# *A K-Ar age of quartz monzonite dike in the Kerwin mining district, Park County, Wyoming*

H.T. Schassberger

Isochron/West, Bulletin of Isotopic Geochronology, v. 4, pp. 31

*This page is intentionally left blank to maintain order of facing pages.*

# SHORT NOTES

## A K-AR AGE OF A QUARTZ MONZONITE DIKE IN THE KERWIN MINING DISTRICT, PARK COUNTY, WYOMING

H. T. Schassberger
AMAX Exploration, Inc.
Denver, CO 80226

The following K-Ar age determination was run in 1965 by Geochron Laboratories, Inc. for American Metal Climax, Inc. (Amax); constants used in age calculations were $\lambda_\epsilon = 0.585 \times 10^{-10}$/yr; $\lambda_\beta = 4.72 \times 10^{-10}$/yr; $K^{40}/K_{total} = 1.22 \times 10^{-4}$ gm/gm.

1. G-B0506/AM-X17837 K-Ar (biotite) 40.2±1.4 m.y.

Quartz monzonite dike (from drill hole DH-1; Kirwin mining district, Park Co., WY) intruding andesitic volcanic rocks of the Wiggins Formation; both dike and volcanic rocks contain porphyry copper-type mineralization. Analytical data: K = 6.78%; $\overset{*}{Ar}^{40}$ = 0.0198 ppm; $\overset{*}{Ar}^{40}/\Sigma Ar^{40}$ = 58%, 65%; analyzed separate was 95+ % biotite, less than 5% quartz, feldspar, etc. (grain size –60+200 mesh).