

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.

R₁–R₂: n.d.

Cell Data: *Space Group:* *P*1 or *P* $\bar{1}$. *a* = 7.409(8) *b* = 9.881(6) *c* = 6.441(3)
 α = 100°25(3)' β = 104°37(5)' γ = 81°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 ₂ O	[8.71]	9.31
Total	[100.00]	100.00

(1) Coyote Peak, California, USA; by electron microprobe, average of five grains, H₂O by difference, on independent proof of the presence of oxygen; corresponds to Na_{1.01}Fe_{3.06}S_{5.00}•1.88H₂O. (2) NaFe₃S₅•2H₂O.

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.