

TABLE 1. Analyses and descriptions of rock and mineral samples collected at localities shown on figure 1.

ANALYTICAL DATA (PPM). Analyses by B. F. Arbogast, G. W. Day, M. Heard, J. D. Hoffman, J. C. Lucas. Symbols: N(), not detected at limit of detection or at value shown in parentheses; L(), detected, but below limit of determinability, or below value shown in parentheses; H, interference. Looked for but not detected: Bi (except 20 ppm Bi in sample 790G102D), Sb, Sn, Th, M (except 2 ppm in samples 780B185B and E).

Locality Number on Fig. 1	U.S.G.S. Sample Number	Atomic absorption analyses										Semi-quantitative spectrographic analyses														DESCRIPTION	Locality	
		Au	Cu	Pb	Zn	Ag	As	B	Ba	Be	Cd	Co	Cr	Cu	La	Mo	Nb	Ni	Pb	Sc	Sr	V	V	Zn	Zr			
1	798G069C	N(.05)	35	25	L(5)	3	N	30	500	N	N	5	N	50	N	N	N	15	15	5	N	70	10	N	70	Felsic metatuff (phyllitic grit)	Lenses up to 1 m long of massive pyrite, sphalerite, and galena in phyllitic felsic metatuff intercalated with pyritic carbonaceous phyllite, phyllitic siltstone and limestone. Limestone locally contains sparse Upper Triassic fossils. Exposed width of massive-sulfide-bearing zone (in creek bed) is 30-40 m. Lat: 56°40'18"N; Long: 133°15'27"W	
	790G135A		100	13000	120000	100	1000	10	150		500	N	N	100				10	5000	N		30	N	>10000	N	Massive pyrite, sphalerite, galena, arsenopyrite(?)		
	135B		40	4200	20000	15	1000	10	150		150	N	10	50				10	1000	N		30	N	>10000	N	Massive pyrite, sphalerite, galena, arsenopyrite(?)		
2	780B185A	N(.05)	35	15	40	N	N	L	500	2	N	5	20	20	N	L	N	20	5	150	50	50	N	100	Banded porphyritic felsic metatuff(?)	North wall of rock quarry along logging road exposes approx. 10-m thick zone of banded greenish-gray felsic metatuff containing layers up to 1.5 m thick of massive pyrite, pyrrhotite(?), sphalerite, chalcopyrite, and galena. Occurrence forms approx. 10 x 30 m wedge-shaped, locally fault-bounded outcrop enclosed by steeply-dipping Tertiary basalt, diabase, and rhyolite dikes. Lat: 56°22'56"N; Long 132°53'53"W		
	185B		30	25	120			L	200	N		50	100	100	N	N	30	20	30	200	200	30		100	Diabase dike with pyrite			
	185C		20	15	90			L	100	N		10	100	70	N	N	20	10	30	300	200	30		100	Diorite? dike with pyrrhotite.			
	185D		15	15	170			N	300	2		N	N	10	100		20	5	20	N	N	10	70	200	Porphyritic rhyodacite dike(?)			
	185E		20	25	130			10	300	N		50	100	70	N		N	20	20	30	200	200	30		100		Basalt dike	
	185F		20	35	770			L	2000	2		N	L	20	20		N	5	70	N	300	20	100	1000	200		Felsic metatuff(?)	
