

GEOLOGIC MAP OF THE SOUTHERN PART OF THE STUDY AREA, NEVADA AND ARIZONA PLATE 2 of 4

Peter D. Rowley¹, Gary L. Dixon², Edward A. Mankinen³, Keith T. Pari⁴, Darcy K. McPhee³, Edwin H. McKee³, Andrew G. Burns⁴, James M. Watrus⁴, E. Bartlett Ekren⁵, William G. Patrick⁴, and Judith M. Brandt⁴

¹Geologic Mapping, Inc., New Harmony, UT, ²Southwest Geology LLC, Blackfoot, ID, ³U.S. Geological Survey, Menlo Park, CA ⁴Southern Nevada Water Authority, Las Vegas, NV, ⁵Private consultant, White Sulphur Springs, MT

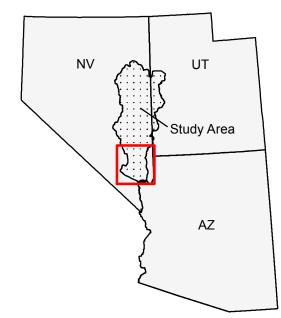




PLATE 2 OF 4

NEVADA AND ARIZONA

GEOLOGIC MAP OF THE SOUTHERN PART OF THE STUDY AREA,

Normal fault Solid where certain and location accurate, dashed

Quaternary normal fault Solid where certain and location accurate,

where approximately located, dotted where concealed; gueried if identity or existence uncertain. Ball on downthrown side.

dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

Mainly strike-slip fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed;

Detachment fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed:

Thrust fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed;

queried if identity or existence uncertain. Sawteeth on upper

Normal fault Solid where certain and location accurate, dashed

where approximately located, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Ball on downthrown side.

Detachment fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed;

Thrust fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed;

queried if identity or existence uncertain. Sawteeth on upper

queried if identity or existence uncertain. Hachures on upper plate.

Note: Many faults, primarily subsidiary faults, not shown in cross section.

Caldera margin Solid where certain and location accurate, dashed where approximately located, dotted where concealed. Ticks point into

Quaternary normal fault Solid where certain and location accurate,

Mainly strike-slip fault Solid where certain and location accurate, dashed where approximately located, dotted where concealed; queried if identity or existence uncertain. Arrows show relative motion.

queried if identity or existence uncertain. Hachures on upper plate.

queried if identity or existence uncertain. Arrows show relative motion.

(tectonically higher) plate.

tectonically higher) plate.

Strike and dip of bedding

Line of cross section

Transverse zone (Zone of possible disruption)

Federal No. 1

Subsidiary Faults

Contact Solid where certain.

Regional Faults

Field work done between 1990 and 2015

Supported by the Southern Nevada Water Authority

PEER-REVIEWED MAP Office review by Andrew Zuza and James Faulds Edited by Andrew Zuza, Jennifer Vlcan, Jack Hursh, Rachel Micande and James Faulds Compilation by Southern Nevada Water Authority Cartography and map production in ESRI ArcGIS v10.3 (ArcGeology v1. by Rachel Micander and Irene M Seelye First Edition, July 2017

Printed by Nevada Bureau of Mines and Geology © Copyright 2017 The University of Nevada, Reno. All Rights Reserved This map was printed on an electronic plotter directly from digital files. Dimensional calibration may vary between electronic plotters and X and Y directions on the same plotter, and paper may change size; therefore, scale and proportions may not be exact on copies of this map.

