UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map for stream-sediment and panned-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada

By

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Open-File Report 89-22

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1989

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STUDIES RELATED TO WILDERNESS

Bureau of Land Management Wilderness Study Areas

The Federal Land Policy and Management Act (Public Law 94-579, October 21, 1976) requires the U.S. Geological Survey and the U.S. Bureau of Mines to conduct mineral surveys on certain areas to determine their mineral resource potential. Results must be made available to the public and be submitted to the President and the Congress. This report presents the results of geochemical surveys of the El Dorado (NV-050-423) and Ireteba Peaks (NV-050-438) Wilderness Study Areas, Clark County, Nevada.

INTRODUCTION

In April 1987, the U.S. Geological Survey conducted reconnaissance geochemical surveys of the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada. The El Dorado and Ireteba Peaks Wilderness Study Areas are, respectively, about 10 and 20 mi south of Boulder City, Nevada (fig. 1). The wilderness study areas include the higher portions of the Eldorado Mountains; this mountain range parallels the Colorado River between Lake Mead and Lake Mohave. According to U.S. Geological Survey topographic maps (plate 1), the El Dorado and Ireteba Peaks Wilderness Study Areas are in the north and south Eldorado Mountains, respectively. The south Eldorado Mountains are termed the Opal Mountains in some literature (for example, Longwell and others, 1965). Most of the east side of the Eldorado Mountains drains into the Colorado River while most of the west side drains into an interior valley occupied by a playa.

The U.S. Bureau of Land Managment requested studies of 11,069 acres (17 mi^2) for the El Dorado Wilderness Study Area and 13,374 acres (21 mi^2) for the Ireteba Peaks Wilderness Study Area. A total of roughly 50 mi^2 were included in this study. Access is from U.S. Highway 95 and Nevada Routes 164 and 165 (fig. 1). Elevations range from about 2,300 to over 3,800 ft in the El Dorado Wilderness Study Area and from about 1,900 to over 5,000 ft in the Ireteba Peaks Wilderness Study Area. Vegetation in both wilderness study areas is predominantly desert shrubs, creosote, cacti, and yucca. Joshua trees are present in parts of the Ireteba Peaks Wilderness Study Area; scattered juniper and pinyon pines occur at higher elevations in this wilderness study area.

The geology of the El Dorado Wilderness Study Area is included in a detailed study by Anderson (1971). The geology of the Ireteba Peaks Wilderness Study Area is included in a report by Volborth (1973). Longwell and others (1965) described the geology and mineral deposits of Clark County. The more recent compilation of the geology of Nevada (Stewart and Carlson, 1978) and the report by Volborth (1973) assigned a Tertiary age to most of the intrusive rocks in the Ireteba Peaks Wilderness Study Area that were mapped as Precambrian by Longwell and others (1965). Except for relatively small areas underlain by Precambrian metamorphic rocks, the wilderness study areas are underlain by Tertiary volcanic and intrusive rocks. Granitic to intermediate intrusive rocks predominate in the Ireteba Peaks Wilderness Study Area while andesite and basalt flows, intermediate to andesitic flows and breccias, and silicic ash-flow tuffs predominate in the El Dorado Wilderness Study Area. Anderson (1971) suggested that Tertiary volcanic rocks accumulated to a thickness of about 17,000 ft on a Precambrian surface and underwent a period of intense faulting during the later portions of the major volcanism. A major stike-slip(?) fault, the Nelson fault zone,

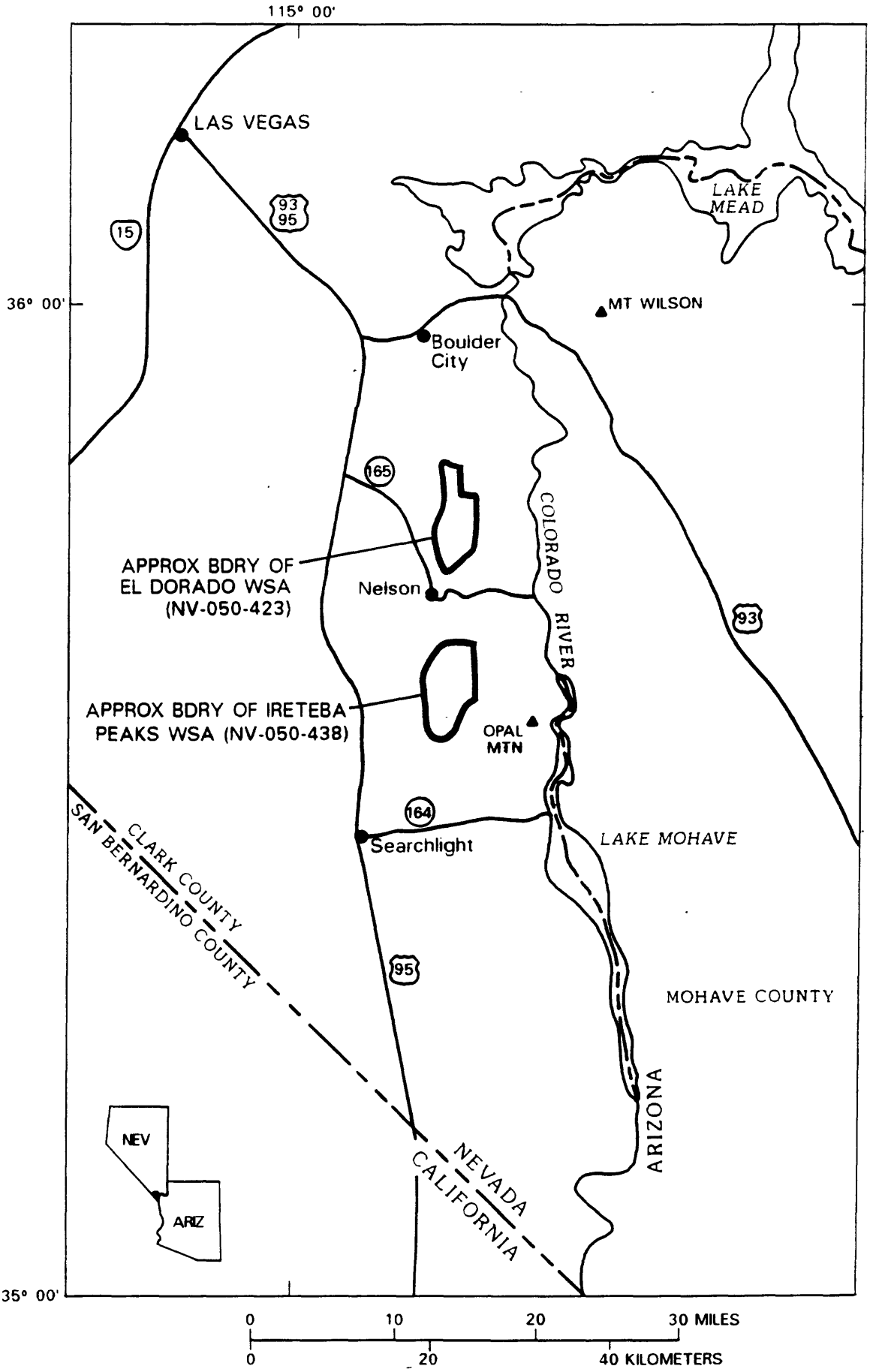

Figure 1. Index map of the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada.

separates the predominately volcanic terrane of the El Dorado Wilderness Study Area from the largely granitic terrane of the Ireteba Peaks Wilderness Study Area (Volborth, 1973).

