

0600 0004

Black Horse

(84) Item 4

ES-13. MILLER MOUNTAIN

General location: Southeastern flank of Miller Mountain.

Coordinates: lat 38°01' N., long 118°09' W.

Land classification: Public domain.

Area: 1 km².

Accessibility: 2 km north of U.S. Highway 6 and approximately 11 km east of State Highway 10 (not shown on fig. 8).

Remoteness: 11 km east of Basalt, and 21 km west of Coaldale (population 35).

Geologic setting: The pluton is quartz monzonite and intrudes the Precambrian and Cambrian Campito Formation and is overlain unconformably by Tertiary welded ash-flow tuffs. Other rock units include the Cambrian Poleta Formation and Cambrian marble and siliceous hornfels.

The structure consists of northeast-trending high-angle normal faults.

Hydrologic setting: The pluton is in the Columbus Salt Marsh ground-water system and closed drainage basin. The nearest discharge is 11 km east and the water is unused.

Aeromagnetic expression: A low-amplitude positive anomaly, at the northern margin of a crescent-shaped negative anomaly, is associated with the small exposure.

Mining activity: A diatomite mining operation is located 2 km south of intrusive.

Comment: The intrusive body is located 20 km north of the Death Valley-Furnace Creek Fault Zone and is within the Nevada seismic zone.