

Whole-rock Geochemical Data for the Panguitch 30' x 60' Quadrangle, Iron, Garfield, and Kane Counties, Utah

by

Robert F. Biek

Bibliographic citation for this data report:

Biek, R.F., 2013, Whole-rock geochemical data for the Panguitch 30' x 60' quadrangle, Iron, Garfield, and Kane Counties, Utah: Utah Geological Survey Open-File Report 623, variously paginated; also available online, <http://geology.utah.gov/online/ofr/ofr-623.pdf>.



OPEN-FILE REPORT 623
UTAH GEOLOGICAL SURVEY
a division of
Utah Department of Natural Resources
2013

INTRODUCTION

This report makes available raw analytical data from laboratory procedures completed to determine the geochemistry of rock samples collected during geologic mapping partially supported by the Utah Geological Survey (UGS). Additional information about these samples is available in Biek and others (2012). These data were prepared by ALS Chemex, Inc. under contract to the UGS. These data are highly technical in nature and proper interpretation requires considerable training in applicable geochemical techniques.

DISCLAIMER

This open-file release is intended as a data repository for technical analytical information gathered in support of geologic mapping of the Panguitch 30' x 60' quadrangle. These data may not conform to UGS technical or editorial standards. Therefore, it may be premature for an individual or group to take actions based on the contents of this report. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

Geologic mapping of the Panguitch 30' x 60' quadrangle was funded by the Utah Geological Survey and the U.S. Geological Survey, National Cooperative Geologic Mapping Program through USGS STATEMAP award numbers 08HQAG0096, G09AC00152, G10AC00386, and G11AC20249. The views and conclusions contained in this document are those of the author and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government.

REFERENCES

- Biek, R.F., Rowley, P.D., Anderson, J.J., Maldonado, F., Moore, D.W., Eaton, J.G., Hereford, R., and Matyjasik, B., 2012, Interim geologic map of the Panguitch 30' x 60' quadrangle, Garfield, Iron, and Kane Counties, Utah: Utah Geological Survey Open-File Report 599, 124 p., 3 plates, scale 1:62,500.
- Biek, R.F., Rowley, P.D., Anderson, J.J., Maldonado, F., Moore, D.W., Hacker, D.B., Eaton, J.G., Hereford, R., Filkorn, H., and Matyjasik, B., in preparation, Geologic map of the Panguitch 30' x 60' quadrangle, Garfield, Iron, and Kane Counties, Utah: Utah Geological Survey Map.
- LeBas, M.J., LeMaitre, R.W., Streckeisen, A., and Zanettin, B., 1986, A chemical classification of volcanic rocks based on the total alkali-silica diagram: *Journal of Petrology*, v. 27, p. 745-750.

Moore, D.W., Nealey, L.D., Rowley, P.D., Hatfield, S.C., Maxwell, D.J., and Mitchell, E., 2004, Geologic map of the Navajo Lake quadrangle, Kane and Iron Counties, Utah: Utah Geological Survey Map 199, 2 plates, scale 1:24,000.

Nealey, L.D., Budahn, J.R., Maldonado, F., and Unruh, D.M., 1997, Geochemistry and petrogenesis of Quaternary basaltic rocks from the Red Hills and western Markagunt Plateau, southwestern Utah, *in* Maldonado, F., and Nealey, L.D., editors, Geologic studies in the Basin and Range-Colorado Plateau transition in southeastern Nevada, southwestern Utah, and northwestern Arizona, 1995: U.S. Geological Survey Bulletin 2153-I, p. 177-198.

Stowell, S.L., 2006, Volcanology and petrogenesis of the Navajo Lake volcanic field: Las Vegas, University of Nevada, M.S. thesis, 87 p.