

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CHEMICAL ANALYSES OF ROCK SAMPLES,
EAST-CENTRAL ALPINE COUNTY, CALIFORNIA

By

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INTRODUCTION

Rock samples were collected by the U.S. Geological Survey in the east-central portion of Alpine County, California, during the summer of 1979. The analyses included in this report are part of a detailed study for a master's thesis by F. C. Benedict to be used in conjunction with a broader, comprehensive study presently being undertaken of the Walker Lake 1° x 2° quadrangle, one of the quadrangles being evaluated for CUSMAP (Conterminous United States Mineral Appraisal Program). This report includes a sample site location map (plate 1) and a tabulation of chemical analyses for rock samples collected at each sample-site (table 2).

SAMPLE COLLECTION AND PREPARATION

A total of 256 samples were collected from 236 sites. Samples FCB-036, -089B, -124B, -142, -151, -183, -185, -190B -192, -226A, -226C, -227A, -227C, -228A, -228C, 234A, -235C, and -241B were either a dump-composite sample or high-grade sample. All other samples were collected from what were considered to be representative outcrops. Wherever necessary, samples were hand cobbled to remove visible effects of surface weathering. All samples were crushed and pulverized prior to analysis.

GEOCHEMICAL ANALYSIS

All samples were analyzed for Fe, Mg, Ca, Ti, Mn, Ag, As, Au, B, Ba, Be, Bi, Cd, Co, Cr, Cu, La, Mo, Nb, Ni, Pb, Sb, Sc, Sn, Sr, V, W, Y, Zn, Zr, and Th, using a six-step semiquantitative emission spectrographic method (Grimes and Marranzino, 1968). Analysis of samples was done partly in the field and partly in the U.S. Geological Survey laboratories in Denver.

The spectrographic analytical values are reported as the approximate geometric midpoints (0.15, 0.2, 0.3, 0.5, 0.7, and 1.0 or appropriate powers of ten of these values) of concentration ranges whose respective boundaries are 0.12, 0.18, 0.26, 0.38, 0.56, 0.83, and 1.2 (or appropriate powers of ten of these values).

In general, the precision of the method is plus or minus one reporting value of the value given by the analyst approximately 83 percent of the time and plus or minus two reporting values of the value given by the analyst 96 percent of the time (Motooka and Grimes, 1976). Because of the formatting used in the computer program that produced table 2, some of the elements listed carry one or more nonsignificant zeroes to the right of the significant digits. These elements were not determined to the accuracy suggested by these nonsignificant zeroes. Because they were not detected in any of the samples, the elements Au, Cd, Nb, and Th have been deleted from table 2.

DESCRIPTION OF TABLE 2

In table 2, the data are arranged so that column 1 contains the U.S. Geological Survey assigned sample-site numbers. These numbers coincide with the numbers on the site-location map (plate 1). The letters A, B, C, and(or) D following the sample-site numbers indicate those sites where more than one sample was collected. Latitude and longitude (in degrees, minutes, and seconds) are given in columns 2 and 3. Columns 4 through 30 list the spectrographic analyses. All element concentrations are in parts per million (ppm), except for Fe, Mg, Ca, and Ti, which are given in percent.

If a given element was looked for but not detected in a sample, then the letter "N" is entered in place of an analytical value. The lower limit of determination for each element for which one or more "N" values have been reported, as well as for the four deleted elements, is given in table 1.

Table 1.--LOWER LIMITS OF ANALYTICAL DETERMINATION
FOR ROCK SAMPLES, EAST-CENTRAL ALPINE COUNTY,
CALIFORNIA

Element	Lower limit of determination	
	percent	ppm
Mg	0.02	
Ca	0.05	
Mn		10
Ag		0.5
As		200
Au ¹		10
B		10
Be		1
Bi		10
Cd ¹		20
Co		5
Cr		10
Cu		5
La		20
Mo		5
Nb ¹		20
Ni		5
Sb		100
Sc		5
Sn		10
Sr		100
V		10
W		50
Y		10
Zn		200
Th ¹		100

¹ All samples reported as "N"--Deleted from table 2.

Table 2.--Data for Rock Samples, East-central Alpine County, California

sample	LATITUDE	LONGITUDE	S-FEX	S-MG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-B
FCB002	38 32 58	119 50 32	1.00	.50	1.00	.20	700	N	N	<10
FCB004	38 32 5	119 49 11	1.00	.50	1.00	.30	500	N	N	<10
FCB006	38 32 5	119 48 0	5.00	1.00	2.00	.50	1,000	N	N	10
FCB007	38 31 55	119 47 30	5.00	1.00	2.00	.50	700	N	N	15
FCB008	38 31 31	119 47 22	5.00	1.00	1.50	.70	1,000	N	N	10
FCB011	38 33 35	119 51 17	5.00	2.00	2.00	.50	1,500	N	N	10
FCB013	38 33 59	119 51 20	5.00	1.50	3.00	.50	700	N	N	<10
FCB014	38 34 7	119 51 32	5.00	1.50	1.50	.70	1,000	N	N	<10
FCB015	38 34 13	119 50 58	.50	.02	.10	.70	20	30.0	N	<10
FCB016A	38 34 38	119 50 53	2.00	.10	.50	.30	200	N	N	20
FCB016B	38 34 38	119 50 53	1.50	.15	1.00	.50	200	N	N	15
FCB017	38 33 56	119 50 35	5.00	1.00	2.00	.50	1,000	N	N	15
FCB018	38 33 46	119 50 53	5.00	2.00	3.00	.70	1,000	N	N	<10
FCB020	38 33 27	119 49 0	.50	.15	.70	.10	500	N	N	10
FCB021	38 33 5	119 49 7	2.00	.20	1.50	.30	1,000	N	N	<10
FCB022	38 32 58	119 49 10	1.00	.30	1.00	.30	500	N	N	N
FCB023	38 34 5	119 49 46	5.00	1.50	2.00	.50	1,000	N	N	20
FCB025	38 34 53	119 47 18	7.00	.07	.10	.70	100	N	<200	10
FCB026	38 34 40	119 47 22	5.00	1.00	2.00	.70	1,000	N	N	<10
FCB027	38 31 51	119 46 35	3.00	1.00	2.00	.50	1,000	N	N	20
FCB033	38 34 50	119 48 37	2.00	.50	1.00	.30	700	N	N	<10
FCB035	38 33 47	119 48 20	1.50	.20	1.00	.50	500	N	N	<10
FCB036	38 35 3	119 48 20	.70	.10	<.05	.10	20	7.0	N	10
FCB037	38 34 53	119 48 11	1.50	.50	1.00	.50	300	N	N	<10
FCB038	38 35 12	119 47 28	5.00	.70	2.00	.70	700	N	N	<10
FCB040	38 34 54	119 47 50	.50	.15	.05	.15	20	5.0	<200	N
FCB041	38 35 7	119 47 40	5.00	1.00	2.00	.50	1,000	N	N	<10
FCB042A	38 35 0	119 48 40	7.00	2.00	5.00	.70	1,500	N	N	<10
FCB042B	38 35 0	119 48 40	1.50	.70	1.00	.50	500	N	N	N
FCB042C	38 35 0	119 48 40	2.00	.30	1.50	.30	500	N	N	N
FCB043	38 35 0	119 49 27	5.00	.30	2.00	.50	2,000	N	N	10
FCB044	38 35 18	119 49 58	3.00	.70	2.00	.50	1,500	N	N	10
FCB045	38 35 29	119 49 35	5.00	1.00	3.00	.50	1,500	N	N	10
FCB046	38 35 23	119 49 20	5.00	1.50	1.00	.70	1,500	N	N	10
FCB049	38 35 12	119 48 38	1.50	.50	1.00	.20	500	N	N	<10
FCB050	38 35 13	119 48 27	.70	<.02	<.05	.20	<10	1.5	<200	N
FCB051	38 35 12	119 48 12	.50	.02	.30	.05	10	N	N	10
FCB053	38 35 30	119 47 45	.70	.05	.20	.05	20	N	N	N
FCB054	38 35 30	119 47 30	1.50	.30	.10	.50	300	N	N	10
FCB055	38 36 18	119 47 43	.70	.15	.10	.10	200	N	N	15
FCB056	38 36 23	119 47 30	2.00	1.00	3.00	.50	700	N	N	<10
FCB057	38 36 29	119 47 27	5.00	.50	1.50	.10	700	N	N	<10
FCB058	38 36 39	119 47 20	5.00	1.00	2.00	.50	1,500	N	N	<10
FCB059	38 36 50	119 47 17	5.00	1.00	2.00	.70	1,000	<.5	N	15
FCB061	38 36 57	119 46 58	5.00	1.00	3.00	.50	1,000	N	N	20

