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Analytical results for stream sediments, panned concentrates from stream sediments, and rock samples from the Dooley Mountain quadrangle, Baker County, Oregon

by

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INTRODUCTION

The Dooley Mountain 7 1/2-minute quadrangle is located 18 km south of Baker, Oregon, and lies astride the ridge between the Powder and Burnt River drainages (index map). Principal access is by route 7 south from Baker to route 245, which connects the Powder and Burnt River valleys by way of Dooley Summit. Numerous dirt roads provide access to all the major canyons in the quadrangle and to many of the ridge tops and flanks. The roadcuts provide excellent exposures of the Miocene volcanic rocks that are typically covered by thick regolith and forest.

The quadrangle was mapped at the scale of 1:125,000 as part of the Baker 30-minute quadrangle (Gilluly, 1937), at the scale of 1:250,000 as part of the Baker 1° by 2° quadrangle (Brooks and others, 1976), and at the scale of 1:500,000 as part of a geologic map of eastern Oregon (Walker, 1977). The present study is part of a cooperative project between the U.S. Geological Survey and the Oregon Department of Geology and Mineral Industries.

The principal geologic feature in the quadrangle is a Miocene volcanic assemblage that includes a 2,400-meter-thick section of rhyolitic welded tuff, a fissure-vent filled with rhyolitic pyroclastic breccia, a vent of approximately rectangular cross-section filled with basalt-rhyolite breccia, flows, and dikes, and two rhyolite domes and related flows. These rocks were called the Dooley Rhyolite Breccia by Gilluly (1937), but this name for these rocks does not adequately represent the variety of the rock types present. Therefore, Evans (in prep.) has renamed this unit as the Dooley Volcanics to reflect its complex lithology.

The Dooley Volcanics were deposited on a basement mostly of early to middle Tertiary basalt, Triassic diorite, and Triassic metasedimentary and metavolcanic rocks (Burnt River Schist). The distribution of the members of the Dooley Volcanics is complicated by faulting, tilting, and the erosion that occurred between the volcanic eruptions. The source vent or vents of the 2,400 m section of welded tuff, tuff, and welded and unwelded lithic ash-flow tuff are not known. Circumstantial evidence, however, suggests that the vent or vents are nearby and probably lie to the southwest or west of the quadrangle. This evidence includes: coarse lithic ash-flow tuff, containing lithic fragments as much as 2 m across; 7 of the 13 members generally thin eastward; degree of welding generally increases to the west; flow-induced crenulations and grooves trend east-northeast. The relation between the volcanic vents in the quadrangle and the vent or vents that supplied the thick section of rhyolitic welded tuff is not known.

ANALYTICAL DATA

Geochemical samples were collected in 1985 and 1986 from streams (38 stream-sediment samples from 37 sites and 33 panned-concentrate samples) and from outcrops that contain quartz veins, celadonite, or abundant iron or manganese oxides (278 samples from 271 sites). The sample sites are shown in plate 1.

Low sample weights of nonmagnetic heavy-mineral fractions of panned concentrates were anticipated from previous sampling experience in the region. In addition, the bed loads of streams in the quadrangle tend to be well supplied with light mineral fractions derived from erosion of the Dooley Volcanics following recent deforestation (logging and fire) and from erosion of Pleistocene to Holocene silicic tephra derived from eruptions, presumably to the west, in the Cascades. Therefore, a compromise was made between obtaining sufficient sample mass for gold analyses of the nonmagnetic heavy-mineral fractions, and speed of sampling, by sieving two pan loads of silt and sand from the stream sediment through an 8-mesh screen and panning the -8 mesh material. The process took from 1/2 to 1 hour per site. The panned material generally weighed from 1/4 to 1/2 kg. The panned concentrates contained sand and silt; some of them contained abundant magnetite.

Rock and stream-sediment samples were analyzed for 31 elements (Ag, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, La, Mg, Mn, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, Th, Ti, V, W, Y, Zn, Zr) by semiquantitative spectrographic methods (Grimes and Marranzino, 1968), for gold by the method described by Thompson and others (1968), and for mercury by the method described by Koirtyohann and Khalil (1976). Spectrographic results are reported to the nearest value in the series 1, 0.7, 0.5, 0.3, 0.15, 0.1, and so on. Precision of a reported value is approximately plus 100 percent and minus 50 percent. Concentrations determined for Ca, Fe, Mg, and Ti are given in weight percent; all other concentrations are given in parts per million (ppm).

Table 1 lists the lower limits of detection for spectrographic analyses and for the other methods used in detecting small quantities of Au and Hg. Although gold (Au) appears in the spectrographic analyses, its lower limit of detection is so high (10 ppm) that the analyses show no gold for all samples by this method. Therefore, spectrographic analyses for gold are omitted in tables 3 and 4, and the lower limit of detection shown on table 1 is for atomic absorption analysis.

Table 2 lists the lithology of each rock sample.

Tables 3 and 4 contain the analytical results for stream-sediment and rock samples, respectively. Analyses listed as N contain too little of the element indicated to detect at the stated lower limit of determination. Analyses followed by L or G contain, respectively, detectable amounts less than or more than the concentration indicated. Tungsten (W) and thorium (Th) analyses were made on all stream sediment and rock samples, but no tungsten or thorium was found by using a lower limit of detection of 50 ppm for tungsten and 100 ppm for thorium. Therefore, the tungsten and thorium analyses are not entered in tables 3 and 4.

Table 5 contains the gold analyses of the panned concentrates. The panned concentrates contained sufficient nonmagnetic heavy minerals to perform only this analysis (see sample weights listed on table 5). As a consequence of the low sample weights, the lower limits of detection range from 0.3 to 830 ppm, with most in the range of 2 to 40 ppm.

DISCUSSION

Anomalous amounts of gold (anomalous in comparison to crustal abundance of about 3 ppb; Simons and Prinz, 1973) were found in ten of the panned-concentrate and five of the stream-sediment samples. The gold concentrations of these samples vary from 6.4 to 2,600 ppm in panned concentrates and from 0.05 to 0.4 ppm in stream sediments, a sample medium in which any detectable amounts of gold are unusual at a lower limit of detection of 0.05 ppm. The drainage areas of the streams containing gold, shown in figure 1, cover much of the quadrangle. It is possible that even more of the quadrangle contains anomalous concentrations of gold. Due to the low concentrations of nonmagnetic heavy minerals in the stream sediments, the presence of gold in some drainages cannot be adequately determined by panning only 2 pan-loads of stream sediment, as done in this study. The low sample weights of the nonmagnetic heavy-mineral panned-concentrate fractions obtained in this study (table 5) result in high and variable lower limits of detection for gold. The area of anomalous gold shown in figure 1 is based on detectable concentrations of gold in stream sediments and panned concentrates and is a minimum prospective area. The area of anomalous gold, based on stream-sediment and panned-concentrate samples, may be much larger than the source areas, which may consist of a few scattered mineralized zones.

The area of anomalous gold extends into the adjacent Brannan Gulch quadrangle as indicated by the high gold concentrations from panned concentrates from part of upper Stices Gulch (6.4, 22, and 2,600 ppm).

The nonmagnetic heavy-mineral fractions analyzed are highly concentrated residues of the stream sediments. Therefore, the analytical concentrations of gold do not directly reflect the amount or richness of gold-mineralized rock in the drainages. The concentrations of gold in these samples may reflect the so-called "nugget effect," which occurs if relatively few grains of gold account for most of the gold in a large volume of material. If this is the case in a drainage, most samples removed from the stream bed will show no gold, but the few samples that capture the scarce gold grains will show relatively large amounts of gold. Also, some of the gold may be associated with mafic or sulfide minerals in the samples. If the gold grain size is small enough, some gold may have been lost during panning.

Thirteen of the rock samples have gold concentrations from 0.05 to 1.75 ppm. Eight of these samples occur in or near the 1 by 5 km fissure-vent occupied by rhyolitic pyroclastic breccia and rhyolite (fig. 1). Two of these samples also contain silver concentrations of 1.5 and 2 ppm (not shown on fig. 1). One of these samples, containing 1.3 ppm gold, was taken near the collar of an exploration drill hole made by Freeport Corp. This sample also had 2,000 ppm arsenic, 150 ppm antimony, 200 ppm lead, and 1,000 ppm zinc. Other rock samples in and near the vent are anomalous in arsenic (1,500 ppm max), antimony (3,000 ppm max; not shown on fig. 1), and mercury (1 to greater than 10 ppm). The rocks containing anomalous amounts of mercury tend to occur farther from the fissure-vent than the other elements mentioned above; this distribution suggests element zonation around the vent.

The gold anomalies in Water Gulch, upper Auburn Creek, and Sutton Creek are not associated with anomalous concentrations of other elements. The rocks in all three anomalies are intensely faulted although the faults themselves are poorly exposed. These faults may have served as pathways for mineralizing epithermal solutions, but it is not clear whether the fault zones themselves, or the adjacent Dooley Volcanics are mineralized. In addition, upper Auburn Creek and the Sutton Creek area are near the probable vent that fed the uppermost rhyolite flow and dome member of the Dooley Volcanics (J. G. Evans, unpublished mapping, 1986). An epithermal system related to that vent may have resulted in localized gold mineralization.

Four occurrences of gold (0.25 to 1.1 ppm) in quartz veins in the Burnt River Schist in the southeast part of the quadrangle are associated with 0.4 ppm gold in stream sediments in lower Auburn Creek (fig. 1). Three of these rock samples also contain silver (0.5 to 1.5 ppm). One of the samples contains 500 ppm zinc. The gold occurrences are at prospects along a part of lower Auburn Creek that has been placered.

Minor gold occurs in talc (0.1 ppm) and serpentinite (0.2 ppm) east of Juniper Hill Spring in the southeast part of the quadrangle (fig. 1). Both samples were taken from shallow workings in which the ultramafic rocks are hosted by Burnt River Schist. Sheared talc and serpentinite that is common in the area near these samples suggests the possibility of more widespread gold concentrations. However, these gold occurrences are not assocated with anomalous concentrations of gold in stream-sediment and panned-concentrate samples collected downstream.

Much of the gold anomaly in Stices Gulch, East Fork Cornet Creek, and upper Mill Creek coincides with part of a zinc anomaly defined by concentrations of zinc in stream-sediment samples greater than or equal to the 200 ppm detection limit. A part of upper Mill Creek, contains a silver anomaly defined by silver concentrations greater than or equal to the 0.5 ppm detection limit in stream sediments.

REFERENCES

Brooks, H.C., McIntyre, J.R., and Walker, G.W., 1976, Geology of the Oregon part of the Baker 1° by 2° quadrangle: Oregon Department of Geology and Mineral Industries, Map GMS-7, scale 1:250,000.

Evans, J.G., in prep., Geologic map of the Dooley Mountain quadrangle, Baker County, Oregon: Oregon Department of Geology and Mineral Industries Geological Map Series GMS- , scale 1:24,000.

Gilluly, James, 1937, Geology and mineral resources of the Baker quadrangle, Oregon: U.S. Geological Survey Bulletin 879, 109 p.

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

Koirtyohann, S.R., and Khalil, Moheb, 1976, Variables in determination of mercury by cold vapor atomic absorption: Analytical Chemistry, v. 48, p. 136-139.

Simons, F.S., and Prinz, W.C., 1973, Gold, in Brobst, D.A., and Pratt, W.P., eds., United States mineral resources: U.S. Geological Survey Professional Paper 820, p. 263-275.

Thompson, C.E., Nakagawa, H.M., and Van Sickle, G.H., 1968, Rapid analysis for gold in geologic materials, in Geological Survey Research 1968: U.S. Geological Professional Paper 600B, p. B130-B132.

Walker, G.W., 1977, Geologic map of Oregon east of the 121st meridian: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-902, scale 1:500,000.

Table 1.--Lower limits of detection for spectrographic and atomic absorption (Au) and Hg analyses. [Values for Fe, Mg, Ca, and Ti are given in weight percent; values for other elements are given in parts per million].

Element	Rock and stream sediment
Ag	0.5
Au (atomic absorption)	0.05
As	200
B	10
Ba	20
Be	1
Bi	10
Ca	0.05
Cd	20
Co	5
Cr	10
Cu	5
Fe	0.05
Hg (atomic absorption)	0.02
La	20
Mg	0.02
Mn	10
Mo	5
Nb	20
Ni	5
Pb	10
Sb	100
Sc	5
Sn	10
Sr	100
Th	100
Ti	0.002
V	10
W	50
Y	10
Zn	200
Zr	10

TABLE 2

Sample	Lithology
DAN080	Brown oxidized tuff
DAN081	Tuff
DAN082	Brown stained tuff
DAN083	Tuff
DAN084	Yellow lithic ash-flow tuff
DAN085	Iron-stained welded tuff, argillically altered
DAN086	Hematite-rich vein
DAN087	Hematite-rich vein
DAN088	Hematite-rich vein
DAN089	Brown oxidized tuff
DAN090	Chlorite schist
DAN091	White quartz vein with veinlets of red and brown oxide
DAN092	White quartz vein with yellow-brown oxide
DAN093	White quartz vein with black oxide
DAN094	Friable brown oxidized welded tuff
DAN095	Friable yellow welded tuff breccia
DAN096	Rhyolite containing red, yellow, and brown oxides
DAN097	Welded lithic ash-flow tuff containing black and brown oxide veins and cement
DAN098	Brown oxidized rhyolite breccia
DAN099	Welded lithic ash-flow tuff containing black and brown oxides
DAN100	Brecciated welded tuff cemented by iron oxide
DAN101	Brecciated rhyolite cemented by silica, and brown and red oxide
DAN102	Welded lithic ash-flow tuff cemented by silica and brown oxide
DAN103	Brecciated welded tuff cemented by brown and red oxide
DAN104	Brecciated welded tuff containing iron oxide
DAN105	Brecciated welded tuff
DAN106	Brecciated welded tuff cemented by brown, black, and red oxide
DAN107	Brecciated welded tuff cemented by dark brown to orange-brown oxide
DAN108	Brown, iron-oxide stained welded tuff
DAN109	Hematite-rich vein
DAN110	Brecciated rhyolite, saprolitic
DAN111	Brecciated rhyolite, saprolitic, containing light brown oxide
DAN112	Welded lithic ash-flow tuff containing brown oxide
DAN113	Fractured rhyolite containing red oxide
DAN114	Brecciated rhyolite containing red oxide
DAN115	Brecciated rhyolite containing brown oxide
DAN116	Welded lithic ash-flow tuff containing brown and black oxide

TABLE 2 - continued

Sample	Lithology
DAN117	Welded tuff containing brown oxide
DAN118	Welded lithic ash-flow tuff cemented by black and brown oxide
DAN119	Brecciated welded tuff cemented by brown oxide
DAN120	Brecciated rhyolite containing brown oxide
DAN121	Welded tuff containing disseminated brown oxide
DAN122	Brecciated welded tuff containing brown oxide
DAN123	Brecciated tuff containing brown oxide
DAN124	Welded tuff containing brown oxide
DAN125	Welded tuff containing brown oxide
DAN126	Welded lithic ash-flow tuff containing red oxide
DAN127	Welded tuff cemented by brown oxide
DAN128	Brecciated perlite containing brown oxide
DAN129	Perlite breccia
DAN130	Perlite breccia containing brown oxide
DAN131	Welded tuff containing red oxide
DAN132	Welded tuff containing brown and red oxide
DAN133	Quartz vein containing brown oxide
DAN134	Brecciated rhyolite cemented by brown oxide
DAN135	Quartz vein containing red and brown oxide
DAN136	Rhyolite containing brown oxide
DAN137	Welded tuff containing brown oxide
DAN138	Welded tuff containing red oxide
DAN139	Tuff breccia
DAN140	Perlite breccia containing brown oxide
DAN141	Welded tuff containing brown oxide
DAN142	Brecciated welded tuff cemented by brown oxide
DAN143	Welded tuff containing brown oxide veins
DAN144	Brecciated welded tuff cemented by brown oxide
DAN145	Brecciated welded tuff cemented by brown oxide
DAN146	Brecciated welded tuff cemented by brown oxide
DAN147	Brecciated welded tuff cemented by brown oxide
DAN148	Brecciated welded tuff cemented by brown oxide
DAN149	Vitrophyre breccia containing brown oxide
DAN150	Brecciated welded tuff cemented by brown oxide
DAN151	Glassy welded tuff containing brown oxide veins
DAN152	Brecciated welded tuff containing red oxide
DAN153	Brecciated rhyolite containing brown oxide
DAN154	Rhyolite breccia containing brown oxide
DAN155	Brecciated welded tuff cemented by brown oxide
DAN156	Welded tuff containing brown oxide
DAN157	Rhyolite containing brown oxide
DAN158	Brecciated welded tuff cemented by brown and black oxide

