

$^{40}\text{Ar}/^{39}\text{Ar}$ GEOCHRONOLOGY RESULTS FROM THE HAYCOCK MOUNTAIN, LITTLE CREEK PEAK, AND PANGUITCH LAKE QUADRANGLES, UTAH

by

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DISCLAIMER

This open-file release is intended as a data repository for information gathered in support of various geologic investigations. The data are presented as received from Filkorn and the Nevada Isotope Geochronology Laboratory (NIGL) and do not necessarily conform to UGS technical, editorial, or policy standards; this should be considered by an individual or group planning to take action based on the contents of this report. The Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding the suitability of this product 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.

INTRODUCTION

This open-file report makes available raw analytical data from laboratory procedures completed to determine the age of rock samples collected during geologic investigations in southwestern Utah by Harry Filkorn (Pierce College, California) in 2018–2019. Table 1 provides sample identifications, locations, and notes for the age data. The references listed near the end of the document generally provide additional information such as sample location, geologic setting, and significance or interpretation of the samples in the context of the area where they were collected. This report was prepared by NIGL under contract to Filkorn. These data are highly technical in nature and proper interpretation requires considerable training in the applicable geochronologic techniques.

Table 1. Sample ID, locations, and notes.

Sample ID	7.5' quadrangle	UTM easting	UTM northing	Notes
TSHM	Haycock Mountain	0358231	4177028	Haycock Mountain Tuff, type section, Aug. 19, 2018
SENR	Little Creek Peak	0364113	4199170	Sandy Peak andesite, south end of north ridge, Aug. 14, 2018
PLV1	Panguitch Lake	0356693	4175991	Panguitch Lake volcanics, Aug. 17, 2019; figures 1 and 2
NSJ1	Haycock Mountain	0356725	4176287	North Shore junction volcanics, Aug. 17, 2019

Notes:

All the listed coordinates are in NAD 83, UTM zone 12N.

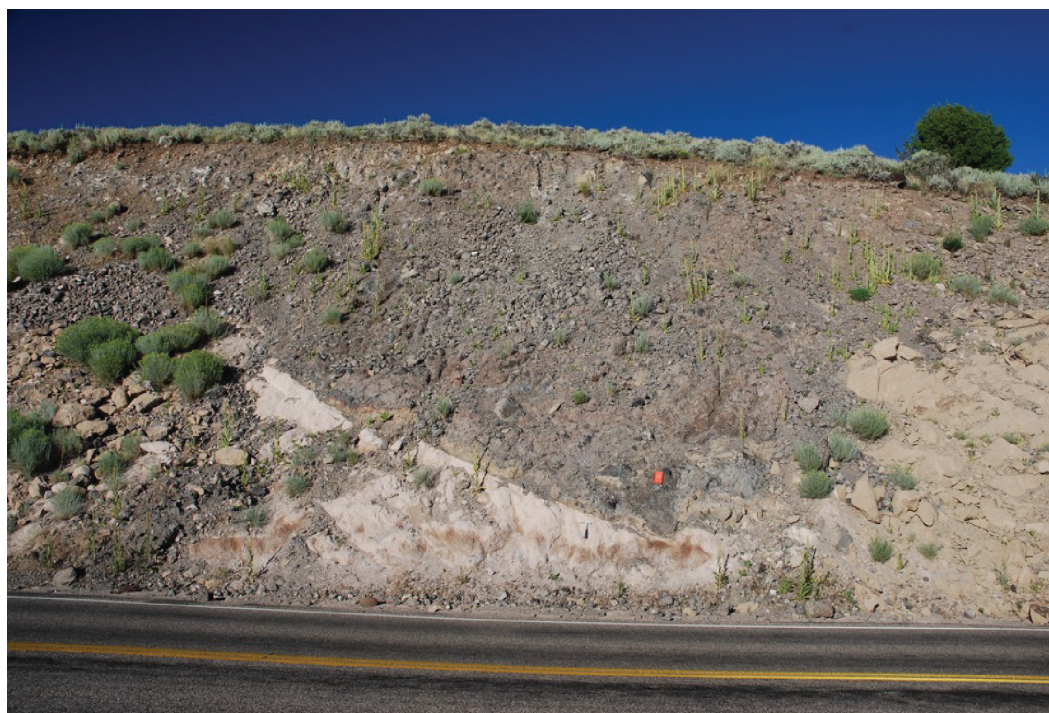


Figure 1. View of road cut with the Panguitch Lake volcanics (sample PLV1, gray and black rocks, with the orange notebook) and associated rocks. Photo by H.F. Filkorn.



Figure 2. Close-up view of gray- and black-colored Panguitch Lake volcanics (sample PLV1) at upper right. Same location as figure 1. Photo by H.F. Filkorn.

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APPENDIX

NIGL Procedures and Analytical Data

https://ugspub.nr.utah.gov/publications/open_file_reports/ofr-751/ofr-751.zip