   | 20  | 700  | 2   | 10 | 20  | 10 | 300 | 100 | —   | 20 | 10 | 50  | 5  | 500  | 5.7  | 30  | 10  | —  | 100 |     |    |  |    |
| 319        | LFR 935 | 5       | .7  | 1   | .5   | 2000  | —   | 30  | 700  | 2   | 10 | 20  | 20 | 300 | 200 | 5   | 30 | 20 | 70  | 10 | 700  | 26   | 100 | 50  | —  | 300 |     |    |  |    |
| 322        | LFR 936 | 5       | .3  | .7  | .5   | 1500  | —   | 30  | 500  | 5   | 10 | 50  | 15 | 300 | 500 | —   | 50 | —  | 50  | 10 | 500  | 36   | 150 | 50  | —  | 700 |     |    |  |    |
| 323        | LFR 937 | 5       | .5  | 1   | .5   | 2000  | .5  | 30  | 700  | 5   | 10 | 20  | 15 | 600 | 300 | —   | 50 | 5  | 150 | 15 | 500  | 26   | 70  | 30  | —  | 200 |     |    |  |    |
| 329        | LFR 938 | 2       | .3  | .5  | .2   | 1500  | —   | 20  | 500  | 3   | —  | 10  | 10 | 200 | 150 | —   | 30 | 5  | 100 | 5  | 200  | 5.7  | 50  | 20  | —  | 100 |     |    |  |    |
| 330        | LFR 939 | 5       | 1.5 | 1   | .7   | 2000  | —   | 30  | 1500 | 2   | 20 | 200 | 70 | 500 | 200 | 10  | 50 | 20 | 100 | 20 | 1000 | 8.5  | 200 | 30  | —  | 500 |     |    |  |    |
| 522        | LFR 986 | 3       | .5  | .7  | .3   | 10000 | —   | 50  | 500  | 5   | 10 | 50  | 50 | 200 | 100 | —   | —  | 10 | 70  | 10 | 300  | 3.5  | 150 | 30  | —  | 100 |     |    |  |    |
| 523        | LFR 987 | 3       | .5  | 1   | .5   | 3000  | .5  | 50  | 700  | 5   | —  | 50  | 30 | 200 | 100 | —   | 20 | 10 | 70  | 15 | 500  | 25   | 50  | 50  | —  | 150 |     |    |  |    |
| 525        | LFR 988 | 3       | .5  | .7  | .3   | 3000  | —   | 70  | 700  | 5   | —  | 50  | 30 | 200 | 50  | —   | —  | 20 | 50  | 10 | 300  | 14   | 100 | 30  | —  | 150 |     |    |  |    |
| 526        | LFR 989 | 3       | .5  | .7  | .3   | 2000  | .5  | 50  | 700  | 5   | 10 | 70  | 20 | 200 | 100 | —   | 20 | 20 | 50  | 15 | 300  | 21   | 100 | 30  | —  | 150 |     |    |  |    |
| 527        | LFR 990 | 5       | .7  | 1   | .5   | 2000  | .5  | 50  | 1000 | 5   | 10 | 70  | 20 | 200 | 100 | —   | 30 | 20 | 70  | 15 | 700  | 16   | 100 | 30  | —  | 200 |     |    |  |    |
| 528        | LFR 991 | 1       | .2  | .7  | .2   | 1500  | —   | 30  | 500  | 3   | 6  | 50  | 15 | 200 | 100 | —   | —  | 5  | 50  | 5  | 500  | 25   | 50  | 30  | —  | 150 |     |    |  |    |
| 532        | LFR 992 | 3       | .5  | .3  | .5   | 2000  | —   | 30  | 500  | 5   | —  | 50  | 10 | 300 | 100 | —   | 30 | 10 | 70  | 10 | 300  | 18   | 50  | 30  | —  | 200 |     |    |  |    |
| 533        | LFR 993 | 3       | .7  | .7  | .5   | 3000  | 1.5 | 50  | 1000 | 5   | —  | 70  | 20 | 400 | 100 | —   | 20 | 15 | 70  | 10 | 700  | 32   | 100 | 30  | —  | 150 |     |    |  |    |
| 534        | LFR 994 | 3       | .7  | 1   | .5   | 3000  | .5  | 50  | 1000 | 3   | 10 | 100 | 20 | 200 | 100 | 10  | 50 | 20 | 100 | 10 | 700  | 21   | 100 | 30  | —  | 200 |     |    |  |    |
| BEAR CREEK |         |         |     |     |      |       |     |     |      |     |    |     |    |     |     |     |    |    |     |    |      |      |     |     |    |     |     |    |  |    |
| 10         | LFA 007 | 2       | .5  | .7  | .2   | 700   | .5  | 30  | 1000 | 2   | —  | 30  | 10 | —   | 70  | —   | 20 | 15 | 30  | 7  | 500  | 50   | 20  | 20  | —  | 100 |     |    |  |    |
| 11         | LFA 008 | 2       | .5  | .7  | .2   | 500   | 1   | 20  | 1000 | 2   | —  | 30  | 7  | —   | 100 | —   | 20 | 10 | 50  | 5  | 500  | 50   | 20  | 20  | —  | 100 |     |    |  |    |
| 535        | LFR 995 | 3       | .7  | 1   | .5   | 2000  | .5  | 50  | 1000 | 2   | 10 | 100 | 20 | 200 | 100 | —   | 50 | 15 | 100 | 10 | 700  | 8    | 100 | 30  | —  | 200 |     |    |  |    |
| 536        | LFR 996 | 2       | .5  | .5  | .3   | 1500  | 1   | 30  | 1000 | 2   | —  | 50  | 10 | 200 | 70  | —   | 20 | 10 | 50  | 5  | 700  | 10   | 50  | 20  | —  | 100 |     |    |  |    |
| 537        | LFR 997 | 3       | .5  | .7  | .3   | 1000  | —   | 30  | 700  | 2   | 10 | 70  | 20 | 400 | 70  | —   | 20 | 15 | 50  | 10 | 700  | 14   | 100 | 20  | —  | 150 |     |    |  |    |
| 538        | LFR 998 | 2       | .3  | .7  | .2   | 1000  | 1   | 50  | 700  | 3   | 10 | 30  | 15 | 300 | 70  | —   | 20 | 10 | 50  | 5  | 700  | 40   | 50  | 20  | —  | 150 |     |    |  |    |
| 539        | LFR 999 | 5       | .5  | .7  | .5   | 1000  | —   | 30  | 700  | 2   | 15 | 70  | 20 | 200 | 70  | —   | 30 | 20 | 50  | 15 | 500  | 9.6  | 100 | 20  | —  | 150 |     |    |  |    |
| 540        | LFS 001 | 2       | .5  | .7  | .2   | 2000  | 2   | 20  | 700  | 3   | —  | 50  | 20 | 400 | 70  | —   | —  | 10 | 70  | 5  | 500  | 13   | 50  | 20  | —  | 150 |     |    |  |    |
| 543        | LFS 002 | .5      | .15 | .5  | .05  | 100   | —   | 100 | 150  | 5   | —  | 10  | 20 | 300 | 50  | —   | —  | —  | 20  | —  | 100  | 13.3 | 30  | 20  | —  | 10  |     |    |  |    |

Table 1.--Continued

| Field Lab<br>No. | Fe      | Percent |    |    |     |       |    |     |      |    |    | ppm |    |     |     |    |     |    |     |    |      | U   | V   | Y  | Zn | Zr  |
|------------------|---------|---------|----|----|-----|-------|----|-----|------|----|----|-----|----|-----|-----|----|-----|----|-----|----|------|-----|-----|----|----|-----|
|                  |         | Mg      | Ca | Ti | Mn  | Ag    | B  | Ba  | Be   | Co | Cr | Cu  | F  | La  | Mo  | Nb | Ni  | Pb | Sc  | Sr |      |     |     |    |    |     |
| Bow Creek        |         |         |    |    |     |       |    |     |      |    |    |     |    |     |     |    |     |    |     |    |      |     |     |    |    |     |
| 242              | LFS 064 | 2       | .5 | .7 | .3  | 1500  | 1  | 50  | 1000 | 5  | —  | 30  | 10 | 300 | 100 | —  | 30  | 5  | 100 | 10 | 500  | 12  | 50  | 30 | —  | 200 |
| 243              | LFS 065 | 3       | .7 | .7 | .3  | 5000  | 1  | 50  | 1000 | 5  | —  | 30  | 50 | 300 | 150 | —  | 20  | 10 | 100 | 10 | 500  | 2.8 | 100 | 50 | —  | 200 |
| 244              | LFS 066 | 3       | .5 | .5 | .2  | 2000  | .5 | 50  | 1000 | 3  | —  | 10  | 10 | 200 | 100 | —  | 50  | —  | 100 | 10 | 500  | 18  | 50  | 20 | —  | 200 |
| 245              | LFS 067 | 5       | .5 | .7 | .3  | 2000  | .7 | 50  | 1000 | 3  | —  | 20  | 20 | 300 | 200 | —  | 30  | 5  | 100 | 10 | 700  | 2   | 70  | 30 | —  | 300 |
| 246              | LFS 068 | .5      | .1 | .7 | .05 | 1500  | —  | 20  | 500  | 2  | —  | 10  | 10 | 100 | 50  | —  | —   | —  | 10  | —  | 200  | 5.3 | 20  | —  | —  | 30  |
| 248              | LFS 069 | 5       | .5 | .7 | .5  | 1000  | .5 | 50  | 1000 | 2  | 10 | 50  | 20 | 200 | 100 | —  | 50  | 10 | 100 | 10 | 500  | 2.5 | 150 | 30 | —  | 200 |
| 249              | LFS 070 | 3       | .5 | .7 | .3  | 2000  | —  | 30  | 1000 | 3  | 10 | 50  | 15 | 100 | 100 | —  | 20  | 10 | 100 | 10 | 700  | 3.5 | 70  | 30 | —  | 300 |
| 356              | LFR 951 | 3       | .5 | .7 | .3  | 2000  | —  | 20  | 1000 | 2  | —  | 20  | 7  | 200 | 300 | —  | 30  | 5  | 70  | 5  | 1000 | 6.2 | 50  | 70 | —  | 300 |
| 403              | LFS 071 | 5       | .5 | .7 | .5  | 2000  | .5 | 50  | 1500 | 2  | 10 | 50  | 15 | 200 | 150 | 10 | 20  | 10 | 150 | 10 | 700  | 5.3 | 70  | 50 | —  | 200 |
| 406              | LFS 072 | 3       | .3 | .5 | .2  | 2000  | .5 | 50  | 700  | 2  | —  | 20  | 10 | 200 | 100 | —  | —   | 5  | 100 | 5  | 500  | 9.1 | 50  | 30 | —  | 100 |
| 407              | LFS 073 | 3       | .5 | .5 | .2  | 2000  | .5 | 50  | 1000 | 5  | —  | 20  | 50 | 400 | 150 | —  | 20  | 5  | 200 | 7  | 500  | 17  | 70  | 30 | —  | 200 |
| 408              | LFS 074 | 2       | .3 | .7 | .2  | 2000  | .5 | 50  | 1000 | 5  | —  | 20  | 20 | 200 | 200 | —  | 20  | 10 | 50  | 5  | 500  | 16  | 70  | 50 | —  | 300 |
| Chapman Creek    |         |         |    |    |     |       |    |     |      |    |    |     |    |     |     |    |     |    |     |    |      |     |     |    |    |     |
| 175              | LFV 012 | 2       | .3 | .5 | .2  | 1000  | —  | 20  | 500  | 1  | —  | 10  | —  | —   | 100 | —  | 20  | —  | 30  | 5  | 500  | —   | 50  | 20 | —  | 200 |
| 286              | LFS 031 | 2       | .5 | .5 | .3  | 5000  | —  | 70  | 700  | 3  | 10 | 10  | 20 | 500 | 70  | —  | 50  | 10 | 30  | 10 | 300  | 1.2 | 100 | 20 | —  | 150 |
| 287              | LFS 032 | 5       | 1  | .5 | .5  | 5000  | —  | 70  | 1000 | 2  | 15 | 70  | 70 | 400 | 100 | —  | 70  | 20 | 100 | 15 | 500  | 1.3 | 100 | 20 | —  | 200 |
| 289              | LFS 033 | 5       | 1  | .7 | .7  | 5000  | —  | 70  | 1000 | 3  | 15 | 100 | 50 | 400 | 100 | —  | 50  | 30 | 50  | 20 | 500  | 1.6 | 150 | 30 | —  | 300 |
| 291              | LFS 034 | 3       | .5 | 1  | .5  | 10000 | —  | 70  | 1000 | 2  | 10 | 20  | 50 | 300 | 50  | —  | 30  | 20 | 70  | 10 | 500  | .7  | 150 | 20 | —  | 150 |
| 449              | LFS 078 | 3       | .3 | .5 | .2  | 3000  | —  | 50  | 700  | 5  | —  | 20  | 20 | 500 | 70  | —  | 30  | 5  | 70  | 5  | 500  | 169 | 100 | 30 | —  | 200 |
| 580              | LGJ 769 | 2       | .2 | .2 | .2  | 700   | —  | 30  | 1000 | 2  | 5  | 10  | 10 | —   | 100 | —  | 50  | —  | 50  | 5  | 500  | —   | 50  | 30 | —  | 200 |
| 581              | LGJ 770 | 2       | .3 | 1  | .2  | 700   | —  | 30  | 700  | 2  | 5  | 10  | 5  | —   | 50  | —  | 70  | —  | 70  | 5  | 500  | —   | 50  | 30 | —  | 200 |
| 582              | LGJ 771 | 3       | .7 | 2  | .3  | 1000  | —  | 50  | 1000 | 2  | 5  | —   | 10 | —   | 150 | —  | 30  | —  | 70  | 10 | 700  | —   | 70  | 30 | —  | 200 |
| 600              | LFS 079 | 2       | .3 | 1  | .2  | 2000  | .5 | 70  | 700  | 7  | —  | 20  | 15 | 500 | 70  | —  | 50  | 5  | 70  | 7  | 500  | 358 | 70  | 50 | —  | 150 |
| 601              | LFS 080 | 5       | .5 | 1  | .5  | 5000  | —  | 100 | 1000 | 5  | —  | 30  | 15 | 600 | 100 | 5  | 100 | 5  | 150 | 10 | 700  | 37  | 100 | 50 | —  | 300 |
| 602              | LFS 081 | 5       | .7 | .7 | .5  | 5000  | —  | 70  | 1000 | 3  | 10 | 70  | 50 | 500 | 70  | —  | 50  | 15 | 100 | 10 | 500  | 1.9 | 150 | 50 | —  | 200 |

