UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results, geochemical signatures, mineralogical data, and sample locality map of placer gold and heavy-mineral concentrates from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

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INTRODUCTION

Geochemical studies of Alaskan gold deposits were begun in 1984 as a joint study by the U.S. Geological Survey and the State of Alaska Division of Geological and Geophysical Surveys. The objectives of the study are (1) to characterize the deposits, (2) to determine relationships of gold in placer deposits to possible lode sources, (3) to identify possible sources of gold in placer deposits, (4) to study processes of placer formation, (5) to contribute to existing knowledge of the principles of prospecting for placer deposits, and (6) to determine if minerals associated with placer deposits might suggest economic deposits of other metals. The purpose of this report is to release both the analytical data and gold signatures for placer gold and also the analytical data and mineralogy of the nonmagnetic fraction of the heavy-mineral-concentrate samples from placer gold samples. Gold signatures comprise the alloy proportions and ratios of gold, silver, and copper, and the content of trace elements (Antweiler and Campbell, 1976).

SAMPLING AND ANALYTICAL PROCEDURE

Placer gold samples and associated heavy-mineral concentrates from stream-sediment samples were obtained from most of the active claims in the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts. At some localities, miners very generously provided us with ample amounts of gold for analysis. To determine whether differences in composition could be correlated with physical attributes, these samples were handled in various ways. Some were sieved into two or more size ranges; others were separated by color; and some were separated on the basis of physical characteristics, e.g., rounded, angular, blocky, delicate, etc. Self-explanatory, descriptive information is included in the analytical tables. Where no descriptive information is provided, the samples were generally small, and no sorting of individual grains was attempted prior to analysis.

A total of 404 emission spectrographic analyses using a technique described by Mosier (1975) were made on placer gold (table 1) from 45 mines and prospects. These are the numbered sites on the sample location map (fig. 1) and correspond to the locality index (table 1). Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides, graphite, and 99.999 percent metallic gold. Pure Al_2O_3 was added to the standards and samples as a codistillation agent. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. Standard concentrations are based on a 5-mg gold sample weight. Because of the nature of native gold, it is often difficult to weigh exact 5-mg samples and in many incidences there is less than 5-mg of gold available for analysis. Therefore, the reported concentration values (table 2) are corrected to reflect a 5-mg sample weight by the following formula:

$$\text{reported concentration value} = \text{determined value} \times \frac{5}{\text{sample weight}} .$$

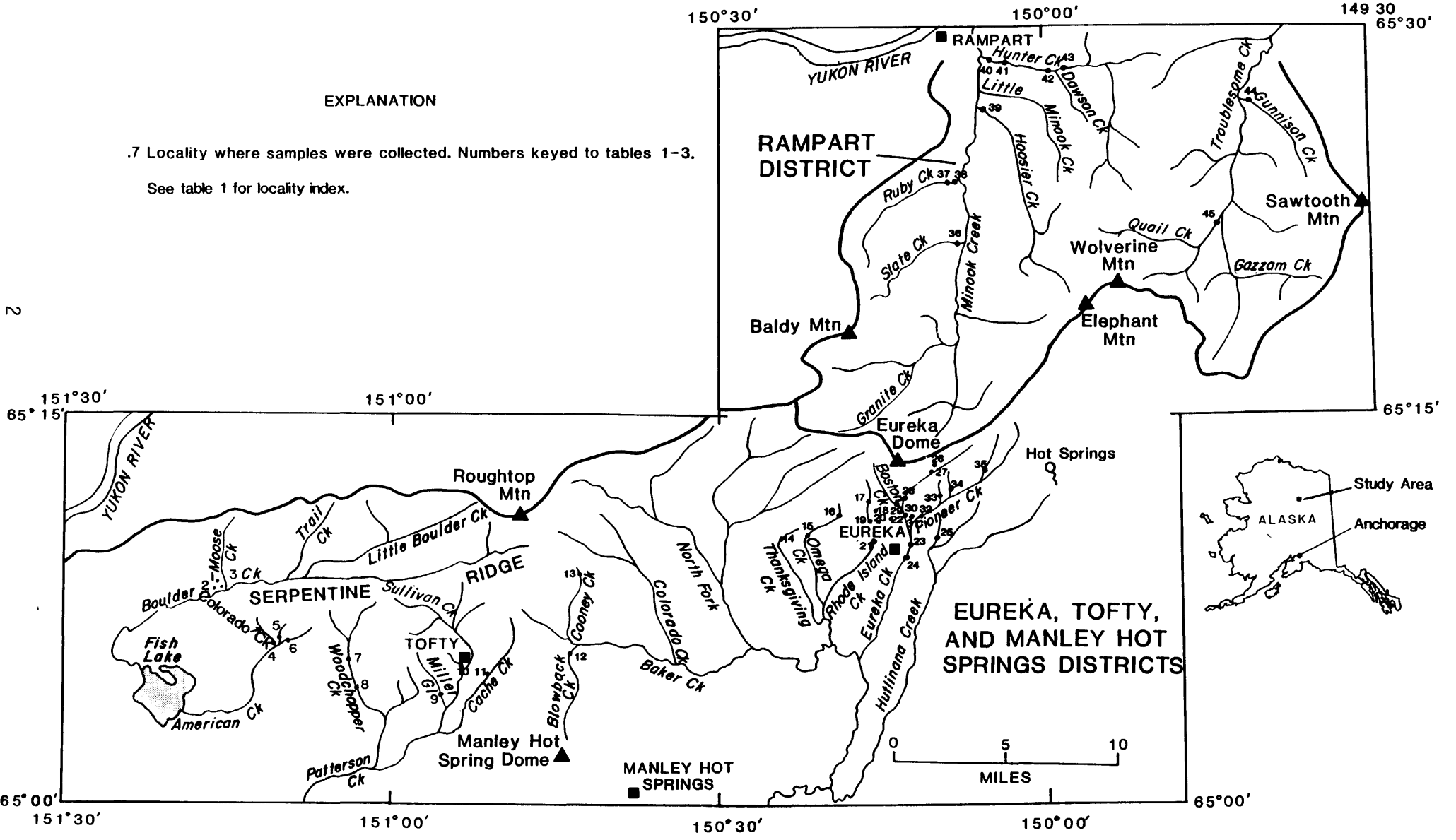

Figure 1.--Localities of samples from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

The trace-element content of natural gold varies greatly from grain to grain as well as from deposit to deposit and this creates a problem in determining the precision of the analytical technique. However, studies using artificial melts show that the precision of the analytical method far exceeds the natural variance of trace elements in native gold (Mosier, 1975).

Heavy-mineral-concentrate samples were obtained at most sites by wet-sieving stream sediment through a stainless-steel screen with a mesh opening of 2 mm into a 14-in steel gold pan and by panning the minus-10-mesh material. In the laboratory, the panned concentrate was air dried and sieved through a 30-mesh (0.8-mm) sieve to remove most of the rock-forming minerals. The minus-30-mesh fraction was further separated using bromoform to remove the remaining minerals of a specific gravity less than 2.85. A nonmagnetic fraction of each sample was obtained using a Frantz Electromagnetic Separator with equivalent settings of 0.7 ampere and track settings of 5° forward slope and 10° side tilt. Relatively nonmagnetic fractions free of the dilutant minerals, magnetic iron oxides, garnet, amphibole, pyroxene, epidote, and other high-iron/low magnesium silicates were obtained by this procedure.

The nonmagnetic fraction of the heavy-mineral-concentrate samples were analyzed for 31 elements (table 3) using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). As with the analytical method for gold, spectrographic results were obtained by visual comparison of spectra derived from sample against spectra obtained from standards made from pure oxides and carbonates with the same geometrical spacing of concentrations. The precision of the analytical method for the nonmagnetic fraction is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976).

The nonmagnetic heavy-mineral fraction was scanned visually using a binocular microscope and shortwave ultraviolet light to identify ore-related minerals (table 4). In most cases, the mineral grains could be identified from their physical properties, but x-ray diffraction was used to confirm some species. This visual examination is an important supplement to the spectrographic analyses because the particulate nature of this sample medium poses problems for both the sample preparer and the analyst. A 5-mg split of finely pulverized sample is normally used for the spectrographic analysis, consequently, malleable minerals such as gold, silver, and copper may be poorly represented in the sample. Another benefit of the visual examination is identifying artifacts such as bullet and solder fragments, wire, or other man-made contaminants. It is useful to be aware of these contaminants as they can give inflated values of the ore-related elements in the spectrographic results. The mineralogical data for the heavy-mineral-concentrate samples is found in table 4.

RELIABILITY OF GOLD ANALYSES

Differences in the composition of native gold from different geological settings can readily be distinguished using the analytical procedure mentioned above if enough analyses are made to ascertain the magnitude of natural variations in gold samples. In this study five or more spectrographic analyses were found desirable for a single sample site to obtain a signature in which one can place confidence. However, in the context of many other analyses from this district, a single analysis is of value, and three analyses at a sample site are enough.

The composition of native gold varies considerably (for example, see Gay, 1963; Jones and Fleischer, 1969). Variations in composition are present even from point to point within the same grain (Desborough, 1970). Native gold in oxidized zones and in associated placers generally contains lesser amounts of silver and other elements compared with the native gold in the corresponding primary deposits; within some specific deposits, single particles of native gold are relatively homogeneous, but in other deposits the native gold is heterogeneous (Boyle, 1979). Because variations in gold composition are natural rather than analytical, they are worthy of study, particularly so their significance can be understood. In spite of the variations, gold compositional data are useful in that they help characterize conditions of ore deposition and are commonly locally distinctive for mines, districts, or regions. Moreover, they are useful in determining the relationships of gold in placer deposits to possible lode sources, and in meeting the other objectives stated in the introductory section of this report.

The natural variability of analyses for Ag and Cu in gold from a single locality was determined by repeatedly analyzing portions of single nuggets (Mosier, 1975; Antweiler and Campbell, 1987). They found silver content of one such nugget ranged from 4.7 to 8.1 percent in four analyses with a standard deviation of ±1.6 percent and the copper content of this nugget ranged from .048 to .08 percent with a standard deviation of ±.0144 percent. Replicate analyses of portions of another nugget from the same locality showed silver content of 18.9 to 19.8 percent with a standard deviation of ±0.56 percent and copper content .038 to .055 percent with a standard deviation of ±.012 percent. Such analytical results indicated considerable natural variability. Another nugget from the same locality was washed with hydrofluoric acid to remove surface coatings, then heated to 1300 °C for 30 minutes to homogenize silver and copper content. Analysis of ten 5-mg portions of that nugget each time showed excellent precision; 10 percent silver, (S.D.=0) and 0.05 percent copper (S.D.=0). Prior to acid washing and heat treating, ten 5-mg portions ranged in silver content from 1.5 to 15 percent and in copper content from .015 to .05 percent indicating their natural variation (Mosier, 1975). The concentration of other elements in nuggets from the locality ranged somewhat more widely than copper and silver, even after the homogenization treatment. Significantly, however, the mean values for most elements, including copper and silver, were almost the same on 10 analyses of the natural sample as the mean values for those elements on the homogenized sample, except for elements removed by the acid and heat treatment.

Accuracy is much more difficult to determine than precision because homogeneous gold samples with known amounts of impurities are not readily available. However, standards prepared with known amounts of copper and silver show the method to be accurate within a factor of two in determination of those elements (Mosier, 1975).

One test for reliability of the method is comparison of fineness on samples from localities where large lots of gold have been analyzed for the U.S. Mint or by banks or commercial refiners who have purchased gold. Compilations of gold fineness data have been made by Smith (1941) and by Metz and Hawkins (1981). Also, the First National Bank in Fairbanks made available to us records of gold purchases from 1903 to 1937 from many Alaskan placer deposits. These compilations show excellent agreement for some areas with each other, and poor agreement in other areas. The U.S. Geological Survey data, although acquired by analyses of relatively small samples, agree as well as the data from those sources and are therefore reliable only to the extent permitted by natural variation of gold composition.

DESCRIPTION OF DATA TABLES

The analytical results for placer gold (table 2) are given in weight percent and are presented by localities. The USGS-assigned sample number is given under sample. When sufficient gold was available from a particular site, multiple analyses were made and the results are listed. For this study, fineness is defined as:

$$\text{fineness} = \frac{\text{Au}}{\text{Au} + \text{Ag}} \times 1{,}000 \ .$$

The gold value was determined by difference, that is:

$$\text{Au\%} = 100\text{-}(\text{Ag\%} + \text{X\%}),$$

where X% is the sum of elements other than gold and silver. If an element was not detected at the lower limit of detection, a .0 was entered. The actual weight in milligrams of the gold sample analyzed is given under smpl wt. The values under r = Au/Ag, Au/Cu, Ag/Cu, and r/Cu are self-explanatory alloy ratios that are part of the gold signature (Antweiler and Campbell, 1976). Because the corrected values shown in table 2 are computer-generated data, these results often carry more digits than are significant. The analysts did not determine these values to the accuracy suggested by the extra numbers.

Table 3 lists the results of the analyses for the nonmagnetic fraction of the heavy-mineral-concentrate samples and are presented by localities. No analytical data on heavy-mineral concentrates were obtained from sites 8, 18, 19, 39, 44, and 45. Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). The USGS-assigned sample number corresponds to the placer gold assigned number.

Table 4 shows the mineralogical results of the nonmagnetic heavy-mineral-concentrate samples. No mineralogical data were obtained from sites 8, 18, 19, 39, 44, and 45. The percentages determined for the pyrite and scheelite are strictly eyeball estimates as seen in the microscope field under 20X magnification and do not reflect actual grain counts. If a mineral species was observed in the sample and determined to be less than 1% by volume of the total nonmagnetic sample, an "X" is used. Table 4 indicates only those minerals we feel may be ore-related and does not show extraneous minerals such as apatite, sphene, zircon, etc., most of which appeared in all samples.

OTHER PUBLICATIONS

Other U.S. Geological Survey publications showing principally analytical results, geochemical signatures, mineralogical data, and sample locality maps of placer/lode gold and heavy-mineral concentrates from other gold mining districts in Alaska are:

1. Mosier, E.L., and Lewis, J.S., 1986, Analytical results, geochemical signatures, and sample locality map of lode gold, placer gold, and heavy-mineral concentrates from the Koykuk-Chandalar mining district, Alaska: U.S. Geological Survey Open-File Report 86-345, 172 p., 1 pl.
2. Cathrall, J.B., Antweiler, J.C., and Mosier, E.L., 1987, Occurrence of platinum in gold samples from the Tolovana and Rampart mining districts, Levengood quadrangle, Alaska: U.S. Geological Survey Open-File Report 87-330, 12 pages, 1 pl.

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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.

Jones, R.S., and Fleischer, Michael, 1969, Gold in minerals and the composition of native gold: U.S. Geological Survey Circular 612, 17 p.

Metz, Paul A., and Hawkins, D.B., 1981, A summary of gold fineness values for Alaska Placer deposits: School of Mineral Industry, University of Alaska, Fairbanks, Alaska 99701, MIRL Report 45.

Mosier, E.L., 1975, Use of emission spectroscopy for the semiquantitative analysis of trace elements and silver in native gold, in F.N. Ward, ed., New and refined methods of trace analysis useful in geochemical exploration: U.S. Geological Survey Bulletin 1408, p. 97-105.

Motooka, J.M., and Grimes, D.J., 1976, Analytical precision of one-sixth order semiquantitative spectrographic analyses: U.S. Geological Survey Circular 738, 25 p.

Smith, P.S., 1941, Fineness of gold from Alaska placers: U.S. Geological Survey Bulletin 910-C, p. 147-272.

Table 1. Locality index for placer gold from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

1. Boulder Creek, Bench #4
2. Boulder Creek, Bench #2
3. Boulder Creek, Bench #1
4. Colorado Creek*
5. American Creek
6. New York Gulch*
7. Woodchopper Creek, upper
8. Woodchopper Creek, lower
9. Miller Gulch*
10. Tofty Gulch*
11. Cache Creek
12. Blowback Creek
13. Cooney Creek
14. Thanksgiving Creek
15. Omega Creek, lower
16. Omega Creek, upper
17. Rhode Island Creek, upper
18. Glenn Creek*
19. Rhode Island Creek, middle
20. Bench between Rhode Island-Glenn Creeks*
21. Rhode Island Creek, lower
22. Bench between Glenn-Eureka Creeks
23. Eureka Creek, below Pioneer Creek, #1
24. Eureka Creek, below Pioneer Creek, #2
25. Alameda Creek*
26. Eureka Creek, above American Creek*
27. Eureka Creek, Bench, above American Creek*
28. Eureka Creek, above Boston Creek, below Unanimus Creek*
29. Boston Creek
30. Eureka Creek, above Pioneer Creek, below Boston Creek
31. What Cheer Bar*
32. Pioneer Creek, bench at Doric Creek
33. Seattle Creek, Jr.*
34. Skookum Creek*
35. North Fork Pioneer Creek
36. Slate Creek, #1
37. Ruby Creek, #1
38. Ruby Creek, #2
39. Hoosier Creek, #1
40. Hunter Creek, #1
41. Hunter Creek, #2
42. Hunter Creek, below Dawson Creek
43. Hunter Creek, above Dawson Creek
44. Gunnison Creek
45. Quail Creek

*Geographic name is on 1:63,360 scale map but is not on this map.

Table 2.--Signatures of placer gold from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

[Fineness = $\frac{Au}{Au+Ag}$ x 1000; x = sum of elements other than gold and silver; smpl wt, gold (Au) sample weight in milligrams analyzed; all element and X values given in percent.]

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					1. Boulder Creek, Bench #4; unsorted										
3209A	82.1	862	13.1	4.7948	.0175	.0	.0	.0004	.0	.0	.0	.0	4.3706	.0	.0026
3209B	72.6	769	21.8	5.5725	.0109	.0	.0	.0	.0	.0019	.0	.0	5.4585	.0	.0
3209C	74.4	791	19.6	5.9825	.0069	.0	.0	.0	.0	.0020	.0	.0	5.8824	.0	.0
					2. Boulder Creek, Bench #2; unsorted										
3208A	87.4	925	7.1	5.4700	.0305	.0102	.0	.0002	.0	.0	.0	.0	5.0916	.0	.0010
3208B	86.4	907	8.9	4.6641	.0089	.0	.0	.0	.0	.0	.0	.0	4.4484	.0	.0
3208C	72.3	780	20.3	7.4045	.0203	.0	.0	.0	.0	.0	.0	.0	6.0976	.0	.0
					3. Boulder Creek, Bench #1; unsorted										
3207A	75.1	804	18.3	6.6316	.0183	.0	.0	.0183	.0	.0046	.0	.0	4.5704	.0	.0
3207B	79.1	838	15.2	5.6373	.0203	.0	.0	.0001	.0	.0	.0	.0	5.0813	.0	.0051
3207C	87.8	951	4.6	7.6792	6.3869	.0	.0	.0002	.0	.0	.0	.0	.9124	.0	.0006
					4. Colorado Creek; unsorted										
3203A	73.1	780	20.6	6.2367	.0103	.0	.0	.0	.0	.0	.0	.0	6.1856	.0	.0
3203B	82.8	926	6.7	10.5710	4.7529	.0	.0	.0	.0	.0	.0	.0	4.7529	.0	.1901
3203C	80.5	896	9.3	10.1298	4.6642	.0	.0	.0	.0	.0	.0	.0	2.7985	.0	.0009
3203D	79.8	850	14.0	6.1348	.0094	.0	.0	.0	.0	.0	.0	.0	5.6180	.0	.0028
					5. American Creek; unsorted										
3204B	85.3	919	7.5	7.1953	2.1368	.0	.0	.0003	.0	.0	.0	.0	3.2051	.0	.0075
3204C	78.9	939	5.1	15.9478	10.2459	.0	.0	.0007	.0	.0	.0	.0	5.1230	.0	.0051
3204D	78.5	922	6.6	14.9335	9.4340	.0	.0	.0	.0	.0	.0	.0	4.7170	.0	.0189
					6. New York Gulch; unsorted										
3205A	68.7	719	26.8	4.5157	.0179	.0	.0	.0	.0	.0	.0	.0	4.4643	.0	.0
3205B	64.1	685	29.5	6.3862	.0098	.0	.0	.0002	.0	.0	.0	.0	5.9055	.0	.0
3205C	73.5	783	20.3	6.1819	.0102	.0	.0	.0	.0	.0	.0	.0	6.0976	.0	.0
3205D	66.8	704	28.1	5.1588	.0094	.0	.0	.0	.0047	.0	.0	.0	4.6816	.0	.0094
3206A	74.0	795	19.0	6.9293	.0190	.0	.0	.0	.0	.0	.0	.0	5.7143	.0	.0014
3206B	79.2	843	14.7	6.0453	.0069	.0	.0	.0	.0	.0	.0	.0	5.8824	.0	.0
					7. Woodchopper Creek, upper; minus 35-mesh										
3029A	87.3	884	11.4	1.2729	.0143	.0	.0	.0029	.0	.0476	.0	.0	.9524	.0	.0
3029B	85.5	871	12.7	1.8488	.0211	.0	.0	.0021	.0	.0	.0	.0	1.5856	.0	.0
3029C	83.2	843	15.5	1.3487	.0103	.0	.0	.0103	.0	.0	.0	.0	1.0331	.0	.0005
3029D	82.7	840	15.8	1.5044	.0105	.0	.0	.0011	.0	.0	.0	.0	1.0526	.0	.0007
3029E	81.1	825	17.2	1.6802	.0152	.0	.0	.0007	.0	.0	.0	.0	1.0142	.0	.0015
					7. Woodchopper Creek, upper; plus 35-mesh										
3029XA	81.2	817	18.2	.6334	.4545	.0	.0	.0	.0	.0	.0	.0	.0636	.0	.0
3029XB	76.3	775	22.2	1.4473	.0063	.0	.0	.0127	.0	.0	.0	.0	.8883	.0	.0063
3029XC	81.1	818	18.1	.7910	.1033	.0	.0	.0010	.0	.0	.0	.0	.3099	.0	.0010
3029XE	92.8	941	5.8	1.3960	.0827	.0	.0	.0	.0	.0	.0	.0	.8274	.0	.0012

Table 2.--Signatures of placer gold from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

[Fineness = $\frac{Au}{Au+Ag}$ x 1000; x = sum of elements other than gold and silver; smpl wt, gold (Au) sample weight in milligrams analyzed; all element and X values given in percent.]