Table 2.--Data for Rock Samples, East-central Alpine County, California

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB002	500	1.0	N	7	<10	<5	20	N	<5	50
FCB004	500	1.0	N	5	N	10	30	N	N	50
FCB006	1,500	<1.0	N	20	50	20	50	<5	20	20
FCB007	1,000	1.0	N	20	20	10	50	N	20	20
FCB008	1,500	<1.0	N	15	70	15	50	N	30	50
FCB011	1,000	1.0	N	15	20	7	50	N	10	20
FCB013	1,500	<1.0	N	30	30	20	50	N	15	30
FCB014	1,000	<1.0	N	20	70	15	30	N	30	30
FCB015	300	N	N	5	20	30	<20	10	N	150
FCB016A	2,000	2.0	N	N	<10	<5	70	5	<5	50
FCB016B	2,000	2.0	N	5	<10	<5	100	N	<5	50
FCB017	1,000	1.0	N	20	50	20	30	N	20	50
FCB018	1,500	1.0	N	20	200	50	70	<5	100	50
FCB020	2,000	1.5	N	N	N	N	50	N	<5	70
FCB021	1,000	1.0	N	5	10	5	30	N	<5	50
FCB022	1,000	1.0	N	5	N	7	50	N	<5	70
FCB023	700	<1.0	N	30	100	30	50	N	50	30
FCB025	2,000	N	<10	<5	10	5	100	10	N	100
FCB026	300	1.0	N	20	20	30	50	<5	10	30
FCB027	1,500	1.0	N	10	50	20	50	N	20	30
FCB033	1,000	<1.0	N	10	<10	10	50	N	5	50
FCB035	1,000	1.0	N	10	10	10	50	7	5	50
FCB036	100	1.0	N	<5	N	30	20	70	<5	30
FCB037	1,000	1.0	N	5	<10	7	20	5	<5	50
FCB038	1,000	1.0	N	15	50	50	30	N	20	30
FCB040	500	<1.0	N	<5	N	<5	20	150	N	50
FCB041	1,000	<1.0	N	20	70	20	30	N	30	20
FCB042A	1,000	<1.0	N	30	300	50	30	N	50	20
FCB042B	1,000	<1.0	N	10	<10	5	30	N	10	50
FCB042C	1,000	1.0	N	5	<10	7	30	N	<5	50
FCB043	1,500	<1.0	N	15	<10	20	50	N	5	30
FCB044	1,500	<1.0	N	10	20	10	30	N	5	20
FCB045	1,000	<1.0	N	20	30	10	50	N	5	20
FCB046	1,500	1.0	N	20	20	10	50	N	20	50
FCB049	700	1.0	N	7	<10	5	30	N	5	50
FCB050	30	<1.0	N	N ⁴	N	<5	70	<5	N	10
FCB051	<20	5.0	N	N	N	<5	20	N	<5	100
FCB053	50	1.5	N	N	N	<5	N	N	N	100
FCB054	700	1.0	N	7	<10	<5	30	N	10	15
FCB055	200	2.0	N	N	N	<5	70	N	<5	30
FCB056	1,500	1.0	N	10	30	20	50	N	20	30
FCB057	200	<1.0	N	7	20	7	30	N	<5	10
FCB058	1,500	1.0	N	20	70	30	50	N	30	30
FCB059	1,000	<1.0	N	20	50	30	30	N	50	30
FCB061	1,000	1.0	N	20	50	15	30	N	20	20

Table 2.--Data for Rock Samples, East-central Alpine County, California

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FC8002	N	<5	N	500	70	N	N	N	30
FC8004	N	<5	N	500	70	N	N	N	20
FC8006	N	10	N	1,000	200	N	20	N	100
FC8007	N	10	N	1,000	100	N	15	N	100
FC8008	N	10	N	700	150	N	15	N	100
FC8011	N	10	N	700	150	N	20	N	100
FC8013	N	30	N	1,000	300	N	20	N	70
FC8014	N	15	N	700	200	N	20	N	70
FC8015	N	<5	N	100	20	N	N	N	700
FC8016A	N	7	N	200	50	N	20	N	200
FC8016B	N	7	N	500	50	N	70	N	200
FC8017	N	10	N	1,000	150	N	15	N	100
FC8018	N	15	N	1,500	200	N	20	N	100
FC8020	N	N	N	500	<10	N	10	N	70
FC8021	N	5	N	700	100	N	10	N	50
FC8022	N	<5	N	500	70	N	N	N	20
FC8023	N	20	N	700	150	N	20	N	70
FC8025	N	7	N	200	200	N	N	N	150
FC8026	N	10	N	1,000	150	N	15	N	70
FC8027	N	7	N	1,000	100	N	15	N	100
FC8033	N	5	N	500	100	N	<10	N	50
FC8035	N	5	N	500	150	N	N	N	70
FC8036	N	N	N	N	100	N	N	N	20
FC8037	N	5	N	500	100	N	10	N	50
FC8038	N	15	N	500	200	N	15	N	100
FC8040	N	<5	N	N	70	N	N	N	30
FC8041	N	15	N	500	200	N	20	N	70
FC8042A	N	20	N	1,000	300	N	20	N	100
FC8042B	N	5	N	500	70	N	<10	N	50
FC8042C	N	5	N	500	100	N	N	N	70
FC8043	N	10	N	700	200	N	20	N	100
FC8044	N	10	N	1,000	150	N	20	N	100
FC8045	N	10	N	1,000	200	N	20	N	100
FC8046	N	7	N	1,000	150	N	20	N	70
FC8049	N	<5	N	300	70	N	10	N	70
FC8050	N	N	N	100	70	N	<10	N	150
FC8051	N	N	N	N	10	N	N	N	70
FC8053	N	N	N	100	15	N	N	N	10
FC8054	N	<5	N	100	150	N	20	N	50
FC8055	N	5	N	100	10	N	20	N	100
FC8056	N	7	N	500	100	N	15	N	70
FC8057	N	5	N	100	100	N	10	N	30
FC8058	N	10	N	1,000	150	N	20	N	100
FC8059	N	15	N	1,000	200	N	20	N	100
FC8061	N	10	N	700	150	N	20	N	100