	185G		850	620	720	15		20	1000	1	70	50	N	700	N	50	N	20	200		N	30	N	>10000	N		Felsic metatuff? with pyrrhotite	
	185H		25	25	380	N		L	150	7	N	N		20	N	7	50	10	20			10	100	500	300		Felsic metatuff? with pyrite	
	790G072A		10	35	190	N		L	70	3	N	L		7	70	5	50	L	20			10	100	N	500		Felsic metatuff with disseminated pyrite	
	072B		30	35	300	N			100	5	N	L		15	70	20	70	L	15			10	100	N	500		Felsic metatuff with disseminated pyrite	
	072C	L(.05)	3000	2500	44000	30			>5000	2	200	20		3000	N	70	N	15	3000		1000	30	30	>10000	20		Felsic metatuff with massive sulfides	
	072D	.55	3900	1700	38000	30			>5000	1	100	15		3000		50		20	3000		1000	30	30	>10000	70		Felsic metatuff with massive sulfides	
	072E	N(.05)	1400	1400	38000	5			5000	1	500	30		1500		15		10	1500		N	30	20	>10000	N		Float sample of banded felsic metatuff with massive sphalerite	
	072F	.05	1000	910	16000	5			>5000	1	70	15		1500		15		10	1500		700	20	N	10000	N		Float sample of banded felsic metatuff with massive sphalerite	
3	798G028A	N(.05)	15	H30	95	.5	N	L	300	N	N	N	70	15	N	N	N	20	10	L	1000	100	10	N	20	Carbonaceous limestone with pyrite	Adit at old prospect (Buddington, 1923, p. 69): layers and lenses as much as 2 m thick of massive pyrite, pyrrhotite(?), sphalerite, chalcopyrite, and galena in felsic metavolcanic rocks interbedded with recrystallized carbonaceous limestone and calcareous sedimentary rocks. Intruded by Tertiary(?) andesite dikes. Lat: 56°25'08"N; Long 132°57'07"W	
	028C		15	5	25	.5	200	L	5000	1		5	N	30				10	20	N	N	20	50	N	200	Felsic metatuff with disseminated pyrite		
	028D		5	15	820	N	200	L	2000	N		5	N	5				5	30	N	N	20	50	300	100	Banded "rhyolite" with disseminated sulfide		
	028E		25	10	80	N	L	20	5000	1		30	100	70				20	20	20	1000	300	30	L	300	"Andesite" dike with disseminated pyrite		
	790G102A	.20	10000	180	4300	20	N	L	>5000	1	15	N	10000	20	50		10	500	N	1000	20	30	5000	N		Pyrite-rich massive sulfide		
	102B	.45	890	7600	64000	7	N		>5000	N	200	N		700	N	15		5	3000		2000	10	N	>1000		Sulfide-rich banded felsic metatuff		
	102C	.40	1700	4100	55000	10	L		>5000		200	N		2000	20	10		5	3000		5000	20	20	>10000		Pyrite-rich layer in felsic metatuff		
102D	5.5	20000	190	15000	10	1000		>5000		50	5		15000	N	30		5	200		300	10	30	>10000		Banded felsic metatuff with layers of pyrite, sphalerite, galena			
102E	.55	1900	10000	46000	7	N		>5000		150	N		1500	N	15		5	1000		2000	10	L	>10000		Banded massive pyrite and chalcopyrite			
4	790G129A	.05	230	10	60	N	N	N	500	N	N	15	70	100	N	N	N	20	N	10	N	150	10	N	50	Schistose rhyodacite	"Helen S." group of old lode gold prospects (Buddington, 1923, p. 67). Occurrence of massive sulfides consists of crudely banded (10 cm thick) massive pyrite, pyrrhotite(?), arsenopyrite(?), sphalerite, and galena that has been dug from a small water-filled pit about 30 m inland at elevation about 15 m. Country rocks near pit include hematite-bearing phyllitic felsic metatuff, carbonaceous phyllite and limestone, and mafic intrusive(?) rocks. Current owners report boulders of massive sulfides in creeks near pit, and possibly at the Maid of Mexico mine (Buddington, 1923, p. 67) near Harvey Lake about 2 km east-southeast of locality 4. Lat: 56°34'11"N; Long: 133°04'03"W	
	130A	N(.05)	25	H750	2100	3	N		200				15					5	300	N	100	10	10	500	N	1.5 meter thick quartz-calcite vein in greenstone		
	131A	3.0	70	190	130	.5	700		70				50					5	30	N	N	20	N	N		1.0 meter thick quartz vein at old mine shaft		
	132A	N(.05)	45	10000	38000	30	N		70		200		50					5	2000		N	L	N	>10000		Massive pyrite, sphalerite, galena from dump at pit		
5	798G065A	N(.05)	30	H25	35	N	N	10	1000	N	N	20	100	20	N	N	N	20	L	20	500	150	30	N	70	Calcareous phyllitic metatuff(?)	Locality is site of intermittently active barite mine (Buddington, 1923, p. 72). Country rocks include phyllitic felsic metatuff with pyrite and minor sphalerite and galena, andesitic pillow flows and breccia, chert(?), and phyllitic calcareous (volcanic?) clastic rocks locally containing poorly preserved fossil clams possibly of Late Triassic age. Lat: 56°38'56"N; Long: 133°09'45"W	
	795H134A		85	H1300	25000			L	>6000		200	30	30	150				30	1500	5	700	100	15	10000	10	Silicic metatuff(?)		