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					1. Boulder Creek, Bench #4; unsorted										
3209A	82.1	862	13.1	4.7948	.0175	.0	.0	.0004	.0	.0	.0	.0	4.3706	.0	.0026
3209B	72.6	769	21.8	5.5725	.0109	.0	.0	.0	.0	.0019	.0	.0	5.4585	.0	.0
3209C	74.4	791	19.6	5.9825	.0069	.0	.0	.0	.0	.0020	.0	.0	5.8824	.0	.0
					2. Boulder Creek, Bench #2; unsorted										
3208A	87.4	925	7.1	5.4700	.0305	.0102	.0	.0002	.0	.0	.0	.0	5.0916	.0	.0010
3208B	86.4	907	8.9	4.6641	.0089	.0	.0	.0	.0	.0	.0	.0	4.4484	.0	.0
3208C	72.3	780	20.3	7.4045	.0203	.0	.0	.0	.0	.0	.0	.0	6.0976	.0	.0
					3. Boulder Creek, Bench #1; unsorted										
3207A	75.1	804	18.3	6.6316	.0183	.0	.0	.0183	.0	.0046	.0	.0	4.5704	.0	.0
3207B	79.1	838	15.2	5.6373	.0203	.0	.0	.0001	.0	.0	.0	.0	5.0813	.0	.0051
3207C	87.8	951	4.6	7.6792	6.3869	.0	.0	.0002	.0	.0	.0	.0	.9124	.0	.0006
					4. Colorado Creek; unsorted										
3203A	73.1	780	20.6	6.2367	.0103	.0	.0	.0	.0	.0	.0	.0	6.1856	.0	.0
3203B	82.8	926	6.7	10.5710	4.7529	.0	.0	.0	.0	.0	.0	.0	4.7529	.0	.1901
3203C	80.5	896	9.3	10.1298	4.6642	.0	.0	.0	.0	.0	.0	.0	2.7985	.0	.0009
3203D	79.8	850	14.0	6.1348	.0094	.0	.0	.0	.0	.0	.0	.0	5.6180	.0	.0028
					5. American Creek; unsorted										
3204B	85.3	919	7.5	7.1953	2.1368	.0	.0	.0003	.0	.0	.0	.0	3.2051	.0	.0075
3204C	78.9	939	5.1	15.9478	10.2459	.0	.0	.0007	.0	.0	.0	.0	5.1230	.0	.0051
3204D	78.5	922	6.6	14.9335	9.4340	.0	.0	.0	.0	.0	.0	.0	4.7170	.0	.0189
					6. New York Gulch; unsorted										
3205A	68.7	719	26.8	4.5157	.0179	.0	.0	.0	.0	.0	.0	.0	4.4643	.0	.0
3205B	64.1	685	29.5	6.3862	.0098	.0	.0	.0002	.0	.0	.0	.0	5.9055	.0	.0
3205C	73.5	783	20.3	6.1819	.0102	.0	.0	.0	.0	.0	.0	.0	6.0976	.0	.0
3205D	66.8	704	28.1	5.1588	.0094	.0	.0	.0	.0047	.0	.0	.0	4.6816	.0	.0094
3206A	74.0	795	19.0	6.9293	.0190	.0	.0	.0	.0	.0	.0	.0	5.7143	.0	.0014
3206B	79.2	843	14.7	6.0453	.0069	.0	.0	.0	.0	.0	.0	.0	5.8824	.0	.0
					7. Woodchopper Creek, upper; minus 35-mesh										
3029A	87.3	884	11.4	1.2729	.0143	.0	.0	.0029	.0	.0476	.0	.0	.9524	.0	.0
3029B	85.5	871	12.7	1.8488	.0211	.0	.0	.0021	.0	.0	.0	.0	1.5856	.0	.0
3029C	83.2	843	15.5	1.3487	.0103	.0	.0	.0103	.0	.0	.0	.0	1.0331	.0	.0005
3029D	82.7	840	15.8	1.5044	.0105	.0	.0	.0011	.0	.0	.0	.0	1.0526	.0	.0007
3029E	81.1	825	17.2	1.6802	.0152	.0	.0	.0007	.0	.0	.0	.0	1.0142	.0	.0015
					7. Woodchopper Creek, upper; plus 35-mesh										
3029XA	81.2	817	18.2	.6334	.4545	.0	.0	.0	.0	.0	.0	.0	.0636	.0	.0
3029XB	76.3	775	22.2	1.4473	.0063	.0	.0	.0127	.0	.0	.0	.0	.8883	.0	.0063
3029XC	81.1	818	18.1	.7910	.1033	.0	.0	.0010	.0	.0	.0	.0	.3099	.0	.0010
3029XE	92.8	941	5.8	1.3960	.0827	.0	.0	.0	.0	.0	.0	.0	.8274	.0	.0012

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
					1. Boulder Creek, Bench #4; unsorted --Continued											
3209A	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0004	.0	.0	.0	.0	.0
3209B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3209C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					2. Boulder Creek, Bench #2; unsorted --Continued											
3208A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0009	.0	.0	.0	.0	.0
3208B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3208C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					3. Boulder Creek, Bench #1; unsorted --Continued											
3207A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3207B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3207C	.0	.0	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0
					4. Colorado Creek; unsorted --Continued											
3203A	.0021	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3203B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3203C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0009	.0	.0	.0	.0	.0
3203D	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0009	.0	.0	.0	.0	.0
					5. American Creek; unsorted --Continued											
3204B	.0	.0	.0	.0	.0	.0	.0107	.0	.0	.0	.0011	.0	.0	.0	.0	.0
3204C	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0009	.0	.0	.0	.0	.0
3204D	.0	.0	.0	.0	.0	.0	.0189	.0	.0	.0	.0028	.0	.0	.0	.0	.0
					6. New York Gulch; unsorted --Continued											
3205A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3205B	.0	.0	.0	.0	.0	.0	.0049	.0	.0	.0	.0	.0	.0	.0	.0	.0
3205C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3205D	.0014	.0	.0	.0	.0	.0	.0019	.0	.0	.0	.0	.0	.0	.0	.0	.0
3206A	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0010	.0	.0	.0	.0	.0
3206B	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0008	.0	.0	.0	.0	.0
					7. Woodchopper Creek, upper; minus 35-mesh --Continued											
3029A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3029B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0016
3029C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3029D	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0021
3029E	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0015
					7. Woodchopper Creek, upper; plus 35-mesh --Continued											
3029XA	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3029XB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3029XC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3029XE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Pe	W	Mn	Fe	Mo	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
					1. Boulder Creek, Bench #4; unsorted --Continued									
3209A	.0	.0	.0	.0013	.1311	.0044	.0009	.0026	.2622	5.72	6.3	4,696	750	358.1
3209B	.0	.0	.0	.0002	.0218	.0022	.0005	.0	.0764	4.58	3.3	6,650	2,000	304.5
3209C	.0	.0	.0	.0002	.0196	.0015	.0005	.0010	.0686	5.10	3.8	10,843	2,857	553.0
					2. Boulder Creek, Bench #2; unsorted --Continued									
3208A	.0	.0	.0	.0010	.0509	.0071	.0010	.0713	.2037	4.91	12.3	2,861	233	401.4
3208B	.0	.0	.0	.0018	.0133	.0089	.0044	.0	.1779	5.62	9.7	9,716	1,000	1,092.1
3208C	.0	.0	.0	.0203	.7114	.0305	.0152	.0010	.5081	4.92	3.6	3,556	1,000	174.9
					3. Boulder Creek, Bench #1; unsorted --Continued									
3207A	.0	.0	.0	.0091	.6399	.4570	.4570	.0	.4570	5.47	4.1	4,107	1,000	224.7
3207B	.0	.0	.0	.0010	.2033	.0203	.0010	.0	.3049	4.92	5.2	3,893	750	255.4
3207C	.0	.0	.0	.0018	.0912	.0091	.0018	.0	.2737	5.48	19.2	14	1	3.0
					4. Colorado Creek; unsorted --Continued									
3203A	.0	.0	.0	.0001	.0155	.0015	.0010	.0	.0206	4.85	3.5	7,095	2,000	344.1
3203B	.0	.0	.0	.0003	.1901	.1901	.0190	.0	.4753	5.26	12.4	17	1	2.6
3203C	.0	.0	.0	.0047	1.8657	.1399	.1866	.0014	.4664	5.36	8.6	17	2	1.9
3203D	.0	.0	.0	.0019	.2809	.0281	.0028	.0019	.1873	5.34	5.7	8,525	1,500	607.0
					5. American Creek; unsorted --Continued									
3204B	.0	.0	.0	.0016	.5342	.7479	.0107	.0053	.5342	4.68	11.4	40	4	5.3
3204C	.0	.0	.0	.0005	.2049	.0512	.0072	.0	.3074	4.88	15.4	8	0	1.5
3204D	.0	.0	.0	.0014	.4717	.0472	.0283	.0047	.1887	5.30	11.9	8	1	1.3
					6. New York Gulch; unsorted --Continued									
3205A	.0	.0	.0	.0001	.0179	.0018	.0004	.0	.0134	5.60	2.6	3,847	1,500	143.6
3205B	.0	.0	.0	.0001	.1969	.0689	.0010	.0020	.1969	5.08	2.2	6,511	3,000	220.5
3205C	.0	.0	.0	.0	.0152	.0071	.0010	.0	.0508	4.92	3.6	7,232	2,000	355.8
3205D	.0	.0	.0	.0001	.0281	.1404	.0009	.0	.2809	5.34	2.4	7,129	3,000	253.8
3206A	.0	.0	.0	.0003	.4762	.0476	.0019	.0	.6667	5.25	3.9	3,886	1,000	204.0
3206B	.0	.0	.0	.0002	.0490	.0049	.0015	.0010	.0980	5.10	5.4	11,548	2,143	785.2
					7. Woodchopper Creek, upper; minus 35-mesh --Continued									
3029A	.0	.0	.0	.0014	.1429	.0067	.0048	.0048	.0952	5.25	7.6	6,111	800	534.7
3029B	.0	.0	.0	.0011	.1586	.0021	.0005	.0021	.0740	4.73	6.7	4,043	600	318.7
3029C	.0	.0	.0	.0052	.2066	.0031	.0021	.0052	.0723	4.84	5.4	8,049	1,500	519.5
3029D	.0	.0	.0	.0053	.3158	.0074	.0016	.0021	.1053	4.75	5.2	7,857	1,500	497.6
3029E	.0	.0	.0	.0051	.3043	.0101	.0020	.0203	.3043	4.93	4.7	5,330	1,133	309.1
					7. Woodchopper Creek, upper; plus 35-mesh --Continued									
3029XA	.0	.0	.0	.0005	.0455	.0027	.0006	.0018	.0636	5.50	4.5	179	40	9.8
3029XB	.0	.0	.0	.0019	.2538	.0089	.0025	.0127	.2538	3.94	3.4	12,032	3,500	541.8
3029XC	.0	.0	.0	.0007	.1550	.0021	.0010	.0103	.2066	4.84	4.5	785	175	43.4
3029XE	.0	.0	.0	.0012	.1773	.0591	.0024	.0083	.2364	4.23	16.0	1,122	70	193.7

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					8. Woodchopper Creek, lower; minus 20-mesh										
3167A	77.3	795	20.0	2.6751	.0050	.0	.0	.0	.0	.0018	.0	.0	2.0000	.0	.0010
3167B	84.8	903	9.1	6.1267	.9091	.0	.0	.0001	.0	.0016	.0	.0	4.5455	.0	.0064
3167C	65.9	696	28.8	5.2263	.0192	.0	.0	.0	.0	.0017	.0	.0	4.8077	.0	.0029
					8. Woodchopper Creek, lower; plus 20-mesh										
3167XA	77.1	810	18.1	4.8413	.0018	.0	.0	.0	.0	.0	.0	.0	4.5126	.0	.0
3167XB	82.2	880	11.2	6.5448	.3371	.0	.0	.0	.0	.0	.0	.0	5.6180	.0	.0006
3167XC	85.3	900	9.5	5.1564	.0475	.0	.0	.0	.0	.0	.0	.0	4.7529	.0	.0005
					8. Woodchopper Creek, lower; plus 20-mesh; flat grains										
3167RA	64.9	685	29.8	5.2976	.0070	.0	.0	.0	.0	.0	.0	.0	4.9702	.0	.0
3167RB	68.6	723	26.3	5.1077	.0132	.0	.0	.0004	.0	.0	.0	.0	4.3860	.0	.0009
3167RC	79.3	844	14.6	6.0441	.0097	.0	.0	.0001	.0	.0	.0	.0	5.8480	.0	.0
					9. Miller Gulch; unsorted										
3287	75.3	764	23.3	1.4699	.0163	.0	.0	.0012	.0	.0	.0	.0	1.1628	.0	.0
					10. Tofty Gulch; minus 20-mesh; amalgam										
3211A	91.4	970	2.8	5.8304	.0046	.0	.0	.0065	.0	.0	.0	.0	5.5762	.0	.0007
3211B	84.0	895	9.8	6.1806	.0049	.0	.0	.0069	.0	.0	.0	.0	5.9055	.0	.0007
3211C	84.7	901	9.3	5.9703	.0065	.0	.0	.0140	.0	.0	.0	.0	5.6075	.0	.0007
					10. Tofty Gulch; plus 20-mesh; amalgam										
3211XA	72.2	779	20.5	7.2905	.0051	.0	.0	.0051	.0	.0	.0	.0	6.1475	.0	.0005
3211XB	81.9	881	11.1	7.0359	.0078	.0	.0	.0554	.0	.0	.0	.0	6.6519	.0	.0008
3211XC	84.6	899	9.5	5.8751	.0048	.0	.0	.0048	.0	.0	.0	.0	5.7143	.0	.0007
					11. Cache Creek; minus 35-mesh										
3031A	70.2	714	28.2	1.5813	.0028	.0	.0	.0	.0	.0	.0	.0	1.4085	.0	.0
3031B	65.3	680	30.7	4.0483	.0023	.0	.0	.0006	.0	.0	.0	.0	3.4091	.0	.0
3031C	81.4	829	16.8	1.8304	.0035	.0	.0	.0006	.0	.0	.0	.0	1.1574	.0	.0
3031D	78.8	802	19.5	1.6525	.0030	.0	.0	.0100	.0	.0	.0	.0	1.0000	.0	.0010
					11. Cache Creek; plus 35-mesh										
3031XA	77.7	781	21.8	.5373	.0014	.0	.0	.0003	.0	.0	.0	.0	.1852	.0	.0
3031XB	76.3	772	22.5	1.1648	.0029	.0	.0	.0	.0	.0	.0	.0	.6705	.0	.0
3031XC	81.8	823	17.6	.5095	.0059	.0	.0	.0004	.0	.0	.0	.0	.1765	.0	.0
3031XD	81.8	827	17.2	.9917	.0093	.0	.0	.0003	.0	.0	.0	.0	.9276	.0	.0
3031XE	91.3	918	8.1	.6275	.0077	.0	.0	.0011	.0	.0	.0	.0	.3289	.0	.0008
					12. Blowback Creek; minus 20-mesh, plus 60-mesh										
3288A	85.0	865	13.3	1.7379	.0133	.0	.0	.0027	.0044	.0	.0	.0	.8865	.0	.0044
3288B	83.2	847	15.0	1.7994	.0150	.0	.0	.0020	.0	.0	.0	.0	1.5000	.0	.0
3288C	83.7	848	15.0	1.3300	.0100	.0	.0	.0030	.0	.0	.0	.0	1.0000	.0	.0010
3288FA	89.0	896	10.4	.6367	.0104	.0	.0	.0156	.0	.0	.0	.0	.2075	.0	.0

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
					8. Woodchopper Creek, lower; minus 20-mesh --Continued											
3167A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3167B	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0009	.0	.0	.0	.0	.0
3167C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0008	.0	.0	.0	.0	.0
					8. Woodchopper Creek, lower; plus 20-mesh --Continued											
3167XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3167XB	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0010	.0	.0	.0	.0	.0
3167XC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0008	.0	.0	.0	.0	.0
					8. Woodchopper Creek, lower; plus 20-mesh; flat grains --Continued											
3167RA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0008	.0	.0	.0	.0	.0
3167RB	.0	.0	.0	.0	.0	.0	.0044	.0	.0	.0	.0	.0	.0	.0	.0	.0
3167RC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					9. Miller Gulch; unsorted --Continued											
3287	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0023	.0023	.0	.0	.0	.0	.0
					10. Tofty Gulch; minus 20-mesh; amalgam --Continued											
3211A	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0003	.0	.0	.0	.0	.0
3211B	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0003	.0	.0	.0	.0	.0
3211C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0003	.0	.0	.0	.0	.0
					10. Tofty Gulch; plus 20-mesh; amalgam --Continued											
3211XA	.0	.0	.0	.0	.0	.0	.0005	.0	.0205	.0	.0	.0	.0	.0	.0	.0
3211XB	.0	.0	.0	.0	.0	.0	.0111	.0166	.0	.0	.0017	.0	.0	.0	.0	.0
3211XC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0005	.0	.0	.0	.0	.0
					11. Cache Creek; minus 35-mesh --Continued											
3031A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031D	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					11. Cache Creek; plus 35-mesh --Continued											
3031XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031XB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031XC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031XD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3031XE	.0	.0	.0	.0	.0	.0	.0011	.0	.0	.0	.0	.0	.0	.0	.0	.0
					12. Blowback Creek; minus 20-mesh, plus 60-mesh --Continued											
3288A	.0009	.0	.0	.0	.0	.0	.0013	.0	.0	.0	.0008	.0	.0	.0	.0	.0
3288B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3288C	.0	.0020	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3288FA	.0	.0	.0	.0	.0	.0	.0104	.0104	.0	.0	.0009	.0	.0031	.0	.0	.0004

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
				8. Woodchopper Creek, lower; minus 20-mesh --Continued										
3167A	.0	.0	.0	.0010	.1500	.0150	.0010	.0	.5000	5.00	3.9	15,465	4,000	773.2
3167B	.0	.0	.0	.0014	.1818	.0091	.0091	.0064	.4545	5.50	9.3	93	10	10.3
3167C	.0	.0	.0	.0007	.1923	.0067	.0019	.0	.1923	5.20	2.3	3,428	1,500	118.8
				8. Woodchopper Creek, lower; plus 20-mesh --Continued										
3167XA	.0	.0	.0	.0002	.0451	.0090	.0009	.0009	.2708	5.54	4.3	42,718	10,000	2,366.6
3167XB	.0	.0	.0	.0011	.2247	.0225	.0022	.0	.3371	4.45	7.3	244	33	21.7
3167XC	.0	.0	.0	.0007	.1426	.0190	.0019	.0	.1901	5.26	9.0	1,796	200	188.9
				8. Woodchopper Creek, lower; plus 20-mesh; flat grains --Continued										
3167RA	.0	.0	.0	.0005	.0994	.0149	.0010	.0050	.1988	5.03	2.2	9,324	4,286	312.7
3167RB	.0	.0	.0	.0003	.0877	.1754	.0009	.0	.4386	5.70	2.6	5,212	2,000	198.0
3167RC	.0	.0	.0	.0002	.0195	.0195	.0010	.0	.1462	5.13	5.4	8,140	1,500	556.8
				9. Miller Gulch; unsorted --Continued										
3287	.0	.0	.0	.0003	.0698	.0233	.0047	.0233	.1628	2.15	3.2	4,624	1,429	198.8
				10. Tofty Gulch; minus 20-mesh; amalgam --Continued										
3211A	.0	.0	.0	.0005	.0465	.0046	.0019	.0019	.1859	5.38	32.8	19,665	600	7,053.3
3211B	.0	.0	.0	.0005	.0984	.0030	.0020	.0098	.1476	5.08	8.5	17,064	2,000	1,733.7
3211C	.0	.0	.0	.0014	.1402	.0047	.0028	.0047	.1869	5.35	9.1	12,945	1,429	1,385.1
				10. Tofty Gulch; plus 20-mesh; amalgam --Continued										
3211XA	.0	.0	.0	.0005	.0717	.0102	.0010	.0031	1.0246	4.88	3.5	14,097	4,000	687.9
3211XB	.0	.0	.0	.0002	.1109	.0022	.0111	.0	.1663	4.51	7.4	10,551	1,429	951.7
3211XC	.0	.0	.0	.0002	.0476	.0048	.0019	.0	.0952	5.25	8.9	17,766	2,000	1,865.5
				11. Cache Creek; minus 35-mesh --Continued										
3031A	.0	.0	.0	.0003	.0211	.0042	.0014	.0021	.1408	3.55	2.5	24,939	10,000	885.3
3031B	.0	.0	.0	.0006	.0568	.0057	.0034	.0017	.5682	4.40	2.1	28,719	13,500	936.0
3031C	.0	.0	.0	.0012	.0579	.0081	.0174	.0058	.5787	4.32	4.8	23,439	4,833	1,396.7
3031D	.0	.0	.0	.0015	.1000	.0070	.0100	.0200	.5000	5.00	4.0	26,283	6,500	1,347.8
				11. Cache Creek; plus 35-mesh --Continued										
3031XA	.0	.0	.0	.0005	.0463	.0139	.0028	.0093	.2778	5.40	3.6	55,946	15,667	2,571.2
3031XB	.0	.0	.0	.0001	.0096	.0010	.0010	.0010	.4789	5.22	3.4	26,561	7,833	1,180.0
3031XC	.0	.0	.0	.0004	.0824	.0018	.0035	.0035	.2353	4.25	4.6	13,913	3,000	788.4
3031XD	.0	.0	.0	.0001	.0065	.0006	.0009	.0	.0464	5.39	4.8	8,823	1,850	514.1
3031XE	.0	.0	.0	.0001	.0548	.0022	.0005	.0110	.2193	4.56	11.2	11,890	1,057	1,465.3
				12. Blowback Creek; minus 20-mesh, plus 60-mesh --Continued										
3288A	.0	.0	.0	.0089	.6206	.0062	.0044	.0062	.1773	5.64	6.4	6,389	1,000	480.5
3288B	.0	.0	.0	.0010	.0700	.0070	.0020	.0020	.2000	5.00	5.5	5,547	1,000	369.8
3288C	.0	.0	.0	.0010	.1000	.0070	.0020	.0030	.2000	5.00	5.6	8,367	1,500	557.8
3288FA	.0	.0	.0	.0016	.1556	.0073	.0052	.0010	.2075	4.82	8.6	8,579	1,000	827.0

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				12. Blowback Creek; minus 20-mesh, plus 60-mesh --Continued											
3288FB	92.3	930	6.9	.8275	.0148	.0	.0	.0049	.0	.0	.0002	.0	.1479	.0	.0049
3288FC	89.2	898	10.1	.7409	.0151	.0	.0	.0071	.0	.0	.0	.0	.5040	.0	.0010
3288VA	86.8	880	11.8	1.3676	.0118	.0	.0	.0018	.0	.0	.0	.0	.5910	.0	.0012
3288VB	79.2	811	18.5	2.2447	.0185	.0	.0	.0019	.0	.0	.0	.0	1.2346	.0	.0
				13. Cooney Creek; minus 20-mesh, plus 60-mesh											
3212A	77.5	827	16.2	6.3157	.0032	.0	.0	.0032	.0	.0	.0	.0	5.3879	.0	.0
3212B	76.9	882	10.3	12.7989	.0154	.0	.0	.0206	.0	.0	.0	.0072	2.0576	.0	.0206
3212C	77.7	835	15.3	6.9862	.0020	.0	.0	.5112	.0	.0	.0005	.0153	5.1125	.0	.0005
				13. Cooney Creek; plus 20-mesh											
3212XA	73.8	797	18.8	7.4638	.0063	.0	.0	.0063	.0	.0	.0	.0	6.2500	.0	.0012
3212XB	83.5	854	14.2	2.2369	.0142	.0	.0	.0019	.0	.0047	.0	.0	1.8975	.0	.0
3212XC	76.8	813	17.6	5.5997	.0018	.0	.0	.0088	.0	.0	.0	.0004	4.4092	.0	.0009
				13. Cooney Creek; minus 60-mesh, plus 100-mesh											
3212RA	78.6	846	14.3	7.0692	.0048	.0	.0	1.9048	.0	.0	.0019	.0667	4.7619	.0	.0
3212RB	78.5	840	15.0	6.5139	.0150	.0	.0	1.0000	.0	.0	.0	.0300	5.0000	.0	.0
3212RC	73.1	785	20.0	6.9367	.0070	.0	.0	1.5000	.0	.0	.0	.0500	5.0000	.0	.0
				13. Cooney Creek; minus 100-mesh, plus 160-mesh											
3212SA	77.1	884	10.1	12.8184	.0101	.0	.0	7.0707	.0101	.0	.0020	.1010	3.0303	.0101	.0
3212SB	73.6	841	13.9	12.4542	.0139	.0	.0	6.5056	.0279	.0	.0046	.0929	2.7881	.0465	.0009
3212SC	77.8	884	10.2	12.0031	.0051	.0	.0	7.1575	.0511	.0	.0020	.1022	3.0675	.0102	.0153
				13. Cooney Creek; minus 160-mesh											
3212TA	79.8	889	10.0	10.1565	.0300	.0	.0	2.0000	.0050	.0	.0005	.0500	2.0000	.0100	.0050
3212TB	79.2	884	10.4	10.4760	.0104	.0	.0	2.0747	.0207	.0	.0005	.0519	2.0747	.0156	.0031
3212TC	79.1	889	9.8	11.0098	.0069	.0	.0	2.9528	.0197	.0	.0005	.0689	1.9685	.0098	.0049
				14. Thanksgiving Creek; unsorted											
3202A	81.8	845	15.0	3.1580	.0200	.0	.0	.0003	.0	.0050	.0	.0	3.0000	.0	.0
3202B	82.9	847	15.0	2.0674	.0200	.0	.0	.0002	.0	.0	.0	.0	2.0000	.0	.0
3202C	82.7	847	15.0	2.2669	.0100	.0	.0	.0003	.0	.0020	.0	.0	2.0000	.0	.0005
3202D	77.7	795	20.0	2.2754	.0150	.0	.0	.0003	.0	.0	.0	.0	2.0000	.0	.0020
				15. Omega Creek, lower; unsorted											
3201A	80.9	844	15.0	4.0885	.0050	.0	.0	.0010	.0	.0	.0	.0	2.0000	.0	.0150
3201B	78.3	839	15.0	6.7295	.0050	.0	.0	.0070	.0	.0	.0	.0	5.0000	.0	.0030
				15. Omega Creek, lower; minus 35-mesh											
3030A	76.1	778	21.8	2.1045	.0024	.0	.0	.0016	.0	.0	.0	.0032	1.6129	.0	.0
3030B	60.8	645	33.4	5.7502	.0087	.0	.0	.0009	.0	.0	.0	.0	.8663	.0	.0019
3030C	73.7	756	23.8	2.4803	.0021	.0	.0	.0016	.0	.0	.0	.0	2.0704	.0	.0
3030D	75.3	783	20.9	3.7966	.0023	.0	.0	.0	.0	.0035	.0	.0	3.4803	.0	.0006
3030E	71.0	740	25.0	3.9943	.0030	.0	.0	.0002	.0	.0	.0	.0	3.0000	.0	.0

