UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

# Semiquantitative Spectrographic Analyses of Rocks from the Mount Jordan Vicinity, Custer County, Idaho

By

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Open-File Report 82-467
1982

## DISCUSSION

One hundred and twenty-seven rock samples were collected from the Mount Jordan vicinity for semiquantitative spectrographic analysis to help define areas that might be favorable for additional exploration. This study was part of the Challis $1^{o}$x $2^{o}$, Idaho mapping project which is part of the Conterminous United States Mineral Resource Assessment Program (CUSMAP) of the U.S. Geological Survey. Brief descriptions of the geologic setting (Foster, 1981a,b) and a geologic map of the area (Foster, 1982) are available.

Only samples considered to be representative of a particular lithology and type of hydrothermal alteration were collected. Parts of outcrops affected by recognizable weathering processes were not sampled. The collection of uniform rock chip size was used to prevent sample-volume variation.

The rock samples were crushed to minus 6 mm in a jaw crusher, split, and then ground to minus 0.1 mm in a vertical pulverizer equipped with ceramic plates. Analyses were performed using six-step semiquantitative spectrographic direct-current arc emission spectrography. Values are reported as the approximate geometric midpoints (1.0, 1.5, 2.0, 3.0, 5.0, 7.0, and so forth) of geometric brackets having the boundaries 0.83, 1.2, 1.8, 2.6, 3.8, 5.6, 8.3, and so forth. Grimes and Marranzino (1968) provide a discussion of this technique. The precision of the emission spectrographic method is given by Motooka and Grimes (1976). Rock sample localities are shown on figure 1. Results of all analyses are shown in table 1.

## REFERENCES CITED


Foster, Fess, 1981a, Field relationships of Challis volcanics in the vicinity of Mt. Jordan, Custer County, Idaho: Northwest Geology, v. 10, p. 46-55.

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Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

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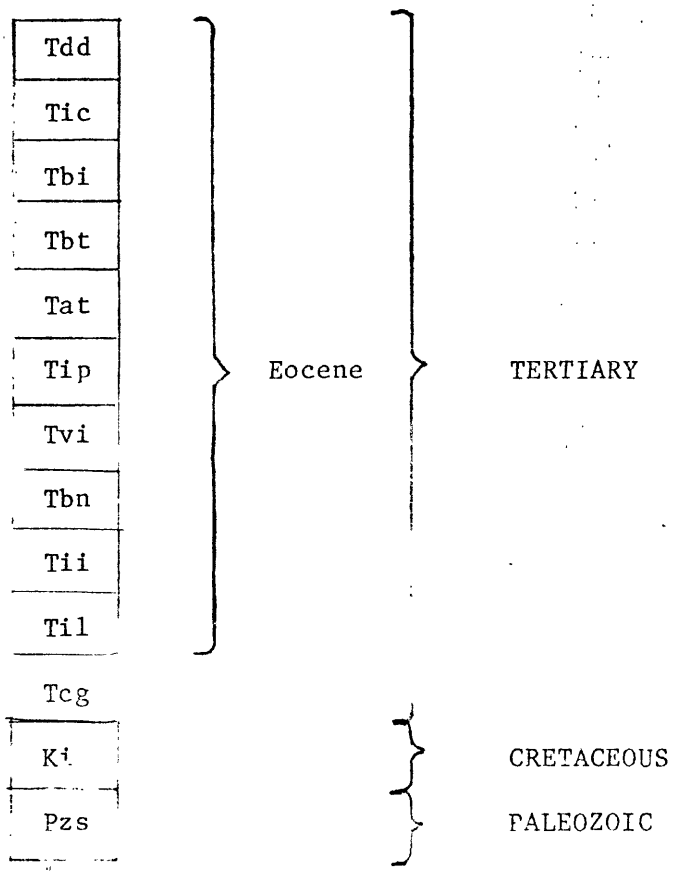
CORRELATION OF GEOLOGIC UNITS



## DESCRIPTION OF GEOLOGIC UNITS SHOWN IN TABLE 1

(Descriptions based on hand sample identification and outcrop appearance)

CHALLIS VOLCANICS (EOCENE)

**Tdd** Dark dikes--Dark-gray, porphyritic intrusions of quartz latite(?) containing about 10 percent phenocrysts consisting of plagioclase (1-2 mm), alkali feldspar (1-2 mm), and unidentifiable ferromagnesian minerals (1-2 mm). Typically altered and occasionally vesicular

**Tic** Intrusive complex--Ruddy-colored, weathering into prominent outcrops; discordant rhyolitic stock and associated dikelets. Contains 15 percent phenocrysts or less consisting of quartz (1-2 mm), sanidine (1-3 mm), and occasional altered ferromagnesian minerals (1 mm)

**Tbi** Basaltic intrusive rocks--Dark-gray to black porphyritic intrusive rocks containing about 25 percent phenocrysts consisting of pyroxene (1 mm) and plagioclase (less than 1 mm) in a gray-black aphanitic matrix

**Tbt** Bedded tuffaceous rocks--Light-gray to black, laminated, chiefly carbonaceous siltstones, tuffaceous epiclastic debris, air-fall tuff, and possible water-lain tuff. Minor nonwelded, crystal-poor ash-flow tuff occurs as small canyon filling deposits within the unit. Estimated thickness approximately 350 m

**Tat** Ash-flow tuff--Simple cooling unit of light-gray, crystal- and pumice-rich, lithic-poor rhyodacitic welded ash-flow tuff. Contains green fiamme as much as 25 cm long and approximately 20 percent phenocrysts consisting of plagioclase (1-2 mm), alkali feldspar (1-2 mm), quartz (0.5-1 mm), biotite (0.5-1 mm), and hornblende (0.5-1 mm). Tuff contains sedimentary basement rock lithic fragments. Thickness ranges from 375 to 675 m

**Tip** Intermediate porphyry--Dark-gray intrusive rock containing about 20 percent phenocrysts consisting of plagioclase (5-10 mm) and subordinate ferromagnesian minerals (1-2 mm) and quartz (1-2 mm). Accidental xenoliths of unit Pzs are common in the rock

**Tvi** Vent intrusive mass--Dark-gray to black andesitic intrusive rock containing less than 10 percent phenocrysts of plagioclase (1-2 mm) and hornblende (1 mm) in an aphanitic groundmass. Abundant rounded xenoliths of juvenile, accidental, and accessory rock fragments 0.1 mm to 3 m in size make up to 50 percent of the rock near the margins of the intrusive mass

