

Chlorite, Belvedere Mt., Vermont
 from chl-calc-ep vein
 Field # A - BM - 56 - 4b Lab # 14994
 wt%

SiO ₂	32.18	30.65
AlO _{3/2}	16.07	18.04
FeO _{3/2}	.89	.64
FeO	1.38	1.10
MgO	33.88	48.10
CaO	.62	.63
NaO _{1/2}	.06	.11
KO _{1/2}	.03	.04
HO _{1/2} ⁻	.70	--
HO _{1/2} ⁺	13.94	--
TiO ₂	.02	.01
CO ₂	.35	--
PO _{5/2}	.03	.02
F	.01	--
CrO _{3/2}	.15	.11
NiO	.03	.02
CoO	.01	.01
MnO	.06	.05
CuO	.008	.006
VO ₂	.002	.001
ScO _{3/2}	.0008	.0006
<u>total</u>	<u>100.42</u>	<u>100.00</u>
HO _{1/2}	--	88.57
CO ₂	--	.46
F	--	.03

Page 1

Chlorite Standard Pellet #1

Analyst: S.M. Berthold

Spectro: M. Seerveld

Note: Spectro. determinations of Ga, Y,
Yb, Zr, and Be = 0.

Arbitrary value based upon spectro.
report that Cr is in "tenths of a
percentage range."

If Ca, CO₂, Na, and K are simply dropped
as impurities, and if the formula is cal-
culated on the basis of Si + 1/2

(Al + Fe + Ti) = 4, on the assumption that
the determination of H₂O⁺ is high, the
chlorite formula is: (Mg_{4.81}Fe⁺²_{.11}Mn_{.005})

(Al_{.87}Fe⁺³_{.07}Ti_{.003}) (Si_{3.07}Al_{.93})_{9.43}(OH)_{8.86}

Optics: 2V=30°, Optic sign (+),

Elong. (-), α β = 1.576, = 1.580,

faint abnormal brown biref.