

NOTES ON EXAMINATION OF PROSPECTS IN SOUTHEASTERN PART OF TOWNSHIP 28-65.

Examination Made July 2, 1923.

Crystal Palace Mica Claim contained an open cut about 50 feet long and 5 to 7 feet wide, following a pegmatite dike consisting of feldspar and mica of which the mica appears to consist of 10% of the rock mass. This mica is a very good grade of muscovite. A great many bogs occur in <sup>large</sup> sheet 3 x 4 inches and even larger can be obtained.

Prices of sheet mica at the present time are as follows:

Per pd. 2 x 2 inches, 30 cents,

2 x 3 " 75 "

3 x 4 " \$1.25

The dike can be traced for some distance southwest and it is

believed that development of this mica should be commercially profitable.

Mica not cut into sheets could be ground or sold as group mica, market prices of this prospect being as follows:

Scrap \$17.00 to \$20.00 per net ton

Ground 65.00 to 125.00 per ton

Roofing grade \$35.00 to \$70.00 per ton.

This prospect is located in the NE $\frac{1}{4}$  of Section 34. Various

places on Section 35, the occurrence of similar combined dikes carrying mica were noted and it is evident that the locality has commercial possibilities for the production of mica.

The Vulcan Claim is located in the NE $\frac{1}{4}$  of Section 26 and has a shaft 126 feet deep which at the present time contains considerable water. Material on the dump shows that this shaft was sunk in a large body of an arsenical pyrite of iron, sample taken by me and assayed by the Wyoming University gave the following analysis:

Iron.....	29.91%
Arsenic.....	40.03%
Sulphur.....	17.08%
Insoluble (SiO <sub>2</sub> ).....	12.98% by dif.