UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

ANALYSES OF STREAM-SEDIMENT, STREAM-SEDIMENT-CONCENTRATE, AND ROCK SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, CLARK COUNTY, NEVADA

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Analyses of stream-sediment, stream-sediment-concentrate, and rock samples, Virgin Mountains Instant Study Area, Clark County, Nevada

By Robert R. Carlson and Elmo F. Cooley

Introduction

The analytical data in this report are for samples collected in May, 1978, within the proposed boundaries of the study area and in the adjacent Bunkerville Mining District, Clark County, Nevada (see sample location map, figs. 1 & 2). Stream-sediment and stream-sediment-concentrate samples were taken at 42 intermittent and perennial streams. In addition, 42 rock samples were taken, mostly within the Bunkerville Mining District.

Stream Sample Type

The stream-sediment samples are the minus-80-mesh (0.18 mm screen opening) fraction of stream alluvium. Light-mineral concentrates were produced as the pan waste from the initial panning of washed (de-mudded), minus-8-mesh (2 mm screen opening) stream alluvium. Heavy-mineral concentrates were produced by continued panning to remove the bulk of light minerals and then treatment with bromoform (specific gravity 2.86) to remove the remaining light minerals. Magnetite was removed from the heavy-mineral concentrate with a hand magnet, and then the concentrate was separated using a Frantz Isodynamic Separator[1/] set at 0.6 amp to produce a moderately magnetic and a nonmagnetic fraction.

Sample Preparation

Rock samples were crushed in a steel-plate jaw crusher and then ground in a ceramic-plate rotary pulveriser to a flour consistency of approximately 125-mesh. Stream-sediment samples and the various fractions of the stream-sediment-concentrate samples were ground in a ceramic-plate rotary pulverisor to a flour consistency of approximately 125-mesh.

[1/] The use of trade names is for descriptive purposes only, and does not constitute endorsement of this product by the U. S. Geological Survey.

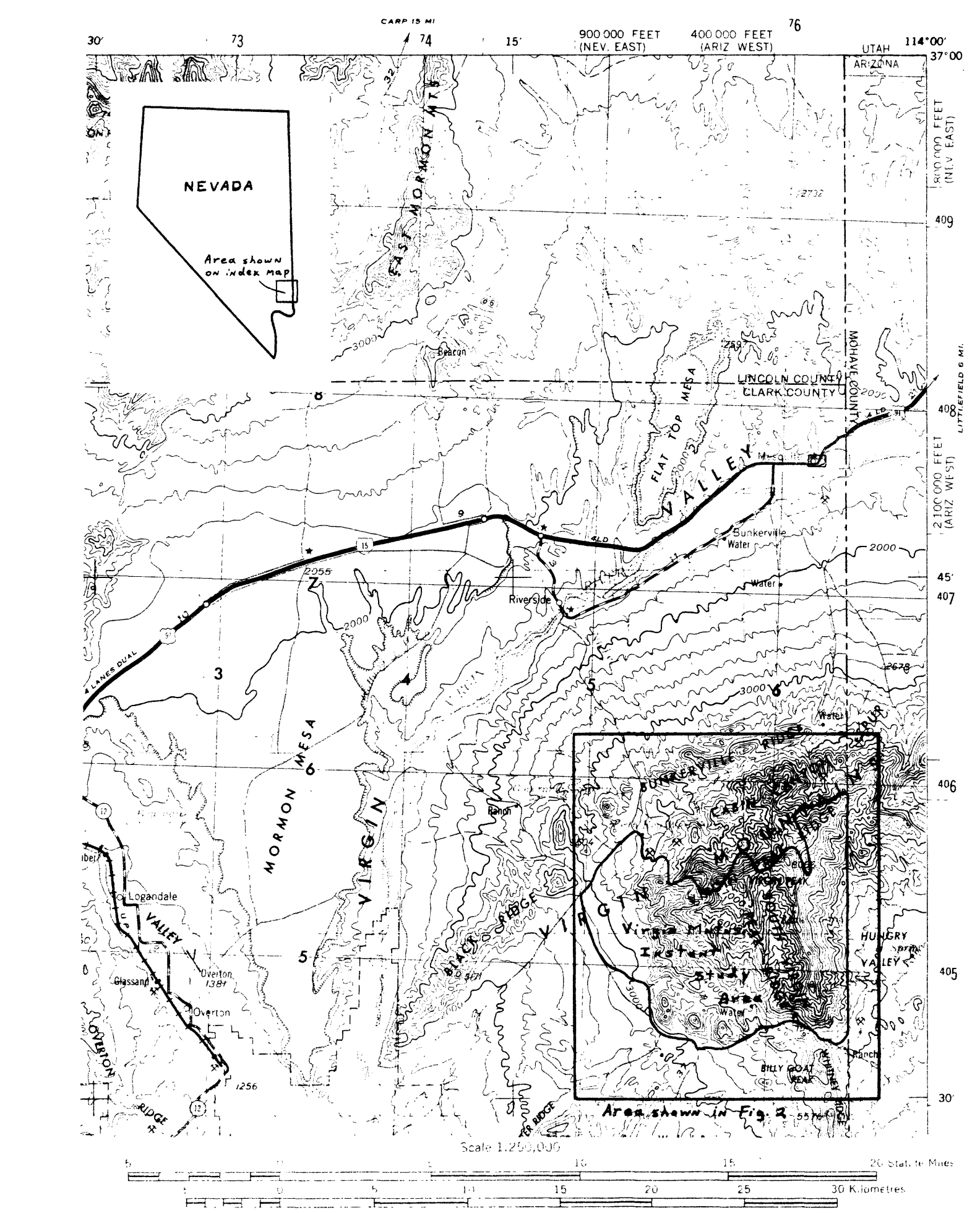

Fig. 1: Location of study area.

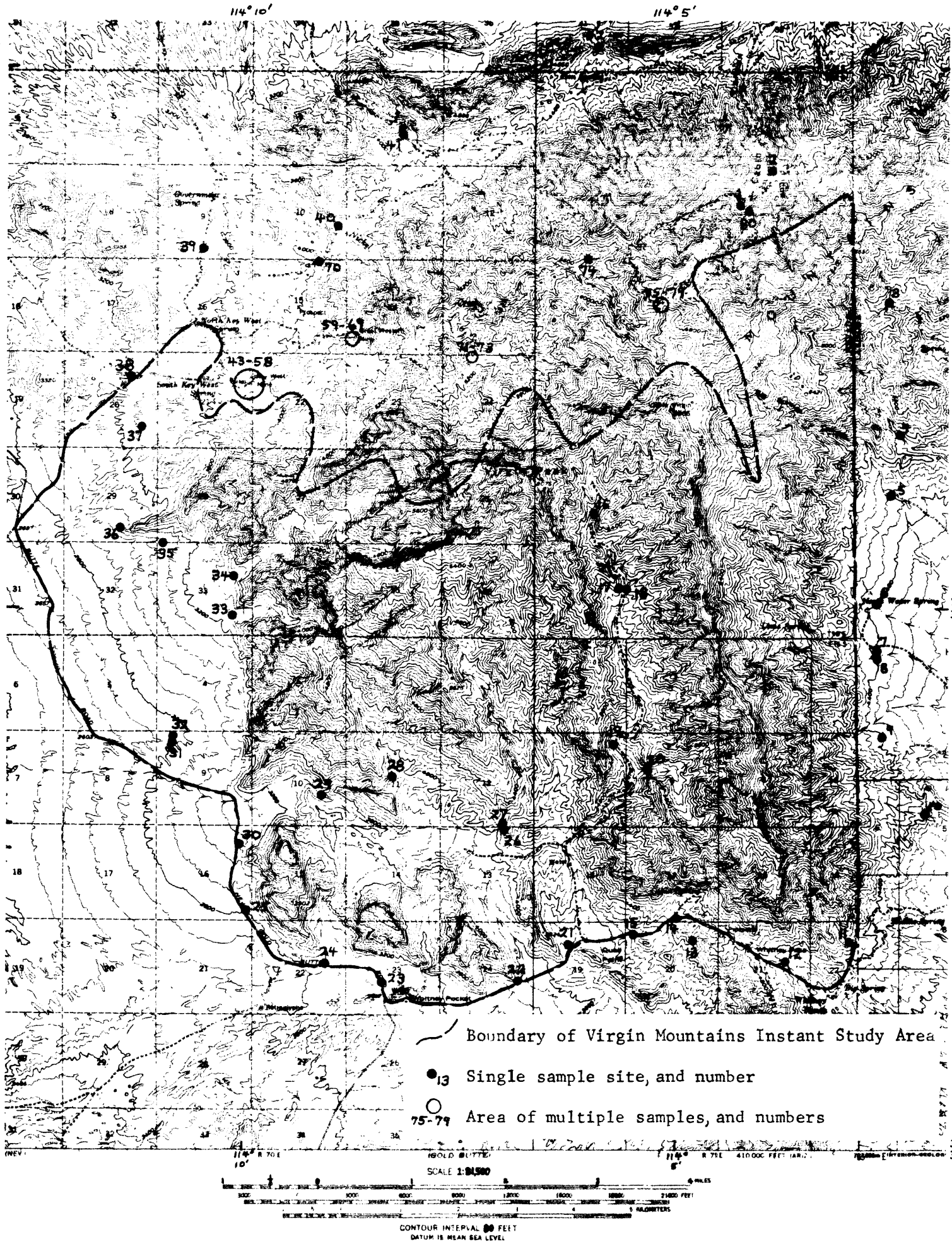

Fig. 2: Sample site locations and study area boundaries.

Sample Analysis

Thirty-element spectrographic analyses (Grimes and Marranzino, 1968) were performed on the stream-sediment samples, light-mineral-concentrate samples, the magnetic fraction of the heavy-mineral-concentrate samples, the nonmagnetic fraction of the heavy-mineral-concentrate samples, and the rock samples. In addition, fire-assay/emission spectrographic analyses for platinum-group elements and gold (Cooley and others, 1976) were performed on the magnetic fraction of the heavy-mineral-concentrate samples and on the rock samples.