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
12. Blowback Creek; minus 20-mesh, plus 60-mesh --Continued																
3288FB	.0	.0	.0	.0	.0	.0	.0020	.0	.0	.0	.0008	.0	.0020	.0	.0	.0
3288FC	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0020	.0	.0	.0
3288VA	.0	.0012	.0	.0	.0	.0	.0018	.0	.0	.0	.0	.0006	.0	.0	.0	.0
3288VB	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Cooney Creek; minus 20-mesh, plus 60-mesh --Continued																
3212A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3212B	.0010	.0	.0	.0	.0	.0	.0021	.0	.0010	.0	.0021	.0	.0	.0	.0	.0
3212C	.0	.0	.0	.0	.0	.0	.0153	.0	.0	.0010	.0015	.0	.0	.0	.0	.0005
13. Cooney Creek; plus 20-mesh --Continued																
3212XA	.0	.0	.0	.0	.0	.0	.0038	.0	.0	.0011	.0009	.0	.0	.0	.0	.0012
3212XB	.0	.0	.0	.0	.0	.0002	.0007	.0	.0	.0008	.0	.0	.0	.0	.0	.0
3212XC	.0	.0	.0	.0	.0	.0	.0088	.0	.0004	.0007	.0009	.0	.0018	.0	.0	.0006
13. Cooney Creek; minus 60-mesh, plus 100-mesh --Continued																
3212RA	.0	.0286	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3212RB	.0	.0010	.0	.0	.0	.0002	.0007	.0	.0	.0010	.0	.0	.0	.0	.0	.0
3212RC	.0	.0050	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
13. Cooney Creek; minus 100-mesh, plus 160-mesh --Continued																
3212SA	.0	.5051	.0	.0	.0	.0	.0007	.0	.0101	.0	.0	.0	.0	.0	.0	.0005
3212SB	.0009	.9294	.0	.0	.0	.0	.0009	.0	.0651	.0009	.0	.0	.0465	.0	.0009	.0007
3212SC	.0204	.5112	.0	.0	.0	.0	.0007	.0	.0051	.0009	.0	.0	.0	.0	.0	.0005
13. Cooney Creek; minus 160-mesh --Continued																
3212TA	.0050	5.0000	.0	.0	.0	.0	.0015	.0	.0150	.0010	.0020	.0	.0050	.0	.0	.0015
3212TB	.0156	5.1867	.0	.0	.0	.0	.0010	.0	.0052	.0009	.0016	.0	.0021	.0	.0	.0021
3212TC	.0098	4.9213	.0	.0	.0	.0	.0015	.0	.0492	.0010	.0030	.0	.0049	.0	.0	.0020
14. Thanksgiving Creek; unsorted --Continued																
3202A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3202B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3202C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3202D	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15. Omega Creek, lower; unsorted --Continued																
3201A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0010	.0	.0	.0	.0	.0
3201B	.0	.0	.0	.0	.0	.0	.0300	.1000	.0	.0	.0015	.0	.0	.0	.0	.0010
15. Omega Creek, lower; minus 35-mesh --Continued																
3030A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3030B	.0	.0	.0	.0	.0	.0	.0012	.0	.0062	.0012	.0	.0	.0062	.0	.0	.0
3030C	.0	.0	.0	.0	.0	.0	.0	.0	.0021	.0	.0	.0	.0	.0	.0	.0
3030D	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3030F	.0	.0	.0	.0	.0	.0	.0015	.0	.0	.0	.0	.0007	.0	.0	.0	.0004

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
12. Blowback Creek; minus 20-mesh, plus 60-mesh --Continued														
3288FB	.0	.0	.0	.1479	.0493	.0069	.1479	.0020	.2959	5.07	13.4	6,237	467	903.5
3288FC	.0	.0	.0	.0015	.0504	.0050	.0010	.0015	.1512	4.96	8.8	5,898	667	585.0
3288VA	.0	.0	.0	.0018	.1182	.0236	.0118	.0118	.5910	4.23	7.3	7,344	1,000	621.3
3288VB	.0	.0	.0	.0012	.0864	.0185	.0123	.0062	.8642	4.05	4.3	4,279	1,000	231.1
13. Cooney Creek; minus 20-mesh, plus 60-mesh --Continued														
3212A	.0	.0	.0	.0005	.1616	.0032	.0011	.0	.7543	4.64	4.8	23,980	5,000	1,483.5
3212B	.0	.0	.0	.0514	10.2881	.0072	.0005	.0154	.3086	4.86	7.5	4,984	667	484.4
3212C	.0	.0	.0	.0015	.2045	.0716	.0051	.0204	1.0225	4.89	5.1	37,984	7,500	2,476.5
13. Cooney Creek; plus 20-mesh --Continued														
3212XA	.0	.0	.0	.0019	.2500	.0375	.0038	.0250	.8750	4.00	3.9	11,806	3,000	629.6
3212XB	.0	.0	.0	.0009	.1898	.0019	.0009	.0285	.0949	5.27	5.9	5,869	1,000	412.4
3212XC	.0	.0	.0	.0013	.1764	.0441	.0441	.0176	.8818	5.67	4.4	43,525	10,000	2,467.9
13. Cooney Creek; minus 60-mesh, plus 100-mesh --Continued														
3212RA	.0	.0	.0	.0029	.0667	.0095	.0019	.0286	.1905	5.25	5.5	16,515	3,000	1,156.1
3212RB	.0	.0	.0	.0030	.2000	.0100	.0030	.0500	.2000	5.00	5.2	5,232	1,000	348.8
3212RC	.0	.0	.0	.0010	.1500	.0100	.0030	.0100	.2000	5.00	3.7	10,438	2,857	521.9
13. Cooney Creek; minus 100-mesh, plus 160-mesh --Continued														
3212SA	.0	.0	.0	.0303	1.5152	.0152	.0020	.2020	.3030	4.95	7.6	7,631	1,000	755.5
3212SB	.0	.0	.0279	.0186	1.3941	.0139	.0093	.2788	.1859	5.38	5.3	5,280	1,000	378.7
3212SC	.0	.0	.0	.0051	.7157	.0153	.0102	.1022	.2045	4.89	7.6	15,212	2,000	1,487.8
13. Cooney Creek; minus 160-mesh --Continued														
3212TA	.0	.0	.0050	.0030	.7000	.0070	.0100	.1000	.2000	5.00	8.0	2,661	333	266.1
3212TB	.0	.0	.0041	.0073	.7261	.0052	.0073	.0519	.2075	4.82	7.6	7,630	1,000	735.5
3212TC	.0	.0	.0039	.0069	.6890	.0049	.0148	.0689	.1969	5.08	8.0	11,488	1,429	1,167.2
14. Thanksgiving Creek; unsorted --Continued														
3202A	.0	.0	.0	.0002	.0300	.0015	.0010	.0	.1000	5.00	5.5	4,092	750	272.8
3202B	.0	.0	.0	.0002	.0300	.0010	.0010	.0	.0150	5.00	5.5	4,147	750	276.4
3202C	.0	.0	.0	.0002	.0500	.0020	.0020	.0	.2000	5.00	5.5	8,273	1,500	551.6
3202D	.0	.0	.0	.0007	.1500	.0050	.0015	.0009	.1000	5.00	3.9	5,182	1,333	259.1
15. Omega Creek, lower; unsorted --Continued														
3201A	.0	.0	.0	.0030	.5000	.0500	.0100	.0030	1.5000	5.00	5.4	16,182	3,000	1,078.8
3201B	.0	.0	.0	.0020	.5000	.0500	.0200	.0100	1.0000	5.00	5.2	15,654	3,000	1,043.6
15. Omega Creek, lower; minus 35-mesh --Continued														
3030A	.0	.0	.0	.0005	.2419	.0161	.0484	.0161	.1613	3.10	3.5	31,463	9,000	1,445.0
3030B	.0	.0	.0	.0062	3.7129	.0866	.0619	.1238	.8663	4.04	1.8	7,022	3,857	210.1
3030C	.0	.0	.0	.0005	.0725	.0104	.0052	.0052	.3106	4.83	3.1	35,602	11,500	1,495.3
3030D	.0	.0	.0	.0002	.0580	.0058	.0058	.0081	.2320	4.31	3.6	32,464	9,000	1,554.6
3030E	.0	.0	.0	.0015	.2000	.0700	.0100	.0070	.7000	5.00	2.8	23,669	8,333	946.7

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					15. Omega Creek, lower; minus 35-mesh --Continued										
3030F	73.6	763	22.9	3.5667	.0033	.0	.0	.0022	.0	.0	.0109	.0	3.2680	.0	.0011
					15. Omega Creek, lower; plus 35-mesh										
3030XA	57.7	593	39.5	2.7467	.0023	.0	.0	.0006	.0	.0	.0	.0	2.3256	.0	.0
3030XB	76.3	784	21.0	2.7469	.0050	.0	.0	.0002	.0	.0	.0	.0	2.0000	.0	.0005
3030XC	71.5	721	27.6	.8881	.0081	.0	.0	.0002	.0	.0041	.0	.0	.8130	.0	.0006
3030XD	78.6	794	20.4	1.0769	.0031	.0	.0	.0	.0	.0	.0	.0	.5219	.0	.0
					16. Omega Creek, upper; minus 20-mesh, plus 60-mesh										
3200A	82.9	847	15.0	2.0651	.0150	.0	.0	.0002	.0	.0018	.0	.0	2.0000	.0	.0005
3200B	76.7	793	20.0	3.2699	.0150	.0	.0	.0003	.0	.0150	.0	.0	3.0000	.0	.0
3200C	74.8	789	20.0	5.1864	.0070	.0	.0	.0003	.0	.0020	.0	.0	5.0000	.0	.0
3200D	81.9	845	15.0	3.1085	.0100	.0	.0	.0002	.0	.0020	.0	.0	3.0000	.0	.0007
					16. Omega Creek, upper; plus 20-mesh										
3200XA	74.4	788	20.0	5.6117	.0050	.0	.0	.0100	.0	.0	.0	.0002	5.0000	.0	.0010
3200XB	81.4	839	15.6	2.9622	.0073	.0	.0	.0031	.0	.0021	.0	.0	2.0833	.0	.0021
3200XC	83.6	862	13.4	2.9145	.0134	.0	.0	.0004	.0	.0	.0	.0	2.6882	.0	.0027
					16. Omega Creek, upper; minus 60-mesh, plus 100-mesh										
3200RA	79.4	841	15.0	5.6442	.0050	.0	.0	.0100	.0	.0	.0	.0	5.0000	.0	.0005
3200RB	74.0	787	20.0	5.9632	.0070	.0	.0	.0100	.0	.0020	.0	.0002	5.0000	.0	.0005
3200RC	73.2	785	20.0	6.8010	.0100	.0	.0	.7000	.0	.0020	.0	.0015	5.0000	.0	.0015
					16. Omega Creek, upper; minus 100-mesh, plus 160-mesh										
3200SA	76.2	792	20.0	3.7687	.0100	.0	.0	.1500	.0	.0030	.0	.0070	3.0000	.0	.0030
3200SB	79.2	841	15.0	5.8165	.0050	.0	.0	.5000	.0	.0020	.0	.0150	5.0000	.0	.0
3200SC	75.4	790	20.0	4.6045	.0300	.0	.0	.7000	.0	.0020	.0	.0100	3.0000	.0	.0050
					16. Omega Creek, upper; minus 100-mesh										
3200TA	75.9	835	15.0	9.0884	.0150	.0500	.0	5.0000	.0300	.0	.0	.0500	2.0000	.0	.0150
3200TB	75.6	834	15.0	9.4124	.1000	.0300	.0	5.0000	.0500	.0	.0	.0500	1.5000	.0	.0200
3200TC	75.1	833	15.0	9.9490	.0150	.0300	.0	5.0000	.0700	.0	.0	.0500	2.0000	.0	.0500
					17. Rhode Island Creek, upper; unsorted										
3198A	80.3	848	14.5	5.2018	.0096	.0	.0	.0019	.0	.0	.0	.0	4.8170	.0	.0029
3198B	79.3	841	15.0	5.6602	.0300	.0	.0	.0015	.0	.0	.0	.0	5.0000	.0	.0030
3198C	86.6	897	10.0	3.3769	.0100	.0	.0	.0010	.0	.0	.0	.0	3.0000	.0	.0020
3198D	79.6	841	15.0	5.4079	.0150	.0	.0	.0005	.0	.0	.0	.0	5.0000	.0	.0020
					18. Glenn Creek; plus 20-mesh										
3277XA	83.8	848	15.0	1.2256	.0100	.0	.0	.0030	.0	.0030	.0	.0	1.0000	.0	.0015
3277XB	80.0	813	18.4	1.5800	.0184	.0	.0	.0018	.0	.0046	.0	.0	1.3787	.0	.0009
3277XC	83.9	848	15.0	1.0939	.0200	.0	.0	.0015	.0	.0020	.0	.0	1.0000	.0	.0010
3277ZA	84.7	858	14.0	1.2179	.0140	.0	.0	.0094	.0	.0	.0	.0002	.9363	.0	.0005
3277ZB	78.3	791	20.7	1.0827	.0155	.0	.0	.0015	.0	.0021	.0	.0	1.0331	.0	.0005

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
					15. Omega Creek, lower; minus 35-mesh --Continued											
3030F	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					15. Omega Creek, lower; plus 35-mesh --Continued											
3030XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3030XB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3030XC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3030XD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					16. Omega Creek, upper; minus 20-mesh, plus 60-mesh --Continued											
3200A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200D	.0020	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
					16. Omega Creek, upper; plus 20-mesh --Continued											
3200XA	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200XB	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200XC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
					16. Omega Creek, upper; minus 60-mesh, plus 100-mesh --Continued											
3200RA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200RB	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0005	.0300	.0	.0	.0
3200RC	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
					16. Omega Creek, upper; minus 100-mesh, plus 160-mesh --Continued											
3200SA	.0	.0010	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200SB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3200SC	.0050	.0	.0	.0	.0	.0	.0005	.0	.0200	.0	.0	.0	.0	.0	.0	.0
					16. Omega Creek, upper; minus 100-mesh --Continued											
3200TA	.0300	.0	.0	.0	.0	.0	.0010	.0	.0150	.0015	.0009	.0	.0	.0	.0	.0
3200TB	.0500	.0010	.0	.0	.0	.0	.0015	.0	.0200	.0030	.0009	.0	.0	.0	.0010	.0
3200TC	.1000	.0010	.0	.0	.0	.0	.0015	.0	.0300	.0030	.0020	.0	.0050	.0	.0010	.0005
					17. Rhode Island Creek, upper; unsorted --Continued											
3198A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3198B	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3198C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3198D	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
					18. Glenn Creek; plus 20-mesh --Continued											
3277XA	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277XB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277XC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277ZA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277ZB	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
					15. Omega Creek, lower; minus 35-mesh --Continued									
3030F	.0	.0	.0	.0002	.0545	.0054	.0022	.0011	.2179	4.59	3.2	22,509	7,000	983.9
					15. Omega Creek, lower; plus 35-mesh --Continued									
3030XA	.0	.0	.0	.0002	.0581	.0058	.0035	.0017	.3488	4.30	1.5	24,819	17,000	627.8
3030XB	.0	.0	.0	.0002	.0300	.0050	.0030	.0030	.7000	5.00	3.6	15,251	4,200	726.2
3030XC	.0	.0	.0	.0	.0041	.0004	.0008	.0	.0569	6.15	2.6	8,791	3,400	318.0
3030XD	.0	.0	.0	.0002	.0209	.0073	.0016	.0	.5219	4.79	3.9	25,089	6,500	1,232.6
					16. Omega Creek, upper; minus 20-mesh, plus 60-mesh --Continued									
3200A	.0	.0	.0	.0001	.0150	.0010	.0015	.0	.0300	5.00	5.5	5,529	1,000	368.6
3200B	.0	.0	.0	.0003	.0300	.0070	.0015	.0009	.2000	5.00	3.8	5,115	1,333	255.8
3200C	.0	.0	.0	.0001	.0200	.0050	.0020	.0	.1500	5.00	3.7	10,688	2,857	534.4
3200D	.0	.0	.0	.0001	.0200	.0020	.0015	.0	.0700	5.00	5.5	8,189	1,500	545.9
					16. Omega Creek, upper; plus 20-mesh --Continued									
3200XA	.0	.0	.0	.0005	.0700	.0200	.0020	.0020	.5000	5.00	3.7	14,878	4,000	743.9
3200XB	.0	.0	.0	.0007	.1042	.0208	.0031	.0052	.7292	4.80	5.2	11,165	2,143	714.6
3200XC	.0	.0	.0	.0006	.0627	.0090	.0013	.0013	.1344	5.58	6.2	6,223	1,000	463.0
					16. Omega Creek, upper; minus 60-mesh, plus 100-mesh --Continued									
3200RA	.0	.0	.0	.0100	.2000	.0150	.0030	.1000	.3000	5.00	5.3	15,871	3,000	1,058.1
3200RB	.0	.0	.0	.0200	.5000	.0200	.0020	.0700	.3000	5.00	3.7	10,577	2,857	528.8
3200RC	.0	.0	.0	.0100	.5000	.0150	.0100	.0500	.5000	5.00	3.7	7,320	2,000	366.0
					16. Omega Creek, upper; minus 100-mesh, plus 160-mesh --Continued									
3200SA	.0	.0	.0	.0070	.3000	.0150	.0020	.0700	.2000	5.00	3.8	7,623	2,000	381.2
3200SB	.0	.0	.0	.0030	.1000	.0100	.0015	.0300	.1500	5.00	5.3	15,837	3,000	1,055.8
3200SC	.0	.0	.0	.0150	.5000	.0150	.0020	.1000	.2000	5.00	3.8	2,513	667	125.7
					16. Omega Creek, upper; minus 100-mesh --Continued									
3200TA	.0	.0	.0	.0500	1.0000	.0200	.0100	.5000	.3000	5.00	5.1	5,061	1,000	337.4
3200TB	.0	.0	.0	.0500	1.0000	.0200	.0150	1.0000	.5000	5.00	5.0	756	150	50.4
3200TC	.0	.0	.0	.0500	1.0000	.0200	.0200	1.0000	.5000	5.00	5.0	5,003	1,000	333.6
					17. Rhode Island Creek, upper; unsorted --Continued									
3198A	.0	.0	.0	.0005	.0674	.0096	.0014	.0019	.2890	5.19	5.6	8,340	1,500	577.1
3198B	.0	.0	.0	.0010	.1000	.0200	.0020	.0020	.5000	5.00	5.3	2,645	500	176.3
3198C	.0	.0	.0	.0007	.1500	.0100	.0015	.0010	.2000	5.00	8.7	8,662	1,000	866.2
3198D	.0	.0	.0	.0007	.0700	.0150	.0020	.0020	.3000	5.00	5.3	5,306	1,000	353.7
					18. Glenn Creek; plus 20-mesh --Continued									
3277XA	.0	.0	.0	.0007	.0500	.0050	.0010	.0010	.1500	5.00	5.6	8,377	1,500	558.5
3277XB	.0	.0	.0	.0005	.0276	.0064	.0014	.0014	.1379	5.44	4.4	4,354	1,000	236.9
3277XC	.0	.0	.0	.0002	.0150	.0020	.0010	.0009	.0500	5.00	5.6	4,195	750	279.7
3277ZA	.0	.0	.0	.0009	.0936	.0187	.0014	.0019	.1404	5.34	6.0	6,033	1,000	429.6
3277ZB	.0	.0	.0	.0001	.0103	.0021	.0010	.0	.0155	4.84	3.8	5,050	1,333	244.4

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					18. Glenn Creek; plus 20-mesh --Continued										
3277ZC	79.4	808	18.9	1.7299	.0094	.0	.0	.0019	.0	.0	.0	.0	.9434	.0	.0019
3277BA	74.2	757	23.8	2.0231	.0179	.0	.0	.0018	.0	.0021	.0	.0	1.7857	.0	.0012
3277BB	77.4	788	20.8	1.7555	.0208	.0	.0	.0069	.0	.0	.0	.0	1.3889	.0	.0021
					18. Glenn Creek; minus 20-mesh, plus 60-mesh										
3277A	78.8	798	20.0	1.2022	.0150	.0	.0	.0050	.0	.0030	.0	.0	1.0000	.0	.0010
3277B	78.3	796	20.0	1.7415	.0150	.0	.0	.0030	.0	.0100	.0	.0	1.5000	.0	.0015
3277C	77.5	785	21.2	1.3334	.0106	.0	.0	.0074	.0	.0	.0	.0	1.0593	.0	.0021
3277SA	79.8	806	19.2	.9899	.0096	.0	.0	.0019	.0	.0048	.0	.0	.6731	.0	.0014
3277SB	84.6	857	14.2	1.2565	.0142	.0	.0	.0047	.0	.0	.0	.0	.9434	.0	.0009
3277SC	80.7	836	15.9	3.3961	.0032	.0	.0	.0032	.0	.0	.0	.0	3.1712	.0	.0011
3277HA	83.2	847	15.0	1.7712	.0050	.0	.0	.0030	.0	.0	.0	.0	1.5000	.0	.0020
3277HB	84.6	864	13.4	2.0400	.0089	.0	.0	.0045	.0	.0018	.0	.0	1.7825	.0	.0018
3277HC	83.2	846	15.1	1.6633	.0071	.0	.0	.0020	.0	.0	.0	.0	1.5121	.0	.0010
3277FA	77.2	797	19.6	3.2083	.0049	.0	.0	.0020	.0	.0	.0	.0	2.9412	.0	.0020
3277FB	78.3	800	19.6	2.1030	.0068	.0	.0	.0020	.0	.0020	.0	.0	1.9569	.0	.0
3277FC	84.9	856	14.3	.8374	.0190	.0	.0	.0019	.0	.0017	.0	.0	.6667	.0	.0
3277WA	80.2	823	17.2	2.5243	.0115	.0	.0	.0023	.0	.0057	.0	.0	2.2989	.0	.0006
3277WB	76.4	787	20.7	2.9163	.0069	.0	.0	.0138	.0	.0028	.0	.0	2.7624	.0	.0007
3277VA	79.2	810	18.6	2.1865	.0093	.0	.0	.0019	.0	.0028	.0	.0	1.8587	.0	.0005
3277VB	77.9	798	19.7	2.3696	.0069	.0	.0	.0030	.0	.0069	.0	.0	1.9685	.0	.0010
					19. Rhode Island Creek, middle; minus 20-mesh; flat, thick										
3166A	82.8	847	15.0	2.2051	.0100	.0	.0	.0050	.0	.0020	.0	.0	2.0000	.0	.0020
3166B	79.6	841	15.0	5.4387	.0070	.0	.0	.0700	.0	.0	.0	.0	5.0000	.0	.0030
3166C	81.3	844	15.0	3.6563	.0150	.0	.0	.0500	.0	.0018	.0	.0	3.0000	.0	.0020
					19. Rhode Island Creek, middle; plus 20-mesh; flat, thick										
3166XA	78.0	818	17.4	4.5652	.0087	.0	.0	.0013	.0	.0015	.0	.0	4.3478	.0	.0017
3166XB	76.4	803	18.8	4.8787	.0066	.0	.0	.0047	.0	.0016	.0	.0	4.6904	.0	.0009
3166XC	84.5	862	13.5	1.9813	.0180	.0	.0	.0045	.0	.0018	.0	.0	1.7986	.0	.0009
					19. Rhode Island Creek, middle; unsorted										
3166YA	73.6	790	19.5	6.9081	.0091	.0	.0	.1953	.0	.0023	.0	.0	6.5104	.0	.0013
3166YB	79.5	825	16.9	3.6212	.0169	.0	.0	.1126	.0	.0034	.0	.0	3.3784	.0	.0
					19. Rhode Island Creek, middle; minus 20-mesh; crystalline, little worn										
3166SA	82.4	852	14.4	3.2448	.0096	.0	.0	.0144	.0	.0	.0	.0	2.8736	.0	.0029
3166SB	82.3	851	14.4	3.2928	.0048	.0	.0	.0067	.0	.0	.0	.0	2.8846	.0	.0014
3166SC	81.2	833	16.2	2.5662	.0076	.0	.0	.0054	.0	.0	.0	.0	2.1645	.0	.0016
					19. Rhode Island Creek, middle; plus 20-mesh; crystalline, little worn										
3166TA	82.7	854	14.1	3.1782	.0094	.0	.0	.0047	.0	.0016	.0	.0	2.8195	.0	.0019
3166TB	74.6	788	20.0	5.4454	.0070	.0	.0	.2000	.0	.0	.0	.0	5.0000	.0	.0010
3166TC	81.7	848	14.7	3.5486	.0069	.0	.0	.0490	.0	.0	.0	.0	2.9412	.0	.0015

