STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
DONALD A. HULL, STATE GEOLOGIST

SAMPLE LOCATION MAP OF THE ELKHORN PEAK QUADRANGLE, BAKER COUNTY, OREGON

1987

GMS-41

Geology and Mineral Resources Map of the Elkhorn Peak Quadrangle, Baker County, Oregon
By M.L. Ferns and others

Plate 2

Funded in part by the USDA Forest Service and the U.S. Geological Survey (COGEOMAP)

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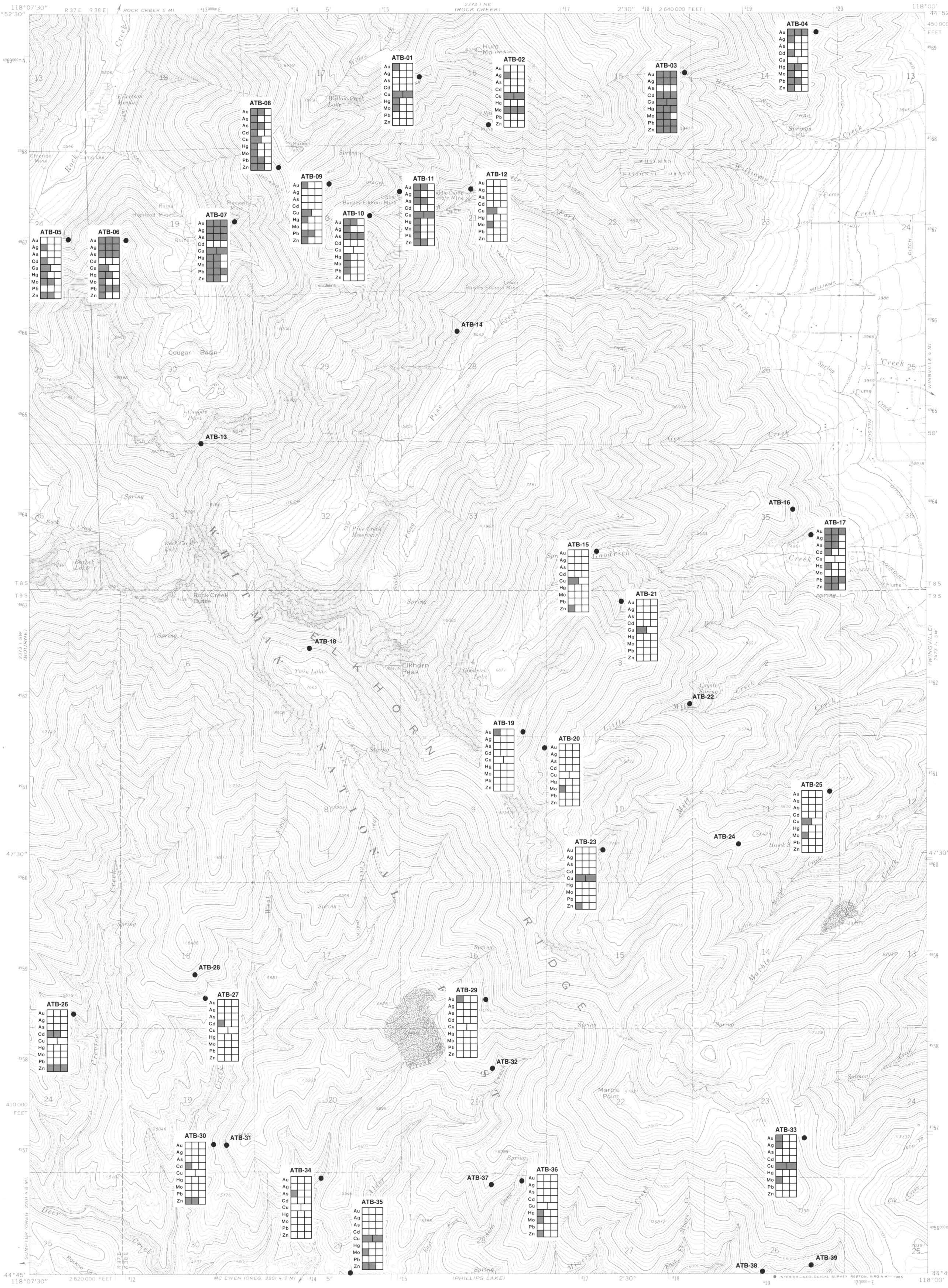
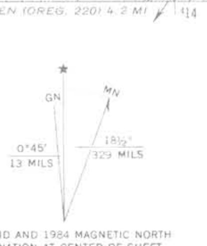