Analytical Results

The data for the analyzed samples are given in tables 1 through 5. Elements determined by spectrographic analysis are preceded by the letter S; elements determined by fire-assay/spectrographic analysis are preceded by the letter F. Results of the semiquantitative emission spectrographic analyses are reported to the nearest number in the series 0.1, 0.15, 0.2, 0.3, 0.5, 0.7, and 1.0, which represent approximate midpoints of group data on a geometric scale. The assigned groups for the series will include quantitative values about 30 percent of the time. The fire-assay/emission spectrographic analyses are reported in numbers of the same series or in multiples thereof, depending on the sample size. The data should not be quoted without stating these limitations. All data are reported in parts per million (ppm) except where indicated as percent. The letter symbols following analytical values are: N, not detected; L, detected but below limits of determination; G, greater than value shown.

References Cited

Cooley, E. F., Curry, K. J., and Carlson, R. R., 1976, Analysis for the platinum-group metals and gold by fire-assay/emission spectrography: Applied Spectroscopy, v. 30, no. 1, p. 52-56.

Grimes, D. J., and Marranzino, A. P., 1968, Direct-current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, p. 1-6.

TABLE 1. -- DATA FOR STREAM-SEDIMENT SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	Latitude ° ′ ″	Longitude ° ′ ″	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn	S-Ag	S-As	S-Au	S-B	S-Ba
1	36:38:42	114:04:16	5	1.5	1.0	0.5	3000	0.5 N	200 N	10 N	500	500
2	36:39:03	114:03:54	5	1.5	1.0	0.5	2000	0.5 N	200 N	10 N	500	500
3	36:37:50	114:02:33	3	1.0	1.0	0.3	2000	0.5 N	200 N	10 N	100	500
4	36:36:37	114:02:25	5	1.0	1.0	0.5	1000	0.5 N	200 N	10 N	200	500
5	36:36:04	114:02:31	3	1.0	5	0.3	1000	0.5 N	200 N	10 N	150	500
6	36:35:04	114:02:42	3	1.5	3	0.3	1000	0.5 N	200 N	10 N	200	500
7	36:34:37	114:02:40	3	1.0	2	0.2	1000	0.5 N	200 N	10 N	200	500
8	36:34:36	114:02:40	5	2	1.5	0.5	1500	0.5 N	200 N	10 N	200	500
9	36:33:50	114:02:38	3	2	2	0.3	700	0.5 N	200 N	10 N	100	500
10	36:33:07	114:02:10	2	2	7	0.2	1000	0.5 N	200 N	10 N	150	500
11	36:31:57	114:03:00	1.0	5	10	0.10	300	0.5 N	200 N	10 N	20	150
12	36:31:46	114:03:44	5	3	10	0.2	2000	0.5 N	200 N	10 N	50	300
13	36:31:58	114:04:47	7	3	5	0.3	3000	0.5 N	200 N	10 N	50	500
14	36:32:10	114:04:58	5	5	7	0.2	2000	0.5 N	200 N	10 N	100	300
15	36:31:59	114:05:27	5	3	7	0.2	2000	0.5 N	200 N	10 N	50	300
16	36:35:54	114:05:57	2	3	5	0.2	500	0.5 N	200 N	10 N	50	300
17	36:35:10	114:05:40	2	3	7	0.2	700	0.5 N	200 N	10 N	50	300
18	36:35:10	114:05:34	2	5	10	0.2	500	0.5 N	200 N	10 N	50	300
19	36:33:46	114:05:42	1.5	5	7	0.10	200	0.5 N	200 N	10 N	50	150
20	36:33:31	114:05:17	1.5	3	7	0.2	300	0.5 N	200 N	10 N	50	300
21	36:31:53	114:06:13	1.5	3	7	0.15	300	0.5 N	200 N	10 N	50	200
22	36:31:34	114:06:49	1.5	2	7	0.2	300	0.5 N	200 N	10 N	30	500
23	36:31:33	114:08:25	0.7	0.7	1.5	0.15	200	0.5 N	200 N	10 N	30	500
24	36:31:44	114:09:02	0.7	1.0	2	0.2	200	0.5 N	200 N	10 N	30	300
25	36:32:14	114:09:58	1.5	2	7	0.2	500	0.5 N	200 N	10 N	50	500
26	36:32:57	114:06:58	2	3	10	0.2	500	0.5 N	200 N	10 N	100	300
27	36:33:00	114:07:02	1.0	2	15	0.2	300	0.5 N	200 N	10 N	50	200
28	36:33:28	114:08:19	1.5	3	10	0.2	300	0.5 N	200 N	10 N	30	300
29	36:33:15	114:09:04	1.0	2	7	0.15	200	0.5 N	200 N	10 N	30	200
30	36:32:48	114:10:03	1.0	3	10	0.2	300	0.5 N	200 N	10 N	30	200
31	36:33:47	114:10:47	1.0	2	7	0.15	200	0.5 N	200 N	10 N	30	200
32	36:33:50	114:10:46	1.0	2	10	0.10	200	0.5 N	200 N	10 N	30	200
33	36:34:55	114:10:07	1.5	3	7	0.15	200	0.5 N	200 N	10 N	50	200
34	36:35:18	114:10:05	2	7	15	0.2	500	0.5 N	200 N	10 N	50	300
35	36:35:37	114:10:54	2	3	7	0.2	700	0.5 N	200 N	10 N	100	500
36	36:35:45	114:11:26	3	1.0	1.0	0.2	500	0.5 N	200 N	10 N	100	500
37	36:36:41	114:11:10	5	2	2	0.5	2000	0.5 N	200 N	10 N	100	700
38	36:37:08	114:11:17	5	2	2	0.5	2000	0.5 N	200 N	10 N	100	700
39	36:38:19	114:10:29	5	2	2	0.3	2000	0.5 N	200 N	10 N	100	700
40	36:38:32	114:08:58	3	1.5	7	0.2	1000	0.5 N	200 N	10 N	150	500
41	36:39:23	114:08:12	5	2	2	0.3	1500	0.5 N	200 N	10 N	100	500
42	36:40:09	114:05:57	3	2	5	0.3	1000	0.5 N	200 N	10 N	50	500

TABLE 1 (cont.). -- DATA FOR STREAM-SEDIMENT SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Be	S-Bi	S-Cd	S-Co	S-Cr	S-Cu	S-La	S-Mo	S-Nb	S-Ni	S-Pb	S-Sb	S-Sc	S-Sn
1	3	10 N	20 N	20	70	50	100	5 N	20 L	50	50	100 N	20	10 N
2	3	10 N	20 N	30	100	50	150	10	20 L	50	50	100 N	20	10 N
3	2	10 N	20 N	20	70	30	100	5 N	20 L	20	50	100 N	20	10 N
4	3	10 N	20 N	20	70	50	150	5 N	20 L	50	50	100 N	20	10 N
5	2	10 N	20 N	15	70	50	100	5 N	20 L	30	50	100 N	15	10 N
6	3	10 N	20 N	15	70	50	100	5 N	20 L	20	70	100 N	15	10 N
7	3	10 N	20 N	15	70	50	100	5 N	20 L	30	50	100 N	15	10 N
8	2	10 N	20 N	15	70	50	100	5 N	20 L	20	70	100 N	20	10 N
9	3	10 N	20 N	20	100	50	50	5 N	20 L	70	50	100 N	20	10 N
10	2	10 N	20 N	10	70	30	50	5 N	20 L	20	70	100 N	10	10 N
11	1.0 L	10 N	20 N	5 L	50	10	30	5 N	20 L	10	30	100 N	5	10 N
12	1.0	10 N	20 N	15	100	50	100	5 N	20 L	70	70	100 N	20	10 N
13	1.0	10 N	20 N	20	150	70	150	5 N	20 L	30	70	100 N	20	10 N
14	1.5	10 N	20 N	15	70	50	50	5 N	20 L	20	50	100 N	20	10 N
15	1.0	10 N	20 N	10	50	50	50	5 N	20 L	10	30	100 N	20	10 N
16	1.0	10 N	20 N	10	50	15	50	5 N	20 L	15	50	100 N	10	10 N
17	1.0	10 N	20 N	10	70	20	50	5 N	20 L	15	50	100 N	10	10 N
18	1.0	10 N	20 N	10	70	20	50	5 N	20 L	15	50	100 N	10	10 N
19	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	10	30	100 N	5	10 N
20	1.0	10 N	20 N	5 L	70	20	50	5 N	20 L	20	50	100 N	7	10 N
21	1.0 L	10 N	20 N	5 L	50	15	50	5 N	20 L	10	30	100 N	5	10 N
22	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	10	20	100 N	5	10 N
23	1.0 L	10 N	20 N	5 L	30	5	50	5 N	20 L	10	20	100 N	5	10 N
24	1.0 L	10 N	20 N	5 L	30	5	50	5 N	20 L	10	20	100 N	5	10 N
25	1.0	10 N	20 N	10	50	15	50	5 N	20 L	15	50	100 N	10	10 N
26	1.0 L	10 N	20 N	5 L	70	20	50	5 N	20 L	15	30	100 N	10	10 N
27	1.0 L	10 N	20 N	5 L	50	7	50	5 N	20 L	10	20	100 N	5	10 N
28	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	15	30	100 N	5	10 N
29	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	15	20	100 N	5	10 N
30	1.0 L	10 N	20 N	5 L	70	10	50	5 N	20 L	10	20	100 N	5	10 N
31	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	10	30	100 N	5	10 N
32	1.0 L	10 N	20 N	5 L	50	7	50	5 N	20 L	10	30	100 N	5	10 N
33	1.0 L	10 N	20 N	5 L	50	10	50	5 N	20 L	15	50	100 N	5	10 N
34	1.0	10 N	20 N	5 L	70	20	50	5 N	20 L	20	70	100 N	7	10 N
35	1.5	10 N	20 N	10	70	30	50	5 N	20 L	20	50	100 N	10	10 N
36	2	10 N	20 N	15	70	30	50	5 N	20 L	30	20	100 N	15	10 N
37	2	10 N	20 N	30	150	50	100	5 N	20 L	100	50	100 N	20	10 N
38	2	10 N	20 N	30	200	200	150	5 N	20 L	200	50	100 N	30	10 N
39	2	10 N	20 N	30	200	70	100	5 N	20 L	150	50	100 N	20	10 N
40	1.0	10 N	20 N	20	100	50	50	5 N	20 L	50	20	100 N	15	10 N
41	2	10 N	20 N	30	150	70	100	5 N	20 L	70	30	100 N	20	10 N
42	1.5	10 N	20 N	20	100	50	100	5 N	20 L	50	30	100 N	20	10 N