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	LATITUDE	LONGITUDE	S-FEZ	S-MG%	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-B
FCB062	38 37 13	119 47 23	5.00	1.00	3.00	.50	1,000	N	N	<10
FCB063	38 37 15	119 47 37	5.00	1.00	2.00	.70	700	N	N	10
FCB064	38 36 43	119 47 33	5.00	2.00	3.00	.70	1,500	N	N	10
FCB065	38 36 20	119 48 13	2.00	.70	1.00	.50	500	N	N	<10
FCB066	38 36 37	119 48 15	7.00	1.50	3.00	.50	1,500	N	N	10
FCB067	38 36 26	119 48 25	1.00	.15	.10	.15	300	N	N	<10
FCB068	38 36 23	119 48 45	5.00	1.50	2.00	.70	1,000	N	N	10
FCB069	38 36 20	119 49 0	7.00	1.50	3.00	.50	700	N	N	<10
FCB070	38 35 46	119 49 5	7.00	2.00	2.00	.50	1,500	N	N	15
FCB071	38 35 56	119 48 32	7.00	2.00	5.00	.50	1,000	N	N	15
FCB075	38 36 8	119 48 0	5.00	1.50	5.00	.50	1,000	N	N	<10
FCB076	38 35 50	119 47 28	5.00	1.50	3.00	.70	2,000	N	N	<10
FCB077	38 35 42	119 47 39	5.00	1.50	1.50	.50	700	N	N	10
FCB078	38 36 8	119 47 35	7.00	2.00	5.00	.50	1,500	N	N	10
FCB079	38 35 22	119 48 30	5.00	1.50	3.00	.50	700	N	N	10
FCB080	38 35 30	119 48 38	5.00	1.50	2.00	.70	1,000	N	N	10
FCB081	38 35 28	119 48 17	10.00	1.00	5.00	.70	1,000	N	N	10
FCB082	38 35 40	119 48 14	5.00	1.00	2.00	.70	1,000	N	N	10
FCB083	38 35 40	119 47 15	2.00	.50	1.50	.30	500	N	N	<10
FCB084	38 35 30	119 47 8	2.00	.50	1.00	.50	500	N	N	10
FCB085	38 35 21	119 47 23	5.00	1.00	2.00	.70	1,000	N	N	10
FCB086	38 35 8	119 47 13	7.00	1.00	2.00	.50	1,500	N	N	10
FCB087	38 35 15	119 47 6	3.00	.30	.07	.50	70	2.0	N	15
FCB088	38 36 5	119 46 35	5.00	2.00	1.50	.50	1,000	N	N	<10
FCB089A	38 37 7	119 46 37	20.00	.20	.10	.50	100	10.0	10,000	10
FCB089B	38 37 7	119 46 37	1.50	.20	.10	.30	50	7.0	N	10
FCB090	38 30 47	119 47 22	.20	<.02	.30	.07	<10	N	N	N
FCB091	38 31 2	119 47 0	7.00	.15	2.00	.70	500	N	N	20
FCB093	38 30 49	119 46 13	3.00	1.50	3.00	.70	700	N	N	15
FCB094	38 30 18	119 46 42	5.00	1.00	3.00	.50	2,000	N	N	<10
FCB095	38 35 8	119 46 50	.20	.05	.10	.10	50	N	N	N
FCB096	38 34 57	119 46 38	7.00	2.00	5.00	.70	1,500	N	N	<10
FCB097	38 34 57	119 45 54	5.00	1.00	2.00	.50	700	N	N	20
FCB098	38 34 38	119 45 32	1.50	.15	.70	.20	150	N	N	20
FCB099	38 34 2	119 45 45	5.00	1.00	1.50	.50	1,000	N	N	20
FCB100	38 34 5	119 46 12	3.00	.70	1.50	.50	500	N	N	20
FCB101	38 34 25	119 46 28	5.00	2.00	2.00	.70	1,000	N	N	<10
FCB102	38 34 47	119 46 51	5.00	1.00	1.50	.50	2,000	N	N	<10
FCB103	38 34 56	119 47 0	2.00	.70	1.50	.20	700	N	N	<10
FCB104	38 33 28	119 46 28	.70	.15	.70	.20	150	N	N	10
FCB105	38 33 13	119 45 45	1.00	.30	1.00	.30	500	N	N	20
FCB106	38 32 40	119 45 15	3.00	1.50	1.50	.50	700	N	N	15
FCB107	38 32 13	119 45 42	2.00	1.00	1.00	.30	700	N	N	30
FCB108	38 32 38	119 46 17	5.00	1.00	2.00	.50	700	N	N	10
FCB109	38 40 32	119 43 43	.50	.20	<.05	1.00	10	N	N	1,000

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB062	1,000	<1.0	N	15	20	15	50	N	5	20
FCB063	1,000	<1.0	N	20	50	10	30	<5	15	30
FCB064	1,500	<1.0	N	20	200	30	30	N	50	30
FCB065	1,000	1.0	N	7	<10	5	70	N	5	50
FCB066	1,000	<1.0	N	20	70	20	20	N	20	20
FCB067	300	<1.0	N	<5	20	10	30	N	10	<10
FCB068	2,000	<1.0	N	30	70	50	100	N	30	50
FCB069	1,000	<1.0	N	20	30	30	50	N	30	30
FCB070	1,000	1.0	N	30	20	50	30	N	20	30
FCB071	1,500	<1.0	N	15	70	15	30	N	30	10
FCB075	500	<1.0	N	30	30	20	30	N	15	30
FCB076	700	<1.0	N	20	500	20	30	5	70	20
FCB077	200	<1.0	N	30	100	20	30	N	30	20
FCB078	2,000	1.0	N	30	200	30	30	N	50	20
FCB079	1,000	<1.0	N	30	70	20	30	N	20	30
FCB080	700	<1.0	N	30	30	15	50	N	15	20
FCB081	2,000	<1.0	N	20	30	10	30	N	10	20
FCB082	1,000	<1.0	N	20	70	20	30	<5	30	20
FCB083	1,000	1.0	N	7	<10	50	50	N	<5	50
FCB084	1,000	1.0	N	10	<10	7	50	<5	5	50
FCB085	700	1.0	N	20	15	50	50	N	15	30
FCB086	1,000	1.0	N	20	50	30	20	N	30	30
FCB087	500	1.0	N	<5	<10	5	50	10	<5	50
FCB088	1,500	<1.0	N	20	50	20	30	N	20	20
FCB039A	200	1.0	N	7	50	30	30	5	7	30
FCB089B	150	1.0	N	20	50	10	30	50	10	20
FCB090	100	1.5	N	<5	N	<5	20	N	<5	70
FCB091	1,000	1.0	N	20	50	30	30	N	15	30
FCB093	1,500	1.0	N	20	100	20	50	N	30	30
FCB094	1,500	<1.0	N	20	50	150	50	N	20	20
FCB095	50	1.0	N	N	N	N	<20	N	N	70
FCB096	150	<1.0	N	50	100	20	30	N	50	15
FCB097	1,500	1.0	N	20	70	15	50	N	30	30
FCB098	1,500	1.5	N	N	N	<5	70	5	5	70
FCB099	1,500	1.5	N	15	10	10	50	<5	7	50
FCB100	1,500	1.0	N	20	100	20	50	N	50	50
FCB101	1,500	1.0	N	20	150	15	30	N	100	50
FCB102	2,000	1.0	N	10	30	7	70	N	7	30
FCB103	1,000	1.0	N	7	20	<5	30	N	<5	30
FCB104	1,500	1.5	N	N	N	<5	70	N	<5	30
FCB105	1,500	1.5	N	7	<10	5	50	N	5	50
FCB106	1,500	1.0	N	15	70	10	70	N	50	50
FCB107	1,000	1.0	N	10	50	7	50	5	15	50
FCB108	1,500	1.0	N	20	70	30	70	<5	50	30
FCB109	1,000	<1.0	N	N	50	<5	100	N	N	20

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FCB062	N	15	N	1,000	200	N	20	N	100
FCB063	N	10	N	700	150	N	15	N	100
FCB064	N	15	N	700	200	N	20	N	100
FCB065	N	5	N	700	100	N	10	N	100
FCB066	N	15	N	700	200	N	15	N	70
FCB067	N	5	N	100	200	N	N	N	70
FCB068	N	20	N	2,000	200	N	20	N	100
FCB069	N	10	N	1,000	100	N	20	N	100
FCB070	N	20	N	700	200	N	20	N	100
FCB071	N	15	N	500	100	N	15	N	100
FCB075	N	15	N	1,000	200	N	20	N	70
FCB076	N	20	N	500	200	N	20	N	70
FCB077	N	15	N	300	150	N	15	N	70
FCB078	N	20	N	1,000	200	N	20	N	100
FCB079	N	20	N	700	200	N	15	N	100
FCB080	N	20	N	1,000	300	N	30	N	100
FCB081	N	15	N	500	200	N	20	N	100
FCB082	N	15	N	1,000	150	N	15	N	100
FCB083	N	5	N	700	100	N	10	N	50
FCB084	N	5	N	500	100	N	<10	N	50
FCB085	N	10	N	1,000	200	N	20	N	100
FCB086	N	10	N	700	150	N	15	N	100
FCB087	N	5	N	200	100	N	20	N	30
FCB088	N	10	N	500	200	N	15	N	100
FCB089A	<100	15	N	100	100	N	10	N	50
FCB089B	N	7	N	100	200	N	10	N	50
FCB090	N	N	N	150	20	N	N	N	20
FCB091	N	15	N	700	200	N	20	N	100
FCB093	N	15	N	1,000	150	N	15	N	100
FCB094	N	15	N	1,500	200	N	15	N	70
FCB095	N	<5	N	N	<10	N	10	N	20
FCB096	N	20	N	500	300	N	20	N	70
FCB097	N	10	N	700	150	N	10	N	100
FCB098	N	<5	N	500	30	N	10	N	150
FCB099	N	7	N	1,000	100	N	20	N	100
FCB100	N	10	N	500	150	N	20	N	100
FCB101	N	10	N	700	100	N	15	N	100
FCB102	N	5	N	700	100	N	20	N	150
FCB103	N	5	N	500	100	N	10	N	70
FCB104	N	<5	N	300	50	N	10	N	100
FCB105	N	5	N	500	70	N	10	N	70
FCB106	N	7	N	700	100	N	15	N	70
FCB107	N	7	N	700	100	N	10	N	100
FCB108	N	10	N	700	150	N	20	N	100
FCB109	N	15	N	100	300	N	20	N	200

