

## A. BERYL AND MICA PEGMATITE IN THE HAYSTACK RANGE, GOSHEN COUNTY

Location

The prospect visited is on the east side of the Haystack Range near one of the dry tributaries of Cottonwood Creek. Its approximate location is Sec.1, T.27 N., R.65 W.

The prospect is easily reached by automobile, by following U.S. Highway 26 east from Guernsey, Wyoming, to the Cottonwood Canyon road. Follow this road, which is marked "A.H. Heller & Sons," north for eleven and one-half miles to the prospect.

Thomas Madden owns the property upon which the deposit is located. The name of the prospect together with the name of the claimant, or former operator is unknown to this writer. At present the prospect is abandoned.

The writer visited the prospect on October 28, 1951, for a brief reconnaissance examination.

Geology and Mineralization

It is the belief of this writer that this individual prospect has not been described in previous geologic literature, although most of the pegmatites in this area are described in the USGS Professional Paper 227.

The pegmatite is a rudely cigar-shaped body that is approximately 275 feet long and 90 feet wide. It trends N.85°E. and dips 80°N. The body is slightly concave to the south and bifurcates at its eastern end. The pegmatite is concordant to the foliation of the pre-Cambrian Whalen schist, and several patches of the Whalen schist are found within the pegmatite itself.



The mass of the pegmatite may be considered a graphic granite. Albite is the most abundant mineral present, but a considerable amount of quartz and perthite is present too.

Beryl occurs in white to a light yellowish-green crystals that range in size from  $\frac{1}{4}$  to 1 inch in diameter. The average size is less than  $\frac{1}{2}$  inch which is considered too small for a hand cobbing recovery. The visual average of beryl content of the pegmatite does not appear to be greater than one percent.

Muscovite comprises about 20 percent of the pegmatite and occurs as small books averaging 2 to 3 inches broad. Most of it is crumpled, ruled, and at best suitable only for scrap mica. A very small quantity may be considered as punch quality.

Accessory minerals noted are: black tourmaline, green apatite, and titanite.

The only development work is a 45 foot adit driven, by the U.S. Bureau of Mines (exact date unknown, but believed to be in 1943-44), through the pegmatite into the Whalen schist. No record is available of any production of beryl or muscovite.

Signed

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Geol. Surv. of Wyo.  
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