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
						18. Glenn Creek; plus 20-mesh --Continued										
3277ZC	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277BA	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3277BP	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
						18. Glenn Creek; minus 20-mesh, plus 60-mesh --Continued										
3277A	.0	.0	.0	.0	.0	.0	.0015	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277C	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277SA	.0	.0	.0	.0	.0	.0005	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277SB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277SC	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277HA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277HB	.0	.0008	.0	.0	.0	.0	.0009	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277HC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277FA	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277FB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277FC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277WA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277WB	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277VA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3277VB	.0	.0	.0	.0	.0	.0	.0020	.0	.0	.0	.0	.0	.0	.0	.0	.0
						19. Rhode Island Creek, middle; minus 20-mesh; flat, thick --Continued										
3166A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166B	.0	.0200	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166C	.0	.0050	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
						19. Rhode Island Creek, middle; plus 20-mesh; flat, thick --Continued										
3166XA	.0	.0	.0	.0	.0	.0	.0003	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166XB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166XC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
						19. Phode Island Creek, middle; unsorted --Continued										
3166YA	.0	.0260	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166YB	.0	.0169	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
						19. Rhode Island Creek, middle; minus 20-mesh; crystalline, little worn --Continued										
3166SA	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166SB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166SC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
						19. Rhode Island Creek, middle; plus 20-mesh; crystalline, little worn --Continued										
3166TA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166TB	.0	.0020	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3166TC	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
					18. Glenn Creek; plus 20-mesh --Continued									
3277ZC	.0	.0	.0	.0009	.0943	.0094	.0047	.0028	.6604	5.30	4.2	8,417	2,000	446.1
3277BA	.0	.0	.0	.0004	.0238	.0060	.0024	.0024	.1786	4.20	3.1	4,153	1,333	174.4
3277BB	.0	.0	.0	.0007	.0417	.0069	.0021	.0069	.2778	3.60	3.7	3,716	1,000	178.4
					18. Glenn Creek; minus 20-mesh, plus 60-mesh --Continued									
3277A	.0	.0	.0	.0007	.0200	.0050	.0010	.0	.1500	5.00	3.9	5,253	1,333	262.7
3277B	.0	.0	.0	.0015	.0500	.0050	.0020	.0030	.1500	5.00	3.9	5,217	1,333	260.9
3277C	.0	.0	.0	.0007	.0318	.0053	.0016	.0021	.2119	4.72	3.7	7,314	2,000	345.2
3277SA	.0	.0	.0	.0014	.1923	.0048	.0019	.0014	.0962	5.20	4.1	8,297	2,000	431.4
3277SB	.0	.0	.0	.0014	.1887	.0047	.0019	.0019	.0943	5.30	6.0	5,978	1,000	422.4
3277SC	.0	.0	.0	.0011	.0529	.0032	.0011	.0	.1586	4.73	5.1	25,462	5,000	1,605.8
3277HA	.0	.0	.0	.0010	.0500	.0070	.0015	.0010	.2000	5.00	5.5	16,646	3,000	1,109.7
3277HB	.0	.0	.0	.0009	.0446	.0089	.0018	.0045	.1783	5.61	6.3	9,491	1,500	709.9
3277HC	.0	.0	.0	.0005	.0302	.0050	.0010	.0030	.1008	4.96	5.5	11,793	2,143	779.9
3277FA	.0	.0	.0	.0010	.0490	.0049	.0015	.0049	.1961	5.10	3.9	15,746	4,000	803.0
3277FB	.0	.0	.0	.0005	.0294	.0049	.0015	.0008	.0978	5.11	4.0	11,436	2,857	584.4
3277FC	.0	.0	.0	.0007	.0476	.0029	.0010	.0008	.0952	5.25	5.9	4,456	750	311.9
3277WA	.0	.0	.0	.0008	.0230	.0057	.0017	.0011	.1724	4.35	4.7	6,980	1,500	404.9
3277WB	.0	.0	.0	.0007	.0207	.0069	.0014	.0028	.0967	3.62	3.7	11,058	3,000	533.7
3277VA	.0	.0	.0	.0007	.0279	.0046	.0009	.0	.2788	5.38	4.3	8,525	2,000	458.6
3277VB	.0	.0	.0	.0015	.1476	.0295	.0049	.0010	.1969	5.08	4.0	11,313	2,857	574.7
					19. Rhode Island Creek, middle; minus 20-mesh; flat, thick --Continued									
3166A	.0	.0	.0	.0007	.0300	.0020	.0030	.0	.1500	5.00	5.5	8,279	1,500	552.0
3166B	.0	.0	.0	.0007	.0300	.0030	.0030	.0015	.3000	5.00	5.3	11,366	2,143	757.7
3166C	.0	.0	.0	.0010	.0700	.0070	.0030	.0010	.5000	5.00	5.4	5,423	1,000	361.5
					19. Rhode Island Creek, middle; plus 20-mesh; flat, thick --Continued									
3166XA	.0	.0	.0	.0003	.0261	.0017	.0017	.0	.1739	5.75	4.5	8,975	2,000	516.1
3166XB	.0	.0	.0	.0005	.0281	.0019	.0019	.0009	.1407	5.33	4.1	11,628	2,857	619.8
3166XC	.0	.0	.0	.0003	.0180	.0027	.0013	.0	.1349	5.56	6.3	4,700	750	348.4
					19. Rhode Island Creek, middle; unsorted --Continued									
3166YA	.0	.0	.0	.0004	.0260	.0039	.0026	.0	.1302	3.84	3.8	8,071	2,143	413.2
3166YB	.0	.0	.0	.0002	.0113	.0011	.0017	.0	.0788	4.44	4.7	4,706	1,000	278.6
					19. Rhode Island Creek, middle; minus 20-mesh; crystalline, little worn --Continued									
3166SA	.0	.0	.0	.0007	.1437	.0067	.0014	.0	.1916	5.22	5.7	8,601	1,500	598.6
3166SB	.0	.0	.0	.0010	.0962	.0067	.0014	.0010	.2885	5.20	5.7	17,115	3,000	1,186.6
3166SC	.0	.0	.0	.0008	.0541	.0054	.0016	.0	.3247	4.62	5.0	10,718	2,143	660.3
					19. Rhode Island Creek, middle; plus 20-mesh; crystalline, little worn --Continued									
3166TA	.0	.0	.0	.0007	.0470	.0094	.0014	.0	.2820	5.32	5.9	8,802	1,500	624.3
3166TB	.0	.0	.0	.0005	.0300	.0030	.0015	.0	.2000	5.00	3.7	10,651	2,857	532.5
3166TC	.0	.0	.0	.0007	.0490	.0069	.0015	.0008	.4902	5.10	5.6	11,911	2,143	810.0

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Ri	Hg	Te	Ni
				20. Bench between Rhode Island/Glenn Creeks; unsorted											
3199A	77.9	796	20.0	2.0870	.0100	.0	.0	.0	.0	.0100	.0	.0	2.0000	.0	.0
3199B	81.0	828	16.8	2.1813	.0112	.0	.0	.0056	.0	.0020	.0	.0	1.6816	.0	.0017
3199C	82.0	841	15.5	2.5468	.0072	.0	.0	.0310	.0	.0018	.0	.0052	2.0661	.0	.0031
3199D	80.2	818	17.9	1.9787	.0063	.0	.0	.0002	.0	.0027	.0	.0	1.7857	.0	.0009
				21. Rhode Island Creek, lower; plus 20-mesh											
3278A	81.1	827	16.9	1.9831	.0127	.0	.0	.0042	.0	.0059	.0	.0	1.6949	.0	.0017
3278B	77.8	795	20.0	2.2264	.0100	.0	.0	.0020	.0	.0018	.0	.0	2.0000	.0	.0010
3278C	79.9	802	19.7	.3620	.0092	.0	.0	.0020	.0	.0039	.0	.0	.2632	.0	.0
3278D	79.7	807	19.1	1.1515	.0143	.0	.0	.0014	.0	.0017	.0	.0	.9560	.0	.0
3278BA	79.3	822	17.1	3.5886	.0086	.0	.0	.0026	.0	.0	.0	.0	1.7123	.0	.0086
3278BB	76.6	817	17.2	6.2346	.0114	.0057	.0	.0034	.0229	.0	.0	.0	3.4325	.0	.0343
3278BD	76.2	823	16.4	7.4176	.0077	.0	.0	.0022	.0164	.0	.0	.0	5.4705	.0	.0109
3278Q1A	72.5	750	24.1	3.3926	.0161	.0	.0	.0024	.0	.0	.0	.0	1.6077	.0	.0
3278Q1B	71.6	762	22.3	6.0402	.0223	.0	.0	.0033	.0	.0	.0	.0	1.1161	.0	.0
3278Q2A	74.3	771	22.0	3.7048	.0154	.0	.0	.0033	.0	.0044	.0	.0	.2203	.0	.0
3278Q2B	76.7	786	20.8	2.4573	.0146	.0	.0	.0063	.0	.0042	.0	.0	.2083	.0	.0
3278Q3	81.5	845	15.0	3.4742	.0070	.0	.0	.0030	.0	.0018	.0	.0	1.0000	.0	.0020
				22. Bench between Glenn/Eureka Creeks; unsorted											
3256RA	83.1	868	12.6	4.2278	.0063	.0	.0	.0126	.0	.0	.0	.0	3.7879	.0	.0013
3256RB	80.6	850	14.2	5.2183	.0102	.0	.0	.0102	.0	.0	.0	.0203	4.0650	.0	.0102
				22. Bench between Glenn/Eureka Creeks; minus 20-mesh, plus 60-mesh											
3256A	79.9	842	15.0	5.1282	.0050	.0	.0	.0	.0	.0	.0	.0	5.0000	.0	.0
3256B	82.4	846	15.0	2.5575	.0200	.0	.0	.0150	.0	.0020	.0	.0	2.0000	.0	.0100
3256C	81.8	845	15.0	3.2288	.0150	.0	.0	.0003	.0	.0	.0	.0	3.0000	.0	.0030
3256D	82.0	845	15.0	2.9514	.0150	.0	.0	.0002	.0	.0050	.0	.0	2.0000	.0	.0030
				22. Bench between Glenn/Eureka Creeks; plus 20-mesh											
3256XA	77.6	814	17.7	4.6443	.0089	.0	.0	.0	.0	.0016	.0	.0	4.4326	.0	.0
3256XB	77.9	817	17.4	4.7047	.0044	.0	.0	.0	.0	.0	.0	.0	4.3554	.0	.0026
3256XC	77.8	795	20.0	2.2078	.0150	.0	.0	.0002	.0	.0050	.0	.0	2.0000	.0	.0015
3256XD	74.1	773	21.7	4.1741	.0076	.0	.0	.0109	.0	.0019	.0	.0008	3.2609	.0	.0054
				23. Eureka Creek, below Pioneer Creek, #1; unsorted											
3187A	85.6	886	11.0	3.4124	.0033	.0	.0	.0022	.0	.0019	.0	.0	3.2967	.0	.0011
3187B	87.3	892	10.5	2.1862	.0053	.0	.0	.0005	.0	.0	.0	.0	2.1053	.0	.0011
3187C	80.9	837	15.8	3.3330	.0053	.0	.0	.0005	.0	.0	.0	.0	3.1579	.0	.0032
3187D	88.6	905	9.3	2.0862	.0065	.0	.0	.0009	.0	.0016	.0	.0	1.8587	.0	.0046
3187E	81.6	856	13.7	4.6897	.0046	.0	.0	.0005	.0	.0	.0	.0	4.5788	.0	.0014
				24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh											
3281A	84.8	860	13.9	1.2879	.0139	.0	.0	.0014	.0	.0016	.0	.0	.9242	.0	.0009
3281B	84.1	845	15.4	.5676	.0102	.0	.0	.0031	.0	.0018	.0	.0	.3074	.0	.0010
3281C	84.8	856	14.3	.8888	.0067	.0	.0	.0010	.0	.0	.0	.0	.4762	.0	.0014
3281TA	78.6	804	19.1	2.2712	.0096	.0	.0	.0010	.0	.0029	.0	.0	1.9120	.0	.0014

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
				20. Bench between Rhode Island/Glenn Creeks; unsorted --Continued												
3199A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3199B	.0	.0224	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3199C	.0	.0	.0	.0	.0	.0	.0031	.0	.0	.0	.0	.0	.0021	.0	.0	.0
3199D	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
				21. Rhode Island Creek, lower; plus 20-mesh --Continued												
3278A	.0	.0	.0	.0	.0	.0	.0025	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278C	.0	.0	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0
3278D	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278BA	.0	.0	.0	.0	.0	.0	.0013	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278BB	.0023	.0	.0	.0	.0	.0	.0017	.0	.0006	.0	.0023	.0	.0	.0	.0	.0
3278BD	.0011	.0	.0	.0	.0	.0	.0008	.0	.0	.0	.0011	.0	.0	.0	.0	.0
3278Q1A	.0	.0	.0	.0	.0	.0	.0016	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278Q1B	.0	.0	.0	.0	.0	.0	.0033	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278Q2A	.0	.0	.0	.0	.0	.0	.0011	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278Q2B	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3278Q3	.0	.0	.0	.0	.0	.0	.1000	.0	.0	.0	.0	.0	.0	.0	.0	.0
				22. Bench between Glenn/Eureka Creeks; unsorted --Continued												
3256RA	.0	.0	.0	.0	.0	.0	.0005	.0	.0126	.0	.0	.0	.0	.0	.0	.0
3256RB	.0020	.0	.0	.0	.0	.0	.0008	.0	.0061	.0	.0	.0	.0407	.0	.0	.0
				22. Bench between Glenn/Eureka Creeks; minus 20-mesh, plus 60-mesh --Continued												
3256A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256C	.0	.0	.0	.0	.0	.0	.0020	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256D	.0	.0	.0	.0	.0	.0	.0020	.0	.0	.0	.0	.0	.0	.0	.0	.0002
				22. Bench between Glenn/Eureka Creeks; plus 20-mesh --Continued												
3256XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256XB	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256XC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3256XD	.0	.0	.0	.0	.0	.0	.0011	.0	.0	.0	.0	.0	.0	.0	.0	.0
				23. Eureka Creek, below Pioneer Creek, #1; unsorted --Continued												
3187A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3187B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3187C	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3187D	.0	.0	.0	.0	.0	.0	.0046	.0	.0	.0	.0	.0	.0	.0	.0	.0
3187E	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
				24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh --Continued												
3281A	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281TA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
				20. Bench between Rhode Island/Glenn Creeks; unsorted --Continued										
3199A	.0	.0	.0	.0003	.0150	.0007	.0010	.0	.0500	5.00	3.9	7,791	2,000	389.6
3199B	.0	.0	.0	.0022	.2242	.0022	.0022	.0011	.2242	4.46	4.8	7,225	1,500	429.7
3199C	.0	.0	.0	.0015	.1033	.0072	.0031	.0021	.3099	4.84	5.3	11,334	2,143	731.4
3199D	.0	.0	.0	.0009	.0446	.0018	.0013	.0	.1339	5.60	4.5	12,826	2,857	718.3
				21. Rhode Island Creek, lower; plus 20-mesh --Continued										
3278A	.0	.0	.0	.0008	.0847	.0042	.0017	.0	.1695	5.90	4.8	6,377	1,333	376.3
3278B	.0	.0	.0	.0002	.0500	.0070	.0010	.0030	.1500	5.00	3.9	7,777	2,000	388.9
3278C	.0	.0	.0	.0001	.0132	.0026	.0013	.0	.0658	3.80	4.0	8,675	2,143	439.5
3278D	.0	.0	.0	.0002	.0287	.0048	.0010	.0	.1434	5.23	4.2	5,560	1,333	290.8
3278BA	.0	.0	.0	.0009	.1284	.0060	.0017	.0060	1.7123	5.84	4.6	9,261	2,000	540.8
3278BB	.0	.0	.0	.0229	2.2883	.0343	.0229	.0057	.3432	4.37	4.5	6,695	1,500	390.1
3278BD	.0	.0	.0	.0109	1.0941	.0219	.0109	.0033	.7659	4.57	4.6	9,946	2,143	606.0
3278Q1A	.0	.0	.0	.0011	.1125	.0322	.0032	.0080	1.6077	3.11	3.0	4,509	1,500	187.0
3278Q1B	.0	.0	.0	.0022	.3348	.0670	.0045	.0223	4.4643	2.24	3.2	3,209	1,000	143.8
3278Q2A	.0	.0	.0	.0022	.1101	.0330	.0044	.0066	3.3040	2.27	3.4	4,817	1,429	218.7
3278Q2P	.0	.0	.0	.0021	.1042	.0313	.0021	.0	2.0833	2.40	3.7	5,260	1,429	252.5
3278Q3	.0	.0	.0	.0020	.3000	.0500	.0015	.0070	2.0000	5.00	5.4	11,647	2,143	776.4
				22. Bench between Glenn/Eureka Creeks; unsorted --Continued										
3256RA	.0	.0	.0	.0013	.1263	.0126	.0013	.0126	.2525	3.96	6.6	13,170	2,000	1,043.1
3256RB	.0	.0	.0	.0102	.6098	.0203	.0061	.1016	.3049	2.46	5.7	7,927	1,400	557.1
				22. Bench between Glenn/Eureka Creeks; minus 20-mesh, plus 60-mesh --Continued										
3256A	.0	.0	.0	.0002	.0200	.0020	.0010	.0	.1000	5.00	5.3	15,974	3,000	1,065.0
3256B	.0	.0	.0	.0020	.2000	.0050	.0020	.0010	.3000	5.00	5.5	4,122	750	274.8
3256C	.0	.0	.0	.0005	.0500	.0050	.0020	.0010	.1500	5.00	5.5	5,451	1,000	363.4
3256D	.0	.0	.0	.0010	.2000	.0150	.0050	.0050	.7000	5.00	5.5	5,470	1,000	364.7
				22. Bench between Glenn/Eureka Creeks; plus 20-mesh --Continued										
3256XA	.0	.0	.0	.0004	.0177	.0044	.0013	.0	.1773	5.64	4.4	8,756	2,000	493.8
3256XB	.0	.0	.0	.0004	.0610	.0174	.0013	.0	.2613	5.74	4.5	17,880	4,000	1,026.3
3256XC	.0	.0	.0	.0002	.0300	.0030	.0015	.0010	.1500	5.00	3.9	5,186	1,333	259.3
3256YD	.0	.0	.0	.0008	.1087	.0109	.0022	.0022	.7609	4.60	3.4	9,737	2,857	447.9
				23. Eureka Creek, below Pioneer Creek, #1; unsorted --Continued										
3187A	.0	.0	.0	.0005	.0220	.0033	.0022	.0016	.0769	4.55	7.8	25,965	3,333	2,362.8
3187B	.0	.0	.0	.0002	.0158	.0021	.0021	.0009	.0526	4.75	8.3	16,585	2,000	1,575.5
3187C	.0	.0	.0	.0005	.0526	.0032	.0021	.0021	.1053	4.75	5.1	15,367	3,000	973.2
3187D	.0	.0	.0	.0019	.0929	.0186	.0019	.0009	.0929	5.38	9.5	13,622	1,429	1,465.7
3187E	.0	.0	.0	.0002	.0092	.0014	.0018	.0	.0916	5.46	5.9	17,816	3,000	1,297.0
				24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh --Continued										
3281A	.0	.0	.0	.0014	.1386	.0139	.0018	.0046	.1848	5.41	6.1	6,120	1,000	441.5
3281B	.0	.0	.0	.0007	.0717	.0102	.0020	.0051	.1537	4.88	5.5	8,205	1,500	533.8
3281C	.0	.0	.0	.0010	.0952	.0143	.0019	.0048	.2857	5.25	5.9	12,724	2,143	890.7
3281TA	.0	.0	.0	.0003	.1434	.0067	.0014	.0008	.1912	5.23	4.1	8,222	2,000	430.0

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh --Continued										
3281TP	82.1	842	15.4	2.5015	.0072	.0	.0	.0021	.0	.0	.0	.0	2.0534	.0	.0021
3281TC	80.7	816	18.1	1.1390	.0136	.0	.0	.0009	.0	.0064	.0	.0	.9074	.0	.0014
3281QA	78.8	795	20.4	.8783	.0071	.0	.0	.0010	.0	.0018	.0	.0	.3055	.0	.0
3281QB	71.7	756	23.2	5.0778	.0099	.0	.0	.0017	.0	.0	.0	.0	.9934	.0	.0
3281SA	79.0	795	20.4	.6248	.0153	.0	.0	.0010	.0	.0102	.0	.0	.5092	.0	.0
3281SB	79.3	800	19.8	.8890	.0149	.0	.0	.0010	.0	.0030	.0	.0	.6931	.0	.0010
3281SC	79.5	805	19.3	1.1658	.0097	.0	.0	.0007	.0	.0048	.0	.0	.9653	.0	.0014
				24. Eureka Creek, below Pioneer Creek, #2; minus 60-mesh, plus 100-mesh										
3281AA	92.2	928	7.1	.7155	.0071	.0	.0	.0030	.0041	.0	.0	.0071	.5081	.0	.0010
3281AB	89.3	899	10.0	.6735	.0070	.0	.0	.0010	.0	.0030	.0	.0003	.5000	.0	.0010
3281AC	89.3	899	10.0	.6905	.0150	.0	.0	.0020	.0	.0018	.0	.0002	.3000	.0	.0020
				24. Eureka Creek, below Pioneer Creek, #2; minus 100-mesh, plus 160-mesh										
3281BA	89.8	904	9.6	.6305	.0144	.0	.0	.0014	.0096	.0	.0	.0067	.2874	.0	.0048
3281BB	90.2	909	9.0	.8518	.0135	.0	.0	.0018	.0	.0	.0	.0090	.4496	.0	.0013
3281BC	88.9	899	10.0	1.1159	.0150	.0	.0	.0020	.0	.0	.0	.0070	.7000	.0	.0015
				24. Eureka Creek, below Pioneer Creek, #2; minus 160-mesh, plus 400-mesh										
3281CA	92.1	929	7.0	.8660	.0200	.0	.0	.0020	.0040	.0	.0	.0070	.2000	.0	.0030
3281CB	89.1	902	9.7	1.1966	.0146	.0	.0	.0971	.0039	.0017	.0	.0049	.4854	.0	.0029
3281CC	92.4	936	6.4	1.2319	.0136	.0	.0	.0018	.0036	.0	.0	.0454	.4537	.0	.0045
				25. Alameda Creek; minus 20-mesh; spherical grains										
3168A	74.9	789	20.0	5.1395	.0070	.0	.0	.0010	.0	.0050	.0	.0	5.0000	.0	.0010
3168B	86.8	897	10.0	3.1946	.0050	.0	.0	.0007	.0	.0018	.0	.0	3.0000	.0	.0015
3168C	80.4	847	14.6	5.0404	.0029	.0	.0	.0010	.0	.0	.0	.0	4.8544	.0	.0015
				25. Alameda Creek; plus 20-mesh; spherical grains										
3168XA	76.2	810	17.9	5.9915	.0024	.0	.0	.0006	.0	.0021	.0	.0	5.9524	.0	.0
3168XB	84.4	877	11.8	3.7862	.0059	.0	.0	.0012	.0	.0035	.0	.0	3.5461	.0	.0024
3168XC	83.1	848	14.9	2.0395	.0070	.0	.0	.0007	.0	.0	.0	.0	1.9881	.0	.0
				25. Alameda Creek; minus 20-mesh; flat thin worn flakes										
3168RA	86.5	894	10.3	3.2154	.0031	.0	.0	.0005	.0	.0	.0	.0	3.0801	.0	.0007
3168RB	85.7	879	11.8	2.4503	.0059	.0	.0	.0006	.0	.0021	.0	.0	2.3641	.0	.0008
3168RC	80.3	868	12.3	7.4547	.0037	.0	.0	.0006	.0	.0021	.0	.0	7.3529	.0	.0009
				25. Alameda Creek; minus 20-mesh; crinkly, delicate, little worn										
3168SA	86.0	890	10.6	3.3218	.0074	.0	.0	.0053	.0	.0	.0	.0	2.1277	.0	.0032
3168SB	78.4	816	17.7	3.8462	.0083	.0	.0	.0008	.0	.0024	.0	.0	3.5461	.0	.0006
3168SC	87.2	899	9.8	3.0426	.0068	.0	.0	.0010	.0	.0029	.0	.0	2.9354	.0	.0010
3168TA	82.8	854	14.2	2.9815	.0066	.0	.0	.0009	.0	.0017	.0	.0	2.8409	.0	.0009
3168TB	84.9	895	10.0	5.1202	.0030	.0	.0	.0007	.0	.0	.0	.0	5.0000	.0	.0007
3168TC	86.4	897	9.9	3.6775	.0030	.0	.0	.0005	.0	.0017	.0	.0	2.9644	.0	.0007

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh --Continued																
3281TB	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281TC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281QA	.0	.0	.0	.0	.0	.0010	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281QB	.0	.0	.0	.0	.0	.0	.0166	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281SA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281SB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281SC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
24. Eureka Creek, below Pioneer Creek, #2; minus 60-mesh, plus 100-mesh --Continued																
3281AA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281AB	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281AC	.0	.0	.0	.0	.0	.0	.0010	.0	.0005	.0	.0	.0	.0	.0	.0	.0
24. Eureka Creek, below Pioneer Creek, #2; minus 100-mesh, plus 160-mesh --Continued																
3281BA	.0005	.0	.0	.0	.0	.0	.0007	.0	.0004	.0	.0	.0004	.0	.0	.0	.0
3281BB	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3281BC	.0	.0020	.0	.0	.0	.0	.0150	.0	.0	.0	.0	.0004	.0	.0	.0	.0
24. Eureka Creek, below Pioneer Creek, #2; minus 160-mesh, plus 400-mesh --Continued																
3281CA	.0	.0	.0	.0	.0	.0	.0010	.0	.0500	.0	.0	.0010	.0100	.0	.0	.0
3281CB	.0	.0068	.0	.0	.0	.0	.0010	.0	.0291	.0	.0146	.0004	.0049	.0	.0	.0004
3281CC	.0	.0018	.0	.0	.0	.0	.0009	.0	.0454	.0	.0008	.0006	.0064	.0	.0	.0
25. Alameda Creek; minus 20-mesh; spherical grains --Continued																
3168A	.0	.0015	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168C	.0	.0	.0	.0	.0	.0	.0049	.0	.0	.0	.0	.0	.0	.0	.0	.0
25. Alameda Creek; plus 20-mesh; spherical grains --Continued																
3168XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168XB	.0	.0006	.0	.0	.0	.0	.0006	.0	.0	.0	.0010	.0	.0	.0	.0	.0
3168XC	.0	.0005	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
25. Alameda Creek; minus 20-mesh; flat thin worn flakes --Continued																
3168RA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168RB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168RC	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
25. Alameda Creek; minus 20-mesh; crinkly, delicate, little worn --Continued																
3168SA	.0	.0011	.0	.0	.0	.0	.0011	.0	.0	.0	.0009	.0	.0	.0	.0	.0002
3168SB	.0	.0012	.0	.0	.0	.0	.0018	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168SC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168TA	.0	.0009	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168TB	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3168TC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0001