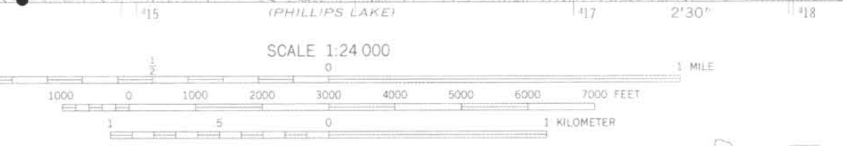
Base map by U.S. Geological Survey
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1971. Field checked 1972

Projection and 10,000-foot grid ticks: Oregon coordinate system, north zone (Lambert conformal conic)
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue. 1927 North American datum
To place on the predicted North American Datum 1983 move the projection lines 17 meters north and 81 meters east as shown by dashed corner ticks



UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

Au: ≥1 ppm; ≥0.1 - <1 ppm; 0.01 - <0.1 ppm
Ag: ≥100 ppm; ≥10 - <100 ppm; 1 - <10 ppm
As: ≥1,000 ppm; ≥100 - <1,000 ppm; 50 - <100 ppm
Cd: ≥100 ppm; ≥10 - <100 ppm; 1 - <10 ppm
Cu: ≥100 ppm; 50 - <100 ppm
Hg: ≥10 ppm; ≥1 - <10 ppm; 0.1 - <1 ppm
Mo: ≥100 ppm; ≥10 - <100 ppm; 1 - <10 ppm
Pb: ≥1,000 ppm; ≥100 - <1,000 ppm; 50 - <100 ppm
Zn: ≥1,000 ppm; ≥100 - <1,000 ppm; 50 - <100 ppm

SAMPLING AND ANALYTICAL PROCEDURES

Dumps, prospect pits, and mineralized outcrops were selectively sampled during geologic mapping. Samples marked by an asterisk are visually selected high-grade material taken from dumps on the premise that such material represents the targeted mineralization. The other samples were collected by random grab of material, including float. Time constraints did not permit the systematic collection of truly representative samples. Properties about which there is little or no published information were sampled in preference to currently active mines and well-known formerly productive properties.

Chemex Labs Ltd. (North Vancouver, B.C., Canada) crushed and ground the samples and provided the data reported on Table 4. Gold was determined by fire assay/atomic absorption (AA) (10-g sample with final volume of 5 ml). Mercury was determined by cold vapor AA (1-g sample treated with HNO_3 and then HCl and made to a final volume of 100 ml). The other elements were determined as follows: 0.5-g sample was digested with HNO_3 + HCl (3:1), made to final volume of 25 ml, and analyzed by induction-coupled plasma (ICP) emission spectrometry. The acids employed yielded partial rather than total metals concentrations because of incomplete digestion. In particular, the values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W, and V are semiquantitative. The values for the remaining 14 elements — Ag, As, Bi, Cd, Co, Cu, Fe, Mn, Mo, Ni, P, Pb, U, and Zn — are essentially quantitative (per Chemex).

Quality-control check analyses were provided by Barringer Laboratories (Sparks, Nevada). Gold was determined by fire assay/AA (30-g sample in 5 ml). Mercury was determined by cold vapor AA (0.25-g sample, aqua regia digestion). The other elements were determined by AA after digestion of a 2-g sample in aqua regia (HNO_3 + HCl, 1:3); final volume was 20 ml.