TABLE 2 - continued

Sample	Lithology
DAN159	Welded lithic ash-flow tuff cemented by brown and black oxide
DAN160	Welded tuff containing red, brown, and black oxide veins
DAN161	Tuff breccia containing brown oxide
DAN162	Tuff breccia containing brown oxide
DAN163	Welded tuff
DAN164	Lithophysal welded tuff containing oxide
DAN165	Welded tuff containing brown oxide
DAN166	Light brown and green talc, sheared
DAN167	Welded tuff cemented by brown oxide
DAN168	Welded tuff containing red oxide
DAN169	Brown oxide in shear zone
DAN170	Brecciated serpentinite containing brown oxide
DAN171	Quartz vein containing red and brown oxide
DAN172	Brecciated white quartz cemented by black and brown oxide
DAN173	Brecciated rhyolite containing brown oxide
DAN174	Welded lithic ash-flow tuff containing brown quartz veins
DAN175	Quartz vein
DAN176	Brecciated welded tuff cemented by brown oxide
DAN177	Brecciated rhyolite containing brown oxide
DAN178	Brecciated welded tuff containing brown and black oxide
DAN179	Brecciated welded tuff cemented by brown oxide
DAN180	Perlite breccia cemented by brown oxide
DAN181	Brecciated rhyolite cemented by brown oxide
DAN182	Welded tuff containing brown oxide
DAN183	Welded tuff
DAN184	Brecciated welded tuff cemented by brown oxide
DAN185	Welded tuff containing brown oxide
DAN186	Brecciated welded tuff cemented by brown oxide
DAN187	Welded tuff containing red and light brown oxide
DAN188	Brecciated welded tuff cemented by brown oxide
DAN189	Brecciated welded tuff containing light brown and red oxide and yellow and brown opal
DAN190	Welded tuff containing red oxide and quartz veins
DAN191	Welded tuff containing red and brown oxide
DAN192	Brecciated rhyolite cemented by red and black oxide
DAN193	Brecciated rhyolite cemented by brown oxide
DAN194	Brecciated rhyolite cemented by red oxide

TABLE 2 - continued

Sample	Lithology
DAN195	Brecciated rhyolite cemented by brown oxide and quartz
DAN196	Brecciated rhyolite cemented by brown oxide
DAN197	Rhyolite containing brown and red oxide
DAN198	Welded lithic ash-flow tuff containing red-brown oxide
DAN199	Quartz vein containing brown and black oxide
DAN200	Brecciated welded tuff containing brown oxide
DAN201	Brecciated welded tuff cemented by brown oxide
DAN202	Welded tuff containing brown oxide
DAN203	Rhyolite containing brown, black, and red oxide veins
DAN204	Rhyolite containing red oxide
DAN205	Rhyolite containing brown and black oxides and green alteration
DAN206	Fractured rhyolite cemented by quartz
DAN207	Brecciated welded tuff containing brown oxide
DAN208	Rhyolite containing veins of brown and black oxide
DAN209	Brecciated welded tuff containing brown, red, and black oxide
DAN210	Silicified welded tuff
DAN211	Fractured welded tuff containing brown oxide and green alteration
DAN212	Welded tuff containing brown oxide
DAN213	Glassy welded tuff containing brown oxide
DAN214	Rhyolite breccia containing brown and black oxide
DAN215	Rhyolite containing brown oxide and green alteration
DAN216	Brecciated welded tuff cemented by brown and black oxide
DAN217	Argillically altered welded tuff
DAN218	Fractured welded tuff containing brown oxide
DAN219	Fractured welded tuff containing brown oxide
DAN220	Friable welded tuff containing brown, yellow, and red oxide
DAN221	Welded tuff containing brown and red oxide
DAN222	Brecciated rhyolite cemented by brown oxide
DAN223	Brecciated welded tuff cemented by brown oxide
DAN224	Brecciated welded tuff cemented by brown oxide
DAN225	Brecciated welded tuff cemented by brown oxide
DAN226	Brecciated welded tuff cemented by brown oxide
DAN227	Rhyolite containing black and red oxide
DAN228	Argillically altered rhyolite containing brown and black oxide
DAN229	Brecciated welded tuff containing brown oxide

TABLE 2 - continued

Sample	Lithology
DAN230	Brecciated welded tuff cemented by brown oxide
DAN231	Fractured welded tuff containing brown oxide veins
DAN232	Welded tuff containing brown and black oxide veins
DAN233	Welded tuff containing brown and black oxide
DAN234	Brecciated welded tuff cemented by brown and black oxide
DAN235	Brecciated slate and quartz containing brown oxide
DAN236	Brecciated metachert cemented by brown and black oxide
DAN237	White quartz containing red, brown, and black oxide
DAN238	White quartz containing brown and black oxide
DAN239	Brecciated slate and quartz containing brown oxide
DAN240	White quartz containing brown and black oxide
DAN241	Brecciated welded tuff containing brown oxide
DAN242	Brecciated welded tuff cemented by brown oxide
DAN243	Welded lithic ash-flow tuff containing brown oxide
DAN244	Brecciated welded tuff cemented by brown and black oxide
DAN245	Brecciated welded tuff containing brown and black oxide
DAN246	Hematite-rich vein
DAN247	Vitrophyre containing brown oxide
DAN248	Brecciated welded tuff cemented by brown and black oxide
DAN249	Brecciated welded tuff cemented by brown and red oxide
DAN250	Welded tuff containing veins of brown oxide
DAN251	Argillically altered and brecciated welded tuff cemented by brown oxide
DAN252	Brecciated welded tuff cemented by brown oxide
DAN253	Welded tuff containing brown oxide
DAN254	Brecciated welded tuff cemented by brown and black oxide
DAN255	Brecciated welded tuff cemented by brown and black oxide
DAN256	Brecciated welded tuff cemented by brown oxide
DAN257	Hematite-rich vein
DAN258	Welded tuff containing brown and black oxide
DAN259	Welded tuff containing red oxide
DAN260	Welded tuff containing brown oxide
DAN261	Welded tuff containing red oxide
DAN262	Welded tuff containing veins of brown oxide

TABLE 2 - Continued

Sample	Lithology
DAN263	Welded tuff containing brown and black oxide
DAN264	Welded tuff containing brown and black oxide
DAN265	Welded tuff containing red, brown, and black oxide
DAN266	Brecciated welded tuff cemented by red, brown, and black oxide
DAN267	Welded tuff containing brown oxide
DAN268	Welded tuff containing red oxide
DAN269	Vitrophyre containing brown oxide
DAN270	Brecciated welded tuff cemented by brown oxide and containing black oxide veins
DAN271	Welded tuff containing brown and black oxide
DAN272	Welded tuff containing brown and black oxide
DAN273	Welded tuff containing brown and black oxide
DAN274	Welded tuff containing red, brown, and black oxide
DAN275	Vitrophyre brecia containing brown oxide veins
DAN276	Brecciated welded tuff containing brown and black oxide veins
DAN277	Silicified welded tuff
DAN278	Silicified welded tuff containing red oxide
DAN279	Silicified welded tuff containing red oxide
DAN280	Brecciated welded tuff cemented by brown and black oxide
DAN281	Vitrophyre containing brown oxide
DAN282	Vitrophyre breccia containing red and light brown oxide
DAN283	Vitrophyre breccia containing red and brown oxide
DAN284	Welded tuff containing red and brown oxide
DAN285	Welded tuff breccia containing brown and black oxide
DAN286	Basalt breccia containing reddish brown, maroon, and green alteration
DAN287	Rhyolite containing brown oxide
DAN288	Tuff breccia containing brown oxide
DAN289	Welded tuff containing brown oxide
DAN290	Rhyolite containing veins of brown and red oxide
DAN291	Brecciated rhyolite cemented by brown oxide
DAN292	Brecciated rhyolite cemented by brown, red, and black oxide
DAN293	Brecciated rhyolite cemented by brown oxide
DAN294	Rhyolite containing brown and black oxide
ERV953	Black quartzite containing white quartz veins
ERV954	Welded lithic ash-flow tuff containing brown oxide and celadonite

TABLE 2 - continued

Sample	Lithology
ERV955	Welded lithic ash-flow tuff containing brown oxide
ERV956	Hematite veins
ERV957	Quartz veins containing brown and black oxide
ERV958	Welded tuff containing brown oxide
ERV959	Brecciated welded tuff cemented by brown oxide
ERV960	Rhyolite containing black oxide
ERV961	Rhyolite containing red oxide
ERV962	Brecciated welded tuff cemented by brown oxide
ERV963	Breciated schist cemented by black and brown oxide
ERV964	Brecciated rhyolite and schist cemented by black and brown oxide
ERV965	Brecciated rhyolite and schist cemented by black and brown oxide
ERV966	Argillite containing brown oxide
ERV967	White quartz containing light brown and black oxide
ERV968	Quartz containing brown and black oxide
ERV969	Brecciated slate cemented by brown and black oxide
ERV970	Brecciated rhyolite containing brown and red oxide
ERV971	Brecciated rhyolite cemented by brown and maroon oxide
ERV972	Hematite veins
ERV973	Brecciated welded lithic ash-flow tuff containing brown oxide veins
ERV974	Brecciated rhyolite cemented by brown oxide
ERV975	Brown oxide cemented welded lithic ash-flow tuff
ERV976	Brown and black oxide cemented welded lithic ash-flow tuff
ERV977	Welded lithic ash-flow tuff containing brown oxide
ERV978	Brecciated rhyolite cemented by brown oxide
ERV979	Brecciated slate cemented by brown and black oxide
ERV980	White quartz containing brown, red, and black oxide
ERV981	Brecciated slate and quartz
ERV982	Brecciated welded tuff cemented by brown and black oxide
ERV983	Hematitic mud
ERV984	Brecciated welded tuff cemented by brown oxide
ERV985	Brecciated welded tuff containing brown oxide
ERV986	Brecciated welded tuff cemented by brown oxide
ERV987	Rhyolite containing black oxide veins
ERV988	Brecciated welded tuff cemented by brown oxide
ERV989	Vitrophyre breccia containing red oxide

TABLE 2 - continued

Sample	Lithology
ERV990	Brecciated welded tuff cemented by brown oxide
ERV991	Welded tuff containing red and brown oxide
ERV992	Quartz containing brown oxide
ERV993	Welded tuff containing brown and black oxide
ERV994	Brecciated slate containing brown oxide
ERV995	Brecciated slate and quartz containing brown oxide
ERV996	Brecciated quartz cemented by brown oxide
ERV997	Quartz containing veins of red, brown, and black oxide
ERV998	Quartz containing brown oxide
ERV999	Quartz containing brown oxide
ERW001	Brecciated white quartz cemented by maroon, black, and brown oxide
ERW002	Brecciated slate cemented by brown and black oxide
ERW003	Lithic ash-flow tuff containing brown oxide
ERW004	Lithic ash-flow tuff containing brown oxide
ERW005	Welded tuff containing brown oxidized opal veins
ERW006	Lithic ash-flow tuff containing oxide cement
ERW007	Brecciated quartz cemented by brown, black, and maroon oxide
ERW008	Brecciated welded tuff cemented by brown oxide
ERW009	Red-brown clay
ERW010	Red and yellow clay
ERW011	Brecciated quartz cemented by brown, black, and maroon oxide
ERW012	Breciated quartz cemented by brown oxide and quartz
ERW013	Tuff containing red oxide
ERW014	Welded tuff containing brown oxide veins
ERW015	Welded lithic ash-flow tuff cemented by brown oxide
ERW016	Welded lithic ash-flow tuff containing red oxide

