U.S DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Geochemical Analyses of Ore and Host Rocks, Sleeper Gold-Silver Deposit, Humboldt County, Nevada

by

J.T. Nash,* D.L. Fey,* J.M. Motooka,* and D.F. Siems*

Open-File Report 90-702A (Paper copy)
90-702B (Diskette)

*U.S. Geological Survey, DFC, Box 25046, MS 973, Denver, CO 80225

1990

CONTENTS

ILLUSTRATIONS

TABLES

INTRODUCTION

Geochemistry has been important in the discovery, evaluation, and understanding of the Sleeper gold-silver deposit. We report here the analytical results for more than 50 constituents in 386 rock samples. Many of the constituents have been determined by more than one method. These geochemical data should be of value to many geologists concerned with the genesis of, and exploration for, precious metal deposits.

Geologic and geochemical information from thousands of drill holes and from open pit exposures has aided in the geologic understanding of rocks and ores at the Sleeper mine, but intense alteration of several types and paucity of natural bedrock outcrops continue to hamper mapping of important geologic relations needed to establish the stratigraphy and origin of many volcanic units. The geologic framework of samples described here probably will evolve in the next few years, but the chemical results reported here are reliable and not subject to revision. Geographic information on sample locations is accurate to less than 5 ft for most sites and should be reliable for users to examine for themselves aspects such as geochemical zonation.

The gold-silver ore deposit at the Sleeper mine has attracted great interest because of very high-grade veins that contain spectacular banded gold specimens, the large amount of contained gold (>2.5 million ounces), and for its discovery beneath Quaternary alluvial cover (Wood, 1988; Nash and others, 1989). The gold-silver deposits are of the quartz-adularia type, emplaced in a local Miocene volcanic complex south of the McDermitt Volcanic field (Nash, and others, 1989).

GEOLOGIC SETTING

The oldest rocks in the area (fig. 1) are Triassic and Jurassic(?), dark, fine-grained slate, phyllite, quartzite, and calcareous phyllite of the Auld Lang Syne Group (Willden, 1964; Burke and Silberling, 1973). These miogeoclinal sedimentary rocks were folded, faulted, and regionally metamorphosed to greenschist facies during the Mesozoic. A large granodiorite and monzonite stock intruded the metasedimentary rocks during the Cretaceous and occupies the central part of the Slumbering Hills (Willden, 1964). Tertiary volcanic rocks unconformably overlie the Mesozoic rocks, chiefly in the northern part of the range. Most of the volcanic rocks are outflow facies of the McDermitt Volcanic field and its nested calderas about 55 km to the north (Rytuba and McKee, 1984). Large volumes of peralkaline ash-flow tuffs were erupted from the McDermitt calderas from 16 to 15 Ma. A local volcanic complex also is present and was important in localizing the Sleeper deposit.

Local Geology

The low hills east of the mine are underlain chiefly by Triassic and Jurassic(?) slate, phyllite, and calcareous phyllite. Much of this basement has subdued topography and is mantled by a foot or more of Quaternary aeolian sand that greatly hampers geologic mapping. Tertiary volcanic rocks overlie and intrude the metasedimentary

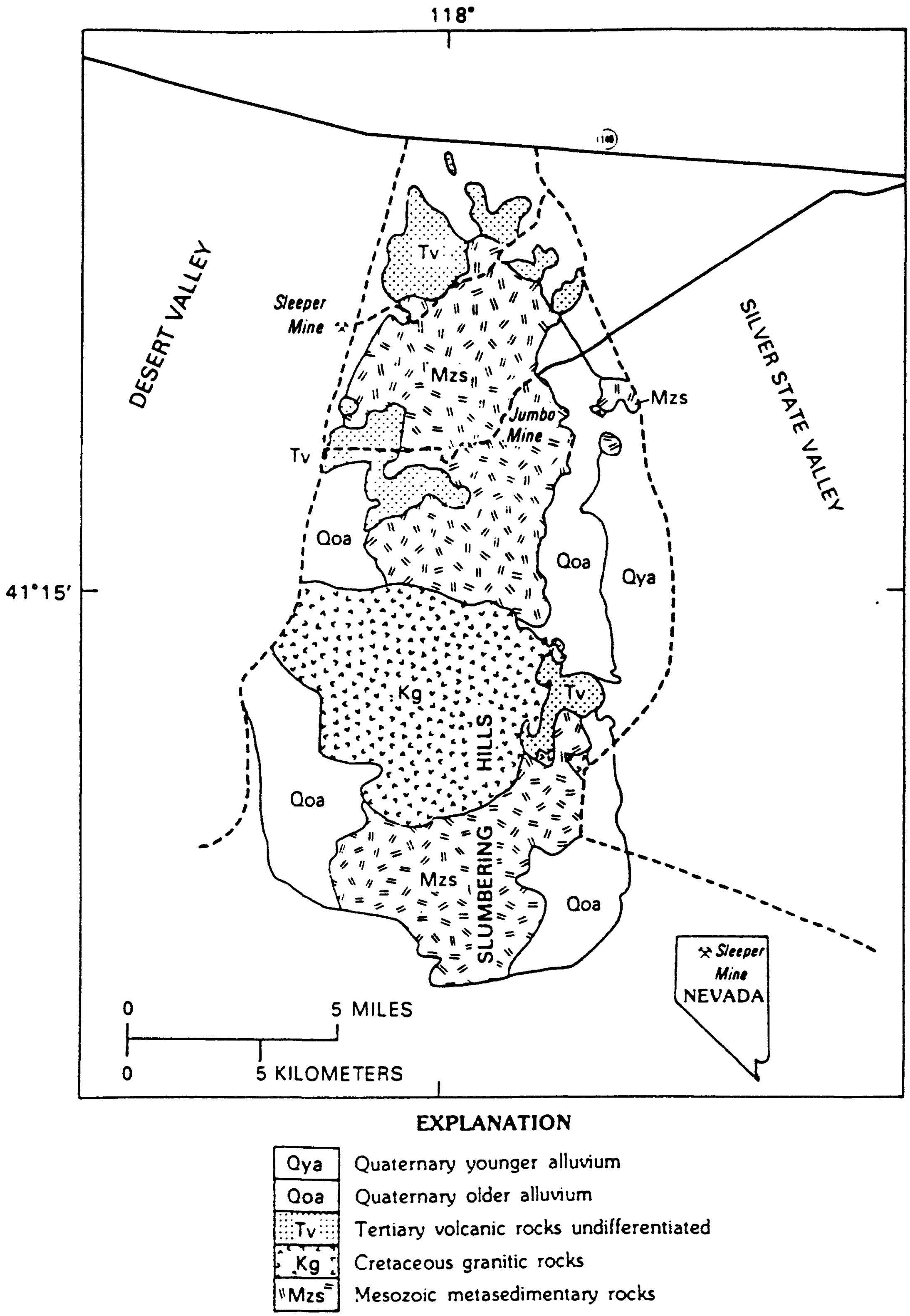

Figure 1. Map showing location and geologic setting of the Sleeper mine, Humboldt County, Nevada.

basement. The Tertiary section includes an older (Miocene) sequence of intermediate-composition lavas and andesitic welded tuffs, overlain by ryholitic peralkaline welded tuffs of the McDermitt volcanic field (Nash and othgers, 1989). Rhyolite porphyry dikes, domes, and flows of a local volcanic complex are exposed on many hilltops east of the mine and comprise most of the rock exposed in the pits; the age of this unit relative to the peralkaline welded tuffs is ambiguous and will be resolved by K/Ar dating in progress. These rocks have distinctive coarse stubby plagioclase and sanidine phenocrysts, smaller resorbed quartz eyes and sparse biotite phenocrysts. The aphanitic matrix is generally altered, but local zones having glassy matrix have been intercepted in drill holes 300-500 m west of the pits. Dark, aphanitic basalt dikes and flows make up the youngest unit.

Alluvial deposits cover the Sleeper gold deposit and also mantle most of the foothills to the east. Older alluvial fan deposits in the hills are truncated by a scarp at elevations of 1320-1340 m that probably is a wave-cut surface from Pleistocene Lake Lahontan (Willden, 1964). The lower valley floor is underlain by younger alluvium that includes a variety of unconsolidated coarse alluvial gravel and well-bedded, fine-grained lacustrine sand and clay. Approximately 20-50 m of alluvium covers the Sleeper orebody.

Mine Geology

The Sleeper and Wood pits expose two highly fractured and altered Tertiary volcanic units that are disconformably overlain by Pleistocene gravel and sand (fig. 2). The major Tertiary unit is rhyolite porphyry, very similar to several bodies exposed 1-2 km to the east. Dikes of rhyolite porphyry occur in the Sleeper pit and in drill core. Much of the subsurface east, south, and west of the Wood pit is rhyolite porphyry; the known lateral extent is more than 2,100 m N-S by 1,500 m E-W, and 350 m vertically. The geometry and most primary fabrics of the rhyolite suggest it is chiefly flows.

The other Tertiary unit, exposed only in the east wall of the Sleeper pit, comprises a variety of layered volcanic rocks of intermediate composition. These probably were flows, flowbreccias, air-fall tuffs, and lapilli tuffs from nearby vents. Compositions have been changed substantially by hydrothermal alteration but probably were chiefly andesitic to dacitic. Dikes of rhyolite porphyry intrude the dacite flows and tuffs. Beds and compositional layering in dacite flows and tuffs strike north-south to N 40° W and dip about 70° E.

The rhyolite porphyry generally has massive fabric and uniform primary texture, although alteration has dramatically changed its appearance and composition at most places. Flow foliation is visible at a few localities and in drill core, and some zones are vesicular. Phenocryst abundances are consistent across large areas, and compositional layering has been recognized only in weakly altered parts of a few drill cores. Plagioclase phenocrysts comprise about 20-25 percent, sanidine 5 percent, and quartz 3-5 percent. Silicification in ore zones preserves primary textures, and does not modify the concentrations of rock-forming elements very much. Peripheral argillic alteration

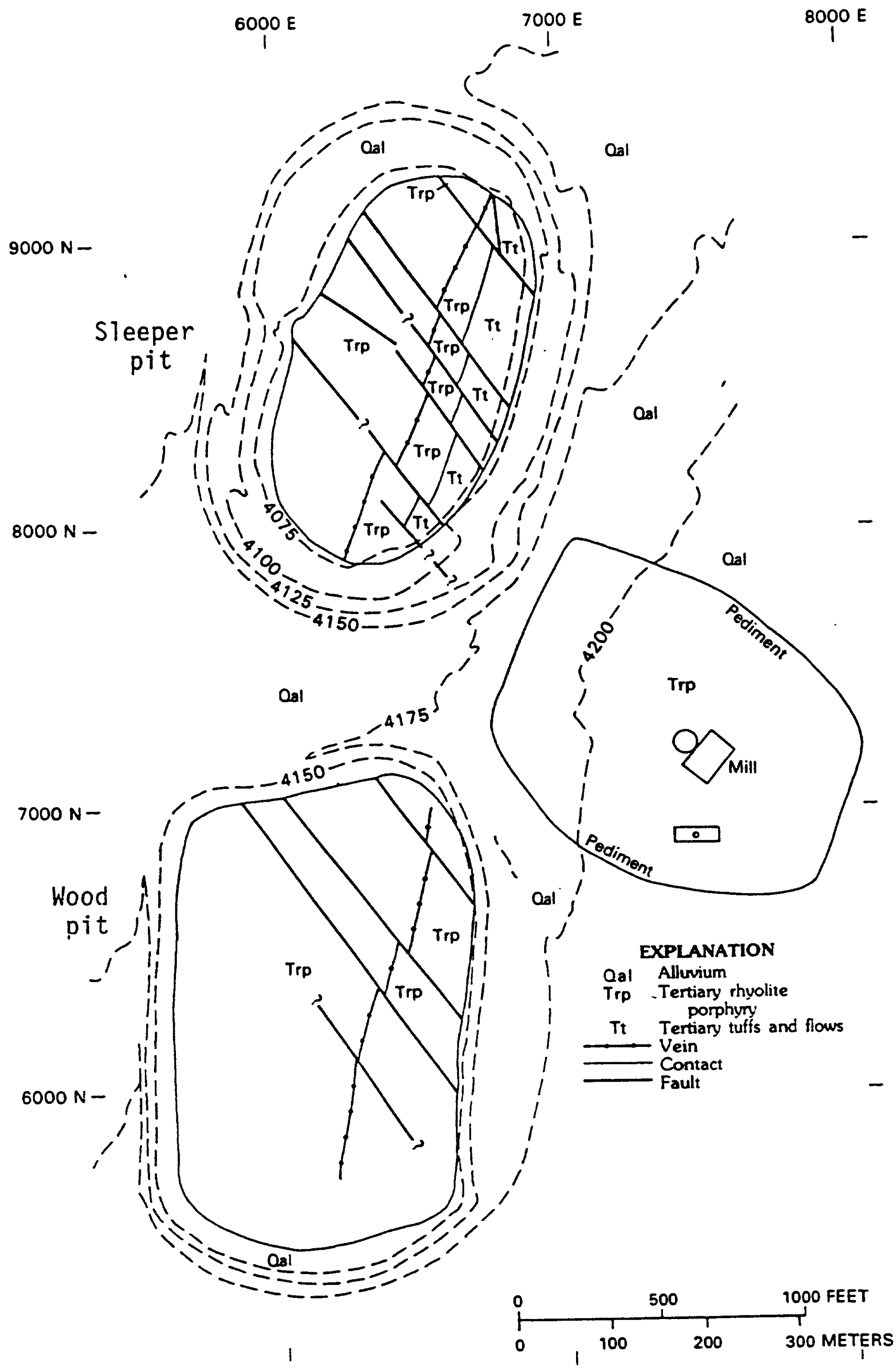

Figure 2. Generalized geology of the Sleeper mine.

produces crumbly rocks that appear to comprise a different unit, but phenocryst assemblages appear to be the same throughout and bulk compositions are not greatly changed.

Layered dacitic tuffs and flows exposed in the eastern wall of the Sleeper pit are mostly lapilli tuffs containing 20-50 percent, 1-3 cm-size, angular to rounded fragments of light-colored pumice or dark rock. The lapilli tuff is about 60-m thick in the southeastern wall of the Sleeper pit. Some very soft, clay-rich layers of possible air-fall tuff are interbedded with the lapilli tuff. Aphyric andesitic to basaltic flows are abundant below and east of the lappili tuff unit.

METHODS FOR GEOCHEMICAL ANALYSIS

Rock samples were analyzed by chemists of the U.S. Geological Survey using standard methods described below. For more information consult the references cited.

Sample preparation: All samples were crushed in a steel jaw crusher and pulverized to a minus 100 mesh grain size in a vertical grinder using ceramic plates.

X-ray fluorescence (XRF): A split of the sample weighing 0.8 g is fused with 8.0 g lithium tetraborate, and the glass disk obtained is analyzed for major elements by wavelength dispersive X-ray spectrometry (Taggart and others, 1988). The XRF method can not distinguish between ferric and ferrous iron; results for total iron are reported as ferric iron ("$FeTO_3$" in table 2). Limits of determination are shown in table 1.

Induction Coupled Plasma Atomic Emission Spectroscopy (ICP-AES): A split of the sample weighing 0.2 g is digested with mixed acids (HF, HCl-HNO_3, $HClO_4$) to dryness, then redissolved in HCl-HNO_3, then analyzed by inductively coupled plasma atomic emission spectroscopy using lutetium as an internal standard (Lichte and others, 1988). The lower limits of determination are shown in table 1. A few refractory minerals are not dissolved by this acid attack.

The wide dynamic range of the ICP-AES method permitted successful determination of elements in both the ore and barren wall rock samples collected in this study. The normal method of total sample dissolution in mixed acids seems to work well for most elements, but problems are suspected for a few elements such as Sn and Nb that reside in refractory oxide minerals.

ICP-AES-Partial Digestion Analysis: Digestion and preconcentration of 10 elements as organometallic halides prior to determination using ICP-AES provides improved lower limits of determination and a wide dynamic range that is appropriate for mineralized samples (Motooka, 1988). A 1-g portion of the sample is digested with concentrated HCl and H_2O_2, then ascorbic acid and potassium iodide are added to reduce interference from Fe and to form extractable iodide complexes of the metals to bedetermined. Silver, As, Au, Bi, Cd, Cu, Mo, Pb, Sb, and Zn are extracted with diisobutyl ketone (DIBK) and the metals in the organic phase are determined by ICP-AES. Limits of determination are shown in table 1.

Energy-dispersive X-ray fluorescence spectrometry (EDXRF): A suite of 12 trace elements is determined by EDXRF (table 3) (Johnson and King, 1988). The sample (1.0 g) is poured into a cell above a thin mylar window. Barium, La, and Ce are determined using gadolinium secondary X-radiation, Rb,Sr,Y, Zr, and Nb are determined with radiation from a silver target, and Ni, Cu, and Zn are determined with radiation from a germanium target. The lower limits of determination are shown in table 1. Accuracy is about ± 5 percent.

Selenium also was determined by EDXRF utilizing a semi-quantitative method developed for this study by D.F. Siems to accommodate altered rocks containing more Se than are readily treated by the hydride method. The sample is radiated by X-rays from a zirconium secondary target. Compton peak corrections are utilized to correct for diiferences in matrix composition (such as gold). The limit of determination is 10 ppm and the precision is 10 percent rsd.

Delayed Neutron Activation Analysis (DNAA): Sample (10 g) is irradiated in a nuclear reactor and induced nuclear transformations related to U and Th are determined 5 and 60 seconds after irradiation (McKown and Millard, 1987). The lower limit of determination is dependent on many compositional factors, but can be as low as 1 ppm Th and 0.1 ppm U.

Special Element Analysis. Additional constituents are analyzed using methods described by Jackson and others (1988), or as described below.

H_2O: Sample (1.0 g) is heated at 110° for one hour, and H_2O- is determined by weight loss. H_2O+ determined on 0.05-g sample heated with lead oxide and lead chromate with evolved water analyzed by coulometric Karl Fischer titration.

CO_2: Sample (0.5 g) is digested with perchloric acid, and the evolved carbon dioxide is collected in a coulometric cell where it is converted to an acid by ethanolamine. The acid is titrated automatically and the endpoint is determined colorimetrically.

S total: Sample (0.25 g) mixed with vanadium pentoxide and combusted at 1370 °C in oxygenated atmosphere; total S determined at SO_2 by infrared absorption spectroscopy.

Cl: The sample (0.2 g) is digested in a Conway diffusion cell with H_2SO_4, HF, and $KMnO_4$. Chlorine is distilled from the outer chamber and reduced to chloride in the inner chamber, where it is measured directly with a chloride ion sensitive electrode (ISE).

F: The sample (0.025 g) is fused with sodium hydroxide, then dissolved in water and the solution is buffered with ammmonium citrate. The fluoride is determined by ISE.

Au, Te, Tl: Sample (10 g) is digested with aqua regia and HF and the solution is evaporated and redissolved inHBr-Br_2. The metals of interest are extracted with methyl-isobutyl ketone (Hubbert and Chao, 1985). After washing the organic phase with 0.1M HBr to remove iron, Au, Te, and Tl are determined by flame atomic absorption spectroscopy (AAS). Limits of determination are shown in table 1.

Hg: Sample (0.1 g) is digested in HNO_3 and sodium dichromate and Hg determined by cold vapor AAS (Kennedy and Crock, 1987).

Se: Sample (0.3 g) is digested with $K_2S_2O_8$, HF, HNO_3, and $HCLO_4$ plus a second treatment by HNO_3 and $HCLO_4$ plus H_2SO_4. Solution is mixed with sodium borohydride and resultant metal hydride is carried in an argon stream into a heated quartz glass tube and determined by atomic absorption spectroscopy (Wilson and others, 1988).

W: Sample (1.0 g) is decomposed in HNO_3-HF and dissolved in HCl. Tungsten is determined by visible spectrophtometry using dithiol (Welsch, 1983).

DESCRIPTION OF DATA TABLES

Analytical results are in tables 2 to 6, grouped according to analytical methods. In all tables the sample number is coded as follows: CA 100s, Sleeper pit; CA1000s, Wood pit; CA2000s, outcrop samples from outside the mine; G83-520 or similar codes are for drill cuttings or core. Locations of samples from the mine are given in mine coordinates that can be related to figure 2 or plate 1. Locations of analyzed samples are plotted on map A of plate 1 (the mine area) and map B of plate 1 (the foothills east of the mine). Drill hole collar locations are plotted on map A of plate 1, but the actual drill sample sites are not shown.

Tables 2, 3, and 4 include coding for rock units and alteration ("altyp") as a guide to the character of the material analyzed. The following codes are used:

UNIT:

1	Rhyolite porphyry
2	Lapilli tuff
3	Intermediate flows and breccias
4	Other Teriary rocks
5	Veins and breccias
7	Leached and highly altered rocks

ALTYP (alteration type as determined in field):

First digit:

1 Silicified
2 argillized

3 kaolin-opal-alunite
4 smectite
5 sericite
7 acid-leached, sponge texture
9 relatively fresh

Second digit:
0 non-specific
1 pyrite-marcasite
2 iron oxides after sulfide minerals
3 late alunite-kaolin overprint
4 argillized (general)
9 glassy

Table 2 is a listing of results for major elements determined by XRF and various chemical methods in 168 rock samples. Information on oxidation state can not be determined from chemical information (most iron is **not** ferric, that is merely the way the total iron determination is reported). Ferrous iron (FeO) was not determined because that determination is influenced by the abundance of sulfide and becomes ambiguous. The best guide to oxidation state is in the second digit of the "altyp" coding: a 0 or a 1 indicate that the rock is reduced (pyritic), whereas a 2 or a 3 indicate oxidation (hematite, limonite, alunite).

Table 3 is a listing of results for major and minor elements determined by ICP-AES in 294 rock samples. No samples contained detectable amounts (cf. table 1) of Bi, Cd, Sn, or U. Some elements, such as B, Ta, W, and Zr, are not reported because they are not quantitatively taken into solution by the three acid digestion.

Table 4 is a listing of results for minor elements determined by ICP-AES and chemical methods in 186 samples. Note that the results, with headings of "../p ppm" are by partial digestion that utilizes DIBK to reduce the matrix effects of major elements including Fe.

Table 5 is a listing of results for trace elements determined by energy dispersive XRF in 92 samples of moderately to slightly altered rocks. These analyses are performed on solid rock powders, which avoids the complications of erratic dissolution of refractory minerals in methods that require a solution for analysis. These results are especially useful for determination of rock type and petrogenesis.

Table 6 is a listing of results for major and minor elements in 92 samples of highly mineralized drill cuttings. The analyzed sample is a split of cuttings from a 5-ft interval. All holes were drilled at an angle of about 60 to intersect the Sleeper vein at a high angle; the column "positn" (position) gives the approximate location of the bottom of the sampled interval relative to the vein: the vein is 0(feet), negative numbers are in the footwall, and positive numbers are in the hangingwall.

Table 7 is a summary of the ranges of elemental concentrations in 294 rock samples. Note that not all samples were analyzed by all methods, and that this summary mixes a broad range of rock and alteration types. The geometric mean values have no geologic significance.

ACKOWLEDGMENTS

This study was made possible by the cooperation of AMAX Gold, Inc. We thank Bill Utterback, Mark Bartlett, and Wayne Trudel, mine geologists at the Sleeper mine, for their help collecting samples. We also thank many chemists in the U.S. Geological Survey for their assistance with the chemical analyses.

REFERENCES CITED

Burke, D.B., and Silberling, N.J., 1973, The Auld Lang Syne Group, of Late Triassic and Jurassic(?) Age, north-central Nevada: U.S. Geological Survey Bulletin 1394-E, p. E1-E14.

Hubbert, A.E., and Chao, T.T., 1985, Determination of gold, indium, tellurium, and thallium ins the same sample digest of geological materials by atomic-absorption spectroscopy and two-step solvent extraction: Talanta, v. 32, p. 568-570.

Jackson, L.L., Brown, F.W., and Neil, S.T., 1988, Major and minor elements requiring individual determinations, classical whole rock analysis and rapid rock analysis, in, P.A. Baedecker, ed., Methods for geochemical analysis: U.S. Geological Survey Bulletin 1770, p. G1-G23.

Johnson, R.G., and King, B.-S.L., 1987, Energy dispersive X-ray fluorescence spectrometry, *in* Baedecker, P.A., ed., Methods for Geochemical Analysis, U.S. Geological Survey Bulletin 1770, p. F1-F5.

Kennedy, K.R., and Crock, J.G., 1987, Determination of mercury in geological materials by continuous flow, cold-vapor, atomic absorption spectrophotometry: Analytical Letters, v. 20, 899-908.

Lichte, F.E., Golightly, D.W., and Lamothe, P.J., 1987, Inductively coupled plasma-atomic emission spectrometry, *in* Baedecker, P.A., ed., Methods for Geochemical Analysis, U.S. Geological Survey Bulletin 1770, p. B1-B10.

McKown, D.M., and Millard, H.T. Jr., 1987, Determination of uranium and thorium by delayed neutron counting, *in* Baedecker, P.A., ed., Methods for Geochemical Analysis, U.S. Geological Survey Bulletin 1770, p. I1-I12.

Motooka, J.M., 1988, An exploration geochemical technique for the determination of preconcentrated organometallic halides by ICP-AES: Applied Spectroscopy, v. 42, p. 1293-1296.

Nash, J. Thomas, Utterback, W.C., and Saunders, J.A., 1989, Geology and geochemistry of the Sleeper gold-silver deposit, Humboldt County, Nevada--an interim report: U.S. Geological Survey Open-File Report 89-476, 39 p.

Rytuba, J.J., and McKee, E.H., 1984, Peralkaline ash flow tuffs and calderas of the McDermitt volcanic field, southeast Oregon and north central Nevada: Journal of Geophysical Research, v. 89, no. B10, p. 8616-8628.

Taggart, J.E., Jr., Lindsay, J.R., Scott, B.A., Vivit, D.V., Bartel, A.J., and Stewart, K.C., 1988, Analysis of geological materials by wave-length dispersive X-ray fluorescence spectroscopy, *in* P.A. Baedecker, ed., Methods for Geochemical Analysis: U.S. Geological Survey Bulletin 1770, p. E1-E19.

Welsch, E.P., 1983, A rapid geochemical spectrophotometric determination of tungsten with dithiol: Talanta, v. 30, p. 876-878.

Willden, Ronald, 1964, Geology and mineral deposits of Humboldt County, Nevada: Nevada Bureau of Mines and Geology Bulletin 59, 154 p.

Wilson, S.A., Kane, J.S., Crock, J.G., and Hatfield, D.B., 1988, Chemical methods of separation for optical emission, atomic absorption, and colorimetry, *in* P.A. Baedecker, ed., Methods for Geochemical Analysis: U.S. Geological Survey Bulletin 1770, p. D1-D14.