Table 2. CHEMICAL ANALYSES OF ROCK SAMPLES*

Map letter, Plate 1	Geologic unit	Locality 1/4	Sec.	T.(S.)	R.(E.)	Rock type	SiO_2	Al_2O_3	TiO_2	FeO	Fe_2O_3	MnO	CaO	MgO	K_2O	Na_2O	P_2O_5
A.	TRPi	SW	30	8	38	Metadiorite	58.62	19.99	0.93	3.20	3.67	0.10	4.88	2.87	0.79	4.72	0.24
B.	TRPmv	NW	28	8	38	Amphibolite	49.47	16.53	1.69	5.03	5.77	0.18	12.30	6.49	0.06	2.30	0.17
C.	TRPmv	NW	33	8	38	Meta-andesite	57.09	18.57	1.01	3.67	4.21	0.13	6.25	3.96	1.74	3.22	0.16
D.	TRPmv	NE	33	8	38	Greenstone (cataclasite)	49.41	18.15	1.18	4.98	5.70	0.17	11.31	6.48	0.14	2.29	0.19
E.	TRPi	NW	1	9	38	Metadiorite	55.62	15.09	0.70	4.41	5.06	0.18	7.93	7.29	0.49	3.16	0.07
F.	TRPmv	NE	10	9	38	Greenstone (cataclasite)	51.64	14.10	1.66	5.45	6.24	0.18	10.43	7.42	0.02	2.68	0.18
G.	TRPmv	NW	19	9	38	Metabasalt	54.93	14.13	0.96	4.62	5.29	0.17	10.59	6.56	0.04	2.60	0.10
H.	TRPmv	SW	22	9	38	Metabasalt	53.16	17.46	1.15	4.55	5.21	0.19	9.33	4.43	0.00	4.31	0.21
I.	TRPmv	C	23	9	38	Metabasalt	50.07	18.13	1.21	4.97	5.69	0.15	9.92	4.24	1.56	3.36	0.70
J.	TRPi	NE	26	9	38	Albite	73.95	13.79	0.61	1.72	1.97	0.07	2.56	0.65	0.10	4.48	0.11

*Analyses by X-ray fluorescence at Washington State University under the direction of Peter Hooper.
Analyses are normalized on a volatile-free basis, and total Fe is expressed as Fe_2O_3/FeO at an arbitrarily fixed ratio.
All numbers are in weight percent.

Table 3. FOSSIL LOCATIONS

Map letter, Plate 1	Geologic unit	Locality 1/4	Sec.	T.(S.)	R.(E.)	Host lithology	Fauna	Age	Identification	Source
a.	TRPmv	SW	34	8	38	Bedded limestone	Conodonts	Late Triassic (early Norian)	Epigondolella abneptis subsp. B of Orchard; Xaniognathus sp.	Wardlaw, written communication, 1986
b.	TRPer	NW	4	9	38	Chert float	Radiolaria	Late Triassic (Karnian)	?Corum sp.; Pseudostylosphaera sp.; Triassocampe sp.	Blome, written communication, 1986
c.	ls	SE	13	9	37	Limestone block	Fusulinids	Permian	Schwagerina sp.	Nestell, personal communication, 1986
d.	TRPer	SE	15	9	38	Chert float	Radiolaria	Paleozoic (Pennsylvanian-Permian)	?Pseudoalbaillella sp.	Blome, written communication, 1986
e.	TRPer	SW	14	9	38	Bedded chert	Radiolaria	Late Triassic (late Karnian-middle Norian)	Capnodoce sp.; ?Corum sp.; Renzium sp. cf. R. webergorum Blome	Blome, written communication, 1986
f.	TRPer	SW	14	9	38	Bedded chert	Radiolaria	Late Triassic (late Karnian-middle Norian)	Betraccium(?) incohatum Blome; ?Canoptum sp.; Triassocampe sp.	Blome, written communication, 1986
	TRPer	SW	14	9	38	Bedded chert	Radiolaria	Late Triassic (Karnian or Norian)	Canoptum sp.; Sarla sp.	Blome, written communication, 1986
	TRPer	SW	14	9	38	Bedded chert	Radiolaria	Late Triassic?	?Xipha sp.	Blome, written communication, 1986
g.	ls	NE	14	9	38	Limestone pod	Fusulinids	Permian (Guadalupian)	Chusenella sp.; Neoschwagerina sp.; Pseudodoliolina sp.; Yabeina sp.	Nestell, 1983 Coward, 1983
h.	ls	NW	28	9	38	Limestone pod	Fusulinids	Permian	Schwagerina sp.	Nestell, verbal communication, 1986
i.	TRPer	NW	28	9	38	Chert slump block	Radiolaria	Mesozoic (Triassic?)	?Pseudostylosphaera sp.	Blome, written communication, 1986