The two wilderness study areas are separated by the Eldorado Canyon mining district, one of the oldest in Nevada. Historic mining began about 1857, but old arrastres and prospect pits indicate that mining by the Spanish or Mexicans took place long before that date (Longwell and others, 1965). Productive mines in the district are all located within the 1-1.5 mile-wide Nelson fault zone (Volborth, 1969). The ore bodies are in fissure zones. According to Longwell and others (1965), from 1907 to 1961 the district produced over 100,000 oz of gold, over 2,300,000 oz of silver, about 34,000 lbs of copper, 169,000 lbs of lead, and 7,000 lbs of zinc. Several million dollars worth of ore were produced before 1907.

Beryl-bearing pegmatites are found near the southwestern part of the Ireteba Peaks Wilderness Study Area (Longwell and others, 1965). Some of the pegmatites in that area also contain niobium and tantalum (Volborth, 1969).

METHODS OF STUDY

Sample Media

Analyses of stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits. Panned-concentrate samples derived from stream sediment provide information about the chemistry of certain minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which may be ore related, permits determination of some elements that are not easily detected in stream-sediment samples.

Sample Collection and Preparation

Stream-sediment and panned-concentrate samples were collected at 32 sites in and near the El Dorado Wilderness Study Area and 34 sites in and near the Ireteba Peaks Wilderness Study Area (plate 1). Sampling density was about one sample site per 0.5 mi^2 in the El Dorado Wilderness Study Area and one sample site per 0.6 mi^2 in the Ireteba Peaks Wilderness Study Area. The area of the drainage basins sampled ranged from about 0.1 mi^2 to about 2 mi^2.

Two types of panned-concentrate samples were collected at each site. One is termed a "nonmagnetic heavy-mineral-concentrate sample" and the other a "raw panned-concentrate sample."

Samples were collected by Janet L. Jones, Steven M. Smith, and Gary A. Nowlan.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams (plate 1). The stream-sediment samples were air dried, then sieved using 80-mesh (0.17-mm) stainless-steel sieves. The portion of the sediment passing through the sieve was pulverized to approximately minus 100-mesh (0.15-mm) for analysis.

Nonmagnetic heavy-mineral-concentrate samples

Active alluvium was screened with a 2.0-mm (10-mesh) screen to obtain about 20 lb of sample after removal of the coarse material. The samples were then panned to remove most of the quartz, feldspar, organic material, and clay-sized material. The resulting concentrate samples weighed an estimated 0.5-3 oz.

After oven drying the samples at 90 °C, bromoform (specific gravity 2.8) was used to remove the remaining quartz, feldspar, and other light minerals. The resultant heavy-mineral sample was separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material, primarily magnetite, was not analyzed. The second fraction, largely ferromagnesian silicates and iron oxides, was saved for archival storage. The third fraction (the least magnetic material, which may include the nonmagnetic ore minerals, zircon, sphene, etc.) was split using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis. These magnetic separates are the same separates that would be produced by using a Frantz Isodynamic Separator set at a slope of 15° and a tilt of 10° with a current of 0.2 ampere to remove the magnetite and ilmenite, and a current of 0.6 ampere to split the remainder of the sample into paramagnetic and nonmagnetic fractions.

Raw panned-concentrate samples

Active alluvium was screened, panned, and dried in the same manner as the nonmagnetic heavy-mineral-concentrate samples. However, in each case, the entire raw panned-concentrate sample was weighed and analyzed for gold (Au) without further treatment.

Sample Analysis

Spectrographic method

The stream-sediment samples were analyzed for 31 elements and the nonmagnetic heavy-mineral-concentrate samples for 37 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their limits of determination are listed in tables 1 and 2. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Emission spectrographic analyses were performed by John H. Bullock, Jr.

Other methods

Stream-sediment samples were also analyzed by inductively coupled plasma-atomic emission spectroscopy (ICP) and ultraviolet fluorimetry. The samples were analyzed for arsenic (As), antimony (Sb), bismuth (Bi), cadmium (Cd), and

zinc (Zn) using ICP and for uranium (U) using ultraviolet fluorimetry. Stream-sediment and raw panned-concentrate samples were analyzed for gold (Au) by atomic absorption spectroscopy (AA). Limits of determination, precision, and references for the methods are included in table 3. Analysts were Paul H. Briggs, John B. McHugh, and Theodore A. Roemer.

Analytical results for stream-sediment, nonmagnetic heavy-mineral-concentrate, and raw panned-concentrate samples are listed in tables 4, 5, and 6, respectively.

DATA STORAGE SYSTEM

Upon completion of the analytical work, the results were entered into a U.S. Geological Survey computer data base called PLUTO. This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC, VanTrump and Miesch, 1977) for computerized statistical analysis or publication.

DESCRIPTION OF DATA TABLES

The numeric part of each sample identification in tables 4-6 is the same as the corresponding sampling-site number on plate 1. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in tables 1 and 2. For emission spectrographic analyses, a "less than" symbol (<) entered in the tables indicates that an element was observed but was below the lowest reporting value. For AA and ICP analyses, a "less than" symbol (<) entered in the tables indicates that an element was below the lowest reporting value. If an element was above the highest reporting value, a "greater than" symbol (>) was entered in the tables. Because of the formatting used in the computer program that produced tables 4-6, some of the elements listed in these tables (Ca, Fe, Mg, P, Ti, and Be) carry one or more nonsignificant digits to the right of the significant digits.

Some elements were not detected in any sample by emission spectrography and are omitted from tables 4-5. These elements are As, Au, Bi, Cd, Sb, Th, and W in stream-sediment samples and Au, Cd, Ge, Sb, Pd, and Pt in nonmagnetic heavy-mineral-concentrate samples.

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TABLE 1.--Limits of determination for the spectrographic analysis of stream sediments, based on a 10-mg sample

Elements	Lower determination limit	Upper determination limit
	Weight percent	
Calcium (Ca)	0.05	20
Iron (Fe)	.05	20
Magnesium (Mg)	.02	10
Titanium (Ti)	.002	1
	Parts per million	
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Cd)	20	500
Cobalt (Co)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	20	1,000
Manganese (Mn)	10	5,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Thorium (Th)	100	2,000
Vanadium (V)	10	10,000
Tungsten (W)	50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000

TABLE 2.--Limits of determination for the spectrographic analysis of nonmagnetic heavy-mineral-concentrate samples, based on a 5-mg sample

