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GEOLOGIC MAP OF DAWLEY CANYON PEGMATITE AREA, ELKO COUNTY, NEVADA, RELEASED

Director W. E. Wrather of the Geological Survey today announced the release in open file of a geologic map of the Dawley Canyon pegmatite area, Ruby Mountains, Elko County, Nevada.

This map covers an area of about 3 square miles on the east slope of the Ruby Mountains. More than 350 pegmatite dikes have been mapped in the area, and beryl has been found in small quantities in at least 100 of these dikes. One mine in the area produced a small quantity of sheet muscovite during World War II.

The open-file map, entitled "The Dawley Canyon pegmatite area, Ruby Mountains, Elko County, Nevada," by J. C. Olson, R. E. Burns, and E. N. Hinrichs may be examined at the U. S. Geological Survey, Room 1033 (Library), General Services Building, Washington, D. C.; and at the office of Dr. Jay A. Carpenter, Director, Nevada Bureau of Mines, Reno, Nev.

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Hinrichs, E. Neal The pegmatites of the Emeryton-Thiel mine, Elko Co. Nev. Open file

Beryl bearing pegmatites cut Prospect Mtn quartzite and with associated gneiss (orthogneiss) Beryl 2.16%  
Dikes to range front ft.

It covers an area 300 by 500 feet in Dawley Canyon, on the east side of the Ruby Mountains.

The report deals with the mineralogy and paragenesis of three pegmatites that intrude the Prospect Mountain quartzite of Lower Cambrian age and is accompanied by a geologic map on a scale of 1/240, prepared by E. Neal Hinrichs, J. C. Olson, and R. E. Burns.

Beryl crystals, 5 millimeters or less in diameter, are disseminated in the various zones of the pegmatites. Muscovite and biotite granites of late Jurassic or early Tertiary age intrude the schist and quartzite near the pegmatites. Textural and boundary relationship between the pegmatites and the granites indicate a close genetic association.