Wood, J.D., 1988, Geology of the Sleeper gold deposit, Humboldt County, Nevada, *in* R.W. Schafer, J.J. Cooper, and P.G. Vikre, eds, Bulk Mineable Precious Metal Deposits of the Western United States: Reno, Geological Society of Nevada, p. 293-302

Table 1. Lower limits of determination in geochemical analyses

Major elements[1] in weight percent			
SiO_2	0.10	TiO_2	0.02
Al_2O_3	0.10	P_2O_5	0.05
$FeTO_3$[2]	0.04	MnO	0.02
FeO	0.01	H_2O+	0.01
MgO	0.10	H_2O-	0.01
CaO	0.02	CO_2	0.01
Na_2O	0.15	S tot	0.01
K_2O	0.02		
Al (s)[1]	0.05	Na (s)	0.005
Fe (s)	0.05	K (s)	0.05
Mg (s)	0.005	Ti (s)	0.005
Ca (s)	0.05	P (s)	0.005

Minor elements in parts per million by ICP-AES (mixed acid digestion)			
Ag	2	Mn	4
As	10	Mo	2
Au	8	Nb	4
Ba	1	Nd	4
Be	1	Ni	2
Bi	10	Pb	4
Cd	2	Sc	2
Ce	4		
Co	1	Sn	10
Cr	1	Sr	2
Cu	1	Ta	40
Eu	2	Th	4
Ga	4	U	100
		V	2
Ho	4	Y	2
La	2	Yb	1
Li	2	Zn	2

Table 1. Lower limits of determination in geochemical analyses--Continued

Minor elements in parts per million by ICP-AES after partial digestion (p)			
Ag (p)	0.045	Cu (p)	0.030
As (p)	0.60	Mo (p)	0.090
Au (p)	0.15	Pb (p)	0.60
Bi (p)	0.60	Sb (p)	0.60
Cd (p)	0.030	Zn (p)	0.030
Minor elements in parts per million determined by other chemical methods			
Au	0.05		
Hg	0.02		
Se	0.01		
Te	0.10		
Tl	0.10		
W	1.0		
Trace elements determined by EDXRF (x)			
Ba (x)	5	Ni (x)	2
Ce (x)	5	Rb (x)	2
Cr (x)	20	Sr (x)	2
Cu (x)	2	Y (x)	2
La (x)	5	Zn (x)	2
Nb (x)	10	Zr (x)	5

[1] Major elements reported as oxides (e.g., SiO_2) determined by X-ray fluorescence; those with "(s)", determined by induction coupled plasma atomic emission spectrometry (ICP-AES).

[2] $FeTO_3$ is total iron reported as Fe_2O_3.

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS DETERMINED BY X-RAY FLUORESCENCE IN SAMPLES FROM THE SLEEPER MINE AREA, NEVADA

[N, not detected; <, detected but below the limit of determination shown; --, not determined]

Sample	SiO2 %	Al2O3 %	FeTO3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	LOI 900 C
CA 100	59.1	24.0	.80	.55	.62	1.24	2.19	1.02	.15	<.02	9.88
CA 101	69.5	11.3	4.88	.21	.14	<.15	7.70	.76	.15	<.02	4.46
CA 102	66.3	11.6	4.21	.36	.19	<.15	4.27	.23	.07	.04	11.6
CA 103	77.3	9.83	2.01	.21	.08	<.15	6.78	.60	.06	<.02	2.25
CA 104	81.9	6.52	2.16	.13	.1	<.15	3.37	.31	.17	<.02	4.43
CA 105	80.7	9.93	.44	.27	.13	<.15	4.36	.62	<.05	<.02	2.84
CA 106	79.5	8.41	2.31	.23	.17	<.15	4.26	.56	.21	<.02	3.87
CA 107	77.0	8.95	3.42	.22	.08	<.15	5.70	.56	.06	<.02	3.44
CA 108	79.4	7.89	2.21	.29	.19	<.15	4.19	.53	.36	<.02	4.09
CA 109	79.1	12.0	.50	.42	.20	<.15	.92	.89	.31	<.02	5.33
CA 110	78.2	8.57	2.20	.50	.10	<.15	2.18	.87	.20	<.02	6.45
CA 111	77.3	9.35	1.12	.36	.29	<.15	2.14	1.39	.54	<.02	6.40
CA 112	67.5	17.1	.82	.55	.39	.48	5.32	1.05	.20	<.02	6.20
CA 113	66.8	14.9	2.21	.44	.44	2.09	4.55	1.02	.22	<.02	6.74
CA 114	72.7	12.1	2.84	.26	.34	2.31	4.84	.71	.08	<.02	2.76
CA 116	74.	11.6	1.75	.12	.07	.26	7.80	.37	.05	<.02	2.84
CA 117	69.6	10.4	6.30	<.10	.15	.39	7.03	.51	.23	<.02	4.46
CA 118	82.6	7.87	1.11	.12	.06	<.15	5.77	.17	.06	<.02	1.25
CA 119	72.2	12.0	2.61	.27	.17	.16	7.45	.80	.18	<.02	3.47
CA 120	72.	12.1	2.92	.33	.16	<.15	5.32	.6	.15	<.02	5.04
CA 121	73.8	9.66	4.09	.19	.07	<.15	6.66	.59	.12	<.02	4.15
CA 122	67.2	14.20	3.72	.41	.16	<.15	4.52	.73	.14	<.02	8.02
CA 124	72.9	11.50	3.44	.20	.14	<.15	6.66	.57	.11	<.02	3.48
CA 125	71.7	10.90	4.08	.18	.13	<.15	6.92	.65	.23	<.02	4.06
CA 126	79.8	6.26	4.37	.23	.04	<.15	2.44	.43	.14	<.02	5.44
CA 127	68.2	9.38	8.06	.32	.12	<.15	3.72	.78	.21	<.02	8.24
CA 128	97.5	.35	.04	<.10	<.02	<.15	.03	.48	<.05	<.02	.60
CA 130	78.1	12.8	.79	.10	.06	<.15	.99	.57	.08	<.02	5.55
CA 131B	64.2	18.4	3.31	.79	.33	<.15	2.99	1.12	.50	<.02	7.45
CA 133	73.3	11.9	1.64	.20	.17	.22	7.93	.43	.19	<.02	3.38
CA 135	5.7	33.6	1.69	.13	.29	.41	9.44	.04	1.73	<.02	38.7
CA 136	83.8	6.91	2.23	<.10	.05	<.15	.78	<.02	.09	<.02	5.63
CA 139	70.	10.0	5.24	.25	.15	.17	5.81	1.13	.26	<.02	6.24
CA 141	69.3	11.1	4.60	.70	.22	<.15	4.35	.95	.36	<.02	7.35
CA 144	60.0	17.7	1.59	.43	.44	1.31	2.30	1.23	.60	<.02	13.5
CA 145	67.7	15.3	1.17	.98	.35	<.15	4.57	2.00	.27	<.02	6.90
CA 149	47.6	14.8	10.4	.60	.91	.37	4.11	.42	2.28	<.02	17.3
CA 150	74.2	11.8	.89	.27	.26	1.24	4.93	1.09	.29	<.02	4.33
CA 153	54.8	30.3	.88	.36	.12	<.15	1.39	.14	.07	<.02	11.6
CA 154A	74.5	10.6	2.90	<.10	.14	.75	6.79	.43	.08	<.02	2.79
CA 154B	74.6	11.6	1.45	<.10	.13	.73	7.57	.49	.09	<.02	2.76
CA 156	75.9	11.2	1.91	<.10	.13	.74	6.64	.43	.07	<.02	2.01
CA 157	74.9	12.4	1.27	.12	.28	1.25	5.22	.55	.18	<.02	2.85
CA 159	63.0	17.0	.72	.40	.36	1.30	7.50	.63	.15	<.02	7.82
CA 161	62.7	9.14	9.20	<.10	.08	.48	4.65	.44	.16	<.02	12.4

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA--Continued

Sample	H2O+ %	H2O- %	CO2 %	Cl %	F %	Total S%	Unit[1]	Altyp[2]
CA 100	--	--	--	<.01	.05	.23	2	14
CA 101	1.57	.37	<.01	<.01	.01	4.21	5	11
CA 102	--	--	--	.01	.04	2.44	7	33
CA 103	.80	.31	<.01	<.01	.01	1.21	5	11
CA 104	1.42	.29	<.01	<.01	.01	1.82	5	11
CA 105	--	--	--	<.01	.01	.08	2	23
CA 106	--	--	--	<.01	.01	.49	2	23
CA 107	1.19	.30	<.01	<.01	.01	2.02	5	11
CA 108	--	--	--	<.01	.03	.59	2	23
CA 109	--	--	--	<.01	.08	.09	2	23
CA 110	--	--	--	<.01	.06	1.11	2	23
CA 111	--	--	--	.01	.08	.71	2	23
CA 112	5.01	.12	<.01	<.01	.09	.12	3	20
CA 113	3.29	1.05	<.01	<.01	.09	.71	3	11
CA 114	1.30	.47	<.01	<.01	.02	.81	5	11
CA 116	1.09	.27	<.01	<.01	.01	1.42	1	90
CA 117	1.79	.24	<.01	<.01	.02	.94	2	22
CA 118	.55	.14	<.01	<.01	<.01	.78	5	11
CA 119	1.47	.37	<.01	<.01	.02	1.52	2	11
CA 120	--	--	--	<.01	.03	1.90	2	14
CA 121	1.17	.23	<.01	<.01	.01	2.98	2	11
CA 122	--	--	--	<.01	.06	4.44	2	14
CA 124	1.36	.33	<.01	<.01	.01	2.45	2	11
CA 125	1.56	.27	<.01	<.01	.02	2.97	5	11
CA 126	1.68	.17	<.01	<.01	.03	3.65	5	11
CA 127	--	--	--	--	--	--	2	13
CA 128	.49	<.05	<.01	<.01	<.01	<.05	7	73
CA 130	--	--	--	<.01	.06	.34	1	13
CA 131B	--	--	--	<.01	.13	2.22	3	23
CA 133	1.79	.19	.04	<.01	.02	<.05	1	13
CA 135	--	--	--	.04	.48	17.60	3	14
CA 136	2.78	.23	<.01	<.01	.01	.97	6	11
CA 139	1.88	.19	<.01	<.01	.11	5.85	2	11
CA 141	--	--	--	<.01	.09	1.03	2	14
CA 144	--	--	--	<.01	.09	2.90	3	24
CA 145	--	--	--	<.01	.17	.22	3	24
CA 149	--	--	--	<.01	.27	4.09	3	10
CA 150	--	--	--	<.01	.06	.56	3	10
CA 153	--	--	--	.02	.21	<.05	7	23
CA 154A	1.23	.09	<.01	<.01	.01	1.69	5	11
CA 154B	1.33	.10	<.01	<.01	.04	.46	2	11
CA 156	1.31	.10	<.01	<.01	.03	.19	5	11
CA 157	2.00	.32	<.01	<.01	.04	.16	1	90
CA 159	--	--	--	<.01	.16	1.49	1	11
CA 161	2.54	.77	<.01	<.01	.04	10.80	1	11

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA--Continued

Sample	SiO2 %	Al2O3 %	FeTO3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	LOI 900 C
CA 162	71.4	14.1	1.57	.11	.19	1.23	5.53	.56	.09	<.02	4.27
CA 163	71.7	14.0	1.15	.13	.18	.91	4.98	.53	.12	<.02	5.40
CA 165	45.7	23.4	11.0	.53	.31	.16	1.83	.40	.27	<.02	15.5
CA 166	68.3	16.5	.83	.15	.20	1.30	6.26	.60	.09	<.02	4.84
CA 169	71.2	12.6	.76	<.10	.11	.92	5.40	.60	<.05	<.02	7.47
CA 170	56.7	14.	2.09	.64	.34	.24	3.76	.38	.35	<.02	19.4
CA 172	68.4	16.0	1.05	.31	.21	.54	2.41	.59	.10	<.02	9.60
CA 179	59.0	26.7	.36	.56	.24	.16	.11	.60	.09	<.02	11.7
CA 181	69.4	14.4	1.48	.79	.56	1.41	5.47	.49	.07	<.02	5.34
CA 182	71.8	13.8	3.06	<.10	.23	1.34	3.84	.52	.11	<.02	4.62
CA 183	70.9	13.5	2.25	<.10	.40	1.58	4.16	.50	.13	<.02	5.66
CA 184	65.4	15.1	.88	.29	4.82	.79	3.10	.52	.06	<.02	7.88
CA 185	73.3	14.6	1.03	.11	.22	1.42	4.29	.61	<.05	<.02	3.45
CA 187	70.2	6.32	5.09	.11	.10	1.22	.91	.33	.07	<.02	13.5
CA 189	52.8	.28	20.7	.10	.06	<.15	3.84	.35	.40	<.02	17.7
CA 190	84.0	4.18	.13	<.10	.07	.20	1.07	.46	.08	<.02	8.16
CA 191	18.5	30.4	1.06	.11	.18	5.36	.36	.10	.40	<.02	36.9
CA 192	40.7	3.18	26.8	.11	.12	.64	3.54	.18	.36	<.02	21.4
CA 193	75.3	8.82	4.35	.21	.07	<.15	6.08	.49	.06	<.02	3.56
CA 194	71.4	11.7	3.75	.21	.11	<.15	7.14	.62	.10	<.02	4.37
CA 206	65.2	10.8	5.57	.27	.57	<.15	4.42	2.12	.80	<.02	9.29
CA 208	63.0	9.89	10.3	.43	.23	.29	5.12	1.97	.14	<.02	7.72
CA 209	80.3	7.34	3.43	.23	.18	.26	2.82	.36	.14	<.02	3.95
CA 211	70.5	9.81	4.76	.15	.21	.18	5.57	.97	.33	<.02	6.60
CA 216	66.2	13.7	1.02	.11	.20	.77	4.97	.56	.29	<.02	10.7
CA 217	76.5	10.2	2.49	<.10	.16	.77	7.23	.37	.06	<.02	1.04
CA 221	67.1	14.1	1.82	.10	.19	1.33	7.46	.55	.09	<.02	6.17
CA 223	70.4	15.6	.37	.16	.20	.99	5.34	.60	.08	<.02	5.47
CA 226	63.9	22.1	1.49	.47	.22	<.15	.13	.57	.09	<.02	10.2
CA 227	61.6	22.2	2.04	.77	.32	<.15	.10	.89	.07	<.02	11.5
CA 229	55.1	25.2	1.23	1.59	.61	<.15	.08	.80	.25	<.02	14.6
CA 230	29.3	26.7	.96	.11	.27	3.63	1.28	.27	.32	<.02	30.8
CA 309	71.0	12.1	3.49	.24	.08	.32	8.65	.39	.09	<.02	2.71
CA 310	73.3	11.2	2.62	.54	.33	.21	6.60	1.09	.18	<.02	3.16
CA 313	73.2	13.2	1.74	.13	.19	1.03	7.90	.51	.06	<.02	1.43
CA 314	71.1	13.7	1.53	.11	.09	.53	4.84	.53	.10	<.02	6.41
CA 315	57.0	18.3	3.66	.30	.22	.99	9.13	.53	.07	<.02	8.81
CA 319	70.2	12.3	1.22	.12	.09	.48	5.82	.45	.05	<.02	8.20
CA 324	24.0	29.1	3.28	.13	1.99	2.39	.57	.58	.53	<.02	33.7
CA 327	63.9	17.8	3.61	.36	1.97	2.93	3.51	1.02	.15	<.02	4.14
CA 328	69.5	14.8	1.43	.36	.49	3.56	5.09	.99	.11	<.02	2.80
CA 330	66.4	17.6	1.77	.65	.46	.49	4.74	1.08	.21	<.02	5.86
CA 331	66.2	18.1	1.05	.67	.29	.38	5.50	1.36	.13	<.02	5.40
CA 332	77.4	8.25	1.73	.27	.15	.19	4.52	1.15	.23	<.02	5.30
CA 342	73.6	11.7	2.58	.19	.13	.46	7.21	.39	.14	<.02	2.87

Sample	H2O+ %	H2O- %	CO2 %	Cl %	F %	Total S%	Unit	Altyp
CA 162	2.84	.36	<.01	<.01	.06	.30	1	14
CA 163	3.02	.56	<.01	<.01	.04	.56	1	90
CA 165	--	--	--	.01	.29	1.82	1	14
CA 166	--	--	--	<.01	.05	.44	1	10
CA 169	3.16	.35	<.01	<.01	.03	1.52	1	90
CA 170	--	--	--	.02	.11	6.18	1	14
CA 172	--	--	--	<.01	.12	1.13	1	23
CA 179	--	--	--	.04	.21	<.05	7	73
CA 181	--	--	--	<.01	.05	<.05	7	73
CA 182	2.95	.38	<.01	<.01	.06	1.29	1	11
CA 183	2.64	.38	<.01	<.01	.06	2.16	1	11
CA 184	--	--	--	<.01	.05	<.05	1	23
CA 185	2.78	.42	<.01	<.01	.03	<.05	1	90
CA 187	--	--	--	<.01	.05	4.78	1	23
CA 189	--	--	--	<.01	<.01	6.75	1	23
CA 190	--	--	--	.01	.01	1.56	1	23
CA 191	--	--	--	<.01	.23	15.80	7	73
CA 192	7.19	.45	<.01	.01	.07	8.28	7	73
CA 193	.85	.30	<.01	<.01	.06	4.30	2	11
CA 194	1.42	.34	<.01	<.01	.05	2.91	2	11
CA 206	4.01	.76	.02	<.01	.08	1.61	3	10
CA 208	1.32	.76	<.01	<.01	.08	9.94	3	11
CA 209	1.67	.30	<.01	<.01	.06	2.45	3	11
CA 211	2.08	.36	<.01	<.01	.07	4.50	3	11
CA 216	3.86	.42	<.01	<.01	.07	2.62	1	90
CA 217	.73	.09	<.01	<.01	.03	.16	1	11
CA 221	2.73	.26	<.01	<.01	.03	1.28	1	10
CA 223	--	--	--	<.01	.05	.53	1	23
CA 226	--	--	--	<.01	.21	<.05	1	23
CA 227	--	--	--	<.01	.25	<.05	1	23
CA 229	--	--	--	<.01	.53	<.05	1	23
CA 230	--	--	--	<.01	.11	13.30	1	23
CA 309	.68	.40	<.01	<.01	.01	2.35	1	11
CA 310	1.04	.90	<.01	<.01	.07	1.70	2	10
CA 313	1.17	.16	<.01	<.01	.01	.07	1	11
CA 314	3.52	.54	<.01	<.01	.03	.96	1	10
CA 315	3.02	1.44	<.01	<.01	.07	2.02	1	20
CA 319	3.19	.43	<.01	.05	.03	1.92	1	11
CA 324	10.70	.52	<.01	.02	.27	12.80	7	30
CA 327	2.29	1.50	<.01	<.01	.11	<.05	3	20
CA 328	1.20	.75	<.01	<.01	.04	.29	3	10
CA 330	3.45	1.74	<.01	<.01	.08	.15	3	20
CA 331	3.28	1.36	<.01	<.01	.10	.25	3	20
CA 332	2.10	.49	<.01	<.01	.04	1.07	2	20
CA 342	1.24	.23	<.01	<.01	.03	1.90	1	10

Sample	SiO2 %	Al2O3 %	FeTO3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	LOI 900 C
CA1021	89.5	2.93	.14	.12	.33	<.15	.70	.50	<.05	<.02	4.16
CA1022	93.5	.59	.22	.12	1.15	<.15	.09	.49	<.05	<.02	1.60
CA1028	67.0	15.9	.95	.11	.05	<.15	1.96	.57	.08	<.02	12.6
CA1096	96.1	.33	.04	.15	.04	<.15	.02	.41	<.05	<.02	1.52
CA2010	69.0	13.7	4.32	.33	.93	4.22	5.01	.59	.14	.05	1.03
CA2012	67.2	15.0	2.78	.41	2.83	3.49	4.15	1.28	.46	<.02	1.77
CA2014	69.3	13.6	4.16	.35	.92	4.18	5.05	.59	.14	.05	1.09
CA2015	72.4	11.2	3.17	.19	.51	3.55	5.28	.27	<.05	.06	2.83
CA2017	68.1	13.7	3.28	.42	1.37	3.91	4.72	.57	.13	.09	3.31
CA2020	77.7	11.9	.66	.36	.18	<.15	5.91	.32	<.05	<.02	2.17
CA2021	49.5	13.8	12.7	3.36	8.62	2.63	1.46	2.24	.46	.15	4.81
CA2030	70.6	13.4	3.62	.26	2.03	3.31	4.73	.41	.16	.04	.86
CA2031	73.8	11.4	3.40	.27	1.66	2.80	3.86	.39	.16	.03	1.55
CA2034	95.2	1.77	.56	.13	.11	<.15	.15	<.02	.05	.03	1.28
CA2035	87.8	4.77	2.41	.51	.20	<.15	1.00	.21	.08	<.02	2.39
CA2036	75.5	13.1	.35	.51	.29	<.15	4.68	.51	.14	<.02	3.76
CA2037	95.0	2.13	.30	.19	.10	<.15	.95	<.02	<.05	.02	.75
CA2040	90.5	3.35	1.30	.25	.34	<.15	.88	.35	.06	<.02	2.21
CA2041	92.8	1.24	1.95	.11	.11	<.15	.44	.16	.06	<.02	2.59
CA2042	61.2	6.31	22.3	.55	.38	<.15	1.46	1.69	.27	<.02	5.48
CA2043	70.9	9.30	4.34	.58	.43	<.15	2.74	2.44	.12	<.02	8.10
CA2044	84.3	3.56	.47	.21	.51	.27	.48	3.71	.78	<.02	5.06
CA2045	64.8	11.9	1.41	.16	.34	.53	2.52	.70	.50	<.02	15.1
CA2051	69.8	13.8	2.90	.36	1.65	3.42	5.10	.36	.13	.04	1.83
CA2052	64.7	14.9	5.77	.35	3.08	3.73	3.95	1.12	.46	.05	1.34
CA2053	69.4	14.6	3.14	.18	1.98	3.66	4.84	.54	.22	.08	.71
CA2056	70.2	13.6	4.03	.30	1.92	3.43	4.58	.48	.19	.04	.71
1126600A	56.3	16.8	8.94	.95	3.60	2.09	1.15	1.00	.26	.48	7.78
1126600F	67.5	14.9	2.51	.33	2.08	2.80	4.18	.53	.18	.03	4.14
702-265A	64.3	15.1	4.40	1.27	2.03	1.46	1.40	.47	.05	<.02	8.65
702-265F	66.0	15.5	2.93	.61	2.04	2.61	3.36	.51	.11	<.02	5.87
925-195F	68.3	14.1	2.32	.26	1.80	3.24	4.26	.45	.14	.02	4.27
925-295F	68.3	14.3	2.46	.38	1.95	2.90	3.43	.48	.15	.03	4.94
983-415	71.3	13.7	2.94	.21	1.53	3.35	4.98	.40	.16	<.02	.85
983-545	70.5	13.8	3.50	.18	1.64	3.39	4.87	.44	.18	.04	.9
CA1102	73.8	12.0	.85	.31	.19	.61	5.16	.41	.09	<.02	5.65
CA1104	68.2	14.8	2.00	.92	.58	1.07	3.99	.48	.10	<.02	7.38
CA1109	50.2	16.6	1.84	<.10	.09	.78	4.09	.36	.24	<.02	20.5
CA1112	71.1	14.9	.96	.38	.28	1.00	4.25	.55	.06	<.02	5.71
CA1114	59.2	14.8	8.56	.14	.19	.58	3.51	.48	.15	<.02	11.8
CA1116	66.3	13.1	3.22	.73	.57	1.37	4.72	.47	.14	<.02	8.54
CA1119	63.1	13.1	2.33	.50	3.05	.88	3.74	.45	.09	<.02	9.43
CA1120	65.4	13.5	2.52	.35	.56	1.31	7.02	.71	.85	<.02	6.87
CA1122	57.8	12.1	.76	.62	8.75	.68	3.11	.42	.16	<.02	12.1
CA1123	67.7	14.7	1.54	.65	.86	1.52	4.74	.50	.30	<.02	6.63

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA--Continued

Sample	H2O+ %	H2O- %	CO2 %	Cl %	F %	Total S%	Unit	Altyp
CA1021	--	--	--	<.01	.01	.76	1	23
CA1022	--	--	--	<.01	<.01	<.05	1	23
CA1028	--	--	--	<.01	.02	2.60	1	20
CA1096	.87	.42	<.01	<.01	<.01	<.05	1	30
CA2010	.41	.30	.05	<.01	.02	<.05	4	90
CA2012	.66	.64	.02	<.01	.05	<.05	4	90
CA2014	.48	.24	<.01	<.01	.03	<.05	4	90
CA2015	2.51	.18	.05	.10	.01	<.05	4	90
CA2017	2.58	.46	.05	.02	.03	<.05	4	90
CA2020	1.83	.21	.05	<.01	.03	.06	1	90
CA2021	2.07	.56	3.23	<.01	.03	<.05	4	90
CA2030	.38	.15	.16	<.01	.01	.10	1	90
CA2031	.66	.34	.14	<.01	.04	<.05	1	10
CA2034	.89	.06	.01	<.01	.05	.07	1	10
CA2035	1.19	.20	.04	<.01	.05	1.26	1	10
CA2036	2.41	.52	<.01	<.01	.05	.14	1	90
CA2037	.47	.12	.03	<.01	.04	<.05	6	10
CA2040	1.12	.10	.19	<.01	.04	.37	8	13
CA2041	.98	.10	.01	<.01	.04	.57	8	13
CA2042	3.62	.76	<.01	<.01	.09	.17	1	13
CA2043	--	--	--	--	--	--	1	13
CA2044	--	--	--	.05	.06	.55	1	23
CA2045	4.85	.20	<.01	<.01	.10	5.69	8	13
CA2051	1.67	.13	.10	.03	.03	<.05	-	--
CA2052	.61	.52	.01	<.01	.09	<.05	-	--
CA2053	.51	.15	<.01	<.01	.06	<.05	-	--
CA2056	.11	.38	.03	.02	.06	<.05	-	--
1126600A	3.13	2.10	--	.01	.16	--	1	20
1126600F	3.59	.36	--	.02	.04	--	1	99
702-265A	4.11	5.51	--	<.01	.20	--	1	99
702-265F	3.85	2.49	--	.01	.08	--	1	20
925-195F	3.88	.61	--	.02	.02	--	1	99
925-295F	3.86	1.28	--	.02	.02	--	1	99
983-415	.69	.34	--	.01	.03	--	1	90
983-545	.70	.30	--	<.01	.02	--	1	90
CA1102	--	--	--	--	--	--	1	20
CA1104	--	--	--	--	--	--	1	20
CA1109	--	--	--	--	--	--	1	10
CA1112	--	--	--	--	--	--	1	20
CA1114	--	--	--	--	--	--	1	22
CA1116	--	--	--	--	--	--	1	22
CA1119	--	--	--	--	--	--	1	22
CA1120	--	--	--	--	--	--	1	22
CA1122	--	--	--	--	--	--	1	22
CA1123	--	--	--	--	--	--	1	22

