

Canyon Diablo Troilite

4406

Galena
95.375

Rossie, NY

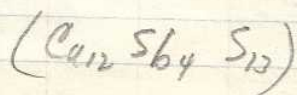
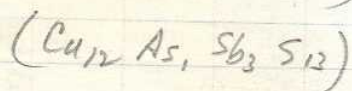
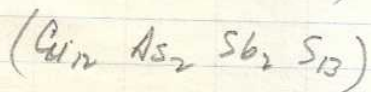
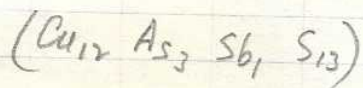
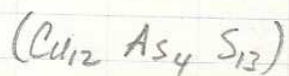
J. D. Whitney
coll.

SULFIDE STANDARDS

MINERAL	CHEMISTRY	NATURAL	SYNTHETIC	COMMENTS	SOURCE	
Chalcoite	(Cu ₂ S)	BUTTE, MONTANA	CHALCOITE Cu 79.86 S 20.14	Cov.	Cov. 95205	
Covellite	(CuS)	BUTTE, MONTANA		Cu 66.94 Fe 0.05 S 32.28	BORN Cu 63.24 Fe 11.20 S 25.54	CHAL. 109007
Bornite	(Cu ₅ FeS ₄)	BRISTOL, CONN.				Born 111064
CHALCOPYRITE	(CuFeS ₂)	CORNWALL, ENGLAND		Cu 33.60 Fe 70.92 S 34.90	HU # 102365	
STANNITE	(Cu ₂ FeSnS ₄)	ORURO, BOLIVIA		Cu 29.28 Fe 13.89 Sn 27.20 S 28.77	HU # 98692	
ROILITE	(FeS)	CANYON DIABLO		Cu 23.42 Fe 41.15 S 35.47		
CUBANITE	(CuFe ₂ S ₃)	MINAS GERAIS, BRAZIL			HU # 92552	
JALABANDITE	(MnS)	TOMBSTONE, ARIZ.		Mn 62.07 S 36.91	HU # 89167	
Sphalerite	(ZnS)		✓			
Galenite	(PbS)	ROSSIE, N.Y.		Pb 86.60 S 13.40	HU # 95374	
PROUSTITE	(Ag ₃ AsS ₃)		✓	Seem pretty homogeneous	R. Loucks	
RYARGYRITE	(Ag ₃ SbS ₃)					
STIBNITE	(Sb ₂ S ₃)	HERJA, ROMANIA		Sb 71.69 S 28.31	HU # 109225	
Lautite	(CuAsS)	Lauter, Saxony		to (Fe, Pb, Cu, Co, Zn, Ag)	HU # 82664	
ARSENOPYRITE	(FeAsS)	Hohenstein, Saxony		Lautite Cu 37.07 As 44.53 S 18.30	HU # 93102	
GUDMUNDITE	(FeSbS)	Gudmundsdorf, Sweden		As 45.42 Sb 57.31 S 19.58	HU # 94795	
Millerite	(NiS)	Seegen, Prussia		Ni 64.67 S 35.33	HU # 95378	
?	(CoS)		✓	check Co, Fe, Cu		
CINNABAR	(HgS)	NEW ALMADEN, CALIFORNIA		Hg 86.2 S 13.8	HU # 81937	
MOLYBDENITE	(MoS ₂)			Mo 59.94 W S 40.06 S	HU # 97231	
TUNGSTEDITE	(WS ₂)				HU # 80161	
REALGAR	(AsS)	Elsäbanyá, Romania		As 69.54 S 30.29	HU # 81937	
BISMUTHINITE	(Bi ₂ S ₃)	Ullallagua, Bolivia		Bi 81.3 S 18.7	HU # 87321	
HERZENBERGITE	(Sns)					
CASSITERITE	(SnO ₂)			must analyze samples		
ARGENTITE	(Ag ₂ S)	Silverton, Colo.		Ag 86.75 S 13.13	HU # 81675	
GREENOCKITE	(CdS)		✓			
WOLFRAMITE	[(Fe, Mn)WO ₄]			to be acquired		
Scheelite	(CaWO ₄)					

TETRAHEDRITE $(Cu, Ag)_{10} (Fe, Zn)_2 (As, Sb)_4 S_{13}$

SKINNER SYNTHETICS ARE



need silver analogues, and Zn & Fe-bearing ones

INTERNAL STDs

- ① TETRAHEDRITE
- ② Wolframite & Scheelite
- ③ RUBY SILVER