Table 4. ANALYSES OF ROCK CHIP SAMPLES*

Sample number	Au (ppb)	Hg (ppb)	Al (%)	Ag (ppm)	As (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Co (ppm)	Cr (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)
ATB-01	40	140	1.06	0.2	<10	50	<0.5	<2	0.23	<0.5	13	218	491	4.20	<10
ATB-02**	<5	50	0.24	2.6	20	20	<0.5	32	0.04	0.5	24	68	118	7.72	<10
ATB-03**	>10,000	63,000	0.07	>200.0	30	40	<0.5	28	6.24	>99.9	11	45	292	3.53	10
ATB-04**	1,050	1,400	0.03	4.4	10	<10	<0.5	2	9.00	7.0	1	159	16	0.47	20
ATB-05	<5	350	1.21	1.0	10	410	<0.5	<2	1.71	2.5	15	73	94	3.80	10
ATB-06	2,750	9,000	0.12	>200.0	1,300	140	<0.5	<2	0.05	<0.5	1	103	89	2.90	<10
ATB-07**	3,600	4,400	0.20	130.0	9,120	40	<0.5	22	0.02	<0.5	3	45	901	11.77	<10
ATB-08**	560	530	0.20	5.4	150	30	<0.5	<2	0.04	1.0	8	54	61	3.66	<10
ATB-09**	20	100	1.98	0.8	40	50	<0.5	2	0.28	<0.5	15	160	74	4.26	<10
ATB-10	320	130	0.60	1.6	1,250	20	<0.5	<2	0.17	<0.5	14	132	39	6.11	<10
ATB-11**	165	290	0.34	7.8	370	10	<0.5	4	0.02	0.5	10	237	196	4.62	<10
ATB-12**	<5	90	0.60	0.4	10	130	<0.5	2	0.24	<0.5	5	137	57	1.40	<10
ATB-13**	<5	60	0.46	0.2	20	<10	<0.5	<2	4.50	<0.5	24	486	16	1.55	10
ATB-14**	<5	50	0.40	0.2	<10	<10	<0.5	2	0.08	<0.5	5	296	7	0.79	<10
ATB-15	<5	50	2.06	0.4	10	90	<0.5	<2	0.60	<0.5	18	38	97	5.46	<10
ATB-16**	<5	50	0.69	0.2	30	10	<0.5	<2	0.10	<0.5	6	108	6	1.63	<10
ATB-17**	>10,000	340	0.96	96.0	110	<10	<0.5	10	4.00	1.5	16	403	15	2.13	10
ATB-18	<5	70	0.25	0.2	<10	20	<0.5	<2	0.01	<0.5	2	38	20	0.76	<10
ATB-19	40	60	0.28	0.4	<10	20	<0.5	2	<0.01	<0.5	1	37	10	0.67	<10
ATB-20	<5	60	0.28	0.2	<10	30	<0.5	<2	0.02	<0.5	2	43	18	1.71	<10
ATB-21	<5	50	1.36	0.4	<10	110	<0.5	<2	0.26	<0.5	6	80	69	4.84	<10
ATB-22	<5	50	0.96	0.4	10	40	<0.5	<2	0.14	<0.5	12	72	33	4.70	<10
ATB-23	<5	80	1.45	0.4	<10	350	<0.5	<2	<0.01	0.5	4	43	332	11.49	<10
ATB-24**	<5	60	0.38	0.2	10	100	<0.5	<2	0.01	<0.5	2	191	35	1.28	<10
ATB-25	<5	50	1.09	0.4	10	60	<0.5	<2	0.01	<0.5	5	122	61	1.74	<10
ATB-26	<5	60	0.54	0.6	<10	110	<0.5	<2	0.17	52.5	221	33	27	34.67	<10
ATB-27	<5	40	0.29	0.4	20	100	<0.5	<2	22.30	1.5	8	3	7	0.41	40
ATB-28	<5	40	0.45	0.2	<10	50	<0.5	2	0.06	<0.5	7	28	24	1.46	<10
ATB-29	10	50	0.84	0.6	10	50	<0.5	<2	0.12	<0.5	8	76	28	2.03	<10
ATB-30	<5	60	0.22	0.2	<10	90	<0.5	<2	0.14	4.5	14	86	18	38.33	<10
ATB-31	<5	30	0.01	0.6	20	100	<0.5	8	30.22	0.5	2	<1	9	0.12	60
ATB-32	<5	40	0.12	0.2	<10	20	<0.5	<2	0.18	<0.5	1	34	13	0.65	<10
ATB-33	65	80	0.12	1.0	<10	10	<0.5	<2	0.10	<0.5	7	71	730	2.63	<10
ATB-34**	<5	40	0.65	0.4	60	10	<0.5	2	0.03	<0.5	29	766	26	1.66	<10
ATB-35**	<5	50	0.81	0.6	10	220	<0.5	<2	0.02	0.5	15	116	133	6.71	<10
ATB-36	<5	210	0.29	0.4	<10	40	<0.5	<2	0.02	0.5	3	33	44	5.38	<10
ATB-37**	<5	50	0.33	0.2	10	40	<0.5	2	2.77	<0.5	5	20	18	0.95	10
ATB-38**	<5	40	0.41	0.4	10	30	<0.5	4	23.35	0.5	4	17	41	0.81	40
ATB-39	<5	40	1.12	0.4	<10	30	<0.5	<2	0.24	<0.5	4	22	7	2.51	<10

