

Late Cretaceous and Eocene ages for hydrothermal alteration and mineralization, Bayhorse district and vicinity, Custer County, Idaho

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3. USGS(D)-D2340M

K-Ar

(sericite) 92.9 ± 3.3 m.y.

Very fine-grained sericite from vein selvage material. ($44^{\circ}24.9'N$, $114^{\circ}22.3'W$, dump opposite portal of tunnel no. 5, Skylark Mine, Bayhorse district; Custer Co., ID). Analytical data: $K_2O = 5.43\%$ and 5.41% ; $*Ar^{40} = 7.616 \times 10^{-10}$ moles/gm; $*Ar^{40}/\Sigma Ar^{40} = 91\%$; collection and sample preparation by: D. H. McIntyre, U. S. Geological Survey; analyzed by: R. F. Marvin, H. H. Mehnert, and Violet Merritt, U. S. Geological Survey. Comment: Sericite concentrate was essentially pure, as no extraneous peaks (other than minor quartz) were obtained on the diffractogram when the sericite was x-rayed. Sample behavior during fusion suggested a higher-than-usual H_2O content. Na_2O content of the sericite is 0.88% and 0.83% .

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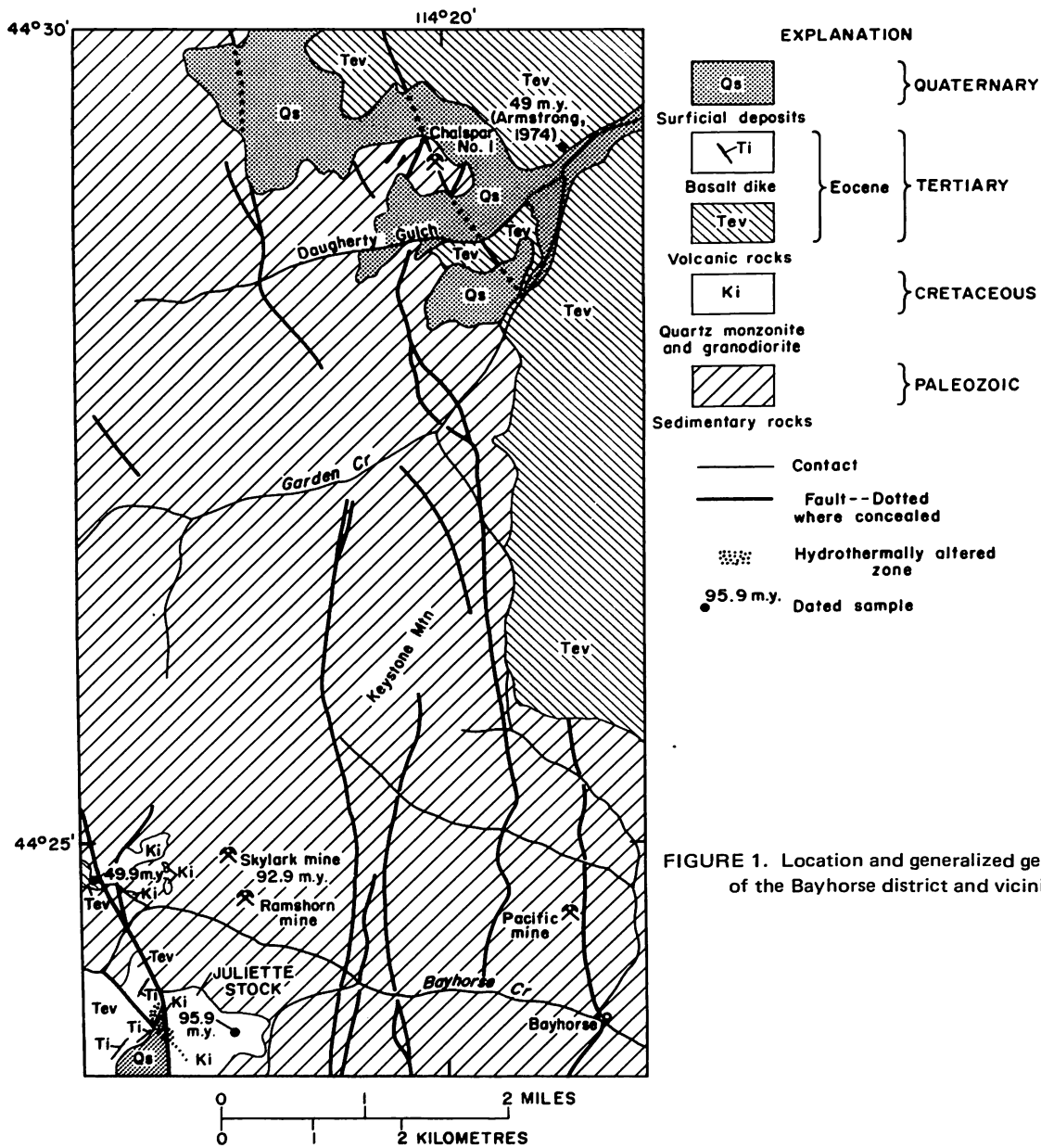


FIGURE 1. Location and generalized geologic map of the Bayhorse district and vicinity.