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
			24. Eureka Creek, below Pioneer Creek, #2; minus 20-mesh, plus 60-mesh --Continued											
3281TB	.0	.0	.0	.0005	.1027	.0205	.0021	.0021	.3080	4.87	5.3	11,423	2,143	741.8
3281TC	.0	.0	.0	.0003	.0635	.0045	.0018	.0027	.1361	5.51	4.4	5,930	1,333	326.7
3281QA	.0	.0	.0	.0003	.0305	.0153	.0031	.0031	.5092	4.91	3.9	11,048	2,857	542.5
3281QB	.0	.0	.0	.0033	.6623	.0662	.0066	.0066	3.3113	1.51	3.1	7,222	2,333	311.6
3281SA	.0	.0	.0	.0002	.0305	.0051	.0015	.0009	.0509	4.91	3.9	5,172	1,333	254.0
3281SB	.0	.0	.0	.0002	.0198	.0050	.0015	.0008	.1485	5.05	4.0	5,340	1,333	269.7
3281SC	.0	.0	.0	.0002	.0290	.0068	.0019	.0008	.1448	5.18	4.1	8,239	2,000	426.8
			24. Eureka Creek, below Pioneer Creek, #2; minus 60-mesh, plus 100-mesh --Continued											
3281AA	.0	.0	.0	.0003	.0711	.0071	.0020	.0020	.1016	4.92	13.0	12,957	1,000	1,821.3
3281AP	.0	.0	.0	.0005	.0500	.0070	.0020	.0010	.1000	5.00	8.9	12,761	1,429	1,276.1
3281AC	.0	.0	.0	.0010	.1500	.0100	.0020	.0050	.2000	5.00	8.9	5,954	667	595.4
			24. Eureka Creek, below Pioneer Creek, #2; minus 100-mesh, plus 160-mesh --Continued											
3281BA	.0	.0	.0	.0007	.1437	.0096	.0019	.0048	.1437	5.22	9.4	6,249	667	652.4
3281BB	.0	.0	.0	.0009	.1799	.0090	.0018	.0045	.1799	5.56	10.0	6,684	667	743.2
3281BC	.0	.0	.0	.0010	.1500	.0100	.0050	.0070	.2000	5.00	8.9	5,926	667	592.6
			24. Eureka Creek, below Pioneer Creek, #2; minus 160-mesh, plus 400-mesh --Continued											
3281CA	.0	.0	.0	.0030	.2000	.0100	.0050	.0500	.3000	5.00	13.2	4,607	350	658.1
3281CB	.0	.0	.0	.0019	.1942	.0097	.0029	.0291	.2913	5.15	9.2	6,118	667	630.1
3281CC	.0	.0	.0	.0045	.2722	.0091	.0045	.0907	.2722	5.51	14.5	6,789	467	1,068.9
			25. Alameda Creek; minus 20-mesh; spherical grains --Continued											
3168A	.0	.0	.0	.0001	.0150	.0020	.0050	.0015	.1000	5.00	3.7	10,694	2,857	534.7
3168B	.0	.0	.0	.0002	.0200	.0050	.0050	.0050	.1500	5.00	8.7	17,361	2,000	1,736.1
3168C	.0	.0	.0	.0001	.0194	.0029	.0049	.0029	.1456	5.15	5.5	27,603	5,000	1,895.4
			25. Alameda Creek; plus 20-mesh; spherical grains --Continued											
3168XA	.0	.0	.0	.0001	.0060	.0012	.0018	.0012	.0238	4.20	4.3	31,984	7,500	1,791.1
3168XB	.0	.0	.0	.0004	.0591	.0355	.0059	.0059	.1182	4.23	7.1	14,279	2,000	1,208.0
3168XC	.0	.0	.0	.0001	.0070	.0015	.0030	.0015	.0298	5.03	5.6	11,935	2,143	800.5
			25. Alameda Creek; minus 20-mesh; flat thin worn flakes --Continued											
3168RA	.0	.0	.0	.0001	.0205	.0031	.0031	.0010	.1027	4.87	8.4	28,089	3,333	2,735.9
3168RB	.0	.0	.0	.0001	.0118	.0018	.0035	.0	.0591	4.23	7.3	14,505	2,000	1,227.2
3168RC	.0	.0	.0	.0001	.0245	.0018	.0025	.0037	.0613	4.08	6.6	21,839	3,333	1,782.1
			25. Alameda Creek; minus 20-mesh; crinkly, delicate, little worn --Continued											
3168SA	.0	.0	.0	.0005	.0745	.0213	.0074	.0074	1.0638	4.70	8.1	11,554	1,429	1,086.1
3168SB	.0	.0	.0	.0002	.0355	.0035	.0059	.0035	.2364	4.23	4.4	9,478	2,143	534.6
3168SC	.0	.0	.0	.0001	.0196	.0029	.0029	.0010	.0685	5.11	8.9	12,727	1,429	1,300.7
3168TA	.0	.0	.0	.0002	.0284	.0028	.0028	.0	.0947	5.28	5.8	12,493	2,143	879.5
3168TB	.0	.0	.0	.0001	.0100	.0030	.0020	.0	.1000	5.00	8.5	28,293	3,333	2,829.3
3168TC	.0	.0	.0	.0001	.0099	.0030	.0020	.0	.6917	5.06	8.7	29,159	3,333	2,950.9

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				25. Alameda Creek; plus 20-mesh; crinkly, delicate, little worn											
3186A	81.9	845	15.0	3.1257	.0030	.0	.0	.0003	.0	.0018	.0	.0	3.0000	.0	.0010
3186B	76.6	815	17.4	5.9967	.0058	.0	.0	.0003	.0	.0023	.0	.0	5.7870	.0	.0008
3186C	82.1	860	13.4	4.5089	.0089	.0	.0	.0009	.0	.0	.0	.0	4.4643	.0	.0004
3186D	76.4	816	17.2	6.3763	.0023	.0	.0	.0008	.0	.0	.0	.0	5.7471	.0	.0023
3186E	82.1	875	11.8	6.1143	.0018	.0	.0	.0006	.0	.0	.0	.0	5.8824	.0	.0018
				26. Eureka Creek; above American Creek, unsorted											
3192NA	84.4	894	10.0	5.6444	.0050	.0	.0	.3000	.0	.0	.0	.0005	5.0000	.0	.0070
3192NB	86.3	937	5.8	7.8922	.0039	.0	.0	.9690	.0	.0	.0	.0029	5.8140	.0	.0
3192A	84.8	894	10.0	5.2142	.0020	.0	.0	.0100	.0	.0	.0	.0100	5.0000	.0	.0005
3192B	85.9	896	10.0	4.1265	.0030	.0	.0	.7000	.0	.0	.0	.0050	3.0000	.0	.0010
3192C	84.8	894	10.0	5.2457	.0030	.0	.0	.0050	.0	.0	.0	.0	5.0000	.0	.0015
3192D	86.2	896	10.0	3.8235	.0150	.0	.0	.3000	.0	.0	.0	.0010	3.0000	.0	.0015
3192E	86.7	897	10.0	3.3360	.0070	.0	.0	.1000	.0	.0020	.0	.0003	3.0000	.0	.0015
				27. Eureka Creek bench, above American Creek; unsorted											
3193A	82.9	847	15.0	2.1357	.0030	.0	.0	.0010	.0	.0	.0	.0	2.0000	.0	.0010
3193B	84.5	871	12.5	3.0473	.0025	.0	.0	.0025	.0	.0042	.0	.0004	2.5000	.0	.0017
3193C	83.3	861	13.4	3.3316	.0045	.0	.0	.0268	.0	.0	.0	.0006	2.6786	.0	.0027
				28. Eureka Creek, above Boston Creek, below Unanimus Creek; unsorted											
3190A	85.9	889	10.8	3.3223	.0075	.0	.0	.0011	.0	.0054	.0	.0005	3.2258	.0	.0008
3190B	86.4	894	10.3	3.2988	.0072	.0	.0	.0021	.0	.0051	.0	.0010	3.0801	.0	.0021
3190C	88.5	904	9.4	2.1460	.0047	.0	.0	.0014	.0	.0	.0	.0003	1.8797	.0	.0019
3190D	85.4	887	10.9	3.7366	.0054	.0	.0	.0076	.0	.0	.0	.0008	3.2609	.0	.0016
3191A	84.9	895	10.0	5.1018	.0020	.0	.0	.0010	.0	.0	.0	.0002	5.0000	.0	.0010
3191B	79.8	842	15.0	5.2374	.0030	.0	.0	.0010	.0	.0	.0	.0	5.0000	.0	.0010
				29. Boston Creek; unsorted											
3189A	86.2	905	9.1	4.7275	.0027	.0	.0	.0009	.0	.0	.0	.0002	4.5455	.0	.0009
3189B	87.3	894	10.4	2.3329	.0031	.0	.0	.0104	.0	.0	.0	.0002	2.0704	.0	.0021
3189C	86.1	890	10.6	3.2643	.0053	.0	.0	.0	.0	.0032	.0	.0	3.1915	.0	.0011
3189D	86.9	897	10.0	3.0947	.0030	.0	.0	.0	.0	.0020	.0	.0	3.0000	.0	.0005
3189E	81.9	845	15.0	3.0872	.0030	.0	.0	.0	.0	.0070	.0	.0002	3.0000	.0	.0005
				30. Eureka Creek, above pioneer Creek, below Poston Creek; unsorted											
3188A	86.9	897	10.0	3.1281	.0020	.0	.0	.0005	.0	.0018	.0	.0	3.0000	.0	.0010
3188B	81.9	845	15.0	3.0695	.0050	.0	.0	.0010	.0	.0018	.0	.0	3.0000	.0	.0010
3188C	86.1	890	10.6	3.2924	.0032	.0	.0	.0053	.0	.0	.0	.0	3.1915	.0	.0016
3188D	86.9	897	10.0	3.0979	.0050	.0	.0	.0005	.0	.0	.0	.0	3.0000	.0	.0015
3188E	87.9	898	10.0	2.0952	.0020	.0	.0	.0005	.0	.0	.0	.0	2.0000	.0	.0010
				31. What Cheer Bar; minus 20-mesh, plus 60-mesh											
3255A	86.9	897	10.0	3.1013	.0050	.0	.0	.0005	.0	.0018	.0	.0	3.0000	.0	.0015
3255B	87.9	898	10.0	2.1402	.0070	.0	.0	.0005	.0	.0	.0	.0	2.0000	.0	.0020
3255C	84.9	895	10.0	5.1284	.0030	.0	.0	.0003	.0	.0018	.0	.0	5.0000	.0	.0010
3255D	89.8	900	10.0	.1758	.0070	.0	.0	.0002	.0	.0020	.0	.0	.0	.0	.0030

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
25. Alameda Creek; plus 20-mesh; crinkly, delicate, little worn --Continued																
3186A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3186B	.0	.0	.0	.0	.0	.0	.0017	.0	.0	.0	.0	.0	.0	.0	.0	.0
3186C	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3186D	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3186E	.0006	.0	.0	.0	.0	.0	.0059	.0	.0	.0	.0010	.0	.0	.0	.0	.0
26. Eureka Creek; above American Creek, unsorted --Continued																
3192NA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0050	.0	.0	.0	.0	.0002
3192NB	.0	.0029	.0	.0	.0	.0	.0010	.0	.0388	.0039	.0016	.0039	.0969	.0	.0	.0
3192A	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0020	.0500	.0	.0	.0002
3192B	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0015	.0	.0	.0	.0	.0	.0
3192C	.0	.0	.0	.0	.0	.0	.0010	.0	.0005	.0	.0	.0	.0	.0	.0	.0
3192D	.0010	.1000	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3192E	.0	.0	.0	.0	.0	.0005	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
27. Eureka Creek bench, above American Creek; unsorted --Continued																
3193A	.0	.0	.0	.0	.0	.0	.0005	.0	.0010	.0	.0	.0	.0	.0	.0	.0
3193B	.0	.0	.0	.0	.0	.0	.0017	.0	.0004	.0	.0	.0	.0	.0	.0	.0002
3193C	.0	.0	.0	.0	.0	.0	.0013	.0	.0	.0	.0	.0	.0	.0	.0	.0002
28. Eureka Creek, above Boston Creek, below Unanimus Creek; unsorted --Continued																
3190A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3190B	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3190C	.0	.0	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0
3190D	.0	.0	.0	.0	.0	.0	.0022	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3191A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3191B	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0002
29. Boston Creek; unsorted --Continued																
3189A	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3189B	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3189C	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3189D	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3189E	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
30. Eureka Creek, above pioneer Creek, below Boston Creek; unsorted --Continued																
3188A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0010	.0	.0	.0	.0
3188B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3188C	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3188D	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3188F	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
31. What Cheer Bar; minus 20-mesh, plus 60-mesh --Continued																
3255A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255D	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
25. Alameda Creek; plus 20-mesh; crinkly, delicate, little worn --Continued														
3186A	.0	.0	.0	.0001	.0150	.0030	.0015	.0	.1000	5.00	5.5	27,291	5,000	1,819.4
3186B	.0	.0	.0	.0001	.0174	.0035	.0017	.0023	.1736	4.32	4.4	13,244	3,000	762.8
3186C	.0	.0	.0	.0001	.0045	.0009	.0018	.0	.0268	5.60	6.1	9,195	1,500	686.6
3186D	.0	.0	.0	.0002	.0345	.0057	.0023	.0057	.5747	4.35	4.4	33,226	7,500	1,927.1
3186E	.0	.0	.0	.0004	.0235	.0118	.0024	.0059	.1765	4.25	7.0	46,535	6,667	3,955.5
26. Eureka Creek; above American Creek, unsorted --Continued														
3192NA	.0	.0	.0	.0020	.1500	.0150	.0070	.0020	.1500	5.00	8.4	16,871	2,000	1,687.1
3192NB	.0	.0	.0	.0388	.5814	.0291	.0136	.0969	.1938	2.58	14.8	22,264	1,500	3,829.4
3192A	.0	.0	.0	.0015	.0200	.0100	.0050	.0020	.1000	5.00	8.5	42,393	5,000	4,239.3
3192B	.0	.0	.0	.0030	.1500	.0070	.0050	.1000	.1500	5.00	8.6	28,625	3,333	2,862.5
3192C	.0	.0	.0100	.0007	.0500	.0100	.0070	.0070	.1500	5.00	8.5	28,251	3,333	2,825.1
3192D	.0	.0	.0040	.0050	.2000	.0100	.0050	.0300	.1500	5.00	8.6	5,745	667	574.5
3192F	.0	.0	.0	.0020	.1000	.0100	.0070	.0050	.1000	5.00	8.7	12,381	1,429	1,238.1
27. Eureka Creek bench, above American Creek; unsorted --Continued														
3193A	.0	.0	.0	.0002	.0200	.0070	.0020	.0	.1000	5.00	5.5	27,621	5,000	1,841.4
3193B	.0	.0	.0	.0004	.0833	.0167	.0125	.0042	.4167	6.00	6.8	33,781	5,000	2,702.5
3193C	.0	.0	.0	.0009	.1339	.0179	.0089	.0089	.4464	5.60	6.2	18,654	3,000	1,392.8
28. Eureka Creek, above Boston Creek, below Unanimus Creek; unsorted --Continued														
3190A	.0	.0	.0	.0002	.0215	.0022	.0016	.0016	.0538	4.65	8.0	11,416	1,429	1,061.7
3190B	.0	.0	.0	.0010	.0719	.0103	.0072	.0072	.1027	4.87	8.4	12,027	1,429	1,171.4
3190C	.0	.0	.0	.0009	.0282	.0141	.0188	.0066	.1880	5.32	9.4	18,823	2,000	2,002.8
3190D	.0	.0	.0	.0011	.0761	.0217	.0217	.0109	.3261	4.60	7.9	15,712	2,000	1,445.5
3191A	.0	.0	.0	.0002	.0200	.0030	.0020	.0020	.0700	5.00	8.5	42,449	5,000	4,244.9
3191B	.0	.0	.0	.0005	.0500	.0100	.0700	.0010	.1000	5.00	5.3	26,588	5,000	1,772.5
29. Boston Creek; unsorted --Continued														
3189A	.0	.0	.0	.0003	.0273	.0091	.0027	.0009	.1364	5.50	9.5	31,600	3,333	3,476.0
3189B	.0	.0	.0	.0007	.0725	.0104	.0021	.0052	.1553	4.83	8.4	28,115	3,333	2,716.0
3189C	.0	.0	.0	.0	.0053	.0016	.0016	.0011	.0532	4.70	8.1	16,186	2,000	1,521.5
3189D	.0	.0	.0	.0015	.0300	.0030	.0020	.0020	.0500	5.00	8.7	28,968	3,333	2,896.8
3189E	.0	.0	.0	.0001	.0200	.0030	.0015	.0015	.0500	5.00	5.5	27,304	5,000	1,820.3
30. Eureka Creek, above pioneer Creek, below Boston Creek; unsorted --Continued														
3188A	.0	.0	.0	.0005	.0150	.0030	.0020	.0010	.1000	5.00	8.7	43,436	5,000	4,343.6
3188B	.0	.0	.0	.0002	.0070	.0015	.0020	.0	.0500	5.00	5.5	16,386	3,000	1,092.4
3188C	.0	.0	.0	.0002	.0106	.0021	.0021	.0009	.0745	4.70	8.1	26,968	3,333	2,535.0
3188D	.0	.0	.0	.0005	.0150	.0020	.0020	.0010	.0700	5.00	8.7	17,380	2,000	1,738.0
3188E	.0	.0	.0	.0003	.0150	.0020	.0020	.0020	.0700	5.00	8.8	43,952	5,000	4,395.2
31. What Cheer Bar; minus 20-mesh, plus 60-mesh --Continued														
3255A	.0	.0	.0	.0001	.0150	.0030	.0020	.0020	.0700	5.00	8.7	17,380	2,000	1,738.0
3255B	.0	.0	.0	.0002	.0200	.0050	.0030	.0020	.1000	5.00	8.8	12,551	1,429	1,255.1
3255C	.0	.0	.0	.0001	.0150	.0020	.0030	.0015	.1000	5.00	8.5	28,291	3,333	2,829.1
3255D	.0	.0	.0	.0001	.0100	.0010	.0020	.0	.1500	5.00	9.0	12,832	1,429	1,283.2

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					31. What Cheer Bar; plus 20-mesh										
3255XA	86.8	897	10.0	3.1812	.0030	.0	.0	.0003	.0	.0	.0	.0	3.0000	.0	.0020
3255XB	88.4	909	8.8	2.7915	.0026	.0	.0	.0018	.0	.0	.0	.0	2.6408	.0	.0013
3255XC	82.9	867	12.7	4.4254	.0025	.0	.0	.0004	.0	.0	.0	.0	4.2230	.0	.0017
3255XD	85.0	883	11.3	3.7596	.0034	.0	.0	.0006	.0	.0056	.0	.0	3.3860	.0	.0006
					32. Pioneer Creek bench at Doric Creek; minus 20-mesh, plus 60-mesh; flat ,thin										
3159A	86.9	897	10.0	3.1321	.0050	.0	.0	.0007	.0	.0018	.0	.0	3.0000	.0	.0010
3159B	84.8	895	10.0	5.1718	.0050	.0	.0	.0200	.0	.0018	.0	.0002	5.0000	.0	.0010
3159C	84.8	895	10.0	5.1874	.0050	.0	.0	.0015	.0	.0	.0	.0	5.0000	.0	.0010
					32. Pioneer Creek bench at Doric Creek; plus 20-mesh; blocky										
3159XA	87.5	886	11.2	1.2527	.0079	.0	.0	.0008	.0	.0	.0	.0	1.1236	.0	.0017
3159XB	85.4	870	12.8	1.7881	.0060	.0	.0	.0004	.0	.0017	.0	.0	1.7065	.0	.0013
3159XC	84.3	861	13.6	2.0620	.0064	.0	.0	.0005	.0	.0	.0	.0	1.8182	.0	.0045
					32. Pioneer Creek bench at Doric Creek; minus 60-mesh										
3159MA	86.8	897	10.0	3.2110	.0030	.0	.0	.0050	.0	.0	.0	.0	3.0000	.0	.0015
3159MB	86.7	897	10.0	3.2650	.0030	.0	.0	.0100	.0	.0	.0	.0005	3.0000	.0	.0005
3159MC	86.6	897	10.0	3.3552	.0030	.0	.0	.0030	.0	.0	.0	.0070	3.0000	.0	.0005
					32. Pioneer Creek bench at Doric Creek; minus 100-mesh, plus 160-mesh										
3159RA	86.8	897	10.0	3.1964	.0070	.0	.0	.0070	.0	.0020	.0	.0050	3.0000	.0	.0007
3159RB	86.7	897	10.0	3.3117	.0100	.0	.0	.0070	.0	.0	.0	.0150	3.0000	.0	.0010
3159RC	84.6	894	10.0	5.3602	.1000	.0	.0	.0150	.0	.0018	.0	.0030	5.0000	.0	.0007
					32. Pioneer Creek bench at Doric Creek; minus 160-mesh										
3159SA	87.4	897	10.0	2.5862	.1000	.0500	.0	.0700	.0	.0030	.0	.0150	2.0000	.0	.0020
3159SB	89.4	927	7.0	3.5974	.0700	.0300	.0	.0070	.0	.0	.0	.0030	3.0000	.0	.0015
3159SC	84.4	894	10.0	5.6497	.1000	.0500	.0	.0300	.0	.0	.0	.0100	5.0000	.0	.0020
					33. Seattle Jr. creek; unsorted										
3194A	80.1	823	17.2	2.6262	.0060	.0	.0	.0009	.0	.0	.0	.0	1.7241	.0	.0060
3194B	77.3	802	19.0	3.6946	.0095	.0	.0	.0003	.0	.0	.0	.0	2.8571	.0	.0029
3194C	80.2	835	15.9	3.9107	.0053	.0	.0	.0002	.0	.0	.0	.0	3.1780	.0	.0053
3194MA	79.2	835	15.7	5.1539	.0052	.0	.0	.0021	.0	.0	.0	.0	3.1381	.0	.0052
3194MB	79.8	821	17.4	2.8230	.0061	.0	.0	.0061	.0	.0015	.0	.0	1.7422	.0	.0026
3194MC	78.7	805	19.0	2.2137	.0067	.0	.0	.0005	.0	.0017	.0	.0	1.9048	.0	.0048
					34. Skookum Creek; unsorted										
3195A	81.6	845	15.0	3.3921	.0070	.0	.0	.0005	.0	.0	.0	.0	3.0000	.0	.0020
3195B	81.7	845	15.0	3.3142	.0070	.0	.0	.0100	.0	.0	.0	.0002	3.0000	.0	.0050
3195C	69.1	718	27.2	3.7627	.0091	.0	.0	.0018	.0	.0	.0	.0009	2.7174	.0	.0027
3195D	77.7	817	17.4	4.8747	.0043	.0	.0	.0002	.0	.0	.0	.0	4.3478	.0	.0013
					35. North Fork Pioneer Creek; unsorted, #1										

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
31. What Cheer Bar; plus 20-mesh --Continued																
3255XA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255XB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255XC	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3255XD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32. Pioneer Creek bench at Doric Creek; minus 20-mesh, plus 60-mesh; flat ,thin --Continued																
3159A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3159B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0002
3159C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
32. Pioneer Creek bench at Doric Creek; plus 20-mesh; blocky --Continued																
3159XA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3159XB	.0	.0	.0	.0	.0	.0	.0003	.0	.0	.0	.0	.0	.0	.0	.0	.0
3159XC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
32. Pioneer Creek bench at Doric Creek; minus 60-mesh --Continued																
3159MA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3159MB	.0	.0005	.0	.0	.0	.0	.0015	.0	.0030	.0	.0	.0	.0070	.0	.0	.0
3159MC	.0	.0	.0	.0	.0	.0	.0007	.0	.0050	.0	.0	.0010	.0	.0	.0	.0
32. Pioneer Creek bench at Doric Creek; minus 100-mesh, plus 160-mesh --Continued																
3159RA	.0	.0030	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0005	.0	.0	.0	.0
3159RB	.0	.0	.0	.0	.0	.0	.0007	.0	.0100	.0	.0	.0	.0	.0	.0	.0
3159RC	.0	.0200	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0070	.0	.0	.0
32. Pioneer Creek bench at Doric Creek; minus 160-mesh --Continued																
3159SA	.0007	.0020	.0	.0	.0	.0	.0010	.0	.0500	.0	.0	.0010	.0	.0	.0	.0
3159SB	.0	.0100	.0005	.0	.0	.0	.0007	.0	.0700	.0	.0020	.0007	.0050	.0	.0	.0
3159SC	.0	.0100	.0	.0	.0	.0	.0007	.0	.0500	.0	.0030	.0020	.0100	.0	.0	.0
33. Seattle Jr. creek; unsorted --Continued																
3194A	.0	.0	.0	.0	.0	.0	.0009	.0	.0	.0	.0007	.0	.0	.0	.0	.0
3194B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3194C	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3194MA	.0	.0	.0	.0	.0	.0	.0021	.0	.0	.0	.0	.0	.0	.0	.0	.0002
3194MB	.0	.0	.0	.0	.0	.0	.0013	.0	.0	.0	.0	.0	.0	.0	.0	.0
3194MC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
34. Skookum Creek; unsorted --Continued																
3195A	.0	.0	.0	.0	.0	.0	.0015	.0	.0	.0	.0	.0	.0	.0	.0	.0002
3195B	.0	.0	.0	.0	.0	.0	.0015	.0	.0	.0	.0	.0	.0	.0	.0	.0
3195C	.0	.0	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0
3195D	.0	.0	.0	.0	.0	.0	.0013	.0	.0	.0	.0	.0	.0	.0	.0	.0
35. North Fork Pioneer Creek; unsorted, #1 --Continued																