Elements	Lower determination limit	Upper determination limit
	Percent	
Calcium (Ca)	0.1	50
Iron (Fe)	.1	50
Magnesium (Mg)	.05	20
Sodium (Na)	.5	10
Phosphorus (P)	.5	20
Titanium (Ti)	.005	2
	Parts per million	
Silver (Ag)	1	10,000
Arsenic (As)	500	20,000
Gold (Au)	20	1,000
Boron (B)	20	5,000
Barium (Ba)	50	10,000
Beryllium (Be)	2	2,000
Bismuth (Bi)	20	2,000
Cadmium (Cd)	50	1,000
Cobalt (Co)	20	5,000
Chromium (Cr)	20	10,000
Copper (Cu)	10	50,000
Gallium (Ga)	10	1,000
Germanium (Ge)	20	200
Lanthanum (La)	100	2,000
Manganese (Mn)	20	10,000
Molybdenum (Mo)	10	5,000
Niobium (Nb)	50	5,000
Nickel (Ni)	10	10,000
Lead (Pb)	20	50,000
Antimony (Sb)	200	20,000
Tin (Sn)	20	2,000
Scandium (Sc)	10	200
Strontium (Sr)	200	10,000
Thorium (Th)	200	5,000
Vanadium (V)	20	20,000
Tungsten (W)	50	20,000
Yttrium (Y)	20	5,000
Zinc (Zn)	500	20,000
Zirconium (Zr)	20	2,000
Palladium (Pd)	5	1,000
Platinum (Pt)	20	1,000

TABLE 3.--Analytical methods used other than emission spectrography

[AAF, flame atomic absorption; AAG, graphite furnace atomic absorption; F, ultraviolet fluorimetry; ICP, inductively coupled plasma-atomic emission spectroscopy]

Element determined	Sample type	Method	Lower determination limit, ppm	Precision, percent relative standard deviation	References
Arsenic (As)	stream sediment	ICP	5	3.5-20	Crock and others, 1987.
Antimony (Sb)	stream sediment	ICP	2	6.4-11	
Bismuth (Bi)	stream sediment	ICP	2	2.2-11.9	
Cadmium (Cd)	stream sediment	ICP	0.1	2.8-8.8	
Zinc (Zn)	stream sediment	ICP	2	1.4-11.9	
Uranium (U)	stream sediment	F	0.1	6.9-14.2	Centanni and others, 1956; O'Leary and Meier, 1986.
Gold (Au)	stream sediment	AAG	0.001	3.7-21.1	Meier, 1980; O'Leary and Meier, 1986.
Gold (Au)	raw panned concentrate	AAF	0.05*	9.3-42.5	Thompson and others, 1968; O'Leary and Meier, 1986.

*Based on 10-g sample

TABLE 4.--Results of analyses of stream-sediment samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada

[N, not detected; <, detected below concentration shown for emission spectrographic analyses, less than concentration shown for other methods; >, greater than concentration shown. Methods: Au-a, graphite furnace atomic absorption spectroscopy; As-i, Bi-i, Cd-i, Sb-i, Zn-i, inductively coupled plasma-atomic emission spectroscopy; U-f, ultraviolet fluorimetry; others, emission spectrography. Concentrations in ppm except Ca, Fe, Mg, and Ti, which are weight percent]

Sample	Latitude	Longitude	Ca	Fe	Mg	Ti	Ag	B	Ba	Be	Co	Cr	Cu	La	Mn	Mo	Nb
							El Dorado										
ELD001	35 43 12	114 49 38	1.5	3	3.0	.3	N	<10	300	1.0	50	200	50	30	700	N	N
ELD002	35 44 27	114 50 15	1.5	3	3.0	.7	N	10	1,000	2.0	30	100	50	70	500	N	<20
ELD003	35 44 58	114 49 49	2.0	5	5.0	1.0	N	10	700	2.0	70	150	70	70	1,000	N	N
ELD004	35 47 1	114 49 4	1.0	2	1.0	.7	N	30	700	2.0	5	70	20	50	500	N	N
ELD005	35 47 20	114 49 20	1.5	2	2.0	.5	N	10	700	2.0	15	100	30	50	500	N	N
ELD006	35 45 55	114 49 34	1.5	3	1.5	.7	N	10	1,000	2.0	20	150	50	50	1,000	N	N
ELD007	35 46 32	114 49 49	1.0	2	1.0	.5	N	30	1,000	3.0	10	30	20	50	700	N	N
ELD008	35 47 7	114 49 54	2.0	3	1.5	.7	N	20	1,000	2.0	30	100	30	50	1,000	N	<20
ELD009	35 46 53	114 50 11	1.5	3	1.5	.7	N	15	1,000	2.0	20	70	30	50	700	N	<20
ELD010	35 50 8	114 48 33	2.0	3	2.0	.7	N	15	1,000	2.0	30	100	50	30	1,000	N	N
ELD011	35 48 54	114 47 37	1.5	3	3.0	.5	N	10	1,000	2.0	20	100	30	30	1,000	N	N
ELD012	35 48 38	114 48 34	1.5	3	2.0	.5	N	15	1,000	2.0	20	150	30	30	1,000	N	N
ELD013	35 48 38	114 48 38	2.0	3	2.0	.7	N	20	700	2.0	20	150	30	20	700	N	<20
ELD014	35 48 41	114 48 39	1.0	3	1.5	.5	N	20	500	1.5	30	150	30	70	700	N	N
ELD015	35 49 10	114 48 31	1.0	3	1.5	.5	N	20	500	1.5	30	100	30	20	700	N	<20
ELD016	35 49 38	114 48 33	2.0	3	1.5	.7	N	20	700	2.0	50	200	30	100	1,000	N	N
ELD017	35 42 26	114 48 59	1.5	3	3.0	.5	1.5	30	500	3.0	50	100	50	70	1,000	N	<20
ELD018	35 42 40	114 49 25	2.0	5	5.0	1.0	N	10	1,000	3.0	70	150	50	70	1,000	N	N
ELD046	35 42 43	114 48 20	1.0	3	2.0	.3	N	<10	700	5.0	20	70	30	50	500	N	<20
ELD176	35 47 6	114 46 8	1.5	2	2.0	.7	N	15	700	3.0	15	100	50	50	700	N	N
ELD177	35 43 15	114 47 17	1.0	3	2.0	.5	N	20	500	5.0	20	70	30	50	700	N	N
ELD178	35 44 19	114 47 2	1.0	3	2.0	.5	N	20	1,000	3.0	20	50	30	100	700	N	<20
ELD179	35 44 35	114 45 42	1.0	5	2.0	.7	N	20	1,000	3.0	20	100	30	100	1,000	N	<20
ELD180	35 44 38	114 45 42	1.5	3	1.5	.5	N	20	1,000	3.0	20	70	100	70	1,000	N	N
ELD181	35 45 31	114 48 34	2.0	5	3.0	.1	.7	10	1,000	2.0	70	100	70	100	1,000	N	<20
ELD182	35 45 30	114 48 30	1.5	3	2.0	.1	N	10	1,000	2.0	30	150	50	100	1,500	N	<20
ELD183	35 46 5	114 47 32	2.0	5	5.0	.7	N	10	1,000	1.5	30	100	50	50	1,000	N	<20
ELD184	35 46 3	114 47 36	2.0	5	3.0	>1.0	N	20	1,000	2.0	50	100	50	100	700	N	<20
ELD185	35 45 49	114 46 47	1.5	5	3.0	.7	N	30	1,000	3.0	30	100	30	150	1,000	N	<20
ELD206	35 45 55	114 46 46	1.5	2	1.5	.3	N	20	1,000	2.0	20	50	30	30	700	N	N
ELD207	35 45 55	114 46 10	1.5	5	3.0	.7	N	10	1,000	2.0	20	100	50	50	1,000	N	N
ELD208	35 45 51	114 46 11	1.0	7	2.0	.7	N	15	500	2.0	50	70	50	70	1,000	N	<20
							Ireteba Peaks										
IRE019	35 34 43	114 50 52	1.0	3	1.5	.5	N	15	1,000	5.0	20	70	30	70	700	<5	N
IRE020	35 34 56	114 51 10	1.0	3	1.0	.5	N	10	1,000	5.0	20	70	20	70	500	N	N
IRE021	35 35 8	114 51 23	2.0	5	3.0	.7	N	10	1,000	2.0	30	70	50	100	700	N	N
IRE022	35 35 38	114 51 47	2.0	5	3.0	.5	N	<10	1,500	3.0	20	70	30	70	700	N	N
IRE023	35 36 1	114 51 34	1.5	3	3.0	.5	N	10	1,500	3.0	20	70	50	100	700	N	N
IRE024	35 36 23	114 51 34	1.5	3	2.0	.5	N	<10	1,500	3.0	20	70	30	70	500	N	N
IRE025	35 36 36	114 52 6	1.5	3	3.0	.5	N	<10	1,000	2.0	20	70	50	70	700	N	N
IRE026	35 37 11	114 50 59	1.5	5	3.0	.5	N	10	1,000	2.0	20	100	50	50	1,000	N	N
IRE027	35 37 23	114 51 5	1.0	7	3.0	.7	N	<10	1,000	3.0	50	50	50	100	1,000	N	N
IRE028	35 37 37	114 51 29	1.5	7	3.0	1.0	N	10	1,000	3.0	70	70	70	70	700	N	<20

