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Crystal Data: Hexagonal. *Point Group:* $\overline{3}$ or 3. As fibrous crystals, with fibrils || [1000], forming spheres, to 3 mm; in irregular botryoidal aggregates.

Physical Properties: Cleavage: $\{0001\}$, perfect. Hardness = 4–5 D(meas.) = 2.7–2.8 D(calc.) = 2.93

Optical Properties: Translucent. *Color:* Dark brown; in transmitted light, light to dark brown. *Streak:* Light brown. *Luster:* Vitreous. *Optical Class:* Uniaxial (-). *Pleochroism:* O = pale brown; E' = dark brown. $\omega = 1.598$ $\epsilon =$ n.d.

Cell Data: Space Group: $P\overline{3}$ or P3. a = 9.60(2) c = 35.92(10) Z = 5

X-ray Powder Pattern: Wessels mine, South Africa. 3.60 (100), 1.840 (90), 3.13 (80b), 7.15 (70), 4.18 (70), 2.545 (40b), 2.469 (40b)

Chemistry:

	(1)
SiO_2	46.8
Al_2O_3	0.2
Fe_2O_3	0.8
MnO	19.7
MgO	1.6
CaO	21.6
Na_2O	0.6
$H_2\bar{O}$	8.68
Total	100.0

(1) Wessels mine, South Africa; by electron microprobe, H_2O by the Penfield method; corresponds to $(Ca_{18.6}Mn_{13.4}Mg_{2.4}Na_{0.7}Fe_{0.5})_{\Sigma=35.6}(Si_{37.7}Al_{0.2})_{\Sigma=37.9}O_{111} \bullet 23.3H_2O$.

Occurrence: Apparently as a vein mineral in a manganese ore body.

Association: Inesite, hematite, calcite.

Distribution: In a specimen attributed to the Wessels mine, near Kuruman, Cape Province, South Africa.

Name: In honor of Orlando Lyman (?-1986), founder of the Lyman House Memorial Museum in Hilo, Hawaii, USA.

Type Material: National Museum of Natural History, Washington, D.C., USA, 166368.

References: (1) Peacor, D.R., P.J. Dunn, and J.A. Nelen (1990) Orlymanite, Ca_4Mn_3 Si₈O₂₀(OH)₆•2H₂O, a new mineral from South Africa: a link between gyrolite-family and conventional phyllosilicate minerals? Amer. Mineral., 75, 923–927.