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
31. What Cheer Bar; plus 20-mesh --Continued														
3255XA	.0	.0	.0	.0002	.0150	.0050	.0050	.0	.1500	5.00	8.7	28,940	3,333	2,894.0
3255XB	.0	.0	.0	.0001	.0088	.0018	.0018	.0	.1320	5.68	10.0	33,476	3,333	3,802.9
3255XC	.0	.0	.0	.0004	.0591	.0059	.0042	.0008	.1267	5.92	6.5	32,720	5,000	2,582.7
3255XD	.0	.0	.0	.0	.0169	.0023	.0056	.0	.3386	4.43	7.5	25,090	3,333	2,222.9
32. Pioneer Creek bench at Doric Creek; minus 20-mesh, plus 60-mesh; flat ,thin --Continued														
3159A	.0	.0	.0	.0002	.0150	.0050	.0010	.0020	.1000	5.00	8.7	17,374	2,000	1,737.4
3159B	.0	.0	.0	.0002	.0300	.0070	.0030	.0030	.1000	5.00	8.5	16,966	2,000	1,696.6
3159C	.0	.0	.0	.0002	.0200	.0050	.0020	.0020	.1500	5.00	8.5	16,963	2,000	1,696.3
32. Pioneer Creek bench at Doric Creek; plus 20-mesh; blocky --Continued														
3159XA	.0	.0	.0	.0008	.0562	.0034	.0022	.0	.0562	4.45	7.8	11,126	1,429	990.3
3159XB	.0	.0	.0	.0003	.0256	.0017	.0017	.0	.0427	5.86	6.7	14,301	2,143	1,117.4
3159XC	.0	.0	.0	.0001	.0455	.0027	.0018	.0	.1818	5.50	6.2	13,247	2,143	971.5
32. Pioneer Creek bench at Doric Creek; minus 60-mesh --Continued														
3159MA	.0	.0	.0	.0010	.0700	.0070	.0030	.0200	.1000	5.00	8.7	28,930	3,333	2,893.0
3159MB	.0	.0	.0	.0020	.1000	.0050	.0020	.0300	.1000	5.00	8.7	28,912	3,333	2,891.2
3159MC	.0	.0	.0	.0030	.1500	.0050	.0070	.0700	.1000	5.00	8.7	28,882	3,333	2,888.2
32. Pioneer Creek bench at Doric Creek; minus 100-mesh, plus 160-mesh --Continued														
3159RA	.0	.0	.0	.0007	.0700	.0050	.0100	.0150	.0700	5.00	8.7	12,401	1,429	1,240.1
3159RB	.0	.0	.0	.0100	.1000	.0050	.0030	.0500	.1000	5.00	8.7	8,669	1,000	866.9
3159RC	.0	.0	.0	.0020	.1000	.0050	.0050	.0300	.0700	5.00	8.5	846	100	84.6
32. Pioneer Creek bench at Doric Creek; minus 160-mesh --Continued														
3159SA	.0	.0	.0	.0015	.1000	.0070	.0030	.0300	.1500	5.00	8.7	874	100	87.4
3159SB	.0	.0	.0200	.0020	.1500	.0050	.0200	.0500	.1500	5.00	12.8	1,277	100	182.5
3159SC	.0	.0	.0150	.0020	.1500	.0050	.0100	.0500	.1500	5.00	8.4	844	100	84.4
33. Seattle Jr. creek; unsorted --Continued														
3194A	.0	.0	.0	.0043	.4310	.0172	.0026	.0013	.4310	5.80	4.6	13,279	2,857	770.2
3194B	.0	.0	.0	.0010	.1429	.0095	.0029	.0014	.6667	5.25	4.1	8,112	2,000	425.9
3194C	.0	.0	.0	.0074	.3178	.0742	.0032	.0011	.3178	4.72	5.0	15,142	3,000	952.9
3194MA	.0	.0	.0	.0031	.3138	.1046	.0052	.0052	1.5690	4.78	5.0	15,135	3,000	964.6
3194MB	.0	.0	.0	.0013	.1742	.0131	.0017	.0017	.8711	5.74	4.6	13,080	2,857	750.8
3194MC	.0	.0	.0	.0007	.0952	.0048	.0029	.0010	.1905	5.25	4.1	11,811	2,857	620.1
34. Skookum Creek; unsorted --Continued														
3195A	.0	.0	.0	.0010	.0500	.0200	.0070	.0030	.3000	5.00	5.4	11,658	2,143	777.2
3195B	.0	.0	.0	.0020	.0700	.0150	.0020	.0015	.2000	5.00	5.4	11,669	2,143	778.0
3195C	.0	.0	.0	.0014	.0906	.0272	.0018	.0027	.9058	5.52	2.5	7,625	3,000	280.6
3195D	.0	.0	.0	.0006	.0609	.0174	.0017	.0043	.4348	5.75	4.5	17,879	4,000	1,028.0
35. North Fork Pioneer Creek; unsorted, #1 --Continued														

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					35. North Fork Pioneer Creek; unsorted, #1										
3196A	82.8	854	14.2	3.0793	.0028	.0	.0	.0047	.0	.0	.0	.0	2.8302	.0	.0
3196B	83.4	860	13.6	3.0569	.0063	.0	.0	.0005	.0	.0016	.0	.0	2.7125	.0	.0009
3196C	78.5	810	18.5	3.0405	.0065	.0	.0	.0003	.0	.0016	.0	.0	2.7675	.0	.0009
3196D	76.8	793	20.0	3.2410	.0100	.0	.0	.0003	.0	.0070	.0	.0	3.0000	.0	.0010
					35. North Fork Pioneer Creek; unsorted, #2										
3197A	74.8	789	20.0	5.2080	.0050	.0	.0	.0002	.0	.0018	.0	.0	5.0000	.0	.0
3197B	81.8	845	15.0	3.2222	.0100	.0	.0	.0003	.0	.0	.0	.0	3.0000	.0	.0020
3197C	77.5	790	20.5	1.9910	.0072	.0	.0	.0005	.0	.0	.0	.0	1.5400	.0	.0051
3197D	82.7	847	15.0	2.2606	.0070	.0	.0	.0010	.0	.0018	.0	.0	2.0000	.0	.0020
					36. Slate Creek; plus 20-mesh; accreted crystalline grains										
3291X	83.3	889	10.4	6.2635	.1040	.0	.0	.0312	.0042	.0208	.0	.0021	5.1975	.0	.0052
					36. Slate Creek; minus 20-mesh, plus 60-mesh; coated quartz										
3291QA	83.5	889	10.4	6.1622	.0311	.0	.0	.1556	.0104	1.0373	.0	.0021	3.1120	.0	.0016
3291QB	76.5	786	20.8	2.6942	.0104	.0	.0	.0313	.0	.0156	.0	.0	2.0833	.0	.0010
3291QC	81.3	841	15.3	3.4402	.0153	.0	.0	.0306	.0	.0102	.0	.0	2.0408	.0	.0010
					36. Slate Creek; minus 20-mesh, plus 60-mesh; little traveled										
3291RA	77.4	800	19.3	3.2481	.0068	.0	.0	.0193	.0	.0097	.0	.0	2.9014	.0	.0
3291RB	81.6	845	15.0	3.3613	.0150	.0	.0	.0200	.0	.0200	.0	.0002	3.0000	.0	.0010
3291RC	86.9	901	9.5	3.5911	.0477	.0	.0	.0191	.0	.0067	.0	.0005	2.8626	.0	.0005
					36. Slate Creek; minus 20-mesh, plus 60-mesh, light yellow										
3291SA	80.2	837	15.6	4.2530	.0312	.0	.0	.0467	.0	.0156	.0	.0003	3.1153	.0	.0
3291SB	76.3	837	14.8	8.8174	.2967	.0	.0	.0742	.0	.0445	.0	.0	7.4184	.0	.0
					36. Slate Creek; minus 20-mesh, plus 60-mesh; orange and black crystalline aggregates										
3291TA	90.4	926	7.2	2.3724	.0206	.0720	.0	.0103	.0051	.0072	.0	.0	2.0576	.0	.0021
3291TB	81.1	840	15.4	3.4682	.0154	.1540	.0	.1027	.0051	.1027	.0	.0021	2.0534	.0	.0021
3291TC	86.3	894	10.2	3.5484	.0305	.1018	.0	.0204	.0041	.0051	.0	.0	3.0550	.0	.0010
					36. Slate Creek; minus 60-mesh, plus 100-mesh										
3291V	90.6	928	7.0	2.4052	.0200	.0500	.0	.0100	.0040	.0020	.0	.0	1.5000	.0	.0010
					36. Slate Creek; minus 100-mesh										
3291Z	87.7	926	7.0	5.3196	.0980	.0700	.0	1.4006	.0070	.0	.0	.0003	1.4006	.0	.0098
					37. Ruby Creek, #1; unsorted										
3215A	89.9	907	9.3	.8027	.0926	.0	.0	.0046	.0	.0	.0	.0005	.4630	.0	.0
3215B	98.3	994	.6	1.0309	.1779	.0	.0	.4448	.0	.0	.0	.0009	.2669	.0	.0
3215C	92.4	930	7.0	.5712	.1000	.0	.0	.0100	.0	.0	.0	.0005	.3000	.0	.0

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
				35. North Fork Pioneer Creek; unsorted, #1 --Continued												
3196A	.0	.0	.0007	.0	.0	.0	.0009	.0	.0	.0	.0	.0	.0	.0	.0	.0
3196B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3196C	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3196D	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
				35. North Fork Pioneer Creek; unsorted, #2 --Continued												
3197A	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3197B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3197C	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3197D	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
				36. Slate Creek; plus 20-mesh; accreted crystalline grains --Continued												
3291X	.0005	.1040	.0	.0	.0	.0	.0021	.0	.0052	.0	.0	.0	.0	.0	.0	.0
				36. Slate Creek; minus 20-mesh, plus 60-mesh; coated quartz --Continued												
3291QA	.0	.2075	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
3291QB	.0	.0521	.0	.0	.0	.0007	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3291QC	.0	.0714	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0004
				36. Slate Creek; minus 20-mesh, plus 60-mesh; little traveled --Continued												
3291RA	.0	.0193	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3291RB	.0	.0200	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3291RC	.0	.0477	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
				36. Slate Creek; minus 20-mesh, plus 60-mesh, light yellow --Continued												
3291SA	.0	.0779	.0	.0	.0	.0	.0023	.0	.0008	.0	.0	.0	.0	.0	.0	.0008
3291SB	.0	.1484	.0	.0	.0	.0	.0022	.0	.0	.0	.0	.0	.0	.0	.0	.0006
				36. Slate Creek; minus 20-mesh, plus 60-mesh; orange and black crystalline aggregates --Continued												
3291TA	.0	.0103	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3291TB	.0	.1540	.0	.0	.0	.0	.0015	.0	.0005	.0	.0	.0	.0	.0	.0	.0
3291TC	.0	.0153	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
				36. Slate Creek; minus 60-mesh, plus 100-mesh --Continued												
3291V	.0	.0020	.0	.0	.0	.0	.5000	.0	.0	.0	.0150	.0005	.0200	.0	.0	.0
				36. Slate Creek; minus 100-mesh --Continued												
3291Z	.0007	.0028	.0	.0	.0	.0	.1401	.0	.0	.0014	.4202	.0	.0	.0	.0014	.0021
				37. Ruby Creek, #1; unsorted --Continued												
3215A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0006
3215B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3215C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
35. North Fork Pioneer Creek; unsorted, #1 --Continued														
3196A	.0	.0	.0	.0005	.0283	.0189	.0028	.0008	.1887	5.30	5.8	29,245	5,000	2,066.7
3196B	.0	.0	.0	.0006	.1356	.0136	.0027	.0014	.1808	5.53	6.1	13,174	2,143	971.4
3196C	.0	.0	.0	.0028	.0646	.0092	.0014	.0009	.1845	5.42	4.3	12,158	2,857	658.9
3196D	.0	.0	.0	.0003	.0500	.0150	.0050	.0020	.1500	5.00	3.8	7,676	2,000	383.8
35. North Fork Pioneer Creek; unsorted, #2 --Continued														
3197A	.0	.0	.0	.0007	.0300	.0070	.0030	.0100	.1500	5.00	3.7	14,958	4,000	747.9
3197B	.0	.0	.0	.0005	.0500	.0050	.0030	.0010	.1500	5.00	5.5	8,178	1,500	545.2
3197C	.0	.0	.0	.0010	.1027	.0154	.0051	.0051	.3080	4.87	3.8	10,780	2,857	525.0
3197D	.0	.0	.0	.0003	.0300	.0150	.0030	.0	.2000	5.00	5.5	11,820	2,143	788.0
36. Slate Creek; plus 20-mesh; accreted crystalline grains --Continued														
3291X	.0	.0	.0	.0208	.5198	.0156	.0021	.0208	.2079	4.81	8.0	802	100	77.1
36. Slate Creek; minus 20-mesh, plus 60-mesh; coated quartz --Continued														
3291QA	.0	.0	.0	.0104	.5187	.0207	.0156	.0009	1.0373	4.82	8.0	2,682	333	258.5
3291QB	.0	.0	.0	.0156	.3125	.0104	.0021	.0021	.1563	4.80	3.7	7,341	2,000	352.4
3291QC	.0	.0	.0	.0020	.2041	.0306	.0051	.0071	1.0204	4.90	5.3	5,309	1,000	346.8
36. Slate Creek; minus 20-mesh, plus 60-mesh; little traveled --Continued														
3291RA	.0	.0	.0	.0010	.0677	.0193	.0029	.0068	.1934	5.17	4.0	11,435	2,857	591.2
3291RB	.0	.0	.0	.0007	.0700	.0100	.0020	.0020	.2000	5.00	5.4	5,443	1,000	362.8
3291RC	.0	.0	.0	.0048	.2863	.0143	.0048	.0095	.2863	5.24	9.1	1,821	200	190.8
36. Slate Creek; minus 20-mesh, plus 60-mesh, light yellow --Continued														
3291SA	.0	.0	.0	.0011	.0779	.0234	.0031	.0779	.7788	3.21	5.1	2,573	500	165.2
3291SB	.0	.0	.0	.0015	.0445	.0297	.0074	.0074	.7418	3.37	5.1	257	50	17.3
36. Slate Creek; minus 20-mesh, plus 60-mesh; orange and black crystalline aggregates --Continued														
3291TA	.0	.0	.0	.0021	.0720	.0051	.0031	.0015	.1029	4.86	12.6	4,395	350	610.2
3291TB	.0	.0	.0	.0154	.5133	.0205	.0072	.0103	.3080	4.87	5.3	5,268	1,000	342.1
3291TC	.0	.0	.0	.0010	.1527	.0051	.0031	.0	.1527	4.91	8.5	2,824	333	277.3
36. Slate Creek; minus 60-mesh, plus 100-mesh --Continued														
3291V	.0	.0	.0	.0007	.1000	.0200	.0030	.0070	.1500	5.00	12.9	4,530	350	647.1
36. Slate Creek; minus 100-mesh --Continued														
3291Z	.0	.0	.0	.0140	.7003	.2101	.0700	.0700	.7003	3.57	12.5	894	71	127.7
37. Ruby Creek, #1; unsorted --Continued														
3215A	.0	.0	.0	.0006	.0463	.0065	.0028	.0	.1852	5.40	9.7	971	100	104.9
3215B	.0	.0	.0	.0006	.0445	.0044	.0018	.0	.0890	5.62	157.9	553	4	887.5
3215C	.0	.0	.0	.0007	.0500	.0030	.0050	.0020	.1000	5.00	13.2	924	70	132.0

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
					38. Ruby Creek, #2; unsorted										
3282	73.6	746	25.0	1.4500	.0250	.0	.0	.0125	.0	.0	.0	.0	.5000	.0	.0
					39. Hoosier Creek; crystals with quartz										
3276A	96.3	975	2.5	1.2444	.0858	.0086	.0	.0012	.0	.0	.0006	.0	.3676	.0	.0
3276B	96.9	977	2.3	.7536	.0345	.0057	.0	.0017	.0	.0	.0003	.0	.2299	.0	.0011
3276C	96.7	976	2.3	1.0043	.0391	.0039	.0	.0012	.0	.0	.0004	.0	.3906	.0	.0008
3276D	96.5	975	2.5	1.0485	.0414	.0058	.0	.0017	.0	.0	.0002	.0	.4139	.0	.0012
					39. Hoosier Creek; folded crystals with quartz										
3276AA	96.9	978	2.2	.9229	.0764	.0	.0	.0022	.0	.0019	.0	.0002	.5459	.0	.0005
3276AB	96.3	972	2.7	.9831	.0909	.0	.0	.0018	.0	.0016	.0	.0	.6364	.0	.0
3276AC	97.1	979	2.1	.7908	.0728	.0	.0	.0010	.0	.0018	.0	.0	.5198	.0	.0005
3276AD	96.7	982	1.8	1.5842	.0876	.0	.0	.0026	.0	.0	.0	.0002	.8757	.0	.0018
					39. Hoosier Creek; crystals; many impurities										
3276BA	89.7	905	9.4	.8789	.0188	.0	.0	.0047	.0	.0	.0	.0	.4708	.0047	.0
3276BB	84.0	846	15.3	.7380	.0305	.0	.0	.0031	.0	.0	.0	.0	.5092	.0051	.0
3276BC	82.3	829	16.9	.7286	.0339	.0	.0	.0056	.0	.0	.0	.0	.5643	.0079	.0
3276BD	83.5	842	15.6	.8495	.0313	.0	.0	.0052	.0	.0	.0	.0	.7292	.0052	.0
					40. Hunter Creek, #1; unsorted										
3019A	96.4	969	3.0	.5584	.0103	.0	.0	.0517	.0	.0	.0	.0	.1033	.0	.0
3019B	80.1	835	15.8	4.0878	.0099	.0	.0	.0986	.2959	.0197	.0	.0	.1972	.0	.0049
3019C	90.2	918	8.1	1.7024	.0523	.0	.0	.0314	.0	.0	.0	.0	.2092	.0	.0005
3019D	89.4	906	9.2	1.3290	.0070	.0	.0	.0502	.0	.0	.0	.0	.1506	.0	.0007
3019E	97.2	978	2.2	.5629	.0031	.0	.0	.0511	.0	.0	.0	.0	.0716	.0	.0
					41. Hunter Creek, #2; minus 35-mesh										
3020A	91.0	919	8.0	.9396	.0060	.0	.0	.0060	.0	.0	.0	.0	.1794	.0	.0006
					41. Hunter Creek, #2; plus 35-mesh										
3020XA	94.2	947	5.2	.5288	.0060	.0	.0	.0119	.0	.0	.0	.0	.2381	.0	.0006
3020XB	80.7	814	18.4	.8516	.0023	.0	.0	.0173	.0	.0	.0	.0	.2304	.0	.0008
3020XC	92.5	935	6.4	1.0851	.0178	.0	.0	.0267	.0	.0	.0	.0006	.2669	.0	.0009
3020XD	90.9	913	8.6	.5097	.0182	.0	.0	.0182	.0	.0036	.0	.0	.2427	.0	.0
3020XE	97.6	982	1.8	.5653	.0223	.0	.0	.0167	.0	.0	.0	.0	.1116	.0	.0
					42. Hunter Creek, below Dawson Creek; minus 20-mesh, plus 60-mesh										
3214A	95.8	970	3.0	1.2034	.0700	.0	.0	.0050	.0	.0	.0	.0	.5000	.0	.0005
3214B	94.5	950	5.0	.5316	.0500	.0	.0	.0015	.0	.0	.0	.0003	.3000	.0	.0007
3214C	94.3	950	5.0	.7365	.0500	.0	.0	.0010	.0	.0	.0	.0	.5000	.0	.0
					42. Hunter Creek, below Dawson Creek; plus 20-mesh										
3214XA	95.6	971	2.8	1.6250	.2825	.0	.0	.0019	.0	.0	.0	.0	.9416	.0	.0005
3214XB	90.0	910	8.9	1.1004	.0179	.0	.0	.0013	.0	.0018	.0	.0	.8929	.0	.0004

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
38. Ruby Creek, #2; unsorted --Continued																
3282	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1250	.0	.0	.0	.0	.0
39. Hoosier Creek; crystals with quartz --Continued																
3276A	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3276B	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3276C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3276D	.0	.0	.0	.0	.0	.0	.0003	.0	.0	.0	.0	.0	.0	.0	.0	.0004
39. Hoosier Creek; folded crystals with quartz --Continued																
3276AA	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3276AB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0006
3276AC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3276AD	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0013
39. Hoosier Creek; crystals; many impurities --Continued																
3276BA	.0	.0	.0	.0	.0	.0	.0047	.0	.0	.0	.0	.0019	.0141	.0	.0	.0007
3276BB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0007
3276BC	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3276BD	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0004
40. Hunter Creek, #1; unsorted --Continued																
3019A	.0	.0	.0	.0	.0	.0	.0072	.0	.0	.0	.0	.0	.0	.0	.0	.0
3019B	.0020	.0	.0	.0	.0	.0	.0493	.0	.0	.0	.0	.0	.0	.0	.0	.0010
3019C	.0	.0	.0	.0	.0	.0	.0052	.0	.0	.0	.0	.0	.0	.0	.0	.0
3019D	.0	.0	.0	.0	.0	.0	.0030	.0	.0	.0	.0	.0	.0	.0	.0	.0
3019E	.0	.0	.0	.0	.0	.0	.0051	.0	.0	.0	.0	.0	.0	.0	.0	.0010
41. Hunter Creek, #2; minus 35-mesh --Continued																
3020A	.0	.0	.0	.0	.0	.0	.2392	.0	.0	.0	.0	.0	.0	.0	.0	.0
41. Hunter Creek, #2; plus 35-mesh --Continued																
3020XA	.0	.0	.0	.0	.0	.0	.0018	.0	.0	.0	.0	.0	.0	.0	.0	.0
3020XB	.0	.0	.0	.0	.0	.0	.0017	.0	.0	.0	.0	.0	.0	.0	.0	.0
3020XC	.0	.0	.0	.0	.0	.0	.0027	.0	.0	.0	.0	.0	.0	.0	.0	.0
3020XD	.0	.0	.0	.0	.0	.0	.0012	.0	.0	.0	.0	.0	.0	.0	.0	.0
3020XE	.0	.0	.0	.0	.0	.0	.0017	.0	.0	.0	.0	.0	.0	.0	.0	.0
42. Hunter Creek, below Dawson Creek; minus 20-mesh, plus 60-mesh --Continued																
3214A	.0	.0	.0	.0	.0	.0	.0010	.0	.0004	.0	.0	.0	.0	.0	.0	.0
3214B	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3214C	.0	.0	.0	.0	.0	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0
42. Hunter Creek, below Dawson Creek; plus 20-mesh --Continued																
3214XA	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3214XB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
38. Ruby Creek, #2; unsorted --Continued														
3282	.0	.0	.0	.0375	.5000	.0	.0	.0	.2500	.20	2.9	2,942	1,000	117.7
39. Hoosier Creek; crystals with quartz --Continued														
3276A	.0	.0	.0	.0061	.6127	.0613	.0613	.0018	.0368	4.08	39.3	1,123	29	458.0
3276B	.0	.0	.0	.0023	.3448	.0115	.0023	.0034	.1149	4.35	42.2	2,811	67	1,223.0
3276C	.0	.0	.0	.0039	.3906	.0391	.0781	.0016	.0547	6.40	41.2	2,474	60	1,055.7
3276D	.0	.0	.0	.0041	.4139	.0166	.0166	.0083	.1242	6.04	38.8	2,331	60	938.5
39. Hoosier Creek; folded crystals with quartz --Continued														
3276AA	.0	.0	.0	.0055	.1638	.0076	.0033	.0055	.1092	4.58	44.4	1,268	29	580.7
3276AB	.0	.0	.0	.0136	.1364	.0064	.0018	.0027	.0909	5.50	35.3	1,059	30	388.4
3276AC	.0	.0	.0	.0052	.1040	.0052	.0021	.0052	.0728	4.81	46.7	1,335	29	642.1
3276AD	.0	.0	.0	.0131	.4378	.0131	.0131	.0061	.1313	5.71	55.2	1,104	20	630.3
39. Hoosier Creek; crystals; many impurities --Continued														
3276BA	.0	.0	.0	.0007	.1412	.0141	.0094	.0047	.1883	5.31	9.5	4,763	500	505.9
3276BB	.0	.0	.0	.0010	.0713	.0102	.0051	.0	.1018	4.91	5.5	2,749	500	180.0
3276BC	.0	.0	.0	.0001	.0339	.0023	.0011	.0	.0790	4.43	4.9	2,432	500	143.6
3276BD	.0	.0	.0	.0002	.0208	.0031	.0021	.0	.0521	4.80	5.3	2,673	500	171.1
40. Hunter Creek, #1; unsorted --Continued														
3019A	.0	.0	.0	.0021	.2066	.0103	.0103	.0015	.1550	4.84	31.6	9,331	295	3,061.8
3019B	.0	.0	.0	.0069	2.9586	.0690	.0690	.0099	.2959	5.07	5.1	8,125	1,600	515.0
3019C	.0	.0	.0	.0021	.3138	.0209	.0157	.0052	1.0460	4.78	11.2	1,725	154	214.2
3019D	.0	.0	.0	.0030	.3012	.0703	.0201	.0201	.7028	4.98	9.7	12,725	1,314	1,377.6
3019E	.0	.0	.0	.0015	.2045	.0051	.0102	.0051	.2045	4.89	44.2	31,700	717	14,419.7
41. Hunter Creek, #2; minus 35-mesh --Continued														
3020A	.0	.0	.0	.0036	.2392	.0084	.0120	.0060	.2392	4.18	11.4	15,223	1,340	1,899.5
41. Hunter Creek, #2; plus 35-mesh --Continued														
3020XA	.0	.0	.0	.0008	.0833	.0024	.0036	.0018	.1786	4.20	18.0	15,831	880	3,022.3
3020XB	.0	.0	.0	.0023	.3456	.0115	.0081	.0012	.2304	4.34	4.4	35,030	8,000	1,900.4
3020XC	.0	.0	.0	.0018	.1779	.0027	.0089	.1335	.4448	5.62	14.4	5,199	360	811.6
3020XD	.0	.0	.0	.0012	.0850	.0036	.0121	.0024	.1214	4.12	10.5	4,992	473	579.4
3020XE	.0	.0	.0	.0022	.1674	.0056	.0112	.0033	.2232	4.48	54.7	4,375	80	2,449.8
42. Hunter Creek, below Dawson Creek; minus 20-mesh, plus 60-mesh --Continued														
3214A	.0	.0	.0	.0015	.3000	.0150	.0050	.0050	.3000	5.00	31.9	1,369	43	456.2
3214B	.0	.0	.0	.0007	.0700	.0050	.0020	.0010	.1000	5.00	18.9	1,889	100	377.9
3214C	.0	.0	.0	.0005	.0700	.0100	.0020	.0020	.1000	5.00	18.9	1,885	100	377.1
42. Hunter Creek, below Dawson Creek; plus 20-mesh --Continued														
3214XA	.0	.0	.0	.0014	.1883	.0141	.0028	.0028	.1883	5.31	33.8	338	10	119.7
3214XB	.0	.0	.0	.0009	.0893	.0045	.0018	.0	.0893	5.60	10.1	5,038	500	564.3

