

# Quaternary Fault and Fold Database of the United States

As of January 12, 2017, the USGS maintains a limited number of metadata fields that characterize the Quaternary faults and folds of the United States. For the most up-to-date information, please refer to the [interactive fault map](#).

## unnamed fault southwest of Wilkins (Class A) No. 1580

Last Review Date: 1998-10-06

*citation for this record:* Oswald, J.A., and Sawyer, T.L., compilers, 1998, Fault number 1580, unnamed fault southwest of Wilkins, in Quaternary fault and fold database of the United States: U.S. Geological Survey website, <https://earthquakes.usgs.gov/hazards/qfaults>, accessed 12/14/2020 02:36 PM.

<b>Synopsis</b>	This short, down-to-the-east, normal fault bounds east front of unnamed low hills 5 km southwest of Wilkins. The fault juxtaposes Quaternary alluvium against bedrock along the locally abrupt and well-defined range front. Reconnaissance photogeologic mapping of fault related features is the source of data. Trench investigations and studies of scarp morphology have not been conducted along the fault.
<b>Name comments</b>	Refers to a fault mapped by Dohrenwend and others (1991 #290) bounding east front of unnamed low hills 5 km southwest of Wilkins.
<b>County(s) and State(s)</b>	ELKO COUNTY, NEVADA
<b>Physiographic</b>	

<b>Topographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	<p>Good Compiled at 1:100,000 scale.</p> <p><i>Comments:</i> Location based on 1:250,000-scale map of Dohrenwend and others (1991 #290); mapping by photogeologic analysis of 1:58,000-nominal-scale color-infrared photography transferred directly to 1:100,000-scale topographic quadrangle maps enlarged to scale of the photographs.</p>
<b>Geologic setting</b>	This very short, down-to-the-east, normal fault bounds east front of unnamed low hills 5 km southwest of Wilkins (Dohrenwend and others, 1991 #290).
<b>Length (km)</b>	3 km.
<b>Average strike</b>	N23°W
<b>Sense of movement</b>	<p>Normal</p> <p><i>Comments:</i> Not studied in detail; sense of movement is inferred from topography.</p>
<b>Dip Direction</b>	NE
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	This fault juxtaposes Quaternary alluvium against bedrock along the locally abrupt and well defined range front (Dohrenwend and others, 1991 #290).
<b>Age of faulted surficial deposits</b>	Quaternary. The faults displace alluvium interpreted from photogeologic mapping to be Quaternary in age (Dohrenwend and others, 1991 #290).
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	<p>undifferentiated Quaternary (&lt;1.6 Ma)</p> <p><i>Comments:</i> Although timing of the most recent event is not well constrained, Dohrenwend and others (1991 #290; 1996 #2846) suspected a Quaternary time based on reconnaissance photogeologic studies.</p>

<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr  <i>Comments: A low slip rate is inferred from general knowledge of slip rates estimated for other faults in the region.</i>
<b>Date and Compiler(s)</b>	1998 John A. Oswald, Piedmont Geosciences, Inc. Thomas L. Sawyer, Piedmont Geosciences, Inc.
<b>References</b>	#290 Dohrenwend, J.C., McKittrick, M.A., and Moring, B.C., 1991, Reconnaissance photogeologic map of young faults in the Wells 1° by 2° quadrangle, Nevada, Utah, and Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-2184, 1 sheet, scale 1:250,000.  #2846 Dohrenwend, J.C., Schell, B.A., Menges, C.M., Moring, B.C., and McKittrick, M.A., 1996, Reconnaissance photogeologic map of young (Quaternary and late Tertiary) faults in Nevada, <i>in</i> Singer, D.A., ed., Analysis of Nevada's metal-bearing mineral resources: Nevada Bureau of Mines and Geology Open-File Report 96-2, 1 pl., scale 1:1,000,000.

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