**Tbn** Breccia neck--Dark-green to purple, extensively autobrecciated andesitic intrusive rock containing about 25 percent phenocrysts of plagioclase (0.5-1 mm), pyroxene (0.5-1 mm), and hornblende (0.5 mm)

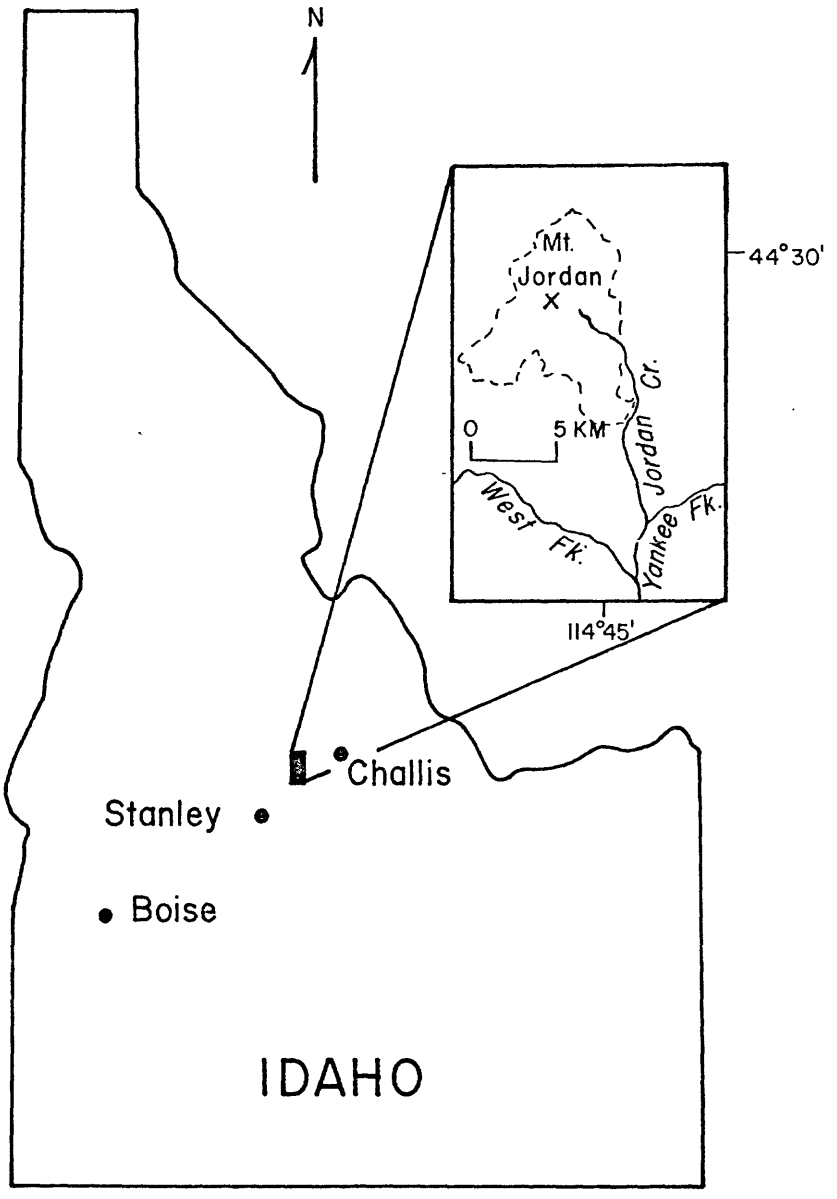
**Tii** Intermediate intrusive rock--Dark-green andesitic intrusive rock containing less than 10 percent phenocrysts of plagioclase (1-2 mm) and chloritized ferromagnesian minerals (0.5-1 mm). Border zones contain subangular xenoliths of unit Til

Til — Intermediate lavas--Purple, weathering into prominent outcrops; extensively autobrecciated, near-vent andesitic extrusive rocks. Map unit consists predominantly of nonvesicular lavas containing about 40 percent phenocrysts consisting of plagioclase (1-2 mm), pyroxene (1-2 mm), and hornblende (0.5-1 mm). Contains subordinate laharic debris and ash-flow and air-fall tuffs

Tcg — CONGLOMERATE (TERTIARY)--Boulder conglomerate locally overlying the unit Ki. The lower beds of the conglomerate contain well-rounded boulders and cobbles of units Ki and Pzs in clast-to-clast contact. Cobbles of unit Til gradually become dominant in the upper part of the conglomerate. Estimated thickness of conglomerate 30 m

Ki — IDAHO BATHOLITH (CRETACEOUS)--Massive, light-gray, medium-grained, equigranular biotite granite. Rock contains 35 percent quartz, 30 percent plagioclase, 25 percent alkali feldspar, and 10 percent biotite

Pzs — SEDIMENTARY ROCKS UNDIVIDED (PALEOZOIC)--Thinly bedded sedimentary rocks occurring as hornfelsed roof pendants in the unit Ki. Contains interbedded calc-silicate rocks, quartzite, and graphitic and pelitic schists




Index showing location of study area

Table 1.--Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho

[Fe, Mg, Ca, and Ti reported in percent; all other elements reported in ppm (parts per million). Number in parentheses indicates lower limit of determination for element; L, present but less than determination limit; --, not detected. Analyst: E. F. Cooley]