Table 1.--Continued

| Field Lab<br>No.                                     | No.     | Fe  | Percent |     |      | ppm  |    |    |      |    |    |    |    |     |     |    |    |    |     |    |      |     |     |    |    |     |    |
|--|---------|-----|---------|-----|------|------|----|----|------|----|----|----|----|-----|-----|----|----|----|-----|----|------|-----|-----|----|----|-----|----|
|  |         |     | Mg      | Ca  | Ti   | Mn   | Ag | B  | Ba   | Be | Co | Cr | Cu | F   | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | U   | V   | Y  | Zn | Zr  |    |
|  |         | .05 | .02     | .05 | .002 | 10   | .5 | 10 | 10   | 1  | 5  | 10 | 5  | 100 | 20  | 5  | 20 | 5  | 10  | 10 | 5    | 100 | 05  | 10 | 10 | 200 | 10 |
| Drainage on southeast side of North Fork Boise River |         |     |         |     |      |      |    |    |      |    |    |    |    |     |     |    |    |    |     |    |      |     |     |    |    |     |    |
| 334  | LFR 940 | 2   | .2      | .5  | .2   | 1000 | —  | 30 | 500  | 3  | —  | 10 | 15 | 200 | 50  | —  | —  | 10 | 20  | 5  | 300  | 4.7 | 30  | 20 | —  | 100 |    |
| 335  | LFR 941 | 2   | .3      | .7  | .2   | 1000 | .7 | 30 | 1000 | 2  | —  | 20 | 10 | 200 | 100 | —  | 30 | 10 | 50  | 5  | 700  | 28  | 30  | 20 | —  | 100 |    |
| 345  | LFR 944 | 1   | .3      | .7  | .2   | 1500 | —  | 30 | 500  | 3  | —  | 30 | 20 | 200 | 50  | —  | —  | 5  | 30  | 5  | 200  | 15  | 50  | 10 | —  | 70  |    |
| 346  | LFR 945 | 2   | .5      | .7  | .3   | 1000 | —  | 30 | 700  | 2  | —  | 50 | 15 | 100 | 100 | —  | 20 | 20 | 50  | 5  | 500  | 9.8 | 50  | 20 | —  | 150 |    |
| 348  | LFR 946 | 2   | .5      | 1   | .3   | 2000 | .5 | 50 | 700  | 3  | —  | 50 | 20 | 200 | 50  | —  | 20 | 10 | 30  | 10 | 300  | 49  | 100 | 20 | —  | 70  |    |
| 349  | LFR 947 | 1   | .2      | .7  | .2   | 1500 | —  | 30 | 700  | 2  | —  | 10 | 15 | 200 | 50  | —  | —  | 10 | 20  | 5  | 300  | 19  | 50  | 10 | —  | 100 |    |
| 350  | LFR 948 | 2   | .5      | .7  | .2   | 1500 | —  | 30 | 1000 | 2  | —  | 50 | 10 | 200 | 100 | —  | 20 | 15 | 50  | 5  | 500  | 20  | 50  | 30 | —  | 150 |    |
| 232  | LFS 057 | 3   | .5      | 1   | .2   | 1500 | 2  | 50 | 700  | 5  | —  | 50 | 20 | 200 | 100 | —  | 20 | 10 | 70  | 10 | 700  | 32  | 100 | 50 | —  | 200 |    |
| 233  | LFS 058 | 5   | 1       | 1   | .5   | 5000 | 2  | 50 | 1000 | 5  | —  | 50 | 50 | 300 | 150 | —  | 20 | 10 | 100 | 15 | 1000 | 14  | 100 | 50 | —  | 200 |    |
| 234  | LFS 059 | 5   | .5      | .7  | .3   | 1500 | 1  | 50 | 1000 | 5  | —  | 30 | 10 | 300 | 200 | —  | 30 | 10 | 70  | 10 | 700  | 13  | 100 | 50 | —  | 200 |    |
| 235  | LFS 060 | 3   | .5      | .7  | .2   | 1000 | —  | 50 | 1000 | 3  | —  | 20 | 10 | 200 | 200 | —  | 30 | 10 | 70  | 5  | 700  | 18  | 50  | 30 | —  | 200 |    |
| 236  | LFS 061 | .3  | .02     | .3  | .03  | 100  | —  | —  | 100  | 3  | —  | —  | 10 | 100 | 50  | —  | —  | —  | 10  | —  | 100  | 32  | 20  | —  | —  | 20  |    |
| 237  | LFS 062 | 5   | .5      | .7  | .5   | 2000 | .5 | 70 | 1000 | 5  | —  | 30 | 20 | 300 | 200 | —  | 30 | 15 | 70  | 10 | 500  | 16  | 100 | 70 | —  | 200 |    |
| 269  | LFS 021 | 2   | .5      | 1   | .5   | 1500 | —  | 50 | 1000 | 2  | —  | 50 | 10 | 200 | 150 | —  | 70 | 5  | 70  | 10 | 1000 | 11  | 50  | 30 | —  | 200 |    |
| 270  | LFS 022 | 2   | .2      | .7  | .2   | 2000 | —  | 50 | 700  | 2  | —  | 10 | 10 | 200 | 100 | —  | 50 | 5  | 50  | 5  | 700  | 13  | 30  | 30 | —  | 150 |    |
| 271  | LFS 023 | 1   | .2      | .5  | .15  | 1500 | —  | 50 | 700  | 3  | —  | 10 | 10 | 200 | 100 | —  | 50 | 5  | 50  | 5  | 500  | 45  | 30  | 20 | —  | 100 |    |
| 272  | LFS 024 | 5   | .7      | 1   | .5   | 3000 | —  | 50 | 1500 | 2  | 10 | 70 | 15 | 300 | 150 | —  | 50 | 15 | 50  | 10 | 700  | 5.1 | 70  | 30 | —  | 200 |    |
| 273  | LFS 025 | 2   | .3      | .7  | .2   | 2000 | —  | 50 | 1000 | 3  | 10 | 20 | 15 | 200 | 70  | —  | 50 | 20 | 50  | 5  | 500  | 18  | 50  | 20 | —  | 153 |    |
| 151  | LFS 990 | 2   | .5      | .5  | .2   | 1000 | —  | 20 | 700  | 2  | —  | 20 | 5  | —   | 50  | —  | 50 | 7  | 70  | —  | 700  | —   | 50  | 30 | —  | 150 |    |

## Southeast side of Payette River

|     |         |    |    |    |    |       |   |    |      |     |    |     |    |     |     |    |    |    |     |    |     |     |     |    |   |     |
|-----|---------|----|----|----|----|-------|---|----|------|-----|----|-----|----|-----|-----|----|----|----|-----|----|-----|-----|-----|----|---|-----|
| 157 | LFS 993 | 2  | .5 | .5 | .2 | 2000  | — | 30 | 5000 | 2   | —  | 10  | 20 | —   | 100 | —  | 20 | 5  | 70  | 5  | 300 | —   | 50  | 30 | — | 150 |
| 158 | LFS 994 | 2  | .5 | .5 | .3 | 2000  | — | 30 | 500  | 2   | —  | 10  | 20 | —   | 100 | —  | 20 | 10 | 50  | 5  | 300 | —   | 50  | 30 | — | 150 |
| 174 | LFR 011 | 1  | .2 | .5 | .1 | 700   | — | 10 | 500  | 3   | —  | 20  | 10 | —   | 50  | —  | 20 | —  | 30  | 5  | 300 | —   | 30  | 20 | — | 100 |
| 394 | LFR 971 | 5  | 1  | 3  | .7 | 5000  | — | 50 | 1000 | 2   | 10 | 100 | 15 | 300 | 150 | —  | 30 | 10 | 50  | 10 | 700 | 150 | 150 | 50 | — | 200 |
| 563 | LFS 008 | 5  | 1  | 1  | .7 | 2000  | — | 30 | 1000 | 2   | 20 | 100 | 70 | 300 | 150 | 10 | 20 | 30 | 50  | 15 | 700 | 7.2 | 150 | 30 | — | 200 |
| 571 | LGI 760 | 2  | .5 | 1  | .2 | 1000  | — | 20 | 1500 | 3   | —  | 10  | 5  | —   | 100 | —  | 50 | 5  | 70  | 7  | 700 | —   | 50  | 30 | — | 200 |
| 572 | LGI 761 | 2  | .5 | 1  | .3 | 700   | — | 50 | 1500 | 2   | 5  | 50  | 5  | —   | 70  | —  | 50 | 5  | 70  | 7  | 700 | —   | 50  | 20 | — | 150 |
| 573 | LGI 762 | 2  | .5 | 1  | .3 | 700   | — | 20 | 1000 | 2   | 5  | 50  | 10 | —   | 100 | —  | 30 | 5  | 70  | 10 | 700 | —   | 50  | 50 | — | 200 |
| 577 | LGI 766 | 3  | 1  | 2  | .5 | 700   | — | 20 | 1000 | 1.5 | 7  | 70  | 15 | —   | 150 | —  | 30 | 5  | 50  | 10 | 700 | —   | 70  | 30 | — | 200 |
| 578 | LGI 767 | 5  | 1  | 2  | .5 | 1000  | — | 20 | 1000 | 2   | 10 | 100 | 15 | —   | 150 | —  | 50 | 7  | 70  | 15 | 700 | —   | 100 | 30 | — | 200 |
| 579 | LGI 768 | 2  | .7 | 2  | .2 | 700   | — | 20 | 1000 | 2   | 5  | 70  | 15 | —   | 100 | —  | 50 | 5  | 70  | 10 | 700 | —   | 50  | 30 | — | 200 |
| 616 | LFS 085 | 2  | .5 | 1  | .2 | 10000 | — | 50 | 1000 | 2   | —  | 50  | 20 | 200 | 50  | —  | 20 | —  | 50  | 5  | 200 | .7  | 150 | 10 | — | 150 |
| 617 | LFS 086 | .5 | .1 | 1  | .1 | 1500  | — | 20 | 200  | 3   | —  | 30  | 10 | 300 | 50  | —  | —  | —  | 10  | —  | 200 | 130 | 150 | 20 | — | 50  |
| 618 | LFS 087 | 3  | .5 | 1  | .2 | 2000  | — | 20 | 1000 | 3   | —  | 50  | 20 | 200 | 70  | —  | 30 | 10 | 50  | 7  | 500 | 18  | 100 | 30 | — | 200 |
| 619 | LFS 088 | 3  | .5 | .7 | .2 | 1500  | — | 50 | 1500 | 3   | —  | 50  | 70 | 300 | 70  | —  | 50 | 10 | 100 | 5  | 700 | 16  | 50  | 30 | — | 150 |

Table 1. Continued

| Field No.      | Lab No. | Percent |     |     |      |     |      |    |     |      |    |    |    |    |     | ppm |    |    |    |     |    |      |     |     |    |     |     |  |  |
|----------------|---------|---------|-----|-----|------|-----|------|----|-----|------|----|----|----|----|-----|-----|----|----|----|-----|----|------|-----|-----|----|-----|-----|--|--|
|                |         | Fe      | Mg  | Ca  | Ti   | Mn  | Ag   | B  | Ba  | Be   | Co | Cr | Cu | F  | La  | Mo  | Nb | Ni | Pb | Sc  | Sr | U    | V   | Y   | Zn | Zr  |     |  |  |
|                |         | .05     | .02 | .05 | .002 | 10  | .5   | 10 | 10  | 1    | 5  | 10 | 5  | 20 | 100 | 20  | 5  | 20 | 5  | 10  | 5  | 100  | .05 | 10  | 10 | 200 | 10  |  |  |
| McDONALD CREEK |         |         |     |     |      |     |      |    |     |      |    |    |    |    |     |     |    |    |    |     |    |      |     |     |    |     |     |  |  |
| 409            | LFS     | 075     | 3   | .5  | .5   | .2  | 3000 | .7 | 50  | 1000 | 3  | -  | 20 | 20 | 200 | 100 | -  | 20 | 10 | 150 | 7  | 500  | 2.5 | 100 | 20 | -   | 200 |  |  |
| 410            | LFS     | 076     | 3   | .5  | .7   | .2  | 2000 | -  | 30  | 1500 | 2  | -  | 30 | 10 | 100 | 100 | -  | 30 | 10 | 100 | 7  | 700  | 1.6 | 70  | 20 | -   | 200 |  |  |
| 411            | LFS     | 077     | 3   | .5  | .7   | .2  | 2000 | -  | 30  | 1500 | 3  | -  | 30 | 10 | 200 | 100 | -  | 50 | 7  | 150 | 7  | 700  | 3.2 | 70  | 30 | -   | 200 |  |  |
| WAPITI CREEK   |         |         |     |     |      |     |      |    |     |      |    |    |    |    |     |     |    |    |    |     |    |      |     |     |    |     |     |  |  |
| 176            | LFV     | 002     | 2   | .3  | .3   | .3  | 1000 | -  | 20  | 500  | 1  | -  | -  | 5  | -   | 50  | -  | 20 | 5  | 50  | 5  | 500  | -   | 30  | 20 | -   | 150 |  |  |
| 177            | LFV     | 003     | 5   | .5  | .7   | .5  | 1500 | -  | 30  | 700  | 2  | 10 | 10 | 15 | -   | 150 | -  | 50 | -  | 70  | 10 | 700  | -   | 100 | 50 | -   | 300 |  |  |
| 178            | LFV     | 004     | 5   | .5  | .7   | .2  | 1500 | -  | 30  | 700  | 2  | 10 | 15 | 10 | -   | 50  | -  | 20 | 10 | 70  | 10 | 700  | -   | 70  | 30 | -   | 100 |  |  |
| 179            | LFV     | 005     | 2   | .3  | .7   | .2  | 1000 | -  | 30  | 500  | 3  | -  | 15 | 10 | -   | 200 | -  | 20 | -  | 70  | 7  | 500  | -   | 50  | 30 | -   | 300 |  |  |
| 180            | LFV     | 006     | 3   | .7  | .7   | .5  | 1500 | -  | 50  | 500  | 3  | 15 | 20 | 20 | -   | 150 | -  | 30 | 5  | 70  | 15 | 700  | -   | 100 | 50 | -   | 200 |  |  |
| 181            | LFV     | 007     | 3   | .5  | .7   | .5  | 1500 | -  | 50  | 500  | 2  | 10 | 20 | 15 | -   | 70  | -  | 20 | -  | 50  | 10 | 700  | -   | 100 | 30 | -   | 200 |  |  |
|                | LFR     | 972     | 2   | .5  | 1.5  | 2   | 2000 | -  | 30  | 700  | 3  | -  | 10 | 15 | 300 | 150 | -  | 20 | -  | 50  | 10 | 500  | 4   | 50  | 30 | -   | 150 |  |  |
| 620            | LFS     | 089     | 5   | .5  | 1    | .3  |      | -  | 50  | 1000 | 2  | -  | 30 | 10 | 500 | 100 | -  | 30 | 10 | 70  | 10 | 1000 | 34  | 70  | 30 | -   | 200 |  |  |
| 621            | LFS     | 090     | 2   | .3  | .7   | .2  | 3000 | -  | 50  | 500  | 7  | -  | 20 | 20 | 600 | 100 | -  | 50 | 5  | 50  | 7  | 500  | 40  | 70  | 50 | -   | 100 |  |  |
| 622            | LFS     | 109     | 5   | .7  | 1    | .5  | 3000 | -  | 70  | 1000 | 5  | -  | 20 | 20 | 500 | 150 | -  | 20 | 10 | 50  | 10 | 500  | 88  | 150 | 50 | -   | 300 |  |  |
| PIKE'S FORK    |         |         |     |     |      |     |      |    |     |      |    |    |    |    |     |     |    |    |    |     |    |      |     |     |    |     |     |  |  |
| 80             | LFA     | 044     | 2   | .3  | .5   | .2  | 500  | .5 | 70  | 1000 | 3  | -  | 50 | 15 | -   | 70  | -  | -  | 10 | 50  | 7  | 300  | -   | 50  | 20 | 300 | 100 |  |  |
| 225            | LFA     | 052     | 2   | .5  | .5   | .2  | 1000 | 1  | 50  | 1000 | 3  | 10 | 50 | 15 | -   | 70  | -  | -  | 15 | 100 | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |
| 226            | LFA     | 053     | 3   | 1   | 1    | .2  | 1000 | 1  | 50  | 1000 | 3  | 10 | 50 | 10 | -   | 70  | -  | 20 | 15 | 50  | 10 | 300  | -   | 70  | 20 | -   | 100 |  |  |
| 227            | LFA     | 054     | 2   | .5  | .5   | .15 | 1500 | 1  | 50  | 1000 | 3  | 5  | 30 | 30 | -   | 70  | -  | 20 | 15 | 70  | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |
| 228            | LFA     | 055     | 2   | .5  | .7   | .2  | 700  | 1  | 50  | 1000 | 3  | 5  | 20 | 7  | -   | 100 | -  | 50 | 15 | 70  | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |
| 229            | LFA     | 056     | 3   | .5  | 1    | .2  | 500  | .5 | 30  | 1000 | 3  | 5  | 30 | 10 | -   | 100 | -  | 20 | 10 | 30  | 7  | 300  | -   | 50  | 30 | -   | 100 |  |  |
| 230            | LFA     | 057     | 2   | .5  | 1    | .3  | 700  | .7 | 30  | 700  | 3  | 5  | 20 | 20 | -   | 100 | -  | 20 | 15 | 50  | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |
| 231            | LFA     | 058     | 3   | .7  | 1    | .2  | 500  | 1  | 30  | 700  | 3  | 5  | 50 | 20 | -   | 100 | -  | 20 | 15 | 30  | 7  | 300  | -   | 50  | 30 | -   | 100 |  |  |
| 232            | LFA     | 059     | 3   | .7  | 1    | .2  | 500  | 1  | 30  | 700  | 3  | 5  | 50 | 15 | -   | 70  | -  | -  | 15 | 50  | 5  | 300  | -   | 50  | 20 | -   | 150 |  |  |
| 233            | LFA     | 060     | 2   | .3  | .5   | .5  | 500  | 1  | 50  | 700  | 3  | -  | 30 | 10 | -   | 50  | -  | -  | 10 | 50  | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |
| 234            | LFA     | 061     | 3   | .7  | 1    | .2  | 700  | .5 | 50  | 1000 | 3  | 5  | 30 | 10 | -   | 100 | -  | 20 | 10 | 20  | 7  | 300  | -   | 50  | 20 | -   | 200 |  |  |
| 235            | LFA     | 062     | 2   | .5  | .7   | .2  | 700  | .5 | 50  | 1000 | 3  | 5  | 30 | 10 | -   | 50  | -  | -  | 15 | 50  | 7  | 300  | -   | 50  | 20 | -   | 70  |  |  |
| 236            | LFA     | 063     | 2   | .5  | .7   | .2  | 500  | .5 | 30  | 1000 | 3  | 5  | 20 | 5  | -   | 100 | -  | 20 | 10 | 30  | 5  | 300  | -   | 50  | 20 | -   | 200 |  |  |
| 237            | LFA     | 064     | 2   | .3  | .7   | .1  | 500  | 1  | 50  | 1000 | 3  | -  | 10 | 5  | -   | 100 | -  | -  | 5  | 30  | 5  | 300  | -   | 30  | 20 | -   | 150 |  |  |
| 240            | LFA     | 065     | 2   | .3  | .7   | .15 | 500  | 1  | 100 | 1000 | 3  | 5  | 20 | 7  | -   | 100 | -  | -  | 5  | 30  | 5  | 300  | -   | 50  | -  | 30  | 150 |  |  |
| 241            | LFA     | 066     | 1.5 | .3  | .7   | .15 | 500  | -  | 70  | 1000 | 3  | -  | 10 | 5  | -   | 70  | -  | -  | 5  | 20  | 5  | 300  | -   | 30  | 20 | -   | 150 |  |  |
| 242            | LFA     | 067     | 2   | .3  | .7   | .15 | 500  | -  | 70  | 1000 | 3  | -  | 20 | 7  | -   | 100 | -  | -  | 5  | 30  | 5  | 300  | -   | 50  | 20 | -   | 100 |  |  |

