

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 faults northwest of Giroux Wash (Class A) No. 1235

Last Review Date: 2000-10-26

citation for this record: Redsteer, M.H., compiler, 2000, Fault number 1235, unnamed faults northwest of Giroux Wash, 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 02:16 PM.

Synopsis	This unnamed group of northeast- and north-trending, down-to-the-east curvilinear faults juxtapose Quaternary alluvium against Paleozoic bedrock. Bedrock escarpments extend more than 10 km on steep bedrock slopes that coincide with an abrupt change in elevation along the eastern side of an unnamed ridge, 7 to 8 km west of Riepetown, Nevada. Reconnaissance, photogeologic mapping is the source of data. Trench investigations and detailed studies of scarp morphology have not been completed.
Name comments	Refers to series of curvilinear faults mapped by Dohrenwend and others (1992 #2480) located 4-5 km west of Giroux Wash and White River Wash, that are semi-parallel to these stream channels in the western Egan Range.
County(s) and	

County(s) and State(s)	WHITE PINE COUNTY, NEVADA
Physiographic 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 (1992 #2480). Mapping based on photogeologic analysis of 1:24,000-scale color aerial photography supplemented with 1:60,000-scale black-and-white aerial photography, transferred to 1:62,500-scale topographic maps and photographically reduced and transferred to 1:250,000-scale topographic maps, and subsequent 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	This unnamed group of faults lies within the Egan Range.
Length (km)	10 km.
Average strike	N11°E
Sense of movement	Normal
Dip Direction	E
Paleoseismology studies	
Geomorphic expression	<p>This unnamed group of faults is characterized by a curved series of north- and northeast-trending scarps that are concave to the east in map view. Although primarily down to the east, Dohrenwend and others (1992 #2480) show a down-to-the-west fault that suggests a horst structure on the uplifted fault block. The faults are 4-5 km west of Giroux Wash and White River Wash, and are semi-parallel to these stream channels. Fault juxtapose Quaternary alluvium against bedrock, and extend more than 10 km on steep bedrock slopes that coincide with an abrupt change in elevation along the east side of an unnamed ridge (on the west).</p>
Age of faulted surficial	Paleozoic and Quaternary. Dohrenwend and others (1992 #2480) show this group of faults as juxtaposing bedrock against

deposits	Quaternary alluvium, but no scarps on surficial materials.
Historic earthquake	
Most recent prehistoric deformation	undifferentiated Quaternary (<1.6 Ma) <i>Comments:</i> Mapping by Dohrenwend and others (1992 #2480) indicates fault is of Quaternary age.
Recurrence interval	
Slip-rate category	Less than 0.2 mm/yr <i>Comments:</i> Low slip-rate category is assigned on the basis of poor geomorphic preservation, general lack of mapped fault scarps, and relative inactivity of similar distributed faults in the Basin and Range province.
Date and Compiler(s)	2000 Margaret Hisa Redsteer, U.S. Geological Survey
References	#2480 Dohrenwend, J.C., Schell, B.A., and Moring, B.C., 1992, Reconnaissance photogeologic map of young faults in the Ely 1° by 2° quadrangle, Nevada and Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2181, 1 sheet, scale 1:250,000.

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