	134B		200	20	170			10	1000		N	50	200	200				100	20	20	200	500	30	N	70	Recrystallized andesite pillow breccia		
6	7980072A	N(.05)	10	H30	15	N	N	L	100	N	N	N	20	7	N	N	N	15	L	7	500	50	20	N	50	Pyritic black carbonaceous phyllite	Maid of Mexico mine (Buddington, 1923, p. 67-68). Main adit is on NW bank of creek at about 350 ft. elevation; adit is caved a few feet from portal. Current (1979) operators are exploring for an auriferous quartz vein that locally also contains pods and streaks of pyrite and other sulfides. According to operators, vein cuts black carbonaceous slate near contact of dike- or sill-like body of felsic igneous rock. Country rocks at mine are black carbonaceous phyllitic mudstone, siltstone, and limestone intercalated(?) with rusty-weathering calcareous felsic metatuff ("impure siliceous dolomite" of Buddington) containing disseminated pyrite and possibly other sulfide minerals. The bedded rocks apparently are intruded by dikes or sills of rusty-weathering felsic aphanite that also carries disseminated sulfide minerals. Lat: 56°33'08"N; Long: 133°01'57"W	
	072B		180	H10	45			10	200				30	100	150			70	L	20	150	300	20		100	Rusty-weathering calcareous felsic metatuff		
	072C		160	H10	85			10	100				20	N	150			10	N	10	100	200	20		50	Rusty-weathering felsic aphanite with disseminated pyrite		
	790G141A	5.5	680	1300	1400	1		N	70		70	5	N	300				10	200	N	N	20	N	1500	N			Sulfide-bearing quartz vein
	141B	N(.05)	65	15	70	N		N	150		N	5	10	100				50	L	5		70		300				Quartz-slate "ribbon rock" with abundant pyrite (from mine dump)
141C	5.5	1800	43000	48000	200		10	50		>500	30	N	1500				50	20000	N		10		>10000			Quartz with abundant galena and sphalerite (from mine dump); semi-quantitative spectrographic analysis also shows 200 ppm Sb		
7	790G133A	N(.05)	40	700	170	10	1500	20	1000	N	N	N	N	50	N	N	N	5	300	N	N	30	N	200	N	Float sample of massive pyrite with minor quartz	Locally rusty-weathering light gray muscovite-rich siliceous phyllite (rhyodacite metatuff?) intercalated(?) with layers up to 2 or 3 meters thick of massive to phyllitic light greenish gray felsic aphanite (rhyolitic or dacitic metatuff?) that locally contains abundant (5-15%) disseminated pyrite, and at this locality, a two-meter thick zone of massive (about 50%) pyrite. Lat: 56°40'02"N; Long: 133°15'25"W	
	133B		38	240	390	5	N	10	2000				30				5	70	L	100	30	L	200	30		Typical sample of pyritic felsic metatuff from massive sulfide zone		
	134A		30	H10	45	N	N	10	700				15	100	70			30	N	N	300	100	L	N	70	Phyllitic felsic metatuff containing disseminated pyrite		