



**CALIFORNIA DEPARTMENT OF CONSERVATION
CALIFORNIA GEOLOGICAL SURVEY**

www.conservation.ca.gov

**MAP SHEET RELEASE
December 2008**

MAP SHEET 55A

AGE AND CHARACTER OF SILICIC ASH-FLOW TUFFS AT HASKELL PEAK, SIERRA COUNTY, CALIFORNIA: PART OF A MAJOR EOCENE(?) -OLIGOCENE PALEOVALLEY SPANNING THE SIERRA NEVADA-BASIN AND RANGE BOUNDARY.

by Elwood R. Brooks, Christopher D. Henry, and James E. Faulds

Map Sheet 55A is an updated and considerably expanded version of text originally published in 2003 with Map Sheet 55, a geologic map of the Haskell Peak area in Sierra County, California. Since publication of Map Sheet 55, the $^{40}\text{Ar}/^{39}\text{Ar}$ ages of sanidine phenocrysts necessary for confident correlation of the tuffs have been acquired. Also, paleomagnetic data are now available, as are electron microprobe analyses of phenocrysts in several vitrophyres. Although some paleovalleys and paleochannels had been previously recognized at Haskell Peak, the presence and regional significance of a major paleovalley passing through Haskell Peak had not been appreciated, nor had the likelihood of multiple source calderas for tuffs in central Nevada. Map Sheet 55A consists of two colored geologic maps at a scale of 1:12,000 and a 41-page pamphlet containing a description of the map units, trace-element chemistry, correlation of tuffs and geochronology.

Map Sheet 55A is available for reference at the California Geological Survey offices in Sacramento, Menlo Park, and Los Angeles.

Price..... \$15.00
Shipping and handling..... \$5.00

(Check, money order or credit card number must be included with order)

801 K Street, MS 14-34
Sacramento, CA 95814
Phone: (916) 445-5716
Fax: (916) 327-1853

345 Middlefield Road, MS 520
Menlo Park, CA 94025
Phone: (650) 688-6327
Fax: (650) 688-6329

Gary Taylor
Senior Engineering Geologist

Sacramento Information Office, 801 K Street, 14th Floor, MS 14-34, Sacramento, CA 95814-3532, (916) 445-5716
Los Angeles Information Office, 888 Figueroa Street, Suite 475, Los Angeles, CA 90017, (213) 239-0878
Menlo Park Information Office, 345 Middlefield Road, MS 520, Menlo Park, CA 94025, (650) 688-6327