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 4 | Tbl | 5 | 2 | 3 | 1 | 1,000 | -- | -- | -- | 10 | 1,000 | 2 | -- | -- | 20 | 100 | 50 | 100 | 5 | 20 | 10 | 50 | -- | 20 | -- | 700 | 150 | -- | 50 | -- | 200 |
| 6a | Tlc | 2 | 0.1 | 0.5 | 0.15 | 200 | -- | -- | -- | 10 | 50 | 10 | -- | -- | -- | -- | 5 | 500 | 7 | 100 | 5 | 70 | -- | L | -- | -- | -- | -- | 100 | L | 700 |
| 6b | Tlc | 1.5 | 0.07 | 0.2 | 0.15 | 200 | -- | -- | -- | 10 | 20 | 5 | -- | -- | -- | -- | L | 150 | 5 | 70 | L | 70 | -- | L | -- | -- | -- | -- | 50 | -- | 500 |
| 7 | Tll | 5 | 1 | 0.5 | 1 | 700 | -- | -- | -- | 15 | 500 | 2 | -- | -- | 15 | -- | 10 | 70 | L | 50 | L | 50 | -- | 20 | -- | 200 | 150 | -- | 50 | L | 200 |
| 8 | Tlc | 2 | 0.1 | 0.1 | .15 | 200 | -- | -- | -- | 10 | 150 | 5 | -- | -- | -- | -- | L | 200 | L | 50 | L | 50 | -- | -- | -- | L | L | -- | 70 | -- | 300 |
| 9 | Tll | 5 | 3 | 5 | 0.7 | 1,500 | -- | -- | -- | 15 | 1,000 | 2 | -- | -- | 20 | 150 | 50 | 100 | 5 | 20 | 15 | 70 | -- | 20 | -- | L | 200 | -- | 50 | -- | 200 |
| 12 | Tll | 2 | 0.5 | 0.2 | 0.2 | 700 | L | -- | -- | 10 | 1,000 | 5 | -- | -- | -- | -- | 5 | 200 | L | 100 | L | 100 | -- | 5 | 15 | 200 | L | -- | 70 | -- | 700 |
| 13 | Tll | 2 | 1 | 0.2 | 0.5 | 500 | -- | -- | -- | 10 | 700 | 5 | -- | -- | 10 | 70 | 10 | 100 | L | L | 10 | 50 | -- | 15 | -- | 200 | 150 | -- | 20 | -- | 200 |
| 15 | Tdd | 5 | 2 | 2 | 1 | 1,000 | -- | -- | -- | 20 | 1,000 | 2 | -- | -- | 30 | L | 70 | 100 | L | 20 | 10 | 50 | -- | 20 | -- | 500 | 200 | -- | 50 | -- | 300 |
| 16 | Tlc | 3 | 0.05 | 0.05 | 0.1 | 300 | -- | -- | -- | 20 | 200 | 5 | -- | -- | -- | -- | 5 | 100 | L | 100 | L | 70 | -- | -- | -- | L | L | -- | 70 | L | 500 |
| 17 | Tlc | 2 | 0.05 | 0.2 | 0.15 | 200 | -- | -- | -- | 30 | 150 | 5 | -- | -- | -- | -- | L | 100 | 20 | 100 | L | 70 | -- | L | -- | -- | L | -- | 70 | -- | 700 |
| 19 | Tlc | 5 | 0.5 | 0.3 | 0.7 | 300 | -- | -- | -- | 10 | 1,000 | 2 | -- | -- | 10 | -- | 10 | 100 | 5 | 20 | L | 50 | -- | 15 | -- | 200 | 100 | -- | 30 | -- | 200 |
| 20 | Tll | 7 | 2 | 5 | 1 | 2,000 | -- | -- | -- | 20 | 1,000 | 2 | -- | -- | 30 | 50 | 50 | 100 | 10 | 20 | 10 | 70 | -- | 20 | -- | 1,000 | 200 | -- | 50 | -- | 300 |
| 21 | Tlc | 2 | 0.07 | 0.2 | 0.15 | 200 | -- | -- | -- | 10 | 20 | 3 | -- | -- | -- | -- | L | 100 | -- | 100 | L | 70 | -- | L | -- | -- | L | -- | 50 | -- | 500 |
| 22 | Kl | 3 | 1 | 2 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,000 | 2 | -- | -- | 10 | 50 | L | 100 | -- | 30 | 5 | 50 | -- | 10 | -- | 1,000 | 150 | -- | 20 | -- | 200 |
| 23 | Tll | 3 | 0.5 | 2 | 0.5 | 1,000 | -- | -- | -- | 15 | 3,000 | 3 | -- | -- | 10 | 50 | 7 | 150 | -- | 20 | 5 | 70 | -- | 10 | -- | 700 | 70 | -- | 20 | -- | 200 |
| 26 | Tlc | 1 | 0.1 | L | 0.15 | 200 | 0.7 | -- | -- | 10 | 5,000 | 3 | -- | -- | -- | -- | L | 50 | 15 | 70 | L | 20 | -- | 5 | -- | -- | L | -- | 50 | -- | 500 |
| 27 | Tat | 1 | 0.2 | 0.2 | 0.2 | 150 | -- | -- | -- | 10 | 700 | 5 | -- | -- | -- | -- | 5 | 50 | -- | L | 5 | 15 | -- | L | -- | 200 | 50 | -- | 10 | -- | 150 |
| 28 | Tll | 3 | 0.2 | 5 | 0.2 | 1,000 | -- | -- | -- | 10 | 1,500 | 3 | -- | -- | L | -- | 7 | 100 | 5 | L | L | 20 | -- | 10 | -- | 300 | 50 | -- | 30 | -- | 300 |
| 29 | Tlc | 2 | 0.1 | 0.2 | 0.15 | 150 | -- | -- | -- | 10 | 300 | 3 | -- | -- | -- | -- | 5 | 50 | 10 | 70 | L | 70 | -- | L | -- | L | 20 | -- | 50 | -- | 300 |
| 30b | Tbt | 7 | 2 | 5 | 0.7 | 1,500 | -- | -- | -- | 15 | 1,000 | 1 | -- | -- | 30 | 150 | 50 | 100 | 5 | 20 | 20 | 50 | -- | 20 | -- | 700 | 200 | -- | 30 | -- | 200 |
| 32 | Tlc | 2 | 0.15 | 0.2 | 0.15 | 150 | -- | -- | -- | 15 | 100 | 3 | -- | -- | -- | -- | 5 | 50 | 15 | 70 | L | 50 | -- | L | -- | -- | L | -- | 50 | -- | 500 |