Table 2.

Analyses of rock samples from the Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho. All samples were analyzed by six-step semiquantitative spectrographic analyses. Numbers immediately below the element headings show minimum limits of determination. The symbol — indicates the element was detected but below the determination limit, or was looked for but not detected. The following elements and their minimum limits of determination, shown in ppm in parentheses, were searched for but determinable concentrations were not found: As (200), Au (10), Bi (10), Cd (20), Sb (100), Sn (10), W (50), and Zn (200). Exceptions were samples 238 and 766, which contained 500 and 2000 ppm Zn respectively. Analyzed by E.F. Cooley.

Table 2.--Continued

| Field No.                                   | Lab No.  | Percent |     |     |      | Fe   | Mn  | Ag | B    | Ba  | Be | Co  | Cr | Cu  | La  | Mo ppm | Nb | Ni | Pb  | Sc | Sr   | V   | Y  | Zr  |
|---|----------|---------|-----|-----|------|------|-----|----|------|-----|----|-----|----|-----|-----|--------|----|----|-----|----|------|-----|----|-----|
|   |          | Fe      | Mg  | Ca  | Ti   |      |     |    |      |     |    |     |    |     |     |        |    |    |     |    |      |     |    |     |
|   |          | .05     | .02 | .05 | .002 | 10   | .5  | 10 | 10   | 10  | 1  | 5   | 10 | 5   | 20  | 5      | 20 | 5  | 10  | 5  | 100  | 10  | 10 | 10  |
| BIOTITE GRANODIORITE OF THE IDAHO BATHOLITH |          |         |     |     |      |      |     |    |      |     |    |     |    |     |     |        |    |    |     |    |      |     |    |     |
| 02  | LFS 260  | 1.5     | .1  | 1   | .15  | 700  | —   | 10 | 1000 | —   | —  | —   | —  | 15  | 30  | —      | —  | —  | 50  | —  | 700  | 20  | —  | 150 |
| 05  | LFS 261  | 1.5     | .1  | 1   | .15  | 700  | —   | 10 | 1000 | —   | —  | —   | —  | —   | 100 | —      | —  | —  | 50  | —  | 700  | 10  | —  | 150 |
| 30  | LFS 268  | 5       | 2   | 5   | .70  | 3000 | —   | 20 | 1000 | —   | 30 | 200 | 70 | 70  | 100 | —      | 30 | 30 | 50  | —  | 1000 | 200 | 50 | 200 |
| 79  | LFA 138  | 2       | .2  | .2  | .2   | 300  | —   | 20 | 2000 | 3   | —  | —   | —  | —   | 70  | —      | —  | —  | 20  | 5  | 700  | 20  | —  | 100 |
| 82  | LFS 275  | 1       | .1  | 1   | .1   | 700  | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 50  | —      | 20 | —  | 70  | —  | 700  | 30  | —  | 100 |
| 797-15-A                                    | LFS 285  | 5       | 1.5 | 2   | .7   | 1000 | —   | 10 | 700  | 1   | 20 | —   | —  | —   | 100 | —      | 20 | —  | 30  | 15 | 1000 | 100 | 30 | 300 |
| 797-15-B                                    | LFS 286  | 2       | 5   | 2   | .5   | 700  | —   | 10 | 1000 | 1   | —  | —   | —  | —   | 100 | —      | —  | —  | 30  | 5  | 1000 | 70  | —  | 200 |
| 797-16-F                                    | LFS 283  | 1       | .2  | 1   | .1   | 700  | —   | 10 | 1000 | 1   | 10 | —   | —  | —   | 70  | —      | —  | —  | 30  | —  | 1000 | 10  | —  | 100 |
| 336   | LFS 118  | 3       | .5  | 3   | .03  | 1500 | —   | 20 | 1500 | 2   | —  | —   | —  | —   | 70  | —      | 20 | —  | 70  | —  | 2000 | 30  | —  | 200 |
| 338   | LFS 120  | .7      | .2  | .5  | .03  | 500  | —   | 10 | 1000 | 1.5 | —  | —   | —  | —   | 30  | —      | —  | —  | 50  | —  | 1000 | —   | —  | 150 |
| 342   | LFS 122  | 1       | .1  | .5  | .05  | 1000 | .5  | 10 | 700  | 2   | —  | —   | —  | —   | 20  | —      | —  | —  | 100 | —  | 300  | —   | 10 | 50  |
| 343   | LFS 123  | 1       | .15 | .5  | .05  | 500  | 1.5 | 10 | 1000 | 2   | —  | —   | —  | —   | —   | —      | —  | —  | 70  | —  | 700  | —   | —  | 100 |
| 347   | LFS 127  | 2       | .5  | 1.5 | .2   | 1000 | 1   | 10 | 1500 | 2   | —  | —   | —  | —   | 70  | —      | —  | —  | 70  | 5  | 2000 | 20  | 10 | 150 |
| 393   | LFS 132  | 5       | .7  | 5   | .5   | 1500 | 1   | 10 | 1000 | 1   | —  | —   | —  | 50  | 150 | —      | 20 | —  | 70  | 10 | 1500 | 100 | 30 | 300 |
| 503   | LFS 134  | 5       | 1   | 3   | .5   | 1500 | 10  | 10 | 1000 | 2   | —  | —   | —  | 10  | 100 | —      | 30 | —  | 50  | —  | 1500 | 100 | —  | 200 |
| 542   | LFS 146  | 1.5     | .3  | 1.5 | .2   | 700  | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 70  | —      | —  | —  | 50  | 5  | 1500 | 20  | —  | 150 |
| 546   | LFS 147  | 2       | .3  | .2  | .2   | 1500 | 7   | 20 | 1000 | 2   | —  | —   | —  | 50  | 50  | —      | 50 | 10 | 100 | 5  | 1000 | 30  | —  | 200 |
| 814   | L GK 248 | 3       | .5  | 2   | .2   | 1500 | —   | 10 | 2000 | 2   | —  | —   | —  | —   | 100 | —      | 50 | —  | 100 | 7  | 1000 | 20  | 20 | 150 |
| 822   | L GK 251 | 1       | .2  | 1   | .2   | 1000 | —   | 20 | 2000 | 2   | —  | —   | —  | —   | 70  | —      | —  | —  | 70  | —  | 700  | 10  | 10 | 150 |
| 823   | L GK 252 | 1.5     | .2  | 1   | .2   | 700  | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 50  | —      | 50 | —  | 50  | 5  | 700  | 20  | 30 | 150 |
| 824   | L GK 253 | .5      | .1  | 1   | .03  | 700  | —   | 10 | 1500 | 1   | —  | —   | —  | —   | —   | —      | —  | —  | 100 | —  | 1000 | —   | —  | 50  |
| 827   | L GK 255 | 1       | .2  | 1   | .07  | 300  | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 150 | —      | —  | —  | 50  | —  | 700  | 10  | —  | 100 |
| 836   | L GK 259 | 2       | .5  | .7  | .2   | 300  | —   | 10 | 1000 | 2   | —  | —   | —  | 5   | 100 | 70     | —  | —  | 50  | —  | 500  | 30  | —  | 100 |
| 841   | L GK 260 | 1       | .3  | .1  | .2   | 500  | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 50  | —      | —  | —  | 70  | 5  | 500  | 30  | 20 | 100 |
| 843   | L GK 262 | 2       | .5  | 2   | .2   | 200  | —   | 10 | 3000 | 1.5 | —  | —   | —  | —   | 70  | —      | —  | —  | 100 | 5  | 1500 | 20  | 10 | 100 |
| 846   | L GK 263 | 2       | .7  | 2   | .7   | 500  | —   | 10 | 2000 | 2   | —  | —   | —  | —   | 100 | —      | 20 | —  | 50  | 10 | 1000 | 50  | 20 | 200 |
| 854   | L GK 271 | 2       | .3  | 1   | .15  | 700  | —   | 10 | 2000 | 1.5 | —  | —   | —  | —   | 100 | —      | —  | —  | 50  | —  | 1000 | 20  | —  | 100 |
| 855   | L GK 272 | 2       | .5  | 3   | .2   | 700  | —   | 10 | 1500 | 2   | —  | —   | —  | —   | 50  | —      | —  | —  | 50  | 5  | 1000 | 20  | —  | 150 |
| 857   | L GK 273 | 2       | .3  | 1   | .2   | 500  | —   | 10 | 2000 | 1   | —  | —   | —  | —   | 70  | —      | —  | —  | 50  | —  | 1000 | 10  | —  | 150 |
| 862   | L GK 278 | 1.5     | .5  | 2   | .2   | 700  | —   | 10 | 1000 | 3   | —  | —   | —  | —   | 50  | —      | 20 | —  | 70  | 5  | 1000 | 20  | 10 | 150 |
| 172   | LFS 255  | 1.5     | .2  | .7  | .1   | 1000 | —   | 10 | 1000 | 2   | —  | —   | —  | —   | 50  | —      | 20 | —  | 50  | 5  | 700  | —   | —  | 150 |
| 88  | LFA 140  | 1.5     | .2  | 1   | .07  | 500  | —   | 30 | 700  | 5   | —  | —   | —  | —   | 70  | —      | —  | —  | 15  | 5  | 300  | 10  | —  | 70  |
| 761   | L GK 285 | 2       | .7  | 2   | .3   | 1000 | —   | 10 | 700  | 2   | —  | —   | —  | —   | 50  | —      | —  | —  | 20  | 5  | 1000 | 50  | 20 | 20  |
| 771   | L GK 291 | 3       | 1.5 | 2   | .5   | 1000 | .5  | 10 | 1500 | 1.5 | 10 | 50  | —  | —   | 70  | —      | 20 | 5  | 70  | 10 | 700  | 100 | 20 | 150 |
| 205   | LFS 156  | 2       | .3  | 1   | .2   | 500  | 1.5 | 10 | 3000 | 2   | —  | —   | —  | 200 | 100 | —      | 20 | —  | —   | —  | —    | —   | —  | —   |
| 853   | L GK 270 | 2       | .5  | 3   | .15  | 1000 | —   | 10 | 5000 | 1   | —  | —   | —  | —   | 50  | —      | —  | —  | 50  | 5  | 2000 | 20  | 10 | 100 |
| 826   | L GK 254 | .5      | .1  | 1   | .03  | 700  | —   | 10 | 1500 | 1   | —  | —   | —  | —   | —   | —      | —  | —  | 50  | 5  | 1000 | 10  | —  | 100 |