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA--Continued

Sample	SiO2 %	Al2O3 %	FeTO3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	LOI 900 C
CA1124	70.2	14.6	1.15	.49	.59	1.42	4.68	.52	<.05	<.02	5.56
CA1125	69.2	13.8	2.44	.56	.54	1.51	4.88	.47	.06	<.02	5.74
CA1126	73.7	13.3	1.26	.28	.37	1.28	4.45	.54	.08	<.02	4.03
CA1127	69.8	14.1	.66	.64	.56	1.29	6.32	.54	.10	<.02	5.06
CA1130	74.0	15.1	.12	<.10	.17	.92	4.42	.49	.10	<.02	3.81
CA1131	69.5	16.8	.75	.21	.37	1.31	4.26	.49	.13	<.02	5.01
CA1133	17.0	32.4	.90	.24	.40	.93	6.65	.36	.79	<.02	35.2
CA1135	76.3	12.3	.27	.32	.19	.46	5.08	.54	.14	<.02	3.48
CA1138	97.3	.63	.04	<.10	.04	<.15	.04	.28	<.05	<.02	.70
CA1139	24.9	28.0	.13	<.10	.07	1.25	5.72	.10	.23	<.02	31.5
CA1176	60.1	13.7	7.81	.84	.61	1.41	4.90	.50	.09	<.02	9.62
CA1177	54.9	18.1	1.79	2.13	1.09	.61	2.65	2.08	.16	<.02	15.8
CA1178	53.2	18.5	1.91	2.08	1.43	.62	2.39	2.24	.20	<.02	16.5
CA1179	53.6	18.6	1.85	2.05	1.46	.66	2.07	2.26	.34	<.02	16.5
CA1181	73.5	13.8	.45	.35	.34	1.05	4.14	.53	.13	<.02	4.64
CA1185	63.7	12.9	3.38	<.10	.10	.29	6.66	.92	.22	<.02	10.3
CA2156	68.1	14.2	4.29	.40	2.23	3.42	4.49	.61	.21	.03	1.46
CA356	92.2	.52	.05	<.10	.09	<.15	.02	1.21	<.05	<.02	4.93
CA359	56.3	15.1	.50	<.10	.40	2.70	1.83	.98	.62	<.02	19.8
CA378	55.2	12.9	13.0	.68	.40	<.15	4.42	2.25	.30	<.02	10.6
G30-440F	67.7	20.8	3.44	1.47	1.25	1.32	3.93	.53	.05	<.02	12.2
G33-260F	68.3	14.1	2.65	.31	1.65	2.61	4.54	.57	.08	.02	4.62
G45-460F	70.2	14.1	2.85	.45	1.52	3.05	4.70	.68	.15	<.02	1.51
G61-240F	68.3	14.3	2.45	.31	1.60	2.51	4.97	.49	.06	.02	4.07
G61-320F	67.7	14.6	2.86	.40	1.77	2.55	4.32	.52	.07	.02	4.62
G66-345F	68.1	14.3	2.94	.22	1.54	2.60	4.65	.51	.09	<.02	4.34
G69-300F	68.8	14.3	2.27	.25	1.85	2.87	4.98	.48	.15	.12	3.54
G71-435F	67.0	13.9	3.78	.36	1.96	2.80	4.69	.47	.14	.11	4.17
G72-270F	68.9	14.3	2.43	.30	1.78	2.82	4.78	.50	.10	.03	3.55
G88-415	72.0	13.3	2.41	.40	.66	2.05	4.80	.55	.09	<.02	2.64
G88-520	72.4	13.7	1.48	.14	.65	3.88	5.20	.59	.09	.40	.87
G88-665	70.2	13.7	3.97	.21	.65	4.04	5.17	.57	.12	.04	.98
MC8-1695	76.7	13.0	2.16	.32	.21	<.15	1.49	.41	.13	<.02	5.11

TABLE 2. ANALYTICAL RESULTS FOR MAJOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA--Continued

Sample	H2O+ %	H2O- %	CO2 %	Cl %	F %	Total S%	Unit	Altyp
CA1124	--	--	--	--	--	--	1	22
CA1125	--	--	--	--	--	--	1	22
CA1126	--	--	--	--	--	--	1	22
CA1127	--	--	--	--	--	--	1	22
CA1130	--	--	--	--	--	--	1	11
CA1131	--	--	--	--	--	--	1	22
CA1133	--	--	--	--	--	--	1	30
CA1135	--	--	--	--	--	--	1	30
CA1138	--	--	--	--	--	--	7	30
CA1139	--	--	--	--	--	--	7	30
CA1176	--	--	--	--	--	--	1	70
CA1177	--	--	--	--	--	--	4	10
CA1178	--	--	--	--	--	--	4	10
CA1179	--	--	--	--	--	--	4	10
CA1181	--	--	--	--	--	--	1	30
CA1185	--	--	--	--	--	--	3	12
CA2156	--	--	--	--	--	--	4	90
CA356	--	--	--	--	--	--	6	30
CA359	--	--	--	--	--	--	1	30
CA378	--	--	--	--	--	--	3	51
G30-440F	6.73	6.51	--	.02	.29	--	1	99
G33-260F	3.93	.85	--	.02	.05	--	1	99
G45-460F	.95	.63	--	.01	.05	--	1	99
G61-240F	3.67	.78	--	.03	.03	--	1	99
G61-320F	3.48	1.54	--	.02	.05	--	1	99
G66-345F	3.90	.70	--	.03	.04	--	1	99
G69-300F	3.26	.49	--	.03	.04	--	1	99
G71-435F	3.38	.23	--	.02	.03	--	1	99
G72-270F	3.35	.45	--	.02	.03	--	1	99
G88-415	1.63	1.28	--	<.01	.04	--	1	90
G88-520	.58	.22	--	<.01	.02	--	4	90
G88-665	.75	.38	--	<.01	.02	--	4	90
MC8-1695	--	--	--	--	--	--	1	10

Explanation: [1] Unit: 1, rhyolite porphyry; 2, lapilli tuff; 3, basaltic flows; 4, other Tertiary volcanic rocks; 5, hydrothermal breccias and veins; 9, pre-Tertiary rocks.

[2] Altype (alteration type): first digit: 1, silicified; 2 argillized; 3, kaolin-alunite-jarosite; 4, smectite; 7, acid leached; second digit: 1, pyrite-marcasite; 2, iron oxides after sulfides; 3, late kaolin-alunite-opal overprint; 5, argillized in general.

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP-AES

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
1025-725	6.90	1.64	2.32	2.21	.250	1.96	.060	.310	572	<2	<10
1025-805	7.58	2.94	6.56	2.38	1.250	2.26	.100	.900	1,480	<2	<10
1025-990	7.95	3.83	4.56	1.47	1.590	2.25	.070	.560	766	<2	<10
10251705	6.02	.34	2.68	2.42	.510	.03	.050	.140	176	3	160
10251765	2.92	.10	1.07	1.29	.170	.02	.030	.120	58	<2	230
10251790	3.29	.12	1.07	1.44	.190	.02	.040	.100	40	<2	80
1026-915	7.21	4.34	8.24	2.12	1.710	2.09	.180	1.210	1,360	<2	30
1027-375	6.40	.63	3.10	4.09	.290	1.48	.060	.320	1,220	<2	30
1027-510	7.04	1.05	2.02	3.80	.240	2.14	.080	.340	701	<2	20
1029-425	6.11	.37	1.75	4.29	.140	.90	.070	.230	29	<2	50
1030-465	6.01	.40	2.74	4.31	.110	1.23	.050	.210	24	<2	90
1030-855	6.45	.77	4.19	3.22	.040	.68	.310	.250	37	<2	120
1076-300	6.63	.47	2.83	4.21	.360	1.08	.040	.270	31	<2	100
1077-285	5.99	.20	1.00	4.33	.150	.62	.050	.260	9	<2	50
1100-580	6.74	.48	1.92	6.75	.130	.91	.140	.230	22	4	220
1102-365	5.14	.29	6.20	3.98	.170	.73	.040	.200	48	<2	350
1102-595	6.51	.51	1.99	4.53	.230	1.25	.070	.260	367	<2	60
1126-595	7.09	1.54	5.50	2.70	.230	1.74	.070	.350	2,610	<2	30
1126-630	6.92	1.37	2.49	1.99	.310	1.71	.050	.170	84	<2	20
1126-830	8.59	3.30	4.90	2.44	.520	2.76	.220	.670	1,200	4	<10
11261205	9.28	3.10	3.63	2.66	.330	2.80	.260	.700	620	<2	<10
11262095	6.69	.58	1.22	3.76	.360	.89	.040	.160	326	<2	<10
11262125	6.97	.52	1.14	4.36	.400	1.10	.040	.160	279	<2	<10
1126600A	8.66	2.45	5.98	.91	.540	1.56	.110	.590	3,250	<2	20
1126600F	7.74	1.47	1.78	3.36	.160	2.10	.080	.320	294	<2	<10
11271290	8.69	3.33	3.95	2.47	1.580	2.76	.220	.660	381	<2	<10
11271515	8.41	3.57	4.83	2.38	1.320	2.45	.210	.600	739	<2	<10
1129-960	6.99	3.17	7.37	1.98	1.420	2.25	.100	.880	1,440	<2	<10
11301560	5.62	.17	3.21	4.94	.130	.08	.060	.140	68	4	490
702-265A	7.89	1.42	3.05	1.13	.730	1.08	.020	.240	156	<2	20
702-265F	7.95	1.43	2.02	2.66	.340	1.94	.050	.260	198	<2	<10
925-195F	7.21	1.27	1.63	3.37	.130	2.39	.060	.260	222	<2	<10
925-295F	7.21	1.38	1.74	2.70	.200	2.19	.060	.300	282	<2	10
983-415	6.93	1.07	2.00	3.87	.090	2.45	.070	.210	143	<2	20
983-545	7.03	1.15	2.40	3.83	.080	2.50	.080	.260	318	<2	30
CA 100	13.00	.48	.60	1.80	.280	.95	.070	.640	20	<2	20
CA 101	5.70	.10	3.50	6.00	.090	.08	.060	.270	41	18	300
CA 102	6.00	.14	2.90	3.30	.170	.05	.020	.080	370	5	460
CA 103	4.90	.06	1.40	5.20	.090	.08	.020	.190	30	46	300
CA 104	3.30	.07	1.60	2.70	.040	.04	.070	.100	41	37	350
CA 105	5.00	.10	.33	3.40	.120	.06	.010	.170	69	3	40
CA 106	4.40	.13	1.60	3.40	.100	.05	.090	.190	25	12	160
CA 107	4.50	.06	2.40	4.40	.090	.06	.020	.170	36	43	360
CA 108	4.10	.15	1.60	3.40	.130	.06	.160	.160	21	11	210
CA 109	6.20	.16	.37	.73	.210	.03	.140	.220	10	4	40

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
1025-725	<8	304	2	59	23	6	21	<2	17
1025-805	<8	839	3	49	27	42	146	<2	22
1025-990	<8	1,020	2	43	26	33	69	<2	19
10251705	<8	137	2	27	8	20	18	<2	15
10251765	<8	276	1	21	11	27	52	<2	7
10251790	<8	321	1	14	7	29	11	<2	6
1026-915	<8	702	2	48	36	20	137	3	22
1027-375	<8	1,470	5	67	8	2	4	<2	15
1027-510	<8	473	3	67	5	2	5	<2	18
1029-425	<8	152	2	60	5	2	8	<2	15
1030-465	<8	224	3	51	14	2	6	<2	14
1030-855	<8	312	3	54	4	2	8	<2	15
1076-300	<8	306	2	57	9	2	6	<2	16
1077-285	<8	1,350	2	60	1	3	2	<2	16
1100-580	<8	339	2	53	7	2	5	<2	13
1102-365	<8	333	3	33	24	3	6	<2	12
1102-595	<8	160	2	56	4	2	7	<2	15
1126-595	<8	99	3	60	11	7	26	<2	19
1126-630	<8	88	3	60	6	4	8	<2	15
1126-830	<8	1,100	2	66	22	70	32	2	19
11261205	<8	1,220	2	75	15	97	34	2	21
11262095	<8	770	2	55	4	5	8	<2	14
11262125	<8	880	2	60	3	5	5	<2	16
1126600A	<8	482	4	70	13	14	46	<2	23
1126600F	<8	1,090	3	68	7	4	12	<2	18
11271290	<8	1,160	2	64	21	69	40	<2	19
11271515	<8	1,160	2	64	22	71	42	<2	18
1129-960	<8	737	2	42	32	43	148	<2	20
11301560	<8	345	1	43	5	7	12	<2	10
702-265A	<8	497	3	51	5	3	5	<2	19
702-265F	<8	960	2	59	4	1	2	<2	19
925-195F	<8	1,450	3	58	8	1	4	<2	18
925-295F	<8	1,570	4	58	5	4	13	<2	17
983-415	<8	1,350	2	60	3	<1	3	<2	18
983-545	<8	1,400	3	60	4	<1	6	<2	18
CA 100	<8	380	2	62	9	16	250	<2	31
CA 101	<8	200	<1	42	14	44	100	<2	10
CA 102	<8	100	2	21	4	24	11	<2	16
CA 103	<8	89	<1	26	7	33	210	<2	8
CA 104	<8	68	<1	20	5	23	82	<2	5
CA 105	<8	610	1	23	2	38	6	<2	10
CA 106	<8	400	<1	37	<1	37	6	<2	8
CA 107	<8	95	<1	26	7	35	52	<2	8
CA 108	<8	210	1	34	<1	39	6	<2	9
CA 109	<8	130	2	28	<1	59	17	<2	13

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
1025-725	33	9	2	10	30	45	20	8	372
1025-805	27	17	<2	10	30	30	13	23	292
1025-990	26	17	<2	6	26	69	14	15	485
10251705	15	37	<2	4	13	12	15	7	27
10251765	12	32	<2	<4	12	8	5	5	14
10251790	8	32	<2	<4	10	10	8	5	15
1026-915	27	15	<2	7	34	19	9	30	397
1027-375	38	15	<2	11	34	<2	22	5	147
1027-510	37	26	<2	<4	37	<2	19	7	157
1029-425	31	27	<2	8	31	2	17	6	65
1030-465	27	15	7	7	28	7	15	6	116
1030-855	29	8	13	13	30	2	15	3	61
1076-300	30	25	25	12	28	3	15	7	103
1077-285	33	31	6	10	30	<2	22	6	82
1100-580	27	25	23	12	33	4	15	5	95
1102-365	18	16	32	9	18	8	12	5	77
1102-595	30	28	<2	13	29	<2	19	6	104
1126-595	34	13	3	12	31	9	21	8	189
1126-630	34	14	5	6	28	9	22	4	183
1126-830	47	12	<2	14	39	32	11	13	673
11261205	45	9	<2	15	40	29	10	13	697
11262095	32	32	<2	12	24	4	30	4	109
11262125	33	25	<2	<4	27	3	23	4	119
1126600A	40	22	<2	14	38	10	22	12	313
1126600F	38	11	<2	12	34	5	28	6	180
11271290	39	8	<2	13	32	35	12	13	740
11271515	38	18	<2	7	33	33	12	13	667
1129-960	24	10	<2	7	26	37	14	22	289
11301560	22	26	<2	5	25	7	14	5	65
702-265A	34	31	<2	11	31	<2	9	9	226
702-265F	35	13	<2	19	31	<2	20	7	194
925-195F	33	5	<2	13	32	<2	25	7	167
925-295F	33	6	<2	12	30	<2	49	7	244
983-415	37	22	<2	11	35	<2	23	6	123
983-545	36	15	<2	12	33	<2	23	6	132
CA 100	25	7	<2	20	28	8	24	24	260
CA 101	20	25	5	<4	20	20	7	5	190
CA 102	10	29	240	<4	13	<2	<4	4	170
CA 103	14	33	59	<4	14	13	<4	4	100
CA 104	10	21	160	<4	10	8	5	2	81
CA 105	13	21	7	<4	10	2	<4	4	63
CA 106	20	39	75	<4	21	<2	8	4	100
CA 107	13	28	16	<4	13	11	5	4	110
CA 108	18	15	95	<4	20	<2	<4	4	130
CA 109	16	20	19	<4	13	3	4	7	80

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
1025-725	16	39	35	4	73	1	99	5,720	4,995
1025-805	10	217	35	4	98	4	90	5,270	4,995
1025-990	13	138	29	4	71	4	90	5,270	4,995
10251705	6	49	10	1	49	4	90	5,270	4,995
10251765	<4	61	5	<1	23	4	90	5,270	4,995
10251790	<4	39	6	<1	22	8	90	5,270	4,995
1026-915	7	319	33	4	114	3	90	6,900	10,000
1027-375	16	27	29	3	111	1	22	7,600	11,000
1027-510	17	23	33	4	60	1	11	7,600	11,000
1029-425	13	19	32	3	72	1	11	5,300	5,000
1030-465	11	19	28	3	148	1	11	4,900	5,000
1030-855	15	15	30	3	130	1	11	4,900	5,000
1076-300	11	24	35	3	52	1	22	6,900	4,000
1077-285	14	20	21	3	3	1	22	7,150	4,000
1100-580	11	17	29	3	302	1	11	5,400	4,000
1102-365	9	15	40	4	278	1	11	5,700	4,000
1102-595	15	22	27	3	77	1	22	5,700	4,000
1126-595	15	44	37	4	85	1	99	3,670	5,000
1126-630	19	21	30	3	20	1	90	3,670	5,000
1126-830	9	110	24	3	77	3	90	3,670	5,000
11261205	9	116	19	2	55	4	90	3,670	5,000
11262095	19	20	28	3	41	4	90	3,670	5,000
11262125	20	18	29	3	30	4	90	3,670	5,000
1126600A	14	79	39	5	66	1	20	3,670	5,000
1126600F	17	27	41	5	86	1	99	3,670	5,000
11271290	6	113	18	2	80	4	90	5,100	7,500
11271515	6	111	18	2	84	4	90	5,100	7,500
1129-960	8	222	32	4	102	4	90	5,400	6,300
11301560	7	25	21	3	56	1	11	5,080	6,300
702-265A	16	32	27	4	124	1	99	4,600	4,400
702-265F	17	20	34	4	74	1	20	4,600	4,400
925-195F	15	23	38	4	102	1	99	5,300	3,700
925-295F	15	27	34	4	111	1	99	5,300	3,700
983-415	17	25	42	5	70	1	90	5,100	11,200
983-545	17	34	39	5	77	1	90	5,100	11,200
CA 100	7	110	49	4	<2	2	14	6,553	8,043
CA 101	<4	53	7	<1	5	5	11	6,608	8,105
CA 102	<4	46	5	<1	27	7	33	6,659	8,163
CA 103	<4	37	5	<1	4	5	11	6,656	8,159
CA 104	<4	24	5	<1	42	5	11	6,699	8,212
CA 105	<4	45	5	<1	5	2	23	6,719	8,253
CA 106	<4	42	5	1	<2	2	23	6,751	8,357
CA 107	<4	43	8	<1	10	5	11	6,768	8,437
CA 108	<4	44	6	1	<2	2	23	6,768	8,438
CA 109	<4	55	8	1	2	2	23	6,786	8,529

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
CA 110	4.40	.08	1.50	1.70	.260	.04	.090	.240	24	<2	200
CA 111	4.80	.22	.81	1.70	.190	.08	.240	.400	33	<2	100
CA 112	8.60	.29	.62	4.20	.300	.33	.080	.530	21	<2	20
CA 113	7.40	.32	1.60	3.50	.220	1.50	.090	.520	17	<2	120
CA 114	6.00	.25	2.00	3.70	.120	1.70	.030	.280	25	11	370
CA 115	13.00	.54	1.90	2.80	.450	.05	.620	.610	25	<2	110
CA 116	6.20	.06	1.40	6.40	.030	.20	.020	.100	36	3	500
CA 117	5.20	.12	4.60	5.50	.030	.31	.090	.270	100	33	310
CA 118	4.00	.05	.82	4.50	.040	.07	.020	.080	36	98	210
CA 119	5.90	.13	1.80	5.70	.130	.08	.070	.290	27	9	180
CA 120	6.20	.13	2.10	4.20	.160	.05	.060	.170	31	72	330
CA 121	4.90	.06	2.90	5.20	.080	.06	.040	.160	38	9	250
CA 122	7.30	.12	2.60	3.60	.200	.05	.060	.200	18	<2	140
CA 124	5.70	.11	2.50	5.20	.080	.07	.040	.190	29	6	1,200
CA 125	5.50	.10	3.00	5.40	.070	.08	.090	.260	31	6	740
CA 126	3.20	.04	3.20	1.90	.110	.03	.050	.120	53	84	780
CA 127	4.70	.10	5.70	3.00	.150	.07	.090	.130	20	3	650
CA 128	.14	.02	.07	<.05	.010	.02	<.005	.240	52	7	<10
CA 129	6.30	.10	.31	4.00	.160	.34	.020	.270	22	3	60
CA 130	6.50	.05	.57	.78	.010	.05	.030	.320	9	6	60
CA 131A	11.00	.28	2.00	3.20	.580	.04	.210	.280	17	<2	140
CA 131B	9.40	.25	2.20	2.40	.430	.04	.230	.320	19	<2	110
CA 132	5.10	.31	.75	1.90	.310	.06	.160	.720	34	<2	30
CA 133	5.90	.13	1.20	6.10	.080	.13	.070	.180	35	<2	90
CA 134	6.80	.22	1.80	3.40	.460	.08	.150	.780	40	<2	60
CA 135	17.00	.22	1.20	7.50	.020	.27	.810	.020	29	<2	1,900
CA 136	3.50	.04	1.60	.61	.020	.03	.030	<.005	45	110	140
CA 137	5.00	.15	17.00	.50	.150	.06	.260	.480	140	3	3,300
CA 138	10.00	.10	1.00	1.50	.050	.15	.220	.600	57	2	180
CA 139	5.10	.11	3.80	4.50	.120	.12	.110	.470	50	33	620
CA 140	5.20	.21	2.10	3.80	.160	.20	.060	.320	26	3	190
CA 141	5.70	.16	3.20	3.40	.390	.05	.160	.250	21	<2	240
CA 142	11.00	.30	1.10	2.30	.280	.04	.320	.250	25	<2	140
CA 143	12.00	.14	2.20	3.80	.550	.04	.100	.640	26	<2	20
CA 144	8.90	.32	1.10	1.80	.210	.98	.270	.300	12	<2	110
CA 145	8.00	.27	.82	3.60	.560	.09	.110	1.100	42	<2	20
CA 146	8.10	.29	.94	3.20	.080	.14	.370	.670	28	<2	100
CA 147	4.80	.26	2.70	3.60	.100	.91	.080	.300	34	4	280
CA 149	7.70	.67	7.20	3.30	.330	.27	1.100	.230	22	<2	1,200
CA 150	6.00	.19	.61	3.80	.130	.91	.130	.340	22	13	130
CA 151	7.80	.29	.66	2.60	.210	.29	.440	.480	26	3	60
CA 152	7.70	.17	3.40	4.60	.020	.09	.190	.280	90	14	640
CA 153	15.00	.09	.60	1.10	.150	.06	.030	.080	7	2	100
CA 154A	5.30	.11	2.00	5.20	.008	.53	.030	.230	26	3	310
CA 154B	5.80	.10	1.10	5.80	.007	.53	.030	.270	16	5	270

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
CA 110	<8	110	1	39	2	85	44	<2	13
CA 111	<8	510	2	140	4	160	23	2	12
CA 112	<8	1,400	1	44	2	43	7	<2	20
CA 113	<8	130	1	49	2	50	12	<2	18
CA 114	<8	110	1	30	4	48	64	<2	11
CA 115	<8	130	13	79	27	65	26	9	19
CA 116	<8	1,300	1	48	5	4	8	<2	10
CA 117	<8	160	3	34	3	9	31	<2	10
CA 118	<8	350	<1	12	4	18	51	<2	5
CA 119	<8	140	<1	43	6	50	35	<2	10
CA 120	<8	160	1	22	8	43	18	<2	11
CA 121	<8	130	<1	19	12	43	45	<2	9
CA 122	<8	280	<1	34	14	47	390	<2	11
CA 124	<8	150	<1	26	12	43	16	<2	9
CA 125	<8	140	<1	43	11	51	32	<2	9
CA 126	<8	78	1	16	13	43	210	<2	9
CA 127	<8	80	1	28	1	80	65	<2	9
CA 128	<8	880	3	<4	<1	4	2	<2	<4
CA 129	<8	330	2	40	<1	3	8	<2	14
CA 130	<8	860	1	54	1	6	19	<2	10
CA 131A	<8	97	3	50	42	130	51	2	18
CA 131B	<8	170	2	47	29	120	27	2	16
CA 132	<8	410	2	35	2	120	3	<2	18
CA 133	<8	210	1	49	<1	4	7	<2	15
CA 134	<8	120	2	59	2	140	11	<2	20
CA 135	<8	140	2	17	3	71	29	<2	6
CA 136	600	130	1	<4	2	4	22	<2	4
CA 137	<8	410	3	54	9	55	210	<2	17
CA 138	<8	100	2	69	<1	69	120	<2	21
CA 139	<8	190	1	32	31	44	15	<2	13
CA 140	<8	170	<1	40	7	130	33	<2	8
CA 141	<8	100	2	64	<1	88	12	<2	12
CA 142	<8	220	3	56	69	150	35	2	20
CA 143	<8	680	2	82	2	190	11	3	26
CA 144	<8	220	2	35	<1	120	7	<2	14
CA 145	<8	1,200	2	63	3	190	11	<2	24
CA 146	<8	230	1	60	2	120	46	<2	13
CA 147	<8	100	<1	20	8	120	100	<2	7
CA 149	<8	690	1	200	3	81	36	8	17
CA 150	<8	220	1	50	1	46	18	<2	13
CA 151	<8	160	2	78	2	59	110	3	21
CA 152	<8	440	1	68	4	3	22	<2	17
CA 153	<8	150	1	13	<1	3	7	<2	13
CA 154A	<8	680	1	50	4	3	7	<2	15
CA 154B	<8	260	1	60	<1	2	4	<2	15

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
CA 110	21	25	5	<4	18	7	<4	9	86
CA 111	36	37	13	<4	64	7	4	10	210
CA 112	26	31	4	10	19	6	7	9	270
CA 113	27	19	3	9	17	7	10	10	540
CA 114	20	35	24	4	10	9	8	5	430
CA 115	46	20	2	24	73	30	15	16	2,600
CA 116	26	18	16	<4	23	5	17	3	63
CA 117	18	19	12	<4	14	5	10	6	200
CA 118	7	58	69	<4	5	5	4	<2	85
CA 119	21	41	20	4	18	10	5	7	160
CA 120	11	31	22	<4	12	11	<4	5	130
CA 121	10	30	18	<4	12	18	5	3	100
CA 122	18	25	9	<4	17	19	4	6	190
CA 124	13	27	18	<4	14	18	<4	4	110
CA 125	20	24	13	<4	25	20	<4	5	140
CA 126	9	13	180	<4	7	23	4	4	71
CA 127	15	16	92	<4	16	<2	7	5	130
CA 128	<2	6	3	6	<4	<2	8	<2	19
CA 129	24	26	10	8	17	<2	16	8	200
CA 130	29	75	49	6	23	<2	14	7	290
CA 131A	25	14	40	6	27	150	5	13	150
CA 131B	24	20	40	6	29	110	5	12	140
CA 132	18	28	<2	8	20	2	<4	14	26
CA 133	26	13	3	<4	24	<2	14	5	57
CA 134	29	22	<2	13	41	4	<4	19	74
CA 135	4	19	7	<4	20	49	<4	5	1,200
CA 136	<2	74	10	<4	<4	3	<4	2	82
CA 137	28	16	220	8	28	8	10	13	2,600
CA 138	35	18	10	15	39	<2	8	13	1,900
CA 139	14	27	250	<4	21	53	<4	11	240
CA 140	18	50	4	<4	24	16	<4	6	140
CA 141	34	13	50	<4	36	<2	6	7	110
CA 142	27	23	15	7	30	230	<4	12	110
CA 143	40	29	<2	13	44	34	6	17	15
CA 144	18	50	3	7	22	9	<4	12	23
CA 145	33	17	<2	17	41	4	<4	25	61
CA 146	30	21	6	14	31	5	6	16	250
CA 147	11	47	6	<4	12	20	<4	6	200
CA 149	80	51	35	<4	170	17	<4	11	620
CA 150	27	22	2	<4	25	4	9	7	590
CA 151	41	24	<2	11	47	7	10	12	420
CA 152	29	36	25	12	46	4	13	9	670
CA 153	6	420	20	5	5	4	<4	3	43
CA 154A	25	14	5	6	26	<2	14	6	120
CA 154B	30	14	3	7	31	<2	15	6	180