Table 3.--Analyses of Rock Samples

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 080	10	0.07	0.2	0.05	150	0.5.N	200.N	0.05.N	10.N	700
DAN 081	3	.07	1.5	.3	200	.5.N	200.N	.05.N	15	700
DAN 082	3	.03	.15	.3	150	.5.N	200.N	.05.N	20	1000
DAN 083	2	.07	1	.3	150	.5.N	200.N	.05.N	30	700
DAN 084	3	.15	1	.3	300	.5.N	200.N	.05.N	30	1000
DAN 085	3	.02.L	.05.L	.07	70	.5.L	200.N	.05.N	50	2000
DAN 086	7	.03	.05.L	.07	700	.5.N	200.N	.05.N	30	700
DAN 087	7	.05	.05.L	.07	500	.5.N	200.N	.05.N	20	700
DAN 088	5	.02	.05.L	.07	50	.5.N	200.N	.05.N	10.N	1000
DAN 089	5	.1	1	.3	1500	.5.N	200.N	.05.N	10	1000
DAN 090	5	3	.1	.5	700	.5.N	200.N	.05.N	150	5000.G
DAN 091	1.5	.15	.05.L	.07	700	.5.N	200.N	.05.N	10	700
DAN 092	1.5	.03	.05.L	.1	150	.5.N	200.N	.05.N	10.L	70
DAN 093	.2	.07	.05.L	.002	2000	.5.N	200.N	.05.N	10.N	20.L
DAN 094	10	.15	.7	.3	300	.5.N	200.N	0.25	10.N	700
DAN 095	2	.05	.05	.15	70	.5	1500	.05.N	50	700
DAN 096	5	.03	.05.L	.07	70	.5.N	200	.05.N	50	1000
DAN 097	10	.02.L	.05.L	.05	150	.5.N	200.N	.05.N	10.N	700
DAN 098	5	.02	.05.L	.05	70	.5.N	200.L	.05.N	20	700
DAN 099	7	.02	.05.L	.05	150	.5.N	200.N	.05.N	20	300
DAN 100	3	.02	.15	.03	500	.5.N	200.N	.05.N	20	500
DAN 101	1.5	.02.L	.07	.07	150	.5.N	200.N	.05.N	30	1000
DAN 102	1.5	.03	.05.L	.07	150	.5.N	300	.05.N	300	500
DAN 103	5	.05	.05.L	.07	70	.5.N	200.N	.05.N	20	5000
DAN 104	3	.02.L	.05.L	.07	100	.5.N	200.N	.05.N	15	1000
DAN 105	15	.02	.05.L	.07	50	.5.N	200.N	.05.N	10.L	1000
DAN 106	20	.02	.05.L	.05	500	.5.N	200.N	.05.N	10.N	700
DAN 107	20	.02.L	.05.L	.05	100	.5.N	200.N	.05.N	20	500
DAN 108	7	.03	.05.L	.07	200	.5.N	200	.05.N	70	1000
DAN 109	10	.15	.05.L	.1	300	.5.N	200.L	.05.N	50	700
DAN 110	3	.07	.05	.1	5000.G	20	1500	.05.N	10	1000
DAN 111	5	.15	.05	.1	1500	7	2000	1.3	15	700
DAN 112	20	.03	.05	.07	150	.5.N	500	.05.N	10.N	300
DAN 113	2	.03	.05.L	.07	150	.5.N	200	.05.N	70	300
DAN 114	.3	.1	.05	.1	150	.5.N	200.N	.05.N	70	2000
DAN 115	10	.05	.05.L	.07	200	.5	200.N	.05.N	50	700
DAN 116	10	.05	.05.L	.07	150	.5.N	200.N	.05.N	30	1000
DAN 117	7	.05	.05.L	.05	70	.5.N	200.N	.05.N	20	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 080	5	10.N	20.N	5.N	10.N	20	0.04	20.N	5.N	20.N
DAN 081	2	10.N	20.N	10	10.N	20	.50	20	5.N	20.L
DAN 082	2	10.N	20.N	5.N	10.N	20	.04	20	5.N	20.L
DAN 083	2	10.N	20.N	5.N	10.N	10	.02.L	20	5.N	20.L
DAN 084	2	10.N	20.N	5.N	10.L	10	.02.L	20	5.N	20.L
DAN 085	1.5	10.N	20.N	5.N	10.N	15	.30	20.N	5.N	20.N
DAN 086	10	10.N	20.N	10	10.N	20	.30	20.N	5.N	20.L
DAN 087	7	10.N	20.N	5.N	10.L	15	.08	20.N	5.N	20.L
DAN 088	1.5	10.N	20.N	5.N	10.N	7	.04	20.N	5.L	20.N
DAN 089	1.5	10.N	20.N	10	15	20	.08	20.	5.N	20.N
DAN 090	3	10.N	20.N	30	150	30	.02.N	20.N	5.N	20.N
DAN 091	1.L	10.N	20.N	5.L	70	10	.02.L	20.N	5	20.N
DAN 092	1.N	10.N	20.N	5.N	10.L	70	.02.L	20.N	5.N	20.N
DAN 093	1.L	10.N	20.N	15	10.L	7	.02.L	20.N	5.N	20.N
DAN 094	5	10.N	20.N	7	10.N	30	.02.L	20.L	5.N	20.L
DAN 095	1.5	10.N	20.N	5.N	10.N	20	.04	150	7	20.L
DAN 096	1.5	10.N	20.N	5.N	10.L	10	.10	20.N	10	20.N
DAN 097	7	10.N	20.N	5.N	10.L	10	.04	20.N	5.N	20.N
DAN 098	1.5	10.N	20.N	5.N	10.L	20	4.60	20.N	20	20.N
DAN 099	3	10.N	20.N	5.N	10.N	20	.65	20.L	5.N	20.N
DAN 100	3	10.N	20.N	5.N	10.N	5.L	.35	20.N	5.N	20.N
DAN 101	3	10.N	20.N	5.N	10.L	5	.12	20.L	5	20.N
DAN 102	3	10.N	20.N	5.N	10	5	.40	20	5.L	20.N
DAN 103	1.5	10.N	20.N	5.N	10.N	30	1.10	20.L	5.N	20.L
DAN 104	7	10.N	20.N	5.N	10.L	10	.02.L	20.L	5.N	20.L
DAN 105	3	10.N	20.N	5.N	10.N	10	.02	20.N	5.N	20.N
DAN 106	20	10.N	20.N	5.N	10.N	7	.02.N	20.L	5.N	20.N
DAN 107	7	10.N	20.N	5.N	10.N	5.L	.10	20.N	5.N	20.N
DAN 108	2	10.N	20.N	5.N	10.L	30	.18	20.N	20	20.N
DAN 109	7	10.N	20.N	5.L	50	50	.02.L	20.N	5.N	20.N
DAN 110	3	15	20.N	10	10.L	50	.02	150	15	20.L
DAN 111	3	20	20.N	7	10	30	.06	30	10	20.N
DAN 112	1.5	100	20.N	5.N	10.N	30	.08	20.L	5.N	20.N
DAN 113	2	10.N	20.N	5.N	10.L	5.L	.40	20.L	5.L	20.N
DAN 114	1.5	10.N	20.N	5.N	10	5	.45	20.L	5	20.N
DAN 115	1.5	10.N	20.N	5.N	10.N	50	3.50	20.N	10	20.N
DAN 116	5	10.N	20.N	5.N	10.N	15	.40	20.N	5.N	20.N
DAN 117	1.5	10.N	20.N	5.N	10.L	15	1.30	20.L	5.L	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 080	5.L	20	100.N	5.L	10.N	100.N	100	20	200.L	150
DAN 081	5.L	10	100.N	20	10.N	200	30	50	200.L	200
DAN 082	5.L	20	100.N	20	10.N	100.L	30	30	200.N	200
DAN 083	5	20	100.N	15	10.N	200	20	30	200.L	200
DAN 084	5.L	15	100.N	20	10.N	200	15	50	200.L	200
DAN 085	5	70	100.N	5.L	10.N	100.N	10.L	30	200.N	150
DAN 086	5	50	100.N	5	10.N	100.N	10.L	100	1000	200
DAN 087	5.L	30	100.N	5.L	10.N	100.N	10.L	30	200	150
DAN 088	5	50	100.N	5	10.N	100.N	10.L	30	200.L	200
DAN 089	5.L	10	100.N	15	10.N	200	30	30	200.L	200
DAN 090	50	10.L	100.N	30	10.N	100.N	300	50	200.N	100
DAN 091	70	10.N	100.N	5.L	10.N	100.N	50	10.N	200.N	30
DAN 092	20	10.N	100.N	5.N	10.N	100.N	15	10.N	200.N	15
DAN 093	50	10.N	100.N	5.N	10.N	100.N	10.L	10.N	200.N	10
DAN 094	7	10.L	100.N	10	10.N	200	50	70	200	150
DAN 095	5.L	20	200	5	10.N	100.N	10.L	30	200.N	200
DAN 096	15	100	100.N	5	10.N	1	10.L	50	200.N	200
DAN 097	5.L	50	100.N	5	10.N	100.N	10.L	30	700	150
DAN 098	10	30	100.L	5.L	10.N	100.N	10.L	50	200.N	150
DAN 099	5.L	30	100.N	10	10.N	100.N	10	50	300	150
DAN 100	5.L	30	100.N	5.L	10.N	100.N	10.N	20	200.N	50
DAN 101	5	15	100.N	5.L	10.N	100.N	15	30	200.N	200
DAN 102	5.L	50	3000	5.L	10.N	100.N	10.N	20	200.N	150
DAN 103	5.L	30	100.N	5.L	10.N	100.N	10	30	200.N	200
DAN 104	5.L	30	100.N	5	10.N	100.N	10.L	50	700	200
DAN 105	5.L	50	100.N	5	10.N	100.N	10.L	20	500	150
DAN 106	5	30	100.N	5.L	10.N	100.N	10.L	150	7000	100
DAN 107	5	20	100.N	5.L	10.N	100.N	10.L	30	1000	150
DAN 108	5.L	100	100.N	5	10.N	100.N	10	70	200.N	150
DAN 109	20	20	100.N	7	10.N	100.N	70	30	1000	150
DAN 110	10	300	100.N	5.L	15	100.N	10.L	200	1000	200
DAN 111	5.L	200	150	7	30	100.N	15	50	300	200
DAN 112	5.L	50	100.L	5.L	10.N	100.N	10.L	20	300	150
DAN 113	5.L	50	100.N	5	10.N	100.N	10.L	30	200.N	150
DAN 114	5.L	30	100.N	5	10.N	100.N	10	30	200.N	200
DAN 115	5.L	20	100.L	5.L	10.N	100.N	10.L	30	200.N	200
DAN 116	5.L	30	100.N	5.L	10.N	100.N	10.L	30	500	150
DAN 117	5.L	70	100.N	5.N	10.N	100.N	10.L	20	200.N	150

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 118	7	0.05	0.05.L	0.07	30	0.5.N	200.N	0.05.N	30	1500
DAN 119	2	.03	.5	.07	30	.5.N	200.N	.05.N	10.N	2000
DAN 120	3	.02.L	.5	.07	30	.5.N	200.N	.05.N	10.N	1500
DAN 121	3	.05	.5	.05	30	.5.N	200.N	.05.N	10.L	1500
DAN 122	5	.03	.2	.05	30	.5.N	200.N	.05.N	20	1500
DAN 123	3	.02.L	.07	.07	20	.5.N	200.N	.05.N	15	700
DAN 124	2	.03	.07	.07	70	.5.N	200.N	.05.N	15	700
DAN 125	1.5	.02	.07	.07	30	.5.N	200.N	.05.N	20	1000
DAN 126	.7	.1	.7	.07	70	.5.N	200.N	.05.N	10	2000
DAN 127	10	.02	.07	.03	100	.5.N	200.N	.05.N	10.N	700
DAN 128	7	.02	.15	.03	700	.5.N	200.N	.05.N	15	1000
DAN 129	1	.02	.2	.07	150	.5.N	200.N	.05.N	50	1000
DAN 130	3	.03	.2	.07	150	.5.N	200.N	.05.N	50	1000
DAN 131	5	.03	.3	.07	200	.5.N	200.N	.05.N	30	2000
DAN 132	5	.02	.07	.05	150	.5.N	200.N	.05.N	70	1000
DAN 133	2	.02.L	.05.L	.03	70	.5.N	200.N	.05.N	10.L	50
DAN 134	5	.1	.05.L	.07	200	.5.N	200.N	.05.N	50	700
DAN 135	.7	.02.L	.05.N	.007	50	.5.N	200.N	.05.N	10.L	70
DAN 136	10	.2	.05.L	.07	150	.5.N	200.N	.05.N	20	700
DAN 137	20	.02.L	.05.L	.07	50	.5.N	200.N	.05.N	10.N	150
DAN 138	1.5	.03	.5	.1	500	.5.N	200.N	.05.N	50	1000
DAN 139	1.5	.1	.5	.1	300	1	200.N	.05.N	70	1000
DAN 140	7	.05	.5	.07	100	.5.N	200.N	.05.N	20	1000
DAN 141	7	.05	.5	.1	100	.5.N	200.N	.05.N	20	1000
DAN 142	5	.05	.2	.02	300	.5.N	200.N	.05.N	30	700
DAN 143	10	.05	.3	.1	200	.5.N	200.N	.05.N	10.N	700
DAN 144	7	.03	.2	.03	5000.G	.5.N	200.N	.05.N	10	5000
DAN 145	7	.02	.3	.07	150	.5.N	200.N	.05.N	30	1000
DAN 146	3	.03	.2	.07	1000	.5.N	200.N	.05.N	30	1000
DAN 147	3	.03	.2	.07	50	.5.N	200.N	.05.N	30	1000
DAN 148	5	.05	.3	.07	300	.5.N	200.N	.05.N	50	1000
DAN 149	5	.05	.15	.07	50	.5.N	200.N	.05.N	30	700
DAN 150	3	.02	.15	.07	70	.5.N	200.N	.05.N	30	700
DAN 151	5	.03	.3	.07	70	.5.N	200.N	.05.N	20	1000
DAN 152	15	.15	.7	.3	1000	.5.N	200.N	.05.N	10.N	1500
DAN 153	5	.03	.2	.1	20	.5.N	200.N	.05.N	30	1000
DAN 154	3	.02	.2	.07	150	.5.N	200.N	.05.N	50	1000
DAN 155	10	.02	.1	.07	15	.5.L	200.N	.05.N	15	1000
DAN 156	5	.1	.5	.1	150	.5.N	200.N	.05.N	30	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 118	3	10.N	20.N	5.N	10.N	20	0.10	20.N	5.N	20.N
DAN 119	1.5	10.N	20.N	5.N	10.N	5	3.90	30	5.L	20.L
DAN 120	1	10.N	20.N	5.N	10.N	7	.50	20	5.N	20.N
DAN 121	3	10.N	20.N	5.N	10	10	.40	20	5.N	20.N
DAN 122	2	10.N	20.N	5.N	10	10	.75	20	5.L	20.N
DAN 123	2	10.N	20.N	5.N	10.N	7	1.30	20.L	15	20.N
DAN 124	1.5	10.N	20.N	5.N	10.L	7	10.G	20.L	7	20.N
DAN 125	1.5	10.N	20.N	5.N	10.L	10	1.00	20	5.N	20.L
DAN 126	2	10.N	20.N	5.N	10.N	5.N	.06	20	5.N	20.L
DAN 127	5	10.N	20.N	5.N	10.N	7	.65	20.L	20	20.N
DAN 128	7	10.N	20.N	5.N	10.L	20	1.50	20.L	5.N	20.N
DAN 129	1.5	10.N	20.N	5.N	10.N	5.L	.04	20	5.N	20.N
DAN 130	3	10.N	20.N	50	10.L	15	.24	20	5.L	20.N
DAN 131	2	10.N	20.N	5.N	10.N	10	.04	20	5.N	20.N
DAN 132	1	10.N	20.N	5.N	10.N	10	4.90	20.L	5.N	20.N
DAN 133	1.5	10.N	20.N	5.N	10	30	.12	20.L	5.N	20.N
DAN 134	2	10.N	20.N	7	70	30	.02	20	15	20.N
DAN 135	1.L	10.N	20.N	5.N	10.N	10	.02	20.N	5.N	20.N
DAN 136	3	10.N	20.N	5.N	10.N	700	.06	20.N	5.N	20.N
DAN 137	2	10.N	20.N	5.N	10.N	30	10.G	20.L	5.N	20.L
DAN 138	2	10.N	20.N	5.N	10.N	7	.12	20	5	20.N
DAN 139	2	10.N	20.N	5.N	10.N	7	.06	20	5.L	20.N
DAN 140	7	10.N	20.N	5.N	10.N	30	.04	20.L	5.N	20.N
DAN 141	3	10.N	20.N	5.N	10.N	20	.04	20.N	7	20.L
DAN 142	3	10.N	20.N	5.N	10.N	5.L	.02.L	20.L	5.L	20.N
DAN 143	10	10.N	20.N	7	10.N	30	.04	20.L	10	20.L
DAN 144	7	10.N	20.N	15	10.L	20	.04	70	150	20.L
DAN 145	2	10.N	20.N	5.N	10.N	10	.02.N	20.N	5.L	20.N
DAN 146	7	10.N	20.N	10	10.L	20	.04	20.L	7	20.N
DAN 147	5	10.N	20.N	5.N	10.L	20	.02	20.L	5.N	20.L
DAN 148	3	10.N	20.N	5.N	10.N	20	.08	20.L	5.N	20.N
DAN 149	1.5	10.N	20.N	5.N	10.N	7	.02	20.N	5.N	20.N
DAN 150	3	10.N	20.N	5.N	10.N	5.L	.02	20.N	5.N	20.N
DAN 151	5	10.N	20.N	5.N	10.L	15	.02	20.L	5.N	20.N
DAN 152	3	10.N	20.N	7	10.N	20	.04	20.L	5	20.L
DAN 153	5	10.N	20.N	5.N	10.N	15	.35	20.N	10	20.N
DAN 154	3	10.N	20.N	5.N	10.N	70	.75	20	10	20.N
DAN 155	3	10.N	20.N	5.N	10.N	50	10.G	20.N	10	20.L
DAN 156	2	10.N	20.N	10	10	20	.70	20	20	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 118	5.L	30	100.N	5.L	10.N	100.N	10.L	20	200.L	200
DAN 119	5.L	20	100.N	5.L	10.N	300	10.L	70	200.N	200
DAN 120	5.L	20	100.N	5.L	10.N	300	10.N	70	200.N	150
DAN 121	5.L	30	100.N	5	10.N	100.N	10.L	30	200.N	150
DAN 122	5.L	30	100.N	5.L	10.N	100.N	10	30	200.N	150
DAN 123	5.L	30	100.N	5.N	10.N	100.N	10.L	20	200.N	150
DAN 124	5	20	100.N	5.L	10.N	100.N	20	20	200.N	150
DAN 125	5.L	20	100.N	5.L	10.N	100.N	10	20	200.N	150
DAN 126	5.L	10.L	100.N	5.L	10.N	700	10.L	30	200.N	150
DAN 127	5.L	20	100.N	5.N	10.N	100.N	10.L	20	200.L	50
DAN 128	5.L	20	100.N	5.L	10.N	100.N	50	30	200.L	100
DAN 129	7	30	100.N	5.L	10.N	100.L	10.L	30	200.N	150
DAN 130	50	20	100.N	5.L	10.N	100.N	30	30	200	150
DAN 131	5	30	100.N	5.L	10.N	100.N	15	30	200.N	150
DAN 132	5.L	30	100.N	5.L	10.N	100.N	10.L	20	200.L	150
DAN 133	15	10	100.N	5.N	10.N	100.N	10	10.N	200.N	10
DAN 134	30	100	100.N	5	10.N	100.N	20	50	200.N	200
DAN 135	10	15	100.N	5.N	10.N	100.N	10.L	10.N	200.N	10
DAN 136	30	30	100.N	5	10.N	100.N	50	30	200.L	150
DAN 137	5	50	100.N	7	10.N	100.N	10.L	50	200.N	150
DAN 138	5.L	20	100.N	5.L	10.N	100.L	10.L	50	200.N	150
DAN 139	5.L	30	100.N	5.L	10.N	100	10.L	50	200.N	150
DAN 140	5.L	20	100.N	5	10.N	100.N	20	50	200.N	200
DAN 141	5	30	100.N	5	10.N	100	30	30	200.N	200
DAN 142	5.L	30	100.N	5.L	10.N	100.N	10.L	30	200.L	50
DAN 143	5.L	20	100.N	5	10.N	100.N	20	100	200.L	200
DAN 144	5	20	100.N	5.L	10.N	100.N	70	70	200	100
DAN 145	5.L	20	100.N	7	10.N	100.N	15	15	200.L	200
DAN 146	5.L	20	100.N	5.L	10.N	100.N	50	20	200.L	150
DAN 147	5.L	20	100.N	5.L	10.N	100.N	15	15	200.L	150
DAN 148	5.L	20	100.N	5	10.N	150	20	50	200	150
DAN 149	5.L	20	100.N	5.N	10.N	100.N	15	15	200.N	150
DAN 150	5.L	10	100.N	5.N	10.N	100.N	15	10.L	200.N	150
DAN 151	5.L	20	100.N	5.L	10.N	100.L	15	20	200.N	150
DAN 152	5.L	10	100.N	10	10.N	200	50	20	200.L	150
DAN 153	5.L	20	100.N	5	10.N	100.L	20	20	200.N	150
DAN 154	5.L	20	100.N	5.L	10.N	100.N	15	70	200.N	200
DAN 155	5.L	30	100.N	5	10.N	100.N	10	15	200.N	150
DAN 156	5	30	100.N	5	10.N	100	15	70	200.L	200

