

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

Gold Prospect
Cable Cove District
Grant County

GRAND CENTRAL MINE

Location: Sec. 15, T. 8 S., R. 36 E. near the head of Bull Creek, Cable Cove Mining district, Grant County, Oregon. The prospect is about one mile west of and on the opposite side of the divide from the old California and Imperial mines for which the Cable Cove district is most noted. An unimproved road 7.6 miles in length extends up Silver Creek and along the northern periphery of Cable Cove to the crest of the divide then descends along Bull Creek to the prospect. Total distance to Sumpter is 13.4 miles.

Area: One unpatented lode claim—the Grand Central.

Owner: Albert Morin, Sumpter, Oregon

Production: None recorded.

Development

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History: The distribution of workings is shown on the attached sketch. According to Morin most of this work was done by Albert Heisler many years ago. Morin acquired the property in about 1956 and has since cleaned out and extended No. 2 Adit.

Geology: The country rock is granodiorite. A northeast-trending shear zone of unknown width extends through the two opencuts and caved stope between Adits No. 1 and No. 2. Roughly parallel fracture zones exposed by Adits 3 and 4 and by the open-cut farther west may be parts of the same shear zone. More work must be done to determine this.

Adit No. 2 crosscut, trending $N 72^{\circ} W.$ for 230 feet, ends in the shear zone. What is presumed to be a branch of the shear zone is exposed between points 145 feet and 170 feet from the portal. The hanging-wall of the latter is a smooth plane which as shown by the drift along it curves from $N 15^{\circ} W.$ to $N 15^{\circ} E.$ with a dip of about $60^{\circ} W.$ At the time of visit Morin was driving north-northeast from the end of Adit No. 2 to explore the supposed junction.

The sheared granodiorite in Adits 2, 3, and 4 and in the surface exposures between Adits 1 and 2 has been

kaolinized and limonitized between the closely spaced fractures and many of the fractures are filled with gouge. Small lenses and stringers of quartz occur in a few places. The quartz locally contains a little massive pyrite and minute particles of pyrite are disseminated through the adjacent granodiorite. Samples of the sulphide-bearing quartz reportedly have assayed up to \$20.00 per ton in gold and silver.

Between the portal and 145 foot point, No. 2 Adit cross-cuts several narrow fracture zones of northeastward trend. The largest noted was about 3 feet wide. The granodiorite in the fractured zones has been mildly kaolinized and limonitized and locally minute amounts of pyrite are visible.

The broad shear zone at the southwest end of the map area is well exposed by a recent bulldozer cut. Very little quartz or sulphide minerals were noted.

Date of Exam: September 15, 1961
Report by: Howard C. Brooks