VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
BAKER FIELD OFFICE
1831 FIRST ST., BAKER, OREGON 97814-3442 PHONE (503) 523-3133

Lower Burnt River
Baker County, Oregon

Lower Grandview Mine (Au, Talc)
Other Names: Schwayder Mine, Lucky Boy Mine
Report by: Mark L. Ferns
October 23, 1986

Owners: Art Cheatum, Dave Henley, Cameron Avery.
Location: SE¼ Sec. 6, NE¼ Sec. 7, T.14S., R.37E, South of Unity, Oregon on the north facing slope ot Bullrun Mountain.
History: For early history see Wagner's report on the Lucky Boy Mine. The property was held by Kenneth Grabner after the Leonhardy-Vinson operation in the late 1940's. The property was acquired by Art Cheatum in the late 1970's, who subsequently discovered the ore shoot to the west of the previous operations. Cheatum and his partners have been annually producing a small amount of gold since 1978.
Development: The property was first opened by a crosscut of approximately 140 feet in length from which a small amount of ore was removed in 1948. The main workings are an approximately 130' crosscut tunnel at 5480' elevation and a newly driven 120' crosscut tunnel at 5400' which accesses a shaft sunk by Cheatum on the ore shoot. The shoot reportely measures 4 feet in width and 70 feet in length..
Geology: The general geology and mineralization in the immediate mine area is well described in a Masters Thesis by Greg Caffrey, out of Washington State. The workings are on a shear zone in massive serpentinite that parallels the contact between gray wackes of the Jurassic Weatherby formation and a mass of serpentinized harzburgite. The shear zone is intruded by two altered dikes that presumably are related to the Late Eocene-Early Oligocene Grouse Creek Stock (Caffrey, 1982). The shear zone is about 80 feet in width and has a general strike of N65E and steep easterly dip.

Gold mineralization within the shear zone is concentrated in a 4-5 foot wide limonitic vein comprised of sheared talc, gouge, and silicified serpentinite that runs along the eastern margin. According to Cheatum, the best ore generally occurs where east striking talc seams intersect the vein. The gold is free and little quartz is seen. Chalcopyrite is also reported from the vein. According to Cheatum, most of the shear zone will pan gold and much of it will run 1/12 oz. of gold per ton. The gold is said to occur along limonitic fractures and joints in the serpentinite. The gold is relatively pure and will run about 850-880 fine.

Rusty talc is observed to occur in sheared seams throught out the 4' vein. Within the vein, massive white or blue talc is an indicator of higher gold values.

Talc is also encountered in the dump of the Grabner adit on the east margin of the shear zone. A chlorite dike is exposed at the portal with talc alteration along the contact with serpentinite. Dump material includes chlorititic dike material that grades into a massive blue talc that appears suitable for carving. Neither of the talc occurrances appear to be of any significant volume.

According to Caffery (1982), nearly pure foliated talc, massive steatized mottled serpentinite, and massive colloform vein quartz occur associted with this dike in two prospect pits up the slope of Bullrun Mountain to the southwest along the strike of the mineralized shear.

Economics: The property is mined exclusively for gold with the ore treated in a small mill on the property. Ore is taken from the mine with a small Kubota tractor and loaded into a small dump truck and trucked to the mill where it is stockpiled. The mill has a reported capacity of 1-2 tons per hour.

Cheatum, his two partners, and a hired man work the mine on a seasonal basis; usually operating into the first week of November before the hard freeze forces them out. Most of the last summer was spent in driving the new cross-cut to intersect the lower workings, so but a little ore has been mined this season.

Production records are not available, but it was stated that an average year will yield several hundred ounces of gold. Assays are by panning only. If it pans, they will mill it.

Report by	Mark L. Ferns
Date of visit	October 23, 1986
Date of report	October 27, 1986
Informant	Art Cheatum
References	Wagner (1948), Caffrey (1982)