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 157	5	0.05	0.15	0.3	50	0.5.N	200.N	0.05.N	20	1000
DAN 158	5	.02	.3	.07	30	.5.N	200.N	.05.N	30	1000
DAN 159	7	.05	.15	.07	70	.5.N	200.N	.05.N	20	700
DAN 160	2	.03	.05.L	.07	100	.5.N	200.N	.05.N	20	1000
DAN 161	5	.07	.1	.2	30	.5.N	200.N	.05.N	10.L	1000
DAN 162	5	.07	.5	.15	150	.5.N	200.N	.05.N	10	700
DAN 163	5	.07	.3	.1	200	.5.N	200.N	.05.N	30	1000
DAN 164	2	.03	.15	.07	50	.5.N	200.N	.05.N	30	1000
DAN 165	15	.05	.15	.07	70	.5.N	200.N	.05.N	10.L	1000
DAN 166	3	7	.1	.005	300	.5.N	200.N	.1	10.N	20.N
DAN 167	7	.15	.15	.05	300	.5.N	200.N	.05.N	15	700
DAN 168	1	.07	.3	.1	70	.5.N	200.N	.05.N	30	700
DAN 169	5	2	7	.03	2000	.5.N	200.N	.05.N	10.N	20.L
DAN 170	7	.2	.05	.005	3000	.5.N	200.N	.2	10.N	500
DAN 171	.3	.05	.05.L	.005	100	.5.N	200.N	.05.N	10	20.L
DAN 172	1	.3	.07	.07	700	.5.N	200.N	.05.N	10	70
DAN 173	2	.05	.15	.07	150	.5.N	200.N	.05.N	50	1000
DAN 174	10	.05	.15	.05	1000	.5.N	200.N	.05.N	10	1000
DAN 175	2	5	.05.L	.002	700	.5.N	200.N	.05.N	30	20.L
DAN 176	3	.05	.2	.07	200	.5.N	200.N	.05.N	30	1000
DAN 177	5	.07	.15	.05	1000	.5.N	200.N	.05.N	15	1500
DAN 178	5	.05	.2	.05	1500	.5.N	200.N	.05.N	10	1500
DAN 179	3	.03	.15	.07	150	.5.N	200.N	.05.N	20	1000
DAN 180	5	.07	.3	.07	200	.5.N	200.N	.05.N	50	1500
DAN 181	3	.03	.3	.1	100	.5.N	200.N	.05.N	30	2000
DAN 182	5	.03	.3	.1	50	.5.N	200.N	.05.N	20	1000
DAN 183	5	.02	.3	.1	100	.5.N	200.N	.05.N	20	1000
DAN 184	10	.03	.2	.1	100	.5.N	200.N	.05.N	20	1000
DAN 185	3	.05	.2	.1	30	.5.N	200.N	.05.N	30	1000
DAN 186	7	.05	.2	.07	150	.5.N	200.N	.05.N	10.L	1000
DAN 187	1.5	.02	.2	.1	70	.5.N	200.N	.05.N	50	1500
DAN 188	3	.02.L	.15	.07	30	.5.N	200.N	.05.N	30	1000
DAN 189	.5	.03	.15	.03	200	.5.N	200.N	.05.N	20	300
DAN 190	2	.1	.5	.2	300	.5.N	200.N	.05.N	20	700
DAN 191	.7	.05	.15	.03	150	.5.N	200.N	.05.N	20	500
DAN 192	5	.07	.05.L	.1	300	.5.N	200.N	.05.N	30	700
DAN 193	3	.02	.05	.07	500	.5.N	200.N	.05.N	30	700
DAN 194	3	.02	.05.L	.05	150	.5.N	200.N	.05.N	15	1000
DAN 195	5	.05	.07	.07	70	.5.N	200.N	.05.N	20	700

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 157	1.5	10.N	20.N	5.N	10.N	10	0.75	20.N	5	20.N
DAN 158	2	10.N	20.N	5.N	10.N	5	.16	20.L	20	20.N
DAN 159	2	10.N	20.N	5.N	10.L	7	.90	20.N	5.N	20.N
DAN 160	1.5	10.N	20.N	5.N	10.N	7	.06	20.L	5.N	20.N
DAN 161	1	10.N	20.N	5.N	10.N	10	10.G	20.N	5.N	20.N
DAN 162	3	10.N	20.N	5.N	10.N	7	.18	20.N	5.N	20.N
DAN 163	3	10.N	20.N	5.N	10.N	15	1.10	20.N	5.N	20.N
DAN 164	2	10.N	20.N	5.N	10.L	7	3.10	20.L	5	20.N
DAN 165	3	10.N	20.N	5.N	10.N	20	.06	20.N	10	20.N
DAN 166	1.N	10.N	20.N	300	3000	50	.02	20.N	5.N	20.N
DAN 167	10	10.N	20.N	5	20	20	.02	20.L	5.N	20.N
DAN 168	2	10.N	20.N	5.N	10.L	5	.02	20	5.N	20.N
DAN 169	2	10.N	20.N	70	3000	20	.35	20.N	5.N	20.N
DAN 170	3	10.N	20.N	70	1500	20	.70	20.N	5.N	20.N
DAN 171	1.N	10.N	20.N	5.N	20	5.L	.02	20.L	5.N	20.N
DAN 172	1.L	10.N	20.N	5.N	70	15	.16	20.L	5.N	20.N
DAN 173	3	10.N	20.N	5.N	10	10	.02	20	5.N	20.N
DAN 174	3	10.N	20.N	7	10	20	.02	20	5.N	20.N
DAN 175	1.N	10.N	20.N	200	1000	30	.04	20.N	5.N	20.N
DAN 176	3	10.N	20.N	5.N	10.N	20	.02.L	20.N	5.N	20.N
DAN 177	5	10.N	20.N	5.N	10.N	7	.02.L	20.N	5.N	20.N
DAN 178	5	10.N	20.N	5.N	10.L	10	.02.L	20.L	5.N	20.N
DAN 179	1.5	10.N	20.N	5.N	10.N	7	.08	20.L	5.L	20.N
DAN 180	3	10.N	20.N	5.N	10.N	50	4.50	20.L	5	20.L
DAN 181	1.5	10.N	20.N	10	10.L	7	5.40	20.N	15	20.N
DAN 182	3	10.N	20.N	5.L	10.N	15	1.10	20.N	10	20.N
DAN 183	3	10.N	20.N	5.L	10.N	10	6.60	20.L	30	20.L
DAN 184	1.5	10.N	20.N	5.N	10.N	7	6.90	20.N	10	20.L
DAN 185	3	10.N	20.N	5.N	10	10	.65	20.N	5.N	20.N
DAN 186	2	10.N	20.N	5.N	10.N	20	.12	20.N	5.N	20.N
DAN 187	2	10.N	20.N	5.N	10.N	5	.08	30	5	20.L
DAN 188	3	10.N	20.N	5.N	10.L	10	.04	20.N	5.N	20.N
DAN 189	1.5	10.N	20.N	5.N	10.N	5.L	.02.L	20.L	5.N	20.N
DAN 190	2	10.N	20.N	5.N	10	5	.02.L	30	5.N	20.L
DAN 191	2	10.N	20.N	5.N	10.L	5.L	.02.L	20.L	5.N	20.N
DAN 192	2	10.N	20.N	5	10.N	10	.16	20.L	5.N	20.L
DAN 193	3	10.N	20.N	5.N	10.L	10	.10	20.N	5.N	20.L
DAN 194	2	10.N	20.N	5.N	10.N	5	.06	20.N	5.N	20.L
DAN 195	1.5	10.N	20.N	5.N	10.N	7	2.00	20.N	15	20.L

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 157	5	10	100.N	15	10.N	100	30	20	200.N	200
DAN 158	5.L	15	100.N	5.L	10.N	100.N	10.L	30	200.N	150
DAN 159	5.L	20	100.N	5.L	10.N	100.N	15	20	200.N	150
DAN 160	5	10	100.N	5.L	10.N	100.N	10.L	20	200.N	150
DAN 161	5.L	10	100.N	10	10.N	300	20	15	200.N	150
DAN 162	5.L	15	100.N	7	10.N	100.N	10	20	200.L	150
DAN 163	5	30	100.N	5	10.N	1	20	70	200.L	200
DAN 164	5.L	30	100.N	5.L	10.N	100.N	10	30	200.N	200
DAN 165	5	20	100.N	10	10.N	100.N	15	30	200	200
DAN 166	5000	10.N	100.N	7	10.N	100.N	20	10.N	200.N	10.N
DAN 167	50	20	100.N	5.L	10.N	100.N	50	30	300	70
DAN 168	10	20	100.N	5.L	10.N	100.N	10.L	20	200.N	150
DAN 169	3000	10.N	100.N	20	10.N	100.N	70	50	200.N	20
DAN 170	3000	10.L	100.N	7	10.N	100.N	100	30	200.N	20
DAN 171	30	10.N	100.N	5.N	10.N	100.N	10	10.N	200.N	10.N
DAN 172	150	10.L	100.N	5.L	10.N	100.N	30	10.L	200.N	20
DAN 173	5	20	100.N	5.L	10.N	100.N	15	20	200.N	150
DAN 174	10	20	100.N	7	10.N	100.N	30	50	500	150
DAN 175	1500	10.L	100.N	5.L	10.N	100.N	10.L	10.N	200.N	10
DAN 176	7	20	100.N	5	10.N	100.L	15	15	200.N	150
DAN 177	5	20	100.N	5.N	10.N	100.N	20	20	200.N	150
DAN 178	5	20	100.N	5.L	10.N	100.N	20	20	200.N	100
DAN 179	5.L	30	100.N	5.L	10.N	100.N	10.L	30	200.N	200
DAN 180	5.L	30	100.N	5.L	10.N	100.L	15	50	300	200
DAN 181	5.L	20	100.N	7	10.N	100.N	15	30	200.N	200
DAN 182	5.L	20	100.N	7	10.N	100.N	30	20	200.L	200
DAN 183	5.L	20	100.N	5.L	10.N	100.N	10	30	200.L	150
DAN 184	5.L	20	100.N	5	10.N	100.N	15	20	200.L	200
DAN 185	5	20	100.N	5.L	10.N	100.N	10.L	70	200.L	200
DAN 186	5.L	20	100.N	5.L	10.N	100.N	10	30	200.L	150
DAN 187	5	20	100.N	5.L	10.N	100.N	10.L	50	200.N	200
DAN 188	5.L	20	100.N	5.L	10.N	100.N	10	10	200.N	150
DAN 189	5	20	100.N	5.L	10.N	100.N	10.L	20	200.N	50
DAN 190	5.L	20	100.N	5	10.N	100	15	50	200.N	200
DAN 191	5.L	20	100.N	5.N	10.N	100.N	10.L	30	200.N	50
DAN 192	5	30	100.N	5.L	10.N	100.N	20	30	200.L	150
DAN 193	5.L	20	100.N	5	10.N	100.N	10.L	30	200.L	200
DAN 194	5.L	20	100.N	5.L	10.N	100.N	10	20	200.N	150
DAN 195	5.L	20	100.N	5.L	10.N	100.N	10.L	20	200.N	150

