

State Department of Geology and Mineral Industries

702 Woodlark Building
Portland 5, Oregon

BUCKHORN MANGANESE

Douglas Co.
Riddle Dist.

Visit was made with Ben Hilton, Warren Gammill and Vern McMichaels, locators of the property and Al Boerner, Hanna Coal & Ore Company geologist.

Location: Sec. 25, T. 32 S., R. 5 W. Mine is located 2.3 miles up Quines Creek road and 1.3 mile to right up Bull Run Creek. One of five claims, also in sec. 30 & 31.

Geology: The area is underlain by argillite and quartzite of the Jurassic Galice formation. Manganese minerals have replaced (incompletely) the country rock, possibly along a shear zone.

The usual assortment of manganese oxides and hydroxides are present, principally pyrolusite and manganite with some rhodonite.

Two trenches have been dug into the manganese deposit. Not enough work has been done to delineate any high-grade zone. There is probably about 100 tons of ore exposed.

One sample of picked high-grade was taken.

The presence of rhodonite and unreplaced country rock in the most deeply altered zone of the deposits does not appear to be favorable for a very deep ore zone. Development should be directed at delineating the areal extent of the zone by trenching with a dozer and a test pit should be sunk on the richest part of the zone. If this development is favorable, more testing of the depth should be done. The work should be confined to the principal zone exposed. None of the several other cuts showed sufficient mineralization to warrant any further work.

BUCKHORN MANGANESE (continued)

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	<u>Fe</u>	<u>Mn</u>	<u>SiO₂</u> (Insol.)
PG-235 A	7.66	14.37	72.24
(sampled by Hilton) B	5.85	25.12	36.76
PG-270	9.9	15.44	46.14
(Schafer)			
picked high-grade			

Visited: Aug. 2, 1955.

Report written: Oct. 6, 1955. By Max Schafer

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