

PYRITE CRYSTALS FROM BALD MOUNTAIN,  
COLORADO

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The pyrite crystals which furnish the basis for this note occurred on a small hand specimen which was collected about 1910 from a prospect on Bald Mountain, Boulder County, Colorado, by Mr. R. W. Jones. They differ in habit from those described by Schaller,<sup>1</sup> altho somewhat resembling the crystals of Type I figured by Kraus and Scott.<sup>2</sup>

The eight crystals studied average about 2 mm. in diameter and are symmetrical in development, conforming closely to the habit shown in Fig. 1. Several rare forms were noted, including two new to the species. The forms comprise  $a(100)$ ,  $d(110)$ ,  $o(111)$ ,  $b(810)$ ,  $O(730)$ ,  $e(210)$ ,  $i(430)$ ,  $\zeta(650)$ ,  $m(311)$ ,  $q(211)$ ,  $u(221)$ , and the new diploids  $S'(874)$ , and  $r'(10.5.4)$

The following measurements, made on a Fuess No. 2 goniometer, served to identify the forms:

TABLE 1. ANGLES OF PYRITE FROM BALD MT., COLO.

Letters	Symbols	Number of Measurements	Measured	Calculated
$a : b$	001 : 810	10	7° 11'	7° 7½'
$: O$	: 730	7	23 0½	23 11
$: e$	: 210	25	26 36	26 34
$: i$	: 430	16	36 57	36 52
$: s$	: 650	17	39 47	39 48
$: d$	: 110	13	45 1½	45 0
$e : r'$	102 : 5.4.10	10	19 41	19 40½
$: q$	: 112	35	24 14	24 5½
$: S'$	: 478	13	37 58	38 2
$: u'$	: 122	27	41 49½	41 48½
$a : m$	100 : 311	6	25 1	25 14½
$: q$	: 211	8	35 23	35 16
$: p$	: 111	10	54 45½	54 44
$: u$	: 221	8	70 40	70 31½
$: d$	: 110	5	89 57½	90 0

The forms grouped about the planes of the octahedron are in many instances reduced to very thin bevels and, altho yielding definite reflections of the goniometer signal, are only visible

<sup>1</sup> *U. S. Geol. Survey Bull.* **262**, 133, 1905.

<sup>2</sup> *Z. Kryst. Min.*, **44**, 151, 1907.