Table 2.--Continued

| Field No.                | Lab No.  | Percent |     |     |      |      | Mn | Ag | B    | Ba  | Be | Co  | Cr | Cu | La  | Mo ppm | Nb  | Ni | Pb  | Sc | Sr   | V   | Y  | Zr  |
|--------------------------|----------|---------|-----|-----|------|------|----|----|------|-----|----|-----|----|----|-----|--------|-----|----|-----|----|------|-----|----|-----|
|                          |          | Fe      | Mg  | Ca  | Ti   |      |    |    |      |     |    |     |    |    |     |        |     |    |     |    |      |     |    |     |
|                          |          | .05     | .02 | .05 | .002 | 10   | .5 | 10 | 10   | 1   | 5  | 10  | 10 | 5  | 20  | 5      | 20  | 5  | 10  | 5  | 100  | 10  | 10 | 10  |
| LEUCOCRATIC MONZOGRANITE |          |         |     |     |      |      |    |    |      |     |    |     |    |    |     |        |     |    |     |    |      |     |    |     |
| 15                       | LFS 263  | 1.5     | .2  | 1   | .15  | 1000 | —  | 20 | 1000 | 2   | —  | —   | —  | —  | 70  | —      | 20  | —  | 100 | —  | 1500 | —   | 10 | 200 |
| 16                       | LFS 264  | 1       | .15 | .7  | .07  | 1500 | —  | 10 | 1000 | 2   | —  | —   | —  | —  | 20  | —      | 20  | —  | 100 | —  | 500  | —   | 10 | 100 |
| 17                       | LFS 265  | 1       | .15 | .7  | .07  | 500  | —  | 10 | 700  | 1.5 | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 500  | —   | —  | 100 |
| 51                       | LFS 269  | .5      | .1  | .2  | .03  | 200  | —  | 10 | 700  | —   | —  | —   | —  | —  | —   | —      | —   | —  | 20  | —  | 500  | —   | —  | 50  |
| 76                       | LFA 137  | 1       | .05 | .2  | .05  | 200  | —  | 10 | 500  | 2   | —  | —   | —  | —  | 50  | —      | —   | —  | —   | —  | 200  | —   | —  | 50  |
| 337                      | LFS 119  | .7      | .12 | .5  | .2   | 500  | —  | 10 | 200  | 1.5 | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 100  | —   | —  | 50  |
| 358                      | LFS 128  | 2       | .2  | .5  | .2   | 1000 | .5 | 50 | 1000 | 2   | —  | —   | —  | —  | —   | —      | —   | —  | 100 | 5  | 500  | 20  | —  | 200 |
| 359                      | LFS 129  | 1       | .2  | .5  | .1   | 1000 | —  | 10 | 700  | 2   | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 500  | —   | —  | 100 |
| 414                      | LFS 171  | .5      | .05 | .5  | .05  | 200  | —  | 10 | 1000 | 2   | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 700  | —   | —  | 100 |
| 396                      | LFS 133  | 2       | .3  | 1   | .2   | 300  | .5 | 10 | 1000 | 1.5 | —  | —   | —  | —  | —   | —      | 20  | —  | 50  | —  | 700  | —   | 15 | 20  |
| 504                      | LFS 135  | 1       | .1  | 1   | .15  | 500  | 10 | 10 | 1500 | 2   | —  | —   | —  | —  | 50  | —      | 20  | —  | 50  | —  | 1000 | —   | —  | 100 |
| 505                      | LFS 136  | .7      | .07 | .2  | .03  | 200  | 3  | 20 | 700  | 2   | —  | —   | —  | —  | 50  | —      | —   | —  | 70  | —  | 200  | —   | —  | 100 |
| 507                      | LFS 138  | .7      | .05 | .5  | .05  | 500  | 7  | 10 | 1000 | 2   | —  | —   | —  | —  | 20  | —      | —   | —  | 50  | —  | 1000 | —   | —  | 50  |
| 511                      | LFS 139  | .7      | .02 | .7  | .03  | 1000 | —  | 10 | 300  | 3   | —  | —   | —  | —  | 50  | —      | —   | —  | 50  | —  | 200  | —   | —  | 150 |
| 518                      | LFS 140  | 1       | .03 | .5  | .05  | 1000 | —  | 10 | 700  | 2   | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 300  | —   | —  | 100 |
| 800                      | L GK 237 | .5      | .2  | .5  | .03  | 200  | —  | 10 | 700  | 1.5 | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 200  | —   | —  | 50  |
| 809                      | L GK 246 | 1       | .2  | 1   | .1   | 500  | —  | 10 | 1500 | 2   | —  | —   | —  | —  | 30  | —      | 20  | —  | 70  | —  | 700  | —   | —  | 100 |
| 147                      | LFS 187  | .5      | .02 | .5  | .02  | 200  | —  | 10 | 1000 | 2   | —  | —   | —  | —  | —   | —      | —   | —  | 50  | —  | 500  | —   | —  | 50  |
| 444                      | LFS 180  | 1       | —   | .5  | .02  | 700  | —  | 10 | 150  | 2   | —  | —   | —  | —  | —   | —      | 20  | —  | 50  | —  | —    | —   | 20 | 50  |
| 524                      | LFS 143  | 7       | 1.5 | .5  | .7   | 5000 | .5 | 10 | 700  | 1.5 | 20 | 100 | —  | —  | 70  | —      | 30  | 20 | 20  | 20 | 500  | 100 | —  | 200 |
| 278                      | L GK 304 | 2       | .5  | 3   | .5   | 700  | —  | 10 | 1000 | 2   | —  | —   | —  | —  | 150 | —      | 20  | —  | 70  | 5  | 1000 | 70  | 30 | 500 |
| 281                      | LFS 182  | 1.5     | 1.5 | .5  | .07  | 700  | —  | 10 | 700  | 3   | —  | —   | —  | —  | —   | —      | 20  | —  | 70  | —  | 200  | —   | 10 | 100 |
| 129                      | LFA 142  | .7      | .1  | .05 | .05  | 200  | 1  | 10 | 700  | 2   | —  | —   | —  | 20 | 50  | —      | —   | —  | 10  | —  | 300  | —   | —  | 100 |
| 135                      | LFA 143  | 1.5     | .1  | 1   | .07  | 500  | —  | 20 | 1500 | 2   | —  | —   | —  | —  | 50  | —      | 30  | —  | 50  | —  | 500  | —   | 20 | 100 |
| 130                      | LFS 251  | 1.5     | .1  | .7  | .1   | 1000 | —  | 10 | 1500 | 1   | —  | —   | —  | —  | 50  | —      | 20  | —  | 70  | —  | 700  | —   | —  | 100 |
| 211                      | LFS 160  | 1.5     | .1  | .7  | .1   | 700  | —  | 10 | 700  | 2   | —  | —   | —  | —  | 50  | —      | 20  | —  | 70  | —  | 500  | —   | 20 | 150 |
| 214                      | LFS 163  | 1       | .2  | .5  | .1   | 700  | —  | 10 | 1000 | 2   | —  | —   | —  | —  | 50  | —      | 20  | —  | 70  | —  | 700  | —   | —  | 70  |
| 215                      | LFS 164  | .7      | .1  | .1  | .1   | 1500 | —  | 10 | 700  | 1   | —  | —   | —  | —  | —   | —      | —   | —  | 70  | —  | 200  | —   | —  | 50  |
| 412                      | LFS 178  | 1.5     | .2  | .7  | .1   | 700  | —  | 10 | 3000 | 2   | —  | —   | —  | —  | 50  | —      | —   | —  | 50  | —  | 1000 | —   | —  | 150 |
| 443                      | LFS 179  | .2      | .05 | .5  | .03  | 700  | —  | 10 | 700  | 3   | —  | —   | —  | —  | 30  | —      | 20  | —  | 100 | —  | 200  | —   | 20 | 100 |
| 436                      | LFS 173  | 2       | .3  | 1   | .2   | 1000 | —  | 10 | 2000 | 1   | —  | —   | —  | —  | 50  | —      | 50  | —  | 50  | 5  | 1500 | 15  | 20 | 150 |
| 437                      | LFS 174  | .7      | .2  | 1   | .15  | 1000 | —  | 10 | 3000 | 1   | —  | —   | —  | —  | 50  | —      | —   | —  | 50  | —  | 2000 | —   | —  | 200 |
| 213                      | LFS 162  | 2       | .3  | .7  | .2   | 1000 | —  | 10 | 1500 | 2   | —  | —   | —  | —  | 50  | —      | 30  | —  | 70  | —  | 1000 | 10  | 10 | 150 |
| 218                      | LFS 165  | .7      | .1  | —   | .02  | 700  | —  | 20 | 500  | 3   | —  | —   | —  | —  | —   | 20     | 50  | —  | 70  | —  | —    | —   | 20 | 150 |
| 244                      | LFS 170  | 2       | .5  | .1  | .2   | 300  | 20 | 20 | 700  | 2   | —  | 50  | 20 | —  | —   | 2000   | 20  | —  | 200 | 5  | —    | 50  | —  | 150 |
| 830                      | L GK 258 | 2.7     | .07 | .5  | .03  | 200  | —  | —  | 700  | 1.5 | —  | —   | —  | —  | 50  | —      | —   | —  | 70  | —  | 500  | —   | —  | 100 |
| 626                      | L GK 294 | .5      | .15 | .05 | .03  | 300  | —  | 20 | 500  | 1.5 | —  | —   | —  | —  | —   | —      | —   | —  | 50  | —  | 200  | 20  | —  | 50  |
| 623                      | L GK 293 | 1       | .3  | .1  | .1   | 500  | —  | 10 | 50   | 1   | —  | 50  | —  | —  | —   | —      | —   | 20 | 50  | —  | 200  | 20  | —  | 50  |
| 625                      | L GK 296 | .5      | .1  | .5  | .02  | 1000 | —  | 10 | 200  | 2   | —  | —   | —  | —  | 70  | —      | 100 | —  | 100 | 15 | —    | 10  | —  | 50  |
| 282                      | LFS 183  | .7      | .05 | .3  | .03  | 300  | —  | 10 | 700  | 2   | —  | —   | —  | —  | —   | —      | 20  | —  | 100 | —  | 200  | —   | —  | 100 |
| 274                      | LFS 185  | 1.5     | .15 | .2  | .1   | 700  | —  | 10 | 1000 | 1.5 | —  | —   | —  | —  | —   | —      | —   | —  | 50  | —  | 1000 | —   | —  | 70  |

Table 2.--Continued

| Field No.                               | Lab No. | Percent |     |     |      |      |    |    |      |     |    | ppm |     |     |    |    |     |    |    |      |     | V  | Y   | Zr |
|---|---------|---------|-----|-----|------|------|----|----|------|-----|----|-----|-----|-----|----|----|-----|----|----|------|-----|----|-----|----|
|   |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag | B  | Ba   | Be  | Co | Cr  | Cu  | La  | Mo | Nb | Ni  | Pb | Sc | Sr   |     |    |     |    |
|   |         | .05     | .02 | .05 | .002 | 10   | .5 | 10 | 10   | 1   | 5  | 10  | 5   | 20  | 5  | 20 | 5   | 10 | 5  | 100  | 10  | 10 | 10  |    |
| BIOTITE--HORNBLende GRANODIORITE        |         |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |     |    |    |      |     |    |     |    |
| 306                                     | LFS     | 280     | 2   | 2   | .5   | 1500 | —  | 10 | 1000 | 1   | 20 | 100 | 50  | 100 | —  | 20 | 20  | 50 | 15 | 700  | 100 | 30 | 100 |    |
| 312                                     | LFS     | 111     | 5   | 1.5 | .7   | 1500 | —  | 20 | 1000 | 1.5 | 20 | 100 | 10  | 150 | —  | 50 | 30  | 50 | 20 | 1000 | 150 | 30 | 100 |    |
| 314                                     | LFS     | 113     | 5   | 1.5 | .5   | 1500 | —  | 20 | 1000 | 1   | 20 | 150 | —   | 100 | —  | 20 | 20  | 50 | 15 | 700  | 150 | 20 | 100 |    |
| 550                                     | LFS     | 149     | 5   | 1.5 | .5   | 1500 | —  | 20 | 1000 | 1   | 20 | 100 | —   | 100 | —  | —  | 30  | 20 | 15 | 700  | 100 | —  | 150 |    |
| 290                                     | LFS     | 250     | 5   | 1   | .3   | 1000 | —  | 20 | 1000 | 1   | 20 | 100 | —   | 70  | —  | 20 | 20  | 50 | 10 | 500  | 100 | 10 | 150 |    |
| 553                                     | LFS     | 152     | 5   | 1.5 | .5   | 1500 | —  | 10 | 1000 | 1   | 20 | 100 | —   | 200 | —  | 20 | 20  | 30 | 15 | 1000 | 100 | —  | 150 |    |
| 561                                     | LFS     | 153     | 10  | 2   | 1    | 2000 | 1  | 10 | 1000 | 1   | 30 | 100 | 20  | 100 | —  | 50 | 20  | 20 | 20 | 1000 | 150 | —  | 200 |    |
| 564                                     | LFS     | 284     | 5   | 2   | .7   | 2000 | —  | 30 | 1000 | —   | 50 | 70  | 50  | 100 | —  | 20 | 20  | 50 | 20 | 1000 | 150 | 50 | 200 |    |
| 806                                     | LKG     | 243     | 7   | 2   | .3   | 2000 | —  | 10 | 2000 | 1   | 20 | 200 | 15  | 150 | —  | 20 | 30  | 50 | 20 | 1000 | 100 | 50 | 200 |    |
| 807                                     | LKG     | 244     | 7   | 2   | 1    | 3000 | —  | 15 | 2000 | 1   | 30 | 50  | 5   | 200 | —  | 20 | 5   | 30 | 30 | 3000 | 150 | 50 | 200 |    |
| 815                                     | LKG     | 249     | 7   | 2   | .7   | 2000 | —  | 10 | 2000 | 2   | 20 | 200 | 50  | 70  | —  | 30 | 20  | 50 | 30 | 1000 | 200 | 30 | 200 |    |
| 828                                     | LKG     | 256     | 5   | 1.5 | .5   | 1000 | —  | 10 | 1500 | 1.5 | 10 | 100 | 20  | 100 | —  | 20 | 20  | 50 | 20 | 1000 | 150 | 30 | 200 |    |
| 849                                     | LKG     | 266     | 3   | 1.5 | .3   | 1000 | —  | 10 | 1000 | 1   | 15 | 70  | 10  | 100 | —  | 20 | 10  | 20 | 15 | 700  | 100 | 20 | 100 |    |
| 850                                     | LKG     | 267     | 3   | 2   | 1.5  | 1000 | 3  | 1  | 1000 | 1   | 15 | 100 | 50  | 100 | —  | 20 | 10  | —  | —  | —    | —   | —  | —   |    |
| 159                                     | LFS     | 159     | 5   | 1.5 | .5   | 1000 | —  | 10 | 1000 | 1   | 15 | 50  | —   | 100 | —  | 20 | 10  | 50 | 10 | 700  | 50  | 15 | 150 |    |
| 169                                     | LFS     | 253     | 10  | 1.5 | .5   | 2000 | —  | 20 | 1000 | 1   | 30 | 50  | 20  | 150 | —  | 20 | 10  | 50 | 20 | 1000 | 200 | 30 | 200 |    |
| 170                                     | LFS     | 254     | 5   | 1.5 | .5   | 1000 | —  | 10 | 1000 | 1   | 20 | 100 | —   | 150 | —  | 20 | 15  | 50 | 15 | 1000 | 150 | 20 | 150 |    |
| 171                                     | LFS     | 259     | 7   | 2   | 1    | 1500 | —  | 10 | 500  | —   | 50 | 200 | 50  | 50  | —  | —  | 50  | 20 | 20 | 300  | 200 | 20 | 100 |    |
| 768                                     | LKG     | 768     | 10  | 3   | .1   | 2000 | —  | 20 | 3000 | 1   | 30 | 150 | 100 | 200 | —  | 20 | 50  | 50 | 50 | 1000 | 200 | 50 | 500 |    |
| BIOTITE--HORNBLende QUARTZ MONZODIORITE |         |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |     |    |    |      |     |    |     |    |
| 305                                     | LFS     | 305     | 7   | 3   | 1    | 2000 | 10 | 15 | 1000 | 1   | 50 | 150 | 100 | 150 | —  | 30 | 30  | 30 | 30 | 1000 | 200 | 50 | 150 |    |
| 313                                     | LFS     | 112     | 10  | 2   | 1    | 2000 | —  | 50 | 1000 | 1   | 50 | 100 | 70  | 150 | —  | 30 | 50  | 50 | 30 | 1500 | 200 | 50 | 200 |    |
| 564                                     | LFS     | 154     | 10  | 2   | .7   | 1500 | —  | 20 | 1000 | 1   | 30 | 70  | 50  | 100 | —  | 20 | 20  | 20 | 20 | 1000 | 150 | —  | 150 |    |
| 829                                     | LKG     | 257     | 7   | 5   | .7   | 1500 | —  | 10 | 1000 | 1   | 30 | 500 | 10  | 100 | —  | 20 | 50  | 50 | 30 | 1000 | 200 | 50 | 200 |    |
| 848                                     | LKG     | 265     | 7   | 3   | 1    | 2000 | —  | 10 | 2000 | 1   | 30 | 150 | 70  | 100 | —  | 20 | 20  | 50 | 30 | 2000 | 200 | 50 | 150 |    |
| 206                                     |         |         | 5   | 1.5 | .5   | 1500 | —  | 20 | 1000 | 1   | 20 | 100 | —   | 70  | —  | 20 | 20  | 20 | 15 | 1000 | 150 | 20 | 150 |    |
| 551                                     | LFS     | 150     | 10  | 2   | 1    | 5000 | —  | 10 | 1500 | —   | 30 | 70  | 20  | 150 | —  | 50 | 5   | 50 | 30 | 1500 | 200 | —  | 200 |    |
| 552                                     | LFS     | 151     | 10  | 2   | .7   | 3000 | —  | 15 | 1000 | —   | 30 | 20  | 20  | 150 | —  | 20 | 5   | 50 | 20 | 1000 | 200 | —  | 200 |    |
| 355                                     | LFS     | 281     | 7   | 2   | .5   | 1500 | —  | 10 | 500  | —   | 50 | 500 | 70  | 70  | —  | 20 | 150 | 20 | 20 | 500  | 150 | 30 | 200 |    |
| 859                                     | LKG     | 275     | 7   | 2   | 1    | 2000 | —  | 10 | 1500 | 2   | 30 | 200 | 10  | 150 | —  | 30 | 50  | 70 | 30 | 1000 | 200 | 30 | 300 |    |
| 808                                     | LFS     | 245     | 10  | 2   | 1    | 2000 | —  | 20 | 3000 | —   | 30 | 20  | 50  | 200 | —  | 20 | —   | 50 | 30 | 3000 | 150 | 50 | 100 |    |
| 810                                     | LKG     | 247     | 10  | 2   | 1    | 2000 | —  | 15 | 3000 | —   | 30 | 200 | 70  | 200 | —  | 20 | 100 | 30 | 30 | 1000 | 200 | 30 | 300 |    |