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	LATITUDE	LONGITUDE	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-B
FCB110	38 40 39	119 43 52	5.00	1.50	.10	.50	1,000	.5	500	50
FCB111	38 40 46	119 43 44	5.00	2.00	2.00	.50	2,000	N	N	10
FCB112	38 41 0	119 43 32	5.00	2.00	2.00	.70	1,500	N	N	10
FCB113	38 41 13	119 43 20	3.00	2.00	1.00	.30	700	N	N	20
FCB114	38 41 1	119 43 5	3.00	1.00	.10	.50	1,500	N	N	100
FCB116	38 40 50	119 43 15	2.00	1.00	2.00	.50	1,000	N	N	10
FCB117	38 40 42	119 43 30	5.00	2.00	1.50	.50	2,000	N	N	10
FCB119	38 40 33	119 43 16	.20	.03	.07	.70	70	N	N	N
FCB120	38 40 22	119 43 28	1.50	.05	.05	.50	10	N	N	50
FCB121	38 40 13	119 43 16	.05	.07	.10	1.00	20	N	N	<10
FCB122	38 41 1	119 42 44	.15	.02	<.05	.70	10	N	N	N
FCB123	38 41 13	119 42 57	2.00	<.02	.07	.50	50	N	1,000	10
FCB124A	38 41 20	119 42 48	10.00	.02	.10	.70	<10	N	300	10
FCB124B	38 41 20	119 42 48	10.00	<.02	.10	.70	30	N	N	<10
FCB125	38 41 22	119 42 58	1.00	.03	<.05	.70	10	N	<200	<10
FCB126	38 41 37	119 42 47	3.00	1.00	2.00	.50	700	N	N	20
FCB127	38 41 50	119 42 35	3.00	1.00	2.00	.50	1,000	N	N	30
FCB128	38 42 7	119 42 23	3.00	1.00	1.50	.30	500	N	N	15
FCB129	38 40 2	119 43 2	.10	.05	<.05	1.00	50	N	N	N
FCB130	38 40 7	119 42 35	.50	.20	.05	.15	300	1.0	N	20
FCB131	38 40 13	119 42 34	.70	.10	.05	.07	700	.7	N	10
FCB132	38 40 19	119 42 37	1.50	.30	.07	.50	100	N	N	30
FCB133	38 40 24	119 42 43	1.00	.15	.05	.30	50	15.0	N	<10
FCB134	38 40 16	119 42 51	1.00	.05	.07	.30	70	N	N	<10
FCB135	38 40 10	119 42 45	.20	.20	.07	.10	150	N	N	15
FCB136	38 40 21	119 42 54	5.00	.70	2.00	.50	1,500	N	N	20
FCB137	38 40 23	119 43 5	5.00	1.00	1.50	.50	2,000	N	N	10
FCB138	38 40 33	119 42 45	1.50	.20	.07	.70	100	N	N	20
FCB139A	38 40 27	119 42 36	5.00	.50	.50	.50	200	N	N	70
FCB139B	38 40 27	119 42 36	1.50	.15	.20	.50	200	N	N	15
FCB139C	38 40 27	119 42 36	2.00	.50	1.00	.30	1,000	N	N	50
FCB139D	38 40 27	119 42 36	3.00	.50	.70	.30	500	N	N	20
FCB140	38 40 27	119 42 27	1.50	.30	.05	.30	50	N	N	50
FCB141	38 40 23	119 42 24	1.00	.10	.05	.30	50	20.0	N	15
FCB142	38 40 27	119 42 18	.20	.10	.05	.05	500	30.0	N	<10
FCB143	38 40 42	119 42 42	.50	.15	.07	.15	100	5.0	N	10
FCB145	38 40 33	119 42 7	.20	.07	.15	.05	50	N	N	20
FCB146	38 40 27	119 42 0	2.00	.15	.05	.30	700	1.5	N	50
FCB147	38 40 20	119 41 58	1.50	.50	.05	.30	150	.7	N	20
FCB148	38 40 15	119 41 52	5.00	1.00	<.05	1.00	700	N	N	50
FCB149	38 38 58	119 41 23	7.00	1.00	5.00	.70	2,000	N	N	<10
FCB150	38 39 20	119 42 3	1.50	<.02	<.05	.30	<10	N	N	20
FCB151	38 39 13	119 42 10	10.00	.15	.20	.70	500	N	N	20
FCB152	38 38 55	119 42 37	3.00	1.00	2.00	.70	500	N	N	20
FCB153	38 38 45	119 45 9	5.00	1.00	5.00	.70	1,000	N	N	10

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB110	1,500	<1.0	N	N	10	7	20	5	<5	30
FCB111	1,500	<1.0	N	20	10	50	30	5	<5	50
FCB112	1,500	<1.0	N	30	100	70	50	N	50	50
FCB113	1,000	1.0	N	7	70	10	20	N	30	20
FCB114	500	<1.0	N	10	<10	5	30	10	<5	20
FCB116	1,500	1.0	N	15	70	10	50	5	30	100
FCB117	1,500	<1.0	N	20	70	50	50	7	50	100
FCB119	200	N	N	N	10	<5	N	10	N	20
FCB120	100	<1.0	N	N	50	5	50	15	<5	70
FCB121	2,000	N	N	N	50	5	<20	N	N	200
FCB122	200	N	N	N	10	7	<20	20	<5	<10
FCB123	500	N	N	<5	20	50	<20	7	N	500
FCB124A	2,000	N	N	N	70	70	70	50	N	50
FCB124B	1,000	N	N	10	50	70	70	7	30	30
FCB125	150	N	N	N	20	15	20	10	N	70
FCB126	2,000	1.5	N	20	70	70	100	7	100	100
FCB127	2,000	1.0	N	10	15	30	50	5	<5	50
FCB128	1,000	<1.0	N	10	70	50	50	N	70	50
FCB129	500	N	N	<5	20	<5	<20	50	N	50
FCB130	2,000	1.5	N	N	10	10	30	7	N	100
FCB131	1,000	2.0	N	N	N	<5	20	10	N	50
FCB132	2,000	1.0	N	5	30	20	50	7	<5	30
FCB133	1,000	<1.0	N	N	20	5	20	50	<5	50
FCB134	2,000	<1.0	N	5	20	10	50	<5	<5	20
FCB135	2,000	1.5	N	N	N	<5	50	5	N	20
FCB136	2,000	<1.0	N	15	50	20	50	<5	15	50
FCB137	1,500	<1.0	N	20	10	<5	50	N	<5	50
FCB138	500	<1.0	N	5	15	15	20	10	<5	20
FCB139A	1,500	1.0	N	15	100	150	50	5	15	50
FCB139B	5,000	1.0	N	N	30	20	30	5	N	100
FCB139C	1,500	1.0	N	7	30	30	50	7	7	50
FCB139D	300	1.0	N	15	10	<5	30	N	<5	20
FCB140	1,500	<1.0	N	N	30	10	50	5	N	70
FCB141	150	<1.0	N	<5	10	5	20	1,000	<5	100
FCB142	500	2.0	N	N	N	<5	20	70	<5	20
FCB143	1,500	<1.0	N	<5	20	10	20	100	<5	500
FCB145	300	1.0	N	N	N	5	20	5	<5	20
FCB146	2,000	<1.0	N	<5	20	15	20	20	<5	50
FCB147	300	<1.0	N	<5	20	30	50	15	<5	50
FCB148	300	<1.0	N	<5	10	50	30	5	<5	20
FCB149	1,500	<1.0	N	20	10	20	50	N	<5	20
FCB150	1,500	N	200	N	10	7	20	10	N	100
FCB151	1,500	<1.0	N	5	30	70	50	7	5	50
FCB152	1,000	<1.0	N	10	30	30	30	5	20	20
FCB153	1,000	<1.0	N	20	70	20	30	<5	20	20