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
CA 110	<4	65	20	1	6	2	23	6,806	8,648
CA 111	<4	100	8	1	12	2	23	6,833	8,869
CA 112	4	110	5	<1	3	3	20	6,833	8,954
CA 113	<4	100	6	<1	4	3	11	6,810	9,082
CA 114	<4	61	4	<1	5	5	11	6,809	9,084
CA 115	6	86	43	3	12	2	13	6,441	8,040
CA 116	11	15	20	2	62	1	90	6,459	8,052
CA 117	7	32	9	<1	24	2	22	6,427	8,030
CA 118	<4	20	2	<1	28	5	11	6,612	8,192
CA 119	<4	63	7	1	<2	2	11	6,612	8,192
CA 120	<4	60	7	1	13	2	14	6,668	8,274
CA 121	<4	51	19	1	6	2	11	6,644	8,226
CA 122	4	68	9	1	4	2	14	6,676	8,283
CA 124	<4	40	12	1	9	2	11	6,704	8,395
CA 125	<4	43	6	1	<2	5	11	6,707	8,409
CA 126	<4	47	3	<1	7	5	11	6,717	8,468
CA 127	<4	61	7	1	3	2	13	6,722	8,495
CA 128	<4	5	3	<1	<2	7	73	6,049	8,165
CA 129	11	21	12	2	8	1	13	6,121	8,084
CA 130	11	27	6	1	<2	1	13	6,268	8,018
CA 131A	<4	150	33	2	140	3	13	6,732	8,534
CA 131B	<4	130	23	2	230	3	23	6,732	8,534
CA 132	<4	100	9	1	<2	3	13	6,777	8,768
CA 133	7	21	15	2	<2	1	13	6,783	8,808
CA 134	<4	140	8	2	3	3	13	6,784	8,832
CA 135	<4	110	4	<1	66	3	14	6,794	8,936
CA 136	<4	26	<2	<1	10	6	11	6,693	9,131
CA 137	6	210	13	2	63	3	23	6,706	9,119
CA 138	6	72	12	2	3	3	23	6,719	9,111
CA 139	<4	130	16	2	52	2	11	6,727	9,099
CA 140	<4	63	9	<1	<2	3	13	6,735	9,091
CA 141	<4	89	6	1	<2	2	14	6,727	8,508
CA 142	<4	150	48	2	310	3	13	6,735	8,557
CA 143	<4	170	14	1	3	3	13	6,738	8,565
CA 144	<4	130	12	1	4	3	24	6,768	8,723
CA 145	<4	180	8	2	6	3	24	6,786	8,820
CA 146	<4	150	9	1	19	3	13	6,794	8,869
CA 147	<4	59	5	<1	<2	3	13	6,797	8,913
CA 149	<4	73	31	1	17	3	10	6,787	8,982
CA 150	<4	55	7	<1	4	3	10	6,745	9,074
CA 151	4	170	19	2	37	3	13	6,733	9,091
CA 152	11	32	13	2	14	1	13	6,693	9,131
CA 153	<4	58	4	<1	33	7	23	6,681	9,140
CA 154A	9	14	16	2	5	5	11	6,659	9,157
CA 154B	11	11	8	1	<2	2	11	6,659	9,157

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
CA 155	8.20	.16	7.40	6.30	.120	.20	.090	.250	39	<2	820
CA 156	5.60	.10	1.30	5.10	.009	.55	.020	.240	16	23	230
CA 157	6.30	.20	.95	4.10	.030	.96	.070	.230	17	<2	150
CA 159	8.70	.27	.52	6.00	.200	.97	.060	.210	4	<2	110
CA 160	7.60	.18	.33	6.00	.070	1.10	.030	.310	5	<2	20
CA 161	5.00	.07	7.20	4.00	.020	.38	.070	.260	18	<2	430
CA 162	7.00	.14	1.10	4.30	.020	.92	.030	.310	5	<2	80
CA 163	7.00	.14	.85	3.90	.030	.68	.050	.310	16	<2	80
CA 164	5.50	.10	2.50	1.40	.040	.21	.020	.270	7	<2	340
CA 165	12.00	.23	7.50	1.40	.280	.10	.120	.210	11	<2	550
CA 166	8.40	.16	.61	4.90	.040	.96	.040	.370	4	<2	40
CA 167	7.70	.12	1.40	3.70	.070	.52	.020	.350	4	<2	100
CA 169	6.30	.09	.56	4.10	.020	.69	.020	.360	7	<2	50
CA 170	7.30	.25	1.50	3.00	.360	.15	.160	.230	64	<2	140
CA 171	7.90	.18	.65	3.70	.170	.63	.020	.280	<4	<2	80
CA 172	8.40	.16	.77	1.90	.150	.40	.040	.360	5	<2	100
CA 173	5.70	.14	.46	2.30	.040	.26	.150	.320	<4	<2	170
CA 174	17.00	.11	.33	6.40	.040	.35	.170	.020	<4	<2	360
CA 175	6.90	.20	.83	2.90	.210	.54	.070	.270	9	<2	50
CA 176	7.10	.29	1.70	4.40	.210	1.20	.020	.290	64	<2	60
CA 178	6.10	.42	1.40	3.60	.110	1.40	.040	.220	17	<2	100
CA 179	14.00	.18	.27	.10	.280	.08	.040	.340	7	<2	<10
CA 180	11.00	.67	1.40	2.70	1.300	.44	.010	.130	15	<2	110
CA 181	7.40	.42	1.00	4.30	.430	1.10	.030	.260	12	<2	70
CA 182	6.90	.17	2.20	3.00	.020	1.00	.040	.300	10	<2	90
CA 183	6.70	.29	1.60	3.20	.020	1.20	.050	.290	24	<2	140
CA 184	7.90	3.40	.63	2.50	.130	.59	.020	.330	45	<2	20
CA 185	7.30	.16	.77	3.20	.030	1.10	.010	.350	19	<2	<10
CA 186	12.00	.20	1.00	.09	.330	.05	.030	.380	12	<2	70
CA 187	3.40	.08	3.60	.74	.030	.94	.030	.200	4	<2	170
CA 187B	1.00	.14	.91	.35	.040	.23	.008	.230	5	<2	60
CA 189	.21	.05	15.00	3.20	.040	.03	.180	.210	6	2	410
CA 190	2.20	.05	.12	.86	.010	.13	.030	.260	6	3	30
CA 191	15.00	.14	.73	.29	.010	4.00	.190	.060	<4	8	180
CA 192	1.70	.08	20.00	2.90	.040	.53	.160	.100	25	3	790
CA 193	4.50	.06	3.20	4.70	.090	.06	.020	.130	27	28	1,300
CA 194	5.90	.08	2.70	5.60	.090	.07	.040	.170	22	<2	150
CA 206	5.50	.39	4.00	3.40	.130	.06	.350	.460	27	<2	150
CA 208	5.10	.17	7.30	4.10	.240	.21	.060	.850	70	14	1,300
CA 209	3.80	.14	2.50	2.30	.100	.16	.060	.140	38	30	450
CA 211	5.00	.16	3.40	4.40	.050	.11	.140	.420	64	13	540
CA 216	6.90	.14	.75	3.70	.020	.58	.130	.260	5	5	90
CA 217	5.20	.12	1.80	5.70	.010	.56	.020	.200	51	22	180
CA 221	7.00	.14	1.30	5.80	.020	1.00	.030	.310	12	<2	140
CA 223	8.00	.15	.28	4.20	.050	.73	.030	.280	4	<2	100

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
CA 155	<8	570	5	54	15	3	35	<2	28
CA 156	<8	1,200	1	47	1	3	5	<2	15
CA 157	<8	1,100	1	70	2	3	4	2	19
CA 159	<8	280	1	69	2	1	14	<2	22
CA 160	<8	1,200	1	60	1	3	4	<2	18
CA 161	<8	290	1	52	72	3	7	<2	20
CA 162	<8	1,100	1	50	2	2	4	<2	18
CA 163	<8	1,000	1	66	2	3	3	<2	17
CA 164	<8	210	<1	30	<1	3	4	<2	15
CA 165	<8	190	2	47	3	3	12	<2	18
CA 166	<8	480	2	89	<1	2	2	<2	22
CA 167	<8	430	1	55	<1	2	5	<2	22
CA 169	<8	940	1	39	1	3	2	<2	18
CA 170	<8	360	2	66	4	6	18	<2	24
CA 171	<8	310	2	62	<1	2	5	<2	26
CA 172	<8	190	2	78	<1	2	8	<2	22
CA 173	<8	900	2	170	1	3	7	4	19
CA 174	<8	890	3	100	1	3	4	3	21
CA 175	<8	690	2	60	1	3	4	<2	20
CA 176	<8	960	2	48	7	2	5	<2	18
CA 178	<8	1,700	3	56	4	2	5	<2	17
CA 179	<8	130	<1	69	<1	2	3	<2	25
CA 180	<8	410	2	9	11	1	12	<2	14
CA 181	<8	920	2	40	4	2	4	<2	17
CA 182	<8	120	2	58	3	2	13	<2	17
CA 183	<8	290	2	52	10	3	7	<2	16
CA 184	<8	610	<1	46	3	2	3	<2	18
CA 185	<8	890	<1	45	1	3	3	<2	19
CA 186	<8	170	<1	43	2	2	4	<2	24
CA 187	<8	130	<1	35	<1	3	2	<2	15
CA 187B	<8	76	<1	10	<1	2	2	<2	6
CA 189	<8	460	<1	5	2	6	3	<2	40
CA 190	<8	770	1	27	<1	3	5	<2	7
CA 191	<8	380	<1	91	<1	5	5	<2	22
CA 192	<8	110	2	59	3	8	6	<2	32
CA 193	<8	130	<1	20	33	34	21	<2	11
CA 194	<8	170	<1	27	17	45	6	<2	6
CA 206	<8	220	1	46	3	66	14	<2	15
CA 208	<8	180	1	30	24	21	470	3	13
CA 209	<8	75	1	29	8	34	260	<2	10
CA 211	<8	180	2	33	26	42	35	<2	7
CA 216	<8	1,000	1	94	4	3	6	<2	17
CA 217	19	1,300	2	41	3	5	20	<2	14
CA 221	<8	1,200	2	56	2	3	4	<2	17
CA 223	<8	1,100	1	67	1	2	4	<2	22

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
CA 155	27	16	200	7	28	17	9	14	230
CA 156	26	30	5	<4	20	<2	15	7	140
CA 157	36	26	6	5	40	<2	22	6	160
CA 159	34	33	<2	7	37	<2	17	11	240
CA 160	34	17	<2	18	25	<2	17	7	140
CA 161	25	15	12	6	28	4	12	7	89
CA 162	28	20	3	10	21	<2	20	7	110
CA 163	35	12	4	13	37	<2	19	7	170
CA 164	20	20	8	7	11	<2	8	7	88
CA 165	30	84	10	12	16	2	18	13	1,500
CA 166	44	34	2	13	47	<2	22	8	200
CA 167	29	29	18	13	25	<2	15	8	190
CA 169	21	18	11	12	15	<2	16	7	96
CA 170	31	36	15	5	38	14	16	8	590
CA 171	33	29	49	12	26	2	16	8	170
CA 172	38	21	71	15	37	<2	22	9	190
CA 173	91	<2	34	8	86	<2	40	8	680
CA 174	53	45	63	5	64	2	43	9	1,500
CA 175	31	13	9	9	34	<2	18	8	640
CA 176	27	14	3	10	22	<2	19	7	190
CA 178	31	9	14	10	26	<2	19	7	180
CA 179	34	17	<2	15	39	<2	7	7	120
CA 180	5	70	5	5	<4	4	5	5	78
CA 181	23	27	3	9	22	<2	18	7	120
CA 182	29	18	22	10	31	<2	15	7	230
CA 183	28	15	26	8	26	2	17	7	190
CA 184	28	12	<2	12	22	<2	17	7	130
CA 185	25	12	<2	11	18	<2	17	6	71
CA 186	26	14	8	15	20	<2	25	7	140
CA 187	21	3	17	5	6	<2	7	4	180
CA 187B	6	<2	12	<4	<4	<2	<4	3	60
CA 189	3	20	11	<4	<4	<2	62	2	360
CA 190	16	2	5	7	9	<2	16	4	100
CA 191	43	4	11	<4	52	<2	10	7	1,200
CA 192	26	21	25	4	39	<2	5	3	680
CA 193	11	42	910	<4	8	33	4	3	69
CA 194	13	30	24	<4	13	26	4	4	100
CA 206	19	30	14	<4	40	4	<4	12	150
CA 208	13	32	34	6	26	17	5	18	90
CA 209	14	93	13	<4	13	16	<4	3	120
CA 211	16	30	30	<4	18	29	4	9	260
CA 216	52	17	12	11	45	<2	22	10	320
CA 217	22	41	12	<4	18	<2	12	5	150
CA 221	30	24	15	16	26	<2	19	8	150
CA 223	34	8	55	10	33	<2	26	7	140

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
CA 155	10	120	17	2	81	1	23	6,632	9,174
CA 156	9	20	12	2	<2	5	11	6,637	9,170
CA 157	9	20	47	3	5	1	90	6,614	9,182
CA 159	12	21	16	2	24	1	11	6,493	9,208
CA 160	12	15	13	2	6	1	13	6,456	9,204
CA 161	6	23	18	2	13	1	11	6,444	9,200
CA 162	12	21	16	2	3	1	14	6,435	9,200
CA 163	13	22	19	2	5	1	90	6,403	9,192
CA 164	13	20	5	<1	3	1	12	6,370	9,178
CA 165	12	50	4	<1	54	1	14	6,322	9,151
CA 166	15	27	14	2	8	1	10	6,295	9,129
CA 167	13	34	14	2	12	1	23	6,266	9,102
CA 169	13	24	11	2	11	1	90	6,273	9,111
CA 170	10	33	18	2	160	1	14	6,229	9,048
CA 171	17	27	13	2	40	1	23	6,220	9,028
CA 172	14	32	24	4	24	1	23	6,212	9,014
CA 173	10	23	14	2	19	1	23	6,211	9,011
CA 174	6	41	5	<1	25	7	23	6,199	8,982
CA 175	11	33	30	3	36	1	23	6,192	8,965
CA 176	15	28	17	2	45	1	23	6,176	8,928
CA 178	14	27	23	3	47	1	14	6,170	8,915
CA 179	20	16	62	6	46	7	73	6,169	8,911
CA 180	5	24	95	8	210	7	23	6,157	8,884
CA 181	9	30	11	2	20	7	73	6,153	8,874
CA 182	11	30	15	2	7	1	11	6,143	8,848
CA 183	10	28	20	2	13	1	11	6,142	8,844
CA 184	13	16	29	4	42	1	23	6,125	8,796
CA 185	15	19	15	2	10	1	90	6,121	8,790
CA 186	16	18	85	8	31	1	23	6,104	8,750
CA 187	10	24	13	2	<2	1	23	6,020	8,650
CA 187B	11	11	14	2	<2	1	23	6,020	8,651
CA 189	<4	32	5	1	16	1	23	6,017	8,549
CA 190	6	21	6	1	<2	1	23	5,984	8,469
CA 191	11	130	2	<1	<2	7	73	6,024	8,332
CA 192	10	470	4	<1	39	7	73	6,026	8,340
CA 193	<4	88	5	<1	20	2	11	6,649	8,307
CA 194	<4	55	8	<1	11	2	11	6,652	8,311
CA 206	<4	160	12	1	3	3	10	6,751	8,824
CA 208	<4	220	19	2	<2	3	11	6,756	8,938
CA 209	<4	47	3	<1	9	3	11	6,744	8,991
CA 211	<4	90	16	1	36	3	11	6,709	9,063
CA 216	9	33	32	3	11	1	90	6,569	9,156
CA 217	7	15	13	2	7	1	11	6,630	9,127
CA 221	11	23	18	2	20	1	10	6,304	9,084
CA 223	14	27	29	4	7	1	23	6,258	9,011

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
CA 226	11.00	.17	1.10	.11	.230	.07	.040	.320	19	<2	60
CA 227	11.00	.24	1.40	.09	.440	.06	.030	.550	19	<2	50
CA 228	9.90	.20	4.50	.34	.340	.06	.020	.360	15	<2	190
CA 229	13.00	.47	.89	.07	.960	.05	.120	.470	<4	<2	80
CA 230	14.00	.21	.69	1.00	.020	2.80	.150	.160	8	<2	150
CA 253	4.30	.10	1.60	4.20	.060	.15	.030	.090	39	14	590
CA 256	4.00	.09	3.40	3.00	.040	.04	.090	.110	100	10	910
CA 257	3.50	.20	13.00	3.60	.070	.07	.180	.100	12,000	34	1,100
CA 258	.92	.31	5.90	.43	.040	.04	.180	.270	1,800	12	490
CA 260	14.00	.41	2.80	7.60	.030	.04	.970	.060	48	<2	340
CA 263	5.70	.06	2.30	5.70	.040	.16	.020	.100	33	<2	170
CA 267	3.80	.09	5.00	2.00	.160	.20	.030	.260	22	<2	480
CA 270	.85	.05	1.70	.23	.020	.02	.030	.020	150	16	150
CA 274	2.50	.14	11.00	1.90	.100	.25	.170	.930	46	<2	620
CA 275	12.00	.40	.61	4.70	.090	.07	.520	.650	19	<2	300
CA 276	3.40	.08	2.70	3.50	.050	.06	.050	.180	75	26	460
CA 277	9.50	.15	.46	2.10	.080	1.00	.180	.750	470	2	60
CA 278	6.20	.23	4.20	.75	.070	.11	.110	.340	22,000	29	410
CA 279	6.00	.12	8.60	3.00	.040	.10	.160	.160	150	11	120
CA 280	3.10	.10	2.40	3.40	.020	.20	.030	.130	59	51	270
CA 282	5.70	.07	2.50	5.20	.010	.44	.020	.140	31	4	100
CA 287	.48	.04	.06	.08	.010	.03	.020	.020	30	93	10
CA 307	11.00	.20	4.30	3.00	.370	.06	.360	.350	28	<2	130
CA 309	5.90	.07	2.40	6.70	.080	.19	.030	.210	31	5	620
CA 310	5.60	.23	1.80	5.20	.260	.11	.070	.270	20	<2	190
CA 312	7.20	.29	4.00	4.20	.340	.98	.110	.290	24	3	250
CA 313	6.70	.14	1.30	6.40	.020	.76	.020	.270	13	12	250
CA 314	7.10	.07	1.10	3.80	.010	.35	.040	.310	5	<2	140
CA 315	9.20	.16	2.70	7.10	.110	.68	.030	.300	12	<2	460
CA 319	6.20	.07	.86	4.50	.020	.32	.020	.240	57	6	60
CA 322	.47	.04	6.30	.08	.020	.06	.010	.210	25	4	430
CA 324	14.00	1.40	2.20	.45	.010	1.80	.230	.290	6	2	430
CA 327	9.00	1.40	2.40	2.70	.150	2.10	.060	.560	120	<2	40
CA 328	7.60	.36	1.00	4.00	.160	2.60	.040	.340	12	3	100
CA 330	9.10	.34	1.30	3.80	.330	.33	.090	.570	21	<2	60
CA 331	9.10	.21	.74	4.30	.340	.24	.060	.680	33	3	30
CA 332	4.20	.11	1.20	3.50	.100	.09	.100	.260	31	4	280
CA 334	5.30	.14	.42	5.70	.180	.07	.120	.240	19	3	30
CA 337	3.90	.05	2.30	1.80	.050	.03	.040	.110	32	62	1,100
CA 339	9.00	.20	2.20	2.60	.450	.05	.040	.390	44	<2	80
CA 340	5.20	.06	5.00	2.50	.030	.11	.030	.240	39	9	180
CA 342	5.80	.10	1.80	5.50	.060	.29	.050	.130	33	13	540
CA1000	6.90	.43	1.80	3.80	.310	1.00	.100	.310	11	<2	10
CA1001	7.30	.72	1.20	3.80	.240	1.70	.040	.290	13	<2	<10
CA1002	8.10	.26	.63	2.90	.210	.74	.070	.290	<4	<2	40

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
CA 226	<8	860	1	43	1	3	3	<2	24
CA 227	<8	66	4	73	1	3	6	3	29
CA 228	<8	140	<1	30	2	3	8	<2	20
CA 229	<8	270	<1	180	1	2	9	4	27
CA 230	<8	1,000	2	44	2	4	36	<2	27
CA 253	<8	800	1	30	9	5	13	<2	9
CA 256	<8	120	2	27	11	54	14	<2	10
CA 257	<8	180	3	8	570	77	40	<2	11
CA 258	<8	520	1	13	56	25	34	<2	6
CA 260	<8	290	2	21	3	63	5	<2	16
CA 263	<8	620	1	42	7	3	27	<2	10
CA 267	<8	150	1	12	<1	14	5	<2	11
CA 270	<8	250	3	5	2	6	13	<2	5
CA 274	<8	58	1	37	2	21	36	<2	16
CA 275	<8	110	3	74	<1	210	21	3	17
CA 276	<8	750	<1	19	14	60	13	<2	5
CA 277	<8	350	<1	51	5	24	20	3	21
CA 278	<8	310	1	36	1,900	8	64	<2	11
CA 279	<8	280	3	39	8	3	33	<2	12
CA 280	<8	860	2	29	4	4	23	<2	11
CA 282	<8	480	1	46	3	5	29	<2	12
CA 287	12	440	2	8	1	4	2	<2	<4
CA 307	<8	70	3	82	44	240	120	3	22
CA 309	<8	110	1	42	8	5	18	<2	9
CA 310	<8	93	<1	39	10	150	65	2	11
CA 312	<8	33	1	42	18	54	91	3	16
CA 313	<8	1,200	1	57	2	3	3	<2	15
CA 314	<8	720	3	60	1	3	5	<2	20
CA 315	<8	150	2	88	<1	3	4	<2	21
CA 319	<8	80	2	37	1	3	14	<2	10
CA 322	<8	800	7	8	1	3	5	<2	<4
CA 324	<8	180	3	120	<1	14	30	<2	54
CA 327	<8	1,200	1	36	9	55	110	<2	19
CA 328	<8	1,400	1	48	2	42	5	<2	16
CA 330	<8	1,400	2	59	1	64	19	<2	19
CA 331	<8	1,000	2	58	2	63	18	<2	18
CA 332	<8	200	1	38	3	130	24	<2	8
CA 334	<8	1,500	<1	45	3	110	14	<2	10
CA 337	<8	36	<1	27	10	37	250	<2	13
CA 339	<8	110	2	97	11	20	20	<2	23
CA 340	<8	57	1	57	5	7	19	<2	14
CA 342	<8	70	2	48	6	4	9	<2	12
CA1000	<8	380	1	77	<1	2	3	<2	19
CA1001	<8	1,200	2	54	12	3	4	<2	18
CA1002	<8	1,000	1	100	3	3	8	<2	19

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
CA 226	23	16	<2	14	24	<2	15	7	220
CA 227	32	54	4	20	62	5	12	10	120
CA 228	18	24	15	15	14	<2	10	7	110
CA 229	86	54	5	19	92	4	28	12	670
CA 230	21	14	7	7	36	2	10	9	900
CA 253	16	55	500	<4	15	9	10	3	51
CA 256	13	32	84	<4	15	7	6	4	240
CA 257	5	86	65	<4	<4	140	<4	4	180
CA 258	8	28	57	<4	6	25	6	4	50
CA 260	9	15	120	<4	14	4	<4	10	870
CA 263	22	17	4	4	19	5	19	3	80
CA 267	6	25	170	5	5	<2	6	5	73
CA 270	2	47	47	<4	4	3	<4	<2	130
CA 274	20	36	20	7	17	<2	7	16	95
CA 275	42	8	3	15	44	4	<4	17	480
CA 276	9	22	92	<4	11	24	<4	4	82
CA 277	28	9	42	10	27	10	10	14	880
CA 278	17	260	240	4	24	310	12	8	590
CA 279	19	22	38	7	27	9	12	7	610
CA 280	15	48	170	<4	13	3	12	3	160
CA 282	24	16	6	6	24	<2	15	5	86
CA 287	5	21	8	<4	<4	<2	15	<2	110
CA 307	37	92	<2	<4	54	86	<4	17	37
CA 309	22	35	3	8	21	6	19	5	50
CA 310	18	45	<2	<4	25	20	<4	7	76
CA 312	21	25	3	11	38	37	5	7	350
CA 313	31	33	5	7	25	<2	20	7	160
CA 314	29	32	20	15	29	<2	21	10	150
CA 315	44	12	230	14	39	<2	20	6	220
CA 319	21	25	7	8	16	<2	20	5	160
CA 322	3	28	4	7	8	<2	<4	<2	84
CA 324	71	31	5	17	55	<2	44	12	2,000
CA 327	24	10	<2	12	18	42	7	12	520
CA 328	30	15	<2	8	16	5	10	9	550
CA 330	38	38	4	9	20	5	9	11	300
CA 331	36	26	<2	15	25	9	10	13	260
CA 332	18	36	24	<4	20	5	<4	6	150
CA 334	23	18	17	<4	25	4	5	7	150
CA 337	13	12	710	<4	4	13	5	5	98
CA 339	48	16	2	19	49	11	15	15	48
CA 340	29	19	260	8	24	3	16	6	350
CA 342	24	70	6	5	26	5	18	5	110
CA1000	40	21	<2	13	37	<2	17	7	110
CA1001	31	6	<2	12	26	3	17	7	120
CA1002	54	10	8	12	66	<2	20	9	300

