

Table 5.--Analyses of rock- and vein-minerals.

Sequence of elements according to Soddy's helical arrangement of the periodic system,  
Figures refer to spectral line densities.

	Sr	Ba	Sc	Yt	La	Yb	Tl	Zr	Sn	Pb	Ga	V	Zn	Cr	W	Cu	Ag	Mn	Ni	Co
Granodiorite hornblende	1	1+	5	2	1	3	3	5+	1	3	2+	4	3	2	-	4+	18	5	1	2
Vein Hornblende	1.5	4	3	2.5	-	2	2.5	2	1	.5	?	5	2	1	-	4+	6	4	5+	5.5
Granodiorite biotite	1	1+	1	-	-	-	tr	1	tr	2	4+	2	4	1+	-	3+	2	5	2	2
Vein biotite	.5	1+	.5	1	1.5	1	2.5	1.5	tr	.5	4+	3+	1.5	1+	-	5+	1.5	4	4+	3
Granodiorite plagioclase	1	1+	-	-	-	-	tr	tr	28	5+	2	tr	-	1	-	5+	5+	tr	5+	
Vein plagioclase	1+	1+	-	-	-	-	tr	-	-	tr	3	tr	-	tr	-	5+	1	1	tr	1
Granodiorite orthoclase	1	2	-	-	-	-	tr	1	3	5+	1	1	-	1	-	4+	5+	1	tr	5+
Vein orthoclase	4+	4	-	-	-	-	tr	-	-	1	?	-	-	-	-	tr	-	tr	-	1
Ferberite	-	1.5	-	13.5	-	9	tr	1	2	*	-	-	-	*	5	2+	1.5	3	-	tr
Scheelite	4	-	-	-	-	-	-	-	1	*	-	-	-	*	3	1+	-	-	-	tr
Quartz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-

SYMBOLS:

- Metal not detected.

\* Tungsten line interferes.

NOTE:

Not completely confirmed but probably present: P, Ge, Mo, Nd, Ce.

Sb and Bi found only in granodiorite plagioclase.

No As detected; traces of B in some samples.

Table 6.--Analyses of hornfelsed tuff, according to distance from granodiorite.

	Sr	Ba	B	Sc	Yt	Yb	Ti	Zr	Sn	Pb	Ga	V	Zn	Cr	Cu	Ag	Mn	Co	Ni
25 ft. from granodiorite (700 ft. from vein)	4+	4+	2	3.5	1	1	3	3	tr	1	?	5	-	3.5	4.5	2	4.5	1.5	4
1030 ft. from granodiorite (150 ft. from vein)	4	4+	3+	2.5	1	1	2.5	2.5	tr	.5	4	4.5	.5	3.5	3.5	2	2	2.5	3.5
1120 ft. from granodiorite (Footwall of vein)	4	4+	1	2.5	tr	tr	1.5	2	tr	1	3	3.5	-	4	4	1	1.5	tr	1
1250 ft. from granodiorite (Hanging-wall of vein)	5	5	2	3.5	.5	tr?	1.5	1.5	2.5	.5	3.5	4	1	3.5	5	3	1	1	2.5
1400 ft. from granodiorite (180 ft. from vein)	4	4+	.5	3	1	tr	2	3	-	1	3	3.5	2.5	3	3.5	1	3	1	2
1700 ft. from granodiorite (550 ft. from vein)	4+	4+	5+	3	tr	tr	2	2.5	tr	1	?	3.5	.5	3	1	1	2.5	1	2
Average	4.1+	4.1+	2.2	3.0	.6	.3	2.1	2.4	.4	1	2.2	4	.6	3.4	3.6	1.3	2.4	1.1	2.5

Symbols as in Table 5.

NOTE:

La, As, Sb, Bi, W not detected in any of the samples.

Table 7.--Analyses of diorite, upper and lower sills.