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FCB110	N	10	N	200	150	N	10	N	100
FCB111	N	10	N	700	200	N	20	N	70
FCB112	N	20	N	1,500	200	N	20	N	150
FCB113	N	7	N	500	150	N	10	N	100
FCB114	N	5	N	200	150	N	15	N	70
FCB116	N	7	N	1,000	150	N	20	N	100
FCB117	N	10	N	1,000	150	N	20	N	100
FCB119	N	7	N	N	50	N	N	N	200
FCB120	N	10	N	100	200	N	10	N	150
FCB121	N	7	N	2,000	200	N	10	N	150
FCB122	N	N	N	<100	15	N	N	N	70
FCB123	N	N	N	100	20	N	N	N	10
FCB124A	N	30	N	3,000	300	N	30	N	200
FCB124B	100	20	N	5,000	150	N	15	N	200
FCB125	N	N	N	<100	20	N	N	N	50
FCB126	N	10	N	1,500	200	N	30	500	200
FCB127	N	7	N	1,000	150	N	20	N	100
FCB128	N	10	N	1,000	150	N	10	N	70
FCB129	N	N	N	200	20	N	N	N	100
FCB130	N	<5	N	100	20	N	10	N	100
FCB131	N	<5	N	<100	<10	N	10	N	70
FCB132	N	7	N	150	100	N	10	N	100
FCB133	N	5	N	150	70	<50	N	N	100
FCB134	N	7	N	500	100	<50	10	N	100
FCB135	N	N	N	100	10	N	<10	N	70
FCB136	N	10	N	3,000	150	N	15	N	100
FCB137	N	7	N	500	100	N	15	N	150
FCB138	N	7	N	200	200	<50	10	N	100
FCB139A	N	10	N	200	150	N	10	N	150
FCB139B	N	<5	N	300	50	N	N	N	100
FCB139C	N	5	N	150	100	N	10	N	150
FCB139D	N	5	N	200	70	N	15	N	150
FCB140	N	5	N	N	100	N	10	N	200
FCB141	N	5	10	100	200	N	N	N	100
FCB142	N	N	N	N	30	N	10	N	50
FCB143	N	<5	N	500	50	N	<10	N	70
FCB145	N	<5	N	100	<10	N	N	N	50
FCB146	N	5	N	100	100	N	10	N	70
FCB147	N	5	N	N	100	N	<10	N	100
FCB148	N	30	N	150	300	N	10	N	100
FCB149	N	15	N	1,000	200	N	20	N	150
FCB150	N	N	N	500	10	N	N	N	50
FCB151	N	10	N	2,000	200	N	20	N	150
FCB152	N	15	N	1,000	200	N	20	N	100
FCB153	N	20	N	1,000	200	N	20	N	100

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	LATITUDE	LONGITUDE	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-B
FCB154	38 38 10	119 45 32	5.00	.70	1.50	.50	1,000	N	N	20
FCB155	38 37 51	119 45 56	5.00	1.00	2.00	.50	500	N	N	10
FCB156	38 37 26	119 46 49	5.00	1.00	3.00	.50	1,000	N	N	<10
FCB157	38 37 38	119 47 0	5.00	.50	2.00	.50	1,000	N	N	<10
FCB158	38 37 30	119 47 8	5.00	.70	2.00	.70	1,000	N	N	<10
FCB159	38 37 15	119 47 0	5.00	2.00	3.00	.50	1,500	N	N	<10
FCB160	38 37 42	119 47 18	5.00	1.00	2.00	.50	1,000	N	N	<10
FCB161	38 38 0	119 46 42	5.00	1.00	1.50	.70	500	N	N	<10
FCB162	38 38 45	119 46 5	3.00	1.00	2.00	.30	500	N	N	20
FCB163	38 39 12	119 45 31	2.00	.10	.20	.30	150	N	N	20
FCB164	38 37 26	119 45 15	5.00	1.50	2.00	.50	1,000	N	N	<10
FCB165	38 37 53	119 44 57	5.00	2.00	5.00	.50	1,000	N	N	15
FCB166	38 38 15	119 44 23	5.00	2.00	7.00	.50	1,500	N	N	10
FCB167	38 38 57	119 44 37	.50	.02	.05	.70	10	.5	N	N
FCB168	38 39 37	119 44 47	3.00	1.50	2.00	.50	500	N	N	20
FCB169	38 39 50	119 44 32	3.00	.03	.07	.50	30	N	N	10
FCB170	38 39 48	119 43 57	2.00	.15	.05	.50	20	N	N	20
FCB171	38 38 45	119 43 48	7.00	2.00	3.00	.70	1,000	N	N	<10
FCB172	38 38 32	119 43 38	5.00	.50	2.00	.50	200	N	N	<10
FCB173	38 37 52	119 43 45	5.00	1.50	3.00	.50	500	N	N	15
FCB174	38 37 18	119 44 17	5.00	1.50	3.00	.50	1,000	N	N	<10
FCB175	38 41 55	119 42 3	2.00	.02	<.05	1.00	50	.5	N	N
FCB176	38 41 51	119 41 52	7.00	1.00	.07	.70	100	N	N	20
FCB177	38 41 43	119 41 41	.50	.02	<.05	.70	<10	N	N	N
FCB178	38 41 39	119 41 32	.50	.02	.07	.70	<10	N	N	N
FCB179	38 41 29	119 41 22	2.00	1.00	2.00	.30	700	N	N	10
FCB180	38 41 18	119 41 45	1.00	.02	<.05	.70	10	10.0	N	N
FCB181	38 41 15	119 41 49	3.00	.02	.07	.70	20	N	N	<10
FCB182	38 41 3	119 41 58	5.00	<.02	<.05	1.00	10	15.0	1,000	10
FCB183	38 40 57	119 41 55	15.00	.05	<.05	.70	70	70.0	500	<10
FCB184	38 40 58	119 42 13	20.00	<.02	N	.70	<10	50.0	N	<10
FCB185	38 41 7	119 42 5	>20.00	N	<.05	.30	N	70.0	3,000	30
FCB186	38 41 14	119 42 0	5.00	2.00	2.00	.50	1,500	N	N	10
FCB187	38 41 23	119 42 0	3.00	.30	.05	1.00	70	2.0	N	10
FCB188	38 41 30	119 42 17	.70	.02	<.05	.70	100	5.0	N	N
FCB189	38 40 59	119 42 31	.70	.10	.10	.10	200	N	N	20
FCB190A	38 40 50	119 42 9	5.00	1.50	2.00	.50	1,000	N	N	15
FCB190B	38 40 50	119 42 9	7.00	.07	1.00	.50	50	150.0	1,000	20
FCB191	38 40 57	119 42 25	.50	.10	.50	.07	700	N	N	50
FCB192	38 41 2	119 42 22	3.00	.02	.07	.50	50	50.0	N	10
FCB193	38 41 15	119 42 43	.50	.02	.05	.70	20	N	N	N
FCB194	38 40 15	119 42 19	.10	.10	.05	.07	1,000	30.0	N	10
FCB195	38 39 59	119 41 39	1.00	.50	.05	.50	50	1.0	N	2,000
FCB196	38 40 2	119 41 33	3.00	1.50	1.00	.50	1,000	N	N	10
FCB197	38 40 6	119 41 35	3.00	3.00	.05	.50	1,500	<.5	N	15