Table 1.--Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho--Continued

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 35 | Tic | 1.5 | 0.02 | 0.05 | 0.1 | 300 | -- | -- | -- | 10 | 200 | 2 | -- | -- | L | -- | 20 | 70 | 20 | 50 | -- | 50 | -- | -- | -- | L | L | -- | 100 | -- | 500 |
| 37a | Tic | 1 | L | 0.05 | 0.1 | 200 | -- | -- | -- | 10 | 100 | 2 | -- | -- | L | -- | 5 | 100 | -- | 50 | -- | 100 | -- | -- | -- | -- | -- | -- | 100 | L | 300 |
| 38a | Tic | 3 | 0.2 | 0.2 | 0.2 | 700 | -- | -- | -- | 10 | 700 | 2 | -- | -- | -- | -- | 5 | 100 | 5 | 20 | -- | 50 | -- | 10 | -- | 200 | -- | -- | 50 | -- | 500 |
| 38b | Tic | 1 | 0.15 | 0.1 | 0.05 | 100 | -- | -- | -- | 15 | 200 | 5 | -- | -- | -- | -- | L | 50 | 50 | 30 | -- | 50 | -- | -- | -- | -- | -- | -- | 30 | -- | 200 |
| 38c | Tic | 1.5 | 0.02 | 0.1 | 0.1 | 200 | -- | -- | -- | 10 | 200 | 3 | -- | -- | -- | -- | 10 | 150 | 7 | 70 | -- | 70 | -- | -- | -- | -- | -- | -- | 100 | -- | 500 |
| 38d | Tic | 3 | 0.3 | 0.3 | 0.2 | 300 | -- | -- | -- | 10 | 2,000 | 2 | -- | -- | -- | -- | 10 | 150 | 5 | 20 | -- | 100 | -- | 10 | -- | 200 | 10 | -- | 50 | -- | 500 |
| 39 | Tic | 5 | 0.3 | 0.05 | 0.2 | 700 | L | -- | -- | 10 | 1,000 | 2 | -- | -- | -- | -- | 10 | 50 | 5 | 20 | -- | 50 | -- | 15 | -- | 200 | L | -- | 30 | -- | 500 |
| 40 | Tic | 1.5 | 0.02 | 0.05 | 0.15 | 100 | 2 | -- | -- | 10 | 300 | 2 | -- | -- | -- | -- | 15 | 50 | 30 | 20 | -- | 70 | -- | 5 | -- | L | L | -- | 50 | -- | 300 |
| 41 | Tic | 1 | 0.02 | 0.05 | 0.1 | 200 | -- | -- | -- | 10 | 100 | 2 | -- | -- | -- | L | 10 | 150 | -- | 50 | -- | 20 | -- | -- | -- | L | -- | -- | 50 | -- | 300 |
| 42 | Pzs | 0.7 | 1 | 5 | 0.15 | 700 | -- | -- | -- | 10 | 700 | 1.5 | -- | -- | L | 20 | L | 50 | -- | L | -- | 50 | -- | -- | -- | 200 | 50 | -- | 20 | -- | 500 |
| 43 | Tic | 1 | 0.1 | 0.07 | 0.1 | 150 | -- | -- | -- | 10 | 300 | 2 | -- | -- | -- | -- | 10 | 50 | 10 | 30 | -- | 50 | -- | 5 | -- | 200 | L | -- | 50 | -- | 300 |
| 47 | Til | 3 | 1 | 5 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,500 | 2 | -- | -- | 10 | 100 | 15 | 100 | -- | 20 | 10 | 70 | -- | 20 | -- | 1,000 | 150 | -- | 50 | -- | 500 |
| 49a | Tic | 1 | 0.1 | 20 | 0.07 | 200 | -- | -- | -- | 10 | 300 | 5 | -- | -- | -- | -- | L | 70 | L | L | -- | 20 | -- | 5 | -- | 200 | L | -- | 70 | -- | 100 |
| 49b | Tic | 5 | 0.15 | 0.5 | 0.3 | 500 | -- | -- | -- | 10 | 2,000 | 2 | -- | -- | -- | -- | 15 | 100 | 10 | 50 | -- | 50 | -- | 30 | -- | 200 | L | -- | 50 | -- | 500 |
| 50a | Pzs | 0.7 | 1 | 20 | 0.05 | 1,500 | -- | -- | -- | 10 | 100 | 1.5 | -- | -- | -- | -- | 10 | 50 | L | L | -- | 20 | -- | -- | -- | 500 | 50 | -- | 30 | -- | 500 |
| 50b | Tdd | 5 | 0.7 | 1 | 0.5 | 1,500 | -- | -- | -- | 10 | 1,500 | 2 | -- | -- | L | -- | L | 150 | L | 20 | -- | 50 | -- | 20 | -- | 500 | 20 | -- | 70 | -- | 300 |
| 51a | Ki | 2 | 1 | 2 | 0.5 | 1,000 | -- | -- | -- | 10 | 1,000 | 2 | -- | -- | 10 | -- | 10 | 150 | L | 20 | L | 30 | -- | 15 | -- | 700 | 100 | -- | 20 | -- | 150 |
| 51b | Ki | 7 | 0.7 | 0.3 | 0.5 | 1,000 | -- | 5,000 | -- | 50 | 500 | 3 | 10 | -- | 10 | 20 | 100 | 150 | 30 | 20 | L | 30 | -- | 15 | 70 | 300 | 100 | L | 50 | -- | 100 |
| 52a | Tdd | 7 | 1 | 0.5 | 0.7 | 1,000 | -- | -- | -- | 10 | 700 | 2 | -- | -- | 15 | 20 | 20 | 150 | 7 | 20 | -- | 50 | -- | 20 | 20 | 200 | 50 | -- | 50 | L | 300 |
| 52b | Tic | 1.5 | 0.02 | 0.3 | 0.1 | 300 | -- | -- | -- | 10 | 200 | 2 | -- | -- | -- | -- | L | 100 | 10 | 20 | -- | 50 | -- | L | -- | -- | -- | -- | 50 | -- | 200 |
| 52c | Tic | 5 | 0.5 | 5 | 0.7 | 1,500 | -- | -- | -- | 10 | 700 | 2 | -- | -- | 10 | -- | 20 | 150 | 20 | 20 | -- | 20 | -- | 20 | L | 300 | 50 | -- | 70 | L | 300 |
| 53 | Tcg | 1.5 | 0.7 | 1 | 0.2 | 100 | 0.5 | -- | -- | 10 | 700 | 2 | -- | -- | 10 | 70 | L | 100 | -- | L | 15 | 150 | -- | 10 | -- | 700 | 50 | -- | 10 | 500 | 150 |
| 56 | Ki | 15 | 1 | 1 | 0.2 | 5,000 | -- | -- | -- | 50 | 200 | 5 | -- | -- | L | 5 | 50 | 150 | 50 | 20 | L | 30 | -- | 20 | -- | 200 | 100 | -- | 70 | L | 150 |