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
CA 226	15	23	29	4	45	1	23	6,236	8,963
CA 227	25	32	83	9	210	1	23	6,209	8,886
CA 228	17	51	45	5	55	1	23	6,167	8,798
CA 229	22	22	63	6	120	1	23	6,143	8,728
CA 230	12	73	10	2	13	1	23	6,053	8,559
CA 253	9	24	17	2	36	5	10	6,588	8,566
CA 256	<4	45	14	1	50	2	12	6,607	8,619
CA 257	6	97	15	1	160	7	22	6,626	8,655
CA 258	<4	45	11	1	78	3	23	6,630	8,665
CA 260	<4	450	7	<1	67	7	23	6,644	8,697
CA 263	10	17	23	3	28	2	11	6,627	8,658
CA 267	<4	55	5	<1	3	3	20	6,561	8,552
CA 270	<4	21	<2	<1	9	6	12	6,664	9,083
CA 274	5	270	9	2	<2	3	12	6,643	8,844
CA 275	<4	300	7	<1	54	3	13	6,619	8,854
CA 276	<4	39	12	1	110	3	11	6,604	8,859
CA 277	5	310	16	3	45	2	23	6,589	8,865
CA 278	11	100	21	2	250	2	11	6,567	8,876
CA 279	8	43	8	<1	33	2	12	6,560	8,883
CA 280	7	24	7	1	10	1	12	6,565	8,896
CA 282	12	28	20	2	10	1	11	6,348	8,466
CA 287	<4	4	<2	<1	<2	2	10	6,511	8,559
CA 307	9	230	42	3	2	2	21	6,690	8,574
CA 309	6	22	21	2	14	1	11	6,721	8,703
CA 310	<4	76	17	<1	<2	2	10	6,734	8,798
CA 312	6	85	41	2	<2	3	11	6,731	9,004
CA 313	10	22	9	1	4	1	11	6,579	9,143
CA 314	13	29	19	3	10	1	10	6,342	9,106
CA 315	13	40	18	3	14	1	20	6,261	9,006
CA 319	12	19	11	2	5	1	11	6,096	8,167
CA 322	5	78	4	<1	10	7	30	6,058	8,260
CA 324	18	140	7	1	5	7	30	6,059	8,258
CA 327	9	99	11	1	280	3	20	6,829	9,008
CA 328	6	89	6	<1	<2	3	10	6,804	9,105
CA 330	7	110	5	1	10	3	20	6,833	8,946
CA 331	5	110	5	1	15	3	20	6,835	8,922
CA 332	<4	69	5	<1	6	2	20	6,834	8,880
CA 334	<4	82	15	1	2	2	20	6,809	8,637
CA 337	<4	54	5	<1	19	5	11	6,767	8,432
CA 339	12	61	23	3	<2	3	21	6,587	8,078
CA 340	13	70	6	1	14	1	11	6,261	8,054
CA 342	9	23	17	2	53	1	10	6,455	8,098
CA1000	15	25	24	2	<2	1	23	6,767	5,977
CA1001	13	24	18	2	250	1	23	6,680	5,729
CA1002	10	26	9	1	<2	1	23	6,538	5,605

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
CA1020	5.00	.04	3.00	2.60	.010	.11	.020	.200	27	3	180
CA1021	1.60	.25	.12	.58	.040	.05	.010	.300	19	13	<10
CA1022	.37	.89	.10	.09	.040	.05	.007	.290	21	<2	20
CA1023	4.80	.16	3.80	3.70	.020	.29	.060	.180	29	9	220
CA1024	.26	.15	.06	<.05	.020	.02	<.005	.300	51	17	<10
CA1026	5.40	.05	3.10	2.50	.100	.06	.030	.200	31	7	150
CA1027	6.50	.07	1.90	3.50	.020	.23	.070	.210	19	<2	250
CA1028	8.10	.04	.66	1.50	.020	.03	.030	.350	14	<2	110
CA1029	8.60	.08	.96	.81	.060	.10	.090	.320	6	<2	50
CA1030	6.90	.24	.77	5.20	.210	.55	.030	.300	23	<2	40
CA1031	7.30	.10	.27	4.40	.070	.35	.070	.250	9	<2	20
CA1032	6.90	.10	.45	7.10	.010	.66	.040	.280	7	<2	80
CA1070	6.50	.11	1.00	5.80	.080	.45	.020	.240	13	15	130
CA1071	6.30	.12	2.20	5.60	.030	.56	.010	.230	24	3	90
CA1074	6.30	.13	.82	3.70	.130	.35	.020	.290	11	<2	140
CA1075	4.00	.05	8.10	3.70	.020	.21	.020	.150	34	12	270
CA1076	5.20	.07	2.90	4.20	.020	.29	.020	.190	20	4	110
CA1077	6.20	.12	1.40	5.30	.040	.55	.010	.260	9	<2	110
CA1078	4.30	.07	5.20	3.40	.008	.25	.030	.170	35	23	810
CA1081	5.30	.05	4.00	4.30	.020	.22	.040	.190	13	38	680
CA1082	8.30	.09	1.40	4.70	.020	.28	.060	.270	14	<2	140
CA1083	7.70	.13	.33	3.00	.050	.27	.040	.310	5	<2	40
CA1084	8.80	.24	.31	4.40	.160	.78	.040	.330	10	<2	20
CA1091	10.00	.10	.26	.05	.020	.05	.040	.410	9	8	60
CA1093	.88	.11	1.30	.16	.010	.04	.020	.010	35	180	120
CA1095	5.10	.05	.51	2.30	.030	.08	.020	.240	7	<2	60
CA1096	.18	.03	.05	<.05	.010	.03	<.005	.180	19	7	<10
CA1098	7.00	.36	.47	4.20	.470	.15	.150	.410	13	<2	<10
CA1102	6.08	.15	.63	4.14	.160	.46	.040	.260	24	2	50
CA1104	7.67	.43	1.43	3.24	.570	.82	.050	.290	7	<2	50
CA1109	8.52	.07	1.30	3.29	.020	.58	.110	.220	8	11	70
CA1112	7.33	.20	.68	3.33	.200	.73	.030	.310	<4	<2	100
CA1114	7.25	.14	5.75	2.73	.070	.42	.070	.280	8	<2	220
CA1116	6.83	.42	2.39	3.85	.440	1.06	.070	.300	20	<2	30
CA1119	6.91	2.23	1.66	3.09	.290	.37	.040	.290	25	<2	190
CA1120	6.89	.41	1.77	5.70	.200	1.00	.410	.450	5	<2	130
CA1122	6.35	6.00	.54	2.62	.370	.54	.080	.270	72	<2	60
CA1123	7.62	.63	1.10	3.92	.380	1.16	.140	.320	10	<2	<10
CA1124	7.51	.44	.84	3.80	.290	1.09	.020	.330	12	<2	<10
CA1125	6.89	.40	1.72	3.83	.330	1.13	.030	.280	18	<2	100
CA1126	6.82	.28	.93	3.62	.160	.99	.040	.330	11	<2	50
CA1127	7.40	.41	.49	5.23	.380	1.01	.040	.330	28	<2	10
CA1130	7.87	.13	.11	3.62	.020	.72	.050	.310	9	<2	<10
CA1131	8.26	.27	.53	3.31	.100	.95	.060	.310	24	<2	30
CA1133	16.10	.29	.63	5.24	.120	.69	.390	.230	5	<2	60

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
CA1020	<8	590	1	51	5	3	30	<2	9
CA1021	<8	310	2	14	<1	3	3	<2	6
CA1022	<8	3,000	<1	8	4	2	3	<2	<4
CA1023	<8	95	1	41	3	3	9	<2	12
CA1024	<8	670	2	5	<1	5	2	<2	<4
CA1026	<8	210	2	36	19	3	7	<2	15
CA1027	<8	540	2	36	19	3	9	<2	13
CA1028	<8	130	1	68	5	2	7	<2	21
CA1029	<8	1,000	<1	92	<1	3	5	2	20
CA1030	<8	1,200	1	45	2	3	4	<2	18
CA1031	<8	440	<1	46	<1	3	7	<2	19
CA1032	<8	750	1	68	<1	3	3	<2	17
CA1070	<8	1,300	1	75	2	3	7	<2	15
CA1071	<8	170	1	52	6	3	9	<2	14
CA1074	<8	1,200	1	63	1	3	5	<2	18
CA1075	<8	170	<1	30	5	2	24	<2	5
CA1076	<8	630	1	42	4	3	13	<2	9
CA1077	<8	340	2	48	<1	3	4	<2	15
CA1078	<8	420	<1	44	4	3	16	<2	10
CA1081	<8	300	1	43	18	2	16	<2	12
CA1082	<8	420	3	44	7	3	6	<2	19
CA1083	<8	160	2	58	2	3	7	<2	27
CA1084	<8	140	2	65	2	3	7	<2	21
CA1091	<8	290	2	36	<1	3	2	<2	31
CA1093	60	240	3	9	5	2	110	<2	4
CA1095	<8	870	<1	36	2	2	1	<2	13
CA1096	<8	290	<1	7	<1	2	<1	<2	<4
CA1098	<8	1,300	2	48	2	62	5	<2	18
CA1102	<8	275	1	49	1	2	4	<2	16
CA1104	<8	1,030	<1	120	2	2	5	<2	19
CA1109	<8	294	<1	41	1	4	1	<2	29
CA1112	<8	942	<1	62	3	2	5	<2	19
CA1114	<8	175	2	75	2	1	40	<2	20
CA1116	<8	280	1	53	<1	2	3	<2	17
CA1119	<8	102	1	44	1	2	29	<2	20
CA1120	<8	299	2	55	<1	1	<1	2	19
CA1122	<8	204	1	38	1	2	4	<2	17
CA1123	<8	1,320	1	103	1	2	<1	6	18
CA1124	<8	1,180	1	52	2	2	<1	<2	19
CA1125	<8	405	1	53	8	2	5	<2	16
CA1126	<8	1,140	2	79	1	2	24	<2	19
CA1127	<8	1,320	2	71	2	2	1	<2	18
CA1130	<8	1,100	1	56	1	2	2	<2	18
CA1131	<8	1,600	<1	97	2	1	6	3	18
CA1133	<8	464	2	43	2	2	34	<2	22

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
CA1020	28	9	10	8	22	<2	15	6	230
CA1021	8	6	3	7	6	<2	11	6	80
CA1022	6	3	4	5	6	<2	4	2	46
CA1023	22	7	5	7	18	<2	14	5	130
CA1024	3	4	7	6	<4	<2	7	2	44
CA1026	19	<2	3	8	15	4	15	6	180
CA1027	19	2	2	10	16	3	15	7	89
CA1028	35	7	<2	14	32	<2	18	7	80
CA1029	46	100	<2	22	49	<2	20	7	380
CA1030	25	10	<2	12	15	<2	17	6	150
CA1031	27	8	7	13	18	<2	17	7	130
CA1032	38	9	3	6	26	<2	22	5	160
CA1070	35	23	7	11	37	<2	18	6	120
CA1071	27	12	9	16	24	<2	18	6	110
CA1074	33	17	5	12	32	<2	25	7	120
CA1075	15	22	4	10	17	<2	8	3	85
CA1076	22	20	4	9	23	<2	13	5	90
CA1077	25	10	3	14	24	<2	16	6	120
CA1078	22	11	24	9	28	<2	7	4	130
CA1081	20	5	11	7	26	<2	13	3	99
CA1082	21	8	10	15	25	2	21	9	120
CA1083	28	9	3	13	34	<2	18	6	180
CA1084	38	11	<2	15	29	4	28	11	190
CA1091	24	59	6	20	13	<2	19	7	220
CA1093	4	31	100	<4	6	<2	<4	<2	150
CA1095	18	3	<2	7	20	<2	11	6	73
CA1096	5	2	3	<4	<4	<2	6	<2	17
CA1098	24	33	<2	9	28	<2	<4	8	270
CA1102	25	18	3	9	25	<2	15	6	91
CA1104	62	12	4	11	43	<2	24	8	221
CA1109	26	<2	71	14	27	<2	11	5	352
CA1112	31	9	21	12	30	<2	24	7	137
CA1114	29	9	9	12	41	<2	14	4	247
CA1116	28	21	7	9	22	<2	22	7	73
CA1119	26	13	32	10	25	<2	18	7	178
CA1120	30	11	35	18	29	<2	28	5	244
CA1122	23	17	<2	9	19	<2	15	7	145
CA1123	46	18	<2	9	120	<2	27	7	592
CA1124	27	17	<2	13	28	<2	21	7	105
CA1125	26	19	9	11	24	<2	20	6	85
CA1126	39	19	2	14	40	<2	27	7	90
CA1127	35	11	7	14	36	3	26	7	142
CA1130	27	9	<2	15	27	<2	18	6	93
CA1131	50	7	4	13	53	3	22	8	317
CA1133	21	5	11	11	33	<2	21	12	314

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
CA1020	12	38	13	2	7	1	11	6,321	7,093
CA1021	5	14	5	1	<2	1	23	6,326	7,091
CA1022	<4	7	4	1	2	1	23	6,371	7,082
CA1023	9	27	9	1	3	1	23	6,411	7,068
CA1024	<4	8	5	1	<2	7	73	6,418	7,065
CA1026	9	26	15	2	<2	1	11	6,457	7,033
CA1027	10	19	17	2	13	1	11	6,558	6,919
CA1028	13	10	11	2	12	1	20	6,561	6,913
CA1029	16	27	12	1	<2	1	23	6,370	6,200
CA1030	9	16	11	1	<2	1	23	6,320	6,200
CA1031	10	27	12	1	<2	1	23	6,270	6,200
CA1032	13	25	10	1	<2	1	13	6,220	6,200
CA1070	14	18	15	2	5	1	10	5,775	6,388
CA1071	13	20	14	2	5	1	11	5,846	6,430
CA1074	14	24	13	2	<2	1	10	6,107	6,374
CA1075	7	10	9	1	32	5	11	6,271	6,373
CA1076	10	18	12	2	22	1	11	6,267	6,371
CA1077	12	22	12	2	8	1	10	6,284	6,386
CA1078	9	15	14	2	13	5	11	6,261	6,446
CA1081	9	19	12	2	130	1	11	6,445	6,546
CA1082	11	34	13	2	160	1	10	6,493	6,615
CA1083	13	22	14	2	45	1	20	6,594	6,618
CA1084	10	25	18	2	100	1	20	6,609	6,616
CA1091	7	41	15	3	3	1	20	6,230	5,968
CA1093	<4	6	4	<1	4	-	--	6,233	5,997
CA1095	11	22	6	1	5	1	10	6,577	6,734
CA1096	<4	5	<2	<1	4	1	30	6,370	7,030
CA1098	<4	79	8	1	<2	2	20	7,300	7,800
CA1102	11	20	15	2	5	1	20	5,847	6,224
CA1104	17	36	16	2	5	1	20	5,700	6,000
CA1109	19	69	2	<1	6	1	10	6,237	6,986
CA1112	11	18	19	2	12	1	20	5,816	6,040
CA1114	12	25	15	2	51	1	22	6,600	6,596
CA1116	14	28	11	1	12	1	22	6,587	6,200
CA1119	10	28	13	2	6	1	22	7,032	6,382
CA1120	15	13	38	5	<2	1	22	6,967	6,391
CA1122	11	22	13	1	<2	1	22	7,023	6,174
CA1123	17	26	28	3	238	1	22	6,810	6,075
CA1124	14	26	17	2	31	1	22	6,760	5,850
CA1125	14	23	19	2	8	1	22	6,604	6,302
CA1126	16	24	15	2	15	1	22	6,610	6,398
CA1127	15	30	16	2	29	1	22	6,614	6,492
CA1130	15	24	15	2	7	1	11	6,440	6,800
CA1131	16	18	44	5	29	1	22	5,812	5,840
CA1133	11	39	13	2	2	1	30	6,586	7,115

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
CA1135	6.40	.15	.19	4.15	.180	.34	.070	.290	17	<2	10
CA1136	1.73	.09	32.50	.47	.150	.04	.070	.060	125	<2	800
CA1138	.24	.04	.05	<.05	.009	.02	.005	.170	43	11	<10
CA1139	13.70	.06	.11	4.41	.020	.99	.110	.070	4	9	30
CA1140	.67	.03	8.57	1.92	.010	.02	.030	.230	38	4	510
CA1176	7.97	.51	6.17	4.40	.540	1.15	.040	.330	20	<2	200
CA1177	11.10	.96	1.50	2.51	1.450	.54	.080	1.390	67	<2	40
CA1178	11.40	1.25	1.56	2.28	1.450	.55	.100	1.500	141	<2	20
CA1179	11.40	1.28	1.49	1.96	1.390	.56	.160	1.470	97	<2	30
CA1181	7.76	.29	.38	3.56	.200	.85	.060	.330	25	<2	<10
CA1185	7.44	.09	2.67	5.90	.030	.26	.110	.450	33	18	540
CA2010	7.10	.65	2.90	4.00	.160	3.30	.060	.290	450	<2	<10
CA2012	7.80	1.90	2.00	3.30	.210	2.70	.200	.760	200	<2	<10
CA2014	7.00	.65	2.70	4.00	.170	3.30	.060	.270	380	<2	<10
CA2015	5.80	.36	2.30	4.20	.080	2.80	.010	.170	550	<2	<10
CA2017	7.10	.96	2.40	3.80	.220	3.10	.050	.360	730	<2	<10
CA2020	6.00	.13	.50	4.60	.170	.10	.010	.060	34	<2	30
CA2021	7.60	5.80	9.10	1.30	2.100	2.20	.160	1.200	1,200	<2	<10
CA2030	6.90	1.40	2.50	3.80	.100	2.60	.070	.240	340	<2	<10
CA2031	5.90	1.20	2.20	3.10	.120	2.20	.060	.200	240	<2	<10
CA2032	6.30	1.50	2.30	3.40	.120	2.40	.110	.240	310	<2	<10
CA2033	5.60	1.40	1.70	3.10	.150	2.10	.080	.170	270	<2	<10
CA2034	.83	.09	.44	.14	.050	.03	.020	.008	320	18	<10
CA2035	2.50	.16	1.80	.81	.290	.05	.030	.080	140	11	350
CA2036	6.80	.21	.29	3.70	.270	.09	.060	.170	20	2	10
CA2037	1.10	.08	.24	.77	.080	.03	.007	.005	220	120	<10
CA2039	2.20	.25	4.90	1.60	.180	.12	.110	.920	25	10	480
CA2040	1.70	.25	.96	.70	.120	.03	.020	.090	49	3	290
CA2041	.59	.09	1.50	.37	.030	.04	.020	.060	68	130	80
CA2042	3.30	.27	16.00	1.20	.300	.02	.110	.910	32	5	1,200
CA2043	4.70	.33	3.00	2.20	.310	.04	.050	1.200	26	9	260
CA2044	2.00	.39	.36	.41	.080	.18	.320	2.100	19	2	70
CA2045	6.10	.25	1.00	2.00	.060	.38	.220	.270	21	4	460
CA2051	7.20	1.20	2.00	4.10	.160	2.60	.060	.220	400	<2	<10
CA2052	7.90	2.20	4.10	3.30	.160	3.00	.210	.650	500	<2	20
CA2053	7.40	1.40	2.10	3.80	.050	2.70	.090	.300	630	<2	10
CA2054	7.00	1.30	2.60	4.00	.150	2.50	.080	.240	280	<2	<10
CA2055	6.80	1.20	2.60	3.90	.130	2.40	.070	.230	320	<2	<10
CA2056	7.00	1.30	2.50	3.70	.120	2.60	.080	.250	330	<2	<10
CA2057	7.10	1.10	1.90	3.90	.060	2.40	.070	.290	56	<2	70
CA2156	7.58	1.68	3.05	3.74	.220	2.55	.090	.360	312	<2	<10
CA356	.24	.07	.16	<.05	.010	.02	.020	.240	54	14	10
CA359	7.63	.29	.38	1.43	.010	1.09	.300	.600	14	<2	30
CA378	7.40	.34	9.18	3.81	.430	.06	.140	1.230	41	3	250
G30-440F	11.00	.90	2.44	2.99	.870	.94	.020	.340	210	<2	<10

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
CA1135	<8	945	2	55	<1	1	1	<2	16
CA1136	<8	197	7	22	8	2	8	<2	10
CA1138	<8	1,060	1	11	1	2	3	<2	<4
CA1139	<8	267	<1	53	<1	5	1	<2	22
CA1140	<8	67	<1	31	<1	7	3	<2	23
CA1176	<8	16	2	70	23	2	6	<2	20
CA1177	<8	167	1	125	15	45	30	2	33
CA1178	<8	191	1	79	46	57	112	<2	35
CA1179	<8	400	3	186	19	55	28	3	34
CA1181	<8	1,290	1	112	<1	3	3	2	20
CA1185	<8	35	1	43	9	20	109	<2	16
CA2010	<8	860	3	81	3	4	10	2	20
CA2012	<8	1,200	2	71	9	5	4	<2	19
CA2014	<8	870	2	72	3	3	7	2	20
CA2015	<8	84	5	130	1	4	9	<2	23
CA2017	<8	820	3	86	3	3	9	2	20
CA2020	<8	1,500	1	51	2	2	7	<2	14
CA2021	<8	530	2	42	40	33	150	3	21
CA2030	<8	1,400	2	63	5	2	5	<2	17
CA2031	<8	1,200	2	57	4	2	4	<2	15
CA2032	<8	1,300	2	61	4	2	3	<2	16
CA2033	<8	1,300	2	56	3	2	5	<2	14
CA2034	<8	220	5	<4	4	5	5	<2	<4
CA2035	<8	91	2	13	23	36	14	<2	7
CA2036	<8	1,700	1	65	1	1	4	<2	18
CA2037	<8	340	2	<4	3	4	13	<2	<4
CA2039	9	170	<1	16	4	31	10	<2	13
CA2040	<8	260	<1	12	1	18	7	<2	6
CA2041	<8	250	1	<4	<1	10	5	<2	<4
CA2042	<8	89	1	<4	3	77	110	<2	23
CA2043	<8	260	1	34	2	64	6	<2	20
CA2044	<8	120	2	81	<1	44	9	6	6
CA2045	<8	170	1	38	1	32	3	2	15
CA2051	<8	1,500	3	73	4	2	3	<2	17
CA2052	<8	1,300	2	76	9	4	6	2	19
CA2053	<8	1,400	3	69	5	2	4	<2	17
CA2054	<8	1,400	2	69	5	2	4	<2	19
CA2055	<8	1,400	2	65	5	2	4	<2	18
CA2056	<8	1,400	2	68	4	2	2	<2	17
CA2057	<8	1,400	2	68	4	2	5	<2	19
CA2156	<8	1,260	2	62	5	<1	9	<2	18
CA356	<8	929	<1	34	1	4	4	<2	<4
CA359	<8	154	<1	111	<1	29	2	2	23
CA378	<8	13	1	45	33	26	128	2	22
G30-440F	<8	938	3	60	19	2	12	<2	24

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
CA1135	29	21	<2	8	29	<2	13	7	92
CA1136	10	35	22	<4	19	<2	12	<2	33
CA1138	4	<2	<2	6	9	<2	<4	<2	28
CA1139	18	8	8	7	36	<2	9	6	497
CA1140	13	3	436	8	15	<2	59	<2	200
CA1176	31	17	8	15	34	4	19	8	84
CA1177	61	15	32	19	66	12	19	20	96
CA1178	40	15	12	20	41	22	15	28	102
CA1179	86	19	20	11	104	19	18	26	321
CA1181	52	10	5	8	66	<2	24	7	195
CA1185	18	4	123	11	27	9	12	10	130
CA2010	45	21	<2	5	41	4	16	10	83
CA2012	39	19	<2	10	38	<2	20	12	220
CA2014	39	32	2	7	35	<2	21	10	86
CA2015	66	28	5	15	69	<2	19	3	26
CA2017	46	14	3	15	43	<2	19	11	99
CA2020	28	17	<2	<4	24	<2	11	4	46
CA2021	25	23	<2	<4	33	28	7	29	440
CA2030	37	15	<2	5	33	<2	21	6	140
CA2031	31	18	<2	4	28	<2	15	5	130
CA2032	34	19	<2	9	28	<2	22	7	160
CA2033	31	16	<2	8	26	<2	19	5	140
CA2034	<2	90	<2	<4	<4	12	<4	<2	68
CA2035	7	88	7	<4	6	79	6	4	48
CA2036	34	19	<2	6	33	4	15	6	68
CA2037	<2	100	<2	<4	<4	11	<4	<2	48
CA2039	12	39	<2	5	9	<2	7	13	72
CA2040	7	45	2	<4	5	<2	6	3	51
CA2041	2	66	<2	<4	<4	<2	<4	<2	41
CA2042	3	34	7	8	<4	<2	<4	14	49
CA2043	20	30	<2	8	15	<2	5	16	78
CA2044	31	19	2	12	90	<2	5	19	170
CA2045	18	7	<2	<4	24	2	8	8	99
CA2051	39	24	<2	8	34	2	24	6	130
CA2052	41	11	<2	14	41	<2	20	13	250
CA2053	38	18	<2	12	35	<2	21	7	160
CA2054	36	25	<2	12	34	<2	21	6	130
CA2055	36	20	<2	9	34	<2	23	6	120
CA2056	38	13	<2	9	33	<2	22	7	150
CA2057	36	15	9	15	32	<2	27	7	240
CA2156	37	31	2	13	36	2	21	9	186
CA356	15	<2	27	17	20	<2	5	<2	78
CA359	48	<2	79	15	52	2	17	6	1,190
CA378	16	27	<2	11	29	27	5	25	78
G30-440F	33	17	<2	19	29	4	25	11	115

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
CA1135	13	25	17	2	<2	1	30	6,686	7,555
CA1136	19	66	182	13	36	6	32	6,760	7,800
CA1138	<4	3	3	<1	<2	7	30	6,383	7,144
CA1139	12	105	<2	<1	<2	7	30	6,385	7,046
CA1140	8	18	5	1	<2	7	30	6,436	7,043
CA1176	12	30	38	4	51	1	70	6,553	6,346
CA1177	12	230	45	4	195	4	10	6,549	6,307
CA1178	10	289	14	2	128	4	10	6,543	6,204
CA1179	9	275	22	3	105	4	10	6,537	6,101
CA1181	17	29	11	1	10	1	30	5,865	6,010
CA1185	6	110	18	2	5	3	12	7,100	8,040
CA2010	9	19	41	4	85	4	90	22,200	17,900
CA2012	12	110	43	5	93	4	80	-1,100	12,700
CA2014	9	15	32	3	79	4	90	5,470	15,000
CA2015	15	6	85	9	170	4	90	17,800	14,600
CA2017	10	12	42	5	110	4	90	17,800	14,700
CA2020	10	13	15	1	<2	1	90	7,400	11,400
CA2021	<4	340	29	3	110	4	80	9,000	11,200
CA2030	12	13	35	4	62	1	90	2,500	7,700
CA2031	12	18	33	4	59	1	10	1,550	7,600
CA2032	12	17	38	4	58	1	10	1,800	7,500
CA2033	12	11	30	3	44	1	10	2,100	7,750
CA2034	<4	3	<2	<1	41	1	10	3,100	8,250
CA2035	<4	33	4	<1	84	1	10	3,100	8,250
CA2036	11	23	15	2	<2	1	90	3,500	8,450
CA2037	<4	2	<2	<1	26	6	10	3,350	8,000
CA2039	<4	130	8	2	<2	1	23	4,900	8,700
CA2040	<4	38	4	<1	<2	8	13	5,050	8,200
CA2041	<4	9	<2	<1	<2	8	13	4,450	8,050
CA2042	<4	620	3	1	<2	1	13	5,400	8,350
CA2043	<4	210	6	2	<2	1	13	5,400	8,350
CA2044	<4	160	6	2	<2	1	23	5,600	8,350
CA2045	<4	74	40	3	3	8	13	5,700	7,800
CA2051	21	17	42	5	70	-	--	-1,050	8,200
CA2052	15	110	45	5	100	-	--	-1,150	10,700
CA2053	15	29	39	4	64	-	--	1,250	6,600
CA2054	15	22	38	4	75	-	--	1,950	7,600
CA2055	13	17	36	4	68	-	--	1,900	8,150
CA2056	15	19	40	4	58	-	--	1,300	7,850
CA2057	16	33	30	4	46	-	--	2,750	7,050
CA2156	16	35	34	4	88	4	90	-1,050	13,700
CA356	<4	11	4	<1	<2	6	30	6,390	8,430
CA359	11	81	18	3	<2	1	30	6,518	8,534
CA378	<4	351	12	1	5	3	51	6,692	8,759
G30-440F	19	31	33	4	166	1	99	4,200	7,500