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB154	1,500	1.0	N	10	10	10	50	5	5	50
FCB155	1,500	<1.0	N	10	<10	7	30	N	<5	30
FCB156	1,000	<1.0	N	20	50	30	30	N	20	30
FCB157	1,000	<1.0	N	20	50	20	30	N	15	30
FCB158	1,500	<1.0	N	10	10	20	50	N	5	30
FCB159	500	<1.0	N	30	300	50	30	<5	50	20
FCB160	1,000	<1.0	N	20	15	15	30	5	5	20
FCB161	1,500	<1.0	N	20	30	20	50	<5	5	30
FCB162	1,500	1.0	N	10	70	20	50	5	50	50
FCB163	1,500	<1.0	N	N	50	15	50	7	<5	50
FCB164	1,500	<1.0	N	30	70	50	100	N	50	50
FCB165	1,500	<1.0	N	20	30	20	50	N	5	20
FCB166	1,000	<1.0	N	10	N	15	50	N	N	20
FCB167	5,000	<1.0	200	N	10	50	20	10	N	20
FCB168	1,500	<1.0	N	20	70	50	50	<5	30	50
FCB169	1,000	<1.0	N	N	70	50	70	5	N	50
FCB170	1,500	<1.0	N	N	50	20	70	5	N	70
FCB171	1,500	1.0	N	30	30	70	70	N	20	30
FCB172	1,500	<1.0	N	10	10	10	50	N	<5	30
FCB173	1,500	<1.0	N	15	20	15	20	N	N	70
FCB174	1,000	<1.0	N	30	20	20	30	N	7	30
FCB175	5,000	N	N	<5	20	50	20	7	N	50
FCB176	500	<1.0	N	N	20	20	30	N	N	50
FCB177	1,000	N	N	<5	N	7	20	<5	<5	50
FCB178	1,000	<1.0	N	N	50	10	100	N	<5	50
FCB179	1,500	<1.0	N	10	50	15	50	N	30	70
FCB180	700	N	N	<5	20	10	20	<5	<5	50
FCB181	700	N	N	<5	150	30	100	5	N	100
FCB182	300	N	N	N	20	100	20	7	N	200
FCB183	1,500	N	10	20	50	1,500	50	N	50	500
FCB184	5,000	N	N	<5	30	300	<20	5	N	50
FCB185	300	N	15	70	20	10,000	20	10	70	500
FCB186	1,000	<1.0	N	50	70	30	50	N	50	20
FCB187	2,000	1.0	N	<5	100	30	100	5	N	5,000
FCB188	200	N	N	N	20	10	<20	7	N	100
FCB189	1,500	2.0	N	N	<10	<5	50	N	N	70
FCB190A	700	<1.0	N	20	30	<5	20	N	20	20
FCB190B	500	N	20	5	10	1,500	50	N	<5	1,000
FCB191	1,500	2.0	N	<5	N	<5	50	5	<5	100
FCB192	3,000	N	<10	7	200	70	100	N	50	15,000
FCB193	150	N	N	N	<10	10	<20	N	N	100
FCB194	150	1.0	N	N	<10	N	<20	100	N	50
FCB195	1,000	<1.0	N	5	10	7	70	15	10	50
FCB196	1,000	<1.0	N	20	10	10	50	N	30	15
FCB197	1,500	<1.0	N	20	70	20	50	<5	50	<10

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FCB154	N	7	N	1,000	100	N	15	N	100
FCB155	N	7	N	1,000	100	N	15	N	100
FCB156	N	15	N	1,000	100	N	15	N	100
FCB157	N	10	N	1,000	200	N	15	N	100
FCB158	N	7	N	500	100	N	15	N	100
FCB159	N	30	N	1,000	200	N	20	N	100
FCB160	N	10	N	700	150	N	15	N	100
FCB161	N	10	N	1,000	200	N	15	N	100
FCB162	N	7	N	1,500	100	N	15	N	150
FCB163	N	10	N	2,000	150	N	<10	N	150
FCB164	N	20	N	1,500	200	N	20	N	100
FCB165	N	20	N	1,500	200	N	20	N	100
FCB166	N	10	N	1,500	150	N	30	N	100
FCB167	N	10	N	1,000	50	N	<10	N	500
FCB168	N	15	N	1,000	200	N	20	N	100
FCB169	N	15	N	5,000	200	N	<10	N	100
FCB170	N	7	N	200	150	N	10	N	200
FCB171	N	15	N	1,500	200	N	20	N	100
FCB172	N	10	N	1,000	150	N	15	N	100
FCB173	N	10	N	1,000	150	N	20	N	150
FCB174	N	20	N	700	200	N	20	N	100
FCB175	N	N	N	150	20	N	N	N	70
FCB176	N	20	N	100	200	N	10	N	100
FCB177	N	N	N	N	10	N	N	N	10
FCB178	N	7	N	3,000	150	N	<10	N	150
FCB179	N	7	N	1,500	100	N	10	N	150
FCB180	N	<5	N	N	10	N	N	N	100
FCB181	N	30	N	2,000	500	N	100	N	200
FCB182	N	10	N	200	50	N	15	N	300
FCB183	500	7	20	2,000	150	N	<10	N	100
FCB184	N	5	N	100	30	N	<10	N	200
FCB185	500	7	N	500	50	N	<10	N	70
FCB186	N	20	N	700	200	N	15	N	70
FCB187	N	20	N	1,500	200	N	20	N	200
FCB188	N	N	N	N	10	N	N	N	200
FCB189	N	N	N	<100	10	N	10	N	70
FCB190A	N	10	N	200	200	N	10	N	100
FCB190B	5,000	7	N	700	100	N	10	N	100
FCB191	N	N	N	200	10	N	10	N	50
FCB192	N	10	N	3,000	200	N	15	1,500	150
FCB193	100	N	N	N	10	N	N	N	50
FCB194	N	N	N	N	200	N	<10	N	70
FCB195	N	20	N	1,000	100	N	10	N	100
FCB196	N	15	N	500	150	N	15	N	100
FCB197	N	15	N	N	200	N	15	N	150

