

State Department of Geology and Mineral Industries

MILL CREEK MANGANESE PROSPECT

1069 State Office Building
Portland 1, Oregon

Baker County
Upper Burnt River District

Location: On the south slope of Dooley Mountain in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$, Sec. 17, T. 12 S., R. 40 E. about $\frac{1}{4}$ mile up Mill Creek from Highway 7.

Owners: George J. Beale, C. A. Thomas, Knute Bethel.

General: The property consists of one unpatented lode claim located in 1954. Development work, most of which was done during 1958, consists of an opencut about 30-feet long, 20-feet deep at the face and 4-feet wide.

The country rock is glassy to fine grained banded rhyolite. The opencut explores a well defined fault zone 3 $\frac{1}{2}$ to 4-feet wide trending N 40°W and dipping 75° - 80°W. At the end of the opencut the fault zone has been offset to the east about 8-feet. The rhyolite, particularly in and near the intersection of the two faults, is intensely broken and altered. Rock fragments in local breccia pockets are re-cemented by manganese oxides. The manganese mineralization appears to be confined largely to a pipe-like zone less than 15-feet in diameter. The small lateral dimensions of the mineralized zone plus suspension of the Government manganese purchase program has discouraged further exploration by the owners and the prospect has remained essentially idle since late 1958.

Report by Howard C. Brooks March 24, 1961
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