Crystal Data: Monoclinic. *Point Group*: 2/m. Bladed crystals elongated along [001], to 0.70 mm, display $\{100\}$, $\{010\}$, $\{001\}$, and $\{10\overline{1}\}$; often in tufts. *Twinning*: Common on (100).

Physical Properties: Cleavage: Perfect on $\{100\}$. Tenacity: Brittle. Fracture: n.d. Hardness = ~ 5 D(meas.) = n.d. D(calc.) = 4.43

Optical Properties: Transparent. *Color*: Colorless. *Streak*: White. *Luster*: Vitreous. *Optical Class*: Biaxial (+). $\alpha = 1.690$ $\beta = 1.694$ $\gamma = 1.700$ *Orientation*: $c \wedge Z = 26^{\circ}$. $2V(\text{meas.}) = 65(2)^{\circ}$ $2V(\text{calc.}) = 66^{\circ}$ *Dispersion*: Strong, r > v.

Cell Data: Space Group: I2/m. a = 7.8356(6) b = 13.913(1) c = 10.278(1) $\beta = 92.925(4)^{\circ}$ Z = 4

X-ray Powder Pattern: Calculated pattern.

6.0754 (100), 3.9897 (98), 2.8416 (90), 2.7532 (85), 3.48 (80), 6.8206 (77), 3.3224 (75)

Chemistry:	(1)
SiO_2	30.64
Al_2O_3	7.44
PbO	59.80
$\underline{\text{H}_2\text{O}^+}$	[1.18]
Total	99.06

(1) Big Horn Mountains, Maricopa County, Arizona, USA.; average of 11 electron microprobe analyses supplemented by Raman spectroscopy, H_2O estimated for charge balance; corresponds to $Pb_{2.05}(Si_{3.89}Al_{1.11})O_{11}(OH)$.

Occurrence: The product of the weathering of a lead and copper-bearing quartz vein in gneiss.

Association: Wickenburgite, fornacite, mimetite, murdochite, creaseyite.

Distribution: From the Big Horn Mountains, Maricopa County, Arizona, USA.

Name: Honors Ronald Bradford Gibbs, a mineral collector and a mining engineer in Tucson, Arizona, USA, who found the first specimens.

Type Material: University of Arizona Mineral Museum, Tucson, Arizona, USA (19292) and the RRUFF Project (R100031).

References: (1) Yang, H., R.T. Downs, S.H. Evans, R.A. Jenkins, and E.M. Bloch (2013) Rongibbsite, Pb₂(Si₄Al)O₁₁(OH), a new zeolitic aluminosilicate mineral with an interrupted framework from Maricopa County, Arizona, U.S.A. Amer. Mineral., 98, 236-241.