TABLE 4.--Results of analyses of stream-sediment samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Ni	Pb	Sc	Sn	Sr	V	Y	Zn	Zr	As-i	Bi-i	Cd-i	Sb-i	Zn-i	Au-a	U-f
								El Dorado--Continued								
ELD001	150	20	20	N	200	150	20	<200	150	7	<2	1.1	<2	86	.001	1.40
ELD002	100	30	15	N	700	100	30	N	200	5	<2	.8	<2	55	.001	1.30
ELD003	200	20	30	<10	700	200	30	<200	200	7	<2	.9	<2	75	.001	1.60
ELD004	20	30	10	N	500	100	20	<200	200	<5	<2	.8	<2	60	.002	1.40
ELD005	50	20	10	N	500	70	20	N	150	7	<2	.7	<2	56	.001	1.10
ELD006	50	20	15	N	700	150	20	<200	200	<5	<2	.9	<2	70	<.001	1.10
ELD007	20	20	10	N	500	100	20	<200	200	<5	<2	.5	<2	54	.001	1.00
ELD008	70	20	15	N	700	200	30	<200	300	<5	<2	.8	<2	57	<.001	1.10
ELD009	50	20	10	N	700	150	20	<200	200	<5	2	.6	<2	57	.001	.70
ELD010	70	20	15	N	500	150	30	<200	150	12	<2	.7	<2	52	.001	.90
ELD011	50	20	15	N	500	100	20	<200	70	11	<2	.8	<2	57	<.001	.85
ELD012	70	30	15	N	700	100	20	<200	200	5	<2	.8	<2	55	.001	1.10
ELD013	70	30	15	N	500	150	20	<200	500	<5	<2	.9	<2	59	.001	1.30
ELD014	100	30	15	N	200	150	20	N	200	<5	<2	1.0	<2	69	.001	1.50
ELD015	100	20	15	N	200	100	20	N	200	5	<2	.8	<2	53	.001	.80
ELD016	100	20	20	N	500	150	20	<200	100	12	<2	1.3	<2	73	.001	.75
ELD017	150	30	20	<10	500	150	30	<200	300	7	<2	.8	<2	67	.033	1.80
ELD018	200	20	30	<10	700	200	30	<200	150	8	<2	1.0	<2	73	.003	1.40
ELD046	100	30	15	N	500	70	20	N	200	6	<2	.9	<2	56	.003	1.40
ELD176	70	20	15	N	700	70	15	<200	150	11	<2	.9	<2	69	.001	1.00
ELD177	50	30	15	N	500	100	20	N	100	5	<2	.7	<2	62	.001	1.50
ELD178	50	30	15	N	700	70	30	N	200	7	<2	.6	<2	60	.001	1.50
ELD179	70	50	20	N	300	100	50	N	200	16	<2	.7	<2	86	.001	1.20
ELD180	70	50	10	N	500	70	20	N	300	23	<2	.9	3	79	.003	1.10
ELD181	150	30	30	<10	1,000	150	30	<200	200	<5	<2	.9	<2	72	.001	1.10
ELD182	100	30	15	<10	500	150	30	<200	500	<5	<2	1.3	<2	96	.001	.90
ELD183	150	20	15	N	700	100	20	<200	200	13	<2	.9	<2	72	.001	1.20
ELD184	70	20	20	<10	1,000	150	50	N	500	<5	<2	.7	<2	62	.003	.90
ELD185	100	50	20	N	150	100	70	N	500	5	<2	.8	<2	67	.003	1.30
ELD206	100	20	7	N	700	70	15	<200	100	33	<2	1.1	<2	71	.001	1.00
ELD207	70	20	15	N	500	150	30	<200	300	15	<2	.9	<2	64	.002	1.10
ELD208	150	20	20	N	200	200	50	N	1,000	10	<2	1.6	<2	82	.001	1.00
								Ireteba Peaks--Continued								
IRE019	100	30	10	N	500	70	20	<200	150	<5	<2	.6	<2	62	.003	.75
IRE020	70	20	10	N	500	100	20	N	200	<5	<2	.5	<2	43	.001	.70
IRE021	100	30	15	N	700	100	30	<200	200	<5	<2	.9	<2	49	.001	.90
IRE022	70	20	10	N	1,000	70	30	<200	200	<5	<2	.5	<2	44	.002	.75
IRE023	70	15	10	N	1,000	100	30	N	300	<5	<2	.7	<2	46	.004	.80
IRE024	70	30	10	N	700	100	20	<200	200	<5	<2	.6	<2	49	.005	1.00
IRE025	70	20	10	N	500	70	20	N	300	<5	<2	.9	<2	60	.002	.65
IRE026	70	20	10	<10	1,000	150	20	<200	300	<5	<2	1.6	<2	60	.002	1.40
IRE027	150	15	20	<10	1,000	150	30	<200	200	<5	<2	.8	<2	49	.001	.70
IRE028	200	20	20	<10	700	150	30	<200	500	<5	<2	.9	<2	65	.001	1.10