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 196	5	0.02.L	0.05.L	0.2	30	0.5.N	200.N	0.05.N	10.N	500
DAN 197	3	.05	.07	.3	150	.5.N	200.N	.05.N	15	700
DAN 198	3	.1	.2	.3	200	.5.N	200.N	.05.N	50	700
DAN 199	1	.02.L	.05.L	.003	300	.5.N	200.N	.05.N	10.L	20.L
DAN 200	3	.07	.07	.07	50	.5.N	200.N	.05.N	15	700
DAN 201	7	.05	.15	.07	30	.5.N	200.N	.05.N	10	700
DAN 202	1.5	.02.L	.3	.1	150	.5.N	200.N	.05.N	30	1000
DAN 203	3	.02.L	.3	.15	2000	.5.N	200.N	.05.N	30	1000
DAN 204	2	.02	.5	.15	100	.5.N	200.N	.1	50	1000
DAN 205	3	.02	.3	.15	700	.5.N	200.N	.05.N	30	1000
DAN 206	3	.03	.5	.2	300	.5.N	200.N	.05.N	70	1000
DAN 207	7	.03	.2	.1	150	.5.N	200.N	.05.N	20	1000
DAN 208	10	.03	.3	.1	200	.5.N	200.N	.05.N	10.L	700
DAN 209	7	.02	.15	.05	300	.5.N	200.N	.05.N	10	1000
DAN 210	.7	.02.L	.2	.05	300	.5.N	200.N	.05.N	20	700
DAN 211	3	.05	.3	.1	30	.5.N	200.N	.05.N	20	1000
DAN 212	2	.03	.3	.07	70	.5.N	200.N	.05.N	50	1000
DAN 213	10	.07	.3	.03	300	.5.N	200.N	.05.N	10	1000
DAN 214	20	.05	.2	.07	700	.5.N	200.N	.05.N	10	1000
DAN 215	3	.02	.3	.1	300	.5.N	200.N	.05.N	20	1000
DAN 216	15	.02.L	.05	.07	30	.5.N	200.N	.05.N	10.L	500
DAN 217	7	.02	.1	.07	50	.5.N	200.N	.05.N	20	1000
DAN 218	3	.03	.2	.07	30	.5.N	200.N	.05.N	30	1000
DAN 219	2	.02.L	.15	.07	10	.5.N	200.N	.05.N	30	1000
DAN 220	3	.05	.05	.07	150	.5.N	200.N	.05.N	10	200
DAN 221	5	.02	.05.L	.07	30	.5.N	200.N	.05.N	30	1000
DAN 222	10	.07	.2	.07	50	.5.N	200.N	.05.N	30	1000
DAN 223	5	.03	.3	.1	50	.5.N	200.N	.05.N	20	1000
DAN 224	10	.03	.3	.07	30	.5.N	200.N	.05.N	20	1000
DAN 225	7	.05	.2	.1	150	.5.N	200.N	.05.N	30	1000
DAN 226	7	.03	.3	.07	150	.5.N	200.N	.05.N	20	1000
DAN 227	10	.07	.3	.05	100	.5.N	200.N	.05.N	50	1000
DAN 228	5	.03	.5	.2	500	.5.N	200.N	.05.N	20	1000
DAN 229	3	.05	.2	.03	500	.5.N	200.N	.05.N	20	500
DAN 230	10	.02	.15	.05	5000.G	.5.N	200.N	.05.N	10.N	2000
DAN 231	10	.07	.15	.02	300	.5.N	200.N	.05.N	10	500
DAN 232	2	.03	.15	.02	5000	.5.N	200.N	.05.N	20	2000
DAN 233	3	.03	.5	.1	5000.G	.5.N	200.N	.05.N	30	1500
DAN 234	7	.03	.2	.07	150	.5.N	200.N	.05.N	30	700

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 196	2	10.N	20.N	5.N	10.N	20	7.20	20.N	5.N	20.L
DAN 197	1.5	10.N	20.N	5.N	10.L	20	.06	20.L	5.L	20.L
DAN 198	2	10.N	20.N	5	10.N	15	.12	20	5.L	20.L
DAN 199	1.N	10.N	20.N	5.N	10	20	.08	20.N	5.N	20.N
DAN 200	3	10.N	20.N	5.N	10.L	10	1.30	20.N	5.L	20.N
DAN 201	3	10.N	20.N	5.N	10.N	20	.28	20.N	7	20.N
DAN 202	3	10.N	20.N	5.N	10.N	7	.02	20.L	5.N	20.N
DAN 203	3	10.N	20.N	10	10.N	20	.06	20.L	7	20.L
DAN 204	2	10.N	20.N	5.N	10.L	5	.02.L	20.L	5	20.L
DAN 205	3	10.N	20.N	5.N	10.N	10	.02.L	20.L	5.N	20.N
DAN 206	3	10.N	20.N	10	10	15	.12	20	5.N	20.N
DAN 207	3	10.N	20.N	5.N	10.N	20	.04	20.N	10	20.N
DAN 208	5	10.N	20.N	5.L	10.L	30	.02	20.N	5.N	20.L
DAN 209	2	10.N	20.N	5.N	10.N	7	.14	20.N	5.N	20.N
DAN 210	1.5	10.N	20.N	5.N	10.N	5.L	.02.N	20	5.N	20.N
DAN 211	3	10.N	20.N	5.N	10.N	20	.02.N	20	5.N	20.N
DAN 212	2	10.N	20.N	5.L	10.N	15	.02.N	20	5.L	20.N
DAN 213	7	10.N	20.N	5.N	10.N	20	.04	20.L	5.N	20.N
DAN 214	5	10.N	20.N	5.N	10.L	20	.04	20.N	5	20.N
DAN 215	5	10.N	20.N	10	10	20	.06	20	5.N	20.N
DAN 216	7	10.N	20.N	7	10.N	50	1.40	20.L	30	20.N
DAN 217	5	10.N	20.N	5.N	10.N	20	1.60	20.N	5	20.L
DAN 218	3	10.N	20.N	5.N	10.N	20	.40	20.N	7	20.N
DAN 219	3	10.N	20.N	5.N	10.N	7	2.20	20	5	20.N
DAN 220	1.5	10.N	20.N	5	10.N	7	1.50	20.N	7	20.L
DAN 221	2	10.N	20.N	5.N	10.L	10	.70	20.N	10	20.N
DAN 222	3	10.N	20.N	5.N	10.N	30	.06	20.N	5.N	20.N
DAN 223	3	10.N	20.N	5.N	10.N	20	.04	20.N	5.N	20.N
DAN 224	3	10.N	20.N	5.N	10.N	20	.20	20.N	5.N	20.N
DAN 225	2	10.N	20.N	5.N	10.N	7	.74	20.L	7	20.L
DAN 226	3	10.N	20.N	5.N	10.N	15	.06	20.N	5.N	20.N
DAN 227	5	10.N	20.N	5.N	10.L	15	.14	20.L	10	20.N
DAN 228	3	10.N	20.N	10	15	30	.02.N	20	5	20.N
DAN 229	3	10.N	20.N	5.L	10.N	5.L	.02.N	20.L	5.N	20.N
DAN 230	5	10	20.N	5.N	10.N	15	.02.N	20.N	10	20.N
DAN 231	10	10.N	20.N	5.N	10.N	7	.02.N	20.N	5.N	20.N
DAN 232	3	10.N	20.N	5.N	10.N	5.L	.02.N	20	5	20.N
DAN 233	7	10.N	20.N	15	10.L	20	1.30	20	7	20.L
DAN 234	3	10.N	20.N	5.N	10.L	20	.10	20.N	5.N	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 196	5.L	10.L	100.N	7	10.N	100.N	15	20	200.N	150
DAN 197	5.L	15	100.N	15	10.N	100.N	30	15	200.N	150
DAN 198	5.L	10	100.N	15	10.N	100.N	50	50	200.L	200
DAN 199	20	10.N	100.N	5.N	10.N	100.N	10.L	10.N	200.N	200.N
DAN 200	5.L	20	100.N	7	10.N	100.N	15	70	200.L	150
DAN 201	5.L	30	100.N	5.L	10.N	100.N	10.L	30	200.N	150
DAN 202	5.L	20	100.N	5.L	10.N	100.L	10	20	200.N	200
DAN 203	5.L	20	100.N	5	10.N	100.L	30	30	200.L	200
DAN 204	5.L	15	100.N	5	10.N	100	15	20	200.N	200
DAN 205	5.L	20	100.N	5	30	100.N	30	30	200.N	200
DAN 206	7	20	100.N	15	10.N	200	50	20	200.L	200
DAN 207	5.L	20	100.N	5.L	10.N	100.N	50	30	200.N	200
DAN 208	5.L	10	100.N	5	10.N	100.N	20	20	200	200
DAN 209	5.L	20	100.N	5.L	10.N	100.N	30	30	200	150
DAN 210	5.L	10	100.N	5.N	10.N	100.N	10.L	15	200.N	100
DAN 211	5.L	15	100.N	5.L	10.N	100.L	15	50	200.N	200
DAN 212	5	20	100.N	5.L	10.N	100.N	10	20	200.N	150
DAN 213	7	20	100.N	5.N	10.N	100.N	15	20	200	150
DAN 214	5.L	20	100.N	5	10.N	100.N	20	100	300	150
DAN 215	5.L	15	100.N	7	10.N	100.L	20	100	200.L	200
DAN 216	5.L	30	100.N	7	10.N	100.N	10	70	500	150
DAN 217	5.L	30	100.N	5	10.N	100.N	20	20	200.N	200
DAN 218	5.L	20	100.N	5	10.N	100.N	10	30	200.L	200
DAN 219	5.L	20	100.N	5.L	10.N	100.N	10	50	200.N	200
DAN 220	5.L	10	100.N	5	10.N	100.N	10	30	200.N	300
DAN 221	5.L	20	100.N	5	10.N	100.N	10	30	200.N	200
DAN 222	5.L	20	100.N	5.L	10.N	100.N	20	20	200.N	150
DAN 223	5.L	30	100.N	5	10.N	100.N	30	15	200.L	200
DAN 224	5.L	20	100.N	5	10.N	100.N	15	20	200.N	200
DAN 225	5.L	20	100.N	5	10.N	100.N	15	20	200.N	300
DAN 226	5.L	20	100.N	5.L	10.N	100.N	15	15	200.N	150
DAN 227	5.L	20	100.N	5.L	10.N	300	10	50	200	150
DAN 228	5.L	20	100.N	10	10.N	100	30	50	200.L	200
DAN 229	5.L	70	100.N	5.L	10.N	100.N	15	30	200.N	70
DAN 230	5.L	15	100.N	5.L	10.N	100.N	10	20	200.L	100
DAN 231	5	30	100.N	5.L	10.N	100.N	20	30	200.L	50
DAN 232	5.L	30	100.N	5.L	10.N	100.N	10	30	200.N	50
DAN 233	7	20	100.N	5	10.N	100	70	70	200.L	200
DAN 234	5.L	20	100.N	5	10.N	100.N	10	30	200	150

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 235	3	0.15	0.2	0.3	700	0.5	200.N	1.1	15	300
DAN 236	3	.1	.05.L	.05	150	.5.N	200.N	.05.N	15	200
DAN 237	1.5	.02	.05.L	.01	150	.5.N	200.N	.05.N	10	50
DAN 238	3	.07	.07	.02	1500	.5.N	200.N	.05.N	20	200
DAN 239	5	.2	.07	.2	300	1.5	200.N	1.0	20	1000
DAN 240	1.5	.15	10	.02	1000	1.5	200.N	.25	10.L	70
DAN 241	.7	.03	.3	.07	300	.5.N	200.N	.05.N	30	1000
DAN 242	10	.07	.2	.07	700	.5.N	200.N	.05.N	10	1500
DAN 243	5	.07	.2	.3	200	.5.N	200.N	.05.N	20	1000
DAN 244	7	.05	.2	.05	2000	.5.N	200.N	.05.N	15	1500
DAN 245	10	.03	.2	.05	5000	.5.N	200.N	.05.N	10.N	1500
DAN 246	7	.07	.5	.1	300	.5.N	200.N	.05.N	20	1500
DAN 247	10	.03	.2	.05	5000.G	.5.N	200.N	.05.N	10.N	2000
DAN 248	10	.03	.3	.07	500	.5.N	200.N	.05.N	10.L	1000
DAN 249	5	.03	.15	.02	1000	.5.N	200.N	.05.N	20	500
DAN 250	7	.02.L	.1	.1	150	.5.N	200.N	.05.N	10	1000
DAN 251	7	.03	.3	.1	300	.5.N	200.N	.05.N	10	1500
DAN 252	5	.02.L	.3	.1	150	.5.N	200.N	.05.N	10	1000
DAN 253	10	.05	.3	.1	150	.5.N	200.N	.05.N	10	1000
DAN 254	7	.03	.15	.02	1000	.5.N	200.N	.05.N	10	500
DAN 255	5	.02	.15	.02	300	.5.N	200.N	.05.N	20	300
DAN 256	5	.03	.3	.2	700	.5.N	200.N	.05.N	15	1000
DAN 257	7	.05	.2	.5	700	.5.N	200.N	.05.N	10	1000
DAN 258	7	.02	.15	.02	5000.G	.5.N	200.N	.05.N	15	2000
DAN 259	2	.02	.2	.1	150	.5.N	200.N	.05.N	50	1000
DAN 260	5	.05	.3	.15	150	.5.N	200.N	.05.N	15	1000
DAN 261	2	.03	.3	.1	150	.5.N	200.N	.05.N	50	700
DAN 262	10	.03	.2	.03	300	.5.N	200.N	.05.N	10.N	700
DAN 263	7	.05	.3	.05	200	.5.N	200.N	.05.N	10	1000
DAN 264	20	.02.L	.07	.02	500	.5.N	200.N	.05.N	10.N	500
DAN 265	3	.02.L	.2	.07	5000	.5.N	200.N	.05.N	20	1500
DAN 266	5	.03	.1	.015	5000.G	.5.N	200.N	.05.N	10.N	2000
DAN 267	3	.05	.15	.03	300	.5.N	200.N	.05.N	20	700
DAN 268	3	.02	.2	.07	200	.5.N	200.N	.05.N	30	1000
DAN 269	7	.07	.3	.07	150	.5.N	200.N	.05.N	10.N	1000
DAN 270	15	.02	.1	.01	150	.5.N	200.N	.05.N	10.N	300
DAN 271	7	.05	.2	.05	5000.G	.5.N	200.N	.05.L	15	2000
DAN 272	7	.03	.2	.05	5000.G	.5.N	200.N	.05.N	10	2000
DAN 273	7	.03	.3	.07	300	.5.N	200.N	.05.N	20	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 235	1.N	10.N	20.N	20	20	30	0.08	20.N	5.N	20.N
DAN 236	1.5	10.N	20.N	7	20	30	.02.N	20.N	5.N	20.N
DAN 237	1.N	10.N	20.N	5.N	15	30	.04	20.N	5.L	20.N
DAN 238	1.N	10.N	20.N	70	20	30	.14	20.N	10	20.N
DAN 239	1.L	10.N	20.N	50	20	150	.14	20.N	5.N	20 N
DAN 240	1.N	10.N	20.N	5.N	10	20	.24	20.L	5.N	20.N
DAN 241	2	10.N	20.N	5.N	10.N	20	.04	20	5.N	20.N
DAN 242	5	10.N	20.N	5.N	10.N	20	.02	20.N	5.L	20.N
DAN 243	2	10.N	20.N	5.N	10.N	20	.02	20.N	5.N	20.L
DAN 244	3	10.N	20.N	7	10.N	20	.02	20.N	7	20.N
DAN 245	7	10.N	20.N	5.N	10.N	30	.02	20.N	5.N	20.N
DAN 246	3	10.N	20.N	5.N	10.N	30	.02	20.N	5.N	20.L
DAN 247	5	10.N	20.N	7	10.N	30	.04	20.N	5.N	20.N
DAN 248	5	10.N	20.N	5.N	10.N	30	.04	20.N	5.N	20.N
DAN 249	3	10.N	20.N	5.N	10.N	5	.02.L	20.N	5.N	20.N
DAN 250	7	10.N	20.N	5.N	10.N	7	.08	20.N	5.N	20.N
DAN 251	5	10.N	20.N	5.N	10.N	30	.02.N	20.N	5.L	20.N
DAN 252	5	10.N	20.N	5.N	10.N	10	.02	20.N	5.N	20.N
DAN 253	5	10.N	20.N	5.N	10.N	20	.02	20.N	5.N	20.N
DAN 254	5	10.N	20.N	5.N	10.N	5	.02	20.L	5.N	20.N
DAN 255	3	10.N	20.N	5.N	10.N	5.L	.02	20.N	5.N	20.N
DAN 256	3	10.N	20.N	5.L	10.N	15	.02	20.N	5.N	20.N
DAN 257	10	10.N	20.N	5.N	10.N	30	2.20	20.L	70	20.N
DAN 258	3	10.N	20.N	5.N	10.N	5.L	1.30	20.N	10	20.N
DAN 259	3	10.N	20.N	5.N	10.N	7	.02.L	20	5.L	20.N
DAN 260	3	10.N	20.N	5.N	10.N	30	.02.L	20.L	5.N	20.L
DAN 261	3	10.N	20.N	5.N	10.L	7	.02.L	20	5.L	20.N
DAN 262	7	10.N	20.N	5.L	10.N	50	.16	20.N	10	20.N
DAN 263	5	10.N	20.N	5.N	10.N	50	02	20.N	5.N	20.N
DAN 264	7	10.N	20.N	7	10.N	100	.02	20.N	5.N	20.N
DAN 265	3	10.N	20.N	7	10.N	20	.45	20.L	5	20.N
DAN 266	7	10.N	20.N	5	10.N	7	.10	20.L	10	20.N
DAN 267	3	10.N	20.N	5.N	10.N	5.L	.06	20.L	15	20.N
DAN 268	3	10.N	20.N	5.N	10.N	10	.02.N	20.L	5.N	20.N
DAN 269	3	10.N	20.N	5.N	10.N	30	.02.N	20.N	5.N	20.N
DAN 270	15	10.N	20.N	5.N	10.N	7	.02.N	20.N	5.N	20.N
DAN 271	10	10.N	20.N	10	10.N	20	.04	30	30	20.N
DAN 272	10	10.N	20.N	30	10.N	20	.06	20	30	20.N
DAN 273	5	10.N	20.N	5.N	10.N	30	.02.N	20.N	5	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 235	30	10.N	100.N	5	10.N	200	70	15	200.L	50
DAN 236	70	10	100.N	5.N	10.N	100.N	30	10.L	200.N	20
DAN 237	20	10.N	100.N	5.N	10.N	100.N	15	10.N	200.N	10
DAN 238	200	10.N	100.N	5.L	10.N	100.N	30	30	1000	15
DAN 239	100	10	100.N	7	10.N	100.N	50	20	500	30
DAN 240	10	10.N	100.N	5.L	10.N	200	15	30	200.N	10.N
DAN 241	5	10.N	100.N	5.L	10.N	100.N	15	30	200.N	150
DAN 242	5	20	100.N	5	10.N	100.N	70	50	200	150
DAN 243	5.L	15	100.N	15	10.N	100.N	30	20	200.L	200
DAN 244	10	20	100.N	5.L	10.N	100.N	15	20	300	150
DAN 245	7	15	100.N	5.L	10.N	100.N	20	30	300	150
DAN 246	5	20	100.N	7	10.N	100.L	50	30	200.N	300
DAN 247	5.L	10	100.N	5.L	10.N	100.N	50	20	200	150
DAN 248	5.L	15	100.N	7	10.N	100.N	50	30	200	150
DAN 249	5.L	15	100.N	5.L	10.N	100.N	15	20	200.L	30
DAN 250	5.L	15	100.N	5.L	10.N	100.N	10.L	30	200	200
DAN 251	5.L	15	100.N	5	10.N	100.N	30	30	200.L	200
DAN 252	5.L	15	100.N	5.L	10.N	100.N	30	15	200.L	150
DAN 253	5.L	20	100.N	5	10.N	100.N	50	30	200.L	150
DAN 254	5.L	20	100.N	5.L	10.N	100.N	15	20	200.L	30
DAN 255	5.L	20	100.N	5.L	10.N	100.N	10	30	200.L	30
DAN 256	5.L	15	100.N	10	10.N	100	20	30	200	200
DAN 257	5.L	20	100.N	5.L	10.N	100.N	50	50	200	100
DAN 258	5.L	20	100.N	5.L	10.N	100.N	10.L	20	200.N	50
DAN 259	5.L	20	100.N	5.L	10.N	100.N	10	20	200.N	150
DAN 260	5.L	15	100.N	7	10.N	150	20	70	200.L	200
DAN 261	5.L	20	100.N	5.L	10.N	100.L	20	30	200.N	150
DAN 262	5	10	100.N	7	10.N	100.N	30	100	500	150
DAN 263	5.L	20	100.N	5	10.N	100.L	50	50	200	150
DAN 264	7	10	100.N	10	10.N	100.N	30	30	700	30
DAN 265	5.L	15	100.N	5.L	10.N	100.L	10.L	30	200.L	150
DAN 266	5.L	15	100.N	5.L	10.N	100.N	20	20	200	30
DAN 267	5.L	20	100.N	5.L	10.N	100.N	15	20	200.N	50
DAN 268	5.L	15	100.N	5.L	10.N	100.L	20	20	200.N	150
DAN 269	7	20	100.N	5	10.N	100	30	30	200.L	200
DAN 270	5.L	20	100.N	5.L	10.N	100.N	10.L	20	200.L	15
DAN 271	5	20	100.N	5.L	10.N	100	70	100	200	150
DAN 272	5.N	20	100.N	5.L	10.N	100.L	70	100	200	200
DAN 273	5.L	20	100.N	7	10.N	100.L	30	50	200.L	150