TABLE 1 (cont.). -- DATA FOR STREAM-SEDIMENT SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th
1	200	200	50 N	50	200 N	200	100 N
2	200	200	50 N	70	200 N	300	100 N
3	200	150	50 N	70	200 N	200	100 N
4	200	100	50 N	70	200 N	500	100 N
5	200	100	50 N	50	200 N	300	100 N
6	200	100	50 N	50	200 N	300	100 N
7	200	100	50 N	50	200 N	200	100 N
8	150	100	50 N	200	200 N	300	100 N
9	200	100	50 N	50	200 N	300	100 N
10	200	100	50 N	50	200 N	200	100 N
11	150	30	50 N	15	200 N	100	100 N
12	150	100	50 N	50	200 N	300	100 N
13	200	200	50 N	50	200 N	500	100 N
14	200	100	50 N	30	200 N	200	100 N
15	200	100	50 N	50	200 N	500	100 N
16	150	50	50 N	20	200 N	200	100 N
17	150	50	50 N	20	200 L	300	100 N
18	150	50	50 N	20	200 N	200	100 N
19	150	30	50 N	10	200 N	150	100 N
20	150	50	50 N	20	200 N	150	100 N
21	200	30	50 N	10	200 N	150	100 N
22	200	50	50 N	20	200 L	500	100 N
23	200	20	50 N	10	200 L	300	100 N
24	200	30	50 N	10	200 L	500	100 N
25	300	70	50 N	30	200 L	300	100 N
26	200	70	50 N	30	200 L	500	100 N
27	300	50	50 N	20	200 L	300	100 N
28	200	50	50 N	20	200 L	300	100 N
29	200	50	50 N	20	200 N	200	100 N
30	200	50	50 N	20	200 N	500	100 N
31	200	50	50 N	15	200 N	300	100 N
32	150	50	50 N	10	200 N	300	100 N
33	150	30	50 N	10	200 N	150	100 N
34	150	50	50 N	20	200 N	200	100 N
35	200	100	50 N	20	200 N	300	100 N
36	200	100	50 N	20	200 N	300	100 N
37	300	200	50 N	50	200 N	300	100 N
38	500	150	50 N	50	200 N	300	100 N
39	500	150	50 N	50	200 N	300	100 N
40	300	150	50 N	50	200 N	100	100 N
41	300	150	50 N	50	200 N	300	100 N
42	200	150	50 N	50	200 N	200	100 N

TABLE 2. -- DATA FOR LIGHT-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	Latitude ° ' "	Longitude ° ' "	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn	S-Ag	S-As	S-Au	S-B	S-Ba
1	36:38:42	114:04:16	3	1.0	0.7	0.3	1000	1 N	500 N	20 N	100	500
2	36:39:03	114:03:54	5	1.5	1.0	0.3	1500	1 N	500 N	20 N	200	1000
3	36:37:50	114:02:33	3	0.7	1.0	0.3	1500	1 N	500 N	20 N	50	1000
4	36:36:37	114:02:25	3	1.0	1.0	0.3	1000	1 N	500 N	20 N	50	1000
5	36:36:04	114:02:31	3	1.0	10	0.3	1000	1 N	500 N	20 N	100	1000
6	36:35:04	114:02:42	2	0.5	1.0	0.2	300	1 N	500 N	20 N	50	1000
7	36:34:37	114:02:40	3	1.0	1.0	0.3	700	1 N	500 N	20 N	150	1000
8	36:34:36	114:02:40	2	1.0	2	0.2	500	1 N	500 N	20 N	50	200
9	36:33:50	114:02:38	5	1.5	2	0.3	700	1 N	500 N	20 N	100	1000
10	36:33:07	114:02:10	0.5	3	15	0.05	200	1 N	500 N	20 N	20	200
11	36:31:57	114:03:00	0.3	5	20	0.1	300	1 N	500 N	20 N	20	50
12	36:31:46	114:03:44	2	3	10	0.2	300	1 N	500 N	20 N	20	300
13	36:31:58	114:04:47	2	1.5	2	0.2	500	1 N	500 N	20 N	20	500
14	36:32:10	114:04:58	1.5	5	20	0.2	300	1 N	500 N	20 N	20	500
15	36:31:59	114:05:27	2	3	7	0.2	500	1 N	500 N	20 N	20	700
16	36:35:54	114:05:57	0.5	3	20	0.07	300	1 N	500 N	20 N	20	150
17	36:35:10	114:05:40	0.5	5	20	0.1	300	1 N	500 N	20 N	20	150
18	36:35:10	114:05:34	0.3	5	20	0.07	300	1 N	500 N	20 N	20	150
19	36:33:46	114:05:42	0.2	5	20	0.05	300	1 N	500 N	20 N	20	150
20	36:33:31	114:05:17	0.3	5	20	0.03	300	1 N	500 N	20 N	20	150
21	36:31:53	114:06:13	0.5	5	20	0.07	300	1 N	500 N	20 N	20	150
22	36:31:34	114:06:49	0.3	3	20	0.07	200	1 N	500 N	20 N	20	150
23	36:31:33	114:08:25	0.3	3	20	0.07	300	1 N	500 N	20 N	30	200
24	36:31:44	114:09:02	0.3	5	15	0.07	200	1 N	500 N	20 N	20	100
25	36:32:14	114:09:58	0.3	3	20	0.07	300	1 N	500 N	20 N	20	150
26	36:32:57	114:06:58	0.3	3	15	0.05	200	1 N	500 N	20 N	20 L	50 L
27	36:33:00	114:07:02	0.2	1.0	20	0.05	200	1 N	500 N	20 N	20	50 L
28	36:33:28	114:08:19	0.3	2	20	0.07	200	1 N	500 N	20 N	20	100
29	36:33:15	114:09:04	0.3	2	20	0.07	200	1 N	500 N	20 N	20	100
30	36:32:48	114:10:03	0.2	3	20	0.05	200	1 N	500 N	20 N	15	100
31	36:33:47	114:10:47	0.3	5	20	0.05	300	1 N	500 N	20 N	20	200
32	36:33:50	114:10:46	0.3	3	20	0.1	200	1 N	500 N	20 N	20	150
33	36:34:55	114:10:07	0.1	5	20	0.05	200	1 N	500 N	20 N	20	150
34	36:35:18	114:10:05	0.5	7	20	0.07	300	1 N	500 N	20 N	20	200
35	36:35:37	114:10:54	0.5	7	15	0.05	200	1 N	500 N	20 N	20	50
36	36:35:45	114:11:26	2	1.5	2	0.1	500	1 N	500 N	20 N	30	700
37	36:36:41	114:11:10	5	2	3	0.3	1000	1 N	500 N	20 N	50	1000
38	36:37:08	114:11:17	3	1.0	2	0.2	700	1 N	500 N	20 N	30	1000
39	36:38:19	114:10:29	3	1.5	2	0.2	1000	1 N	500 N	20 N	20	1000
40	36:38:32	114:08:58	2	0.7	1.0	0.15	500	1 N	500 N	20 N	20	500
41	36:39:23	114:08:12	3	1.5	2	0.2	700	1 N	500 N	20 N	20	1000
42	36:40:09	114:05:57	2	1.5	2	0.2	500	1 N	500 N	20 N	20	700

TABLE 2 (cont.). -- DATA FOR LIGHT-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Be	S-Bi	S-Cd	S-Co	S-Cr	S-Cu	S-La	S-Mo	S-Nb	S-Ni	S-Pb	S-Sb	S-Sc	S-Sn
1	5	20 N	50 N	10	30	20	50	10 N	50 N	30	50	200 N	10	20 N
2	7	20 N	50 N	10	50	30	70	10 N	50 N	30	70	200 N	20	20 N
3	2	20 N	50 N	10 L	20	20	50	10 N	50 N	20	50	200 N	15	20 N
4	2	20 N	50 N	10 L	50	15	50	10 N	50 N	10	70	200 N	10	20 N
5	2	20 N	50 N	10 L	50	15	50	10 N	50 N	10	70	200 N	10	20 N
6	3	20 N	50 N	10 N	20	10	50	10 N	50 N	10	50	200 N	10 L	20 N
7	5	20 N	50 N	10 L	50	100	50	10 N	50 N	20	70	200 N	10	20 N
8	5	20 N	50 N	10 L	20	20	100	10 N	50 N	20	100	200 N	5	20 N
9	2	20 N	50 N	10 L	70	20	50	10 N	50 N	20	50	200 N	10	20 N
10	2 N	20 N	50 N	10 N	20 N	10 L	50 L	10 N	50 N	10 L	20 L	200 N	10 N	20 N
11	2 N	20 N	50 N	10 N	20 L	10 L	50	10 N	50 N	10 L	20	200 N	10 N	20 N
12	2 L	20 N	50 N	10 L	100	15	50	10 N	50 N	50	50	200 N	10 N	20 N
13	2 L	20 N	50 N	10 L	50	20	50	10 N	50 N	20	100	200 N	5	20 N
14	2 L	20 N	50 N	10 N	20 L	15	50 L	10 N	50 N	10	30	200 N	7	20 N
15	2 L	20 N	50 N	10	20 L	20	50 L	10 N	50 N	10	50	200 N	5	20 N
16	2 L	20 N	50 N	10 N	20 L	10	50	10 N	50 N	10 L	20	200 N	10 N	20 N
17	2 N	20 N	50 N	10 N	20 L	10	50	10 N	50 N	10 L	20	200 N	10 N	20 N
18	2 N	20 N	50 N	10 N	20 L	10	50	10 N	50 N	10 L	20	200 N	10 N	20 N
19	2 N	20 N	50 N	10 N	20 L	10 L	50	10 N	50 N	10 L	20 L	200 N	10 N	20 N
20	2 N	20 N	50 N	10 N	20 L	10 L	50	10 N	50 N	10 L	20	200 N	10 N	20 N
21	2 L	20 N	50 N	10 N	20 L	10 L	50 L	10 N	50 N	10 L	20 L	200 N	5	20 N
22	2 N	20 N	50 N	10 N	20 L	10	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
23	2 N	20 N	50 N	10 N	20 L	10 L	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
24	2 N	20 N	50 N	10 N	20 L	10	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
25	2 L	20 N	50 N	10 N	20 L	10 N	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
26	2 L	20 N	50 N	10 N	20 N	10 L	50 L	10 N	50 N	10 L	20 L	200 N	10 N	20 N
27	2 L	20 N	50 N	10 N	20 N	10 L	50 L	10 N	50 N	10 L	20 L	200 N	10 N	20 N
28	2 N	20 N	50 N	10 N	20 L	10 N	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
29	2 L	20 N	50 N	10 N	20 L	10 N	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
30	2 N	20 N	50 N	10 N	20 L	10 N	50 L	10 N	50 N	10 L	20 N	200 N	10 N	20 N
31	2 N	20 N	50 N	10 N	20 L	10 L	50	10 N	50 N	10 L	20 L	200 N	10 N	20 N
32	2 N	20 N	50 N	10 N	20 L	10 L	50	10 N	50 N	10 L	20 L	200 N	10 N	20 N
33	2 N	20 N	50 N	10 N	20 L	10 L	50 L	10 N	50 N	10 L	20 L	200 N	10 N	20 N
34	2 L	20 N	50 N	10 N	20 L	10	50	10 N	50 N	10 L	20	200 N	10 N	20 N
35	2 L	20 N	50 N	10 N	20 N	10	50 L	10 N	50 N	10 L	20 L	200 N	10 N	20 N
36	2 L	20 N	50 N	10 L	20	10	50 L	10 N	50 N	15	20 L	200 N	10 L	20 N
37	2	20 N	50 N	10	100	50	50	10 N	50 N	30	50	200 N	15	20 N
38	2	20 N	50 N	10 L	50	30	50	10 N	50 N	30	20	200 N	10	20 N
39	2	20 N	50 N	10 L	100	15	50	10 N	50 N	50	20	200 N	15	20 N
40	2 L	20 N	50 N	10 L	20	10	50	10 N	50 N	20	20 L	200 N	10 L	20 N
41	2 L	20 N	50 N	10 L	50	15	50	10 N	50 N	30	50	200 N	10	20 N
42	2 L	20 N	50 N	10 L	20	15	50	10 N	50 N	20	20	200 N	10 L	20 N