TABLE 4.--Results of analyses of stream-sediment samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Latitude	Longitude	Ca	Fe	Mg	Ti	Ag	B	Ba	Be	Co	Cr	Cu	La	Mn	Mo	Nb
							Ireteba Peaks--Continued										
IRE029	35 34 48	114 46 25	1.5	5	2.0	1.0	N	15	1,500	3.0	30	30	50	70	700	N	N
IRE030	35 34 47	114 46 34	.7	2	.7	.3	N	<10	700	3.0	5	20	15	20	700	N	N
IRE031	35 34 23	114 46 30	1.0	3	1.0	.5	N	20	1,500	2.0	15	20	70	70	1,000	N	N
IRE032	35 34 24	114 46 46	.7	3	1.0	.3	N	15	1,000	1.5	10	30	30	50	1,000	N	N
IRE186	35 39 36	114 48 26	1.0	3	1.5	.5	N	<10	700	5.0	15	70	30	70	700	5	<20
IRE187	35 39 30	114 46 58	1.5	5	3.0	.7	N	<10	500	3.0	30	30	50	70	700	N	<20
IRE188	35 39 12	114 46 26	2.0	5	3.0	1.0	N	15	700	3.0	20	70	30	100	1,000	N	<20
IRE189	35 37 52	114 48 36	1.0	5	.7	1.0	N	10	500	3.0	10	50	20	300	700	<5	20
IRE190	35 37 49	114 48 35	1.5	5	1.5	.3	N	<10	1,000	3.0	15	70	30	100	1,000	N	N
IRE191	35 37 47	114 48 24	1.5	5	5.0	.5	N	10	500	2.0	20	100	30	100	1,000	N	N
IRE192	35 37 27	114 48 15	1.0	7	2.0	.7	N	20	700	3.0	30	150	30	150	1,000	N	<20
IRE193	35 36 53	114 47 28	1.0	5	5.0	.7	N	15	700	2.0	50	100	50	100	1,000	N	N
IRE194	35 37 9	114 46 43	1.0	5	3.0	.7	N	10	1,000	3.0	30	50	30	100	1,500	N	<20
IRE195	35 33 20	114 47 31	2.0	2	2.0	.2	N	20	1,000	2.0	10	50	20	50	700	N	N
IRE196	35 33 15	114 47 54	1.5	3	1.0	.5	N	20	700	3.0	15	50	20	70	500	N	<20
IRE197	35 33 20	114 48 38	1.5	2	5.0	.5	N	15	1,000	3.0	20	100	20	70	1,000	N	<20
IRE198	35 34 6	114 47 32	1.0	2	.7	.2	N	15	1,000	2.0	10	30	15	50	1,000	N	N
IRE199	35 34 18	114 47 8	1.5	5	2.0	.7	N	10	700	2.0	30	70	50	100	1,500	N	<20
IRE200	35 35 16	114 46 45	2.0	5	3.0	.5	N	10	1,500	3.0	30	20	30	50	1,500	N	N
IRE201	35 35 15	114 46 46	2.0	5	2.0	1.0	N	15	700	3.0	50	50	50	70	1,000	N	<20
IRE202	35 35 32	114 45 33	1.5	7	2.0	1.0	N	10	500	2.0	20	30	30	70	700	N	N
IRE203	35 35 39	114 45 16	2.0	5	3.0	.7	N	10	1,500	3.0	20	50	50	50	1,000	N	<20
IRE204	35 36 45	114 46 16	1.5	7	5.0	1.0	N	15	700	3.0	70	70	70	100	1,500	N	<20
IRE205	35 37 1	114 46 3	2.0	3	7.0	.7	N	15	1,500	2.0	20	150	30	70	1,500	N	N

TABLE 4.--Results of analyses of stream-sediment samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Ni	Pb	Sc	Sn	Sr	V	Y	Zn	Zr	As-i	Bi-i	Cd-i	Sb-i	Zn-i	Au-a	U-f
								Ireteba Peaks--Continued								
IRE029	70	20	15	N	700	150	30	<200	500	<5	<2	.7	<2	54	.001	1.00
IRE030	15	30	5	N	300	50	20	N	150	<5	<2	.3	<2	51	.001	.80
IRE031	20	50	7	N	500	70	20	<200	150	<5	<2	.6	<2	88	.003	.60
IRE032	20	70	5	N	200	70	20	<200	150	<5	<2	.8	<2	80	.001	.80
IRE186	50	70	10	N	200	70	30	<200	300	<5	<2	.9	<2	89	.001	3.00
IRE187	50	30	10	<10	150	70	30	<200	200	5	<2	1.1	<2	64	.001	3.20
IRE188	50	20	15	N	200	100	50	N	1,000	5	<2	1.8	<2	61	.001	4.30
IRE189	20	30	10	<10	100	100	100	N	1,000	<5	<2	1.2	<2	64	.001	12.00
IRE190	30	20	10	N	500	70	20	<200	150	<5	<2	1.4	<2	56	<.001	3.70
IRE191	100	30	10	N	300	70	30	N	300	6	<2	1.3	<2	60	.001	4.50
IRE192	100	20	15	<10	700	300	50	<200	700	<5	<2	1.9	<2	38	.001	2.50
IRE193	200	20	20	N	300	150	50	<200	500	<5	<2	2.8	<2	33	.001	1.90
IRE194	100	20	15	N	500	100	70	<200	500	<5	<2	1.4	<2	61	.001	1.30
IRE195	30	30	7	N	700	50	20	<200	150	<5	<2	.8	<2	48	.001	1.60
IRE196	50	20	10	N	200	100	30	N	300	<5	<2	1.0	<2	56	.002	1.50
IRE197	150	20	15	N	300	70	20	N	300	<5	<2	.9	<2	42	.002	1.10
IRE198	30	100	5	N	200	50	20	N	150	<5	<2	.8	<2	70	.002	1.90
IRE199	100	15	20	<10	700	200	50	<200	500	<5	<2	.6	<2	82	.002	1.20
IRE200	20	30	15	N	1,000	100	50	<200	150	<5	<2	1.8	<2	37	.001	1.50
IRE201	100	30	50	N	700	150	50	<200	300	<5	<2	.9	<2	66	.001	.65
IRE202	70	20	30	N	300	100	30	N	200	<5	<2	1.8	<2	62	.020	.90
IRE203	70	20	30	N	1,000	100	20	N	200	<5	<2	1.2	<2	42	.001	.90
IRE204	200	30	70	<10	200	200	50	N	1,000	<5	<2	.9	<2	47	.001	.75
IRE205	100	30	50	N	1,000	100	20	<200	150	<5	<2	1.9	<2	69	.008	2.70

TABLE 5.--Results of analyses of nonmagnetic heavy-mineral-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada

[N, not detected; <, detected below limit of determination shown; >, greater than upper limit of determination. Analyses by emission spectrography. Concentrations in ppm except Ca, Fe, Mg, Na, P, and Ti, which are weight percent]

