

**Crystal Data:** Triclinic. *Point Group:* 1 or  $\bar{1}$ . As grains, up to 0.4 mm, showing typically a chevron pattern in polished section, developed by opposing cleavage lamellae.

**Physical Properties:** *Cleavage:* Perfect on {111}. *Hardness* = ~1.5 VHN = n.d.  
D(meas.) = 2.5–2.63 D(calc.) = 2.879 Moderately magnetic.

**Optical Properties:** Opaque. *Color:* Black; in polished section, pale brownish gray with a pink tint. *Luster:* Metallic. *Pleochroism:* Faint, from gray to pink. *Anisotropism:* Strong, colors from gray to dull golden orange.

R<sub>1</sub>–R<sub>2</sub>: n.d.

**Cell Data:** *Space Group:* P1 or  $P\bar{1}$ .  $a = 7.409(8)$   $b = 9.881(6)$   $c = 6.441(3)$   
 $\alpha = 100^\circ 25(3)'$   $\beta = 104^\circ 37(5)'$   $\gamma = 81^\circ 29(5)'$   $Z = 2$

**X-ray Powder Pattern:** Coyote Peak, California, USA.  
5.12 (100), 7.13 (90), 3.023 (80), 3.080 (70), 9.6 (60), 5.60 (60), 3.910 (50)

**Chemistry:**

	(1)	(2)
Na	5.99	5.94
Fe	44.0	43.31
S	41.3	41.44
H <sub>2</sub> O	[8.71]	9.31
Total	[100.00]	100.00

(1) Coyote Peak, California, USA; by electron microprobe, average of five grains, H<sub>2</sub>O by difference, on independent proof of the presence of oxygen; corresponds to Na<sub>1.01</sub>Fe<sub>3.06</sub>S<sub>5.00</sub>•1.88H<sub>2</sub>O. (2) NaFe<sub>3</sub>S<sub>5</sub>•2H<sub>2</sub>O.

**Occurrence:** With rare iron sulfides in small pegmatitic clots thought to have crystallized late in the consolidation of the Coyote Peak intrusive, an alkalic mafic diatreme.

**Association:** Pyrrhotite, djerfisherite, rasvumite, bartonite, erdite, phlogopite, schorlomite, acmite, sodalite, cancrinite, pectolite, natrolite, magnetite, calcite.

**Distribution:** From Coyote Peak, near Orick, Humboldt Co., California, USA [TL].

**Name:** For Coyote Peak, California, a local prominence on which the mineral was found.

**Type Material:** National Museum of Natural History, Washington, D.C., USA, 150335.

**References:** (1) Erd, R.C. and G.K. Czamanske (1983) Orickite and coyoteite, two new sulfides from Coyote Peak, Humboldt Co., California. *Amer. Mineral.*, 68, 245–254.