	Sr	Ba	B	Sc	Yt	Yb	Ti	Zr	Sn	Pb	Ga	V	Zn	Cr	Cu	Ag	Mn	Co	Ni
1	3.5	2	-	-	4	3.5	tr	-	-	3	-	2	-	tr	5+	1.5	4.5	3.5	4+
2	4+	4+	tr	1	1	tr	3	3.5	tr	1	5	2	-	tr	5+	3	2	4	3
3	2	2.5	tr	1	1	1	3	3	1	tr	4	4.5	.5	2.5	4	-	3	5	2.5
4	4+	4+	tr	3	1	1	4.5	4	tr	.5	3	5	1.5	2	4	1.5	5	2.5	2
5	4.5	4.5	tr	3	1?	tr	3	3	tr	1	3.5	4	1	3	4	3.5	4	tr	1
6	4+	4+	tr	3	1.5	2	3	4	.5	1	4	5	-	3.5	4	2.5	5	3	2
7	4.1	4.1	tr	3	1.2	1.5	3.5	3.6	.2	.8	3.5	4.6	.8	2.8	4	2.5	3.6	1.8	1.6
8	4+	4+	1	1.5	tr	tr	2.5	2.5	tr	1	3+	5	4.5	1	3	2	5	2.5	1
9	4+	4+	tr	1.5	1	1	3.5	3	tr	1	4+	5	-	3	4	.2	3.5	1.5	2
10	4+	4+	tr	3	1	1	3	3	tr	1	3	5	1	4	3	4	4.5	2	2
11	4+	4+	.3	2	.6	.6	3	2.8	tr	1	3.3+	5	1.8	2.6	3.3	2.6	4.3	2	1.6
12	4+	4+	.2	2.5	.9	1	3.2	3.2	.1	.9	3.4+	4.8	1.3	2.7	3.6	2.5	3.9	1.9	1.6

Symbols as in Table 5.

1. Silicified diorite, foot-wall of vein-shear  
 2. Biotized diorite; biotite: hornblende = 100:0; hanging-wall of vein-shear  
 3. Biotized diorite; biotite: hornblende = 78:22; hanging-wall of vein-shear }  
 4. Biotized diorite; biotite: hornblende = 36:64; 250 feet from vein }  
 5. Biotized diorite; biotite: hornblende = 18:82; 50 feet from vein }  
 6. Biotized diorite; biotite: hornblende = <10:90; 300 feet from vein }  
 7. Average of 4, 5, and 6  
 8. Diorite 10 feet from vein  
 9. Diorite 100 feet from vein } Lower sill  
 10. Diorite 200 feet from vein }  
 11. Average of 8, 9, and 10  
 12. Average of 7 and 11, i.e. average of the two diorite sills  
 La found only in 1
- Sb, Bi, W not detected, for other notes see Table 6  
 Upper sill  
 Lower sill

Table 8.--Averages of analyses of the several rock types.

	Sr	Ba	B	Sc	Yt	Yb	Tl	Zr	Sn	Pb	Ga	V	Zn	Sr	W	Cu	Ag	Mn	Co	Ni
Hornfelsed tuff	4.1	4.1	2.2	3	0.6	0.3	2.1	2.4	0.4	1	2.2	4	0.6	3.4	-	3.6	1.3	2.4	1.1	2.5
Andesite porphyry	4+	4	0.5	1.3	0.6	0.2	2.2	2.8	tr	0.6	4	3.2	-	1.8	-	4.3	1.2	2.8	.5	0.6
Diorite	4+	4+	0.2	2.5	0.9	1	3.2	3.2	0.1	0.9	4+	4.8	1.3	2.7	-	3.6	2.5	3.9	1.9	1.6
Granodiorite	3.5	4+	tr	1.5	0.5	-	1.5	2	tr	2	3.5	2	1	2	-	3+	1	3.5	1	1
Feldspar porphyry	4+	3.7		2.0	1.2	1.3	3.1	5.2	tr	1	4	3.2	1	1.2	-	2.3	1.3	3.2	tr	1.0

Symbols as in Table 5, note as in Table 6

Table 8---Averages of analyses of the several rock types.

	Sr	Ba	B	Sc	Yt	Yb	Ti	Zr	Sn	Pb	Ga	V	Zn	Cr	W	Cu	Ag	Mn	Co	Ni
Hornfelsed tuff	4.1	4.1	2.2	3	0.6	0.3	2.1	2.4	0.4	1	2.2	4	0.6	3.4	-	3.6	1.3	2.4	1.1	2.5
Andesite porphyry	4+	4	0.5	1.3	0.6	0.2	2.2	2.8	tr	0.6	4	3.2	-	1.8	-	4.3	1.2	2.8	.5	0.6
Diorite	4+	4+	0.2	2.5	0.9	1	3.2	3.2	0.1	0.9	4+	4.8	1.3	2.7	-	3.6	2.5	3.9	1.9	1.6
G. nodiorite	3.5	4+	tr	1.5	0.5	-	1.5	2	tr	2	3.5	2	1	2	-	3+	1	3.5	1	1
Feldspar porphyry	4+	3.7		2.0	1.2	1.3	3.1	5.2	tr	1	4	3.2	1	1.2	-	2.3	1.3	3.2	tr	1.0

Symbols as in Table 5, note as in Table 6