Sample	Latitude	Longitude	Ca	Fe	Mg	Na	P	Ti	Ag	As	Ba	Be	Bi	Co	Cr
							El Dorado								
ELD001H	35 43 12	114 49 38	20.0	.7	1.50	<.5	20.0	.10	N	N	150	N	N	N	<20
ELD002H	35 44 27	114 50 15	2.0	.7	1.00	.5	1.5	.70	<1	N	1,500	N	N	N	20
ELD003H	35 44 58	114 49 49	15.0	1.0	1.50	.5	15.0	.15	N	N	200	N	N	N	20
ELD004H	35 47 1	114 49 4	3.0	2.0	1.50	<.5	1.0	1.00	N	N	300	N	N	N	50
ELD005H	35 47 20	114 49 20	7.0	1.0	1.00	1.5	5.0	.30	N	N	500	N	N	N	20
ELD006H	35 45 55	114 49 34	7.0	1.5	1.50	<.5	7.0	.70	N	N	150	3	N	N	30
ELD007H	35 46 32	114 49 49	2.0	.7	.50	<.5	.7	1.00	N	N	500	N	N	N	<20
ELD008H	35 47 7	114 49 54	10.0	.7	.70	.5	7.0	1.00	N	N	300	N	N	N	<20
ELD009H	35 46 53	114 50 11	7.0	1.5	1.00	.5	5.0	.70	N	N	300	2	N	N	30
ELD010H	35 50 8	114 48 33	1.0	.7	.50	.7	<.5	.50	N	N	200	N	N	N	<20
ELD011H	35 48 54	114 47 37	5.0	1.0	1.00	.7	2.0	.70	N	N	500	N	N	N	20
ELD012H	35 48 38	114 48 34	1.5	.7	.70	.7	.7	.70	N	N	300	N	N	N	20
ELD013H	35 48 38	114 48 38	1.0	.5	.50	.7	.5	.70	N	N	300	N	N	N	<20
ELD014H	35 48 41	114 48 39	3.0	.7	.70	1.0	1.5	.50	N	N	300	N	N	N	<20
ELD015H	35 49 10	114 48 31	1.5	1.0	1.00	1.5	.7	.70	N	N	500	N	N	N	<20
ELD016H	35 49 38	114 48 33	3.0	1.0	1.00	2.0	.7	.50	N	N	300	N	N	N	<20
ELD017H	35 42 26	114 48 59	10.0	.5	1.00	N	>20.0	.10	5	N	1,000	N	N	N	N
ELD018H	35 42 40	114 49 25	15.0	.7	.70	<.5	20.0	.10	N	N	150	N	N	N	<20
ELD046H	35 42 43	114 48 20	10.0	1.0	1.00	<.5	10.0	.50	<1	N	1,000	2	<20	N	<20
ELD176H	35 47 6	114 46 8	15.0	1.0	2.00	<.5	10.0	.70	N	N	1,000	N	N	N	200
ELD177H	35 43 15	114 47 17	15.0	.7	1.50	N	15.0	.70	N	N	300	N	N	N	150
ELD178H	35 44 19	114 47 2	7.0	1.0	.70	N	2.0	1.00	N	N	>10,000	<2	N	N	100
ELD179H	35 44 35	114 45 42	1.0	3.0	.50	N	.7	>2.00	N	N	10,000	<2	N	<20	150
ELD180H	35 44 38	114 45 42	3.0	2.0	1.00	N	1.5	>2.00	N	N	10,000	<2	N	<20	300
ELD181H	35 45 31	114 48 34	10.0	1.0	.70	<.5	10.0	.50	N	N	2,000	N	N	N	50
ELD182H	35 45 30	114 48 30	10.0	1.5	.70	.5	10.0	.70	N	N	1,000	5	N	N	30
ELD183H	35 46 5	114 47 32	7.0	.7	1.00	N	7.0	.50	N	N	>10,000	N	N	N	200
ELD184H	35 46 3	114 47 36	7.0	.5	.20	.7	5.0	.50	N	N	1,500	2	N	N	N
ELD185H	35 45 49	114 46 47	2.0	.7	.20	N	1.0	2.00	N	N	>10,000	N	N	N	50
ELD206H	35 45 55	114 46 46	7.0	2.0	2.00	.5	1.5	1.00	N	500	10,000	N	N	N	500
ELD207H	35 45 55	114 46 10	7.0	1.0	1.50	N	2.0	1.00	N	N	5,000	N	N	N	300
ELD208H	35 45 51	114 46 11	7.0	1.0	.70	N	5.0	.70	N	N	>10,000	<2	N	N	150
							Ireteba Peaks								
IRE019H	35 34 43	114 50 52	3.0	.7	.30	N	10.0	.70	N	N	200	N	N	N	<20
IRE020H	35 34 56	114 51 10	2.0	1.0	.50	.5	1.5	1.50	N	N	700	2	N	N	20
IRE021H	35 35 8	114 51 23	7.0	1.0	.30	<.5	7.0	1.00	N	N	700	N	50	N	<20
IRE022H	35 35 38	114 51 47	5.0	.7	.30	.5	5.0	.70	N	N	1,000	N	N	N	<20
IRE023H	35 36 1	114 51 34	5.0	1.5	.50	<.5	3.0	1.00	N	N	500	N	N	N	20
IRE024H	35 36 23	114 51 34	10.0	1.5	.30	<.5	15.0	1.00	N	N	700	N	N	N	<20
IRE025H	35 36 36	114 52 6	10.0	1.0	.30	.5	15.0	.70	N	N	200	N	N	N	N
IRE026H	35 37 11	114 50 59	7.0	.7	.20	.7	10.0	.30	N	N	1,000	N	N	N	N
IRE027H	35 37 23	114 51 5	5.0	1.0	.10	<.5	10.0	1.50	N	N	500	N	N	N	N
IRE028H	35 37 37	114 51 29	7.0	3.0	.20	<.5	5.0	>2.00	N	N	700	N	N	N	<20