Sample number	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	Sb (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	Field number
ATB-01	0.02	<10	0.39	174	4	0.04	25	690	2	<10	79	0.08	<10	<10	118	<10	20	EP-155
ATB-02**	0.03	<10	0.06	40	796	<0.01	7	440	6	<10	9	<0.01	<10	<10	112	<10	20	EP-157
ATB-03**	0.02	<10	0.02	425	22	<0.01	6	230	>9,999	50	<1	<0.01	<10	<10	1	<10	>9,999	B-237
ATB-04**	<0.01	<10	0.01	729	4	<0.01	3	20	100	<10	<1	<0.01	<10	<10	2	<10	70	B-243
ATB-05	0.48	20	1.47	1,002	16	0.01	47	510	34	<10	88	0.02	<10	<10	86	<10	140	EP-177
ATB-06	0.07	<10	0.01	32	7	<0.01	2	140	1,546	380	12	<0.01	<10	<10	68	<10	60	EP-151
ATB-07**	0.19	<10	0.03	28	29	<0.01	1	410	>9,999	460	3	<0.01	<10	<10	15	<10	470	DA-11
ATB-08**	0.18	<10	0.02	132	5	<0.01	10	460	178	<10	5	<0.01	<10	<10	35	<10	200	DA-02
ATB-09**	0.06	<10	0.96	1,221	<1	0.03	43	520	110	<10	26	0.01	<10	<10	72	<10	70	EP-131
ATB-10	0.34	<10	0.13	125	4	<0.01	27	810	62	<10	3	<0.01	<10	<10	30	<10	40	EP-110
ATB-11**	0.08	<10	0.03	249	6	<0.01	13	390	60	10	2	<0.01	<10	<10	21	<10	250	EP-112
ATB-12**	0.13	<10	0.22	184	3	0.05	20	280	10	<10	50	0.08	<10	<10	27	<10	10	EP-113
ATB-13**	<0.01	<10	2.72	496	<1	<0.01	413	100	16	<10	52	<0.01	<10	<10	17	<10	<10	EP-114
ATB-14**	<0.01	<10	0.47	174	<1	0.01	22	140	8	<10	1	0.02	<10	<10	15	<10	<10	EP-108
ATB-15	0.16	10	1.82	653	<1	0.02	13	930	12	<10	13	0.29	<10	<10	172	<10	80	B-53
ATB-16**	0.01	<10	0.66	260	<1	<0.01	46	350	14	<10	6	<0.01	<10	<10	18	<10	10	EP-84
ATB-17**	<0.01	<10	1.52	558	<1	<0.01	196	220	3,716	<10	4	<0.01	<10	<10	38	<10	310	EP-80
ATB-18	0.09	10	0.14	33	<1	<0.01	7	160	22	<10	4	<0.01	<10	<10	3	<10	10	B-75
