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Crystal Data: Hexagonal. Point Group: n.d. As grains and laths, to 150  $\mu$ m.

**Physical Properties:** Cleavage: Good on  $\{100\}$ . Fracture: Conchoidal. Hardness =  $\sim 3.5$  VHN = n.d. D(meas.) = n.d. 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.

 $R_1-R_2$ : (470) 34.7, (546) 39.9, (589) 42.8, (650) 46.9

**Cell Data:** Space Group: n.d. a = 3.695(1) c = 6.16(1) 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:

	(1)
Na	0.4
Κ	0.2
Cu	31.7
Fe	31.0
$\mathbf{S}$	33.6
$H_2O$	[3.1]
Total	[100.0]

(1) Near Orick, California, USA; by electron microprobe, average of six grains,  $H_2O$  by difference (1.5% to 5.1% oxygen qualitatively determined, presumed to be in  $H_2O$ ); then corresponds to  $(Na_{0.03}K_{0.01})_{\Sigma=0.04}Cu_{0.95}Fe_{1.06}S_{2.00} \cdot 0.33H_2O$ .

**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.