TABLE 2 (cont.). -- DATA FOR LIGHT-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th
1	200 L	100	100 N	20 L	500 N	200	200 N
2	200	150	100 N	50	500 N	200	200 N
3	200	100	100 N	70	500 N	200	200 N
4	200	70	100 N	20 L	500 N	300	200 N
5	300	70	100 N	50	500 N	100	200 N
6	200	20	100 N	20	500 N	200	200 N
7	200	70	100 N	20 N	500 N	200	200 N
8	200	30	100 N	20	500 N	100	200 N
9	200	70	100 N	50	500 N	100	200 N
10	200	20 L	100 N	20 N	500 N	50	200 N
11	500	20	100 N	20 N	500 N	20 L	200 N
12	200	50	100 N	20 N	500 N	70	200 N
13	200	70	100 N	20 N	500 N	100	200 N
14	200	50	100 N	20 N	500 N	50	200 N
15	200	50	100 N	20 N	500 N	100	200 N
16	200	20	100 N	20 N	500 N	50	200 N
17	200	20	100 N	20 N	500 N	50	200 N
18	200	20	100 N	20 N	500 N	70	200 N
19	200	20	100 N	20 N	500 N	20	200 N
20	200	20	100 N	20 N	500 N	20 L	200 N
21	200	20	100 N	20 N	500 N	30	200 N
22	200	20	100 N	20 N	500 N	70	200 N
23	200	20	100 N	20 N	500 N	50	200 N
24	200	20	100 N	20 N	500 N	50	200 N
25	200	20	100 N	20 N	500 N	70	200 N
26	200	20 L	100 N	20 L	500 N	20 L	200 N
27	300	20 L	100 N	20 N	500 N	20 L	200 N
28	300	20	100 N	20 N	500 N	100	200 N
29	300	20	100 N	20 N	500 N	20	200 N
30	500	20	100 N	20 N	500 N	20 L	200 N
31	300	20	100 N	20 N	500 N	70	200 N
32	200	20	100 N	20 N	500 N	50	200 N
33	200	20	100 N	20 N	500 N	20 L	200 N
34	200	20	100 N	20 N	500 N	20	200 N
35	200	20 L	100 N	20 N	500 N	20 L	200 N
36	300	50	100 N	20 N	500 N	70	200 N
37	500	100	100 N	20	500 N	200	200 N
38	500	70	100 N	20 L	500 N	100	200 N
39	500	70	100 N	50	500 N	100	200 N
40	200	50	100 N	20 N	500 N	70	200 N
41	500	70	100 N	20 L	500 N	70	200 N
42	300	70	100 N	20 N	500 N	70	200 N

TABLE 3. -- DATA FOR MAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	Latitude ° ′ ″	Longitude ° ′ ″	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn	S-Ag	A-As	A-Au	S-B	S-Ba
1	36:38:42	114:04:16	20 G	0.5	0.5	1.0	5000 G	1 N	500 N	20 N	20	50 N
2	36:39:03	114:03:54	20 G	0.3	0.2	1.0	5000	1 N	500 N	20 N	50	50 N
3	36:37:50	114:02:33	20 G	0.7	0.5	1.0 G	5000 G	1 N	500 N	20 N	20	50 N
4	36:36:37	114:02:25	20 G	0.2	0.1	1.0 G	2000	1 N	500 N	20 N	20	50 N
5	36:36:04	114:02:31	20 G	0.5	0.5	1.0 G	5000 G	1 N	500 N	20 N	150	50 N
6	36:35:04	114:02:42	20 G	0.2	0.07	1.0 G	2000	1 N	500 N	20 N	100	50 N
7	36:34:37	114:02:40	20 G	0.2	0.07	1.0	5000	1 N	500 N	20 N	50	50 N
8	36:34:36	114:02:40	20 G	0.3	0.15	1.0 G	5000 G	1 N	500 N	20 N	20 L	50 N
9	36:33:50	114:02:38	20 G	0.2	0.15	1.0 G	1000	1 N	500 N	20 N	20	50 N
10	36:33:07	114:02:10	20 G	0.3	0.1	1.0 G	3000	1 N	500 N	20 N	20	50 N
11	36:31:57	114:03:00	20 G	0.3	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50 N
12	36:31:46	114:03:44	20 G	0.5	0.3	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
13	36:31:58	114:04:47	20 G	0.5	0.5	1.0 G	5000	1 N	500 N	20 N	20 L	50 N
14	36:32:10	114:04:58	20 G	0.3	0.15	1.0 G	1000	1 N	500 N	20 N	20 L	50 N
15	36:31:59	114:05:27	20 G	0.3	0.1	1.0 G	1500	1 N	500 N	20 N	20 L	50 N
16	36:35:54	114:05:57	20 G	0.3	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 L
17	36:35:10	114:05:40	20 G	0.3	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 L
18	36:35:10	114:05:34	20 G	0.5	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50 L
19	36:33:46	114:05:42	20 G	0.5	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50 N
20	36:33:31	114:05:17	20 G	0.5	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50
21	36:31:53	114:06:13	20 G	0.3	0.1	1.0 G	1500	1 N	500 N	20 N	20 L	50 N
22	36:31:34	114:06:49	20 G	0.5	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
23	36:31:33	114:08:25	20 G	0.3	0.05	1.0 G	1500	1 N	500 N	20 N	20 L	50 N
24	36:31:44	114:09:02	20 G	0.5	0.1	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
25	36:32:14	114:09:58	20 G	0.5	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
26	36:32:57	114:06:58	20 G	0.3	0.15	1.0 G	2000	1 N	500 N	20 N	20	50 N
27	36:33:00	114:07:02	20 G	0.3	0.15	1.0 G	2000	1 N	500 N	20 N	20	50 N
28	36:33:28	114:08:19	20 G	1.0	0.3	1.0 G	3000	1 N	500 N	20 N	20 L	50 N
29	36:33:15	114:09:04	20 G	0.5	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
30	36:32:48	114:10:03	20 G	0.5	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
31	36:33:47	114:10:47	20 G	0.5	0.3	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
32	36:33:50	114:10:46	20 G	0.3	0.2	1.0 G	2000	1 N	500 N	20 N	20 L	50 N
33	36:34:55	114:10:07	20 G	0.5	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50 N
34	36:35:18	114:10:05	20 G	0.5	0.2	1.0 G	3000	1 N	500 N	20 N	20 L	50 N
35	36:35:37	114:10:54	20 G	0.5	0.2	1.0 G	5000	1 N	500 N	20 N	20	50 N
36	36:35:45	114:11:26	20 G	0.5	0.2	1.0 G	2000	1 N	500 N	20 N	20	50 N
37	36:36:41	114:11:10	20 G	1.0	0.7	1.0	5000 G	1 N	500 N	20 N	20	50 N
38	36:37:08	114:11:17	20 G	1.0	0.7	1.0	2000	1 N	500 N	20 N	20	50 N
39	36:38:19	114:10:29	20 G	1.5	1.0	1.0	1500	1 N	500 N	20 N	20	50 N
40	36:38:32	114:08:58	20 G	0.5	0.7	1.0	2000	1 N	500 N	20 N	20	50 N
41	36:39:23	114:08:12	20 G	1.5	1.0	1.0	2000	1 N	500 N	20 N	20	50 N
42	36:40:09	114:05:57	20 G	1.0	1.0	1.0 G	5000	1 N	500 N	20 N	20	50 N

