

# 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](#).

## Escalante Desert faults (Class B) No. 2488

Last Review Date: 1999-10-01

### Compiled in cooperation with the Utah Geological Survey

*citation for this record:* Black, B.D., and Hecker, S., compilers, 1999, Fault number 2488, Escalante Desert faults, 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 02:54 PM.

<b>Synopsis</b>	Poorly understood Holocene faults(?) at the north end of the Escalante Desert near Thermo and Desert east of the Wah Wah Mountains faults [2435]. The faults are characterized by several short northeast-trending lineaments that may be liquefaction-related features rather than deep-penetrating faults. Owing to questions about their origin, we categorize these faults(?) as Class B structures.
<b>Name comments</b>	<b>Fault ID:</b> Refers to fault number 9-13 of Hecker (1993 #642).
<b>County(s) and</b>	BEAVER COUNTY, UTAH

<b>State(s)</b>	BEAVER COUNTY, UTAH
<b>Physiographic province(s)</b>	BASIN AND RANGE
<b>Reliability of location</b>	<p>Good Compiled at 1:250,000 scale.</p> <p><i>Comments:</i> Mapped or discussed by Rowley (1978 #4563), Anderson and Bucknam (1979 #518), Ertec Western, Inc (Schell, 1981 #4598), and Fugro National, Inc. (1981 #4983). Fault traces from 1:62,000 scale mapping of Rowley (1978 #4563).</p>
<b>Geologic setting</b>	<p>Lineaments possibly mark several short northeast-trending faults at the northern edge of the Escalante Desert east of the Wah Wah Mountains faults [2435]. Unconsolidated deposits in the area are mainly lake sediments and alluvium. Hecker (1993 #642) indicates that the lineaments may be liquefaction-related features rather than faults.</p>
<b>Length (km)</b>	7 km.
<b>Average strike</b>	N28°E
<b>Sense of movement</b>	Normal
<b>Dip Direction</b>	NW; SE
<b>Paleoseismology studies</b>	
<b>Geomorphic expression</b>	<p>Possible zone of short northeast-trending faults mapped by Rowley (1978 #4563) as cutting alluvium that is topographically below the Bonneville shoreline, but also as covered by (reworked?) Bonneville deposits. Fugro National, Inc. (1981 #4983) mapped two of the faults, defined in part by mounds of hot spring deposits, as cutting a mixed unit comprised of Bonneville deposits and young alluvium. The faults appear as lineaments without relief on Ertec Western, Inc.'s (Schell, 1981 #4598) map and weren't included in mapping of fault scarps by Anderson and Bucknam (1979 #518). Owing to questions about their origin, we categorize these faults(?) as Class B structures.</p>
<b>Age of faulted surficial deposits</b>	<p>Holocene(?). Rowley (1978 #4563) mapped the faults as cutting alluvium that is topographically below the Bonneville shoreline, but also as covered by (reworked?) Bonneville deposits. Fugro</p>

	National, Inc. (1981 #4983) mapped two of the faults, defined in part by mounds of hot spring deposits, as cutting a mixed unit comprised of Bonneville deposits and young alluvium.
<b>Historic earthquake</b>	
<b>Most recent prehistoric deformation</b>	latest Quaternary (<15 ka) <i>Comments:</i>
<b>Recurrence interval</b>	
<b>Slip-rate category</b>	Less than 0.2 mm/yr
<b>Date and Compiler(s)</b>	1999 Bill D. Black, Utah Geological Survey Suzanne Hecker, U.S. Geological Survey
<b>References</b>	<p>#518 Anderson, R.E., and Bucknam, R.C., 1979, Map of fault scarps in unconsolidated sediments, Richfield 1° x 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 79-1236, 15 p. pamphlet, 1 sheet, scale 1:250,000.</p> <p>#4983 Fugro National Inc., 1981, MX siting investigation, preliminary geotechnical investigation, proposed operational base site, Milford, Utah, volume I—Synthesis: Technical report to U.S. Air Force, under Contract FN-TR-44, 77 p.</p> <p>#642 Hecker, S., 1993, Quaternary tectonics of Utah with emphasis on earthquake-hazard characterization: Utah Geological Survey Bulletin 127, 157 p., 6 pls., scale 1:500,000.</p> <p>#4563 Rowley, P.D., 1978, Geologic map of the Thermo 15-minute quadrangle, Beaver and Iron Counties, Utah: U.S. Geological Survey Geologic quadrangle Map GQ-1493, scale 1:62,000.</p> <p>#4598 Schell, B.A., 1981, MX siting investigation, faults and lineaments in the MX siting region, Nevada and Utah: Long Beach, California, report no. E-TR-54 for U.S. Air Force, volume I, 77p.; volume II, variously paginated, scale 1:250,000.</p>

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