

U-Pb Zircon Geochronology Results for the Davis Knolls, Faust, Ophir, and Vernon Quadrangles, Utah

by

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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 funded or partially supported by the Utah Geological Survey (UGS). The references listed in table 1 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 Apatite to Zircon, Inc. under contract to the UGS. These data are highly technical in nature and proper interpretation requires considerable training in the applicable geochronologic techniques.

The data and methods are provided in the following links:

[1831_UPb_Zircon_AgeData.xls](#)

[1835_UPb_DetritalZircon_AgeData.xls](#)

[RV46_UPb_DetritalZircon_AgeData.xls](#)

[RV48_UPb_DetritalZircon_AgeData.xls](#)

[AtoZ_Methods_UPb_ICP.pdf](#)

Table 1. Sample numbers and locations.

| Sample # | 7.5' quadrangle | UTM Easting NAD83-12 | UTM Northing NAD83-12 | Reference |
|----------|-----------------|-------------------------|--------------------------|---|
| 1831 | Ophir | 392508 | 4469197 | Kirby (2012), Clark and others (2012) |
| 1835 | Faust | 379819 | 4448468 | Kirby (2010b), Clark and others (2012) |
| | | UTM Easting NAD27-12 | UTM Northing NAD27-12 | |
| RV-46 | Davis Knolls | 383931 | 4436403 | Clark and others (2012) |
| RV-48 | Vernon | 362036 | 4447797 | Kirby (2010a), Clark and others (2012) |

DISCLAIMER

This open-file release is intended as a data repository for information gathered in support of various UGS projects. The data are presented as received from Apatite to Zircon, Inc. 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

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REFERENCES

- Clark, D.L., Kirby, S.M., and Oviatt, C.G., 2012, Interim geologic map of the Rush Valley 30' x 60' quadrangle, Tooele, Utah, Salt Lake, and Juab Counties, Utah: Utah Geological Survey Open-File Report 593, 2 plates, 65 p., scale 1:62,500, CD.
- Kirby, S.M., 2010a, Interim geologic map of the Vernon quadrangle, Tooele County, Utah: Utah Geological Survey Open-File Report 564, 2 plates, scale 1:24,000, CD.
- Kirby, S.M., 2010b, Interim geologic map of the Faust quadrangle, Tooele County, Utah: Utah Geological Survey Open-File Report 573, 2 plates, scale 1:24,000, CD.
- Kirby, S.M., 2012, Geologic map of the Ophir quadrangle, Tooele County, Utah: Utah Geological Survey Map 257DM, 2 plates, 13 p., scale 1:24,000, CD.