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Al %-s	Ce %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s
G33-260F	7.34	1.17	1.89	3.60	.170	1.94	.030	.330	262	<2	<10
G45-460F	7.25	1.08	2.02	3.71	.240	2.23	.060	.410	143	<2	10
G61-240F	7.48	1.15	1.76	3.98	.150	1.90	.020	.320	259	<2	<10
G61-320F	7.51	1.25	2.00	3.42	.210	1.88	.030	.320	226	<2	10
G66-345F	7.33	1.08	2.07	3.67	.110	1.92	.040	.310	218	<2	<10
G69-300F	7.25	1.29	1.57	3.90	.120	2.08	.070	.280	892	<2	<10
G71-435F	6.69	1.29	2.46	3.49	.180	1.93	.050	.260	815	<2	<10
G72-270F	7.40	1.26	1.72	3.83	.150	2.12	.040	.310	272	<2	<10
G88-415	6.80	.48	1.69	3.75	.210	1.50	.040	.320	94	<2	40
G88-520	6.92	.46	1.06	4.02	.060	2.80	.040	.350	3,170	<2	20
G88-665	6.94	.46	2.74	4.04	.100	2.93	.050	.330	335	<2	<10
MC8-1695	7.57	.20	1.70	1.34	.180	.05	.060	.120	29	<2	50
S437-300	3.47	.07	.90	1.82	.020	.17	.060	.340	9	5	70
S437-895	7.09	.44	1.35	4.08	.280	.12	.120	.550	49	<2	140
S874-335	6.38	.35	1.64	4.73	.130	1.18	.040	.250	27	<2	50
S874-420	6.11	.45	1.97	6.15	.080	.80	.130	.230	24	<2	210
S875-455	6.60	.22	2.78	6.42	.020	.79	.070	.240	19	<2	220
S876-350	5.97	.15	3.03	5.86	.060	.64	.020	.230	212	3	140
S877-495	7.14	.17	1.71	7.04	.010	.67	.080	.260	13	4	190
S879-80	5.28	.10	1.50	5.41	.007	.45	.050	.190	13	<2	90
S923-480	5.53	.38	1.86	4.23	.250	.92	.070	.160	97	<2	120
S925-415	5.92	.29	2.02	4.49	.230	.80	.060	.240	52	<2	70
S927-475	5.91	.48	2.31	5.03	.140	.89	.120	.230	116	<2	110
S929-460	6.32	.41	1.23	5.95	.150	.70	.110	.230	19	<2	140

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Au ppm-s	Ba ppm-s	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s
G33-260F	<8	1,240	3	68	3	2	2	<2	19
G45-460F	<8	1,200	3	65	14	12	22	<2	18
G61-240F	<8	1,180	3	62	3	2	2	<2	19
G61-320F	<8	1,170	3	58	4	5	8	<2	18
G66-345F	<8	1,130	3	68	3	4	4	<2	18
G69-300F	<8	1,290	3	66	9	2	6	<2	18
G71-435F	<8	1,080	3	54	6	4	11	<2	16
G72-270F	<8	1,180	3	64	3	4	3	<2	18
G88-415	<8	1,310	2	68	4	2	2	<2	16
G88-520	<8	928	3	53	2	2	7	<2	21
G88-665	<8	820	3	74	3	1	7	2	20
MC8-1695	<8	106	2	64	4	1	9	<2	17
S437-300	<8	552	1	78	1	3	4	<2	12
S437-895	<8	116	2	52	11	57	32	<2	19
S874-335	<8	153	2	50	6	2	6	<2	15
S874-420	<8	221	3	52	6	3	6	<2	12
S875-455	<8	615	1	46	7	3	7	<2	12
S876-350	<8	155	2	47	9	3	6	<2	13
S877-495	<8	431	1	57	9	2	5	<2	10
S879-80	<8	1,250	3	46	4	2	5	<2	10
S923-480	<8	314	3	55	3	2	5	<2	16
S925-415	<8	257	2	56	4	2	6	<2	14
S927-475	<8	302	3	54	4	2	6	<2	13
S929-460	<8	141	2	57	6	2	6	<2	15

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s
G33-260F	38	12	<2	15	36	<2	26	8	180
G45-460F	35	18	<2	12	38	11	24	9	162
G61-240F	34	8	<2	15	34	<2	27	8	150
G61-320F	33	11	<2	14	30	<2	22	8	195
G66-345F	39	8	<2	13	33	<2	26	8	173
G69-300F	37	8	2	13	34	<2	24	7	159
G71-435F	30	8	<2	10	28	3	22	7	150
G72-270F	37	10	<2	14	33	<2	25	6	168
G88-415	38	5	<2	13	36	<2	24	7	145
G88-520	32	17	6	19	27	<2	17	7	184
G88-665	41	17	<2	17	40	<2	18	10	80
MC8-1695	34	64	<2	9	31	3	22	6	16
S437-300	42	18	4	13	41	<2	13	6	271
S437-895	29	66	<2	13	27	19	8	10	87
S874-335	27	19	7	12	25	2	18	6	268
S874-420	27	31	17	8	27	4	14	6	95
S875-455	25	25	10	10	24	3	16	5	104
S876-350	24	18	12	9	27	2	14	6	86
S877-495	30	31	4	15	31	2	16	5	88
S879-80	24	20	18	6	23	<2	15	3	60
S923-480	29	33	5	8	29	<2	16	5	64
S925-415	30	25	3	7	29	<2	16	6	62
S927-475	29	30	7	9	29	<2	15	6	90
S929-460	30	48	4	9	29	2	13	7	77

TABLE 3. ANALYTICAL RESULTS FOR MAJOR AND MINOR ELEMENTS IN ROCK SAMPLES FROM THE SLEEPER MINE AREA, NEVADA, DETERMINED BY ICP

Sample	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Unit	Altyp	East ft	North ft
G33-260F	17	23	41	5	69	1	99	4,500	7,800
G45-460F	15	56	87	7	104	1	99	4,100	6,600
G61-240F	17	25	42	5	61	1	99	4,000	5,100
G61-320F	18	34	32	4	73	1	99	4,000	5,100
G66-345F	16	35	35	4	52	1	99	4,000	4,800
G69-300F	17	28	39	5	90	1	99	4,000	4,500
G71-435F	15	30	32	4	77	1	99	3,670	4,990
G72-270F	16	26	37	5	64	1	99	3,700	4,200
G88-415	16	23	34	4	55	1	90	4,910	12,300
G88-520	10	21	27	4	37	4	90	4,910	12,300
G88-665	11	11	38	5	92	4	90	4,910	12,300
MC8-1695	12	22	14	2	70	1	10	5,450	8,593
S437-300	16	22	28	3	35	1	10	5,700	8,600
S437-895	5	93	19	2	120	3	90	5,700	8,600
S874-335	15	21	30	3	72	1	11	5,700	4,600
S874-420	9	18	27	3	123	1	11	5,700	4,600
S875-455	12	19	23	3	75	1	10	6,150	4,600
S876-350	10	21	38	3	38	1	11	6,500	4,600
S877-495	14	16	46	4	110	1	11	6,850	4,600
S879-80	10	11	18	2	23	1	11	7,400	4,600
S923-480	13	17	30	3	67	1	11	4,700	3,800
S925-415	13	20	33	4	65	1	11	5,300	3,800
S927-475	12	19	28	3	91	1	11	5,900	3,800
S929-460	12	24	26	3	99	1	11	6,200	3,800

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM THE SLEEPER MINE AREA, NEVADA

[Analyses under headings with "/p" are by ICP-AES using partial digestion; other analyses are by methods described in text; N, not detected; <, detected but below the limit of determination shown; --, not analyzed; unit code explained in table 2.]

Sample	Ag/p ppm	As/p ppm	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm
CA 100	.360	14.00	N	N	N	250.00	.59	3.80
CA 101	15.000	240.00	.27	N	N	95.00	3.90	7.60
CA 102	2.900	460.00	N	N	N	6.30	230.00	1.80
CA 103	38.000	290.00	1.10	N	.046	200.00	48.00	3.80
CA 104	38.000	320.00	.45	N	.047	49.00	12.00	5.60
CA 105	1.700	40.00	N	N	N	3.30	8.10	1.50
CA 106	7.200	170.00	N	N	N	5.00	100.00	8.40
CA 107	29.000	330.00	.78	N	.290	75.00	110.00	4.10
CA 108	4.500	220.00	N	N	N	5.10	120.00	2.60
CA 109	1.100	38.00	.26	N	N	6.70	8.20	2.60
CA 110	.670	150.00	N	N	N	33.00	1.70	1.20
CA 111	.300	93.00	N	N	N	14.00	4.30	1.90
CA 112	.170	12.00	N	N	N	3.30	2.00	4.10
CA 113	.890	110.00	N	N	N	8.70	1.60	5.20
CA 114	8.600	380.00	.26	N	.069	62.00	21.00	6.30
CA 115	.340	100.00	N	N	N	23.00	2.00	19.00
CA 116	2.400	440.00	.15	N	.300	6.60	6.60	12.00
CA 117	6.600	250.00	.72	N	.130	23.00	10.00	2.20
CA 118	460.000	210.00	3.30	N	.190	50.00	56.00	2.80
CA 119	7.800	180.00	N	N	N	34.00	19.00	5.90
CA 120	150.000	290.00	1.30	N	N	15.00	20.00	4.90
CA 121	6.300	200.00	N	N	N	41.00	6.70	5.30
CA 122	1.200	130.00	N	N	.033	390.00	7.70	3.20
CA 124	4.900	1,100.00	1.70	N	N	17.00	18.00	2.50
CA 125	4.700	660.00	.22	N	N	27.00	10.00	4.00
CA 126	76.000	590.00	.36	N	.068	200.00	140.00	2.50
CA 128	.810	7.90	N	N	N	.58	.56	2.30
CA 129	.590	27.00	N	N	N	2.40	2.80	2.80
CA 130	3.100	46.00	N	N	N	13.00	57.00	1.80
CA 131A	.570	110.00	N	N	2.100	42.00	35.00	5.50
CA 131B	.890	110.00	N	N	1.100	31.00	53.00	4.30
CA 132	.059	27.00	N	N	N	1.80	1.10	1.90
CA 133	.470	86.00	N	N	N	5.90	2.00	6.40
CA 134	N	53.00	N	N	N	6.80	.42	2.80
CA 135	.063	580.00	N	N	N	23.00	4.20	N
CA 136	150.000	140.00	290.00	N	N	19.00	9.80	.89
CA 137	.390	1,300.00	1.60	N	.190	180.00	210.00	2.00
CA 138	.095	130.00	N	N	N	13.00	5.50	.68
CA 139	20.000	470.00	N	N	2.000	10.00	180.00	3.70
CA 140	2.000	180.00	N	N	N	31.00	2.60	1.80
CA 141	.680	260.00	N	N	N	11.00	68.00	5.50
CA 142	.240	140.00	N	N	7.000	32.00	13.00	5.70
CA 143	.190	21.00	N	N	N	7.80	.76	6.50
CA 144	N	130.00	N	N	N	5.10	3.10	2.80
CA 145	.047	22.00	N	N	N	6.10	.59	3.70

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Sb/p ppm	Zn/p ppm	Hg ppm	Se ppm	Te ppm	Tl ppm	W ppm	Au ppm	Se ppm-x	Unit
CA 100	3.70	N	--	--	--	--	--	--	13	2
CA 101	31.00	9.200	2.20	10.0	.65	9.70	2.5	.45	21	5
CA 102	120.00	9.400	--	--	--	--	--	--	12	7
CA 103	91.00	5.600	4.00	.0	.60	10.00	1.5	1.30	35	5
CA 104	61.00	8.500	1.40	8.0	.45	8.20	1.5	.65	18	5
CA 105	6.20	4.800	--	--	--	--	--	--	<10	2
CA 106	67.00	3.000	--	--	--	--	--	--	21	2
CA 107	100.00	40.000	10.00	9.0	3.80	22.00	2.5	.90	23	5
CA 108	37.00	1.800	--	--	--	--	--	--	13	2
CA 109	16.00	.740	--	--	--	--	--	--	<10	2
CA 110	15.00	3.200	--	--	--	--	--	--	18	2
CA 111	10.00	5.300	--	--	--	--	--	--	10	2
CA 112	15.00	2.000	N	.1	<.05	1.40	4.5	<.05	<10	3
CA 113	9.60	3.900	.58	1.0	<.05	2.30	6.5	<.05	<10	3
CA 114	46.00	8.500	1.90	6.0	.20	2.20	19.0	.35	11	5
CA 115	5.70	11.000	--	--	--	--	--	--	--	2
CA 116	35.00	45.000	--	--	--	--	--	--	--	1
CA 117	80.00	20.000	1.60	9.0	.65	13.00	12.0	1.00	18	2
CA 118	190.00	30.000	.0	15.0	8.60	10.00	2.0	2.10	75	5
CA 119	64.00	3.000	1.00	7.0	.55	6.30	3.5	.05	11	2
CA 120	83.00	7.100	--	--	--	--	--	--	37	2
CA 121	20.00	5.500	1.00	5.4	.25	9.90	1.5	.10	<10	2
CA 122	24.00	.840	--	--	--	--	--	--	13	2
CA 124	56.00	11.000	1.00	.0	.20	7.40	2.0	1.10	32	2
CA 125	53.00	3.300	1.60	.0	.30	7.40	4.5	.40	39	5
CA 126	130.00	8.800	.0	.0	.20	20.00	1.5	.75	43	5
CA 128	8.90	1.400	1.20	<.1	<.05	.25	7.5	.25	<10	7
CA 129	32.00	6.100	--	--	--	--	--	--	--	1
CA 130	69.00	1.900	--	--	--	--	--	--	12	1
CA 131A	38.00	110.000	--	--	--	--	--	--	--	3
CA 131B	33.00	170.000	--	--	--	--	--	--	<10	3
CA 132	92.00	.630	--	--	--	--	--	--	--	3
CA 133	11.00	3.400	.32	1.9	<.05	4.10	3.5	.05	<10	1
CA 134	28.00	4.300	--	--	--	--	--	--	--	3
CA 135	29.00	11.000	--	--	--	--	--	--	0	3
CA 136	110.00	7.900	.0	.1	1.90	.60	2.0	40.00	12	6
CA 137	750.00	58.000	--	--	--	--	--	--	--	3
CA 138	14.00	.890	--	--	--	--	--	--	--	3
CA 139	64.00	45.000	2.40	.0	.55	11.00	6.5	.40	11	2
CA 140	13.00	.670	--	--	--	--	--	--	--	3
CA 141	26.00	1.300	--	--	--	--	--	--	<10	2
CA 142	33.00	270.000	--	--	--	--	--	--	--	3
CA 143	4.90	3.400	--	--	--	--	--	--	--	3
CA 144	63.00	.690	--	--	--	--	--	--	<10	3
CA 145	17.00	3.300	--	--	--	--	--	--	<10	3

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Ag/p ppm	As/p ppm	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm
CA 146	.210	88.00	N	N	.045	41.00	4.50	6.60
CA 147	3.100	230.00	N	N	N	92.00	4.70	1.60
CA 149	.800	700.00	N	N	N	25.00	47.00	3.90
CA 150	5.900	130.00	N	N	N	16.00	1.50	3.90
CA 151	.130	49.00	N	N	N	27.00	.60	7.40
CA 152	2.200	500.00	.44	N	.120	15.00	19.00	3.90
CA 153	.190	110.00	.20	N	N	4.20	29.00	.65
CA 154A	1.600	280.00	.35	N	N	6.00	1.90	2.30
CA 154B	1.100	150.00	.65	N	N	1.60	1.00	1.20
CA 155	.066	840.00	N	N	.250	33.00	350.00	2.90
CA 156	7.500	210.00	1.80	N	N	2.80	3.60	1.90
CA 157	.200	130.00	.20	N	N	2.50	1.60	2.50
CA 159	N	19.00	N	N	N	1.70	.67	1.20
CA 160	.055	18.00	N	N	N	1.50	.69	1.20
CA 161	.110	240.00	N	N	.062	1.00	3.10	1.80
CA 162	N	68.00	N	N	N	2.40	1.90	3.00
CA 163	.077	56.00	N	N	N	1.10	1.60	1.50
CA 164	.074	150.00	N	N	N	1.40	6.90	1.10
CA 165	N	240.00	N	N	.063	6.10	14.00	3.70
CA 166	N	38.00	N	N	N	.84	1.50	3.90
CA 167	N	81.00	N	N	N	2.10	11.00	8.20
CA 169	.110	43.00	N	N	N	1.70	4.10	3.40
CA 170	.180	64.00	.22	N	.059	13.00	4.40	4.60
CA 171	N	54.00	N	1.00	N	1.90	18.00	6.80
CA 172	N	73.00	N	N	N	2.00	86.00	6.00
CA 173	.230	77.00	N	.75	N	1.10	23.00	3.40
CA 174	N	260.00	.31	N	N	1.40	13.00	11.00
CA 175	N	32.00	N	N	.039	1.80	3.00	3.20
CA 176	N	51.00	N	N	.170	3.40	2.40	2.00
CA 178	--	--	--	--	--	--	--	--
CA 179	N	10.00	N	N	N	.92	.77	1.50
CA 180	N	100.00	N	N	.080	4.20	2.30	1.10
CA 181	N	77.00	N	N	.052	2.20	4.00	2.30
CA 182	.110	74.00	N	N	.052	13.00	12.00	1.50
CA 183	.074	110.00	N	N	.092	3.90	18.00	1.70
CA 184	N	16.00	N	N	.990	1.70	1.50	1.70
CA 185	N	1.70	N	N	N	.88	.56	1.20
CA 186	N	50.00	N	N	N	1.60	4.80	.96
CA 187	.160	170.00	N	N	N	.63	21.00	5.30
CA 187B	N	55.00	N	.80	N	.26	16.00	1.90
CA 189	.160	420.00	N	2.40	.045	1.40	14.00	120.00
CA 190	.540	21.00	.67	N	N	7.40	3.80	6.60
CA 191	.120	72.00	N	N	N	.67	14.00	1.20
CA 192	1.600	770.00	N	.78	.200	4.20	25.00	3.30
CA 193	20.000	1,000.00	1.30	N	.310	15.00	680.00	4.00

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Sb/p ppm	Zn/p ppm	Hg ppm	Se ppm	Te ppm	Tl ppm	W ppm	Au ppm	Se ppm-x	Unit
CA 146	49.00	9.900	--	--	--	--	--	--	--	3
CA 147	16.00	1.600	--	--	--	--	--	--	--	3
CA 149	570.00	16.000	--	--	--	--	--	--	23	3
CA 150	15.00	3.900	--	--	--	--	--	--	16	3
CA 151	6.30	4.500	--	--	--	--	--	--	--	3
CA 152	210.00	9.700	--	--	--	--	--	--	--	1
CA 153	46.00	11.000	--	--	--	--	--	--	<10	7
CA 154A	16.00	4.300	1.60	5.5	<.05	3.00	11.0	.55	13	5
CA 154B	22.00	1.000	.20	1.3	<.05	2.40	13.0	.90	<10	2
CA 155	5,100.00	72.000	--	--	--	--	--	--	--	1
CA 156	250.00	1.600	5.50	4.2	<.05	2.90	11.0	2.30	<10	5
CA 157	21.00	3.700	--	--	--	--	--	--	--	1
CA 159	28.00	6.700	--	--	--	--	--	--	<10	1
CA 160	19.00	3.400	--	--	--	--	--	--	--	1
CA 161	140.00	3.100	.0	12.0	<.05	5.10	12.0	<.05	38	1
CA 162	10.00	1.400	4.40	1.5	<.05	10.00	8.0	.20	<10	1
CA 163	25.00	1.700	--	--	--	--	--	--	--	1
CA 164	80.00	3.200	--	--	--	--	--	--	--	1
CA 165	290.00	30.000	--	--	--	--	--	--	<10	1
CA 166	22.00	2.000	--	--	--	--	--	--	<10	1
CA 167	53.00	7.700	--	--	--	--	--	--	--	1
CA 169	19.00	2.800	--	--	--	--	--	--	--	1
CA 170	36.00	110.000	--	--	--	--	--	--	<10	1
CA 171	63.00	27.000	--	--	--	--	--	--	--	1
CA 172	170.00	12.000	--	--	--	--	--	--	<10	1
CA 173	36.00	3.000	--	--	--	--	--	--	--	1
CA 174	46.00	3.100	--	--	--	--	--	--	--	7
CA 175	46.00	25.000	--	--	--	--	--	--	--	1
CA 176	120.00	24.000	--	--	--	--	--	--	--	1
CA 178	--	--	--	--	--	--	--	--	12	1
CA 179	4.70	9.900	--	--	--	--	--	--	<10	7
CA 180	330.00	70.000	--	--	--	--	--	--	--	7
CA 181	240.00	10.000	--	--	--	--	--	--	<10	7
CA 182	57.00	6.400	7.20	18.0	<.05	2.30	27.0	<.05	65	1
CA 183	22.00	7.700	6.60	7.0	<.05	2.90	30.0	<.05	13	1
CA 184	10.00	24.000	--	--	--	--	--	--	<10	1
CA 185	3.50	6.000	--	--	--	--	--	--	--	1
CA 186	6.30	12.000	--	--	--	--	--	--	--	1
CA 187	19.00	1.500	--	--	--	--	--	--	<10	1
CA 187B	110.00	1.300	--	--	--	--	--	--	--	1
CA 189	260.00	14.000	--	--	--	--	--	--	19	1
CA 190	79.00	2.100	--	--	--	--	--	--	<10	1
CA 191	190.00	4.100	--	--	--	--	--	--	34	7
CA 192	300.00	38.000	2.20	.0	<.05	12.00	6.0	<.05	86	7
CA 193	130.00	20.000	9.20	.0	.60	50.00	2.0	2.70	22	2

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Ag/p ppm	As/p ppm	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm
CA 194	1.600	110.00	N	N	.042	3.80	19.00	5.80
CA 206	.300	160.00	N	N	N	12.00	9.60	2.60
CA 208	9.900	710.00	.21	N	N	430.00	21.00	5.60
CA 209	23.000	370.00	1.40	N	.036	240.00	11.00	2.80
CA 211	8.800	410.00	.18	N	.540	28.00	20.00	2.50
CA 216	1.500	50.00	N	N	N	1.80	3.00	1.30
CA 217	13.000	160.00	10.00	N	.044	16.00	9.60	3.30
CA 221	.680	130.00	N	N	N	3.80	9.10	3.80
CA 223	N	64.00	N	N	N	1.20	95.00	10.00
CA 226	N	37.00	N	N	.043	1.80	2.10	1.70
CA 227	N	51.00	N	N	.069	2.50	1.80	3.00
CA 228	N	190.00	N	N	.062	3.80	7.90	4.10
CA 229	N	65.00	N	N	N	2.80	4.10	2.60
CA 230	N	130.00	N	N	N	.94	7.70	N
CA 256	--	--	--	--	--	--	--	--
CA 270	--	--	--	--	--	--	--	--
CA 274	--	--	--	--	--	--	--	--
CA 276	--	--	--	--	--	--	--	--
CA 279	--	--	--	--	--	--	--	--
CA 280	--	--	--	--	--	--	--	--
CA 282	--	--	--	--	--	--	--	--
CA 287	--	--	--	--	--	--	--	--
CA1000	N	6.90	N	N	N	1.60	1.40	2.80
CA1001	N	1.70	N	N	.170	2.60	1.00	.68
CA1002	N	32.00	N	N	N	2.30	2.50	3.60
CA1020	--	--	--	--	--	--	--	--
CA1021	1.600	5.60	N	N	N	.28	3.20	2.80
CA1022	.120	2.90	N	N	N	.76	.71	2.30
CA1023	--	--	--	--	--	--	--	--
CA1026	--	--	--	--	--	--	--	--
CA1028	.140	35.00	N	N	N	2.20	.63	N
CA1029	N	17.00	N	N	N	1.60	.70	2.20
CA1030	N	14.00	N	N	N	2.30	.51	1.10
CA1031	N	7.60	.17	N	N	1.20	.31	3.60
CA1032	.140	36.00	N	N	N	1.40	1.90	2.30
CA2010	N	2.30	N	N	.060	6.60	1.40	2.90
CA2012	N	1.70	N	N	.072	3.40	.59	2.20
CA2014	N	1.70	N	N	.037	6.10	1.60	3.20
CA2015	N	N	N	N	.089	1.60	.13	1.10
CA2017	N	.94	N	N	.170	3.80	.36	1.70
CA2020	.980	30.00	N	N	N	5.20	1.40	8.90
CA2021	.063	2.30	N	N	.130	140.00	.94	2.80
CA2030	N	2.60	N	N	.031	2.50	.27	.95
CA2031	N	N	N	N	.048	2.20	.40	.78
CA2034	16.000	N	N	N	.085	3.10	.55	.65

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Sb/p ppm	Zn/p ppm	Hg ppm	Se ppm	Te ppm	Tl ppm	W ppm	Au ppm	Se ppm-x	Unit
CA 194	30.00	6.400	.44	4.0	.05	9.20	2.0	.05	<10	2
CA 206	33.00	6.000	--	--	--	--	--	--	--	3
CA 208	52.00	3.700	2.40	.0	.60	7.00	21.0	.45	33	3
CA 209	120.00	8.000	1.80	.0	<.05	9.20	6.5	2.00	50	3
CA 211	57.00	27.000	3.20	.0	.25	11.00	9.5	.50	10	3
CA 216	43.00	1.400	--	--	--	--	--	--	--	1
CA 217	270.00	7.400	1.90	6.0	.15	3.80	9.5	5.30	15	1
CA 221	42.00	8.000	--	--	--	--	--	--	--	1
CA 223	220.00	2.600	--	--	--	--	--	--	10	1
CA 226	6.30	17.000	--	--	--	--	--	--	<10	1
CA 227	2.40	110.000	--	--	--	--	--	--	39	1
CA 228	8.90	31.000	--	--	--	--	--	--	--	1
CA 229	1.20	22.000	--	--	--	--	--	--	13	1
CA 230	29.00	6.600	--	--	--	--	--	--	<10	1
CA 256	--	--	--	--	--	--	--	--	75	2
CA 270	--	--	--	--	--	--	--	--	10	6
CA 274	--	--	--	--	--	--	--	--	11	3
CA 276	--	--	--	--	--	--	--	--	68	3
CA 279	--	--	--	--	--	--	--	--	30	2
CA 280	--	--	--	--	--	--	--	--	46	1
CA 282	--	--	--	--	--	--	--	--	18	1
CA 287	--	--	--	--	--	--	--	--	15	2
CA1000	4.80	.390	--	--	--	--	--	--	--	1
CA1001	11.00	94.000	--	--	--	--	--	--	--	1
CA1002	12.00	.240	--	--	--	--	--	--	--	1
CA1020	--	--	--	--	--	--	--	--	11	1
CA1021	68.00	.079	--	--	--	--	--	--	<10	1
CA1022	33.00	.530	--	--	--	--	--	--	<10	1
CA1023	--	--	--	--	--	--	--	--	12	1
CA1026	--	--	--	--	--	--	--	--	14	1
CA1028	13.00	2.200	--	--	--	--	--	--	15	1
CA1029	26.00	.340	--	--	--	--	--	--	--	1
CA1030	30.00	1.200	--	--	--	--	--	--	--	1
CA1031	7.10	.570	--	--	--	--	--	--	--	1
CA1032	270.00	.360	--	--	--	--	--	--	--	1
CA2010	N	58.000	--	--	--	--	--	--	--	4
CA2012	1.10	43.000	--	--	--	--	--	--	--	4
CA2014	N	51.000	--	--	--	--	--	--	--	4
CA2015	N	11.000	--	--	--	--	--	--	--	4
CA2017	N	39.000	--	--	--	--	--	--	--	4
CA2020	6.60	N	--	--	--	--	--	--	--	1
CA2021	N	51.000	--	--	--	--	--	--	--	4
CA2030	.67	37.000	--	--	--	--	--	--	--	1
CA2031	3.10	47.000	.0	<.1	<.05	.70	1.5	<.05	<10	1
CA2034	.78	33.000	N	.2	<.05	.15	<.5	.20	<10	1