TABLE 5.--Results of analyses of nonmagnetic heavy-mineral-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Cu	Ga	La	Mn	Mo	Nb	Ni	Pb	Sc	Sn	Sr	Th	V	W	Y	Zr
El Dorado--Continued																
ELD001H	N	N	2,000	500	N	N	<10	N	<10	N	1,000	N	150	N	300	>2,000
ELD002H	N	N	100	50	N	N	<10	5,000	N	N	<200	N	70	N	100	>2,000
ELD003H	N	N	700	150	N	N	<10	150	N	N	500	N	70	N	200	>2,000
ELD004H	N	<10	200	200	N	<50	10	50	<10	N	<200	N	100	N	300	>2,000
ELD005H	10	10	150	70	N	<50	<10	<20	N	N	200	N	50	N	100	>2,000
ELD006H	15	N	300	150	N	N	<10	30	N	N	<200	N	100	N	200	>2,000
ELD007H	N	<10	100	50	N	N	N	20	<10	N	<200	N	50	N	200	>2,000
ELD008H	N	<10	500	70	N	N	N	<20	<10	N	<200	N	70	N	200	>2,000
ELD009H	N	<10	300	100	N	<50	<10	5,000	<10	N	<200	N	100	N	200	>2,000
ELD010H	N	N	N	20	N	N	N	50	N	N	N	N	50	N	70	>2,000
ELD011H	N	N	100	70	N	<50	<10	N	N	N	<200	N	70	N	100	>2,000
ELD012H	N	N	<100	30	N	<50	<10	N	N	N	N	N	50	N	150	>2,000
ELD013H	N	N	N	20	N	<50	N	N	N	N	N	N	30	N	100	>2,000
ELD014H	10	N	<100	30	N	N	<10	<20	N	N	<200	N	50	N	100	>2,000
ELD015H	10	<10	100	100	N	N	<10	20	N	N	N	N	50	N	200	>2,000
ELD016H	<10	10	<100	50	N	<50	N	<20	N	N	N	N	50	N	70	>2,000
ELD017H	N	N	1,500	300	N	N	N	N	N	N	700	N	50	N	300	>2,000
ELD018H	N	N	1,000	150	N	N	N	N	N	N	500	N	50	N	200	2,000
ELD046H	<10	N	500	150	N	N	N	20	N	N	200	N	100	N	200	>2,000
ELD176H	<10	N	300	200	N	N	15	N	<10	70	200	N	70	N	200	>2,000
ELD177H	10	N	500	500	<10	<50	15	70	N	N	200	N	100	N	200	>2,000
ELD178H	<10	N	200	200	N	<50	<10	N	N	N	200	N	70	N	150	>2,000
ELD179H	N	<10	100	300	N	50	<10	300	<10	N	N	N	100	N	100	700
ELD180H	N	<10	300	500	N	50	30	200	10	N	<200	N	150	N	150	>2,000
ELD181H	N	N	500	300	N	N	<10	N	N	N	200	N	70	N	150	>2,000
ELD182H	N	<10	700	500	N	<50	<10	<20	<10	N	200	N	100	N	300	>2,000
ELD183H	N	N	500	200	N	N	<10	N	N	N	500	N	50	N	150	>2,000
ELD184H	N	N	300	150	N	N	N	N	N	N	<200	N	50	N	150	>2,000
ELD185H	N	N	100	150	<10	<50	N	<20	N	N	200	N	100	300	100	2,000
ELD206H	10	N	150	500	<10	<50	50	200	N	N	<200	N	100	N	100	>2,000
ELD207H	N	N	150	100	N	N	15	N	N	N	<200	N	50	N	150	>2,000
ELD208H	N	N	200	200	N	N	<10	50	N	N	200	N	70	<50	150	>2,000
Ireteba Peaks--Continued																
IRE019H	15	N	150	70	N	N	<10	500	N	N	<200	N	100	N	300	>2,000
IRE020H	20	<10	200	70	N	<50	<10	100	<10	N	<200	N	100	N	500	>2,000
IRE021H	10	N	150	150	N	N	N	700	<10	N	<200	N	200	N	200	>2,000
IRE022H	N	<10	100	100	N	N	N	100	N	N	N	N	100	N	150	>2,000
IRE023H	<10	N	200	100	N	<50	N	50	<10	N	<200	N	100	N	300	>2,000
IRE024H	50	N	300	500	N	<50	N	300	<10	N	<200	N	200	N	300	>2,000
IRE025H	10	<10	150	200	N	N	N	20	N	N	<200	N	70	N	200	>2,000
IRE026H	15	N	150	100	N	N	N	200	N	N	<200	N	50	200	150	>2,000
IRE027H	<10	N	500	150	N	<50	N	100	N	N	N	N	100	N	150	>2,000
IRE028H	N	N	1,500	300	N	<50	<10	<20	<10	20	N	N	150	N	500	>2,000

TABLE 5.--Results of analyses of nonmagnetic heavy-mineral-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Latitude	Longitude	Ca	Fe	Mg	Na	P	Ti	Ag	As	Ba	Be	Bi	Co	Cr
						Ireteba Peaks--Continued									
IRE029H	35 34 48	114 46 25	10.0	5.0	.30	<.5	15.0	>2.00	1	N	7,000	N	N	N	20
IRE030H	35 34 47	114 46 34	5.0	5.0	.20	.7	1.5	2.00	N	N	5,000	N	N	N	<20
IRE031H	35 34 23	114 46 30	3.0	2.0	.20	N	1.5	1.00	N	N	>10,000	N	N	N	<20
IRE032H	35 34 24	114 46 46	5.0	1.0	.20	<.5	1.5	1.50	N	N	>10,000	N	N	N	<20
IRE186H	35 39 36	114 48 26	7.0	1.0	.20	N	2.0	2.00	N	N	700	N	N	N	<20
IRE187H	35 39 30	114 46 58	7.0	2.0	.30	N	.5	>2.00	N	N	500	N	N	<20	30
IRE188H	35 39 12	114 46 26	5.0	1.5	.20	N	1.5	>2.00	N	N	700	N	N	<20	<20
IRE189H	35 37 52	114 48 36	7.0	1.5	.15	N	1.5	>2.00	N	N	150	N	N	N	N
IRE190H	35 37 49	114 48 35	5.0	1.5	.07	N	1.0	>2.00	N	N	150	N	N	N	<20
IRE191H	35 37 47	114 48 24	7.0	1.0	.20	N	3.0	2.00	N	N	2,000	N	N	N	<20
IRE192H	35 37 27	114 48 15	7.0	1.0	.15	N	2.0	>2.00	N	N	1,000	N	N	N	<20
IRE193H	35 36 53	114 47 28	5.0	1.0	.20	<.5	1.5	1.00	N	N	200	N	N	30	<20
IRE194H	35 37 9	114 46 43	7.0	1.0	.20	N	2.0	2.00	N	N	1,500	N	N	N	<20
IRE195H	35 33 20	114 47 31	10.0	1.5	.20	N	5.0	1.50	N	N	3,000	N	N	N	20
IRE196H	35 33 15	114 47 54	10.0	1.5	.20	N	10.0	2.00	N	N	700	N	N	N	70
IRE197H	35 33 20	114 48 38	7.0	2.0	.50	N	5.0	2.00	N	N	700	N	N	N	30
IRE198H	35 34 6	114 47 32	10.0	.3	.20	N	15.0	.70	N	N	10,000	N	N	N	N
IRE199H	35 34 18	114 47 8	10.0	2.0	.30	N	10.0	1.50	N	N	>10,000	N	N	N	50
IRE200H	35 35 16	114 46 45	7.0	2.0	.07	N	3.0	>2.00	N	N	7,000	N	N	N	30
IRE201H	35 35 15	114 46 46	10.0	1.5	.20	N	5.0	>2.00	N	N	2,000	N	N	N	N
IRE202H	35 35 32	114 45 33	7.0	1.5	.15	N	1.5	2.00	N	N	3,000	N	N	N	30
IRE203H	35 35 39	114 45 16	7.0	1.0	.10	N	2.0	2.00	N	N	300	N	N	N	20
IRE204H	35 36 45	114 46 16	7.0	1.5	.10	N	1.5	2.00	N	N	300	N	N	N	<20
IRE205H	35 37 1	114 46 3	5.0	1.0	.07	N	1.5	2.00	N	N	1,500	N	N	N	N