TABLE 3 (cont.). -- DATA FOR MAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Be	S-Bi	S-Cd	S-Co	S-Cr	S-Cu	S-La	S-Mo	S-Nb	S-Ni	S-Pb	S-Sb	S-Sc	S-Sn
1	2 N	20 N	50 N	50	300	100	50	10 N	50 L	50	20 L	200 N	50	20 N
2	2 N	20 N	50 N	50	300	100	50	10 N	50 L	50	20 L	200 N	30	20 N
3	2 N	20 N	50 N	50	500	200	50	10 N	50 L	50	20 L	200 N	100	20 N
4	2 N	20 N	50 N	30	700	100	50	10 N	50 L	70	20 L	200 N	30	20 N
5	2 N	20 N	50 N	20	200	100	50	10 N	50 L	70	20 L	200 N	50	20 N
6	2 N	20 N	50 N	20	500	100	70	10 N	50 L	70	20 L	200 N	20	20 N
7	2 N	20 N	50 N	20	300	100	100	10 N	50 L	30	20 L	200 N	30	20 N
8	2 N	20 N	50 N	50	300	200	50	10 N	50 L	50	20	200 N	100	20 N
9	2 N	20 N	50 N	30	700	200	50	10 N	50 L	70	20 L	200 N	20	20 N
10	2 N	20 N	50 N	100	1000	200	50	10 N	50 L	150	50	200 N	20	20 N
11	2 N	20 N	50 N	100	1500	200	50	10 N	50 L	200	30	200 N	30	20 N
12	2 N	20 N	50 N	100	200	300	50	10 N	50 L	200	50	200 N	30	20 N
13	2 N	20 N	50 N	50	500	300	50	10 N	50 L	100	20 L	200 N	70	20 N
14	2 N	20 N	50 N	100	500	200	50	10 N	50 L	100	20 L	200 N	20	20 N
15	2 N	20 N	50 N	50	300	200	50	10 N	50 L	50	30	200 N	20	20 N
16	2 N	20 N	50 N	70	700	300	50	70	50 L	200	100	200 N	30	20 N
17	2 N	20 N	50 N	70	700	200	50	50	50 L	200	50	200 N	30	20 N
18	2 N	20 N	50 N	70	700	300	50	50	50 L	200	100	200 N	30	20 N
19	2 N	20 N	50 N	70	700	300	50	20	50 L	200	100	200 N	30	20 N
20	2 N	20 N	50 N	70	700	200	50	30	50 L	200	100	200 N	30	20 N
21	2 N	20 N	50 N	100	1000	200	50	10 N	50 L	150	20 L	200 N	20	20 N
22	2 N	20 N	50 N	70	700	200	50	10 N	50 L	150	50	200 N	20	20 N
23	2 N	20 N	50 N	70	1000	100	50	10 N	50 L	150	20	200 N	20	20 N
24	2 N	20 N	50 N	70	700	100	50	10 N	50 L	150	20 L	200 N	20	20 N
25	2 N	20 N	50 N	70	700	100	50	10 N	50 L	150	20 L	200 N	20	20 N
26	2 N	20 N	50 N	70	700	200	50	10 N	50 L	150	30	200 N	20	20 N
27	2 N	20 N	50 N	70	700	200	50	10 N	50 L	150	30	200 N	20	20 N
28	2 N	20 N	50 N	150	2000	150	50	10 N	50 L	200	20 L	200 N	50	20 N
29	2 N	20 N	50 N	70	700	100	50	10 N	50 L	150	20 L	200 N	20	20 N
30	2 N	20 N	50 N	70	700	100	50	10 N	50 L	150	20 L	200 N	20	20 N
31	2 N	20 N	50 N	70	1000	200	50	10 N	50 L	200	30	200 N	30	20 N
32	2 N	20 N	50 N	70	700	150	50	10 N	50 L	150	20 L	200 N	30	20 N
33	2 N	20 N	50 N	100	700	200	50	10 N	50 L	200	20	200 N	30	20 N
34	2 N	20 N	50 N	70	700	200	50	10 N	50 L	200	20	200 N	30	20 N
35	2 N	20 N	50 N	100	1000	200	50	10 N	50 L	150	30	200 N	30	20 N
36	2 N	20 N	50 N	70	700	300	50	10 N	50 L	100	20 L	200 N	30	20 N
37	2 N	20 N	50 N	50	1000	150	50	10 N	50 L	100	20 L	200 N	50	20 N
38	2 N	20 N	50 N	70	1000	200	50	10 N	50 L	200	20 L	200 N	50	20 N
39	2 N	20 N	50 N	70	3000	200	100	10 N	50 L	200	20 L	200 N	30	20 N
40	2 N	20 N	50 N	70	700	150	70	10 N	50 L	100	20 L	200 N	30	20 N
41	2 N	20 N	50 N	50	1000	200	150	10 N	50 L	150	20 L	200 N	30	20 N
42	2 N	20 N	50 N	70	700	200	200	10 N	50 L	150	20 L	200 N	30	20 N

TABLE 3 (cont.). -- DATA FOR MAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

SAMPLE Site No.	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th	F-Au	F-Pt	F-Pd	F-Rh	F-Ir
1	200 N	300	100 N	300	500 L	500	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
2	200 N	500	100 N	200	500 L	300	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
3	200 N	500	100 N	200	500 L	300	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
4	200 N	500	100 N	150	500 L	200	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
5	200 N	300	100 N	150	500 L	200	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
6	200 N	500	100 N	50	500 L	500	200 N	0.003 N	0.02 N	0.003 N	0.006 N	0.3 N
7	200 N	500	100 N	300	500 L	300	200 N	0.002 N	0.010 N	0.002 N	0.005 N	0.2 N
8	200 N	700	100 N	200	500 L	300	200 N	0.007 N	0.03 N	0.007 N	0.015 N	0.7 N
9	200 N	500	100 N	50	500 L	200	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
10	200 N	1000	100 N	30	500 L	300	200 N	0.03 N	0.15 N	0.03 N	0.05 N	3 N
11	200 N	1000	100 N	50	500 L	300	200 N	0.02 N	0.10 N	0.02 N	0.05 N	2 N
12	200 N	1000	100 N	50	500 L	500	200 N	0.006 N	0.03 N	0.006 N	0.010 N	0.6 N
13	200 N	500	100 N	150	500 L	100	200 N	0.007 N	0.04 N	0.007 N	0.015 N	0.7 N
14	200 N	2000	100 N	20 L	500 L	100	200 N	0.03 N	0.15 N	0.03 N	0.06 N	3 N
15	200 N	1000	100 N	20	500 L	100	200 N	0.003 N	0.015 N	0.003 N	0.005 N	0.3 N
16	200 N	1000	100 N	50	500 L	500	200 N	0.03 N	0.15 N	0.03 N	0.07 N	3 N
17	200 N	1000	100 N	50	500 L	500	200 N	0.03 N	0.15 N	0.03 N	0.05 N	3 N
18	200 N	1000	100 N	70	500 L	500	200 N	0.02 N	0.10 N	0.02 N	0.05 N	2 N
19	200 N	1000	100 N	20	500 L	300	200 N	0.03 N	0.15 N	0.03 N	0.07 N	3 N
20	200 N	1000	100 N	50	500 L	300	200 N	0.05 N	0.2 N	0.05 N	0.10 N	5 N
21	200 N	1500	100 N	20 N	500 L	300	200 N	0.07 N	0.4 N	0.07 N	0.15 N	7 N
22	200 N	1500	100 N	20	500 L	300	200 N	0.03 N	0.15 N	0.03 N	0.07 N	3 N
23	200 N	1000	100 N	20 L	500 L	700	200 N	0.3 N	1.5 N	0.3 N	0.6 N	30 N
24	200 N	1000	100 N	20 L	500 L	300	200 N	0.07 N	0.4 N	0.07 N	0.15 N	7 N
25	200 N	1000	100 N	20	500 L	500	200 N	0.03 N	0.15 N	0.03 N	0.05 N	3 N
26	200 N	1000	100 N	20 L	500 L	300	200 N	0.07 N	0.4 N	0.07 N	0.15 N	7 N
27	200 N	1000	100 N	20 L	500 L	500	200 N	0.07 N	0.4 N	0.07 N	0.15 N	7 N
28	200 N	1000	100 N	50	500 L	500	200 N	0.15 N	0.8 N	0.15 N	0.3 N	15 N
29	200 N	1000	100 N	20 L	500 L	500	200 N	0.06 N	0.3 N	0.06 N	0.10 N	6 N
30	200 N	1000	100 N	20	500 L	300	200 N	0.04 N	0.2 N	0.04 N	0.09 N	4 N
31	200 N	1500	100 N	30	500 L	300	200 N	0.08 N	0.4 N	0.08 N	0.15 N	8 N
32	200 N	1500	100 N	20 L	500 L	500	200 N	0.05 N	0.2 N	0.05 N	0.10 N	5 N
33	200 N	1000	100 N	20	500 L	300	200 N	0.05 N	0.2 N	0.05 N	0.10 N	5 N
34	200 N	1000	100 N	20	500 L	300	200 N	0.04 N	0.2 N	0.04 N	0.09 N	4 N
35	200 N	1000	100 N	20	500 L	500	200 N	0.03 N	0.15 N	0.03 N	0.06 N	3 N
36	200 N	1000	100 N	50	500 L	300	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
37	200 N	1000	100 N	200	500 L	200	200 N	0.003 N	0.015 N	0.003 N	0.006 N	0.3 N
38	200 N	1000	100 N	70	500 L	200	200 N	0.03	0.015	0.015	0.006 N	0.3 N
39	200 N	1000	100 N	70	500 L	200	200 N	0.003 L	0.015 N	0.006	0.006 N	0.3 N
40	200 N	1000	100 N	70	500 L	200	200 N	0.003 N	0.015 N	0.003	0.006 N	0.3 N
41	200 N	1000	100 N	70	500 L	200	200 N	0.003 N	0.015 N	0.003	0.006 N	0.3 N
42	200 N	1000	100 N	150	500 L	300	200 N	0.003 L	0.015 N	0.003	0.006 N	0.3 N