Table 2.--Continued

| Field No.                              | Lab No. | Percent |     |     |      |      |     |    |      |     |    |     |    | ppm |    |    |    |      |    |      |     |     |    |     |    |
|--|---------|---------|-----|-----|------|------|-----|----|------|-----|----|-----|----|-----|----|----|----|------|----|------|-----|-----|----|-----|----|
|  |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag  | B  | Ba   | Be  | Co | Cr  | Cu | La  | Mo | Nb | Ni | Pb   | Sc | Sr   | V   | Y   | Zr |     |    |
|  |         | .05     | .02 | .05 | .002 | 10   | .5  | 10 | 10   | 1   | 5  | 10  | 5  | 5   | 20 | 5  | 20 | 5    | 10 | 5    | 100 | .05 | 10 | 10  | 10 |
| MONZOGRAHITE OF THE SAWTOOTH BATHOLITH |         |         |     |     |      |      |     |    |      |     |    |     |    |     |    |    |    |      |    |      |     |     |    |     |    |
| 23                                     | LFS 267 | 1.5     | .3  | .3  | .2   | 1000 | —   | 10 | 1000 | 2   | —  | —   | —  | 100 | —  | 20 | —  | 70   | —  | 2000 | 50  | 20  | —  | 150 |    |
| 57                                     | LFS 270 | 1.5     | .2  | .1  | .2   | 1500 | .7  | 10 | 500  | 5   | —  | —   | —  | 100 | —  | 30 | —  | 100  | 5  | 200  | 50  | 20  | —  | 200 |    |
| 73                                     | LFS 272 | 1       | .15 | .5  | .1   | 1500 | —   | 10 | 150  | 5   | —  | —   | —  | 50  | —  | 30 | —  | 100  | —  | —    | —   | 10  | —  | 200 |    |
| 77                                     | LFS 273 | 1       | .1  | .5  | .07  | 700  | —   | 10 | 1000 | 1   | —  | —   | 10 | —   | —  | 20 | —  | 30   | —  | 500  | —   | —   | —  | 100 |    |
| 302                                    | LFS 277 | 1.5     | .3  | .1  | .2   | 1000 | —   | 10 | 1000 | 3   | —  | —   | —  | 100 | —  | 20 | —  | 70   | 5  | 500  | 50  | 30  | —  | 150 |    |
| 320                                    | LFS 114 | 2       | .5  | .1  | .3   | 1500 | —   | 10 | 700  | —   | 10 | 20  | —  | 100 | —  | 20 | 5  | 100  | 5  | 500  | 50  | 30  | —  | 100 |    |
| 326                                    | LFS 115 | .2      | .02 | .05 | .01  | 100  | —   | 10 | 500  | —   | —  | —   | —  | —   | —  | —  | —  | 50   | —  | 100  | —   | —   | —  | —   |    |
| 327                                    | LFS 116 | 1       | .3  | .7  | .2   | 1500 | —   | 10 | 700  | 2   | —  | —   | —  | —   | —  | 70 | —  | 100  | —  | 700  | —   | —   | —  | 100 |    |
| 368                                    | LFS 130 | 2       | .2  | .5  | .15  | 1000 | .5  | —  | 1000 | 2   | —  | —   | 30 | 100 | —  | —  | —  | 70   | —  | 700  | 20  | —   | —  | 150 |    |
| 506                                    | LFS 137 | 2       | .3  | .7  | .15  | 1000 | 1.5 | 20 | 1000 | 3   | —  | —   | —  | 50  | —  | 30 | —  | 50   | —  | 1000 | 10  | —   | —  | 150 |    |
| 529                                    | LFS 144 | 2       | .3  | .7  | .3   | 700  | 20  | 10 | 700  | 2   | —  | —   | 15 | 100 | —  | 30 | 50 | 70   | 5  | 500  | 50  | —   | —  | 200 |    |
| 541A                                   | LFS 283 | 2       | .7  | .7  | .2   | 1000 | 2   | 10 | 700  | 2   | 15 | 100 | 10 | 70  | —  | 20 | 20 | 30   | 10 | 500  | 50  | 10  | —  | 200 |    |
| 549                                    | LFS 148 | 1       | .2  | .2  | .1   | 200  | 1   | 10 | 200  | 3   | —  | —   | 10 | 30  | —  | 50 | —  | 100  | 5  | 200  | 20  | 20  | —  | 100 |    |
| 801                                    | LGK 238 | 2       | .5  | 1.5 | .3   | 700  | —   | 10 | 1500 | 5   | —  | —   | 5  | 300 | 5  | 30 | —  | 70   | 10 | 700  | 50  | 50  | —  | 300 |    |
| 802                                    | LGK 239 | 1.5     | .3  | .1  | .15  | 700  | —   | 10 | 500  | 5   | —  | —   | 5  | 70  | —  | 30 | —  | 70   | 5  | 300  | 20  | 20  | —  | 200 |    |
| 842                                    | LGK 261 | .7      | .2  | .5  | .07  | 200  | —   | 10 | 700  | 2   | —  | —   | —  | —   | —  | —  | —  | 70   | —  | 500  | 20  | —   | —  | 50  |    |
| 209                                    | LFS 158 | 1.5     | .2  | .7  | .15  | 1000 | 1   | 10 | 700  | 2   | —  | —   | —  | 50  | —  | 20 | —  | 70   | 5  | 200  | 20  | —   | —  | 150 |    |
| 210                                    | LFS 159 | 1.5     | .2  | .7  | .15  | 1000 | —   | 10 | 700  | 3   | —  | —   | —  | 50  | —  | 20 | —  | 70   | 5  | 200  | 20  | 50  | —  | 150 |    |
| 220                                    | LFS 166 | 1.5     | .2  | .5  | .15  | 700  | —   | 10 | 700  | 5   | —  | —   | —  | 50  | —  | 20 | —  | 50   | —  | 300  | 10  | 10  | —  | 100 |    |
| 221                                    | LFS 167 | 1.5     | .2  | .7  | .2   | 700  | —   | 10 | 500  | 5   | —  | —   | —  | 50  | —  | 20 | —  | 50   | —  | 300  | 20  | 15  | —  | 150 |    |
| 222                                    | LFS 168 | 1.5     | .3  | .5  | .15  | 700  | —   | 10 | 700  | 3   | —  | —   | —  | 50  | —  | —  | —  | 50   | —  | 300  | 20  | 10  | —  | 100 |    |
| 760                                    | LGK 284 | 2       | .3  | .3  | .3   | 700  | .5  | 20 | 1500 | 1   | —  | —   | —  | 50  | —  | 20 | —  | 70   | 5  | 700  | 20  | 20  | —  | 150 |    |
| 766                                    | LGK 286 | 1.5     | .3  | .3  | .2   | 1000 | 1   | 10 | 3000 | 1   | —  | —   | —  | 50  | —  | —  | —  | 1000 | 5  | 700  | 20  | 10  | —  | 100 |    |
| 767                                    | LGK 287 | 1       | .1  | .5  | .1   | 700  | —   | 10 | 1000 | 1.5 | —  | —   | —  | —   | —  | 20 | —  | 70   | —  | 500  | —   | 10  | —  | 150 |    |
| 56                                     | LFA 132 | 1       | .1  | .2  | .07  | 150  | —   | 10 | 1000 | 5   | —  | —   | —  | 50  | 10 | 20 | —  | 20   | —  | 300  | 20  | 20  | —  | 100 |    |

Table 2.--Continued

| Field<br>No.           | Lab<br>No. | Fe      | Mg  | Ca  | Ti   | Mn   | Ag  | B  | Ba   | Be | Co | Cr  | Cu | La  | Mo | Nb | Ni | Pb  | Sc | Sr   | V   | Y  | Zr  |
|------------------------|------------|---------|-----|-----|------|------|-----|----|------|----|----|-----|----|-----|----|----|----|-----|----|------|-----|----|-----|
|                        |            | Percent |     | ppm |      |      |     |    |      |    |    |     |    |     |    |    |    |     |    |      |     |    |     |
|                        |            | .05     | .02 | .05 | .002 | 10   | .5  | 10 | 10   | 1  | 5  | 10  | 5  | 20  | 5  | 20 | 5  | 10  | 5  | 100  | 10  | 10 | 10  |
| RHYOLITE               |            |         |     |     |      |      |     |    |      |    |    |     |    |     |    |    |    |     |    |      |     |    |     |
| 58                     | LFA 134    | .7      | .1  | .05 | .05  | 500  | —   | 50 | 100  | 2  | —  | —   | —  | 50  | —  | 20 | —  | 20  | —  | —    | —   | —  | 70  |
| 70                     | LFA 130    | 1.5     | .5  | .5  | .15  | 500  | 1.5 | 10 | 1000 | 2  | —  | —   | 10 | 70  | —  | —  | —  | 30  | 5  | 300  | 150 | 15 | 100 |
| 83                     | LFS 276    | 2       | .5  | 1   | .2   | 1000 | —   | 10 | 1000 | 2  | —  | —   | —  | 150 | —  | 20 | —  | 70  | 5  | 500  | 100 | 10 | 200 |
| 240                    | LFS 247    | 1       | .1  | .1  | .03  | 300  | —   | 10 | 1000 | 5  | —  | —   | 20 | 50  | —  | 50 | —  | 70  | 5  | 200  | —   | 30 | 100 |
| 259                    | LFS 181    | 1       | .2  | —   | .02  | 300  | —   | 20 | 200  | 2  | —  | —   | —  | —   | —  | 20 | —  | 50  | —  | —    | —   | 20 | 100 |
| 261                    | LFS 184    | 1.5     | .15 | .1  | .1   | 700  | —   | 10 | 500  | 2  | —  | —   | —  | 50  | —  | 20 | —  | 50  | —  | 200  | 10  | 30 | 150 |
| 333                    | LFS 117    | 1       | .1  | —   | .2   | 500  | —   | 50 | 200  | 2  | —  | —   | —  | —   | —  | 70 | —  | 50  | —  | —    | —   | 50 | 100 |
| 339                    | LFS 121    | 1       | .1  | —   | .1   | 200  | —   | 20 | 500  | 2  | —  | —   | —  | 30  | —  | 20 | —  | 50  | —  | 100  | —   | 10 | 100 |
| 344                    | LFS 124    | 1       | .02 | .05 | .05  | 300  | .5  | 20 | 100  | 2  | —  | —   | —  | —   | —  | 50 | —  | 70  | —  | 50   | —   | —  | 200 |
| 357                    | LFS 127    | 1.5     | .2  | .15 | .15  | 1000 | 2   | 20 | 700  | 3  | —  | —   | —  | 50  | —  | 20 | —  | 100 | 5  | 500  | 20  | 30 | 100 |
| 401                    | LFS 175    | 1       | .15 | .2  | .15  | 500  | .7  | 10 | 700  | 2  | —  | —   | —  | 50  | —  | 50 | —  | —   | —  | —    | —   | —  | —   |
| 405                    | LFS 177    | 1       | .2  | .1  | .1   | 500  | 1   | 50 | 700  | 2  | —  | —   | —  | 50  | 20 | 30 | —  | 50  | 5  | —    | 15  | 15 | 150 |
| 416                    | LFS 172    | .5      | .1  | .3  | .05  | 1000 | —   | 10 | 300  | 5  | —  | —   | —  | 50  | —  | 50 | —  | 100 | 10 | 1500 | —   | 15 | 100 |
| 772                    | LKG 292    | 1       | .7  | 1   | .3   | 1000 | .5  | 10 | 1500 | 2  | —  | 15  | 10 | 50  | —  | —  | —  | 300 | 10 | 1000 | 100 | 20 | 150 |
| 852                    | LKG 269    | 3       | 1.5 | 2   | .5   | 1000 | —   | 10 | 5000 | 1  | —  | —   | —  | 100 | —  | —  | —  | 30  | 15 | 1000 | 150 | 20 | 200 |
| 860                    | LKG 276    | 1       | .15 | .15 | .05  | 5000 | —   | 20 | 700  | 5  | —  | —   | —  | 50  | —  | 50 | —  | 100 | 10 | 300  | —   | 20 | 100 |
| QUARTZ LATITE PORPHYRY |            |         |     |     |      |      |     |    |      |    |    |     |    |     |    |    |    |     |    |      |     |    |     |
| 247                    | LFS 248    | 2       | .5  | .15 | .2   | 700  | —   | 10 | 1000 | 1  | —  | —   | 5  | 50  | —  | —  | —  | 50  | 7  | 500  | 50  | 10 | 150 |
| 249                    | LFS 181    | 1       | .2  | —   | .02  | 300  | —   | 20 | 200  | 2  | —  | —   | —  | —   | —  | 20 | —  | 50  | —  | —    | —   | 20 | 100 |
| 301                    | LFA 141    | 2       | .5  | 1.5 | .2   | 300  | —   | 10 | 1500 | 2  | —  | —   | —  | 100 | —  | 30 | —  | 20  | 5  | 500  | 50  | 20 | 200 |
| 303                    | LFS 279    | 2       | 1.5 | 1.5 | .5   | 2000 | —   | 10 | 1000 | 1  | 20 | 100 | 20 | 100 | —  | 20 | 15 | 30  | 15 | 700  | 150 | 30 | 200 |
| 354                    | LFS 126    | 3       | .5  | 1.5 | .3   | 1500 | 1   | 10 | 1000 | 2  | —  | —   | —  | 200 | —  | —  | —  | 70  | 7  | 700  | 70  | 20 | 200 |
| 392                    | LFS 131    | 10      | 1.5 | .7  | .5   | 1500 | —   | —  | 1500 | 1  | 20 | 100 | 5  | 150 | —  | —  | 15 | 70  | 15 | 1000 | 150 | 30 | 200 |
| 541                    | LFS 145    | 1.5     | .2  | —   | .15  | 700  | 1   | 10 | 200  | 2  | —  | —   | —  | 70  | —  | —  | —  | 70  | 5  | 500  | 20  | —  | 200 |
| 851                    | LKG 268    | 1.5     | .5  | .7  | .2   | 700  | —   | —  | 1000 | 2  | —  | 20  | 10 | 100 | —  | 20 | —  | 50  | 5  | 500  | 50  | 20 | 200 |
| 863                    | LKG 279    | 1.5     | .5  | 1   | .2   | 700  | —   | 10 | 100  | 2  | —  | —   | —  | 50  | —  | —  | —  | 70  | 5  | 700  | 50  | 20 | 100 |