TABLE 5.--Results of analyses of nonmagnetic heavy-mineral-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Cu	Ga	La	Mn	Mo	Nb	Ni	Pb	Sc	Sn	Sr	Th	V	W	Y	Zr
								Ireteba Peaks--Continued								
IRE029H	N	N	2,000	700	N	50	<10	150	<10	20	<200	N	200	<50	500	>2,000
IRE030H	50	100	300	1,000	N	<50	<10	1,000	<10	N	<200	N	150	<50	300	>2,000
IRE031H	100	70	100	500	N	50	N	700	N	N	200	N	200	N	150	>2,000
IRE032H	200	N	150	300	N	50	N	10,000	N	N	500	N	700	N	200	>2,000
IRE186H	200	N	1,000	200	50	<50	N	300	10	20	N	<200	100	N	700	>2,000
IRE187H	100	N	1,500	500	10	70	N	200	<10	50	N	N	200	N	500	1,500
IRE188H	50	N	1,000	150	<10	N	N	50	10	N	N	N	150	N	700	>2,000
IRE189H	N	N	1,000	300	15	50	N	70	10	100	N	<200	100	N	1,000	>2,000
IRE190H	N	N	700	100	30	N	N	70	N	N	N	N	150	N	500	2,000
IRE191H	N	N	700	150	<10	<50	N	<20	<10	N	<200	N	70	N	300	>2,000
IRE192H	N	N	1,000	150	<10	N	N	150	<10	<20	<200	N	150	<50	500	>2,000
IRE193H	N	N	300	100	<10	N	N	70	N	<20	N	N	100	N	200	2,000
IRE194H	N	N	500	200	<10	<50	N	100	<10	N	<200	N	150	N	300	>2,000
IRE195H	N	N	500	700	10	50	N	N	N	N	<200	N	200	N	500	1,500
IRE196H	N	N	300	200	<10	50	N	N	N	N	200	N	150	N	150	>2,000
IRE197H	N	N	500	1,000	N	50	<10	<20	N	<20	N	N	150	N	500	>2,000
IRE198H	N	N	200	70	N	<50	N	200	N	N	300	N	100	N	150	2,000
IRE199H	N	N	200	1,500	10	50	20	<20	N	N	<200	N	150	N	300	2,000
IRE200H	N	N	1,500	300	10	50	N	<20	<10	N	<200	N	200	50	500	1,000
IRE201H	N	N	1,000	300	10	70	N	<20	N	N	<200	N	150	N	200	2,000
IRE202H	N	N	500	150	70	<50	N	2,000	N	N	N	N	200	N	200	>2,000
IRE203H	N	N	500	150	<10	N	N	N	N	N	N	N	150	<50	150	>2,000
IRE204H	N	N	500	150	<10	<50	N	<20	N	20	N	N	150	N	200	2,000
IRE205H	N	N	500	100	N	N	N	20	<10	N	N	N	150	N	300	>2,000

TABLE 6.--Results of analyses of raw panned-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada

[<, less than value shown. Au-a in ppm. Weight, grams of raw panned-concentrate sample. Analyses by atomic absorption]

Sample	Latitude	Longitude	Au-a	Weight
		El Dorado		
ELD001G	35 43 12	114 49 38	<.07	8.18
ELD002G	35 44 27	114 50 15	<.11	4.71
ELD003G	35 44 58	114 49 49	<.05	10.12
ELD004G	35 47 1	114 49 4	<.06	9.84
ELD005G	35 47 20	114 49 20	<.15	3.40
ELD006G	35 45 55	114 49 34	<.08	7.13
ELD007G	35 46 32	114 49 49	<.05	10.24
ELD008G	35 47 7	114 49 54	<.06	9.46
ELD009G	35 46 53	114 50 11	<.04	13.22
ELD010G	35 50 8	114 48 33	<.06	8.79
ELD011G	35 48 54	114 47 37	<.09	5.87
ELD012G	35 48 38	114 48 34	<.08	6.54
ELD013G	35 48 38	114 48 38	1.10	11.00
ELD014G	35 48 41	114 48 39	<.07	7.55
ELD015G	35 49 10	114 48 31	<.08	6.96
ELD016G	35 49 38	114 48 33	<.04	12.51
ELD017G	35 42 26	114 48 59	.34	7.16
ELD018G	35 42 40	114 49 25	<.05	11.69
ELD046G	35 42 43	114 48 20	.05	10.27
ELD176G	35 47 6	114 46 8	<.10	5.34
ELD177G	35 43 15	114 47 17	<.04	14.05
ELD178G	35 44 19	114 47 2	<.04	13.35
ELD179G	35 44 35	114 45 42	<.04	14.83
ELD180G	35 44 38	114 45 42	<.06	8.66
ELD181G	35 45 31	114 48 34	<.01	58.86
ELD182G	35 45 30	114 48 30	<.01	54.72
ELD183G	35 46 5	114 47 32	<.04	14.97
ELD184G	35 46 3	114 47 36	<.05	11.94
ELD185G	35 45 49	114 46 47	.10	19.20
ELD206G	35 45 55	114 46 46	<.06	8.49
ELD207G	35 45 55	114 46 10	<.17	3.03
ELD208G	35 45 51	114 46 11	<.02	46.31
		Ireteba Peaks		
IRE019G	35 34 43	114 50 52	<.06	9.54
IRE020G	35 34 56	114 51 10	<.05	11.38
IRE021G	35 35 8	114 51 23	.27	6.28
IRE022G	35 35 38	114 51 47	.07	8.37
IRE023G	35 36 1	114 51 34	<.08	6.78
IRE024G	35 36 23	114 51 34	<.08	6.74
IRE025G	35 36 36	114 52 6	<.07	7.37
IRE026G	35 37 11	114 50 59	.18	13.94
IRE027G	35 37 23	114 51 5	<.08	6.52
IRE028G	35 37 37	114 51 29	<.05	12.37

TABLE 6.--Results of analyses of raw panned-concentrate samples from the El Dorado and Ireteba Peaks Wilderness Study Areas, Clark County, Nevada--Continued

Sample	Latitude	Longitude	Au-a	Weight
		Ireteba Peaks--Continued		
IRE029G	35 34 48	114 46 25	.37	10.26
IRE030G	35 34 47	114 46 34	.42	6.64
IRE031G	35 34 23	114 46 30	<.09	5.90
IRE032G	35 34 24	114 46 46	.46	6.54
IRE186G	35 39 36	114 48 26	<.05	10.74
IRE187G	35 39 30	114 46 58	<.09	5.82
IRE188G	35 39 12	114 46 26	<.03	24.43
IRE189G	35 37 52	114 48 36	<.08	6.31
IRE190G	35 37 49	114 48 35	<.02	49.06
IRE191G	35 37 47	114 48 24	<.03	24.35
IRE192G	35 37 27	114 48 15	.07	52.92
IRE193G	35 36 53	114 47 28	<.02	41.03
IRE194G	35 37 9	114 46 43	<.03	16.76
IRE195G	35 33 20	114 47 31	<.07	7.69
IRE196G	35 33 15	114 47 54	<.04	15.49
IRE197G	35 33 20	114 48 38	<.05	10.17
IRE198G	35 34 6	114 47 32	.20	28.87
IRE199G	35 34 18	114 47 8	<.10	5.02
IRE200G	35 35 16	114 46 45	<.03	24.70
IRE201G	35 35 15	114 46 46	<.05	12.06
IRE202G	35 35 32	114 45 33	<.04	14.51
IRE203G	35 35 39	114 45 16	<.03	22.82
IRE204G	35 36 45	114 46 16	<.05	12.47
IRE205G	35 37 1	114 46 3	<.02	39.02