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Ag/p ppm	As/p ppm	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm
CA2035	12.000	320.00	N	N	.260	12.00	5.20	13.00
CA2036	1.900	7.90	N	N	N	1.90	.49	14.00
CA2037	140.000	N	.56	N	.034	9.70	.16	N
CA2039	--	--	--	--	--	--	--	--
CA2040	2.200	290.00	N	N	N	5.80	2.10	4.00
CA2041	150.000	77.00	.23	N	N	3.50	1.20	2.10
CA2042	2.500	1,200.00	.77	N	N	100.00	6.20	2.90
CA2044	.470	34.00	N	N	N	3.00	1.10	5.60
CA2045	3.200	470.00	.28	N	N	1.40	1.70	5.80
1025-725	.110	5.30	N	N	.140	18.00	2.30	12.00
1025-805	.090	N	N	.63	.074	120.00	1.30	3.80
1025-990	.057	N	N	N	.042	57.00	.68	5.70
10251705	2.300	150.00	N	N	.085	15.00	1.50	23.00
10251765	1.100	230.00	N	N	.096	50.00	.49	7.30
10251790	.500	86.00	N	N	.069	8.10	.27	13.00
1026-915	.270	21.00	N	N	.093	120.00	2.40	7.10
1027-375	.049	29.00	N	N	.160	2.60	.73	5.40
1027-510	.130	17.00	N	N	.140	4.50	.72	4.60
1029-425	.096	45.00	N	N	.110	5.30	1.70	11.00
1030-465	.096	69.00	N	N	.110	4.30	8.60	6.70
1030-855	.280	91.00	N	N	.045	4.80	15.00	11.00
1076-300	.110	79.00	N	N	.210	3.90	33.00	7.00
1077-285	.065	49.00	N	.80	N	1.10	6.10	10.00
1100-580	3.300	190.00	.43	N	.190	4.00	25.00	9.70
1102-365	.680	200.00	N	N	.120	2.60	27.00	8.90
1102-595	.650	48.00	N	N	.150	4.70	2.00	8.20
1126-595	.120	24.00	N	N	.120	25.00	2.50	14.00
1126-630	.076	18.00	N	N	.200	7.50	7.80	20.00
1126-830	N	.88	N	N	.100	28.00	1.00	3.50
11261205	N	N	N	N	N	29.00	.34	2.60
11262095	.081	N	N	N	.096	5.40	.77	14.00
11262125	.059	N	N	N	.063	4.30	1.10	13.00
11271290	.074	2.60	N	N	.068	36.00	.69	4.10
11271515	.099	1.40	N	N	.086	35.00	.91	4.80
1129-960	.120	3.80	N	N	.072	130.00	1.20	2.60
11301560	3.000	390.00	N	4.20	.180	10.00	.92	25.00
S437-300	1.400	28.00	.33	N	N	1.60	1.20	7.00
S437-895	1.800	130.00	N	N	.087	29.00	.91	10.00
S874-335	.160	43.00	N	N	.190	4.50	8.80	6.80
S874-420	1.800	170.00	N	N	.079	4.20	18.00	9.00
S875-455	1.100	180.00	.17	N	.120	4.10	11.00	11.00
S876-350	2.300	120.00	N	N	.200	4.30	15.00	6.50
S877-495	3.300	180.00	.17	N	.620	3.60	4.50	11.00
S879-80	1.400	78.00	N	N	.120	3.30	18.00	7.60
S923-480	.140	100.00	N	N	.240	4.00	6.30	6.30

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Sb/p ppm	Zn/p ppm	Hg ppm	Se ppm	Te ppm	Tl ppm	W ppm	Au ppm	Se ppm-x	Unit
CA2035	77.00	76.000	N	4.0	<.05	.30	1.5	.10	<10	1
CA2036	3.60	.120	--	--	--	--	--	--	--	1
CA2037	20.00	19.000	.0	4.8	.05	.25	<.5	.90	14	6
CA2039	--	--	--	--	--	--	--	--	37	1
CA2040	73.00	1.500	.72	3.3	<.05	.85	1.5	<.05	15	8
CA2041	120.00	.620	.0	3.8	.10	.45	1.0	.20	17	8
CA2042	160.00	1.400	.20	.0	<.05	1.40	13.0	1.30	58	1
CA2044	40.00	.750	--	--	--	--	--	--	<10	1
CA2045	29.00	2.300	.12	3.0	.65	1.20	7.0	.40	11	8
1025-725	1.80	34.000	--	--	--	--	--	--	--	1
1025-805	5.90	68.000	--	--	--	--	--	--	--	4
1025-990	.62	37.000	--	--	--	--	--	--	--	4
10251705	28.00	42.000	--	--	--	--	--	--	--	4
10251765	23.00	20.000	--	--	--	--	--	--	--	4
10251790	9.70	19.000	--	--	--	--	--	--	--	8
1026-915	14.00	92.000	--	--	--	--	--	--	--	3
1027-375	33.00	55.000	--	--	--	--	--	--	--	1
1027-510	11.00	45.000	--	--	--	--	--	--	--	1
1029-425	26.00	52.000	--	--	--	--	--	--	--	1
1030-465	45.00	110.000	--	--	--	--	--	--	--	1
1030-855	54.00	97.000	--	--	--	--	--	--	--	1
1076-300	28.00	39.000	--	--	--	--	--	--	--	1
1077-285	13.00	1.500	--	--	--	--	--	--	--	1
1100-580	77.00	250.000	--	--	--	--	--	--	--	1
1102-365	39.00	220.000	--	--	--	--	--	--	--	1
1102-595	19.00	64.000	--	--	--	--	--	--	--	1
1126-595	2.20	47.000	--	--	--	--	--	--	--	1
1126-630	23.00	10.000	--	--	--	--	--	--	--	1
1126-830	13.00	60.000	--	--	--	--	--	--	--	3
11261205	N	33.000	--	--	--	--	--	--	--	4
11262095	N	34.000	--	--	--	--	--	--	--	4
11262125	N	25.000	--	--	--	--	--	--	--	4
11271290	4.80	66.000	--	--	--	--	--	--	--	4
11271515	2.00	63.000	--	--	--	--	--	--	--	4
1129-960	8.10	73.000	--	--	--	--	--	--	--	4
11301560	19.00	44.000	--	--	--	--	--	--	--	1
S437-300	3.90	25.000	--	--	--	--	--	--	--	1
S437-895	20.00	100.000	--	--	--	--	--	--	--	3
S874-335	20.00	57.000	--	--	--	--	--	--	--	1
S874-420	23.00	97.000	--	--	--	--	--	--	--	1
S875-455	34.00	56.000	--	--	--	--	--	--	--	1
S876-350	140.00	26.000	--	--	--	--	--	--	--	1
S877-495	21.00	69.000	--	--	--	--	--	--	--	1
S879-80	18.00	16.000	--	--	--	--	--	--	--	1
S923-480	310.00	49.000	--	--	--	--	--	--	--	1

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Ag/p ppm	As/p ppm	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm
S925-415	.130	65.00	N	N	.110	4.60	3.50	13.00
S927-475	1.000	88.00	N	N	.110	4.30	7.60	9.20
S929-460	1.500	140.00	N	N	.066	4.60	5.10	11.00

TABLE 4. ANALYTICAL RESULTS FOR MINOR ELEMENTS IN SAMPLES FROM SLEEPER MINE AREA, NEVADA --Continued

Sample	Sb/p ppm	Zn/p ppm	Hg ppm	Se ppm	Te ppm	Tl ppm	W ppm	Au ppm	Se ppm-x	Unit
S925-415	26.00	52.000	--	--	--	--	--	--	--	1
S927-475	23.00	80.000	--	--	--	--	--	--	--	1
S929-460	18.00	87.000	--	--	--	--	--	--	--	1

TABLE 5. ANALYTICAL RESULTS FOR TRACE ELEMENTS IN SAMPLES FROM THE SLEEPER MINE AREA, NEVADA

[Th and U determined by delayed neutron activation; all others by energy dispersive XRF]

[<, detected but below the limit of determination shown; --, not analyzed]

Sample	Nb ppm	Rb ppm	Sr ppm	Zr ppm	Y ppm	Ba ppm	Ce ppm	La ppm	Cu ppm	Ni ppm	Zn ppm	Cr ppm	Th ppm/n	U ppm/n
CA 100	26	138	305	347	94	386	65	27	132	5	19	31	10.70	7.69
CA 102	<10	110	177	61	8	602	36	11	12	7	48	<20	<3.60	6.45
CA 105	14	151	71	164	18	666	34	10	<2	<5	17	31	5.42	1.97
CA 106	<10	125	108	147	12	1,070	58	34	<2	<5	9	28	<3.90	8.88
CA 108	15	123	142	137	15	1,270	45	17	8	<5	18	43	<5.00	14.60
CA 109	15	57	92	176	18	130	32	13	20	<5	19	93	<4.50	11.00
CA 110	13	85	86	147	28	837	43	23	41	<5	18	100	<3.60	7.85
CA 111	20	81	220	191	17	777	123	35	29	7	30	233	<4.00	8.34
CA 115	<10	249	2,560	307	43	1,030	77	36	14	22	22	69	--	--
CA 116	15	229	63	193	40	1,430	58	21	7	<5	68	<20	11.00	10.00
CA 120	11	166	163	160	16	1,020	34	30	12	10	28	57	<4.30	10.60
CA 122	<10	143	201	186	14	789	43	27	452	11	20	53	6.90	6.56
CA 129	12	187	201	235	20	1,000	35	27	14	<5	30	<20	--	--
CA 130	11	20	305	226	17	897	57	28	15	<5	10	<20	14.50	5.39
CA 131A	21	221	187	245	54	605	61	30	31	156	87	222	--	--
CA 131B	18	177	171	186	40	598	57	34	16	114	98	199	<7.80	30.30
CA 132	23	120	25	272	26	422	45	27	3	<5	14	178	--	--
CA 134	27	184	83	240	27	1,300	50	27	11	<5	17	246	--	--
CA 135	<10	22	1,130	49	<2	144	18	<2	35	53	91	83	<3.40	7.67
CA 137	<10	61	2,470	229	7	398	68	27	192	25	80	88	--	--
CA 138	10	68	2,120	313	9	761	54	20	141	<5	19	110	--	--
CA 140	17	154	157	147	24	1,080	54	14	35	15	16	188	--	--
CA 141	14	145	118	174	16	950	68	27	10	<5	14	94	<3.70	7.53
CA 142	21	136	139	196	63	863	48	27	24	249	294	325	--	--
CA 143	21	251	18	255	32	717	81	46	11	34	19	310	--	--
CA 144	17	242	28	174	30	247	45	24	4	9	17	247	4.30	2.27
CA 145	24	206	72	276	27	1,250	68	28	12	<5	21	286	4.20	2.94
CA 146	18	67	249	195	17	811	64	22	41	<5	26	212	--	--
CA 147	17	143	223	155	18	967	28	21	98	17	20	181	--	--
CA 149	10	139	605	97	34	1,220	160	59	38	22	27	119	<4.40	10.20
CA 150	11	148	613	214	16	1,360	47	30	23	7	24	58	4.60	3.51
CA 151	13	81	412	252	28	543	70	34	132	11	63	99	--	--
CA 152	12	141	681	265	16	1,770	64	29	28	5	27	<20	--	--
CA 153	<10	85	56	75	10	146	28	11	9	<5	54	<20	7.03	1.92
CA 155	16	332	229	265	37	560	50	21	42	23	107	<20	--	--
CA 157	18	213	170	249	117	1,170	73	23	<2	<5	13	<20	14.60	10.30
CA 159	17	260	259	280	45	1,560	58	27	16	<5	33	<20	18.60	7.30
CA 160	13	313	148	298	33	1,300	57	30	6	<5	20	<20	--	--
CA 163	15	174	189	239	46	1,060	61	37	4	<5	17	<20	13.60	6.56
CA 164	14	38	88	229	10	604	34	25	3	<5	17	<20	--	--
CA 165	<10	61	1,730	176	4	869	29	19	14	6	72	<20	15.70	2.29
CA 166	16	227	212	278	30	1,740	77	39	4	<5	26	<20	20.00	8.85
CA 167	21	175	204	291	25	993	54	23	4	<5	26	<20	--	--
CA 169	13	173	105	278	21	1,040	47	17	<2	<5	22	<20	16.50	11.60
CA 170	<10	37	632	183	19	794	64	32	20	13	179	<20	15.10	3.81

TABLE 5. ANALYTICAL RESULTS FOR TRACE ELEMENTS IN SLEEPER SAMPLES--Continued

Sample	Nb ppm	Rb ppm	Sr ppm	Zr ppm	Y ppm	Ba ppm	Ce ppm	La ppm	Cu ppm	Ni ppm	Zn ppm	Cr ppm	Th ppm/n	U ppm/n
CA 171	14	180	192	272	27	789	45	24	7	<5	59	<20	--	--
CA 172	22	60	204	269	46	710	67	22	6	<5	36	<20	22.00	6.80
CA 173	17	38	723	262	22	1,560	154	78	<2	<5	28	<20	--	--
CA 174	<10	44	1,430	69	<2	1,520	89	45	3	<5	39	<20	--	--
CA 175	13	162	636	326	43	713	49	24	7	<5	60	<20	--	--
CA 176	16	216	188	245	34	1,040	50	24	7	<5	61	<20	--	--
CA 179	22	13	162	328	110	95	57	23	<2	<5	63	<20	30.70	10.90
CA 180	18	138	86	119	135	422	15	10	11	<5	246	<20	--	--
CA 181	18	202	125	228	30	992	42	14	6	<5	36	<20	10.90	6.59
CA 184	18	132	141	267	47	629	52	16	5	<5	52	<20	16.70	6.26
CA 185	18	177	82	296	36	936	40	23	4	<5	26	<20	18.00	6.23
CA 186	21	7	164	345	164	163	49	34	<2	<5	45	<20	--	--
CA 187	14	49	194	179	24	121	41	10	<2	<5	15	<20	15.00	13.30
CA 187B	25	24	71	372	60	64	19	14	5	<5	10	<20	--	--
CA 189	<10	12	382	134	15	4,770	12	<2	3	8	24	<20	11.60	6.86
CA 190	18	6	116	224	16	1,170	27	16	9	<5	19	<20	11.20	5.60
CA 191	<10	179	1,440	94	<2	555	67	33	2	<5	15	<20	15.30	4.51
CA 206	13	117	154	173	26	651	47	20	15	7	20	93	6.50	3.96
CA 216	17	129	335	239	56	1,320	84	32	3	<5	22	<20	15.10	8.53
CA 221	13	261	166	249	39	1,340	55	33	<2	<5	29	<20	16.40	6.98
CA 223	21	197	153	272	75	1,130	64	22	7	<5	23	<20	22.00	6.98
CA 226	17	13	260	313	45	692	39	25	6	<5	63	<20	21.90	6.75
CA 227	24	24	137	436	134	52	78	30	<2	<5	235	<20	38.10	29.90
CA 228	21	25	107	299	89	140	36	24	12	6	79	<20	--	--
CA 229	21	41	766	384	76	251	145	57	8	<5	138	<20	43.60	27.70
CA 230	<10	298	1,010	174	15	1,360	43	13	45	<5	27	<20	19.60	10.20
CA1000	16	172	113	256	54	1,320	84	26	<2	<5	10	<20	--	--
CA1001	16	175	122	246	41	1,260	57	34	10	<5	291	<20	--	--
CA1002	13	143	328	277	20	1,090	96	46	12	<5	18	<20	--	--
CA1021	16	7	88	269	16	823	25	16	8	<5	16	<20	9.30	8.57
CA1022	10	<2	46	250	10	2,790	16	3	4	<5	14	<20	<3.40	4.68
CA1028	19	5	94	276	33	649	69	34	6	<5	23	<20	21.10	9.90
CA1029	16	35	408	320	42	1,120	83	44	5	<5	8	<20	--	--
CA1030	14	239	156	277	43	1,310	32	14	8	<5	14	<20	--	--
CA1031	14	207	133	278	33	1,230	49	32	4	<5	12	<20	--	--
CA1032	14	300	161	245	27	1,560	67	34	6	<5	12	<20	--	--
CA2010	17	114	80	343	50	893	70	29	5	<5	78	<20	13.50	3.62
CA2012	18	145	234	275	55	1,280	66	32	10	7	108	<20	13.70	7.11
CA2014	16	113	87	343	36	913	67	23	3	<5	74	<20	11.50	4.19
CA2015	28	157	26	582	97	70	107	58	11	<5	189	<20	16.80	7.18
CA2017	14	118	98	382	44	875	81	30	14	<5	126	<20	14.60	4.84
CA2020	17	221	52	271	52	1,670	61	28	6	<5	11	<20	14.60	8.77
CA2021	11	32	419	177	35	528	41	13	138	33	99	43	5.30	1.88
CA2030	18	169	146	265	55	1,500	61	24	<2	<5	66	<20	12.40	8.79
CA2036	12	170	71	303	42	1,790	67	28	4	6	16	<20	18.30	8.59
CA2044	18	17	185	309	19	110	79	21	10	<5	15	35	5.50	1.74

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS

[Elements under headings "s" determined by ICP-AES after multi-acid digestion; those under "/p" determined by ICP-AEC after partial digestion; Ag and Au in "o.p.t" (oz. per ton) determined by fire assey (AMAX Gold, Inc.).

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s	Ba ppm-s
M112-25	5.40	.06	1.70	5.10	.010	.17	.030	.170	95	28	110	<8	250
M112-35	4.10	.06	2.00	3.10	.010	.16	.020	.120	140	100	90	<8	390
M112-40	2.30	.03	1.50	1.20	.008	.05	.010	.050	130	510	40	530	300
M112-45	.35	.02	1.30	.09	.006	.03	<.005	.070	130	130	10	100	1,300
M112-50	.31	.02	1.40	.08	.005	.03	<.005	.090	120	110	10	23	1,600
M112-65	8.10	.06	1.20	3.30	.020	.15	.070	.430	3,000	14	80	<8	440
M082-110	4.20	.04	4.50	3.80	.010	.10	.030	.100	110	39	310	<8	71
M082-125	2.60	.04	3.00	1.60	.010	.09	.030	.040	250	83	70	<8	92
M082-130	2.50	.03	2.20	2.10	.010	.06	.010	.020	200	420	50	280	410
M082-140	2.60	.04	2.80	1.30	.010	.06	.040	.130	220	100	60	<8	69
M082-155	.67	.04	.58	.09	.020	.04	.020	1.200	560	22	20	<8	670
M173-65	5.00	.10	1.40	5.60	.010	.38	.060	.170	93	6	30	<8	1,000
M173-80	4.70	.11	2.30	4.80	.010	.25	.100	.120	97	7	110	<8	150
M173-95	5.00	.07	2.30	3.90	.010	.15	.080	.140	98	18	90	<8	780
M173-100	3.70	.07	6.50	2.20	.040	.06	.100	.190	460	17	260	<8	79
M173-115	1.50	.05	3.20	.81	.030	.05	.030	.130	410	19	240	<8	160
M243-120	6.30	.12	3.60	5.30	.050	.56	.050	.260	130	11	290	<8	110
M243-140	6.00	.09	4.00	5.40	.030	.52	.030	.210	150	7	510	<8	73
M243-160	6.00	.13	4.10	5.20	.040	.63	.050	.200	350	7	380	<8	83
M243-170	5.20	.08	5.00	4.60	.020	.46	.020	.150	280	6	410	<8	56
M243-180	5.80	.07	5.00	5.70	.020	.31	.030	.150	120	14	480	<8	63
M243-190	5.90	.10	3.40	5.40	.020	.50	.030	.180	110	12	410	<8	72
M243-200	6.20	.08	3.20	6.00	.020	.41	.030	.140	160	14	400	<8	97
M243-210	6.20	.10	8.50	5.40	.030	.36	.050	.130	1,500	23	780	<8	93
M243-215	5.30	.06	7.00	4.50	.020	.18	.040	.090	160	640	800	910	69
M243-220	3.10	.03	7.30	3.10	.010	.06	.020	.008	190	500	400	630	200
M243-230	4.10	.04	6.30	3.60	.020	.08	.060	.160	110	58	320	<8	230
M243-240	5.10	.04	4.80	4.00	.020	.08	.040	.250	210	42	200	<8	50
M243-250	3.60	.02	4.80	2.90	.020	.06	.020	.160	170	110	420	<8	140
M243-260	5.30	.05	5.20	4.60	.030	.08	.070	.260	180	34	330	<8	140
M213-125	5.60	.06	4.00	5.60	.009	.36	.030	.210	120	6	160	<8	78
M213-140	6.10	.09	2.80	6.30	.010	.52	.030	.160	98	6	120	<8	330
M213-145	6.00	.08	4.40	6.10	.010	.49	.030	.150	110	7	180	<8	230
M213-150	5.50	.08	4.50	5.90	.020	.48	.020	.200	130	6	140	<8	120
M213-165	4.20	.04	6.20	3.20	.009	.13	.030	.100	110	18	430	<8	78
M241-130	6.00	.06	3.70	5.20	.020	.40	.030	.210	190	13	410	<8	160
M241-140	2.90	.02	3.50	2.70	.010	.07	.020	.009	170	54	130	<8	260
M241-145	4.00	.05	7.80	3.40	.020	.13	.050	.070	180	42	430	<8	97
M241-150	4.40	.04	4.50	4.70	.020	.12	.040	.090	140	65	200	<8	550
M241-165	4.80	.05	3.90	4.10	.020	.10	.070	.350	95	54	210	<8	63
M011-55	4.70	.05	2.30	1.40	.020	.06	.040	.170	76	100	140	<8	57
M011-40	5.30	.04	2.30	1.60	.020	.04	.040	.170	73	220	230	<8	630
M011-35	2.80	.04	2.00	1.30	.010	.04	.030	.010	150	1,200	50	1,100	200
M011-30	3.10	.04	2.40	1.50	.010	.08	.030	.030	150	1,100	100	970	81
M011-25	4.10	.05	2.90	2.50	.010	.07	.040	.110	120	180	230	14	430
M011-15	5.80	.07	2.40	3.00	.020	.09	.050	.160	95	52	160	<8	170
M018-100	6.30	.08	2.50	3.70	.020	.21	.050	.140	670	45	210	<8	56
M018-110	5.20	.08	3.30	4.30	.020	.34	.020	.180	220	49	510	<8	66

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Ag/p ppm	As/p ppm
M112-25	14	15	15	4	200	7	32	8	1	51	11.00	75.0
M112-35	13	19	13	4	170	5	31	7	<1	10	64.00	48.0
M112-40	5	18	9	<2	150	<4	25	2	<1	56	390.00	18.0
M112-45	<4	17	8	<2	56	<4	6	<2	<1	7	35.00	3.3
M112-50	<4	18	5	<2	53	<4	6	<2	<1	18	14.00	2.3
M112-65	22	47	14	10	350	11	83	15	2	63	3.60	74.0
M082-110	12	20	14	3	170	5	40	7	1	15	15.00	260.0
M082-125	8	33	<4	3	130	<4	52	6	<1	25	29.00	44.0
M082-130	<4	24	19	<2	73	<4	28	2	<1	21	230.00	30.0
M082-140	11	33	11	<2	150	<4	38	7	<1	50	11.00	33.0
M082-155	31	11	5	8	66	5	26	14	3	15	1.80	16.0
M173-65	23	15	12	5	120	8	27	9	1	11	1.90	24.0
M173-80	17	12	15	4	110	5	33	14	1	26	2.30	90.0
M173-95	21	18	8	6	110	8	45	29	2	24	8.90	85.0
M173-100	30	20	7	6	180	<4	52	28	2	21	4.00	210.0
M173-115	7	22	4	<2	130	<4	23	10	<1	39	11.00	240.0
M243-120	28	16	16	6	250	15	38	27	3	54	4.90	270.0
M243-140	23	18	19	6	140	9	25	15	2	29	5.30	440.0
M243-160	26	27	14	5	170	11	27	21	2	48	4.20	330.0
M243-170	23	27	20	5	92	5	23	19	2	29	4.80	300.0
M243-180	24	16	16	5	170	8	20	12	2	40	8.70	380.0
M243-190	24	14	22	4	170	9	18	14	2	25	8.20	320.0
M243-200	25	17	15	3	180	11	14	11	1	42	9.50	320.0
M243-210	14	40	28	3	180	7	34	14	2	160	17.00	640.0
M243-215	13	16	15	3	180	6	25	7	1	84	450.00	610.0
M243-220	<4	18	6	<2	71	<4	15	<2	<1	92	440.00	320.0
M243-230	11	14	5	4	180	<4	41	9	<1	42	38.00	260.0
M243-240	18	24	9	5	91	6	61	15	2	44	30.00	130.0
M243-250	9	24	10	3	86	<4	51	8	1	23	95.00	390.0
M243-260	22	37	11	7	110	6	62	97	7	79	27.00	260.0
M213-125	20	23	24	5	110	5	22	18	2	30	5.00	150.0
M213-140	26	16	17	4	81	11	27	20	2	61	4.70	110.0
M213-145	27	19	15	3	90	13	26	19	2	24	5.30	150.0
M213-150	30	20	12	4	82	14	23	13	2	26	3.60	120.0
M213-165	15	17	11	6	69	<4	16	19	2	32	14.00	400.0
M241-130	24	20	16	5	120	9	39	12	2	14	7.90	180.0
M241-140	<4	21	<4	<2	83	<4	22	<2	<1	22	30.00	99.0
M241-145	7	20	17	<2	160	5	26	5	<1	120	20.00	370.0
M241-150	7	16	10	2	160	5	21	4	<1	62	41.00	170.0
M241-165	16	12	15	7	140	<4	61	11	1	26	29.00	140.0
M011-55	23	11	21	5	360	7	57	8	1	10	38.00	87.0
M011-40	16	13	13	5	280	8	57	9	1	52	110.00	100.0
M011-35	9	24	20	2	180	<4	53	7	<1	25	770.00	25.0
M011-30	7	24	80	2	180	<4	35	4	<1	21	650.00	71.0
M011-25	10	18	18	4	180	<4	33	7	<1	34	110.00	150.0
M011-15	34	15	25	6	250	9	47	13	2	310	17.00	94.0
M018-100	25	32	43	5	400	11	33	13	1	81	12.00	140.0
M018-110	24	19	16	5	220	9	27	12	1	27	29.00	360.0