Table 2.--Continued

| Field No.  | Lab No. | Fe      | Mg  | Ca  | Ti   | Mn   | Ag  | B  | Ba   | Be  | Co | Cr  | Cu  | La  | Mo | Nb | Ni  | Pb | Sc | Sr   | V   | Y  | Zr  |
|------------|---------|---------|-----|-----|------|------|-----|----|------|-----|----|-----|-----|-----|----|----|-----|----|----|------|-----|----|-----|
|            |         | Percent |     |     |      |      |     |    |      |     |    | ppm |     |     |    |    |     |    |    |      |     |    |     |
|            |         | .05     | .02 | .05 | .002 | 10   | .5  | 10 | 10   | 1   | 5  | 10  | 5   | 20  | 5  | 20 | 5   | 10 | 5  | 100  | 10  | 10 | 10  |
| RHYODACITE |         |         |     |     |      |      |     |    |      |     |    |     |     |     |    |    |     |    |    |      |     |    |     |
| 238        | LFS 246 | 2       | .3  | .1  | .15  | 1000 | 1.5 | 20 | 1000 | 3   | —  | —   | 5   | 100 | —  | 20 | —   | 70 | 7  | 200  | 20  | 10 | 500 |
| ANDESITE   |         |         |     |     |      |      |     |    |      |     |    |     |     |     |    |    |     |    |    |      |     |    |     |
| 53         | LFA 129 | 7       | 2   | 2   | .5   | 1000 | —   | 20 | 1000 | 2   | 30 | 300 | 15  | 70  | —  | 20 | 20  | 20 | 20 | 700  | 150 | 30 | 200 |
| 54         | LFA 130 | 5       | 2   | 1   | .5   | 1000 | —   | 10 | 1000 | 2   | 20 | 300 | 15  | 70  | —  | 20 | 50  | 20 | 15 | 500  | 100 | 20 | 200 |
| 55         | LFA 131 | 7       | 2   | 2   | .7   | 1000 | —   | 20 | 1000 | 3   | 20 | 70  | —   | 100 | —  | 30 | 10  | —  | —  | —    | —   | —  | —   |
| 63         | LFA 135 | 5       | 2   | 2   | .5   | 1000 | 1   | 10 | 1000 | 2   | —  | —   | —   | 50  | —  | —  | —   | 20 | 20 | 700  | 100 | 30 | 200 |
| 84         | LFA 139 | 5       | 2   | 1.5 | .5   | 1000 | —   | 10 | 1000 | 3   | 30 | 300 | 20  | 100 | —  | 20 | 50  | 20 | 20 | 500  | 100 | 30 | 150 |
| 156        | LFS 189 | 7       | 2   | 2   | 1    | 2000 | —   | 20 | 1000 | 1.5 | 20 | 100 | 50  | 100 | —  | 20 | 50  | 50 | 20 | 2000 | 150 | 30 | 200 |
| 304        | LGK 327 | 2       | .5  | 2   | .3   | 700  | —   | 10 | 700  | 1.5 | —  | —   | —   | 150 | —  | —  | —   | 50 | 10 | 700  | 50  | 15 | 200 |
| 519        | LFS 141 | 1.5     | .07 | .5  | .05  | 300  | —   | 10 | 1000 | 3   | —  | —   | —   | —   | —  | 20 | —   | 50 | —  | 700  | —   | —  | 100 |
| 521        | LFS 142 | 10      | 1.5 | 3   | 1    | 5000 | —   | 20 | 700  | —   | 50 | —   | 70  | 50  | —  | —  | 20  | 30 | 30 | 500  | 300 | —  | 200 |
| 847        | LGK 264 | 7       | 5   | 5   | 1    | 2000 | —   | 10 | 5000 | 1   | 50 | 200 | 100 | 100 | —  | 20 | 150 | 50 | 50 | 2000 | 200 | 50 | 200 |
| 869        | LGK 280 | 5       | 1.5 | 3   | 1    | 1000 | —   | 10 | 1000 | 1   | 20 | 70  | 30  | 200 | —  | 50 | 30  | 50 | 20 | 1000 | 150 | 50 | 500 |

Table 2.--Continued

| Field No.         | Lab No.  | Percent |     |     |      |      |    |    |      |     |    | ppm |     |     |    |    |    |    |    |      |     | Zr |     |
|-------------------|----------|---------|-----|-----|------|------|----|----|------|-----|----|-----|-----|-----|----|----|----|----|----|------|-----|----|-----|
|                   |          | Fe      | Mg  | Ca  | Ti   | Mn   | Ag | B  | Ba   | Be  | Co | Cr  | Cu  | La  | Mo | Nb | Ni | Pb | Sc | Sr   | V   |    | Y   |
|                   |          | .05     | .02 | .05 | .002 | 10   | .5 | 10 | 10   | 1   | 5  | 10  | 5   | 20  | 5  | 20 | 5  | 10 | 5  | 100  | 10  | 10 | 10  |
| DIKES (Continued) |          |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |    |    |    |      |     |    |     |
| DACITE            |          |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |    |    |    |      |     |    |     |
| 81                | LFS 274  | 5       | 1.5 | 1.5 | .5   | 2000 | —  | 10 | 1000 | 1   | 20 | 200 | —   | 100 | —  | 20 | 30 | 30 | 20 | 700  | 150 | 30 | 200 |
| 301               | LFA 141  | 2       | .5  | 1.5 | .2   | 300  | —  | 10 | 1500 | 2   | —  | —   | —   | 100 | —  | 30 | —  | 20 | 5  | 500  | 50  | 20 | 200 |
| 770               | L GK 290 | 2       | .7  | .5  | .5   | 1000 | —  | 20 | 1500 | 1.5 | 5  | 10  | —   | 100 | —  | 20 | —  | 50 | 10 | 700  | 100 | 20 | 200 |
| 817               | L GK 250 | 5       | 2   | 1   | .5   | 2000 | —  | 10 | 2000 | 2   | 20 | 150 | —   | 70  | —  | 20 | 20 | 70 | 20 | 500  | 150 | 20 | 150 |
| 861               | L GK 277 | 5       | 1   | 3   | 1    | 1000 | —  | 10 | 1500 | 2   | 20 | 20  | 100 | 150 | —  | 20 | 10 | 50 | 20 | 200  | 200 | 30 | 300 |
| DIABASE           |          |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |    |    |    |      |     |    |     |
| 06                | LFS 262  | 10      | 1.5 | 3   | 1    | 3000 | —  | 20 | 700  | —   | 50 | 20  | 70  | 50  | —  | —  | 50 | 50 | 30 | 500  | 200 | 50 | 200 |
| 18                | LFS 266  | 10      | 1.5 | 3   | 1    | 3000 | —  | 20 | 700  | —   | 50 | —   | 100 | 50  | —  | —  | 30 | 30 | 30 | 300  | 200 | 50 | 150 |
| 65                | LFS 271  | 10      | 3   | 7   | 1    | 2000 | —  | 20 | 700  | —   | 50 | 300 | 70  | 50  | —  | 20 | 70 | 30 | 30 | 1000 | 200 | 30 | 200 |
| 155               | LFS 188  | 10      | 1.5 | 2   | 1    | 2000 | —  | 20 | 500  | —   | 50 | 20  | 100 | 50  | —  | 20 | 10 | 20 | 30 | 300  | 200 | 50 | 200 |
| 858               | L GK 274 | 10      | 2   | 5   | 1    | 2000 | —  | 20 | 1500 | —   | 50 | —   | 100 | 70  | —  | —  | 20 | 50 | 50 | 500  | 200 | 50 | 200 |
| PEGMATITE         |          |         |     |     |      |      |    |    |      |     |    |     |     |     |    |    |    |    |    |      |     |    |     |
| 212               | LFS 161  | 2       | .3  | .1  | .2   | 1000 | —  | 10 | 1000 | 2   | —  | —   | —   | 50  | —  | 20 | —  | 30 | —  | 500  | 10  | —  | 70  |
| 223               | LFS 169  | .7      | .1  | .1  | .03  | 300  | —  | 10 | 1000 | 1   | —  | —   | —   | —   | —  | —  | —  | 70 | —  | 700  | —   | —  | 100 |

Table 3.—

Semiquantitative spectrographic analyses (six-step method) of altered rock or mineralized samples, Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho. Numbers immediately below element headings show minimum limits of determination. The symbol — indicates the element was detected but below the limit of determination, or was looked for but not detected. The following elements and their minimum limits of determination, shown in ppm in parentheses, were searched for but determinable concentrations were not found: As (200), Au (10), Cd (20), Sb (100), and W (50). Exceptions were sample 819, which contained 500 ppm As; samples 238 and 378, which contained 20 and 150 ppm Au respectively; samples 41, 42 and 388 all of which contained 150 ppm Cd; and samples 811 and 812, which contained 100 and 200 ppm W respectively. Analyzed by E. F. Cooley.

Table 3.--Continued

| Field No. | Lab No. | Fe      | Mg   | Ca  | Ti   | Mn    | Ag  | B  | Ba   | Be  | Bi  | Co | Cr  | Cu  | La  | Mo  | Nb  | Ni | Pb  | Sc    | Sn  | Sr  | V   | Y  | Zn   | Zr   |     |
|-----------|---------|---------|------|-----|------|-------|-----|----|------|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-------|-----|-----|-----|----|------|------|-----|
|           |         | Percent |      | ppm |      |       |     |    |      |     |     |    |     |     |     |     |     |    |     |       |     |     |     |    |      |      |     |
|           |         | .05     | .02  | .05 | .002 | 10    | .5  | 10 | 10   | 1   | 10  | 5  | 10  | 5   | 20  | 5   | 20  | 5  | 10  | 5     | 10  | 100 | 10  | 10 | 10   | 200  | 10  |
| 25        | LFA 098 | 1       | .1   | .15 | .07  | 200   | 20  | 20 | 500  | 2   | 15  | —  | —   | —   | 200 | 50  | 100 | —  | —   | 100   | —   | —   | —   | —  | —    | —    | 50  |
| 26        | LFA 099 | .7      | .15  | —   | .20  | 200   | —   | 20 | 500  | 3   | —   | —  | —   | —   | 7   | 50  | 20  | —  | —   | —     | 5   | —   | 50  | —  | —    | —    | 100 |
| 27        | LFA 100 | 1.5     | .20  | .50 | .07  | 500   | 3   | 50 | 1000 | 5   | —   | —  | —   | —   | 5   | 50  | 5   | 20 | —   | 20    | —   | 200 | 20  | 10 | —    | —    | 200 |
| 33        | LFA 125 | 1.5     | .15  | .10 | .05  | 200   | 7   | 30 | 1000 | 3   | —   | —  | —   | —   | —   | 50  | 50  | 20 | —   | 30    | —   | 100 | 20  | —  | —    | —    | 100 |
| 37        | LFA 126 | .7      | .10  | .10 | .15  | 50    | 2   | 30 | 500  | 3   | —   | —  | —   | —   | —   | 50  | 50  | 20 | —   | 10    | —   | —   | 50  | —  | —    | —    | 100 |
| 38        | LFA 127 | 1.5     | .10  | .05 | .05  | 200   | 5   | 10 | 700  | 2   | —   | —  | —   | —   | —   | 50  | 15  | —  | —   | 70    | —   | 200 | 10  | —  | —    | —    | 100 |
| 39        | LFA 101 | 7       | .20  | .05 | .07  | 200   | 100 | 70 | 1500 | 2   | 200 | —  | —   | —   | 200 | 50  | 50  | —  | —   | 15000 | —   | 200 | 20  | —  | 1000 | —    | 100 |
| 40        | LFA 102 | 3       | .15  | .05 | .20  | >2000 | 15  | 30 | 1500 | 3   | —   | —  | —   | —   | 30  | 50  | 20  | 20 | —   | 200   | 5   | —   | 300 | —  | 10   | 1000 | 100 |
| 41        | LFA 103 | 10      | .20  | .20 | .10  | >5000 | 15  | 20 | 1500 | 1.5 | 10  | 15 | 50  | 100 | 50  | 100 | —   | 15 | 700 | 5     | —   | 300 | 50  | 20 | 7000 | 70   |     |
| 42        | LFA 104 | 15      | .50  | 2   | .07  | 5000  | 30  | 30 | 1000 | 1.5 | 50  | 10 | 70  | 500 | 50  | 100 | 20  | 20 | 700 | 10    | —   | 500 | 70  | 20 | 5000 | 100  |     |
| 46        | LFA 105 | 3       | .50  | .10 | .20  | 1000  | 5   | 20 | 1500 | 5   | —   | 5  | —   | 15  | 50  | 5   | 20  | —  | 50  | 5     | —   | 300 | 50  | 10 | 200  | 150  |     |
| 52        | LFA 106 | 2       | .20  | .05 | .05  | 2000  | —   | 50 | 1500 | 5   | —   | —  | —   | —   | —   | 5   | —   | —  | 30  | —     | —   | 200 | 20  | 10 | —    | 50   |     |
| 78        | LFA 107 | 2       | .20  | .10 | .10  | 700   | —   | 30 | 700  | 3   | —   | —  | —   | —   | —   | 70  | 10  | —  | —   | 50    | —   | —   | 10  | —  | —    | 100  |     |
| 85        | LFA 128 | 5       | .15  | .20 | .50  | 500   | 1   | 30 | 1000 | 3   | —   | 15 | 70  | 10  | 100 | 5   | 30  | 15 | 15  | —     | —   | 200 | 100 | 20 | —    | 150  |     |
| 86        | LFA 108 | 2       | .20  | .50 | .15  | 300   | .5  | 50 | 700  | 5   | —   | —  | 20  | 5   | 50  | 15  | —   | —  | 15  | 5     | —   | —   | 70  | —  | —    | 100  |     |
| 87        | LFA 109 | 1.5     | .20  | 1   | .10  | 200   | 5   | 50 | 1000 | 5   | —   | —  | —   | —   | —   | —   | 20  | —  | 10  | —     | —   | —   | 20  | —  | —    | 100  |     |
| 89        | LFA 110 | 5       | .20  | —   | .10  | 500   | —   | 30 | 1000 | 5   | —   | —  | —   | —   | —   | 20  | 20  | —  | 30  | —     | —   | —   | 20  | —  | —    | 700  |     |
| 90        | LFA 111 | 3       | .30  | .20 | .15  | 200   | 10  | 50 | 700  | 5   | —   | —  | —   | —   | —   | 50  | 20  | —  | 50  | 10    | —   | 100 | 50  | 10 | —    | 100  |     |
| 91        | LFA 112 | 1       | .10  | —   | .07  | 200   | 100 | 50 | 1000 | 2   | —   | —  | —   | —   | 5   | 50  | 500 | —  | —   | 70    | —   | 100 | 20  | —  | —    | 100  |     |
| 92        | LFA 113 | 1.5     | .10  | .05 | .07  | 150   | 30  | 20 | 1000 | 2   | —   | —  | —   | —   | —   | 50  | 500 | —  | —   | 50    | —   | —   | 20  | —  | —    | 100  |     |
| 93        | LFA 114 | 2       | .50  | 2   | .20  | 200   | 1   | 20 | 150  | 3   | —   | —  | —   | —   | 5   | 50  | 20  | —  | 20  | 5     | —   | 200 | 50  | 20 | —    | 100  |     |
| 114       | LFA 120 | 3       | 1.50 | .20 | .50  | 500   | —   | —  | 1500 | 5   | —   | 10 | 300 | 10  | 50  | 70  | 20  | 50 | 15  | 10    | —   | 300 | 70  | 15 | —    | 150  |     |
| 132       | LFA 121 | 1       | .30  | .05 | .05  | 200   | 1   | 50 | 700  | 5   | —   | —  | —   | —   | 5   | 50  | 7   | —  | —   | 20    | —   | —   | 10  | —  | —    | 100  |     |
| 133       | LFA 122 | .7      | .10  | .15 | .05  | 150   | —   | 20 | 700  | 1.5 | —   | —  | —   | —   | —   | 50  | —   | —  | —   | —     | —   | 100 | 20  | —  | —    | 30   |     |
| 134       | LFA 123 | 2       | .50  | .15 | .30  | 300   | 70  | 30 | 700  | 5   | —   | —  | —   | —   | —   | 50  | —   | —  | 20  | 5     | —   | 100 | 50  | —  | —    | 150  |     |
| 137       | LFA 127 | 2       | .20  | .10 | .30  | 100   | 7   | 20 | 1000 | 3   | —   | —  | —   | —   | 30  | 50  | 70  | 20 | 30  | 5     | 100 | 200 | 50  | —  | —    | 150  |     |
| 141       | LFR 920 | 2       | .20  | .70 | .15  | 150   | —   | 10 | 2000 | 2   | —   | —  | —   | —   | —   | 50  | —   | 20 | 50  | —     | —   | 700 | 20  | —  | —    | 200  |     |
| 146       | LFR 921 | 1       | .15  | .15 | .15  | 150   | 3   | 10 | 500  | 1   | —   | —  | 10  | 20  | 50  | 50  | —   | —  | 20  | —     | —   | —   | 50  | —  | —    | 100  |     |
| 162       | LFR 922 | .2      | .05  | —   | .01  | 700   | 2   | 10 | 200  | —   | —   | —  | —   | —   | —   | 50  | —   | —  | 20  | —     | —   | —   | —   | —  | —    | —    |     |
| 202       | LFA 118 | 1       | .10  | .20 | .20  | 300   | 1   | 10 | 300  | 5   | —   | —  | —   | —   | —   | 50  | —   | 30 | 70  | 5     | —   | 100 | 10  | 20 | —    | 70   |     |