Table 1.--Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho--Continued

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 57a | Kt | 5 | 1 | 0.3 | 0.5 | 700 | 15 | -- | -- | 50 | 700 | 3 | 50 | -- | 20 | 200 | 200 | 150 | 15 | 20 | 5 | -- | 15 | 15 | 30 | 200 | 100 | L | 20 | -- | 200 |
| 57b | Tlc | 1 | 0.02 | 0.05 | 0.1 | 200 | -- | -- | -- | I | 200 | 2 | -- | -- | -- | L | L | 50 | L | 20 | L | -- | L | L | -- | L | L | -- | 30 | -- | 200 |
| 57c | Kt | 2 | 0.7 | 0.5 | 0.5 | 500 | -- | -- | -- | 10 | 700 | 2 | -- | -- | 10 | 30 | 30 | 100 | L | L | L | -- | 10 | 10 | -- | 500 | 100 | -- | 20 | -- | 200 |
| 59 | Tlc | 1 | 0.02 | 0.15 | 0.1 | 150 | -- | -- | -- | L | 500 | 2 | -- | -- | -- | L | 5 | 150 | 5 | 50 | -- | -- | -- | -- | -- | 200 | L | -- | 70 | -- | 500 |
| 59a | Tlc | 1 | 0.02 | 0.1 | 0.1 | 150 | -- | -- | -- | L | 300 | 3 | -- | -- | -- | L | 7 | 70 | L | 50 | -- | -- | -- | -- | -- | 200 | L | -- | 20 | -- | 300 |
| 59b | Tvt | 2 | 0.7 | 2 | 0.5 | 700 | -- | -- | -- | L | 200 | 2 | -- | -- | 10 | L | L | 100 | -- | L | -- | -- | 15 | 15 | -- | 700 | 100 | -- | 30 | -- | 200 |
| 61 | Kt | 2 | 0.5 | 0.2 | 0.2 | 200 | 0.7 | -- | -- | 10 | 700 | 1.5 | -- | -- | L | 10 | 20 | 70 | 150 | L | 5 | 20 | -- | 10 | -- | 200 | 70 | -- | 20 | -- | 100 |
| 63 | Tvt | 3 | 1 | 1.5 | 0.5 | 500 | -- | -- | -- | L | 700 | 1.5 | -- | -- | 20 | 50 | 50 | 70 | -- | L | 10 | 20 | -- | 15 | -- | 700 | 100 | -- | 20 | -- | 100 |
| 64 | Tlc | 5 | 0.7 | 1.5 | 0.7 | 700 | 0.5 | -- | -- | 10 | 1,500 | 1 | -- | -- | 15 | -- | 150 | 150 | 15 | 20 | -- | 20 | -- | 20 | -- | 700 | 50 | -- | 50 | -- | 300 |
| 65 | Tlc | 5 | 0.7 | 1.5 | 0.5 | 700 | -- | -- | -- | 10 | 700 | 1 | -- | -- | 15 | -- | 20 | 150 | 7 | 20 | -- | 20 | -- | 20 | -- | 700 | 50 | -- | 50 | -- | 300 |
| 66a | Tbn | 3 | 0.3 | 1 | 0.2 | 500 | -- | -- | -- | L | 1,500 | 1.5 | -- | -- | L | -- | L | 100 | -- | L | L | 70 | -- | 10 | -- | 700 | 20 | -- | 20 | -- | 200 |
| 66b | Tbn | 2 | 0.5 | 2 | 0.2 | 500 | -- | -- | -- | L | 1,000 | 2 | -- | -- | L | -- | -- | 100 | -- | L | L | 70 | -- | 7 | -- | 700 | 30 | -- | 20 | -- | 200 |
| 67 | Tbn | 2 | 0.3 | 2 | 0.15 | 700 | -- | -- | -- | 10 | 1,000 | 1.5 | -- | -- | L | -- | -- | 70 | -- | L | L | 70 | -- | 5 | -- | 700 | 20 | -- | 20 | -- | 150 |
| 68 | Tbn | 2 | 1 | 2 | 0.3 | 1,000 | -- | -- | -- | L | 1,000 | 1.5 | -- | -- | 15 | 10 | 15 | 100 | -- | L | L | 70 | -- | 15 | -- | 700 | 100 | -- | 20 | -- | 150 |
| 70 | Tcg | 3 | 1 | 0.7 | 0.5 | 500 | -- | -- | -- | 100 | 700 | 2 | -- | -- | 20 | 150 | 50 | 100 | 7 | L | 70 | 20 | -- | 20 | -- | 300 | 300 | -- | 30 | -- | 200 |
| 71 | Tat | 2 | 1 | 1 | 0.5 | 700 | -- | -- | -- | 10 | 700 | 1.5 | -- | -- | 15 | 70 | 15 | 100 | L | L | 50 | 50 | -- | 15 | -- | 500 | 100 | -- | 20 | -- | 200 |
| 72 | Tbt | 5 | 2 | 3 | 0.5 | 1,000 | -- | -- | -- | 10 | 700 | 1 | -- | -- | 20 | 50 | 20 | 100 | L | L | 5 | 20 | -- | 20 | -- | 700 | 200 | -- | 30 | -- | 150 |
| 76 | Tlp | 1 | 0.3 | 1 | 0.3 | 500 | -- | -- | -- | L | 1,000 | 1.5 | -- | -- | L | -- | L | 100 | -- | L | L | 20 | -- | 5 | -- | 500 | 30 | -- | 20 | -- | 100 |
| 77 | Kt | 2 | 0.5 | 2 | 0.3 | 500 | -- | -- | -- | L | 1,500 | 1.5 | -- | -- | L | -- | L | 100 | -- | L | L | 20 | -- | 5 | -- | 1,000 | 50 | -- | 20 | -- | 300 |
| 78 | Tlc | 1.5 | 0.07 | 0.05 | 0.15 | 150 | -- | -- | -- | L | 700 | 2 | -- | -- | L | -- | L | 70 | 5 | 50 | L | 50 | -- | L | -- | 200 | 10 | -- | 50 | -- | 300 |
| 79 | Tlp | 3 | 1 | 1.5 | 0.5 | 700 | -- | -- | -- | L | 700 | 2 | -- | -- | 10 | 70 | 10 | 100 | -- | L | 10 | 50 | -- | 15 | -- | 700 | 100 | -- | 30 | -- | 200 |
| 80 | Tlc | 2 | 0.1 | 0.7 | 0.2 | 500 | -- | -- | -- | 10 | 1,000 | 3 | -- | -- | -- | -- | 10 | 200 | L | 50 | -- | 50 | -- | 5 | -- | 200 | L | -- | 70 | -- | 500 |
| 81 | Tcg | 5 | 1.5 | 1 | 0.7 | 1,000 | -- | -- | -- | 50 | 1,500 | 2 | -- | -- | 30 | 200 | 50 | 150 | 7 | 20 | 30 | 20 | -- | 20 | -- | 700 | 200 | -- | 50 | -- | 300 |