ATB-19	0.05	<10	0.11	36	<1	<0.01	4	120	14	<10	2	<0.01	<10	<10	2	<10	<10	B-59
ATB-20	0.06	10	0.12	47	3	<0.01	8	440	12	<10	4	<0.01	<10	<10	3	<10	10	B-64
ATB-21	0.27	<10	0.85	549	<1	0.05	10	720	8	<10	30	0.33	<10	<10	68	<10	30	EP-98
ATB-22	0.26	<10	0.66	247	1	0.04	7	430	12	<10	9	0.26	<10	<10	61	<10	10	EP-92
ATB-23	0.38	<10	0.19	53	<1	<0.01	11	540	12	<10	2	0.06	<10	<10	22	<10	70	EP-66
ATB-24**	0.14	10	0.02	28	2	<0.01	13	320	8	<10	18	<0.01	<10	<10	9	<10	30	EP-70
ATB-25	0.27	10	0.26	107	4	<0.01	12	320	10	<10	6	<0.01	<10	<10	19	<10	40	EP-124
ATB-26	0.10	10	0.16	6,354	<1	<0.01	270	2,450	<2	<10	17	<0.01	<10	10	21	<10	3,670	EP-137
ATB-27	0.13	<10	7.39	147	<1	<0.01	8	4,470	6	10	141	<0.01	<10	<10	12	10	40	EP-172
ATB-28	0.11	<10	0.19	220	1	<0.01	11	330	10	<10	1	0.01	<10	<10	9	<10	30	EP-133
ATB-29	0.10	<10	0.66	739	<1	<0.01	23	320	8	<10	4	<0.01	<10	<10	22	<10	30	EP-165
ATB-30	<0.01	<10	0.07	3,054	<1	<0.01	36	>9,999	<2	<10	29	<0.01	<10	<10	23	<10	860	EP-96
ATB-31	<0.01	<10	0.14	19	2	<0.01	3	190	24	10	880	<0.01	<10	<10	4	10	<10	EP-26
ATB-32	0.01	<10	0.03	116	<1	<0.01	4	310	6	<10	12	<0.01	<10	<10	4	<10	10	B-235
ATB-33	0.05	<10	0.01	32	2	<0.01	3	210	10	<10	2	<0.01	<10	<10	26	<10	10	EP-162
ATB-34**	<0.01	<10	1.14	449	<1	<0.01	359	100	12	<10	2	<0.01	<10	<10	26	<10	10	EP-101
ATB-35**	0.10	<10	0.19	515	4	<0.01	12	240	12	<10	4	<0.01	<10	<10	51	<10	110	EP-05
ATB-36	0.13	10	0.04	126	6	<0.01	10	1,240	10	<10	16	<0.01	<10	<10	11	<10	70	EP-29
ATB-37**	0.07	<10	1.08	132	<1	<0.01	8	150	14	<10	8	<0.01	<10	<10	5	<10	10	EP-30
ATB-38**	<0.01	<10	0.04	207	1	<0.01	10	370	14	10	116	0.08	<10	<10	17	<10	20	EP-46
ATB-39	0.07	<10	0.89	361	1	0.01	4	380	8	<10	4	0.12	<10	<10	9	<10	30	EP-48

