

NOTES AND NEWS

BARIUM-MUSCOVITE FROM FRANKLIN, N. J.

L. H. BAUER AND HARRY BERMAN

In June 1932, Mr. J. F. Morton, Director of the Paterson Museum, brought to the Harvard Mineralogical Laboratory for determination a specimen of Franklin ore which he had obtained shortly before on the picking table at the mill. The specimen consisted chiefly of a massive pink mineral with obscure cleavage intermixed with microcline feldspar, yellow garnet, manganophyllite and franklinite. The pink mineral appeared under the microscope to have a micaceous texture and had about the optical characters of muscovite. But its macroscopic appearance was so unlike that of a mica that a chemical analysis seemed necessary to establish its nature.

A sample was purified by Berman and analyzed by Bauer with the result shown below. Alongside of this analysis is that of a barium-muscovite from the Tyrol and the practical identity of the two analyses, taken with the optical characters, establishes the nature of the material. The varietal name oellacherite is given by Dana to this barium-muscovite.

- I. Barium-muscovite, Franklin, N. J. Analyst, L. H. Bauer.
 II. Barium-muscovite, "oellacherite," *Doelter, Handb. Mineralchemie*, vol. 2, pt. 2, p. 442. In *Dana, System*, p. 619, no. 62 is a very similar analysis.

	I	II
H ₂ O	4.05	4.26
SiO ₂	41.37	43.07
Al ₂ O ₃	32.64	32.69
MnO	.62	.31
CaO	.36	.23
MgO	1.55	2.90
ZnO	1.84	—
BaO	9.89	5.91
K ₂ O	6.33	7.61
Na ₂ O	1.51	1.42
Fe ₂ O ₃	—	1.85
	100.16	100.35