Table 1.—Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho—Continued

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 85 | Tat | 3 | 0.5 | 1 | 0.5 | 700 | -- | -- | -- | 10 | 1,500 | 2 | -- | -- | 10 | 30 | 5 | 150 | -- | 20 | -- | 70 | -- | 10 | -- | 700 | 70 | -- | 30 | -- | 300 |
| 86 | Til | 10 | 2 | 5 | 0.7 | 2,000 | -- | -- | -- | 20 | 2,000 | 1 | -- | -- | 30 | 100 | 50 | 150 | 5 | 20 | L | 50 | -- | 30 | -- | 1,000 | 200 | -- | 50 | -- | 500 |
| 87 | Tlc | 2 | 0.05 | 0.1 | 0.15 | 150 | -- | -- | -- | 10 | 200 | 3 | -- | -- | -- | -- | L | 70 | 5 | 70 | -- | 50 | -- | 5 | -- | -- | L | -- | 50 | -- | 500 |
| 89 | Tlc | 2 | 0.1 | 0.2 | 0.1 | 150 | 1 | -- | -- | 10 | 150 | 3 | -- | -- | -- | -- | 15 | 50 | 5 | 100 | -- | 100 | -- | 5 | -- | -- | L | -- | 150 | -- | 500 |
| 91 | Tlc | 2 | 0.3 | 0.2 | 0.2 | 500 | -- | -- | -- | 10 | 1,000 | 5 | -- | -- | -- | 20 | 7 | 150 | 5 | L | -- | 70 | -- | 10 | -- | 100 | 20 | -- | 30 | -- | 200 |
| 92 | Tat | 3 | 0.2 | 2 | 0.2 | 700 | -- | -- | -- | 10 | 500 | 5 | -- | -- | -- | -- | L | 200 | -- | 50 | -- | 70 | -- | 5 | -- | 200 | 20 | -- | 50 | -- | 500 |
| 96 | Til | 5 | 2 | 5 | 1 | 1,000 | -- | -- | -- | 20 | 1,000 | 1.5 | -- | -- | 30 | 200 | 50 | 100 | 5 | L | 50 | 70 | -- | 30 | -- | 1,000 | 200 | -- | 30 | -- | 200 |
| 97 | Tlc | 2 | 0.2 | 0.2 | 0.15 | 500 | -- | -- | -- | 10 | 200 | 5 | -- | -- | -- | -- | 10 | 150 | L | 30 | -- | 70 | -- | 10 | -- | -- | L | -- | 50 | -- | 300 |
| 98 | Tlc | 2 | 0.1 | 0.5 | 0.15 | 700 | -- | -- | -- | 10 | 700 | 5 | -- | -- | -- | -- | 5 | 200 | -- | 50 | -- | 70 | -- | L | -- | -- | L | -- | 70 | L | 300 |
| 100 | Tlc | 2 | 0.1 | 0.05 | 0.15 | 150 | -- | -- | -- | 10 | 700 | 3 | -- | -- | -- | -- | 10 | 50 | 20 | 70 | -- | 70 | -- | L | -- | -- | L | -- | 70 | -- | 500 |
| 101 | Tlc | 2 | 0.2 | 0.05 | 0.15 | 150 | -- | -- | -- | 10 | 500 | 3 | -- | -- | -- | -- | 7 | 50 | 30 | 70 | -- | 50 | -- | L | -- | -- | L | -- | 70 | -- | 500 |
| 102a | Til | 5 | 2 | 7 | 0.7 | 1,000 | -- | -- | -- | 10 | 1,500 | 2 | -- | -- | 20 | 30 | 20 | 150 | -- | L | 10 | 100 | -- | 20 | -- | 700 | 150 | -- | 50 | -- | 200 |
| 102b | Til | 5 | 2 | 2 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,500 | 2 | -- | -- | 20 | 70 | 20 | 150 | -- | L | 15 | 100 | -- | 20 | -- | 700 | 200 | -- | 50 | -- | 200 |
| 103 | Tlc | 1.5 | 0.2 | 0.05 | 0.1 | 150 | 1 | -- | -- | 20 | 150 | 1 | -- | -- | -- | 20 | 10 | 50 | 50 | L | 5 | 20 | -- | L | -- | -- | 1,000 | -- | 10 | -- | 50 |
| 103a | Tlc | 2 | 0.15 | 0.1 | 0.2 | 1,000 | -- | -- | -- | 10 | 100 | 3 | -- | -- | -- | -- | L | 150 | -- | 70 | 5 | 70 | -- | 5 | -- | L | -- | -- | 70 | -- | 500 |
| 103b | Tlc | 1.5 | 0.02 | 0.2 | 0.07 | 500 | -- | -- | -- | 10 | 100 | 2 | -- | -- | -- | -- | L | 70 | L | 50 | -- | 50 | -- | L | -- | -- | -- | -- | 50 | -- | 200 |
| 103c | Tlc | 2 | 0.1 | 0.7 | 0.15 | 700 | -- | -- | -- | 20 | 50 | 5 | -- | -- | -- | -- | L | 150 | L | 70 | -- | 100 | -- | L | -- | -- | -- | -- | 100 | -- | 500 |
| 103d | Tlc | 2 | 0.1 | 0.3 | 0.15 | 500 | -- | -- | -- | 10 | 50 | 5 | -- | -- | -- | -- | L | 300 | L | 50 | -- | 70 | -- | L | -- | -- | -- | -- | 100 | -- | 300 |
| 103e | Tlc | 2 | 0.1 | 0.7 | 0.2 | 500 | -- | -- | -- | 10 | 50 | 5 | -- | -- | -- | -- | L | 200 | L | 50 | -- | 70 | -- | L | -- | -- | -- | -- | 100 | -- | 500 |
| 104a | Tlc | 3 | 0.1 | 0.7 | 0.2 | 500 | -- | -- | -- | 10 | 30 | 5 | -- | -- | -- | -- | 20 | 200 | L | 50 | -- | 70 | -- | L | -- | -- | -- | -- | 100 | -- | 500 |
| 104b | Tlc | 2 | 0.1 | 0.2 | 0.15 | 300 | -- | -- | -- | 10 | 20 | 3 | -- | -- | -- | -- | L | 150 | -- | 70 | -- | 70 | -- | L | -- | L | -- | -- | 100 | -- | 500 |
| 105 | Tlc | 1 | 0.05 | 0.2 | 0.1 | 150 | -- | -- | -- | 20 | 200 | 2 | -- | -- | -- | -- | L | 200 | 10 | 50 | -- | 50 | -- | -- | -- | -- | -- | -- | 50 | -- | 300 |
| 106 | Tlc | 1 | 0.05 | 0.15 | 0.15 | 100 | -- | -- | -- | 20 | 300 | 3 | -- | -- | -- | -- | 10 | 100 | 100 | 50 | -- | 150 | -- | -- | -- | -- | -- | -- | 70 | -- | 300 |