TABLE 4. -- DATA FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	Latitude ° ′ ″	Longitude ° ′ ″	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn	S-Ag	A-As	A-Au	S-B	S-Ba
1	36:38:42	114:04:16	1.0	0.2	10	1.0 G	700	1 N	500 N	20 N	200	300
2	36:39:03	114:03:54	1.0	0.2	2	0.7	300	1 N	500 N	20 N	100	500
3	36:37:50	114:02:33	1.5	0.2	10	1.0 G	700	1 N	500 N	20 N	50	700
4	36:36:37	114:02:25	1.0	0.3	5	0.5	300	1 N	500 N	20 N	50	700
5	36:36:04	114:02:31	2	1.0	15	1.0 G	1500	1 N	500 N	20 N	100	300
6	36:35:04	114:02:42	1.0	1.0	15	1.0 G	1000	1 N	500 N	20 N	100	200
7	36:34:37	114:02:40	1.0	1.0	20	1.0	1500	1 N	500 N	20 N	50	500
8	36:34:36	114:02:40	1.0	3	15	1.0	1000	1 N	500 N	20 N	70	300
9	36:33:50	114:02:38	1.5	2	15	1.0 G	1000	1 N	500 N	20 N	100	1000
10	36:33:07	114:02:10	1.5	5	15	1.0 G	500	1 N	500 N	20 N	200	500
11	36:31:57	114:03:00	1.0	5	10	1.0	300	1 N	500 N	20 N	200	50 L
12	36:31:46	114:03:44	0.5	5	15	0.3	500	1 N	500 N	20 N	70	200
13	36:31:58	114:04:47	0.7	1.5	15	0.5	500	1 N	500 N	20 N	100	200
14	36:32:10	114:04:58	0.5	5	10	0.3	300	1 N	500 N	20 N	100	300
15	36:31:59	114:05:27	1.5	3	5	0.2	1000	1 N	500 N	20 N	30	150
16	36:35:54	114:05:57	0.7	5	10	0.5	300	1 N	500 N	20 N	50	200
17	36:35:10	114:05:40	0.7	5	10	0.7	200	1 N	500 N	20 N	100	50 L
18	36:35:10	114:05:34	1.0	7	15	1.0	200	1 N	500 N	20 N	100	50 L
19	36:33:46	114:05:42	0.7	7	15	0.5	300	1 N	500 N	20 N	100	50 L
20	36:33:31	114:05:17	0.7	7	10	1.0	300	1 N	500 N	20 N	100	200
21	36:31:53	114:06:13	0.5	7	10	0.3	300	1 N	500 N	20 N	100	200
22	36:31:34	114:06:49	1.0	5	10	1.0 G	300	1 N	500 N	20 N	300	1000
23	36:31:33	114:08:25	2	0.2	0.2	1.0 G	100	1 N	500 N	20 N	300	5000 G
24	36:31:44	114:09:02	2	1.0	0.7	1.0 G	300	1 N	500 N	20 N	500	5000 G
25	36:32:14	114:09:58	1.5	5	10	1.0 G	500	1 N	500 N	20 N	300	300
26	36:32:57	114:06:58	1.0	7	15	1.0	300	1 N	500 N	20 N	100	50 L
27	36:33:00	114:07:02	1.5	2	15	1.0 G	300	1 N	500 N	20 N	300	300
28	36:33:28	114:08:19	1.0	3	10	1.0 G	200	1 N	500 N	20 N	200	700
29	36:33:15	114:09:04	1.0	5	15	1.0 G	300	1 N	500 N	20 N	200	50
30	36:32:48	114:10:03	1.5	3	10	1.0 G	300	1 N	500 N	20 N	300	50
31	36:33:47	114:10:47	0.5	5	10	1.0	200	1 N	500 N	20 N	200	50 L
32	36:33:50	114:10:46	1.0	5	15	1.0 G	200	1 N	500 N	20 N	300	300
33	36:34:55	114:10:07	0.7	5	10	0.7	200	1 N	500 N	20 N	100	2000
34	36:35:18	114:10:05	0.5	7	15	0.3	300	1 N	500 N	20 N	70	50 L
35	36:35:37	114:10:54	1.5	5	15	1.0 G	300	1 N	500 N	20 N	300	300
36	36:35:45	114:11:26	1.5	2	10	1.0 G	500	1 N	500 N	20 N	100	5000 G
37	36:36:41	114:11:10	1.5	2	10	1.0 G	500	1 N	500 N	20 N	500	1000
38	36:37:08	114:11:17	2	1.0	20	1.0 G	1000	1 N	500 N	20 N	300	500
39	36:38:19	114:10:29	1.0	0.5	7	1.0	300	1 N	500 N	20 N	70	500
40	36:38:32	114:08:58	1.0	1.5	15	1.0 G	1000	1 N	500 N	20 N	100	1000
41	36:39:23	114:08:12	1.0	2	10	1.0 G	500	1 N	500 N	20 N	70	1500
42	36:40:09	114:05:57	1.0	5	15	1.0	500	1 N	500 N	20 N	70	700

TABLE 4 (cont.). -- DATA FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEV

Sample Site No.	S-Be	S-Bi	S-Cd	S-Co	S-Cr	S-Cu	S-La	S-Mo	S-Nb	S-Ni	S-Pb	S-Sb	S-Sc	S-Sn
1	50	70	50 N	10 L	20	100	200	10 N	50 L	10 L	70	200 N	20	20 N
2	20	20	50 N	10 L	20	10	200	20	50 L	10 L	50	200 N	10	20 N
3	7	20 N	50 N	10 N	50	10 L	500	20	50 L	10 L	100	200 N	30	20 N
4	10	200	50 N	10 L	50	200	300	10 N	50 L	10 L	70	200 N	50	20 N
5	200	20 N	50 N	10 L	150	10 L	1000	10	50 L	10 L	150	200 N	50	20 N
6	100	20	50 N	10 N	20 L	10 L	1000	10 N	50 L	10 L	100	200 N	20	20 N
7	10	300	50 N	10 N	100	10 L	1000 G	15	50 L	10 L	500	200 N	10 L	20 N
8	7	150	50 N	10 N	20	10 L	1000 G	10 N	50 L	10 L	200	200 N	20	20 N
9	50	20 N	50 N	10 N	100	10 L	500	10 N	50 L	10 L	100	200 N	70	20 N
10	2 N	20 N	50 N	10 N	100	10 L	300	10 N	50 L	10 L	100	200 N	30	20 N
11	2	20 N	50 N	10 N	50	10	500	10 N	50 L	10 L	150	200 N	20	20 N
12	2	20 N	50 N	10 N	70	15	1000	10 N	50 N	10 L	150	200 N	20	20 N
13	2	20 N	50 N	10 N	20 L	20	300	10 N	50 L	10 L	150	200 N	20	20 N
14	2 L	20 N	50 N	10 N	20 N	10 L	200	10 N	50 L	10 L	30	200 N	20	20 N
15	2 N	20 N	50 N	10 N	20 N	10	300	10 N	50 N	10 L	150	200 N	20	20 N
16	2	20 N	50 N	10 N	20 L	10 L	100	10 N	50 L	10 L	30	200 N	20	20 N
17	2	20 N	50 N	10 N	20	10 L	200	10 N	50 L	10 L	100	200 N	20	20 N
18	2	20 N	50 N	10 N	20	10 L	200	10 N	50 L	10 L	50	200 N	20	20 N
19	2	20 N	50 N	10 N	20	10 L	100	10 N	50 L	10 L	30	200 N	20	20 N
20	2	20 N	50 N	10 N	20	10 L	200	10 N	50 L	10 L	50	200 N	20	20 N
21	2 N	20 N	50 N	10 N	20 N	10 L	100	10 N	50 N	10 L	20	200 N	20	20 N
22	2 N	20 N	50 N	10 N	50	10 L	150	10 N	50 L	10 L	100	200 N	20	20 N
23	2 N	20 N	50 N	10 N	100	20	70	10 N	50 N	10 L	50	200 N	100	20 N
24	2 N	20 N	50 N	10 N	150	20	200	10 N	50 N	10 L	100	200 N	100 G	20 N
25	2 N	20 N	50 N	10 N	100	10 L	300	10 N	50 L	10 L	100	200 N	20	20 N
26	2 N	20 N	50 N	10 N	100	100	150	10 N	50 L	10 L	50	200 N	20	20 N
27	2 N	20 N	50 N	10 N	200	10 L	300	10 N	50 L	10 L	150	200 N	50	20 N
28	2 N	20 N	50 N	10 N	100	10 L	200	10 N	50 L	10 L	100	200 N	20	20 N
29	2 N	20 N	50 N	10 N	50	10 L	200	10 N	50 L	10 L	50	200 N	20	20 N
30	2 N	20 N	50 N	10 N	150	10 L	200	10 N	50 L	10 L	70	200 N	20	20 N
31	2	20 N	50 N	10 N	100	10 L	200	10 N	50 L	10 L	50	200 N	20	20 N
32	2	20 N	50 N	10 N	100	15	300	10 N	50 L	10 L	200	200 N	20	20 N
33	2 N	20 N	50 N	10 N	30	10 L	200	10	50 L	10 L	3000	200 N	20	20 N
34	2	20 N	50 N	10 N	20	10 L	150	10 N	50 L	10 L	30	200 N	20	20 N
35	2 N	20 N	50 N	10 N	100	10 L	300	10 N	50 L	10 L	150	200 N	50	20 N
36	2 L	20 N	50 N	10 N	50	10 L	200	10 N	50 L	10 L	50	200 N	30	20 N
37	7	20 N	50 N	10 N	70	100	300	10 N	50 L	10 L	70	200 N	20	20 N
38	2	20 N	50 N	10	200	10000	500	10 N	50 L	100	70	200 N	20	20 N
39	2	20 N	50 N	10 L	100	200	300	10 N	50 L	20	100	200 N	20	20 N
40	10	20 N	50 N	10 L	100	20	1000	10 N	50 L	10 N	100	200 N	20	20 N
41	2 N	20 N	50 N	10 N	100	50	300	10 N	50 L	10 N	300	200 N	20	20 N
42	2 N	20 N	50 N	10 N	100	20	1000	10 N	50 L	10 N	150	200 N	20	20 N

TABLE 4 (cont.). -- DATA FOR NONMAGNETIC HEAVY-MINERAL-CONCENTRATE SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEV

Sample Site No.	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th	S-Pt	S-Pd
1	200	100	700	300	500 N	1000 G	200 N	20 N	10 N
2	200	70	1000	150	500 N	1000 G	200 N	20 N	10 N
3	200	70	500	500	500 N	1000 G	200 L	20 N	10 N
4	300	50	1000	200	500 N	1000 G	200 L	20 N	10 N
5	200 L	100	700	1000	500 N	1000 G	200	20 N	10 N
6	200 N	70	500	1000	500 N	1000 G	200	20 N	10 N
7	200 L	70	300	1500	500 N	1000 G	1000	20 N	10 N
8	200 L	50	500	1000	500 N	1000 G	200	20 N	10 N
9	5000	70	100 N	1000	500 N	1000 G	200 L	20 N	10 N
10	200 N	100	100 N	700	500 N	1000 G	200 L	20 N	10 N
11	200	70	100 N	500	500 N	1000 G	200 L	20 N	10 N
12	200	50	100 N	300	500 N	1000 G	200 L	20 N	10 N
13	200 N	50	100 N	500	500 N	1000 G	200 L	20 N	10 N
14	200 N	20	100 N	100	500 N	1000 G	200 N	20 N	10 N
15	200 L	50	100 N	200	500 N	1000 G	200 N	20 N	10 N
16	200	50	100 N	100	500 N	1000 G	200 N	20 N	10 N
17	200 N	70	100 N	200	500 N	1000 G	200 N	20 N	10 N
18	200 N	70	100 N	200	500 N	1000 G	200 N	20 N	10 N
19	200 N	50	100 N	100	500 N	1000 G	200 N	20 N	10 N
20	200 N	70	100 N	200	500 N	1000 G	200 N	20 N	10 N
21	200	20	100 N	70	500 N	1000 G	200 N	20 N	10 N
22	1500	70	100 N	500	500 N	1000 G	200 N	20 N	10 N
23	500	100	100 N	1000	500 N	1000 G	200 N	20 N	10 N
24	200	200	100 N	1000	500 N	1000 G	200 N	20 N	10 N
25	200 L	100	100 N	500	500 N	1000 G	200 N	20 N	10 N
26	200 L	50	100 N	200	500 N	1000 G	200 N	20 N	10 N
27	500	200	100 N	700	500 N	1000 G	200 N	20 N	10 N
28	200	70	100 N	500	500 N	1000 G	200 N	20 N	10 N
29	200 L	70	100 N	500	500 N	1000 G	200 N	20 N	10 N
30	200 L	100	100 N	500	500 N	1000 G	200 N	20 N	10 N
31	200 N	50	100 N	200	500 N	1000 G	200 N	20 N	10 N
32	200 N	100	100 N	500	500 N	1000 G	200 N	20 N	10 N
33	200 L	70	100 N	200	500 N	1000 G	200 N	20 N	10 N
34	200 N	50	100 N	100	500 N	1000 G	200 N	20 N	10 N
35	200 L	100	100 N	500	500 N	1000 G	200 N	20 N	10 N
36	500	70	100 N	300	500 N	1000 G	200 N	20 N	10 N
37	200	100	100 N	500	500 N	1000 G	200 L	20 N	10 N
38	500	150	100 N	500	500 N	1000 G	200 L	20 N	10 N
39	500	70	100 N	200	500 N	1000 G	200 L	20 N	10 N
40	500	100	100 N	300	500 N	1000 G	200	20 N	10 N
41	300	100	100 N	300	500 N	1000 G	200 L	20 N	10 N
42	200	70	100 N	300	500 N	1000 G	200 L	20 N	10 N

TABLE 5. -- DATA FOR ROCK SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	Latitude ° ′ ″	Longitude ° ′ ″	Rock type	S-Fe%	S-Mg%	S-Ca%	S-Ti%	S-Mn	S-Ag	S-As	S-Au
3	36:37:50	114:02:33	Pegmatite selvage	3	0.5	0.3	0.2	5000	0.5 N	200 N	10 N
13	36:31:58	114:04:47	Granodiorite gneiss	5	1.0	2	0.2	5000	0.5 N	200 N	10 N
39	36:38:19	114:10:29	Granite schist	3	1.5	1.5	0.2	1000	0.5 N	200 N	10 N
43	36:37:05	114:09:57	Gossan	15	2	1.0	0.1	2000	7	200 N	10 N
44	36:37:06	114:09:58	Granodiorite gneiss	5	1.0	1.5	0.1	2000	0.5 N	200 N	10 N
45	36:37:06	114:09:57	Hornblendite	10	5	2	0.3	2000	0.5 N	200 N	10 N
46	36:37:08	114:09:59	Granodiorite gneiss	5	0.5	1.0	0.1	1000	0.5 N	200 N	10 N
47	36:37:08	114:09:52	Amphibolide	7	5	3	0.3	1500	0.5 N	200 N	10 N
48	36:37:11	114:09:51	Granodiorite gneiss	3	0.7	1.0	0.1	1500	0.5 N	200 N	10 N
49	36:37:11	114:09:51	Amphibolite	3	0.7	1.0	0.3	500	0.5 N	200 N	10 N
50	36:37:04	114:09:55	Amphibolite	10	3	3	0.5	2000	0.5 N	200 N	10 N
51	36:37:03	114:09:54	Amphibolite	10	3	3	0.5	3000	0.5 N	200 N	10 N
52	36:37:01	114:09:53	Amphibolide schist	10	3	3	0.7	2000	0.5 N	200 N	10 N
53	36:37:01	114:09:53	Granite gneiss	10	5	5	0.5	3000	0.5 N	200 N	10 N
54	36:37:05	114:09:47	Amphibolite	5	2	2	0.2	2000	0.5 N	200 N	10 N
55	36:37:05	114:09:47	Granite gneiss	10	3	0.1	0.7	1000	0.5 N	200 N	10 N
56	36:36:57	114:09:59	Amphibolite	3	1.0	0.1	0.1	300	0.5 N	200 N	10 N
57	36:36:57	114:09:59	Granite gneiss	15	2	3	1.0	2000	0.5 N	200 N	10 N
58	36:37:09	114:10:03	Amphibolite	3	0.7	1.0	0.15	500	0.5 N	200 N	10 N
59	36:37:31	114:08:42	Amphibolide	10	1.5	0.7	0.7	1000	0.5 N	200 N	10 N
60	36:37:31	114:08:42	Gossan	10	5	3	0.5	3000	0.5 N	200 N	10 N
61	36:37:31	114:08:42	Pegmatite selvage	20	5	2	0.3	2000	20	200 N	10 N
62	36:37:31	114:08:43	Granodiorite gneiss	3	1.5	0.5	0.1	300	10	700	10 N
63	36:37:31	114:08:42	Amphibolite	5	2	1.0	0.2	2000	0.5 N	200 N	10 N
64	36:37:31	114:08:42	Granodiorite gneiss	15	3	3	1.0	3000	0.5 N	200 N	10 N
65	36:37:31	114:08:42	Pegmatite	0.5	0.3	0.2	0.03	200	0.5 N	200 N	10 N
66	36:37:27	114:08:48	Gossan	15	5	5	0.5	3000	10	200 N	10 N
67	36:37:27	114:08:48	Gossan	15	5	5	0.3	3000	2	200 N	10 N
68	36:37:32	114:08:43	Amphibolide	20	5	5	0.2	3000	10	200 N	10 N
69	36:37:32	114:08:50	Amphibolide	10	5	2	0.3	1500	5	200 N	10 N
70	36:38:12	114:09:12	Pegmatite	2	0.2	0.3	0.01	3000	0.5 N	200 N	10 N
70	36:38:12	114:09:12	Gossan	15	1.0	0.5	0.3	3000	0.5 N	200 N	10 N
71	36:37:19	114:07:23	Granodiorite gneiss	10	3	7	0.5	2000	0.5 N	200 N	10 N
72	36:37:17	114:07:23	Pegmatite	0.7	0.05	0.2	0.02	300	0.5 N	200 N	10 N
73	36:37:17	114:07:23	2-mica schist	7	1.5	0.5	0.5	3000	0.5 N	200 N	10 N
74	36:38:14	114:06:02	Amphibolide	10	5	2	0.5	1000	0.5 N	200 N	10 N
75	36:37:48	114:05:15	Pegmatite	0.5	0.2	0.05	0.03	100	0.5 N	200 N	10 N
76	36:37:48	114:05:15	2-mica schist	5	2	1.0	0.5	2000	0.5 N	200 N	10 N
77	36:37:48	114:05:15	Pegmatite/Schist	5	0.7	1.0	0.3	2000	1.5	200 N	10 N
78	36:37:49	114:05:12	Muscovite schist	5	0.7	0.5	0.3	300	0.5 N	200 N	10 N
79	36:37:46	114:05:06	Granite gneiss	3	0.2	0.5	0.2	300	0.5 N	200 N	10 N
80	36:38:41	114:04:13	Biotite schist	10	2	0.7	0.1	3000	0.5 N	200 N	10 N

