

# State Department of Geology and Mineral Industries

702 Woodlark Building  
Portland, Oregon

## Carpathia Mining Co.

Lower Applegate area.

Winchell (14:235) reported as follows:

"The Carpathia Mining Company controls claims on the upper part of Powell creek which contain some low grade iron ore. The northeast corner of the Carpathia group is at a small reservoir on the creek at an elevation of 2000 feet as measured by barometer. The east end line runs S. 15° W.; the ore outcrops about a quarter mile from the northeast corner near the east center at an elevation of about 2500 feet. For the most part the outcrop is a ferruginous quartzite; in places this varies to a low grade iron ore. There has been no development work whatever done, and it is impossible to state what would result from such work, though the conditions warrant a limited amount of development. A sample of the iron-bearing quartzite from this locality gave the following results on analysis:

Composition of Ferruginous quartzite From Powell Creek  
(S. W. French, analyst.)

Silica, $\text{SiO}_2$ .....	77.74
ferric iron, $\text{Fe}_2\text{O}_3$ .....	11.16
ferrous iron, $\text{FeO}$ .....	0.96
Other oxides.....	10.14

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100.00

By elimination of silica this rock may grade into iron ore. A gradation to low grade iron ore is known to occur at this locality; higher grade ones may exist here.

References: Winchell 14:235 (quoted)