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	LATITUDE	LONGITUDE	S-FEX	S-MGX	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-B
FCB198	38 40 8	119 41 27	2.00	1.50	.10	.50	700	<.5	N	50
FCB199	38 40 15	119 41 27	3.00	1.50	2.00	.50	1,000	N	N	30
FCB200	38 40 27	119 41 20	1.00	.15	.05	.30	50	.5	N	50
FCB201	38 40 35	119 41 10	.70	.20	<.05	.50	50	N	N	30
FCB202	38 40 43	119 41 15	3.00	1.00	2.00	.50	1,000	N	N	15
FCB203	38 40 50	119 41 17	2.00	2.00	1.50	.50	700	N	N	10
FCB204	38 40 53	119 41 22	.70	.10	.07	.50	70	1.5	N	30
FCB205	38 41 0	119 41 18	2.00	1.00	1.50	.30	1,000	N	N	<10
FCB206	38 41 12	119 41 14	2.00	1.00	1.50	.50	1,000	N	N	20
FCB207	38 41 4	119 41 0	3.00	2.00	2.00	.50	1,000	.5	N	15
FCB208	38 41 7	119 40 43	3.00	.30	2.00	.50	1,000	N	N	20
FCB209	38 40 55	119 40 29	3.00	1.00	2.00	.50	500	N	N	10
FCB210	38 40 40	119 40 20	3.00	1.50	2.00	.50	1,000	N	N	15
FCB211	38 40 33	119 40 35	2.00	2.00	1.50	.50	700	N	N	<10
FCB212	38 40 35	119 40 42	3.00	5.00	.50	.50	100	N	N	<10
FCB213	38 40 35	119 40 52	3.00	1.00	1.00	.50	1,500	N	N	10
FCB214	38 34 38	119 43 17	3.00	1.50	1.50	.50	500	N	N	10
FCB215	38 35 15	119 43 20	3.00	1.00	1.50	.50	500	N	N	10
FCB216	38 34 45	119 44 7	2.00	1.00	2.00	.50	200	N	N	10
FCB217	38 34 40	119 44 14	1.00	.20	1.00	.20	500	N	N	20
FCB218	38 34 30	119 44 21	.50	.15	.70	.20	200	N	N	20
FCB219	38 34 45	119 44 25	1.00	.10	1.00	.20	100	<.5	N	10
FCB220	38 34 53	119 44 37	.50	.05	1.00	.20	70	2.0	N	30
FCB221	38 35 12	119 44 40	3.00	1.00	2.00	.50	500	5.0	N	10
FCB222	38 35 34	119 44 5	3.00	1.00	2.00	.70	700	N	N	10
FCB223	38 36 10	119 43 55	2.00	.70	1.50	.50	500	1.0	N	10
FCB224	38 37 0	119 46 35	1.00	.20	.07	.30	50	3.0	300	10
FCB225	38 36 31	119 46 48	2.00	1.00	1.50	.50	500	N	N	10
FCB226A	38 37 15	119 46 45	2.00	.20	1.00	.50	300	3.0	2,000	15
FCB226B	38 37 15	119 46 45	3.00	1.50	.30	.30	2,000	N	N	10
FCB226C	38 37 15	119 46 45	.70	.10	.05	.10	30	2.0	200	15
FCB227A	38 37 20	119 46 55	2.00	.02	.05	.50	30	500.0	7,000	10
FCB227B	38 37 20	119 46 55	3.00	1.50	2.00	.50	1,000	N	N	10
FCB227C	38 37 20	119 46 55	2.00	.02	.05	.30	20	3.0	500	<10
FCB228A	38 37 26	119 46 56	1.50	.30	1.00	.50	200	15.0	500	20
FCB228B	38 37 26	119 46 56	1.50	.70	1.50	.50	500	N	N	20
FCB228C	38 37 26	119 46 56	2.00	.02	<.05	.30	20	300.0	7,000	<10
FCB229A	38 37 10	119 46 28	2.00	.30	.07	.20	700	.5	N	10
FCB229B	38 37 10	119 46 28	2.00	1.00	3.00	.50	1,000	N	N	15
FCB230	38 37 9	119 46 15	1.50	.50	2.00	.50	150	N	N	20
FCB231	38 36 57	119 46 6	2.00	.70	1.50	.50	500	N	N	10
FCB232	38 36 53	119 45 56	.70	.30	1.50	.30	300	N	N	10
FCB233	38 36 40	119 45 58	.70	.20	.07	.20	70	<.5	N	15
FCB234	38 36 10	119 44 50	3.00	1.00	3.00	.50	2,000	N	N	10
FCB235A	38 35 47	119 45 17	1.50	.50	.10	.50	300	10.0	N	10

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB198	700	<1.0	N	5	100	50	30	N	7	30
FCB199	1,000	1.0	N	20	50	<5	20	N	15	20
FCB200	1,000	1.0	N	<5	20	100	50	7	5	70
FCB201	1,000	<1.0	N	<5	N	10	70	5	<5	20
FCB202	500	<1.0	N	20	50	50	20	<5	15	30
FCB203	700	<1.0	N	30	150	<5	30	N	50	15
FCB204	200	<1.0	N	<5	50	10	20	<5	5	20
FCB205	500	<1.0	N	20	20	<5	50	N	20	10
FCB206	1,000	1.0	N	20	10	<5	20	N	10	15
FCB207	1,000	<1.0	N	50	20	20	30	N	15	15
FCB208	1,000	<1.0	N	30	100	30	30	N	30	20
FCB209	500	1.0	N	30	10	30	20	N	10	20
FCB210	1,500	<1.0	N	30	30	15	30	N	15	20
FCB211	700	1.0	N	30	70	50	30	N	50	20
FCB212	1,000	<1.0	N	10	15	20	20	N	20	<10
FCB213	700	<1.0	N	20	70	100	30	N	50	10
FCB214	1,500	1.0	N	20	70	20	70	<5	50	15
FCB215	1,000	1.0	N	20	N	20	50	N	15	20
FCB216	1,000	1.0	N	20	300	50	30	N	70	20
FCB217	1,000	1.5	N	5	N	<5	70	<5	<5	50
FCB218	1,000	1.5	N	5	N	<5	100	N	5	50
FCB219	1,000	1.0	N	N	N	<5	70	N	<5	30
FCB220	1,000	1.5	N	N	<10	5	50	N	<5	30
FCB221	1,000	1.0	N	20	30	15	50	5	20	30
FCB222	1,000	<1.0	N	30	70	30	50	<5	30	15
FCB223	1,500	1.0	N	30	20	30	100	N	20	30
FCB224	500	1.0	N	<5	50	<5	30	10	<5	20
FCB225	1,500	1.0	N	20	20	20	50	N	20	20
FCB226A	200	1.0	N	20	50	30	50	N	20	20
FCB226B	700	<1.0	N	50	50	70	30	N	20	20
FCB226C	150	<1.0	N	10	50	15	30	N	5	15
FCB227A	100	<1.0	N	20	70	30	50	120	20	20
FCB227B	700	<1.0	N	30	70	20	30	N	50	15
FCB227C	100	<1.0	N	20	30	15	30	7	20	20
FCB228A	500	1.0	N	15	30	20	30	7	10	15
FCB228B	300	1.0	N	15	30	20	50	N	20	20
FCB228C	50	<1.0	N	15	30	50	50	7	10	50
FCB229A	1,000	<1.0	N	15	15	20	30	<5	15	20
FCB229B	1,500	1.0	N	20	30	20	20	N	15	20
FCB230	1,000	1.0	N	10	10	10	50	N	5	20
FCB231	1,000	1.0	N	15	20	20	30	N	30	20
FCB232	200	1.0	N	7	<10	10	50	N	5	50
FCB233	700	1.0	N	<5	N	7	30	N	<5	20
FCB234	500	<1.0	N	30	50	30	70	N	30	20
FCB235A	200	<1.0	N	15	20	20	30	150	15	100

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FCB198	N	30	N	100	150	N	15	N	70
FCB199	N	30	N	1,000	200	N	20	<200	70
FCB200	N	10	N	N	100	N	<10	N	100
FCB201	N	15	N	200	100	N	10	N	100
FCB202	N	20	N	1,000	150	N	15	200	100
FCB203	N	20	N	500	100	N	15	N	70
FCB204	N	20	N	500	150	N	15	N	100
FCB205	N	30	N	700	100	N	20	N	100
FCB206	N	15	N	300	150	N	15	N	100
FCB207	N	30	N	700	100	N	20	<200	100
FCB208	N	30	N	500	150	N	15	N	70
FCB209	N	20	N	700	150	N	20	N	100
FCB210	N	20	N	700	200	N	20	N	70
FCB211	N	20	N	500	100	N	10	N	70
FCB212	N	7	N	500	100	N	10	N	50
FCB213	N	30	N	500	200	N	15	<200	70
FCB214	N	15	N	700	100	N	20	N	100
FCB215	N	30	N	700	200	N	20	N	70
FCB216	N	30	N	700	200	N	10	N	100
FCB217	N	5	N	500	30	N	10	N	70
FCB218	N	5	N	300	30	N	<10	N	70
FCB219	N	5	N	500	50	N	10	N	70
FCB220	N	5	N	500	50	N	10	N	100
FCB221	N	20	N	1,000	150	N	20	N	100
FCB222	N	30	N	700	150	N	20	N	100
FCB223	N	15	N	1,000	100	<50	15	N	50
FCB224	N	20	N	100	200	<50	<10	N	50
FCB225	N	20	N	700	150	N	20	N	70
FCB226A	N	30	N	200	200	N	15	N	70
FCB226B	N	50	N	<100	150	N	15	N	50
FCB226C	N	10	N	100	150	N	<10	N	20
FCB227A	500	20	N	100	200	<50	15	N	50
FCB227B	N	30	N	500	200	N	20	N	70
FCB227C	N	15	N	100	150	N	10	N	30
FCB228A	N	15	N	300	100	N	10	N	100
FCB228B	N	20	N	500	100	N	15	N	70
FCB228C	700	10	N	150	100	N	15	N	70
FCB229A	N	15	N	<100	100	N	10	1,000	30
FCB229B	N	20	N	500	150	N	15	N	70
FCB230	N	15	N	700	70	N	15	N	100
FCB231	N	15	N	1,000	100	N	15	N	70
FCB232	N	5	N	700	70	N	10	N	70
FCB233	N	5	N	<100	50	N	<10	N	100
FCB234	N	30	N	1,000	150	N	20	N	70
FCB235A	N	15	N	100	100	N	10	N	70