Table 1.--Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho--Continued

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 107 | Tlc | 2 | 0.1 | 0.05 | 0.2 | 200 | -- | -- | -- | 30 | 150 | 5 | -- | -- | -- | -- | 10 | 70 | 50 | 100 | -- | 50 | -- | -- | -- | -- | -- | -- | 70 | -- | 300 |
| 109a | Tll | 10 | 2 | 7 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,500 | 1 | -- | -- | 50 | 150 | 15 | 150 | L | 20 | 10 | 50 | -- | 50 | -- | 1,000 | 200 | -- | 50 | -- | 300 |
| 109b | Tlc | 3 | 0.5 | 0.7 | 0.2 | 700 | 1 | -- | -- | 10 | 1,000 | 1 | -- | -- | L | -- | 15 | 150 | -- | 70 | -- | 200 | -- | 5 | -- | 200 | 20 | -- | 100 | 200 | 500 |
| 109c | Tlc | 7 | 2 | 10 | 1 | 1,500 | -- | -- | -- | 20 | 1,500 | 1 | -- | -- | 30 | 100 | 10 | 100 | -- | 20 | L | 50 | -- | 50 | -- | 1,000 | 300 | -- | 50 | -- | 300 |
| 109d | Tlc | 3 | 0.3 | 0.1 | 0.3 | 70 | -- | -- | -- | 10 | 1,500 | 2 | -- | -- | L | -- | L | 150 | -- | 70 | -- | 50 | -- | 15 | -- | 200 | 10 | -- | 70 | -- | 700 |
| 110a | Tlc | 2 | 0.15 | 0.2 | 0.15 | 500 | 2 | -- | -- | 10 | 300 | 3 | -- | -- | -- | -- | 100 | 200 | L | 70 | -- | 200 | -- | -- | -- | -- | L | -- | 70 | L | 700 |
| 110b | Tlc | 3 | 0.2 | 0.15 | 0.2 | 700 | -- | -- | -- | 20 | 300 | 3 | -- | -- | -- | -- | 10 | 200 | L | 100 | -- | 50 | -- | L | -- | -- | L | -- | 100 | L | 700 |
| 110c | Tlc | 3 | 0.2 | 0.1 | 0.15 | 700 | -- | -- | -- | 20 | 100 | 5 | -- | -- | -- | -- | 5 | 200 | 10 | 100 | -- | 50 | -- | 5 | -- | -- | L | -- | 100 | 200 | 700 |
| 110d | Tlc | 3 | 0.2 | 0.2 | 0.2 | 300 | -- | -- | -- | 20 | 150 | 5 | -- | -- | L | -- | L | 200 | 10 | 100 | -- | 30 | -- | 5 | -- | -- | L | -- | 100 | L | 700 |
| 110e | Tlc | 3 | 0.2 | 0.5 | 0.15 | 700 | -- | -- | -- | 20 | 150 | 5 | -- | -- | -- | -- | L | 200 | L | 100 | -- | 50 | -- | 5 | -- | -- | L | -- | 100 | L | 700 |
| 110f | Tll | 7 | 2 | 5 | 1 | 1,000 | -- | -- | -- | 20 | 1,000 | 2 | -- | -- | 30 | 150 | 50 | 100 | 5 | 20 | 10 | 70 | -- | 30 | -- | 1,000 | 200 | -- | 50 | -- | 300 |
| 110g | Pzs | 2 | 1.5 | 7 | 0.2 | 1,000 | -- | -- | -- | 20 | 1,000 | 2 | -- | -- | 5 | 70 | L | 50 | -- | L | 15 | 20 | -- | 15 | -- | 200 | 150 | -- | 50 | -- | 300 |
| 110h | Kt | 3 | 1.5 | 2 | 0.7 | 1,000 | -- | -- | -- | 15 | 1,000 | 2 | -- | -- | 5 | 30 | L | 150 | -- | 30 | -- | 50 | -- | 15 | -- | 2,000 | 100 | -- | 20 | -- | 200 |
| 110i | Tlc | 2 | 0.1 | 0.05 | 0.1 | 500 | -- | -- | -- | 20 | 700 | 3 | -- | -- | -- | -- | 200 | 150 | L | 100 | L | 100 | -- | L | -- | 100 | L | -- | 70 | 200 | 500 |
| 110j | Tlc | 2 | 0.15 | 0.15 | 0.15 | 500 | -- | -- | -- | 20 | 200 | 3 | -- | -- | -- | -- | L | 200 | -- | 100 | -- | 50 | -- | L | -- | -- | L | -- | 100 | -- | 700 |
| 110k | Tll | 10 | 0.2 | 10 | 0.7 | 2,000 | -- | -- | -- | 15 | 1,500 | -- | -- | -- | 20 | 200 | 70 | 100 | 5 | L | 10 | 70 | -- | 50 | -- | 2,000 | 300 | -- | 50 | -- | 200 |
| 110l | Tlc | 3 | 0.15 | 0.1 | 0.15 | 300 | -- | -- | -- | 20 | 500 | 2 | -- | -- | -- | -- | 5 | 200 | -- | 100 | -- | 70 | -- | L | -- | L | -- | -- | 20 | -- | 700 |
| 110m | Tat | 3 | 0.5 | 0.7 | 0.3 | 700 | -- | -- | -- | 15 | 1,500 | 2 | -- | -- | 5 | 20 | 5 | 100 | -- | L | L | 70 | -- | 10 | -- | 500 | 50 | -- | 70 | -- | 300 |
| 111 | Tdd | 10 | 0.5 | 0.5 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,500 | 3 | -- | -- | 10 | -- | 10 | 100 | 10 | 50 | -- | 70 | -- | 20 | -- | 500 | L | -- | 50 | -- | 500 |
| 112a | Tlc | 2 | 0.3 | 0.5 | 0.1 | 500 | -- | -- | -- | 20 | 1,000 | 3 | -- | -- | -- | -- | 20 | 150 | L | 100 | -- | 100 | -- | -- | -- | 200 | L | -- | 70 | 500 | 500 |
| 112b | Tll | 7 | 2 | 7 | 1 | 1,500 | -- | -- | -- | 20 | 1,000 | 3 | -- | -- | 20 | 100 | 20 | 150 | 5 | 50 | 10 | 100 | -- | 30 | -- | 700 | 200 | -- | 100 | -- | 300 |
| 112c | Tlc | 7 | 0.2 | 0.15 | 0.15 | 200 | 20 | -- | -- | 20 | 1,000 | 2 | -- | -- | L | L | 1,500 | 150 | 10 | 100 | -- | 10,000 | -- | L | -- | 200 | 20 | -- | 100 | 300 | 300 |
| 112d | Tlc | 3 | 0.2 | 0.15 | 0.15 | 1,000 | 50 | -- | -- | 20 | 700 | 3 | -- | 20 | 10 | -- | 20,000 | 150 | 30 | 70 | -- | 20,000 | -- | L | -- | 200 | 20 | -- | 100 | 5,000 | 300 |

