

# 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 southeast of Double Mountain (Class A) No. 1560

Last Review Date: 1998-10-14

*citation for this record:* Sawyer, T.L., and Oswald, J.A., compilers, 1998, Fault number 1560, unnamed fault southeast of Double Mountain, 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 02:35 PM.

<b>Synopsis</b>	This short fault bounds the east front of an unnamed ridge to the southeast of Double Mountain. The fault juxtaposes Quaternary alluvium against bedrock, forms scarps and lineaments on Quaternary alluvium adjacent to the range front, and is marked by prominent topographic lineaments on Tertiary bedrock. 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 faults mapped by Dohrenwend and others (1991 #290) and Coats (1987 #2861) bounding the east front of an unnamed ridge southeast of Double Mountain.
<b>County(s) and</b>	ELKO COUNTY, NEVADA

<b>State(s)</b>	ELKO COUNTY, NEVADA
<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	Good Compiled at 1:100,000 scale.  <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.
<b>Geologic setting</b>	This short, poorly defined normal fault bounds the east front of an unnamed ridge to the southeast of Double Mountain (Dohrenwend and others, 1991 #290).
<b>Length (km)</b>	7 km.
<b>Average strike</b>	N16°W
<b>Sense of movement</b>	Normal  <i>Comments:</i> Not studied in detail; sense of movement is inferred from topography.
<b>Dip Direction</b>	E
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	The fault juxtaposes Quaternary alluvium against bedrock, forms scarps and lineaments on Quaternary alluvium adjacent to the range front, and are marked by prominent topographic lineaments on Tertiary bedrock (Dohrenwend and others, 1991 #290).
<b>Age of faulted surficial deposits</b>	Quaternary. The fault displaces 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>	undifferentiated Quaternary (<1.6 Ma)  <i>Comments:</i> Although timing of the most recent event is not well

	constrained, Dohrenwend and others (1991 #290; 1996 #2846) suggested a Quaternary time based on reconnaissance photogeologic studies.
<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 Thomas L. Sawyer, Piedmont Geosciences, Inc. John A. Oswald, Piedmont Geosciences, Inc.
<b>References</b>	#2861 Coats, R.R., 1987, Geology of Elko County, Nevada: Nevada Bureau of Mines and Geology Bulletin 101, 112 p., scale 1:250,000.  #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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