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

H.T. Schassberger

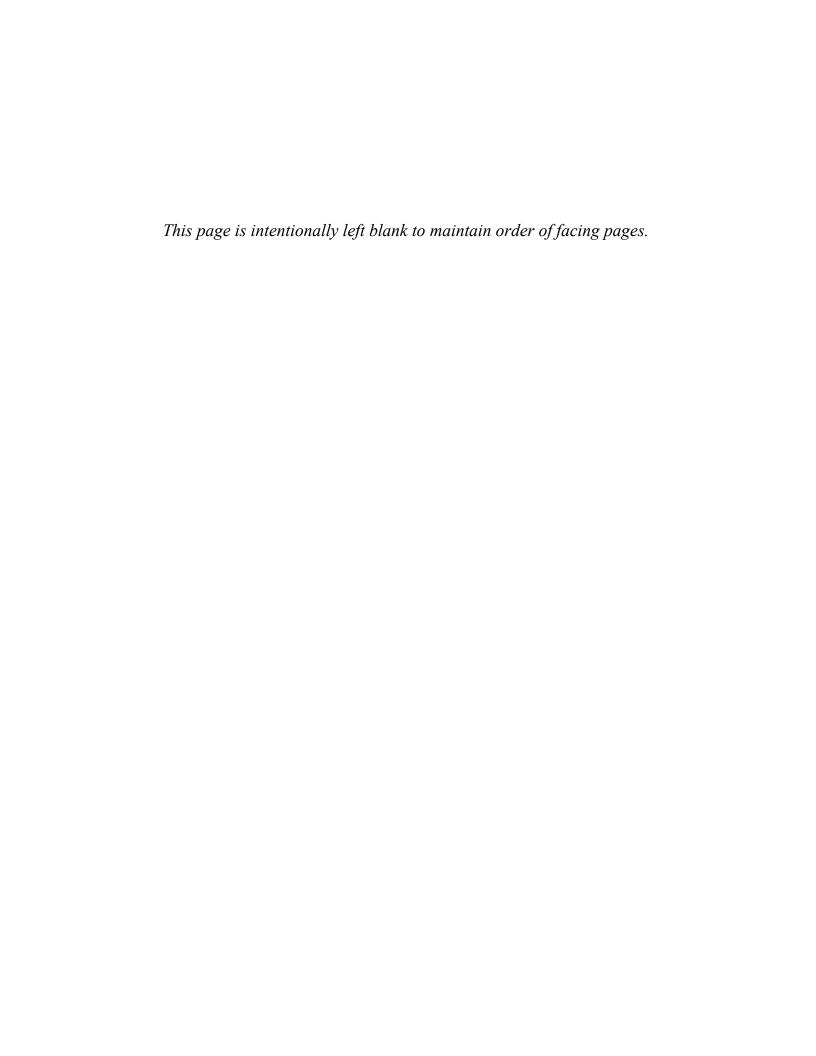
Isochron/West, Bulletin of Isotopic Geochronology, v. 4, pp. 31

Downloaded from: https://geoinfo.nmt.edu/publications/periodicals/isochronwest/home.cfml?lssue=4

Isochron/West was published at irregular intervals from 1971 to 1996. The journal was patterned after the journal *Radiocarbon* and covered isotopic age-dating (except carbon-14) on rocks and minerals from the Western Hemisphere. Initially, the geographic scope of papers was restricted to the western half of the United States, but was later expanded. The journal was sponsored and staffed by the New Mexico Bureau of Mines (now Geology) & Mineral Resources and the Nevada Bureau of Mines & Geology.



All back-issue papers are available for free: https://geoinfo.nmt.edu/publications/periodicals/isochronwest



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 $\lambda_c = 0.585 \times 10^{-10}/\text{yr}$; $\lambda_\beta = 4.72 \times 10^{-10}/\text{yr}$; $K^{40}/K_{total} = 1.22 \times 10^{-4} \text{ gm/gm}$.

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%; $\text{År}^{40} = 0.0198$ ppm; $\text{År}^{40}/\Sigma \text{Ar}^{40} = 58\%$, 65%; analyzed separate was 95+% biotite, less than 5% quartz, feldspar, etc. (grain size -60+200 mesh).