Table 1.--Semiquantitative spectrographic analytical results of rock samples, Mt. Jordan and vicinity, Idaho--Continued

| Sample No. | Unit | Elements | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fe (0.05) | Mg (0.02) | Ca (0.05) | Ti (0.002) | Mn (10) | Ag (0.5) | As (200) | Au (10) | B (10) | Ba (20) | Be (1) | Bi (10) | Cd (20) | Co (5) | Cr (10) | Cu (5) | La (20) | Mo (5) | Nb (20) | Ni (5) | Pb (10) | Sb (100) | Sc (5) | Sn (10) | Sr (100) | V (10) | W (50) | Y (10) | Zn (200) | Zr (10) |
| 113 | Tat | 3 | 0.5 | 3 | 0.3 | 1,000 | -- | -- | -- | 20 | 3,000 | 3 | -- | -- | L | -- | 30 | 150 | -- | 50 | -- | 100 | -- | 10 | -- | 500 | 20 | -- | 70 | -- | 500 |
| 114 | Tat | 5 | 0.5 | 5 | 0.3 | 700 | -- | -- | -- | 20 | 1,000 | 3 | -- | -- | L | L | 5 | 150 | -- | 50 | -- | 70 | -- | 10 | -- | 700 | 20 | -- | 70 | -- | 500 |
| 115a | Tic | 2 | 0.05 | 0.2 | 0.15 | 700 | -- | -- | -- | 15 | 300 | 2 | -- | -- | -- | -- | 20 | 200 | -- | 70 | -- | 200 | -- | L | -- | L | L | -- | 70 | -- | 700 |
| 115b | Tat | 7 | 1.5 | 0.7 | 1 | 1,000 | -- | -- | -- | 20 | 1,500 | 3 | -- | -- | 20 | 150 | L | 150 | 10 | 20 | 20 | 50 | -- | 30 | -- | 500 | 200 | -- | 70 | -- | 200 |
| 115c | Tic | 1.5 | 0.02 | L | 0.5 | 150 | -- | -- | -- | 10 | 20 | 2 | -- | -- | L | -- | L | 150 | -- | 50 | -- | 50 | -- | -- | -- | -- | L | -- | 70 | -- | 200 |
| 115d | Tic | 3 | 0.1 | 0.1 | 0.15 | 500 | -- | -- | -- | 10 | 150 | 3 | -- | -- | -- | 10 | 7 | 150 | -- | 70 | -- | 100 | -- | -- | -- | L | -- | -- | 100 | -- | 500 |
| 116 | Tii | 5 | 2 | 5 | 0.7 | 1,000 | -- | -- | -- | 20 | 1,000 | 1 | -- | -- | 30 | 150 | 20 | 100 | L | 20 | 20 | 70 | -- | 50 | -- | 1,500 | 200 | -- | 50 | -- | 300 |
| 117 | Tic | 1.5 | 0.2 | 5 | 0.15 | 200 | -- | -- | -- | 10 | 700 | 3 | -- | -- | L | -- | 5 | 500 | -- | 50 | -- | 50 | -- | L | -- | 100 | 20 | -- | 70 | -- | 500 |
| 118 | Tii | 2 | 0.5 | G20 | 0.2 | 500 | -- | -- | -- | L | 100 | 2 | -- | -- | 10 | 50 | 5 | 70 | -- | L | L | 10 | -- | 20 | -- | 1,000 | 150 | -- | 50 | -- | 100 |
| 120a | Tdd | 5 | 0.5 | 0.1 | 0.5 | 1,500 | 0.5 | -- | -- | 20 | 1,500 | 2 | -- | -- | 5 | -- | 150 | 100 | -- | 50 | -- | 300 | -- | 20 | -- | 300 | 20 | -- | 70 | -- | 500 |
| 120b | Tdd | 5 | 0.5 | 0.5 | 0.7 | 1,500 | -- | -- | -- | 20 | 1,500 | 3 | -- | -- | 10 | -- | 15 | 100 | -- | 30 | -- | 70 | -- | 20 | -- | 500 | 50 | -- | 70 | -- | 500 |
| 120c | Tdd | 5 | 0.7 | 0.7 | 0.7 | 2,000 | -- | -- | -- | 20 | 1,500 | 3 | -- | -- | 10 | -- | 15 | 200 | L | 20 | -- | 100 | -- | 20 | -- | 500 | 50 | -- | 70 | -- | 500 |
| 121 | Tic | 0.7 | 0.02 | 0.05 | 0.05 | 100 | -- | -- | -- | 10 | 500 | 3 | -- | -- | L | -- | L | 30 | 10 | 70 | -- | 50 | -- | -- | -- | -- | L | -- | 50 | -- | 300 |