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				42. Hunter Creek, below Dawson Creek; plus 20-mesh --Continued											
3214XC	93.9	951	4.8	1.2927	.0145	.0	.0	.0029	.0	.0	.0	.0002	.9671	.0	.0005
				42. Hunter Creek, below Dawson Creek; minus 60-mesh, plus 100-mesh											
3214RA	83.8	923	7.0	9.2367	1.0000	.0300	.0	5.0000	.0040	.0100	.0	.2000	.5000	.1500	.0100
3214RB	80.8	890	10.0	9.1801	.7000	.0300	.0	5.0000	.0040	.0150	.0	.0015	.5000	.0	.0050
3214RC	82.0	921	7.0	10.9969	1.0000	.0500	.0	5.0000	.0070	.0100	.0	.0020	.5000	.0	.0150
				42. Hunter Creek, below Dawson Creek; minus 100-mesh, plus 160-mesh											
3214SA	87.8	898	10.0	2.2285	.0500	.0050	.0	.7000	.0040	.0070	.0	.0020	.5000	.0	.0050
3214SB	83.9	870	12.5	3.5725	.2500	.0125	.0	.6250	.0050	.0087	.0	.0063	.6250	.0	.0087
3214SC	84.7	901	9.3	6.0815	.5556	.0093	.0	1.2963	.0	.0093	.0	.1852	.9259	.0926	.0130
				42. Hunter Creek, below Dawson Creek; minus 160-mesh											
3214TA	91.0	929	7.0	2.0006	.1500	.0100	.0	.1500	.0050	.0150	.0	.0020	.5000	.0	.0030
3214TB	85.8	896	10.0	4.1565	.5000	.0100	.0	.5000	.0050	.0070	.0	.0015	1.0000	.0	.0070
3214TC	87.8	915	8.2	4.0377	.2336	.0058	.0	.3505	.0082	.0117	.0	.0012	1.1682	.0	.0350
				43. Hunter Creek, above Dawson Creek; unsorted, A											
3213A	96.0	993	.7	3.3127	.7000	.0	.0	.1000	.0	.0	.0	.0010	.2000	.0	.0
3213B	93.2	949	5.0	1.7777	.0300	.0	.0	.0020	.0	.0	.0	.0	.5000	.0	.0070
3213C	91.7	929	7.0	1.2559	.0200	.0	.0	.0030	.0	.0	.0	.0002	.5000	.0	.0007
				43. Hunter Creek, above Dawson Creek; unsorted, B											
3213VA	92.8	934	6.5	.6897	.0466	.0	.0	.0140	.0	.0016	.0	.0005	.2799	.0	.0
3213VB	96.5	980	2.0	1.4689	.1000	.0	.0	.0020	.0	.0	.0	.0	1.0000	.0	.0020
3213VC	87.9	898	10.0	2.1080	.0700	.0	.0	.0020	.0	.0020	.0	.0	.5000	.0	.0030
				43. Hunter Creek, above Dawson Creek; unsorted, 1											
3213R	87.8	909	8.8	3.4526	.0088	.0	.0	.0439	.0	.0	.0	.0	1.7544	.0	.0
				43. Hunter Creek, above Dawson Creek; unsorted, 2											
3213S	79.7	921	6.9	13.4726	.0196	.0	.0	.9804	.0	.0294	.0	.0	4.9020	.0	.0
				43. Hunter Creek, above Dawson Creek; unsorted, nugget											
3213TA	83.5	855	14.2	2.3639	.0094	.0	.0	.0009	.0	.0	.0	.0	.9434	.0	.0005
3213TB	86.3	889	10.8	2.9457	.0161	.0	.0	.0003	.0	.0	.0	.0	.7527	.0	.0005
3213TC	82.1	855	14.0	3.9449	.0093	.0	.0	.0005	.0	.0	.0	.0	.9311	.0	.0014
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; flat, smooth flakes											
3275A	91.7	923	7.7	.6342	.1096	.0	.0	.0055	.0	.0	.0	.0005	.2193	.0	.0011
3275B	92.6	932	6.7	.7404	.1437	.0	.0	.0048	.0	.0	.0	.0010	.2874	.0	.0010
3275C	79.5	804	19.4	1.1065	.0680	.0	.0	.0049	.0	.0	.0	.0007	.6796	.0	.0010

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
42. Hunter Creek, below Dawson Creek; plus 20-mesh --Continued																
3214XC	.0	.0	.0	.0	.0	.0	.0019	.0	.0	.0	.0	.0	.0	.0	.0	.0
42. Hunter Creek, below Dawson Creek; minus 60-mesh,plus 100-mesh --Continued																
3214RA	.0005	.3000	.0	.0	.0	.0	.5000	.0	.0005	.0500	.0010	.0007	.0200	.0	.0	.0
3214RB	.0007	1.5000	.0010	.0	.0	.0	.0500	.0	.0004	.0	.0010	.0015	.0500	.0	.0	.0
3214RC	.0	2.0000	.0	.0	.0	.0	.2000	.0	.0300	.0500	.0009	.0	.0	.0	.0	.0
42. Hunter Creek, below Dawson Creek; minus 100-mesh, plus 160-mesh --Continued																
3214SA	.0005	.0050	.0	.0	.0	.0	.1000	.0	.0030	.0	.0	.0	.0	.0	.0	.0
3214SB	.0	.2500	.0	.0	.0	.0	.6250	.0	.0	.0	.0	.0	.0	.0	.0	.0
3214SC	.0	.2778	.0	.0	.0278	.0037	.3704	.0	.0	.0	.0	.0	.0	.0	.0	.0
42. Hunter Creek, below Dawson Creek; minus 160-mesh --Continued																
3214TA	.0005	.0200	.0007	.0	.0500	.0	.0200	.0	.0150	.0	.0009	.0005	.0030	.0	.0	.0
3214TB	.0010	.0200	.0	.0	1.0000	.0150	.0200	.0	.0200	.0	.0015	.0005	.0030	.0	.0	.0
3214TC	.0006	.0584	.0	.0	.8178	.0234	.1752	.0	.0058	.0	.0058	.0006	.0058	.0	.0	.0004
43. Hunter Creek, above Dawson Creek; unsorted, A --Continued																
3213A	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3213B	.0	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
3213C	.0	.0	.0	.0	.0	.0	.0150	.0	.0	.0	.0	.0	.0	.0	.0	.0
43. Hunter Creek, above Dawson Creek; unsorted, B --Continued																
3213VA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0001
3213VB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3213VC	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
43. Hunter Creek, above Dawson Creek; unsorted, 1 --Continued																
3213R	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43. Hunter Creek, above Dawson Creek; unsorted, 2 --Continued																
3213S	.0	.0049	.0	.0	.0	.0	.2941	.0	.0	.0	.0	.0	.0	.0	.0	.0
43. Hunter Creek, above Dawson Creek; unsorted, nugget --Continued																
3213TA	.0	.0	.0	.0	.0	.0	.0019	.0	.0	.0	.0	.0	.0	.0	.0	.0002
3213TB	.0	.0	.0	.0	.0	.0	.0016	.0	.0	.0	.0	.0	.0	.0	.0	.0002
3213TC	.0	.0	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0003
44. Gunnison Creek; minus 20-mesh, plus 60-mesh; flat, smooth flakes --Continued																
3275A	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275B	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275C	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
				42. Hunter Creek, below Dawson Creek; plus 20-mesh --Continued										
3214XC	.0	.0	.0	.0010	.1451	.0068	.0029	.0048	.1451	5.17	19.4	6,471	333	1,338.2
				42. Hunter Creek, below Dawson Creek; minus 60-mesh,plus 100-mesh --Continued										
3214RA	.0	.0	.0	.0150	1.0000	.0300	.0150	.1000	.3000	5.00	12.0	84	7	12.0
3214RB	.0	.0	.0	.0050	.7000	.0300	.0150	.0700	.5000	5.00	8.1	115	14	11.5
3214RC	.0	.0	.0070	.0100	1.5000	.0500	.0150	.0500	.5000	5.00	11.7	82	7	11.7
				42. Hunter Creek, below Dawson Creek; minus 100-mesh, plus 160-mesh --Continued										
3214SA	.0	.0	.0	.0020	.5000	.0200	.0050	.0200	.3000	5.00	8.8	1,755	200	175.5
3214SB	.0	.0	.0	.0188	.6250	.0375	.0375	.0625	.3750	4.00	6.7	336	50	26.9
3214SC	.0	.0	.0	.0093	1.8519	.0370	.0093	.1296	.2778	2.70	9.1	152	17	16.5
				42. Hunter Creek, below Dawson Creek; minus 160-mesh --Continued										
3214TA	.0	.0	.0	.0050	.7000	.0200	.0100	.0200	.3000	5.00	13.0	607	47	86.7
3214TB	.0	.0	.0	.0050	.7000	.0200	.0100	.0100	.3000	5.00	8.6	172	20	17.2
3214TC	.0	.0	.0	.0082	.8178	.0234	.0117	.0350	.2336	4.28	10.7	376	35	45.9
				43. Hunter Creek, above Dawson Creek; unsorted, A --Continued										
3213A	.0	.0	.0	.0020	.3000	.0070	.0020	.0	2.0000	5.00	137.1	137	1	195.9
3213B	.0	.0	.0	.0150	1.0000	.0150	.0050	.0030	.2000	5.00	18.6	3,107	167	621.5
3213C	.0	.0	.0	.0030	.5000	.0100	.0020	.0020	.2000	5.00	13.1	4,587	350	655.3
				43. Hunter Creek, above Dawson Creek; unsorted, B --Continued										
3213VA	.0	.0	.0	.0014	.1399	.0140	.0028	.0019	.1866	5.36	14.2	1,989	140	304.6
3213VB	.0	.0	.0	.0020	.2000	.0100	.0015	.0010	.1500	5.00	48.3	965	20	482.7
3213VC	.0	.0	.0	.0070	1.0000	.0200	.0020	.0015	.5000	5.00	8.8	1,256	143	125.6
				43. Hunter Creek, above Dawson Creek; unsorted, 1 --Continued										
3213P	.0	.0	.0	.0009	.1754	.0132	.0088	.1316	1.3158	.57	10.0	10,006	1,000	1,140.7
				43. Hunter Creek, above Dawson Creek; unsorted, 2 --Continued										
3213S	.0	.0	.1961	.0069	.9804	.1471	.9804	.0294	4.9020	.51	11.6	4,063	350	592.0
				43. Hunter Creek, above Dawson Creek; unsorted, nugget --Continued										
3213TA	.0	.0	.0	.0066	.2830	.1415	.0283	.0047	.9434	5.30	5.9	8,849	1,500	625.4
3213TB	.0	.0	.0	.0075	.5376	.5376	.0108	.0054	1.0753	4.65	8.0	5,351	667	497.6
3213TC	.0	.0	.0	.0140	.6518	.9311	.0047	.0028	1.3966	5.37	5.9	8,816	1,500	631.2
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; flat, smooth flakes --Continued										
3275A	.0	.0	.0	.0011	.1096	.0110	.0055	.0055	.1645	4.56	11.9	836	70	108.9
3275B	.0	.0	.0	.0010	.1437	.0067	.0048	.0029	.1437	5.22	13.8	644	47	96.1
3275C	.0	.0	.0	.0019	.1942	.0049	.0029	.0029	.1456	5.15	4.1	1,169	286	60.2

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; oblong, flat, smooth										
3275BA	93.0	934	6.6	.4003	.0468	.0	.0	.0028	.0	.0016	.0	.0094	.0936	.0	.0009
3275BB	94.7	950	5.0	.3399	.0994	.0	.0	.0050	.0	.0030	.0	.0050	.0994	.0	.0010
3275BC	93.1	934	6.6	.3676	.0658	.0	.0	.0047	.0	.0	.0	.0019	.0940	.0	.0009
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; delicate, crumbly, thin											
3275CA	95.0	955	4.5	.4833	.0448	.0	.0	.0027	.0448	.0	.0	.0027	.0896	.0	.0063
3275CB	93.6	948	5.1	1.2877	.1027	.0	.0	.0072	.0	.0	.0	.0	.5133	.0	.0
3275CC	89.8	906	9.3	.9210	.0933	.0	.0	.0047	.0	.0	.0	.0005	.4664	.0	.0
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; angular blocky											
3275FA	87.4	887	11.1	1.4874	.1667	.0	.0	.0033	.0	.0	.0	.0002	.5556	.0	.0
3275FB	93.3	939	6.0	.7040	.0859	.0	.0	.0026	.0	.0	.0	.0	.4296	.0	.0
3275FC	90.1	905	9.4	.5236	.0659	.0	.0	.0188	.0	.0	.0	.0002	.1883	.0	.0
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; dimpled, rounded nuggets											
3275HA	83.3	839	15.9	.8073	.0212	.0	.0	.0074	.0	.0	.0	.0032	.2123	.0	.0
3275HB	88.7	895	10.4	.9472	.0312	.0	.0	.0031	.0	.0	.0	.0002	.5198	.0	.0
3275HC	88.3	898	10.0	1.7207	.0700	.0	.0	.2000	.0	.0	.0	.0020	.5000	.0	.0050
				44. Gunnison Creek; minus 20-mesh, plus 100-mesh; stained red, flat flakes											
3275QA	89.0	898	10.1	.8505	.0607	.0	.0	.0061	.0	.0035	.0	.0101	.2024	.0	.0
3275QB	89.3	912	8.6	2.1043	.0862	.0	.0	.0043	.0	.0	.0	.0009	.2011	.0	.0
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; rounded flakes											
3275LA	92.3	927	7.3	.3870	.0437	.0	.0	.0044	.0	.0026	.0	.0292	.1458	.0	.0
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; oblong, flat flakes											
3275MA	89.7	901	9.8	.4349	.0689	.0	.0	.0049	.0	.0020	.0	.0492	.1476	.0	.0
3275MB	89.2	896	10.3	.4686	.0310	.0	.0	.0072	.0	.0018	.0	.0517	.1550	.0	.0
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; angular, blocky flakes											
3275NA	89.3	896	10.3	.4233	.0515	.0	.0	.0072	.0	.0	.0	.0515	.1031	.0	.0
3275NB	87.0	875	12.4	.5123	.0871	.0	.0	.0025	.0	.0	.0	.0062	.1244	.0	.0
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; crinkly, thin flakes											
3275RA	91.9	922	7.8	.3347	.0335	.0	.0	.0056	.0	.0020	.0	.0167	.1116	.0	.0
3275RB	89.7	904	9.5	.8465	.0473	.0	.0	.0047	.1894	.0	.0	.0066	.0947	.0	.0014
				44. Gunnison Creek; minus 100-mesh, plus 160-mesh; spheriods											
3275T	91.9	934	6.5	1.5359	.6545	.0	.0	.0092	.0	.0	.0	.0131	.1309	.0	.0013
				44. Gunnison Creek; plus 20-mesh; flat, thin flakes											
3275XA	96.8	974	2.6	.5922	.0877	.0175	.0	.0026	.0	.0	.0	.0002	.0614	.0	.0009

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
44. Gunnison Creek; minus 20-mesh, plus 60-mesh; oblong, flat, smooth --Continued																
3275BA	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275BB	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275BC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
44. Gunnison Creek; minus 20-mesh, plus 60-mesh; delicate, crumbly, thin --Continued																
3275CA	.0090	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275CB	.0	.0	.0	.0	.0	.0	.0021	.0	.0007	.0	.0	.0	.0	.0	.0	.0005
3275CC	.0	.0	.0	.0	.0	.0	.0007	.0	.0007	.0	.0	.0	.0	.0	.0	.0004
44. Gunnison Creek; minus 20-mesh, plus 60-mesh; angular blocky --Continued																
3275FA	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275FB	.0	.0	.0	.0	.0	.0	.0003	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275FC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
44. Gunnison Creek; minus 20-mesh, plus 60-mesh; dimpled, rounded nuggets --Continued																
3275HA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275HB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275HC	.0010	.0	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0
44. Gunnison Creek; minus 20-mesh, plus 100-mesh; stained red, flat flakes --Continued																
3275QA	.0	.0	.0	.0	.0	.0	.0008	.0	.0	.0	.0	.0	.0	.0	.0	.0
3275QB	.0	.0	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0
44. Gunnison Creek; minus 60-mesh, plus 100-mesh; rounded flakes --Continued																
3275LA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44. Gunnison Creek; minus 60-mesh, plus 100-mesh; oblong, flat flakes --Continued																
3275MA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275MB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0004
44. Gunnison Creek; minus 60-mesh, plus 100-mesh; angular, blocky flakes --Continued																
3275NA	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275NB	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0005
44. Gunnison Creek; minus 60-mesh, plus 100-mesh; crinkly, thin flakes --Continued																
3275RA	.0	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275RB	.0	.0	.0	.0	.0	.0	.0005	.0	.0005	.0	.0	.0	.0	.0	.0	.0004
44. Gunnison Creek; minus 100-mesh, plus 160-mesh; spheriods --Continued																
3275T	.0	.0131	.0	.0	.0	.0	.0654	.0	.0	.0	.0065	.0	.0	.0	.0	.0005
44. Gunnison Creek; plus 20-mesh; flat, thin flakes --Continued																
3275XA	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0004

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; oblong, flat, smooth --Continued										
3275BA	.0	.0	.0	.0009	.1404	.0066	.0028	.0	.0936	5.34	14.2	1,987	140	303.2
3275BB	.0	.0	.0	.0005	.0497	.0050	.0020	.0	.0696	5.03	19.1	953	50	191.7
3275BC	.0	.0	.0	.0007	.0940	.0047	.0047	.0019	.0940	5.32	14.1	1,414	100	215.0
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; delicate, crumbly, thin --Continued										
3275CA	.0	.0	.0	.0009	.1792	.0090	.0045	.0	.0896	5.58	21.2	2,121	100	473.5
3275CB	.0	.0	.0	.0021	.3080	.0205	.0072	.0154	.3080	4.87	18.2	911	50	177.6
3275CC	.0	.0	.0	.0047	.1866	.0187	.0047	.0	.1399	5.36	9.6	962	100	103.1
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; angular blocky --Continued										
3275FA	.0	.0	.0	.0022	.5556	.0167	.0033	.0167	.1667	4.50	7.9	524	67	47.2
3275FB	.0	.0	.0	.0009	.0859	.0086	.0043	.0	.0859	5.82	15.5	1,086	70	180.6
3275FC	.0	.0	.0	.0014	.1412	.0094	.0028	.0009	.0942	5.31	9.6	1,366	143	145.1
				44. Gunnison Creek; minus 20-mesh, plus 60-mesh; dimpled, rounded nuggets --Continued										
3275HA	.0	.0	.0	.0032	.2123	.0212	.0053	.0021	.3185	4.71	5.2	3,922	750	246.3
3275HB	.0	.0	.0	.0016	.1559	.0208	.0052	.0010	.2079	4.81	8.5	2,843	333	273.5
3275HC	.0	.0	.0	.0100	.7000	.0200	.0050	.0070	.2000	5.00	8.8	1,261	143	126.1
				44. Gunnison Creek; minus 20-mesh, plus 100-mesh; stained red, flat flakes --Continued										
3275QA	.0	.0	.0	.0030	.4049	.0101	.0040	.0030	.1417	2.47	8.8	1,466	167	144.8
3275QB	.0	.0	.0	.0575	1.4368	.0144	.0086	.0057	.2874	1.74	10.4	1,036	100	120.1
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; rounded flakes --Continued										
3275LA	.0	.0	.0	.0010	.0437	.0073	.0044	.0029	.1020	3.43	12.7	2,111	167	289.7
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; oblong, flat flakes --Continued										
3275MA	.0	.0	.0	.0005	.0492	.0098	.0020	.0015	.0984	5.08	9.1	1,302	143	132.3
3275MB	.0	.0	.0	.0010	.0517	.0103	.0021	.0010	.1550	4.84	8.6	2,878	333	278.6
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; angular, blocky flakes --Continued										
3275NA	.0	.0	.0	.0007	.0722	.0103	.0021	.0206	.1031	4.85	8.7	1,732	200	168.0
3275NB	.0	.0	.0	.0012	.0871	.0124	.0025	.0012	.1866	4.02	7.0	1,000	143	80.4
				44. Gunnison Creek; minus 60-mesh, plus 100-mesh; crinkly, thin flakes --Continued										
3275RA	.0	.0	.0	.0008	.0335	.0112	.0056	.0017	.1116	4.48	11.8	2,743	233	351.1
3275RB	.0	.0	.0	.0009	.2841	.0142	.0028	.0095	.1894	5.28	9.5	1,894	200	200.0
				44. Gunnison Creek; minus 100-mesh, plus 160-mesh; spheriods --Continued										
3275T	.0	.0	.0	.0131	.2618	.0393	.0393	.0262	.2618	3.82	14.0	140	10	21.5
				44. Gunnison Creek; plus 20-mesh; flat, thin flakes --Continued										
3275XA	.0	.0	.0	.0026	.2632	.0132	.0044	.0061	.1316	5.70	36.8	1,103	30	419.2