TABLE 5 (cont.). -- DATA FOR ROCK SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-B	S-Ba	S-Be	S-Bi	S-Cd	S-Co	S-Cr	S-Cu	S-La	S-Mo	S-Nb	S-Ni	S-Pb	S-Sb
3	10	500	1 L	10 N	20 N	5 L	50	70	50	5 N	20 L	50	30	100 N
13	20	300	1	10 N	20 N	20	150	70	70	5 N	20 L	50	30	100 N
39	10 L	700	2	10 N	20 N	20	150	20	50	5 N	20 L	100	20	100 N
43	50	50	1 L	10 N	20 N	300	1500	20000	20 N	5 N	20 L	5000 G	20	100 N
44	20	50	1 L	10 N	20 N	100	20	100	20 N	5 N	20 L	1000	10 L	100 N
45	20	200	1 L	10 N	20 N	200	2000	500	20 N	5 N	20 L	700	10 L	100 N
46	100	300	1 L	10 N	20 N	20	20	100	20 L	5 N	20 L	500	10 L	100 N
47	10	20 L	1 L	10 N	20 N	200	2000	300	20 N	5 N	20 L	500	10 L	100 N
48	50	200	1 L	10 N	20 N	5 L	20	10	20 N	5 N	20 L	10	10 L	100 N
49	10 L	1000	1 L	10 N	20 N	5 L	50	100	200	5 N	20 L	10	100	100 N
50	20	100	1 N	10 N	20 N	150	1000	200	20 N	5 N	20 L	200	10 L	100 N
51	20	100	1 N	10 N	20 N	150	300	150	20 N	5 N	20 L	150	10 L	100 N
52	20	150	1 L	10 N	20 N	150	200	200	20 N	5 N	20 L	100	10 L	100 N
53	20	50	1 L	10 N	20 N	150	3000	200	20 N	5 N	20 L	500	10 L	100 N
54	15	200	1 L	10 N	20 N	20	100	70	20 L	5 N	20 L	20	10 L	100 N
55	10	20	1 L	10 N	20 N	5 L	2000	5 L	20 N	5 N	20 L	200	10 L	100 N
56	10	20	1 L	10 N	20 N	5 L	20	5 L	20 N	5 N	20 L	50	10 L	100 N
57	20	200	1 L	10 N	20 N	70	100	150	20 L	5 N	20 L	100	10 L	100 N
58	10	700	1 L	10 N	20 N	10	20	50	20 L	5 N	20 L	15	20	100 N
59	70	700	1 L	10 N	20 N	20	150	300	20 L	10	20 L	100	70	100 N
60	20	50	1 N	10 N	20 N	200	5000	1000	20 N	5 N	20 L	1000	10 L	100 N
61	30	300	1 N	10 N	20 N	200	3000	20000	20 N	5 N	20 L	2000	10 L	100 N
62	10	100	1	10 N	20 N	70	70	3000	20 L	10	20 L	1500	1500	100 N
63	10	100	1	10 N	20 N	20	100	200	20 L	5 N	20 L	100	15	100 N
64	20	200	1 L	10 N	20 N	70	150	200	20 L	5 N	20 L	100	10	100 N
65	10 L	1000	1 L	10 N	20 N	5 L	20	50	50	5 N	20 N	10	20	100 N
66	20	100	1 N	10 N	20 N	100	5000	10000	20 N	5 N	20 L	2000	10 L	100 N
67	20	200	1 N	10 N	20 N	100	3000	5000	20 N	5 N	20 L	2000	10 L	100 N
68	20	70	1 N	10 N	20 N	200	2000	10000	20 N	5 N	20 L	5000	10 L	100 N
69	10	50	1 N	10 N	20 N	100	3000	7000	20 N	5 N	20 L	3000	20	100 N
70	10 L	700	1	10 N	20 N	5 L	20	10	70	5 N	20 N	5 L	50	100 N
70	10	150	2	10 N	20 N	20	70	2000	50	5 N	20 L	100	20	100 N
71	20	300	5	10 N	20 N	70	100	20	50	5 N	20 L	100	10 L	100 N
72	10	300	1 L	10 N	20 N	5 L	20	10	50	5 N	20 N	5 L	30	100 N
73	10 L	300	2	10 N	20 N	20	100	200	100	5 N	20 L	50	20	100 N
74	10	20	1 L	10 N	20 N	100	2000	70	20 N	5 N	20 L	1000	10	100 N
75	10	150	5	10 N	20 N	5 L	20	20	50	5 N	20 L	5 L	10 L	100 N
76	10	500	5	10 N	20 N	20	100	50	100	5 N	20 L	70	50	100 N
77	500	500	5	10 N	20 N	20	100	70	70	5 N	20 L	50	70	100 N
78	100	300	2	10 N	20 N	20	100	50	70	5 N	20 L	50	20	100 N
79	10 L	700	3	10 N	20 N	5 L	20	10	50	5 N	20 L	5 L	20	100 N
80	10	150	5	10 N	20 N	15	100	50	100	5 N	20 L	20	30	100 N

TABLE 5 (cont.). -- DATA FOR ROCK SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	S-Sc	S-Sn	S-Sr	S-V	S-W	S-Y	S-Zn	S-Zr	S-Th	F-Au	F-Pt	F-Pd
3	30	10 N	100 L	20	50 N	100	200 N	200	100 N	0.01	0.005 N	0.005
13	15	10 N	100 N	150	50 N	30	200 N	100	100 N	0.01	0.005 N	0.001 L
39	15	10 N	500	100	50 N	20	200 N	70	100 N	0.001 N	0.005 N	0.001 L
43	15	10 N	100 N	70	50 N	10 L	200	10 L	100 N	0.5	0.5	2
44	20	10 N	500	150	50 N	10	200 N	70	100 N	0.001	0.005 N	0.03
45	20	10 N	200	150	50 N	10	200 N	50	100 N	0.02	0.02	0.03
46	15	10 N	300	70	50 N	10	200 N	50	100 N	0.001 N	0.005 N	0.002
47	20	10 N	100 N	150	50 N	10 L	200 N	50	100 N	0.001 N	0.015	0.005
48	15	10 N	300	70	50 N	10 L	200 N	30	100 N	0.001 N	0.005 N	0.001 L
49	10	10 N	300	100	50 N	30	200 N	300	100 N	0.001 N	0.005 N	0.001 N
50	30	10 N	200	300	50 N	20	200 N	70	100 N	0.001 N	0.005 N	0.001 N
51	30	10 N	300	300	50 N	20	200 N	70	100 N	0.001 N	0.005 N	0.001 L
52	30	10 N	300	300	50 N	20	200 N	70	100 N	0.001 N	0.02	0.007
53	30	10 N	100 N	200	50 N	15	200 L	50	100 N	0.001 N	0.005	0.005
54	20	10 N	700	200	50 N	10 L	200 N	70	100 N	0.001 N	0.005 N	0.001 N
55	20	10 N	100 N	200	50 N	10	200 N	50	100 N	0.007	0.005 N	0.001 N
56	10	10 N	100 N	30	50 N	10 L	200 N	100	100 N	0.001 L	0.010	0.005
57	30	10 N	200	300	50 N	30	200 N	100	100 N	0.001 N	0.005 N	0.002
58	5	10 N	500	100	50 N	10 L	200 N	150	100 N	0.001 L	0.005 N	0.002
59	30	10 N	100	200	50 N	30	200 N	200	100 N	0.010	0.05	0.05
60	30	10 N	100	200	50 N	10	200 N	50	100 N	0.5	0.5	1.5
61	30	10 N	200	200	50 N	10	200 L	30	100 N	0.05	1.0	2
62	5	10 N	200	50	50 N	10 L	700	20	100 N	0.002	0.005	0.03
63	20	10 N	200	200	50 N	10 L	200 N	70	100 N	0.005	0.005	0.007
64	50	10 N	200	500	50 N	30	200 N	150	100 N	0.001 N	0.005 N	0.005
65	5 N	10 N	200	10	50 N	10 L	200 N	10 N	100 N	0.001 N	0.005 N	0.002
66	50	10 N	200	200	50 N	15	200 N	50	100 N	0.3	0.5	1.0
67	30	10 N	200	150	50 N	15	200 N	30	100 N	0.2	0.7	1.0
68	20	10 N	150	100	50 N	10	200 N	30	100 N	0.3	0.005	0.5
69	20	10 N	100 N	100	50 N	10	200 L	30	100 N	0.2	0.07	0.3
70	30	10 N	200	10 L	50 N	70	200 N	100	100 N	0.001 N	0.005 N	0.001 L
70	15	10 N	100 N	100	50 N	50	200 N	100	100 N	0.02	0.005 N	0.002
71	50	20	150	500	50 N	20	200 N	70	100 N	0.001 N	0.005 N	0.001 N
72	5	10 N	100 N	10	50 N	10 L	200 N	20	100 N	0.001 N	0.005 N	0.001 N
73	10	10 N	100	150	50 N	50	200 N	300	100 N	0.001 N	0.005 N	0.001 L
74	20	10 N	100 N	200	50 N	10	200 N	50	100 N	0.010	0.010	0.007
75	5 L	10 N	100 N	10 L	50 N	10 L	200 N	20	100 N	0.05	0.005 N	0.001 L
76	20	10 N	200	100	50 N	30	200 N	200	100 N	0.010	0.005 N	0.001 L
77	20	10 N	200	100	50 N	50	200 N	200	100 N	0.05	0.005 N	0.001 L
78	10	10 N	100	100	50 N	20	200 N	200	100 N	0.03	0.005 N	0.001 L
79	20	10 N	100	10 L	50 N	50	200 N	200	100 N	0.010	0.005 N	0.001 N
80	30	10 N	200	200	50 N	50	200 L	300	100 N	0.001 N	0.005 N	0.003

TABLE 5 (cont.). -- DATA FOR ROCK SAMPLES, VIRGIN MOUNTAINS INSTANT STUDY AREA, NEVADA

Sample Site No.	F-Rh	F-Ru	F-Ir
3	0.002 N	0.2 N	0.10 N
13	0.002 N	0.2 N	0.10 N
39	0.002 N	0.2 N	0.10 N
43	0.05	0.2 N	0.3
44	0.003	0.2 N	0.10 N
45	0.005	0.2 N	0.10 N
46	0.002 N	0.2 N	0.10 N
47	0.002 N	0.2 N	0.10 N
48	0.002 N	0.2 N	0.10 N
49	0.002 N	0.2 N	0.10 N
50	0.002 N	0.2 N	0.10 N
51	0.002 N	0.2 N	0.10 N
52	0.002 N	0.2 N	0.10 N
53	0.002 N	0.2 N	0.10 N
54	0.002 N	0.2 N	0.10 N
55	0.002 N	0.2 N	0.10 N
56	0.002 N	0.2 N	0.10 N
57	0.002 N	0.2 N	0.10 N
58	0.002 N	0.2 N	0.10 N
59	0.002 N	0.2 N	0.10 N
60	0.02	0.2 N	0.2
61	0.02	0.2 N	0.10 N
62	0.002 N	0.2 N	0.10 N
63	0.002 N	0.2 N	0.10 N
64	0.002 N	0.2 N	0.10 N
65	0.002 N	0.2 N	0.10 N
66	0.010	0.2 N	0.10 N
67	0.05	0.2 N	0.10 N
68	0.007	0.2 N	0.10 N
69	0.002	0.2 N	0.10 N
70	0.002 N	0.2 N	0.10 N
70	0.002 N	0.2 N	0.10 N
71	0.002 N	0.2 N	0.10 N
72	0.002 N	0.2 N	0.10 N
73	0.002 N	0.2 N	0.10 N
74	0.002 N	0.2 N	0.10 N
75	0.002 N	0.2 N	0.10 N
76	0.002 N	0.2 N	0.10 N
77	0.002 N	0.2 N	0.10 N
78	0.002 N	0.2 N	0.10 N
79	0.002 N	0.2 N	0.10 N
80	0.002 N	0.2 N	0.10 N