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Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
DAN 274	3	0.03	0.3	0.1	1500	0.5.N	200.N	0.05.N	15	1000
DAN 275	3	.05	.3	.05	200	.5.N	200.N	.05.N	20	1000
DAN 276	5	.05	.15	.02	5000.G	.5.N	200.N	.05.N	15	5000
DAN 277	2	.03	.2	.07	500	.5.N	200.N	.05.N	50	1000
DAN 278	1	.03	.15	.07	300	.5.N	200.N	.05.N	30	1000
DAN 279	1.5	.03	.07	.1	100	.5.N	200.N	.05.N	15	1000
DAN 280	7	.05	.15	.03	100	.5.N	200.N	.05.N	10.L	1000
DAN 281	7	.03	.2	.1	70	.5.N	200.N	.05.N	15	5000.G
DAN 282	3	.02.L	.2	.07	30	.5.N	200.N	.05.N	20	1000
DAN 283	7	.05	.15	.2	150	.5.N	200.N	.05.N	30	1000
DAN 284	2	.02	1	.2	150	.5.N	200.N	.05.N	30	1000
DAN 285	15	.07	.7	.2	500	.5.N	200.N	.05.N	10.N	700
DAN 286	3	.15	1.5	.5	300	.5.N	200.N	.05.N	15	1000
DAN 287	3	.02.L	.2	.07	150	.5.N	200.N	.05.N	30	1000
DAN 288	5	.15	1.5	.3	200	.5.N	200.N	.05.N	20	1000
DAN 289	5	.03	.05.L	.07	150	.5.N	200.N	.05.N	30	5000.G
DAN 290	7	.03	.05	.07	50	.5.N	200.N	.05.N	20	5000.G
DAN 291	7	.03	.05.L	.07	70	.5.N	200.N	.05.N	30	500
DAN 292	10	.02.L	.07	.07	70	.5.N	200.N	.05.N	15	1000
DAN 293	5	.02.L	.05	.05	20	.5.N	200.N	.05.N	10.L	700
DAN 294	7	.03	.05.L	.07	150	.5.N	200.N	.1	10.N	1500
ERV 952	Sample missing									
ERV 953	.15	.02.L	.05.N	.002	70	.5.N	200.N	.05.N	10	20.L
ERV 954	1.5	.05	.05	.1	70	.5.N	200.N	.05.N	15	700
ERV 955	7	.07	1.5	.3	1500	.5.N	200.N	.05.N	20	700
ERV 956	20	.07	.05	.07	500	.5.N	200.N	.05.N	20	500
ERV 957	1.5	.3	.15	.2	300	.5.N	200.N	.05.N	10.L	150
ERV 958	1	.1	.1	.1	70	.5.N	200.N	.10	20	70
ERV 959	5	.07	.2	.05	100	.5.N	200.N	.15	30	1000
ERV 960	.5	.05	.5	.07	1500	.5.N	200.N	.05.N	30	1000
ERV 961	3	.05	.1	.07	100	.5.N	200.N	.05.N	10.L	1000
ERV 962	7	.05	.2	.05	300	.5.N	200.N	.05.N	20	500
ERV 963	15	.5	.07	.15	5000.G	.5.N	200.N	.05.N	20	1000
ERV 964	20.G	.1	.05	.07	5000.G	.5.N	200.N	.05.N	20	200
ERV 965	15	.1	.07	.1	5000.G	.5.N	200.N	.05.N	20	1000
ERV 966	15	1	.2	1.G	3000	.5.N	200.N	.05.N	30	700
ERV 967	2	.1	.15	.07	5000	.5.N	200.N	.10	10.L	20
ERV 968	2	.02	.05.N	.005	200	.5.N	200.N	.05.N	10.L	20.L
ERV 969	10	.7	.1	.1	500	.5.N	200.N	.10	30	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
DAN 274	3	10.N	20.N	7	10.N	20	0.16	20.N	5.L	20.N
DAN 275	2	10.N	20.N	5.N	10.N	7	.02.N	20.L	5	20.N
DAN 276	7	10.N	20.N	5.N	10.N	7	.35	20.L	7	20.N
DAN 277	3	10.N	20.N	5.N	10.N	7	.02.L	20	5	20.N
DAN 278	2	10.N	20.N	5.N	10.N	7	.02.L	20	5.N	20.N
DAN 279	2	10.N	20.N	5.N	10.N	7	.08	20	5	20.N
DAN 280	7	10.N	20.N	5.N	10.N	10	5.50	20.L	5.N	20.N
DAN 281	3	10.N	20.N	5.N	10.N	30	.14	20.L	5.N	20.N
DAN 282	1.5	10.N	20.N	5.N	10.N	7	.02	20.L	7	20.N
DAN 283	1.5	10.N	20.N	5.N	10.N	30	.02.N	20.L	5.L	20.N
DAN 284	1.5	10.N	20.N	5.L	10.N	15	.14	20	5.N	20.N
DAN 285	2	10.N	20.N	7	10.N	30	.02	20.N	5.N	20.N
DAN 286	1.5	10.N	20.N	7	10.N	15	.04	20	5.N	20.N
DAN 287	5	10.N	20.N	5.N	10.N	15	.02.N	20	5.L	20.N
DAN 288	2	10.N	20.N	5	10.N	20	.02.N	20.N	5.N	20.N
DAN 289	1.5	10.N	20.N	5.N	10.N	10	.45	20.L	5.L	20.N
DAN 290	3	10.N	20.N	5.N	10.N	20	.50	20.N	5.N	20.N
DAN 291	3	10.N	20.N	5.N	10.N	30	.22	20.N	5.N	20.N
DAN 292	1.5	10.N	20.N	5.N	10.N	20	.02	20.N	5.N	20.N
DAN 293	1.5	10.N	20.N	5.N	10.N	7	.06	20.N	5.N	20.N
DAN 294	1	10.N	20.N	5.N	10.N	50	.55	20.N	5.N	20.N
ERV 952	Sample missing									
ERV 953	1.L	10.N	20.N	5.N	10.N	5.N	.02.L	20.L	5.N	20.N
ERV 954	1.L	10.N	20.N	5.N	10.N	5	.02.L	20.N	5.N	20.L
ERV 955	1	10.N	20.N	7	10.N	15	.02.L	50	5.N	20.L
ERV 956	20	10.N	20.N	5.L	10.L	7	.26	50	5	20.N
ERV 957	1.L	10.N	20.N	5	10.N	5.L	.02.N	20.L	5.N	20.N
ERV 958	1	10.N	20.N	5.N	10.N	5.L	.12	70	5.N	20.L
ERV 959	1.5	10.N	20.N	5.N	10.N	5	.02.L	50	7	20.N
ERV 960	1.L	10.N	20.N	5.L	10.N	5.N	.02.N	70	5.N	20.N
ERV 961	1.L	10.N	20.N	5.L	10.N	20	.02	70	7	20.L
ERV 962	1.5	10.N	20.N	5.N	10.N	5	.02.N	50	5.N	20.N
ERV 963	1	10.N	20.N	50	150	50	.02.N	20.N	20	20.N
ERV 964	3	10.N	20.N	7	50	15	.02.L	20.N	5.N	20.N
ERV 965	10	10.N	20.N	7	10	7	.45	70	5	20.N
ERV 966	1	10.N	20.N	50	200	150	.06	50	5.N	30
ERV 967	1.L	10.N	20.N	7	20	15	.04	20.L	5.N	20.N
ERV 968	1.L	10.N	20.N	5	10.N	30	.02.N	20.N	5.N	20.N
ERV 969	2	10.N	20.N	10	50	50	.02.L	70	15	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
DAN 274	5.L	10	100.N	7	10.N	100.L	30	20	200.L	150
DAN 275	5	30	100.N	5.L	10.N	100.N	10.L	30	200.N	150
DAN 276	5.L	20	100.N	5.L	10.N	100.N	30	50	200.N	50
DAN 277	5	20	100.N	5.L	10.N	100.L	15	100	200.N	200
DAN 278	5	20	100.N	5.L	10.N	100.N	10.L	50	200.N	200
DAN 279	5.L	15	100.N	5	10.N	100.N	15	50	200.N	200
DAN 280	5.L	20	100.N	5.L	10.N	100.N	10.L	30	200	100
DAN 281	10	15	100.N	5	10.N	100	10.L	30	700	200
DAN 282	5	20	100.N	5.L	10.N	100.N	10.L	20	200.L	200
DAN 283	5.L	30	100.N	10	10.N	100.N	10	20	500	200
DAN 284	5.L	20	100.N	5	10.N	200	10	20	200.N	200
DAN 285	5	10.L	100.N	10	10.N	150	50	30	300	150
DAN 286	5.L	10.L	100.N	15	10.N	300	30	50	200	200
DAN 287	5	20	100.N	5.L	10.N	100.N	10	70	200.L	200
DAN 288	5.L	10	100.N	15	10.N	200	50	30	200.L	200
DAN 289	5.L	30	100.N	5.L	10.N	100.N	10.L	50	200.N	200
DAN 290	5.L	30	100.N	5	10.N	100.N	10.L	30	200	200
DAN 291	5.L	30	100.N	5.L	10.N	100.N	10.L	30	500	200
DAN 292	5.L	30	100.N	5	10.N	100.N	10.L	50	200.L	200
DAN 293	5.L	30	100.N	5.L	10.N	100.N	10.N	30	200.L	200
DAN 294	5.L	70	150	5.L	10.N	100.N	10.L	20	200.L	150
ERV 952	Sample missing									
ERV 953	5.L	10.N	100.N	5.N	10.N	100.N	10.L	10.L		10.N
ERV 954	5.N	15	100.N	5	10.N	100	10.L	50		300
ERV 955	5.N	15	100.N	20	10.N	300	30	50	200.L	200
ERV 956	5	20	150	5.L	10.N	100.N	50	70	500	200
ERV 957	5.L	10.L	100.N	15	10.N	100.L	30	70	200.N	100
ERV 958	5.N	20	100.N	5.L	10.N	100.N	10	100	200.N	500
ERV 959	5.L	20	100.N	5	10.N	100.L	15	15	200.N	150
ERV 960	5.N	20	100.N	5.L	10.N	100.L	10.L	30	200.N	200
ERV 961	5.L	20	100.N	7	10.N	100.L	15	50	200.N	200
ERV 962	5.N	20	100.N	5	10.N	100.N	20	30	200	70
ERV 963	150	10.N	100.N	10	10.N	100.L	100	10	500	50
ERV 964	15	10	100.N	5.L	10.N	100.N	15	10.L	200	30
ERV 965	5	20	100.N	5	10.N	100.L	15	70	500	300
ERV 966	200	10.L	100.N	30	10.N	100.L	200	30	200.L	150
ERV 967	50	10.N	100.N	7	10.N	100	20	10	200.N	10.L
ERV 968	15	10.N	100.N	5.L	10.N	100.L	10.L	10.L	200.L	10.N
ERV 969	20	30	100.N	20	10.N	1000	150	20	200	150

