

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 east of Haystack Mountain (Class A) No. 1564

Last Review Date: 1998-10-14

citation for this record: Oswald, J.A., and Sawyer, T.L., compilers, 1998, Fault number 1564, unnamed fault east of Haystack 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 02:36 PM.

Synopsis	Group of short, discontinuous, range-front normal faults bounding the east side of the Rough Hills southward along the east front of Haystack and Mason Mountains. Faults juxtapose Quaternary alluvium against 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.
Name comments	Refers to faults mapped by Dohrenwend and others (1991 #290) bounding east side of the Rough Hills southward along east front of Haystack and Mason Mountains.
County(s) and State(s)	ELKO COUNTY, NEVADA
Physiographic	

Topographic province(s)	BASIN AND RANGE
Reliability of location	<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>
Geologic setting	Group of short, discontinuous, range-front normal faults bounding the east side of the Rough Hills southward along the east front of Haystack and Mason Mountains (Dohrenwend and others, 1991 #290).
Length (km)	18 km.
Average strike	N2°E
Sense of movement	<p>Normal</p> <p><i>Comments:</i> Not studied in detail; sense of movement is inferred from topography.</p>
Dip Direction	E
Paleoseismology studies	
Geomorphic expression	Faults juxtapose Quaternary alluvium against bedrock (Dohrenwend and others, 1991 #290).
Age of faulted surficial deposits	Quaternary. The fault displaces alluvium interpreted from photogeologic mapping to be Quaternary in age (Dohrenwend and others, 1991 #290).
Historic earthquake	
Most recent prehistoric deformation	<p>undifferentiated Quaternary (<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>

Recurrence interval	
Slip-rate category	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>
Date and Compiler(s)	1998 John A. Oswald, Piedmont Geosciences, Inc. Thomas L. Sawyer, Piedmont Geosciences, Inc.
References	#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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