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm	Sb/p ppm	Zn/p ppm	Au opt	Ag opt	Positn[1]
M112-25	.93	N	.039	30	11.0	3.10	120	45.0	.039	.666	10
M112-35	1.60	N	N	52	56.0	1.80	120	6.9	.075	2.530	5
M112-40	690.00	N	N	35	44.0	2.40	120	58.0	21.460	12.290	0
M112-45	140.00	N	.031	26	12.0	2.70	72	7.5	4.620	2.830	0
M112-50	25.00	N	N	23	5.7	1.10	20	17.0	.758	2.350	-5
M112-65	.96	N	.270	40	39.0	3.90	34	62.0	.064	.358	-20
M082-110	3.50	N	N	42	88.0	4.10	130	13.0	.167	.943	15
M082-125	4.90	N	N	53	100.0	1.40	84	28.0	.199	1.940	5
M082-130	250.00	N	.043	45	59.0	7.00	98	18.0	12.920	4.530	0
M082-140	2.30	N	.031	53	42.0	2.40	65	48.0	.095	2.290	-10
M082-155	N	N	.100	15	49.0	3.60	89	24.0	.010	.460	-25
M173-65	.87	N	.054	29	5.0	3.70	41	14.0	.033	.224	25
M173-80	1.30	N	.050	27	7.4	4.20	39	28.0	.059	.163	10
M173-95	1.90	N	.140	48	7.8	3.50	38	23.0	.113	.442	0
M173-100	1.00	N	.110	32	37.0	1.20	110	19.0	.048	.420	-5
M173-115	.29	N	.180	31	34.0	2.70	56	27.0	.023	.473	-20
M243-120	.31	N	.140	35	19.0	3.70	80	47.0	.021	.264	90
M243-140	N	N	.076	46	19.0	4.50	53	20.0	.013	.160	70
M243-160	.44	N	.190	48	17.0	4.50	41	37.0	.038	.443	50
M243-170	N	N	.150	49	32.0	5.50	63	22.0	.018	.202	40
M243-180	.43	N	.093	39	25.0	5.70	56	33.0	.030	.223	30
M243-190	.21	N	.077	35	24.0	6.20	28	19.0	.018	.282	20
M243-200	1.10	N	.120	35	25.0	5.40	22	37.0	.052	.454	10
M243-210	.50	N	.380	79	100.0	4.20	77	160.0	.066	.612	5
M243-215	930.00	N	.210	45	45.0	3.30	98	36.0	25.660	23.660	0
M243-220	900.00	N	.140	81	56.0	1.20	62	76.0	22.510	18.500	0
M243-230	1.40	N	N	41	150.0	2.10	49	35.0	.101	1.224	-5
M243-240	.54	N	N	62	550.0	2.70	72	32.0	.136	1.114	-15
M243-250	.47	N	N	76	410.0	2.90	200	18.0	.158	2.792	-25
M243-260	.41	N	.630	83	240.0	4.80	93	65.0	.085	.815	-35
M213-125	N	N	.130	40	16.0	5.20	64	22.0	.026	.472	120
M213-140	N	N	.110	33	140.0	7.00	200	61.0	.017	.153	105
M213-145	N	N	.170	34	32.0	4.80	110	21.0	.022	.177	100
M213-150	N	N	.120	37	13.0	4.60	72	25.0	.020	.115	95
M213-165	N	N	.048	41	83.0	3.80	260	23.0	.039	.456	85
M241-130	N	N	N	51	26.0	2.80	42	10.0	.021	.334	10
M241-140	.89	N	N	43	31.0	.68	42	18.0	.056	1.200	5
M241-145	5.70	N	.170	64	75.0	3.40	100	100.0	.288	1.110	0
M241-150	.61	N	.092	51	48.0	2.40	50	51.0	.065	1.440	-5
M241-165	N	N	N	35	100.0	4.00	55	15.0	.056	1.310	-20
M011-55	3.90	N	N	28	68.0	3.00	130	7.6	.130	2.500	-25
M011-40	2.00	N	N	30	130.0	2.60	310	40.0	.200	4.800	-10
M011-35	1,200.00	N	N	53	64.0	4.20	280	17.0	47.500	31.000	0
M011-30	870.00	N	.061	51	44.0	15.00	300	16.0	29.600	24.100	0
M011-25	40.00	N	N	45	55.0	3.20	200	32.0	1.130	4.300	5
M011-15	.90	N	.090	37	44.0	18.00	350	270.0	.040	1.300	15
M018-100	1.80	N	.360	39	61.0	4.30	230	58.0	.038	1.000	15
M018-110	2.50	N	.160	38	66.0	8.60	54	18.0	.227	1.200	10

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Al %-s	Ca %-s	Fe %-s	K %-s	Mg %-s	Na %-s	P %-s	Ti %-s	Mn ppm-s	Ag ppm-s	As ppm-s	Au ppm-s	Ba ppm-s
M018-115	4.30	.05	2.90	4.30	.010	.22	.010	.090	180	330	300	190	120
M018-125	3.30	.03	3.00	3.30	.010	.07	.020	.040	180	310	150	320	100
M018-135	5.70	.05	3.00	4.60	.020	.12	.050	.380	120	89	320	<8	78
M018-150	6.10	.04	2.90	3.00	.020	.05	.030	.430	160	76	420	<8	63
M042-45	7.80	.11	2.20	3.00	.010	.50	.140	.150	84	19	180	<8	350
M042-60	3.20	.15	1.70	1.00	.020	.38	.150	.460	120	15	50	<8	190
M042-65	1.10	.07	2.90	.35	.010	.11	.050	.610	230	110	30	<8	610
M042-70	5.50	.55	.79	1.60	.050	.24	.270	.670	1,900	11	70	<8	89
M042-80	10.00	.39	2.90	3.70	.050	.58	.270	.440	1,100	4	130	<8	240
M046-100	6.90	.13	2.30	4.10	.030	.25	.110	.200	160	8	210	<8	100
M046-115	7.00	.12	1.70	.97	.010	.99	.200	.120	180	23	130	<8	260
M046-120	6.40	.17	3.60	1.30	.050	.57	.260	.250	960	34	240	29	89
M046-125	4.90	.11	3.60	1.40	.040	.36	.150	.530	480	12	220	<8	51
M046-140	4.90	.14	3.40	1.70	.030	.48	.170	.320	89	<2	270	<8	470
M055-250	5.80	.04	4.00	4.90	.030	.35	.020	.190	120	13	280	<8	61
M055-260	5.80	.09	5.10	4.10	.040	.52	.020	.190	150	18	310	<8	100
M055-275	5.10	.05	4.90	2.60	.020	.18	.030	.160	81	39	340	<8	59
M055-280	3.80	.04	2.50	2.50	.010	.11	.050	.070	130	82	180	33	77
M055-290	4.50	.05	2.40	2.20	.020	.05	.080	.200	100	100	190	73	570
M055-295	3.60	.05	4.70	2.10	.020	.04	.070	.080	130	100	250	<8	45
M055-310	1.60	.04	3.70	.30	.010	.09	.030	.110	200	35	90	<8	550
M055-320	4.80	.12	1.60	.97	.010	.37	.140	.270	82	34	90	17	450
M055-330	6.40	.08	.62	1.60	.010	.14	.080	.670	43	5	60	<8	380
M055-340	6.10	.07	12.00	1.80	.010	.19	.100	.480	220	5	1,200	<8	81
M055-350	13.00	.13	4.70	4.00	.020	.73	.210	.870	140	3	610	<8	110
M055-360	10.00	.12	2.20	2.50	.008	.74	.180	.310	120	3	300	<8	250
M055-370	8.10	.17	2.10	2.30	.280	.15	.100	.440	120	7	210	<8	71
M168-70	6.10	.06	3.60	5.80	.010	.33	.020	.170	90	8	190	<8	310
M168-80	5.40	.08	3.30	5.40	.010	.44	.020	.150	98	4	200	<8	250
M168-85	4.90	.06	3.30	4.10	.010	.26	.030	.120	96	40	310	27	53
M168-90	5.00	.07	4.10	4.50	.010	.28	.020	.110	370	10	550	<8	57
M168-105	5.10	.07	6.40	3.80	.030	.24	.040	.130	320	8	660	<8	78
M248-210	5.50	.10	2.50	4.60	.020	.45	.020	.140	26	13	220	<8	220
M248-225	5.10	.08	4.60	4.10	.030	.33	.020	.130	47	17	500	<8	46
M248-230	4.00	.06	12.00	3.50	.020	.19	.030	.130	77	110	390	130	140
M248-235	3.90	.05	6.80	3.20	.020	.10	.030	.210	52	73	280	80	130
M248-245	5.20	.05	4.80	4.50	.020	.12	.030	.260	76	19	280	8	67
M248-255	4.30	.05	3.60	3.70	.020	.12	.060	.180	47	63	490	<8	300
M278-120	6.00	.01	8.40	3.80	.030	.13	.010	.250	110	4	620	<8	96
M278-145	5.20	.03	5.20	3.90	.030	.06	.030	.370	150	8	300	<8	58
M278-160	6.60	.08	8.90	3.00	.050	.07	.090	.450	100	3	700	<8	51
M048-185	3.80	.07	2.60	3.20	.008	.12	.060	.170	120	9	130	<8	58
M048-190	3.60	.07	3.40	2.60	.009	.15	.070	.130	130	7	170	<8	45
M048-200	2.80	.17	6.00	1.10	.020	.24	.240	.160	190	78	620	130	72

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Be ppm-s	Ce ppm-s	Co ppm-s	Cr ppm-s	Cu ppm-s	Eu ppm-s	Ga ppm-s	La ppm-s	Li ppm-s	Mo ppm-s	Nb ppm-s
M018-115	<1	24	8	38	42	<2	8	12	28	50	<4
M018-125	<1	8	8	44	48	<2	6	5	42	180	<4
M018-135	1	40	5	39	71	<2	12	18	15	200	<4
M018-150	<1	21	5	40	34	<2	12	11	10	220	5
M042-45	2	40	2	35	37	<2	17	18	15	66	6
M042-60	1	45	2	75	37	<2	16	31	11	60	6
M042-65	<1	19	4	94	66	<2	5	11	6	29	5
M042-70	<1	42	25	44	130	<2	24	28	30	31	9
M042-80	<1	67	47	43	33	<2	23	39	16	74	17
M046-100	3	39	4	18	25	<2	15	20	22	60	9
M046-115	2	49	5	31	37	3	10	20	10	100	<4
M046-120	2	43	29	34	46	3	13	18	12	98	<4
M046-125	1	33	17	33	36	<2	12	17	10	97	4
M046-140	2	37	3	59	19	<2	13	22	24	11	5
M055-250	1	44	8	32	36	<2	12	23	16	89	5
M055-260	1	44	13	22	34	<2	14	22	15	66	<4
M055-275	2	34	4	20	30	<2	9	18	15	120	<4
M055-280	<1	29	5	32	31	<2	7	12	27	50	<4
M055-290	1	22	3	47	38	<2	7	11	14	88	<4
M055-295	1	14	3	54	43	<2	6	6	12	150	<4
M055-310	1	15	4	66	60	<2	<4	9	4	57	<4
M055-320	<1	39	2	45	42	<2	7	18	7	120	<4
M055-330	<1	61	<1	21	14	<2	14	36	18	100	6
M055-340	3	32	8	34	240	<2	13	21	10	460	12
M055-350	2	66	4	24	55	<2	26	38	12	240	15
M055-360	2	72	3	20	30	<2	17	34	14	230	10
M055-370	2	64	12	35	460	<2	16	32	14	67	11
M168-70	1	47	12	42	34	<2	10	25	27	14	<4
M168-80	1	42	10	42	37	<2	9	22	26	18	7
M168-85	1	29	9	42	42	<2	6	16	35	50	6
M168-90	1	42	22	43	46	<2	10	20	31	150	<4
M168-105	1	45	18	36	44	<2	9	22	22	48	12
M248-210	1	35	4	180	14	<2	11	20	9	24	6
M248-225	1	33	4	150	23	<2	11	17	9	30	7
M248-230	1	23	5	160	43	<2	9	12	10	230	4
M248-235	1	20	4	150	28	<2	10	10	14	220	<4
M248-245	1	32	10	140	64	<2	12	13	15	140	6
M248-255	1	26	26	230	44	<2	10	13	13	400	<4
M278-120	<1	24	3	22	18	<2	19	13	6	140	10
M278-145	1	32	8	46	71	<2	16	14	9	78	6
M278-160	2	30	5	38	55	2	17	15	14	56	7
M048-185	2	33	4	48	51	<2	7	16	22	140	5
M048-190	2	32	5	62	54	<2	8	15	22	130	5
M048-200	3	52	5	39	42	3	12	20	8	160	<4

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Nd ppm-s	Ni ppm-s	Pb ppm-s	Sc ppm-s	Sr ppm-s	Th ppm-s	V ppm-s	Y ppm-s	Yb ppm-s	Zn ppm-s	Ag/p ppm	As/p ppm
M018-115	5	18	23	3	160	<4	16	5	<1	20	250.00	210.0
M018-125	7	21	9	<2	150	5	14	3	<1	15	190.00	100.0
M018-135	27	15	10	9	310	5	70	16	2	16	37.00	160.0
M018-150	17	11	17	9	240	<4	90	7	1	14	33.00	140.0
M042-45	25	12	16	7	460	6	54	9	<1	10	5.40	95.0
M042-60	20	16	13	7	870	5	96	8	1	30	1.10	25.0
M042-65	10	31	5	5	220	<4	36	6	1	5	13.00	7.4
M042-70	18	120	12	8	410	5	84	36	3	70	1.70	43.0
M042-80	20	39	20	12	600	5	110	14	2	47	1.00	98.0
M046-100	23	18	17	9	440	10	40	15	1	69	1.20	160.0
M046-115	49	23	12	11	1,100	6	44	16	1	21	3.40	91.0
M046-120	44	45	11	11	1,500	7	71	23	2	94	11.00	220.0
M046-125	22	30	13	10	690	<4	80	14	2	130	4.30	210.0
M046-140	22	10	5	7	140	5	80	7	<1	38	.50	270.0
M055-250	25	14	13	5	90	10	23	10	1	48	7.30	210.0
M055-260	21	12	20	5	130	9	25	19	2	80	12.00	290.0
M055-275	19	11	14	5	230	8	25	9	1	63	10.00	290.0
M055-280	19	15	6	3	240	<4	19	6	<1	48	39.00	150.0
M055-290	14	15	9	6	360	<4	45	13	1	27	30.00	140.0
M055-295	7	20	<4	3	260	<4	34	4	<1	31	25.00	220.0
M055-310	6	25	5	<2	280	<4	28	4	<1	48	3.60	72.0
M055-320	25	14	5	8	1,200	<4	77	4	<1	41	9.60	77.0
M055-330	32	4	<4	12	590	6	110	11	2	10	.58	50.0
M055-340	20	37	10	10	830	6	240	10	1	390	1.10	1,300.0
M055-350	34	21	13	21	760	8	280	14	2	140	.96	570.0
M055-360	36	18	12	15	590	5	120	11	1	130	.95	290.0
M055-370	32	16	12	12	280	6	84	26	2	110	2.20	200.0
M168-70	20	17	19	4	100	11	17	14	2	21	5.90	160.0
M168-80	21	17	19	4	120	11	20	14	2	37	2.90	160.0
M168-85	12	17	18	4	130	<4	28	10	1	20	29.00	280.0
M168-90	21	39	11	4	120	6	29	15	1	47	6.20	430.0
M168-105	27	27	24	4	150	6	35	18	2	71	4.80	600.0
M248-210	16	6	17	4	180	8	23	11	1	23	9.20	180.0
M248-225	18	6	16	4	180	6	29	12	1	29	12.00	440.0
M248-230	10	9	11	4	150	7	51	10	1	79	130.00	360.0
M248-235	12	5	11	5	140	<4	56	11	1	43	53.00	250.0
M248-245	15	13	14	6	160	<4	62	14	2	28	14.00	270.0
M248-255	18	19	7	5	110	5	48	27	3	66	53.00	460.0
M278-120	10	7	19	7	68	8	53	15	2	16	1.90	470.0
M278-145	19	15	10	9	78	5	97	33	3	53	5.70	240.0
M278-160	21	12	8	11	130	7	150	82	7	57	1.20	710.0
M048-185	21	18	13	6	140	5	22	11	1	12	4.40	120.0
M048-190	22	24	12	6	170	6	24	11	1	12	4.40	160.0
M048-200	54	20	8	7	830	6	80	14	2	49	30.00	630.0

TABLE 6. ANALYTICAL RESULTS FOR HIGHLY MINERALIZED SAMPLES OF DRILL CUTTINGS--Continued

Sample	Au/p ppm	Bi/p ppm	Cd/p ppm	Cu/p ppm	Mo/p ppm	Pb/p ppm	Sb/p ppm	Zn/p ppm	Au opt	Ag opt	Positn[1]
M018-115	250.00	N	.063	36	41.0	4.60	130	15.0	5.210	11.200	5
M018-125	330.00	N	N	40	140.0	3.80	320	11.0	7.950	10.400	0
M018-135	7.70	N	N	33	130.0	2.40	170	9.9	.254	1.800	-10
M018-150	1.50	N	N	22	120.0	3.20	100	10.0	.121	1.800	-25
M042-45	3.00	N	N	28	63.0	1.40	230	8.5	.123	.490	0
M042-60	.86	N	N	32	78.0	2.30	640	25.0	.065	.350	5
M042-65	18.00	N	N	58	37.0	1.10	180	3.9	.394	2.300	0
M042-70	N	N	.410	120	19.0	3.60	40	61.0	.007	.270	-5
M042-80	N	N	.052	28	65.0	10.00	36	44.0	.010	.090	-15
M046-100	N	N	.051	19	36.0	3.40	110	46.0	.042	.165	20
M046-115	N	N	N	34	140.0	.82	330	20.0	.041	.541	5
M046-120	19.00	N	.220	41	99.0	4.10	200	74.0	.497	.757	0
M046-125	3.20	N	.100	34	99.0	6.50	130	100.0	.070	.286	-5
M046-140	N	N	N	18	12.0	3.90	58	36.0	.018	.091	-20
M055-250	N	N	N	33	72.0	2.60	43	19.0	.042	.290	30
M055-260	N	N	N	34	61.0	6.40	41	61.0	.045	.422	20
M055-275	.23	N	N	27	89.0	6.20	52	35.0	.053	.916	5
M055-280	55.00	N	.040	28	45.0	3.00	42	42.0	3.200	.867	0
M055-290	53.00	N	N	32	60.0	2.10	97	21.0	2.340	1.270	0
M055-295	17.00	N	N	40	140.0	1.70	200	29.0	.527	2.440	-5
M055-310	2.30	N	.062	52	50.0	1.20	190	43.0	.154	.835	-20
M055-320	20.00	N	N	37	90.0	1.70	72	39.0	.878	.585	-30
M055-330	N	N	.310	12	96.0	2.30	42	12.0	.010	.137	-40
M055-340	N	N	.790	220	450.0	.63	500	350.0	.027	.139	-50
M055-350	N	N	.820	54	210.0	5.80	220	130.0	.017	.052	-60
M055-360	.37	N	.430	28	170.0	3.10	140	120.0	.028	.052	-70
M055-370	N	N	.880	440	73.0	3.60	80	89.0	.036	.156	-80
M168-70	.28	N	.094	31	12.0	5.70	66	19.0	.020	.149	10
M168-80	1.70	N	.150	32	15.0	5.90	53	37.0	.054	.100	5
M168-85	38.00	N	.120	38	34.0	4.30	110	15.0	.122	2.130	0
M168-90	2.90	N	.170	41	150.0	5.50	280	37.0	.087	.294	-5
M168-105	.72	N	2.000	38	40.0	6.20	250	51.0	.049	.178	-20
M248-210	.59	N	.060	13	21.0	3.50	45	17.0	.028	.298	20
M248-225	.60	N	.083	21	28.0	4.00	52	22.0	.032	.388	5
M248-230	280.00	N	N	42	220.0	2.80	93	69.0	7.750	3.760	0
M248-235	90.00	N	N	26	190.0	3.90	120	34.0	3.310	1.683	0
M248-245	9.30	N	.250	65	130.0	4.70	100	24.0	.252	.394	-10
M248-255	4.00	N	.930	44	280.0	5.00	180	57.0	.218	1.721	-20
M278-120	N	N	.730	15	62.0	6.50	39	15.0	.011	.047	--
M278-145	.59	N	.170	62	54.0	3.20	58	41.0	.037	.181	--
M278-160	N	N	.072	46	56.0	2.40	300	36.0	.007	.037	--
M048-185	2.00	N	N	49	100.0	6.90	750	7.2	.005	.020	15
M048-190	1.90	N	N	54	100.0	6.50	870	12.0	.052	.209	10
M048-200	70.00	N	.140	41	140.0	4.10	320	48.0	1.260	1.630	0

1 Position relative to Sleeper vein in feet; negative values are in footwall.

Table 7. Statistical summary of analytical results for rock samples from the Sleeper mine area, Humboldt County, Nevada

[Number of places shown may not be valid; Min., minimum; max., maximum; valid, number of unqualified determinations; B, not analyzed; L, below lower limit of determination; N, not detected; G, greater than upper limit of determination; FeTO3, total iron reported as ferric iron; LOI, loss on ignition.]

Variable	Min.	Max.	Geom. mean	Valid	B	L	N
1 SIO2 %	5.71	97.50	66.26	168	126	0	0
2 AL2O3 %	.28	33.60	11.01	168	126	0	0
3 FETO3 %	.04	26.80	1.82	168	126	0	0
4 MGO %	.10	3.36	.30	149	126	19	0
5 CAO %	.04	8.75	.34	167	126	1	0
6 NA2O %	.16	5.36	1.09	118	126	50	0
7 K2O %	.02	9.44	2.95	168	126	0	0
8 TIO2 %	.04	3.71	.57	165	126	3	0
9 P2O5 %	.05	2.28	.15	155	126	13	0
10 MNO %	.02	.48	.04	28	126	140	0
11 LOI 900C	.60	38.70	4.95	168	126	0	0
12 H2O+ %	.11	10.70	1.70	95	199	0	0
13 H2O- %	.06	6.51	.38	94	199	1	0
14 CO2 %	.01	3.23	.05	18	219	57	0
15 CL %	.01	.10	.02	31	159	104	0
16 F %	.01	.53	.04	130	159	5	0
17 TOTAL S%	.06	17.60	1.22	112	154	28	0
18 AL %-S[1]	.14	17.00	5.61	294	0	0	0
19 CA %-S	.02	6.00	.24	294	0	0	0
20 FE %-S	.05	32.50	1.54	294	0	0	0
21 K %-S	.05	7.60	2.63	289	0	5	0
22 MG %-S	.00	2.10	.10	294	0	0	0
23 NA %-S	.02	4.00	.31	294	0	0	0
24 P %-S	.00	1.10	.05	291	0	3	0
25 TI %-S	.00	2.10	.25	293	0	1	0
26 MN PPM-S	4.0	22,000	43.6	287	0	7	0
27 AG PPM-S	2.0	180	9.0	111	0	183	0
28 AS PPM-S	0.0	3,300	119.5	243	0	51	0
29 AU PPM-S	9.0	600	37.4	5	0	289	0
30 BA PPM-S	13.0	3,000	372.7	294	0	0	0
31 BE PPM-S	1.0	13	1.7	246	0	48	0

Table 7.--Statistical summary of analytical results for rock samples from the Sleeper mine area, Humboldt County, Nevada--Continued

Variable	Min.	Max.	Geom. mean	Valid	B	L	N
32 CE PPM-S	5.0	200	45.7	288	0	6	0
33 CO PPM-S	1.0	1,900	4.7	251	0	43	0
34 CR PPM-S	1.0	240	7.4	291	0	3	0
35 CU PPM-S	1.0	470	10.6	290	0	4	0
36 EU PPM-S	2.0	9.0	2.7	39	0	255	0
37 GA PPM-S	4.0	54	15.2	283	0	11	0
38 LA PPM-S	2.0	91	23.6	290	0	4	0
39 LI PPM-S	2.0	420	19.4	287	0	7	0
40 MO PPM-S	2.0	910	12.9	203	0	91	0
41 NB PPM-S	4.0	24	9.9	225	0	69	0
42 ND PPM-S	4.0	170	25.0	281	0	13	0
43 NI PPM-S	2.0	310	8.6	146	0	148	0
44 PB PPM-S	4.0	62	13.7	255	0	39	0
45 SC PPM-S	2.0	30	7.0	280	0	14	0
46 SE PPM-X[2]	10.0	86	20.7	58	164	71	0
47 SR PPM-S	14.0	2,600	148.0	294	0	0	0
48 TH PPM-S	4.0	25	11.1	214	0	80	0
49 V PPM-S	2.0	620	37.0	294	0	0	0
50 Y PPM-S	2.0	182	15.3	286	0	8	0
51 YB PPM-S	1.0	13	2.2	243	0	51	0
52 ZN PPM-S	2.0	310	26.4	242	0	52	0
53 NB PPM	10.0	28	16.2	78	203	13	0
54 RB PPM	5.0	332	94.9	90	203	1	0
55 SR PPM	18.0	2,560	188.3	91	203	0	0
56 ZR PPM	49.0	582	224.3	91	203	0	0
57 Y PPM	4.0	164	30.3	88	203	3	0
58 BA PPM	52.0	4,770	723.3	91	203	0	0
59 CE PPM	12.0	160	52.2	91	203	0	0
60 LA PPM	3.0	78	24.5	89	203	2	0
61 CU PPM	2.0	452	11.9	79	203	12	0
62 NI PPM	5.0	249	15.4	28	203	63	0
63 ZN PPM	8.0	294	32.6	91	203	0	0
64 CR PPM	28.0	325	104.3	31	203	60	0
65 Ag/P PPM[3]	.04	460	.89	130	124	0	40
66 As/P PPM	.88	1,300	69.7	161	124	0	9
67 Au/P PPM	.15	290	.57	38	124	0	132

Table 7.--Statistical summary of analytical results for rock samples from the Sleeper mine area, Humboldt County, Nevada--Continued

Variable	Min.	Max.	Geom. mean	Valid	B	L	N
68 Bi/P PPM	.63	4.2	1.1	8	124	0	162
69 Cd/P PPM	.03	7.0	.11	85	124	0	85
70 Cu/P PPM	.26	430	6.9	170	124	0	0
71 Mo/P PPM	.13	680	4.3	170	124	0	0
72 Pb/P PPM	.65	120	3.8	166	124	0	4
73 Sb/P PPM	.62	5,100	28.5	162	124	0	8
74 Zn/P PPM	.07	270	9.7	168	124	0	2
75 HG PPM	.12	10	1.4	32	252	0	3
76 SE PPM	.10	18	3.2	27	252	2	0
77 TE PPM	.05	8.6	.37	24	252	18	0
78 TL PPM	.15	50	3.5	42	252	0	0
79 W PPM	1.0	30	4.7	40	252	2	0
80 AU PPM	.05	40	.52	34	252	8	0

[1] Elements coded "PPM-S" determined by ICP-AES after multi-acid digestion.

[2] Determined by EDXRF.

[3] Elements coded "/P PPM" determined by ICP-AES after partial extraction .