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# State Department of Geology and Mineral Industries

Report by: Ray C. Treasher  
Date: May 26, 1943.

702 Woodlark Building  
Portland, Oregon

Grants Pass area  
Josephine County

## JONES MILL (chrome)

A Small mill was built to concentrate chrome ores from the southwestern Oregon area. The capacity is small. Tailing losses are high. A marketable concentrate is produced.

Owners: Baker Brothers and Jones, Grants Pass, Oregon.

Location: sec. 23, T. 36 S., R. 5 W., on Bloody Run Creek, about 4 miles east of Grants Pass on the north side of the river.

History: The mill was built of used materials, primarily to concentrate ores from Baker Brothers and Jones property in southwestern Jackson County. Construction was started late in 1942, and by the last of April, 1943, was in operation.

Mill: Ore from a bunker is fed into a Hendy Blake-type crusher which has 4 inch by 6 inch plates and which crushes to about 3/8 inch. The crushed ore is fed into a small Herman ball mill. It has an inside grid and an outside screen of 20 mesh (?), and turns at 30 r.p.m. Unclassified undersize is fed to a jig (size and make unknown). Jig products are;-- concentrate, that goes to a stock pile; tailings, that go to the dump. The tailings flume has a 60-mesh screen at one point. The undersize goes directly to the stockpile. Two men handle about 18 tons of ore one shift per day.

A concentrating table has been used, but it was taken out of the circuit because it was too slow.

Informant: RCT. 5/26/43

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## JONES MILL (chrome)

The mill was built to handle some 100 tons of ore that was rejected at the stockpile as being too low in grade. Various equipment was tried, - including a concrete mixer as a concentrator. The present mill operates without any classifier in the circuit.

The Blake-type crusher is very small. The ball mill seems to be rotated at a rather high speed. The table is a honey. The riffles were replaced with 1/2 inch wide strips that stand 1/2 inch above the table and when in operation, the "gullies" filled with ore and waste and the rest of the material went to the dump.

The concentrate is not a clean product by any means. As would be expected from a circuit without some sort of classification, the tails have a high percentage of fine chrome. The operator has attempted to overcome this deficiency by putting a 60 mesh screen in an open section of flume bottom and rushing the undersize to the stockpile. This fine chrome contains about 25 percent waste. Both the undersize and the tailings were panned and both show lots of waste in the fine chrome going to the stockpile, and lots of chrome in the tailings going to the dump. I doubt if the recovery is over 65 percent. The mill owners advertize for custom ores !!

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