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	LATITUDE	LONGITUDE	S-FEX	S-MG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-B
FCB235B	38 35 47	119 45 17	3.00	1.50	2.00	.50	2,000	N	N	10
FCB235C	38 35 47	119 45 17	.50	.15	<.05	.15	100	10.0	N	N
FCB236	38 39 58	119 40 13	2.00	1.00	2.00	.50	500	N	N	<10
FCB237	38 40 3	119 40 28	.15	.10	.05	.30	20	5.0	N	15
FCB238	38 40 5	119 40 45	2.00	1.00	1.50	.50	500	<.5	N	10
FCB239	38 40 2	119 40 54	3.00	1.00	1.50	.50	500	N	N	15
FCB240	38 40 5	119 41 0	1.50	.10	.05	.20	70	5.0	N	20
FCB241A	38 39 57	119 41 2	2.00	.20	.50	.20	500	7.0	300	30
FCB241B	38 39 57	119 41 2	1.50	1.00	5.00	.20	1,000	N	N	10
FCB242	38 39 58	119 41 17	2.00	.30	1.50	.30	500	N	N	30
FCB243	38 36 56	119 41 42	2.00	.70	1.50	.50	500	N	N	10
FCB244	38 37 24	119 41 23	2.00	1.00	1.50	.50	300	N	N	<10
FCB245	38 37 44	119 40 52	2.00	.70	1.50	.50	500	N	N	10
FCB246	38 37 29	119 40 18	2.00	1.00	2.00	.50	1,000	N	N	<10
FCB247	38 36 55	119 41 3	1.00	.15	.20	.50	100	1.5	N	50
FCB248	38 36 20	119 41 50	2.00	.70	1.50	.50	500	N	N	<10
FCB249	38 37 2	119 42 42	3.00	1.50	2.00	.50	500	N	N	20
FCB250	38 39 5	119 39 46	2.00	.70	1.50	.50	300	N	N	10
FCB251	38 38 26	119 39 27	2.00	1.00	1.50	.50	700	N	N	15
FCB253	38 39 28	119 39 52	1.50	.50	1.00	.30	150	.5	N	<10
FCB254	38 39 24	119 40 30	2.00	1.50	1.00	.50	700	N	N	10
FCB255	38 39 35	119 40 47	2.00	.50	1.50	.50	1,000	N	N	30
FCB256A	38 39 45	119 41 10	1.50	.50	1.00	.20	700	5.0	300	15
FCB256B	38 39 45	119 41 10	3.00	1.50	2.00	.50	1,000	N	N	10
FCB258	38 39 58	119 41 46	1.50	.70	.30	.50	500	N	N	30
FCB259	38 40 0	119 42 7	.10	.07	.05	.07	300	5.0	N	<10
FCB260	38 39 51	119 42 10	.10	.05	<.05	.05	70	N	N	10
FCB261	38 39 47	119 42 40	3.00	1.50	1.50	.50	1,000	N	N	10
FCB262	38 39 22	119 43 15	.30	.10	.30	.10	300	N	N	15
FCB263	38 36 48	119 45 15	3.00	2.00	1.50	.50	700	N	N	10
FCB264	38 37 19	119 43 13	2.00	1.00	1.50	.50	500	N	N	10

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-BA	S-BE	S-BI	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB
FCB235B	1,000	<1.0	N	50	70	100	50	N	30	10
FCB235C	70	<1.0	N	<5	10	<5	50	150	<5	30
FCB236	700	1.0	N	20	10	30	50	N	5	15
FCB237	200	<1.0	N	<5	50	7	50	20	<5	100
FCB238	1,000	1.0	N	20	70	50	50	<5	50	30
FCB239	500	<1.0	N	50	100	15	50	N	50	20
FCB240	500	<1.0	N	5	50	20	50	50	<5	50
FCB241A	700	<1.0	N	50	20	20	<20	<5	20	50
FCB241B	150	<1.0	N	20	100	70	50	N	30	70
FCB242	1,000	1.0	N	10	N	150	50	N	5	20
FCB243	1,000	<1.0	N	20	10	7	50	<5	7	10
FCB244	700	<1.0	N	15	70	10	50	N	30	15
FCB245	700	1.0	N	30	100	30	30	N	50	20
FCB246	1,000	<1.0	N	30	100	30	50	N	20	20
FCB247	1,500	<1.0	N	10	N	20	50	N	10	10
FCB248	500	<1.0	N	15	N	10	50	N	10	10
FCB249	1,500	<1.0	N	20	20	15	50	N	10	30
FCB250	1,500	1.0	N	20	50	20	70	N	30	30
FCB251	1,500	1.0	N	20	30	20	50	N	15	20
FCB253	500	<1.0	N	20	100	30	50	N	50	15
FCB254	500	<1.0	N	20	20	20	30	N	10	20
FCB255	700	1.0	N	20	50	5	30	N	15	15
FCB256A	300	<1.0	N	30	150	20	50	7	50	70
FCB256B	200	<1.0	N	30	200	<5	50	N	30	20
FCB258	500	<1.0	N	15	20	5	50	<5	15	50
FCB259	700	1.0	N	<5	N	<5	30	N	5	15
FCB260	1,500	1.5	N	N	10	<5	30	20	N	20
FCB261	1,000	<1.0	N	20	10	30	50	N	7	20
FCB262	1,500	1.5	N	N	N	<5	50	N	5	50
FCB263	1,500	<1.0	N	30	50	70	70	N	15	20
FCB264	700	<1.0	N	20	15	20	50	N	20	20

Table 2.--Data for Rock Samples, East-central Alpine County, California--continued

sample	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FCB235B	N	20	N	200	200	N	15	N	70
FCB235C	N	7	N	N	50	N	10	N	100
FCB236	N	20	N	700	150	N	15	N	100
FCB237	N	10	N	<100	100	N	<10	N	70
FCB238	N	20	N	700	150	N	15	N	70
FCB239	N	30	N	500	150	N	15	N	50
FCB240	N	10	N	<100	100	N	<10	N	50
FCB241A	<100	5	N	100	70	70	10	300	70
FCB241B	N	20	N	300	100	N	15	N	30
FCB242	N	5	N	500	70	N	10	N	100
FCB243	N	15	N	700	100	N	15	N	100
FCB244	N	15	N	1,000	100	N	15	N	70
FCB245	N	20	N	1,000	150	N	10	N	100
FCB246	N	20	N	1,000	150	N	20	N	70
FCB247	N	7	N	200	100	N	10	N	100
FCB248	N	10	N	1,000	100	N	15	N	150
FCB249	N	30	N	700	150	N	20	N	70
FCB250	N	20	N	1,000	100	N	15	N	70
FCB251	N	15	N	1,000	100	N	15	N	100
FCB253	N	15	N	500	70	N	15	N	30
FCB254	N	20	N	1,000	150	N	15	N	70
FCB255	N	20	N	100	200	N	15	N	70
FCB256A	N	20	N	200	100	N	15	N	30
FCB256B	N	30	N	300	150	N	15	N	70
FCB258	N	20	N	100	100	N	15	N	100
FCB259	N	<5	N	300	10	N	10	N	30
FCB260	N	N	N	N	20	N	10	N	50
FCB261	N	20	N	700	150	N	15	N	70
FCB262	N	<5	N	200	10	N	10	N	70
FCB263	N	20	N	1,000	150	N	20	N	70
FCB264	N	20	N	700	150	N	15	N	100

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