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
ERV 970	1	0.03	0.05.L	0.03	300	0.5.N	200.N	0.05.N	70	500
ERV 971	5	.03	.05.L	.1	100	.5.N	200.N	.05.N	10.L	700
ERV 972	20	.05	.05.L	.07	100	2	200.N	.05	30	300
ERV 973	3	.07	.05.L	.1	1000	.7	200.N	.05.N	15	1000
ERV 974	10	.03	.05.L	.1	50	1.5	200.N	1.75	15	2000
ERV 975	20	.02.L	.05.L	.1	50	.5.N	200.N	.05.N	10.L	1000
ERV 976	7	.03	.05.L	.05	100	.5.N	200.N	.05.N	10	700
ERV 977	7	.03	.05.L	.07	150	.5.N	200.N	.05.N	20	1000
ERV 978	5	.02.L	.05.L	.1	30	.5	200.N	.05	10.N	1500
ERV 979	15	.3	.05.L	.2	5000.G	.5.N	200.N	.05.N	70	500
ERV 980	7	.5	.05.L	.07	50	.5.N	300	.05.N	50	500
ERV 981	5	.2	.05.L	.07	5000	.5.N	200.N	.05.N	15	200
ERV 982	15	.02	.05.L	.07	100	.5.N	200.N	.05.N	50	1000
ERV 983	15	.05	.05.L	.05	150	.5.N	200.N	.05.N	50	100
ERV 984	7	.05	.05.L	.1	100	.5.N	200.N	.05.N	30	700
ERV 985	10	.02.L	.05.N	.1	20	.5.N	200.N	.05.N	20	1000
ERV 986	10	.05	.07	.05	200	.5.N	200.N	.05.N	20	1000
ERV 987	.7	.02	.05	.03	5000.G	.5.N	200.N	.10	10.N	5000.G
ERV 988	15	.02	.05	.05	500	.5.N	200.N	.60	50	700
ERV 989	2	.03	.3	.1	200	.5.N	200.N	.05.N	20	1500
ERV 990	20	.05	.2	.02	700	.5.N	200.N	.05.N	20	500
ERV 991	15	.03	.2	.1	700	.5.N	200.N	.05.N	20	1000
ERV 992	10	.07	.05.L	.05	200	.5.L	200.N	.05.N	15	200
ERV 993	20	.05	.07	.02	1500	.5.N	200.N	.05.N	20	500
ERV 994	10	.3	.05.L	.15	200	.5.N	200.N	.05.N	30	700
ERV 995	20	.15	.05.L	.1	500	.5.N	200.N	.05.N	20	300
ERV 996	20	.7	.05.L	.15	500	.5.L	200.N	.05.N	30	700
ERV 997	20	2	.2	.5	5000.G	.5.N	200.N	.05.N	10.N	1000
ERV 998	5	.07	.05	.02	100	.5	200.N	.05.N	15	200
ERV 999	5	.07	.05	.05	150	.5.L	200.N	.05.N	15	300
ERW 001	10	.1	.05	.07	300	.5.L	200.N	.05.N	20	300
ERW 002	20	.15	.05	.1	200	1.5	200.N	.05.N	20	300
ERW 003	10	.07	.2	.1	50	.5.N	200.N	.05.N	20	700
ERW 004	7	.05	.2	.1	100	.5.N	200.N	.05.N	30	700
ERW 005	5	.07	.2	.1	500	.5.N	200.N	.05.N	30	700
ERW 006	15	.1	.5	.1	500	.5.N	200.N	.05.N	30	1000
ERW 007	5	.05	.05.L	.03	300	.5.N	200.N	.05.N	10	500
ERW 008	20	.1	.15	.03	5000.G	.5.N	200.N	.05.N	20	1500
ERW 009	3	.7	.3	.3	5000.G	.5.N	200.N	.05.N	20	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
ERV 970	1	10.N	20.N	5.N	10.N	5.N	0.02.N	20.L	5.N	20.N
ERV 971	1	10.N	20.N	5.N	10.N	7	.06	20.N	5	20.N
ERV 972	1.5	20	20.N	5.L	10.N	20	.04	20.N	7	20.N
ERV 973	1.L	10.N	20.N	5.L	15	5.L	.04	20.L	5.L	20.L
ERV 974	1.L	10.N	20.N	5.N	10.N	150	.35	30	50	20.N
ERV 975	1	10.N	20.N	5.N	10.N	15	.02	20.N	5.N	20.N
ERV 976	1.5	10.N	20.N	5.N	10.N	15	.02.	20.N	5.N	20.N
ERV 977	3	10.N	20.N	5.N	10.N	7	.02.L	20.N	5.L	20.L
ERV 978	1.N	10.N	20.N	5.N	10.N	30	.12	50	5.L	20.N
ERV 979	2	10.N	20.N	20	100	200	.06	50	7	20.N
ERV 980	1	10.N	20.N	30	700	150	.02	20 N	10	20.N
ERV 981	3	10.N	20.N	30	10.L	70	.02.N	20.N	5	20.N
ERV 982	3	10.N	20.N	5.N	10.N	15	.02.L	20.N	5.N	20.N
ERV 983	1.L	10.N	20.N	5.N	10.L	15	.40	20.N	7	20.N
ERV 984	1.5	10.N	20.N	5.N	10.L	10	.08	70	5	20.L
ERV 985	1	10.N	20.N	5.N	10.N	5.L	.24	50	5.N	20.L
ERV 986	1	10.N	20.N	5.N	10.N	5.L	.90	50	5	20.N
ERV 987	3	10.N	50	100	10.N	30	7.50	100	700	20.N
ERV 988	7	10.N	20.N	5.N	10.N	20	.36	50	15	20.N
ERV 989	1	10.N	20.N	5.N	10.N	5.L	.22	50	7	20.N
ERV 990	15	10.N	20.N	5.N	10.N	5	.10	30	5.N	20.N
ERV 991	3	10.N	20.N	5.N	10.N	20	.02	20.L	5	20.N
ERV 992	1.N	10.N	20.N	5.L	30	200	.02	20.L	15	20.N
ERV 993	10	10.N	20.N	5.N	10.L	10	.02.L	30	7	20.N
ERV 994	1.L	10.N	20.N	5.L	50	100	.35	20.N	70	20.N
ERV 995	1	10.N	20.N	70	70	300	.20	70	7	20.N
ERV 996	2	10.N	20.N	20	500	150	.40	30	15	20.N
ERV 997	1.N	10.N	20.L	70	200	100	.04	20.N	5.N	20.N
ERV 998	1.N	10.N	20.N	5	20	100	.04	20.N	5	20.N
ERV 999	1.L	10.N	20.N	10	20	150	.10	20.N	10	20.N
ERW 001	1	10.N	20.N	50	30	200	.10	20.N	7	20.N
ERW 002	3	10.N	20.N	10	70	200	.18	20.L	15	20.N
ERW 003	3	10.N	20.N	5.N	10.N	10	.02.L	50	5.L	20.L
ERW 004	2	10.N	20.N	5.N	10.L	10	.02.L	70	5.N	20.N
ERW 005	2	10.N	20.N	5.L	10.N	10	.02.N	50	5.N	20.N
ERW 006	2	10.N	20.N	5	10.N	5	.02.N	70	5.N	20.N
ERW 007	1.L	10.N	20.N	20	10.L	300	.04	50	10	20.N
)08	3	10.N	20.N	70	10.N	30	.02.N	20.N	5.N	20.N
)09	1.5	10.N	20.N	70	500	70	.06	70	5.N	20.L

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Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
ERV 970	5.N	10.L	100.N	5.L	10.N	100.L	10.L	20	200.N	100
ERV 971	5.N	30	100.N	5	10.N	100.L	10.L	30	200.L	200
ERV 972	5.L	70	100.N	10	10.N	100.N	10.L	30	200.L	100
ERV 973	5.L	15	100.N	7	10.N	100	30	50	200.N	200
ERV 974	5.N	50	100.N	5.L	10.L	100	10.L	50	200.N	150
ERV 975	5.N	50	100.N	5	10.N	100.N	10.N	20	200.N	500
ERV 976	5.N	20	100.N	5	10.N	100.N	10.L	20	200.N	150
ERV 977	5.N	50	100.N	7	10.N	100.L	10.L	50	300	300
ERV 978	5.N	70	100.N	5	10.N	300	10.L	50	200.N	200
ERV 979	50	70	100.N	15	10.N	100.N	150	20	200	150
ERV 980	300	20	100.N	10	10.N	100.N	50	15	300	100
ERV 981	70	10.N	100.N	5	10.N	100.N	30	20	200	30
ERV 982	5.N	50	100.N	7	10.N	100.N	10.N	30	200	200
ERV 983	5.L	15	100.N	5.L	10.N	100.N	15	15	200	70
ERV 984	5.L	50	100.N	7	10.N	100.L	10	50	300	200
ERV 985	5.N	10	100.N	5.L	10.N	100.N	10.N	30	200.L	200
ERV 986	5.L	20	100.N	5	10.N	100.L	10.L	30	200.L	150
ERV 987	7	50	100.N	5.L	10.N	500	200	200	500	100
ERV 988	5.L	20	100.N	5.L	10.N	100.N	10.L	30	200.L	100
ERV 989	5.N	20	100.N	5.L	10.N	100	10	30	200.N	150
ERV 990	5.L	30	100.N	5.L	10.N	100	15	50	200.L	50
ERV 991	5.L	15	100.N	5.L	10.N	100	30	30	200.L	500
ERV 992	50	10.L	100.N	5.L	10.N	100.N	100	10	200.L	20
ERV 993	5	15	100.N	5.L	10.N	100.N	70	50	200	30
ERV 994	15	10	100.N	10	10.N	100.N	150	15	200.L	70
ERV 995	150	10.L	100.N	10	10.N	100.N	100	50	1500	50
ERV 996	300	10.N	100.N	10	10.N	100.N	150	50	1000	50
ERV 997	200	10.N	100.N	20	10.N	100	150	30	500	70
ERV 998	30	10.N	100.N	5.L	10.N	100.N	50	10	300	10.L
ERV 999	50	10	100.N	7	10.N	100.N	50	15	300	20
ERW 001	150	10	100.N	5	10.N	100.N	70	20	700	30
ERW 002	150	70	100.N	10	10.N	100.N	150	20	1000	30
ERW 003	5.L	20	100.N	5	10.N	100	70	30	200.N	300
ERW 004	5.L	15	100.N	7	10.N	100	100	70	200.N	300
ERW 005	5.L	15	100.N	5	10.N	100	100	50	200.L	200
ERW 006	5.L	20	100.N	10	10.N	100	150	50	200.N	300
ERW 007	150	10	100.N	5	10.N	100.N	70	20	1000	20
ERW 008	100	15	100.N	5.L	10.N	100.N	20	20	200.N	50
ERW 009	200	20	100.N	20	10.N	300	100	30	200.N	100

Table 3.--Continued

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
ERW 010	10	0.1	0.5	0.1	500	0.5.N	200.N	0.05.N	15	1000
ERW 011	7	.1	.05	.05	5000.G	.5.N	200.N	.05.N	15	200
ERW 012	1.5	.05	.05	.02	200	.5.N	200.N	.30	10	200
ERW 013	2	.05	.7	.15	200	.5.N	200.N	.05.N	50	1000
ERW 014	20	.03	1	.05	2000	.5.N	200.N	.20	20	1000
ERW 015	15	.03	1	.05	200	.5.N	200.N	.05.N	20	700
ERW 016	7	.07	2	.1	30	.5.N	200.N	.05.N	200	1000

Table 3.--Continued

Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
ERW 010	2	10.N	20.N	5.N	10.N	7	.02.L	100	5	20.L
ERW 011	1.5	10.N	20.N	70	10.L	100	.02.N	20.N	5.N	20.N
ERW 012	1.L	10.N	20.N	5.L	10.L	5	.02.L	20.N	5.L	20.N
ERW 013	1.5	10.N	20.N	5.N	10.N	5	.14	70	5.L	20.N
ERW 014	5	10.N	20.N	5.N	10.N	7	.65	50	30	20.N
ERW 015	2	10.N	20.N	5.N	10.N	7	.75	50	15	20.N
ERW 016	1	10.N	20.N	5.N	10.N	5	.02	50	10	20.N

Table 3--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
ERW 010	5.N	20	100.N	10	10.N	150	15	100	200.N	300
ERW 011	150	10.L	100.N	5	10.N	100.N	70	70	1000	10.L
ERW 012	10	10.N	100.N	5.L	10.N	100.N	30	15	200.N	10
ERW 013	5.N	20	100.N	7	10.N	150	10	50	200.N	500
ERW 014	5.N	15	100.N	5.L	10.N	100.L	10.L	20	200	100
ERW 015	5.L	20	100	5.L	10.N	100.N	50	20	200	100
ERW 016	5.N	20	100.N	5	10.N	100.L	10.L	50	200.N	200

Table 4.--Analyses of stream-sediment (silt) samples

Tag No.	Fe%	Mg%	Ca%	Ti%	Mn	Ag	As	Au	B	Ba
ERV914	3	0.7	0.7	0.5	1000	0.5.N	200.N	0.05.N	50	700
ERV915	3	.7	1.5	.5	500	.5.N	200.N	.05.N	30	1000
ERV916	2	.5	1	.2	300	.5.N	200.N	.05.N	50	700
ERV917	2	.7	1.5	.3	500	.5.N	200.N	.05.N	30	700
ERV918	2	.5	1	.2	500	.5.N	200.N	.05.N	30	700
ERV919	3	1	2	1.0.G	700	.5.N	200.N	.05.N	20	700
ERV920	5	2	2	1.0.G	700	.5.N	200.N	.05.N	20	700
ERV921	5	.7	.7	.2	1000	.5.L	200.N	.05.N	50	2000
ERV922	2	.5	.7	.15	700	.5.N	200.N	.05.N	30	700
ERV923	3	1.5	1	.3	700	.5.N	200.N	.05.N	30	500
ERV924	3	2	1	.2	500	.5.N	200.N	.05.N	50	500
ERV925	5	2	1.5	1	700	.5.N	200.N	.05.N	70	700
ERV926	2	1	1.5	.15	500	.5.N	200.N	.05.N	30	500
ERV927	3	1	.7	.2	1000	.5.N	200.N	.15	50	500
ERV928	3	1.5	1	.2	1000	.5.L	200.N.	.05.N	30	500
ERV929	3	1.5	1	.3	500	.5.N	200.N	.05.N	100	700
ERV930	2	1	3	.2	700	.5.N	200.N	.05.N	100	700
ERV931	3	.5	1	.15	5000.G	1.5	200.N	.05	100	700
ERV932	7	.2	.1	.1	200	.5	200.N	.05.N	30	300
ERV933	2	.7	1	.2	1000	.5	200.N	.05.N	50	700
ERV934	2	.5	1	.15	5000.G	.5.N	200.N	.05.N	50	700
ERV935	1.5	.15	1	.15	300	.5.N	200.N	.10	50	1000
ERV936	2	.5	1	.15	500	.5.N	200.N	.05.N	70	700
ERV937	1.5	.2	1	.1	300	.5.N	200.N	.05.N	50	700
ERV938	1.5	.3	1	.15	300	.5.N	200.N	.05.N	50	700
ERV939	2	.5	1	.2	500	.5.N	200.N	.05.N	50	700
ERV940	2	.5	1	.2	500	.5.N	200.N	.05.N	50	700
ERV941	2	.7	1	.2	300	.5.N	200.N	.05.N	50	700
ERV942	1.5	.5	1	.2	300	.5.N	200.N	.05.N	50	700
ERV943	2	.7	1	.2	300	.5.N	200.N	.40	50	700
ERV944	1.5	.7	.7	.1	500	.5.N	200.N	.05.N	50	700
ERV945	2	.3	1	.15	500	.5.N	200.N	.05.N	50	700
ERV946	1.5	.3	1	.2	200	.5.N	200.N	.05.N	50	700
ERV947	2	.3	.7	.15	1000	.5.L	200.N	.05.N	50	1000
ERV948	1.5	.7	1	.15	500	.5.N	200.N	.05.N	50	700
ERV949	2	.5	.7	.15	500	.5.N	200.N	.05.N	50	700
ERV950	2	.7	.7	.2	500	.5.N	200.N	.35	50	700
ERV951	3	1	.7	.5	500	.5.N	200.N	.05.N	50	500

