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Item 19

Rock Hills

ES-14. CANDELARIA HILLS

General location: Southeastern flank of the Candelaria Hills.

Coordinates: Two outcrops located at lat 38°08' N., long 117°58' W; lat 38°09' N., long 117°57' W.

Land classification: Public domain.

Area: 1 km² (cumulative).

Accessibility: One outcrop is approximately 5 km southwest of U.S. Highway 95; the other is intersected by U.S. Highway 95.

Remoteness: 65 km west of Tonopah (Nye County, population 1,716) and 15 km northwest of Coaldale (population 35).

Geologic setting: The granitic intrusive is quartz monzonite that intrudes the Ordovician Palmetto Formation, composed of shale, chert, limestone, and quartzite. The predominant structure includes northeast- and northwest-trending high-angle normal faults and minor thrust faults. The intrusive body is located within the Walker Lane Fault Zone and is 35 km northeast of the northern end of the Death Valley-Furnace Creek Fault Zone.

Hydrologic setting: The pluton is in the Columbus Salt Marsh ground-water system and closed drainage basin. The nearest discharge is 1 km south and the water is unused.

Aeromagnetic expression: The two small exposures occur on the northern and southwestern flanks of the northwest-trending nose of a regional high-amplitude positive anomaly caused in part by an unknown buried source and in part by andesitic tuffs and flows and associated extrusive rocks.

Comments: The intrusive body is located within the Walker Lane Fault Zone, is approximately 35 km northeast of the Death Valley-Furnace Creek Fault Zone, and is within the Nevada seismic zone.