Table 3.--Continued

| Field<br>No. | Lab<br>No. | Fe  | Percent |     |      | ppm  |     |     |      |     |     |    |     |     |     | Y   | Zn | Zr |       |    |     |     |     |    |      |     |    |
|--------------|------------|-----|---------|-----|------|------|-----|-----|------|-----|-----|----|-----|-----|-----|-----|----|----|-------|----|-----|-----|-----|----|------|-----|----|
|              |            |     | Mg      | Ca  | Ti   | Mn   | Ag  | B   | Ba   | Be  | Bi  | Co | Cr  | Cu  | La  |     |    |    | Mo    | Nb | Ni  | Pb  | Sc  | Sn | Sr   | V   |    |
|              |            | .05 | .02     | .05 | .002 | 10   | .5  | 10  | 1    | 10  | 5   | 10 | 5   | 10  | 5   | 20  | 5  | 20 | 5     | 10 | 5   | 10  | 10  | 10 | 10   | 200 | 10 |
| 204          | LFA 119    | 5   | 1       | .20 | .50  | 500  | 3   | 10  | 2000 | 3   | —   | 5  | 50  | 20  | 100 | —   | 20 | 15 | 30    | 10 | —   | 500 | 70  | 20 | —    | 150 |    |
| 238          | LFA 116    | 2   | .20     | —   | .07  | 150  | 20  | 70  | 700  | 3   | —   | —  | —   | 5   | 50  | 10  | —  | —  | 20    | 5  | —   | —   | 20  | —  | —    | 70  |    |
| 304          | LFA 115    | 5   | 2       | .70 | .50  | 2000 | .5  | 50  | 1500 | 5   | —   | —  | —   | —   | 100 | —   | 30 | 50 | 100   | 20 | —   | 300 | 100 | 30 | 500  | 150 |    |
| 328          | LFS 335    | .5  | .10     | .05 | .03  | 150  | 7   | 50  | 150  | 5   | —   | —  | —   | —   | —   | —   | 10 | —  | —     | —  | —   | —   | —   | —  | —    | 50  |    |
| 332          | LFR 901    | 1.5 | .20     | .20 | .10  | 500  | —   | 50  | 1000 | 2   | —   | —  | —   | —   | 50  | —   | —  | 5  | 20    | —  | —   | 300 | 10  | —  | —    | 200 |    |
| 352          | LFR 902    | 1   | .10     | 1   | .05  | 50   | —   | 20  | 700  | 1   | —   | —  | —   | —   | 20  | —   | —  | —  | —     | —  | —   | —   | —   | —  | —    | —   |    |
| 377          | LFR 903    | 7   | .20     | —   | .10  | 100  | 20  | 150 | 1000 | 2   | 50  | —  | —   | 100 | 50  | 5   | 20 | —  | 1000  | —  | —   | 200 | 20  | —  | 200  | 100 |    |
| 378          | LFR 904    | 10  | .20     | —   | .10  | 50   | 300 | 200 | 700  | 3   | 100 | —  | —   | 150 | 50  | 30  | 20 | —  | 1000  | —  | —   | —   | 20  | —  | 2000 | 100 |    |
| 379          | LFR 905    | 1   | .20     | .70 | .15  | 700  | 1   | 200 | 1000 | 5   | —   | —  | —   | 5   | 50  | —   | —  | —  | 50    | —  | —   | 200 | 10  | —  | —    | 150 |    |
| 384          | LFR 906    | 1   | .07     | —   | .05  | 100  | 7   | 100 | 300  | 2   | —   | —  | —   | 5   | 30  | —   | —  | —  | 100   | —  | —   | —   | —   | —  | —    | 50  |    |
| 386          | LFR 907    | 1.5 | .30     | —   | .15  | 700  | 15  | 50  | 1000 | 1   | —   | —  | —   | 150 | 50  | 5   | 20 | —  | 1500  | —  | —   | 100 | 20  | —  | 200  | 150 |    |
| 387          | LFR 908    | 3   | .05     | .05 | .07  | 200  | 70  | 20  | 100  | 1   | —   | —  | 100 | 200 | 50  | 30  | —  | —  | 300   | —  | —   | —   | 30  | —  | 300  | 20  |    |
| 388          | LFR 909    | 15  | .30     | .70 | .03  | 1500 | 200 | 20  | 500  | 2   | 150 | 30 | —   | —   | —   | 150 | —  | —  | 2000  | —  | —   | 200 | 30  | —  | 7000 | 100 |    |
| 389          | LFR 910    | 10  | .15     | .05 | .15  | 500  | 10  | 20  | 1000 | 2   | —   | —  | —   | —   | —   | 100 | 20 | —  | 500   | —  | —   | 500 | 70  | —  | —    | 200 |    |
| 391          | LFR 919    | 3   | .30     | .30 | .30  | 1000 | —   | 150 | 2000 | 2   | —   | —  | —   | —   | —   | —   | 20 | —  | 300   | —  | —   | 700 | 50  | 20 | —    | 300 |    |
| 397          | LFR 911    | 1   | .02     | .05 | .03  | 200  | .5  | 10  | 500  | 2   | —   | —  | —   | 5   | 30  | —   | 20 | —  | 10    | —  | —   | —   | 10  | —  | —    | 100 |    |
| 422          | LFR 923    | 1   | .30     | .5  | .15  | 500  | 7   | 30  | 700  | 2   | —   | —  | —   | —   | 50  | —   | 20 | —  | 10    | —  | —   | —   | 30  | 15 | —    | 100 |    |
| 423          | LFR 924    | 1   | .30     | .10 | .20  | 500  | 20  | 50  | 700  | 3   | —   | —  | —   | 20  | 150 | 100 | 30 | —  | 50    | 5  | —   | —   | 70  | 20 | —    | 200 |    |
| 434          | LFR 925    | 1   | .20     | .10 | .15  | 300  | —   | 20  | 1000 | 2   | —   | —  | —   | —   | 50  | —   | 20 | —  | 50    | —  | —   | 200 | 20  | —  | —    | 200 |    |
| 445          | LFR 339    | .7  | .10     | .10 | .02  | 200  | —   | 50  | 700  | 2   | —   | —  | —   | 15  | 50  | —   | 20 | —  | 30    | —  | —   | 200 | —   | 20 | —    | 200 |    |
| 447          | LFR 926    | .3  | .05     | —   | .02  | 100  | 200 | 50  | 300  | 2   | 150 | —  | —   | —   | 50  | 50  | —  | —  | 300   | —  | —   | —   | —   | —  | —    | 20  |    |
| 520          | LFA 912    | 2   | .10     | .30 | .10  | 500  | —   | 10  | 1000 | 1.5 | —   | —  | —   | —   | 30  | —   | 20 | —  | 30    | —  | —   | 700 | 10  | —  | —    | 100 |    |
| 530          | LFR 913    | 1   | .20     | .10 | .15  | 500  | .5  | 70  | 200  | 3   | —   | —  | —   | —   | 30  | —   | 30 | —  | 50    | —  | —   | —   | 20  | —  | —    | 100 |    |
| 531          | LFR 914    | 3   | .20     | .30 | .50  | 1000 | —   | 50  | 200  | 2   | —   | 20 | 70  | 10  | 50  | —   | 20 | 50 | 10    | 15 | —   | 200 | 70  | 20 | —    | 200 |    |
| 544          | LFS 336    | 5   | 1.50    | .50 | .50  | 5000 | 10  | 10  | 700  | 3   | 20  | 15 | 150 | 5   | 50  | —   | 30 | 50 | 300   | 15 | —   | 300 | 100 | 20 | 1000 | 200 |    |
| 553          | LFS 337    | 5   | 1.50    | 1   | .30  | 100  | —   | 10  | 100  | —   | —   | —  | —   | 20  | 50  | —   | 20 | —  | 20    | 15 | —   | 500 | 100 | 20 | —    | 200 |    |
| 554          | LFR 915    | 10  | 1.50    | .30 | .70  | 1000 | 5   | 20  | 1000 | 3   | —   | 20 | 70  | 300 | 50  | 20  | 50 | 5  | 100   | 20 | 50  | 700 | 150 | 50 | —    | 200 |    |
| 556          | LFR 916    | 5   | .20     | .30 | .50  | 1500 | .5  | 30  | 1000 | 2   | —   | 20 | 20  | 70  | 70  | 15  | 30 | 5  | 20    | 15 | —   | 300 | 150 | 20 | —    | 200 |    |
| 557          | LFR 917    | 7   | 1       | .20 | .50  | 500  | —   | 10  | 700  | 1   | —   | 20 | 20  | 20  | 50  | —   | 20 | 5  | 20    | 15 | —   | 300 | 100 | 10 | —    | 150 |    |
| 559          | LFR 918    | 1.5 | .20     | .05 | .15  | 300  | —   | 20  | 1000 | 5   | —   | —  | —   | —   | 50  | 5   | 30 | —  | 10    | 15 | —   | 300 | 100 | 10 | —    | 150 |    |
| 608          | LFS 340    | 10  | .70     | —   | .07  | 500  | 500 | 100 | 1000 | 10  | 300 | —  | —   | 200 | —   | 100 | 30 | —  | 2000  | 5  | 50  | —   | 50  | —  | 700  | 50  |    |
| 609          | LFR 927    | 5   | .05     | .10 | .02  | 100  | 50  | 10  | 150  | 1   | 500 | —  | —   | 200 | —   | 10  | —  | —  | 500   | —  | —   | —   | —   | 30 | 300  | —   |    |
| 610          | LFR 928    | 10  | 1       | .07 | .30  | 700  | 70  | 100 | 1000 | 20  | 50  | —  | —   | 200 | —   | 30  | 50 | —  | 10000 | 10 | 70  | —   | 100 | —  | 700  | 200 |    |
| 811          | LGD 814    | 2   | 1       | —   | .50  | 150  | 100 | 20  | 1000 | 100 | 70  | —  | 20  | 70  | 50  | 70  | 30 | —  | 300   | 10 | 100 | 200 | 100 | 10 | —    | 200 |    |
| 812          | LGD 815    | 3   | 1       | —   | .50  | 150  | 200 | 20  | 500  | 10  | 200 | —  | 100 | 700 | 50  | 50  | 30 | 10 | 2000  | 15 | 100 | —   | 100 | —  | —    | 200 |    |
| 813          | LGD 816    | 1   | .15     | —   | .05  | 150  | 20  | 20  | 200  | 3   | —   | —  | —   | 5   | 30  | 300 | 20 | 5  | 200   | —  | —   | —   | 20  | —  | —    | 50  |    |
| 816          | LGD 817    | 2   | .50     | .07 | .20  | 500  | 5   | 20  | 700  | 3   | —   | 10 | 50  | 7   | 50  | 50  | 20 | 10 | 50    | 10 | —   | 100 | —   | —  | —    | 150 |    |

