

HATFIELD LIMESTONE

Nonpariel - Bonan

From Hodge report on limestone:

"The deposit lies in the SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 31, T. 27 S., R. 4 W. The near railroad point is Roseburg, distant 10 miles by practically level road, of which 6 miles is paved.

"The exposure in this locality does not show any large amount of limestone except some large blocks that have been quarried and some in place, largely hidden by overburden. The stone has a light fawn color, with calc-filled fractures, and is similar to that on the nearby but larger Oden-Hatfield deposit. The strike of the lens is N. 75° East.

"There is another outcrop of limestone in the fork of the South Deer Creek, near the Roy Hatfield house, but the amount of stone is small and operating conditions unfavorable."

The Hatfield deposit in SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 31, T. 27 S., R. 4 W., is a very small affair and represents a small pod, or slump from a larger mass. Apparently, only a small quantity was removed. The large, quarried blocks mentioned in the Hodge report are from the Oden-Hatfield deposit and were brought here for sawing.

A marble saw was operated here about 1889-1890 when limestone was quarried at Oden-Hatfield and sawed here for use in the Douglas Co. Court House at Roseburg. There is no record, or rumor of any other work on either of these deposits. Several slabs and small fragments of sawed marble were found. The sawing plant is completely removed except for a few rotting timbers.

The sawed pieces are interesting as an example of weathering. The dark gray limestone has a 1/16 inch outer zone of bleached, weathered rock very noticeable when the specimen is broken. The rough, unsawed marble is not so weathered. The sawed pieces were picked out of the soil and the weathered zone may be the result of organic acids acting on a relatively smooth surface--while the unsawed, large blocks are not in contact with the organic acids.

Ray C. Treasher
Field Geologist
Sept. 14, 1940

State Department of Geology and Mineral Industries

1069 State Office Building
Portland 1, Oregon

Memo Report

J. HATFIELD LIMESTONE

Douglas County
Umpqua (Unclassified)

Owner: Julian Hatfield.

Location: NW $\frac{1}{4}$, NE $\frac{1}{4}$ sec. 22, T. 28 S., R. 5 W., about $\frac{1}{4}$ mile southwest of the Whitsett limestone occurrence southeast of Roseburg.

Geology: This occurrence is one of the narrow lens shaped limestone masses in the northeast trending belt southeast of Roseburg in Douglas County. It is exposed on a south facing slope in a roughly triangular shape. Outcroppings are not entirely continuous but the whole body is about 100 feet wide and 150 feet long. The apparently steeply dipping mass strikes N. 35° E. and is aligned with the Whitsett limestone occurrence just to the northeast.

Coarse to medium-grained graywacke sandstones outcrop on either side and some may be interbedded with the limestone.

The limestone is dark gray with lighter veinlets of crystalline calcite that has filled fractures in the rock. Fossil fragments and small rounded spots that resemble microfossils can be seen in some parts of the limestone.

A composite chip sample (SG-84, 3/27/58) from the whole outcrop shows a 93.42% CaCO_3 content.

Visited: March 26, 1958.

Report by: N. V. Peterson--4/15/58.
