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Crystal Data: Hexagonal. Point Group: n.d. As grains and laths, to $150 \mu \mathrm{~m}$.
Physical Properties: Cleavage: Good on $\{100\}$. Fracture: Conchoidal. Hardness $=\sim 3.5$ $\mathrm{VHN}=$ n.d. $\quad \mathrm{D}($ meas. $)=$ n.d. $\quad \mathrm{D}($ calc..$)=4.212$ Weakly magnetic.

Optical Properties: Opaque. Color: Brass-yellow. Streak: Black. Luster: Metallic. Pleochroism: Weak, pale yellow to slightly deeper yellow. Anisotropism: Strong, from grayish brown to grayish blue.
$\mathrm{R}_{1}-\mathrm{R}_{2}$ : (470) 34.7, (546) 39.9, (589) 42.8, (650) 46.9
Cell Data: $\quad$ Space Group: n.d. $\quad a=3.695(1) \quad c=6.16(1) \quad Z=4$
X-ray Powder Pattern: Near Orick, California, USA.
3.08 (100), 3.20 ( 90 ), 1.85 (70), 2.84 (60), 1.73 (55), 1.583 (30), 2.20 (20)

Chemistry:

| Na | 0.4 |
| :--- | ---: |
| K | 0.2 |
| Cu | 31.7 |
| Fe | 31.0 |
| S | 33.6 |
| $\mathrm{H}_{2} \mathrm{O}$ | $[3.1]$ |
| Total | $[100.0]$ |

(1) Near Orick, California, USA; by electron microprobe, average of six grains, $\mathrm{H}_{2} \mathrm{O}$ by difference ( $1.5 \%$ to $5.1 \%$ oxygen qualitatively determined, presumed to be in $\mathrm{H}_{2} \mathrm{O}$ ); then corresponds to $\left(\mathrm{Na}_{0.03} \mathrm{~K}_{0.01}\right)_{\Sigma=0.04} \mathrm{Cu}_{0.95} \mathrm{Fe}_{1.06} \mathrm{~S}_{2.00} \bullet 0.33 \mathrm{H}_{2} \mathrm{O}$.

Occurrence: In an alkalic mafic diatreme, in small pegmatitic clots thought to have crystallized late in the consolidation of the Coyote Peak intrusive.

Association: Djerfisherite, rasvumite, bartonite, erdite, coyoteite, phlogopite, schorlomite, acmite, sodalite, cancrinite, pectolite, natrolite, magnetite, calcite.

Distribution: From Coyote Peak, near Orick, Humboldt Co., California, USA [TL].
Name: For the town of Orick, California, USA, near the locality.
Type Material: National Museum of Natural History, Washington, D.C., USA, 150336.
References: (1) Erd, R.C. and G.K. Czamanske (1983) Orickite and coyoteite, two new sulfide minerals from Coyote Peak, Humboldt Co., California. Amer. Mineral., 68, 245-254.

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