Table 3.--Continued

| Field No. | Lab No. | Percent |     |     |      |      |     |    |      |    |    | ppm |     |    |     |      |    |    |      |    |    | Zr   |     |    |     |     |
|-----------|---------|---------|-----|-----|------|------|-----|----|------|----|----|-----|-----|----|-----|------|----|----|------|----|----|------|-----|----|-----|-----|
|           |         | Fe      | Mg  | Ca  | Ti   | Mn   | Ag  | B  | Ba   | Be | Bi | Co  | Cr  | Cu | La  | Mo   | Nb | Ni | Pb   | Sc | Sn |      | Sr  | V  | Y   | Zn  |
|           |         | .05     | .02 | .05 | .002 | 10   | .5  | 10 | 10   | 1  | 10 | 5   | 10  | 5  | 20  | 5    | 20 | 5  | 10   | 5  | 10 | 100  | 10  | 10 | 200 | 10  |
| 818       | LGD 818 | 1       | .20 | —   | .05  | 200  | 100 | 20 | 700  | 3  | —  | —   | —   | —  | 50  | 100  | 20 | —  | 70   | —  | —  | —    | 50  | —  | —   | 150 |
| 819       | LGD 819 | 2       | .15 | —   | .03  | 100  | 50  | 30 | 500  | 3  | —  | —   | 20  | —  | 30  | 50   | 20 | —  | 2000 | —  | —  | —    | 10  | —  | —   | 50  |
| 820       | LGD 820 | 1       | .20 | .10 | .10  | 300  | 1   | 10 | 1000 | 2  | —  | —   | —   | —  | 20  | 20   | 20 | 5  | 50   | —  | —  | 200  | 20  | —  | —   | 150 |
| 821       | LGD 821 | 7       | .30 | —   | .15  | 300  | 50  | 50 | 1000 | 3  | 30 | —   | —   | 50 | 20  | 200  | 20 | —  | 1000 | 5  | —  | —    | 20  | —  | 200 | 150 |
| 825       | LGD 822 | 1       | .10 | .20 | .03  | 100  | 7   | 10 | 1000 | 2  | —  | —   | —   | 10 | 20  | 150  | 20 | —  | 20   | —  | —  | —    | 15  | —  | —   | 150 |
| 831       | LGD 823 | 1       | .15 | .50 | .10  | 300  | .5  | 10 | 1000 | 2  | —  | —   | —   | 10 | 20  | 30   | 20 | —  | 50   | —  | —  | 200  | 10  | —  | —   | 100 |
| 832       | LGD 824 | 2       | .20 | —   | .15  | 300  | 2   | 10 | 700  | 2  | —  | —   | —   | 10 | 20  | 30   | 30 | —  | 70   | 7  | —  | 100  | 20  | —  | —   | 150 |
| 833       | LGD 825 | 2       | .20 | .30 | .20  | 700  | 7   | 10 | 700  | 2  | 20 | —   | —   | 10 | 20  | 70   | 50 | —  | 500  | 7  | —  | 100  | 50  | 15 | —   | 100 |
| 834       | LGD 826 | 1.5     | .20 | .30 | .15  | 200  | .5  | 10 | 1000 | 3  | —  | —   | —   | 7  | 20  | 30   | 20 | —  | 20   | 5  | —  | 200  | 50  | 10 | —   | 100 |
| 835       | LGD 827 | 2       | .20 | .70 | .20  | 150  | 15  | 10 | 1500 | 2  | —  | —   | —   | 7  | 70  | 1500 | 20 | —  | 100  | 5  | —  | 500  | 20  | 15 | —   | 150 |
| 837       | LGD 828 | 1       | .20 | —   | .10  | 100  | 5   | 20 | 700  | 2  | —  | —   | —   | 7  | 50  | 50   | 20 | —  | 20   | —  | —  | —    | 20  | 10 | —   | 100 |
| 838       | LGD 829 | 10      | .20 | —   | .15  | 1500 | 2   | 50 | 500  | 2  | —  | —   | 30  | 15 | 50  | 500  | —  | 10 | 50   | 5  | —  | —    | 50  | 10 | —   | 100 |
| 839       | LGD 830 | 1.5     | .30 | .10 | .15  | 300  | 5   | 30 | 1000 | 3  | —  | —   | —   | —  | 50  | 100  | 20 | —  | 30   | —  | —  | —    | 50  | 10 | —   | 100 |
| 840       | LGD 831 | 1.5     | .50 | .70 | .30  | 500  | 2   | 20 | 1000 | 2  | —  | —   | —   | 10 | 50  | 20   | 20 | —  | 70   | 5  | —  | 700  | 50  | 10 | —   | 150 |
| 844       | LGD 832 | 1.5     | .20 | .20 | .20  | 700  | —   | 30 | 1000 | 5  | —  | —   | —   | 10 | 50  | 5    | 30 | —  | 20   | —  | —  | 200  | 30  | 20 | —   | 150 |
| 856       | LGD 833 | 1.5     | .15 | —   | .20  | 700  | 1.5 | 50 | 1000 | 3  | —  | —   | —   | 5  | 50  | 10   | 50 | —  | 50   | 5  | —  | 200  | 30  | 10 | —   | 150 |
| 864       | LGD 834 | 1       | .15 | .70 | .02  | 1000 | 15  | 20 | 1000 | 5  | —  | —   | —   | 5  | 50  | 5    | —  | —  | 30   | —  | —  | 300  | 20  | 15 | —   | 20  |
| 865       | LGD 835 | 1       | .20 | .20 | .20  | 1000 | —   | 20 | 3000 | 3  | —  | —   | —   | —  | 50  | —    | 20 | —  | 50   | —  | —  | 700  | 30  | 10 | —   | 150 |
| 866       | LGD 836 | 1.5     | .15 | —   | .05  | 300  | 200 | 30 | 500  | 5  | —  | —   | —   | —  | 30  | 1000 | 20 | —  | 500  | —  | —  | —    | 50  | —  | —   | 70  |
| 867       | LGD 837 | 1.5     | .50 | 1   | .20  | 1000 | —   | 10 | 2000 | 2  | —  | —   | —   | 5  | 50  | —    | 20 | —  | 70   | 5  | —  | 1000 | 20  | —  | —   | 150 |
| 868       | LGD 838 | 1.5     | .50 | 1   | .20  | 700  | —   | 10 | 1000 | 2  | —  | —   | —   | —  | 150 | —    | 20 | —  | 70   | 7  | —  | 500  | 50  | 20 | —   | 150 |
| 870       | LGD 839 | 2       | 1   | 1   | .70  | 1000 | .5  | 10 | 500  | 2  | —  | 10  | 100 | 70 | 50  | —    | 20 | —  | 50   | 10 | —  | 200  | 100 | 10 | —   | 150 |



Table 4.--Atomic absorption analyses of altered rock or mineralized samples, Ten Mile West Roadless Area, Boise and Elmore Counties, Idaho. Numbers immediately below element headings show minimum limits of determination. The symbol N indicates that values were not detected at the limit of detection. The symbol - indicates the element was not analyzed. Analysts: B. Arbogast, J. G. Viets, C. Eason, B. Vaughn and S. Royse.

Table 4.--Continued

| Sample No. | Ag  | Au  | Cu  |    | Pb    | Zn    | Mo | Remarks                     |
|------------|-----|-----|-----|----|-------|-------|----|-----------------------------|
|            |     |     | ppm |    |       |       |    |                             |
|            | .05 | .05 | 5   |    | 5     | 5     | 1  |                             |
| 25         | 15  | N   | 250 |    | 170   | 50    | —  | Quartz vein                 |
| 26         | .50 | N   | 10  |    | 15    | 5     | —  | Quartz vein                 |
| 27         | .65 | N   | N   |    | 15    | 10    | —  | Quartz vein                 |
| 33         | 2   | N   | 10  |    | 25    | 15    | —  | Massive quartz vein         |
| 37         | .55 | N   | N   |    | 15    | 15    | —  | Massive quartz vein         |
| 38         | .80 | N   | N   |    | 45    | 75    | —  | Dump fragments              |
| 39         | 48  | N   | 85  |    | 5,200 | 490   | —  | Dump fragments              |
| 40         | 3.5 | N   | 35  |    | 150   | 910   | —  | Dump fragments              |
| 41         | 5   | N   | 190 |    | 160   | 5,100 | —  | Dump fragments              |
| 42         | 12  | N   | 160 |    | 130   | 2,600 | —  | Dump fragments              |
| 46         | 1.5 | N   | 10  |    | 30    | 85    | —  | Quartz vein                 |
| 52         | .1  | N   | N   |    | 20    | 30    | —  | Dump fragments              |
| 78         | .15 | N   | N   |    | 30    | 25    | —  | Wall of prospect pit        |
| 85         | .15 | N   | 5   |    | 20    | 55    | —  | Quartz vein                 |
| 86         | .30 | N   | N   |    | 20    | 25    | —  | Quartz vein                 |
| 87         | 3.5 | .10 | N   |    | 10    | 10    | —  | Quartz vein                 |
| 89         | .05 | N   | N   |    | 20    | 55    | —  | Quartz vein                 |
| 90         | 2.5 | N   | N   |    | 20    | 15    | —  | Quartz vein                 |
| 91         | 50  | N   | N   |    | 70    | 10    | —  | Quartz vein                 |
| 92         | 27  | N   | N   |    | 45    | 5     | —  | Dump fragments              |
| 93         | .50 | N   | N   |    | 15    | 30    | —  | Dump fragments              |
| 114        | N   | N   | 5   |    | 15    | 40    | —  | Quartz vein                 |
| 132        | .10 | N   | N   |    | 15    | 10    | —  | Quartz vein                 |
| 133        | N   | N   | N   |    | N     | 5     | —  | Quartz vein                 |
| 134        | 40  | N   | N   |    | 30    | 15    | —  | Silicified dike             |
| 137        | 3.5 | N   | N   |    | 30    | 15    | —  | Altered monzogranite        |
| 141        | .10 | N   | N   | 15 | 30    | 15    | —  | Quartz vein                 |
| 146        | .80 | N   | N   |    | 10    | 10    | N  | Altered granodiorite        |
| 162        | 1.9 | N   | 15  |    | 15    | 10    | 22 | Altered granodiorite        |
| 202        | .25 | N   | N   |    | 50    | 30    | 4  | Quartz vein                 |
| 204        | .50 | N   | N   |    | 30    | 25    | —  | Altered granodiorite        |
| 238        | 8.5 | N   | 10  |    | 20    | 40    | —  | Altered rhyolite dike       |
| 304        | .15 | 5.6 | N   |    | 25    | 5     | —  | Altered rhyolite dike       |
| 328        | 4.3 | N   | N   |    | 25    | 5     | —  | Altered andesite dike       |
| 332        | N   | .05 | N   |    | 10    | 10    | 1  | Brecciated quartz vein      |
| 352        | .20 | .10 | N   |    | 5     | 25    | N  | Fragments from prospect pit |
|            |     |     | N   |    | 20    | 20    | 4  | Quartz vein                 |

Table 4.--Continued

| Sample No. | Ag  | Au  | ppm |    |    |      | Zn   | Pb | Mo  | Remarks                         |
|------------|-----|-----|-----|----|----|------|------|----|-----|---------------------------------|
|            |     |     | Ag  | Au | Cu | Pb   |      |    |     |                                 |
|            | .05 | .05 | 5   | 5  | 1  | 5    | 5    | 5  | 1   |                                 |
| 377        | 14  | 18  | 70  |    |    | 310  | 310  |    | 3   | Altered monzogranite            |
| 378        | 89  | 110 | 70  |    |    | 550  | 820  |    | 14  | Fragments from prospect pit     |
| 379        | .20 | .15 | N   |    |    | 20   | 35   |    | 1   | Dump fragments                  |
| 384        | 7.6 | 2.5 | 5   |    |    | 150  | 55   |    | 1   | Dump fragments                  |
| 386        | 2.4 | N   | 90  |    |    | 480  | 130  |    | 4   | Altered monzogranite            |
| 387        | 16  | N   | 210 |    |    | 350  | 230  |    | 25  | Dump fragments                  |
| 388        | 128 | N   | 780 |    |    | 1600 | 3700 |    | 80  | Dump fragments                  |
| 389        | 2.4 | N   | 470 |    |    | 15   | 30   |    | 45  | Chip Sample at gossan           |
| 391        | .05 | N   | N   |    |    | 45   | 120  |    | N   | Altered monzogranite            |
| 397        | .10 | N   | N   |    |    | N    | 10   |    | 1   | Quartz vein                     |
| 422        | 6.6 | N   | N   |    |    | 15   | N    |    | 3   | Altered rhyolite dike           |
| 423        | 8.3 | N   | 10  |    |    | 20   | 15   |    | 29  | Quartz vein in rhyolite dike    |
| 434        | N   | N   | N   |    |    | 5    | 20   |    | N   | Chip sample in prospect pit     |
| 445        | N   | N   | N   |    |    | 15   | N    |    | N   | Altered monzogranite            |
| 447        | 112 | 1.5 | N   |    |    | 140  | 10   |    | 27  | Chip sample from prospect pit   |
| 520        | N   | N   | N   |    |    | 5    | 20   |    | N   | Altered monzogranite            |
| 530        | .20 | N   | N   |    |    | 20   | 10   |    | 3   | Gossan - quartz vein            |
| 531        | .05 | N   | 5   |    |    | 10   | 110  |    | 1   | Altered monzogranite            |
| 544        | 1.7 | N   | N   |    |    | 150  | 230  |    | N   | Altered rhyodacite dike         |
| 553        | N   | N   | 10  |    |    | N    | 25   |    | N   | Altered quartz monzodiorite     |
| 554        | .80 | N   | 210 |    |    | 25   | 80   |    | 8   | Silicified biotite granodiorite |
| 556        | .20 | N   | 10  |    |    | 10   | 45   |    | 6   | Silicified gossan               |
| 557        | .05 | N   | 10  |    |    | N    | 70   |    | N   | Silicified gossan               |
| 559        | .20 | N   | N   |    |    | 15   | 25   |    | 4   | Altered biotite granodiorite    |
| 608        | 137 | N   | 110 |    |    | 660  | 340  |    | 43  | Brecciated quartz vein          |
| 609        | 26  | N   | 80  |    |    | 310  | 200  |    | 12  | Brecciated quartz vein          |
| 610        | 8.9 | N   | 70  |    |    | 920  | 290  |    | 9   | Altered monzogranite            |
| 811        | 65  | N   | 90  |    |    | 155  | 20   |    | 23  | Fragments from prospect pit     |
| 812        | 130 | N   | 930 |    |    | 1550 | 40   |    | 19  | Fragments from prospect pit     |
| 813        | 170 | .10 | 5   |    |    | 140  | 35   |    | 170 | Quartz vein                     |
| 816        | 2.8 | N   | 5   |    |    | 25   | 25   |    | 25  | Quartz vein in andesite dike    |
| 818        | 30  | .05 | 5   |    |    | 25   | 10   |    | 65  | Quartz vein                     |
| 819        | 45  | 43  | 30  |    |    | 3400 | 115  |    | 25  | Iron-stained quartz vein        |
| 820        | 1.1 | .05 | 10  |    |    | 15   | 25   |    | 1   | Quartz veins                    |
| 821        | 15  | 5.5 | 40  |    |    | 580  | 100  |    | 90  | Iron-stained quartz vein        |

Table 4.--Continued

| No. | Ag  | Au  | ppm |     |    | Zn  | Mo | Remarks                           |
|-----|-----|-----|-----|-----|----|-----|----|-----------------------------------|
|     |     |     | Cu  | Pb  |    |     |    |                                   |
|     | .05 | .05 | 5   | 5   | 5  | 1   |    |                                   |
| 825 | 2.6 | .05 | N   | 5   | 15 | 60  |    | Silicified altered zone           |
| 831 | .35 | .05 | 10  | 10  | 25 | 5.5 |    | Quartz stringers in altered rock  |
| 832 | .85 | .05 | 10  | 20  | 40 | 8.5 |    | Quartz stringers in altered rock  |
| 833 | 3.8 | N   | 10  | 300 | 40 | 24  |    | Brecciated and altered zone       |
| 834 | .30 | N   | 5   | 5   | 25 | 13  |    | Iron-stained altered zone         |
| 835 | 4.1 | N   | 5   | 70  | 45 | 600 |    | Quartz vein                       |
| 837 | 2.9 | N   | 5   | 5   | N  | 23  |    | Chips across vein                 |
| 838 | 1   | .10 | 5   | 20  | 35 | 95  |    | Mineralized shear zone            |
| 839 | 1.1 | N   | 5   | 10  | 30 | 55  |    | Quartz stringers in andesite dike |
| 840 | .55 | N   | 5   | 5   | 30 | 7.5 |    | Altered biotite granodiorite      |
| 844 | .30 | N   | N   | 5   | 25 | N   |    | Iron-stained quartz vein          |
| 856 | .90 | N   | N   | 10  | 10 | 40  |    | Iron-stained rhyolite dike        |
| 864 | 6.2 | .05 | 5   | 15  | 25 | 4   |    | Iron-stained quartz vein          |
| 865 | N   | N   | N   | 5   | 30 | N   |    | Altered biotite granodiorite      |
| 866 | 120 | .10 | 10  | 426 | 70 | 400 |    | Quartz vein                       |
| 867 | .35 | N   | 5   | 5   | 50 | N   |    | Altered monzogranite              |
| 868 | .15 | .05 | N   | 5   | 55 | 1   |    | Altered, iron-stained zone        |
| 870 | 2.5 | N   | 75  | 30  | 40 | N   |    | Brecciated quartz vein            |