Table 2 --Continued

Sample	Au	Fineness	Ag	SUM of X	Cu	Zn	Ga	Pb	As	Sb	Cd	Bi	Hg	Te	Ni
				44. Gunnison Creek; plus 20-mesh; flat, thin flakes --Continued											
3275XB	91.8	922	7.8	.3425	.0469	.0	.0	.0023	.0	.0	.0	.0008	.1563	.0	.0
3275XC	96.3	973	2.6	1.0806	.1754	.0	.0	.0877	.0	.0	.0	.0018	.4386	.0	.0009
				44. Gunnison Creek; plus 20-mesh; rounded, delicate grains											
3275ZA	97.2	978	2.2	.5385	.0559	.0	.0	.0011	.0	.0	.0	.2237	.0559	.0	.0
3275ZB	94.3	950	5.0	.7253	.2000	.0	.0	.0050	.0	.0	.0	.0020	.1500	.0	.0
3275ZC	96.0	963	3.7	.2849	.0616	.0	.0	.0018	.0	.0	.0	.0002	.0616	.0	.0
				45. Quail Creek; like amalgam											
3290YA	88.1	893	10.6	1.3177	.0106	.0	.0	.0021	.0042	.0021	.0	.0016	.5285	.0	.0053
3290YB	81.1	852	14.1	4.8033	.0066	.0	.0	.0019	.0188	.0066	.0	.0005	2.8143	.0	.0
3290YC	87.5	900	9.7	2.7904	.0194	.0	.0	.0049	.0039	.0	.0	.0005	1.9417	.0	.0015
				45. Quail Creek; 10-mesh; flat yellow grains											
3290XA	84.6	853	14.6	.8047	.0486	.0	.0	.0007	.0	.0019	.0	.0	.6809	.0	.0
3290XB	89.2	903	9.6	1.1964	.0192	.0	.0	.0067	.0	.0019	.0	.0003	.6731	.0	.0010
3290XC	85.9	874	12.4	1.6923	.0248	.0	.0	.0012	.0	.0022	.0	.0002	.6188	.0	.0025
				45. Quail Creek; associated impurities											
3290V	85.8	970	2.7	11.5664	.0125	.0179	.0009	.1786	.0179	.0031	.0	.0005	3.5714	.0	.0036
				45. Quail Creek; slag like impurities											
3290WA	83.0	857	13.9	3.1030	.0092	.0	.0	.0462	.0185	.0647	.0	.0018	1.8484	.0	.0005
3290WB	83.7	886	10.8	5.5616	1.0776	.0	.0	.0539	.0216	.1078	.0	.0011	3.2328	.0	.0011
3290WC	80.9	894	9.6	9.5535	4.7893	.0	.0	.0670	.0192	.0670	.0	.0096	1.9157	.0	.0010
				45. Quail Creek; large, flat, yellow grains											
3290TA	91.7	947	5.1	3.1992	.2037	.0	.0	.0509	.0153	.0204	.0	.0071	2.0367	.0	.0010
3290TB	90.9	926	7.3	1.8528	.2075	.0	.0	.0207	.0156	.0156	.0	.0002	.5187	.0	.0010
3290TC	85.3	966	3.0	11.7567	9.9404	.0	.0	.0298	.0099	.0199	.0	.0003	.9940	.0	.0005
				45. Quail Creek; plus 20-mesh; well worn, thin grains											
3290RA	91.4	917	8.3	.3190	.0413	.0	.0	.0008	.0	.0025	.0	.0	.0413	.0	.0012
3290RB	93.8	942	5.8	.4222	.0348	.0	.0	.0012	.0	.0	.0	.0	.0812	.0	.0012
3290RC	88.6	908	9.0	2.3883	.0270	.0090	.0	.0180	.0045	.0	.0	.0	.0180	.0	.0090

Table 2 --Continued

Sample	Co	Sn	Mo	Ge	Pt	Pd	Ba	Sr	Zr	V	Cr	Y	La	Sc	Nb	B
				44. Gunnison Creek; plus 20-mesh; flat, thin flakes --Continued												
3275XB	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0006
3275XC	.0	.0	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0004
				44. Gunnison Creek; plus 20-mesh; rounded, delicate grains --Continued												
3275ZA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3275ZB	.0	.0	.0	.0	.0	.0	.0004	.0	.0005	.0	.0	.0	.0	.0	.0	.0004
3275ZC	.0	.0	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0
				45. Quail Creek; like amalgam --Continued												
3290YA	.0	.0106	.0	.0	.0	.0	.0011	.0	.0	.0	.0011	.0	.0	.0	.0	.0
3290YB	.0	.0141	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0
3290YC	.0	.0194	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0004
				45. Quail Creek; 10-mesh; flat yellow grains --Continued												
3290XA	.0	.0010	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3290XB	.0	.0019	.0	.0	.0	.0	.0007	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3290XC	.0	.0087	.0	.0	.0	.0	.0019	.0	.0	.0	.0	.0	.0	.0	.0	.0005
				45. Quail Creek; associated impurities --Continued												
3290V	.0018	.0357	.0	.0036	.0	.0	.0536	.0179	.0125	.0036	.8929	.0007	.0031	.0	.0	.0027
				45. Quail Creek; slag like impurities --Continued												
3290WA	.0	.0647	.0	.0	.0	.0	.0014	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3290WB	.0	.1078	.0	.0	.0	.0	.0032	.0	.0	.0	.0	.0	.0	.0	.0	.0005
3290WC	.0	.0670	.0	.0	.0	.0	.0004	.0	.0	.0014	.0	.0	.0	.0	.0	.0
				45. Quail Creek; large, flat, yellow grains --Continued												
3290TA	.0	.0305	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0004
3290TB	.0	.0207	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
3290TC	.0	.0497	.0	.0	.0	.0	.0004	.0	.0	.0	.0	.0	.0	.0	.0	.0
				45. Quail Creek; plus 20-mesh; well worn, thin grains --Continued												
3290RA	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3290RB	.0	.0	.0	.0	.0	.0	.0005	.0	.0	.0	.0	.0	.0	.0	.0	.0
3290RC	.0005	.0	.0	.0	.0	.0	.0006	.0	.0	.0	.0009	.0	.0	.0	.0	.0006

Table 2 --Continued

Sample	Ta	Be	W	Mn	Fe	Mg	Ca	Ti	Si	smpl wt	r=Au/Ag	Au/Cu	Ag/Cu	r/Cu
44. Gunnison Creek; plus 20-mesh; flat, thin flakes --Continued														
3275XB	.0	.0	.0	.0005	.0469	.0047	.0031	.0023	.0781	3.20	11.8	1,959	167	250.8
3275XC	.0	.0	.0	.0026	.2632	.0132	.0044	.0044	.0877	5.70	36.6	549	15	208.6
44. Gunnison Creek; plus 20-mesh; rounded, delicate grains --Continued														
3275ZA	.0	.0	.0	.0011	.1119	.0078	.0022	.0	.0783	4.47	43.5	1,738	40	777.1
3275ZB	.0	.0	.0	.0020	.2000	.0100	.0030	.0020	.1500	5.00	18.9	471	25	94.3
3275ZC	.0	.0	.0	.0002	.0616	.0062	.0025	.0025	.0862	4.06	26.0	1,559	60	422.1
45. Quail Creek; like amalgam --Continued														
3290YA	.0	.0	.0	.0021	.5285	.0053	.0021	.0011	.2114	4.73	8.3	8,335	1,000	788.5
3290YB	.0	.0	.0	.0003	.0469	.0066	.0066	.0028	1.8762	5.33	5.8	12,354	2,143	878.0
3290YC	.0	.0	.0	.0029	.4854	.0068	.0068	.0049	.2913	5.15	9.0	4,506	500	464.1
45. Quail Creek; 10-mesh; flat yellow grains --Continued														
3290XA	.0	.0	.0	.0001	.0195	.0019	.0010	.0	.0486	5.14	5.8	1,739	300	119.2
3290XB	.0	.0	.0	.0010	.2885	.0067	.0019	.0008	.1923	5.20	9.3	4,638	500	482.3
3290XC	.0	.0	.0	.0025	.6188	.0248	.0019	.0124	.3713	4.04	6.9	3,472	500	280.5
45. Quail Creek; associated impurities --Continued														
3290V	.0	.0	.0	.0357	1.7857	.8929	.3571	.0893	3.5714	2.80	32.0	6,860	214	2,561.2
45. Quail Creek; slag like impurities --Continued														
3290WA	.0	.0	.0	.0009	.0924	.0185	.0065	.0046	.9242	5.41	6.0	8,984	1,500	648.1
3290WB	.0	.0	.0	.0008	.1616	.0108	.0108	.0162	.7543	4.64	7.8	78	10	7.2
3290WC	.0	.0	.0	.0010	1.9157	.0048	.0048	.0192	.6705	5.22	8.4	17	2	1.8
45. Quail Creek; large, flat, yellow grains --Continued														
3290TA	.0	.0	.0	.0007	.3055	.0051	.0071	.0051	.5092	4.91	18.0	450	25	88.4
3290TB	.0	.0	.0	.0016	.3112	.0031	.0031	.0073	.7261	4.82	12.5	438	35	60.3
3290TC	.0	.0	.0	.0050	.4970	.0050	.0050	.0010	.1988	5.03	28.6	9	0	2.9
45. Quail Creek; plus 20-mesh; well worn, thin grains --Continued														
3290RA	.0	.0	.0	.0012	.1653	.0017	.0041	.0017	.0579	6.05	11.1	2,212	200	267.7
3290RB	.0	.0	.0	.0017	.1740	.0023	.0035	.0058	.1160	4.31	16.2	2,695	167	464.5
3290RC	.0	.0001	.0	.0180	1.3514	.0135	.0135	.0027	.9009	5.55	9.8	3,278	333	363.9

Table 3.--Spectrographic analyses for the nonmagnetic fraction of the heavy-mineral-concentrate samples from placer gold samples from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

[N, not detected; <, detected but below limit of determination shown; >, determined to be greater than value shown; values in parts per million except where noted; %, percent. No concentrate samples collected at sites 8, 18, 19, 39, 44, and 45.]

sample number	site number	LOCATION	Fe %	Mg %	Ca %	Ti %	Mn	Ag	As
3209	1	Boulder Creek, Bench, #4	10.0	.10	.50	>2.00	200	5	N
3208	2	Boulder Creek, Benoh, #2	10.0	.30	.70	>2.00	2,000	N	N
3208A	2	Boulder Creek, Bench, #2	3.0	.30	.20	.50	200	N	N
3207	3	Boulder Creek, Bench, #1	7.0	.20	.50	>2.00	2,000	5	N
3203	4	Colorado Creek	5.0	1.00	2.00	1.00	1,000	10	N
3204	5	American Creek	7.0	1.00	3.00	1.00	2,000	N	N
3205	6	New York Gulch	3.0	1.00	5.00	.70	700	N	N
3206	6	New York Gulch	5.0	1.00	3.00	1.00	1,000	1	N
3029	7	Wood Chopper Creek, upper	50.0	.10	1.00	.50	200	30	1,500
3287	9	Miller Gulch	.3	.05	.10	>2.00	50	500	<500
3211	10	Tofty Gulch	15.0	.10	.10	.50	300	30	700
3211A	10	Tofty Gulch	7.0	.70	1.50	>2.00	3,000	N	N
3210	11	Cashe Creek	7.0	.70	1.00	>2.00	3,000	N	N
3288	12	Blowback Creek	7.0	.05	.15	>2.00	100	10	500
3212	13	Cooney Creek	50.0	.05	<.10	.30	100	500	1,000
3202	14	Thanksgiving Creek	5.0	.70	.15	>2.00	700	20	N
3030	15	Omega Creek, lower	15.0	1.00	2.00	2.00	300	20	1,500
3200	15	Omega Creek, lower	20.0	.20	.15	.30	200	200	500
3201	16	Omega Creek, upper	15.0	1.50	.70	1.50	1,500	10	N
3198	17	Rhode Island Creek, upper	7.0	1.50	.50	>2.00	3,000	30	N
3198A	17	Rhode Island Creek, upper	7.0	1.50	.70	>2.00	5,000	150	N
3199	20	Bench between Rhode Island/Glenn Creeks	7.0	.30	.20	1.00	3,000	10	N
3278	21	Rhode Island Creek, lower	10.0	.20	5.00	>2.00	150	150	500
3256	22	Bench between Glenn/Eureka Creeks	1.5	.20	.15	2.00	1,500	1,000	N
3187	23	Eureka Creek below Pioneer Creek #1	20.0	.10	.15	.70	500	10	1,000
3281	24	Pioneer Creek below Pioneer Creek #2	5.0	.05	.15	>2.00	50	70	N
3186	25	Alameda Creek	20.0	.07	.10	.30	100	7	1,000
3192A	26	Eureka Creek above American Creek	15.0	.20	.20	.20	150	7	1,000
3192S	27	Eureka Creek bench above American Creek	5.0	.10	.10	.50	100	>10,000	1,500
3190	28	Eureka Creek above Boston below Unanimus	20.0	1.00	1.00	.50	2,000	5	<500
3191	28	Eureka Creek above Boston below Unanimus	15.0	.70	.50	2.00	700	5	N
3189	29	Boston Creek	7.0	2.00	1.00	1.50	3,000	3	N
3188	30	Eureka Creek above Pioneer below Boston	10.0	.70	.30	1.50	1,000	100	500
3255	31	What Cheer Bar	3.0	.70	.50	2.00	>10,000	20	N
3255A	31	What Cheer Bar	1.0	.30	.50	>2.00	500	300	700
3159	32	Pioneer Creek bench at Doric	2.0	.50	.20	2.00	3,000	1,000	N
3194	33	Seattle Jr. Creek	20.0	.20	.10	.70	200	50	N
3195	34	Skookum Creek	5.0	1.50	.70	>2.00	500	7	N
3196	35	North Fork Pioneer Creek	7.0	2.00	.70	2.00	3,000	2	N
3197	35	North Fork Pioneer Creek	5.0	1.00	.50	2.00	15,000	500	N
3291	36	Slate Creek	20.0	.10	.15	2.00	150	1,000	1,000
3215	37	Ruby Creek, 1	20.0	.15	.20	.20	700	10	2,000
3282	38	Ruby Creek, 2	20.0	.10	.20	>2.00	100	5	2,000
3020	40	Hunter Creek, 1	20.0	.50	.50	.30	500	2	N
3271	40	Hunter Creek, 1	2.0	.50	.50	.50	500	7	N
3019	41	Hunter Creek, 2	20.0	<.05	<.10	.02	200	50	2,000
3214	42	Hunter Creek below Dawson Creek	15.0	1.00	1.50	1.50	700	500	2,000
3213VR	43	Hunter Creek above Dawson Creek	7.0	1.50	2.00	2.00	2,000	1	N
3213S	43	Hunter Creek above Dawson Creek	7.0	1.00	1.50	2.00	1,500	20	N
3213T	43	Hunter Creek above Dawson Creek	7.0	1.50	2.00	2.00	1,500	N	N

Table 3.--Spectrographic analyses for the nonmagnetic fraction of the heavy-mineral-concentrate samples from placer gold samples from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska--Continued

[N, not detected; <, detected but below limit of determination shown; >, determined to be greater than value shown; values in parts per million except where noted; %, percent. No concentrate samples collected at sites 8, 18, 19, 39, 44, and 45.]

Sample	Au	B	Ba	Be	Bi	Cd	Co	Cr	Cu	La	Mo	Nb	Ni
3209	N	50	2,000	N	N	N	200	100	700	500	N	N	700
3208	N	200	1,000	N	N	N	150	300	300	200	N	N	300
3208A	N	100	700	N	N	N	50	20	50	N	N	N	150
3207	N	150	1,000	N	N	N	70	500	300	150	N	N	300
3203	50	20	200	N	N	N	30	500	20	50	N	N	50
3204	N	50	50,000	N	N	N	30	700	200	100	N	N	150
3205	N	N	10,000	N	N	N	15	500	15	100	N	N	50
3206	N	20	10,000	N	N	N	20	1,000	50	70	N	N	100
3029	150	N	500	3	150	N	70	N	100	50	N	N	100
3287	>1,000	50	1,500	N	N	N	N	50	10	N	N	150	N
3211	700	200	500	N	N	N	150	2,000	150	1,500	N	150	300
3211A	20	200	500	N	N	N	50	1,500	150	500	N	50	150
3210	20	200	2,000	2	N	N	50	2,000	100	1,500	N	200	100
3288	100	20	2,000	N	N	N	N	200	100	200	N	50	70
3212	1,000	<20	100	N	200	N	100	N	300	N	N	N	500
3202	1,000	300	300	N	N	N	20	300	100	>2,000	N	N	50
3030	N	70	>10,000	N	N	N	15	300	50	>2,000	N	N	30
3200	1,000	20	500	N	30	N	200	30	700	2,000	N	N	700
3201	20	20	300	2	N	N	100	200	150	1,000	N	N	300
3198	200	70	2,000	N	70	N	50	1,000	20	>2,000	N	<50	50
3198A	>1,000	150	2,000	N	N	N	100	700	100	1,500	15	<50	200
3199	50	200	700	N	N	N	70	200	150	2,000	N	N	200
3278	1,000	30	1,500	N	N	N	30	100	70	500	N	N	100
3256	>1,000	100	1,000	N	N	N	30	200	150	2,000	N	N	100
3187	20	<20	500	N	N	N	200	70	1,000	2,000	N	N	1,000
3281	>1,000	20	100	N	50	N	50	200	10,000	500	N	70	300
3186	N	20	5,000	N	N	N	200	200	1,000	500	N	N	1,000
3192A	N	20	300	N	N	N	200	50	500	500	N	N	1,000
3192S	>1,000	20	200	N	100	N	50	20	2,000	>2,000	N	N	70
3190	N	100	2,000	N	N	N	100	700	200	1,000	N	N	200
3191	N	150	10,000	N	N	N	100	300	200	>2,000	N	<50	500
3189	<20	100	1,000	<2	N	N	70	300	50	2,000	N	<50	50
3188	1,000	70	15,000	N	N	N	70	300	200	2,000	N	N	700
3255	<20	200	15,000	N	N	N	150	500	150	>2,000	150	50	1,500
3255A	200	100	5,000	N	N	N	10	300	30	1,500	N	<50	30
3159	>1,000	150	500	N	N	N	20	2,000	15	>2,000	N	N	50
3194	100	50	3,000	N	30	N	100	500	200	2,000	N	N	500
3195	30	200	500	N	N	N	50	1,000	100	>2,000	N	50	70
3196	50	100	1,000	2	N	N	50	500	70	2,000	N	<50	70
3197	>1,000	100	3,000	<2	N	N	70	300	100	1,000	20	<50	300
3291	>1,000	20	>10,000	N	50	N	150	20	300	N	N	N	200
3215	N	20	5,000	N	150	N	100	N	500	500	N	N	1,000
3282	20	50	>10,000	N	N	N	100	70	100	N	N	100	200
3020	N	20	>10,000	N	N	N	30	100	70	100	N	N	50
3271	N	N	50,000	N	N	N	15	500	30	1,000	N	N	50
3019	200	50	>10,000	5	100	N	20	N	50	N	20	N	50
3214	>1,000	30	50,000	N	20	N	70	1,500	300	>2,000	50	N	100
3213VR	N	50	50,000	N	N	N	50	1,500	70	1,000	N	50	100
3213S	200	30	50,000	N	N	N	50	1,000	200	2,000	N	<50	70
3213T	20	50	50,000	N	N	N	50	1,500	150	2,000	N	<50	100

Table 3.--Spectrographic analyses for the nonmagnetic fraction of the heavy-mineral-concentrate samples from placer gold samples from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska--Continued

[N, not detected; <, detected but below limit of determination shown; >, determined to be greater than value shown; values in parts per million except where noted; %, percent. No concentrate samples collected at sites 8, 18, 19, 39, 44, and 45.]

Sample	Pb	Sb	Sc	Sn	Sr	V	W	Y	Zn	Zr	Th
3209	200	N	10	N	N	100	N	300	N	>2,000	N
3208	100	N	10	N	N	100	N	500	N	>2,000	N
3208A	N	N	10	N	N	100	N	20	N	>2,000	N
3207	300	N	10	N	N	70	N	500	N	>2,000	N
3203	N	N	50	N	N	500	N	70	N	200	N
3204	30	N	50	N	300	300	N	200	N	70	N
3205	20	N	50	N	200	500	N	50	N	50	N
3206	N	N	30	N	200	300	N	100	N	200	N
3029	20,000	N	N	200	N	N	N	100	500	100	N
3287	1,000	N	--	>2,000	200	100	N	300	N	>2,000	N
3211	300	N	10	>2,000	N	50	N	500	N	>2,000	N
3211A	100	N	10	1,500	N	150	N	1,000	N	>2,000	N
3210	70	N	10	500	700	200	N	300	N	>2,000	N
3288	3,000	N	--	>2,000	N	70	N	700	N	>2,000	N
3212	7,000	N	10	N	N	20	N	150	N	>2,000	N
3202	20	N	10	N	N	100	N	5,000	N	>2,000	200
3030	300	N	10	70	N	N	300	200	N	>2,000	N
3200	1,000	N	10	N	N	50	150	300	700	2,000	N
3201	500	N	50	N	N	100	N	200	N	1,500	N
3198	N	N	10	<20	N	200	200	500	N	>2,000	200
3198A	100	N	10	N	N	200	N	2,000	1,000	2,000	N
3199	200	N	10	70	500	100	N	300	N	2,000	N
3278	500	N	--	2,000	500	100	200	700	N	>2,000	N
3256	700	N	10	N	N	70	N	500	N	>2,000	N
3187	500	N	10	200	N	50	100	150	N	>2,000	N
3281	150	N	--	200	N	300	N	300	1,000	>2,000	N
3186	300	N	N	200	N	20	N	70	1,000	200	N
3192A	300	N	<10	N	N	50	N	50	700	200	N
3192S	50,000	500	10	>2,000	N	20	500	200	1,000	>2,000	200
3190	50	N	30	N	N	150	N	200	500	200	N
3191	200	N	10	100	N	100	<100	200	N	>2,000	300
3189	300	N	10	N	N	200	100	200	N	2,000	N
3188	1,500	N	10	50	N	100	<100	300	N	>2,000	200
3255	100	N	10	50	N	100	N	1,000	N	>2,000	200
3255A	2,000	N	10	N	N	70	N	500	1,000	>2,000	N
3159	50	N	10	30	N	100	200	1,000	N	>2,000	300
3194	2,000	N	10	500	N	50	N	700	N	>2,000	N
3195	20	N	10	N	N	100	N	700	N	>2,000	N
3196	20	N	10	N	N	200	100	200	N	>2,000	N
3197	100	N	20	30	N	100	N	1,500	N	2,000	N
3291	10,000	<200	--	2,000	700	50	100	300	N	>2,000	200
3215	5,000	200	10	300	N	50	300	70	700	100	N
3282	100	N	10	70	300	150	1,000	100	500	2,000	N
3020	500	N	N	500	2,000	50	N	30	N	1,000	N
3271	20	N	10	20	5,000	100	N	100	N	500	N
3019	50,000	1,000	N	>2,000	1,000	N	N	N	N	N	N
3214	5,000	N	10	>2,000	1,000	300	150	200	N	>2,000	N
3213VR	50	N	50	50	300	300	N	150	N	2,000	N
3213S	100	N	30	100	200	300	N	200	N	2,000	N
3213T	30	N	10	300	500	300	N	150	N	>2,000	N

Table 4.--Binocular microscope mineralogy of the nonmagnetic fraction of the heavy-mineral-concentrate samples from placer gold samples from the Manley Hot Springs, Tofty, Eureka, and Rampart mining districts, Tanana and Livengood quadrangles, Alaska

[Amalgam, AuHg; anatase, TiO_2; anglesite, $PbSO_4$; arsenopyrite, FeAsS; barite, $BaSO_4$; cassiterite, SnO_4; chalcopyrite, $CuFeS_2$; cinnabar, HgS; cyrotolite, Zr(Th, Y, La)SiO_4; galena, PbS; gold, Au; manganese, Mn; minium, Pb_3O_4; monazite, (Ce, La, Di)PO_4; pyrite, FeS_2; rutile, Ti(Fe)O_2; scheelite, $CaWO_4$; sphalerite, Zn(Fe)S; and thorite, $ThSiO_4$. No mineralogy for sites 8, 9, 18, 19, 39, 44, and 45. X, present; 70, estimated percentage (%)]

Site number	Gold	Anglesite	Arsenopyrite	Cinnabar	Chalcopyrite	Galena	Pyrite	Sphalerite	Cyrtolite	Barite	Cassiterite	Minium	Scheelite	Amalgam	Monazite	Thorite	Rutile	Anatase	Comments
1	X						70												
2	X		X			X	70			X									
3	X		X				X												
4	X						X												
5	X						10												
6	X						10			X			X						
7	X						X			X			X				X	X	Pyrite cubes in schist
10	X		X	X			60						X						Cinnabar in opal matrix
11	X		X	X			X			X	X		X						
12	X		X	X							X								
13	X		X			X	90												
14	X		X				50												
15	X		X				90						X						
16	X		X				50						X						
17	X												X						
20	X						10												
21	X		X	X							X		X						40% sulfides
22	X																		
23	X			X			90						X						
24	X			X	X		X	X											
25	X		X			X	90	X					X						
26	X	X	X	X			X	X	X				10	X					
27	X		X	X	X			X					X						
28	X		X				70				X								
29	X			X			X					X	X						
30	X			X		X	90			X			X						
31	X						X			X						X			Nodular, warty manganese
32	X												X		X				
33	X		X	X		X	90	X					X						
34	X						X						X						
35	X						X						X						
36	X		X			X	30			X			X						
37	X						90						X						
38	X		X				80	X		X			X						
40	X		X	X			X			X									
41	X		X	X		X	X			X									
42	X		X	X			90			X									
43	X			X			40												