Table 4.--Continued

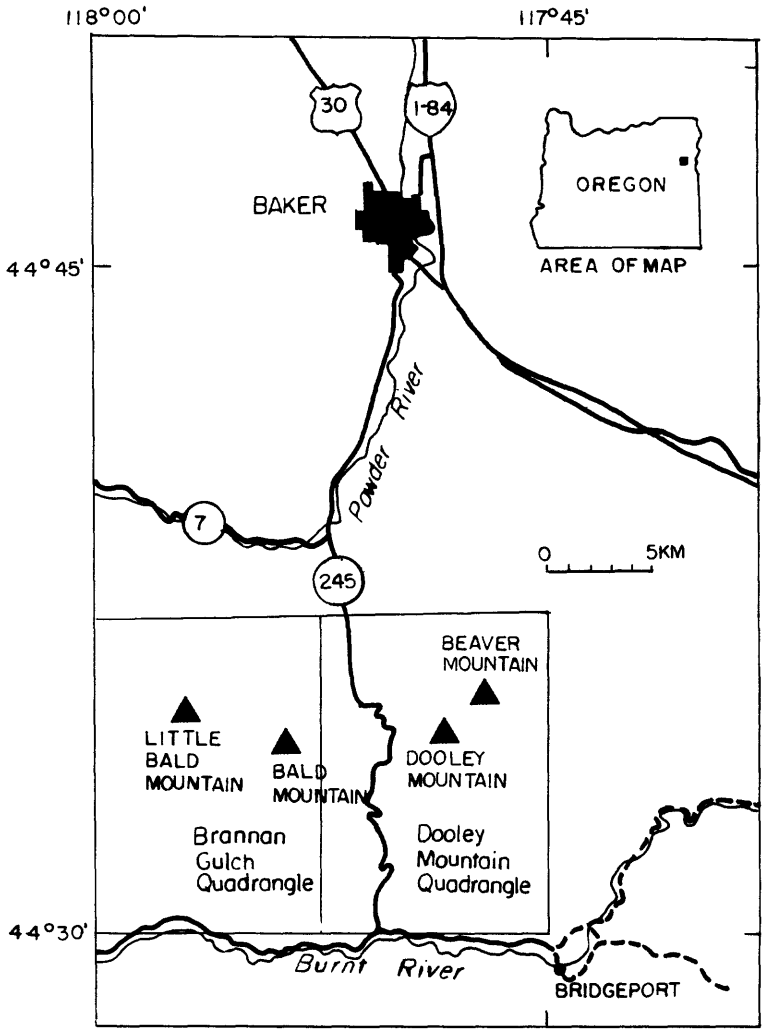
Tag No.	Be	Bi	Cd	Co	Cr	Cu	Hg	La	Mo	Nb
ERV914	2	10.N	20.N	10	50	15	0.24	70	5.N	20.L
ERV915	1.5	10.N	20.N	7	10	5	.35	50	5.N	20.L
ERV916	1	10.N	20.N	5	10	5	.02	30	5.N	20.N
ERV917	1.5	10.N	20.N	5	10	5	.02.L	50	5.N	20.L
ERV918	2	10.N	20.N	5	10	10	.06	50	5.N	20.L
ERV919	1.5	10.N	20.N	15	200	15	.06	70	5.N	20.N
ERV920	1	10.N	20.N	15	100	10	.02.L	50	5.N	20.L
ERV921	2	10.N	20.N	7	10	10	.02.L	150	5.L	20.N
ERV922	1	10.N	20.N	5	15	20	.45	150	5.N	20.N
ERV923	1.5	10.N	20.N	15	100	15	.22	50	5.N	20.N
ERV924	1.L	10.N	20.N	15	500	20	.04	30	5.N	20.N
ERV925	1.L	10.N	20.N	30	700	30	.02	70	5.N	20.L
ERV926	1	10.N	20.N	7	20	5	.02	20.L	5.N	20.N
ERV927	3	10.N	20.N	7	50	7	.02.N	50	5.L	20.L
ERV928	1.5	10.N	20.N	10	30	15	.04	100	5.N	20.N
ERV929	1	10.N	20.N	15	200	20	.20	70	5.N	20.N
ERV930	1.5	10.N	20.N	7	50	7	.06	50	5.N	20.N
ERV931	5	10.N	20.N	7	30	30	.02	500	5	20.N
ERV932	1	10.N	20.N	5.L	10	15	.38	50	10	20.N
ERV933	1.5	10.N	20.N	10	10	30	.45	200	5	20.L
ERV934	3	10.N	20.N	7	10	10	.50	150	5.N	20.N
ERV935	1.5	10.N	20.N	5	10.L	5	.16	70	5.L	20.N
ERV936	1.5	10.N	20.N	10	30	10	.16	70	5.N	20.N
ERV937	1.5	10.N	20.N	5	10	5	.02.L	50	5.N	20.N
ERV938	1.5	10.N	20.N	5	10.L	5	.02.L	50	5.N	20.L
ERV939	1	10.N	20.N	7	15	15	.04	50	5.N	20.L
ERV940	2	10.N	20.N	7	10	7	.04	70	5.N	20.N
ERV941	1.5	10.N	20.N	7	100	10	.02.N	50	5.N	20.N
ERV942	1.5	10.N	20.N	7	20	7	.02	50	5.N	20.N
ERV943	1.5	10.N	20.N	7	100	15	.04	70	5.N	20.L
ERV944	1	10.N	20.N	7	70	10	.02	50	5.N	20.N
ERV945	1.5	10.N	20.N	7	15	15	.02	70	5.N	20.N
ERV946	1	10.N	20.N	5	10	5.L	.02	50	5.N	20.N
ERV947	3	10.N	20.N	10	20	15	.26	150	5.L	20.N
ERV948	1	10.N	20.N	7	15	10	.02	50	5.L	20.N
ERV949	1	10.N	20.N	7	15	10	.02.L	50	5.L	20.L
ERV950	1.5	10.N	20.N	7	30	10	.02.N	50	5.N	20.L
ERV951	1.L	10.N	20.N	15	100	20	.02.L	30	5.N	20.L

Table 4--Continued

Tag No.	Ni	Pb	Sb	Sc	Sn	Sr	V	Y	Zn	Zr
ERV914	30	20	100.N	15	10.N	150	70	70	200	300
ERV915	10	30	100.N	10	10.N	300	50	30	200.N	150
ERV916	7	20	100.N	10	10.N	200	30	20	200.N	100
ERV917	10	30	100.N	15	300	300	50	30	200.N	150
ERV918	7	20	100.N	10	10.N	200	50	70	200.N	150
ERV919	20	20	100.N	20	10.N	300	200	50	200.N	150
ERV920	30	20	100.N	20	10.N	500	150	50	200.N	200
ERV921	7	20	100.N	10	10.N	200	30	100	200	200
ERV922	5	50	100.N	10	10.N	200	30	100	200.N	100
ERV923	50	20	100.N	15	10.N	300	150	100	200	70
ERV924	150	15	100.N	15	10.N	300	150	70	200.N	70
ERV925	150	20	100.N	20	10.N	500	200	20	200.N	100
ERV926	15	15	100.N	10	10.N	300	70	20	200.N	70
ERV927	15	20	100.N	10	10.N	200	50	30	200	100
ERV928	20	20	100.N	15	10.N	200	100	70	300	70
ERV929	50	20	100.N	15	10.N	200	70	50	200.L	100
ERV930	7	20	100.N	15	10.N	500	70	50	200.N	100
ERV931	20	50	100.N	15	10.N	150	50	300	700	200
ERV932	5.L	15	100.N	7	10.N	100.L	20	30	200	100
ERV933	15	30	100.N	15	10.N	200	70	150	200	200
ERV934	7	20	100.N	10	10.N	150	30	100	500	100
ERV935	5	20	100.N	7	10.N	150	30	50	200.N	150
ERV936	20	20	100.N	10	10.N	150	50	50	200.L	100
ERV937	7	20	100.N	7	10.N	150	15	30	200.N	100
ERV938	5	20	100.N	7	10.N	150	30	50	200.N	300
ERV939	7	20	100.N	10	10.N	200	50	70	200.N	300
ERV940	5	20	100.N	10	10.N	200	50	70	200.N	200
ERV941	15	15	100.N	10	10.N	150	70	30	200.N	150
ERV942	7	20	100.N	10	10.N	200	30	50	200.N	200
ERV943	15	20	100.N	10	10.N	150	50	50	200.N	200
ERV944	30	15	100.N	7	10.N	150	30	30	200.N	100
ERV945	10	20	100.N	10	10.N	150	30	50	200.N	150
ERV946	5.L	15	100.N	10	10.N	200	30	30	200.N	150
ERV947	7	30	100.N	10	10.N	200	30	200	300	150
ERV948	10	20	100.N	10	10.N	200	30	50	200.N	150
ERV949	5	30	100.N	7	10.N	150	30	50	200.N	150
ERV950	20	20	100.N	10	10.N	150	70	50	200.N	200
ERV951	20	20	100.N	10	10.N	150	100	30	200.N	200

TABLE 5
Gold analyses of pan-concentrate samples

Sample	Au in ppm	Sample wt. in grams
ERV835	14.0	0.1095
ERV836	12.0.N	0.0414
ERV837	830.0.N	0.0006
ERV838	3.7.N	0.1319
ERV839	14.0.N	0.0349
ERV840	1.8.N	0.2838
ERV841	9.1.N	0.0549
ERV842	0.3.N	1.6945
ERV843	2600.0	0.4493
ERV844	22.0	0.1008
ERV845	6.4	0.0779
ERV846	18.0	0.1495
ERV847	34.0	0.103F
ERV848	27.0	0.1004
ERV849	5.2.N	0.0962
ERV850	7.5.N	0.0665
ERV851	8.7.N	0.0572
ERV852	22.0.N	0.0228
ERV853	4.2.N	0.1189
ERV854	9.4.N	0.0532
ERV855	17.0.N	0.0291
ERV856	970.0	0.2151
ERV857	41.0	0.0777
ERV858	96.0.N	0.0052
ERV859	61.0	0.0328
ERV860	7.6.N	0.0661
ERV861	12.0.N	0.0404
ERV862	31.0.N	0.0163
ERV863	16.0.N	0.0314
ERV864	12.0.N	0.0433
ERV865	3.7.N	0.1361
ERV866	2.5.N	0.1975
ERV867	2.7.N	0.1850


118°00'
117°45'
30
I-84
BAKER
OREGON
AREA OF MAP
44°45'
Powder River
7
0 5KM
245
BEAVER MOUNTAIN
LITTLE BALD MOUNTAIN
BALD MOUNTAIN
DOOLEY MOUNTAIN
Brannan Gulch Quadrangle
Dooley Mountain Quadrangle
44°30'
Burnt River
BRIDGEPORT

Index map

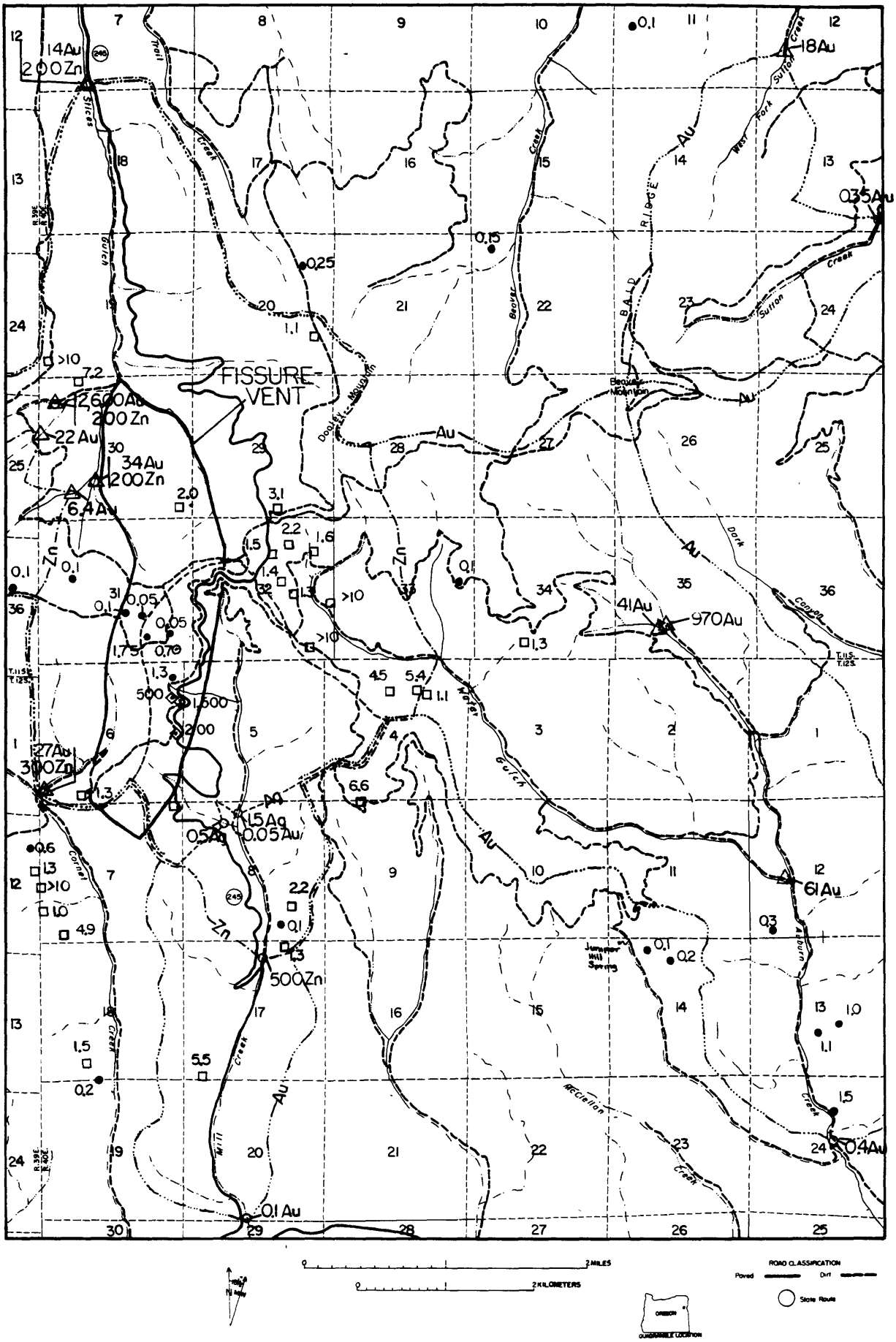


Figure 1. Map of Dooley Mountain quadrangle showing locations of fissure-vent, anomalous areas (gold, silver, zinc), and stream-sediment, panned-concentrate, and rock samples containing anomalous concentrations of gold, silver, arsenic, and mercury.

EXPLANATION

——— Paved roads

– – – – – Dirt roads

▬▬▬ Boundary of fissure-vent

Boundaries of anomolies

—·····— Gold (Au)

– – – – – Silver (Ag)

—·—·—·— Zinc (Zn)

Stream-sediment and panned-concentrate samples containing anomalous concentrations

△ Panned concentrate (gold)

○ Stream sediment (gold, silver, and zinc)

⧋ Stream sediment and panned concentrate

Rock samples containing anomalous concentrations

● Gold

⊙ Silver

◈ Arsenic

□ Mercury