

HATFIELD LIMESTONE

Nonpareil-Bonanza Area

Hodge 38 gives the following description:

"The deposit lies in the SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec. 31, T.27 S., R.4 W. The nearest 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 calcite-filled fractures, and is similar to that on the nearby but larger Oden-Hatfield deposit. The strike of the lens is N. 75° E.

"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 $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 31, T.27 S., R.4 W., 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 to the Hatfield locality. A marble saw was operated about 1889-1890 when limestone was quarried at Oden-Hatfield and sawed for use in the Douglas County Courthouse at Roseburg. There is no record 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 rotten 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.

Informant: Treasher 40.

Ref: Hodge, 40 (Section III Northwest Limestones, Vol.1, Part 1, p.277)

Hodge 38 described the deposit as follows:

"This lies in the NW $\frac{1}{4}$ sec.33, T.27 S., R.4 W. It is 11 miles by excellent road from Roseburg, or 1 mile east of the Hatfield locality.

"The County Assessor's maps in Roseburg (as of January 1937) show the deposit to be on land belonging to R. V. Hatfield, but the name of Herman Oden, owner of adjoining land, has in some manner become connected with it.

"The limestone is of a good grade, pale fawn in color, with seams of white calcite. It is massive and can be quarried in large blocks for dimension stone of monuments. In past years this stone has been quarried and sawn, but no such work has been done recently and only relics of the operations can be found.

"The lens of limestone strikes N.75° E. and dips almost vertically. It is 25 feet wide and can be followed for 225 feet along the strike. Former work was all done on the western end, where a pit 30 by 30 feet in area with a 25-foot face remains.

"The outcrop is at an elevation of 1045 feet, or only a few feet above the valley floor of the south fork of Deer Creek. The south side of the lens is in contact with fine-grained sandstone while the contact on the north side is a red ferruginous chert. The lens pinches out toward the east end, judging by surface indications."

It is reported that Mr. Roy Hatfield has located other outcrops of limestone northeast of this deposit. (For reference to quarrying of structural marble, see report on Hatfield deposit.)

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