*See discussion entitled "Sampling and Analytical Procedures" on this plate for explanation of sampling and analytical techniques and indication of which results are semiquantitative and which are quantitative.
**Samples from mines and prospects listed in Table 1, Plate 1.

Table 5. SAMPLE DESCRIPTIONS AND LOCATIONS

Sample no.	Locality 1/4	Sec.	T.(S.)	R.(E.)	Description	Geologic unit
ATB-01	SW	16	8	38	Rusty quartz	TRPer
ATB-02	SE	16	8	38	Rusty quartz	KJbm
ATB-03	NE	15	8	38	Quartz, gouge with pyrite, sphalerite	KJbm
ATB-04	NE	14	8	38	Rusty quartz	KJbm
ATB-05	SE	24	8	37	Carbonaceous gouge with quartz	TRPer
ATB-06	SW	19	8	38	Rusty quartz breccia	TRPer
ATB-07	NE	19	8	38	Rusty quartz	TRPer
ATB-08	NW	20	8	38	Rusty quartz	KJbm
ATB-09	NE	20	8	38	Vuggy quartz	KJbm
ATB-10	NE	20	8	38	Limonitic gouge with quartz, pyrite	TRPer
ATB-11	NE	20	8	38	Vuggy quartz with Mn, Fe oxides	TRPer
ATB-12	NW	21	8	38	Milky quartz	TRPer
ATB-13	SE	30	8	38	Talc, calcite, quartz	TRPi
ATB-14	NW	28	8	38	Milky quartz	TRPer
ATB-15	SW	34	8	38	Disseminated pyrite	TRPmv
ATB-16	NE	35	8	38	Milky quartz	TRPmv
ATB-17	SE	35	8	38	Vuggy quartz with pyrite, galena	TRPmv, TRPi
ATB-18	NW	5	9	38	Limonitic silicified chert	TRPer
ATB-19	SE	4	9	38	Limonitic silicified chert	TRPer
ATB-20	NE	9	9	38	Limonitic silicified chert	TRPer
ATB-21	NE	3	9	38	Limonitic silicified metagabbro	TRPi
ATB-22	SW	2	9	38	Disseminated pyrite in silicified tuff	TRPmv
ATB-23	SW	10	9	38	Limonitic chert breccia	TRPer
ATB-24	SW	11	9	38	Quartz-cemented chert breccia	TRPer
ATB-25	NE	11	9	38	Limonitic chert and argillite	TRPer
ATB-26	SE	13	9	37	Heavy iron oxides	TRPer
ATB-27	SE	18	9	38	Limestone	ls
ATB-28	SE	18	9	38	Limonitic silicified chert	TRPer
ATB-29	SE	15	9	38	Vuggy quartz with Fe, Mn oxides	TRPer
ATB-30	SE	19	9	38	Jasperoid with heavy Fe oxides, chalcedony stringers	TRPer
ATB-31	SE	19	9	38	Limestone	ls
ATB-32	NE	21	9	38	Silicified chert	TRPer
ATB-33	SE	23	9	38	Rusty silicified chloritic tuffs	TRPmv
ATB-34	NW	29	9	38	Milky quartz, talc	TRPer, TRPi
ATB-35	SE	29	9	38	Rusty argillite and gouge	TRPer
ATB-36	NE	28	9	38	Limonitic gouge	TRPer
ATB-37	NE	28	9	38	Limonitic silicified chert	TRPer
ATB-38	SW	26	9	38	Limonitic gouge	d
ATB-39	SW	26	9	38	Limonitic silicified zone	TRPmv

Table 6. QUALITY-CONTROL (QC) DATA

Sample no.	Source of data	Au (ppb)	Hg (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cd (ppm)	Cu (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
ATB-02	Reported	<5	50	2.6	20	32	0.5	118	796	6	<10	20
	QC	11	79	3.0	15	34	<1.0	103	670	11	<1	17
ATB-07	Reported	3,600	4,400	130.0	9,120	22	<0.5	901	29	>9,999	460	470
	QC	3,219	2,214	304.8	12,800	26	4.0	840	36	27,200	390	450
ATB-10	Reported	320	130	1.6	1,250	<2	<0.5	39	4	62	<10	40
	QC	362	125	1.9	1,540	<1	<1.0	30	6	60	1	33
ATB-20	Reported	<5	60	0.2	<10	<2	<0.5	18	3	12	<10	10
	QC	2	21	<0.1	4	<1	<1.0	12	1	8	<1	10
ATB-30	Reported	<5	60	0.2	<10	<2	4.5	18	<1	<2	<10	860
	QC	2	125	<0.1	<2	<1	1.0	5	<1	3	<1	820
ATB-33	Reported	65	80	1.0	<10	<2	<0.5	730	2	10	<10	10
	QC	75	75	0.7	<2	1	<1.0	650	<1	6	<1	7