

State Department of Geology and Mineral Industries

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STATE DEPT. OF GEOLOGY  
& MINERAL INDS.

1069 State Office Building  
Portland 1, Oregon

DOLE LIMESTONE OCCURRENCES

Jackson County  
Gold Hill District

Explanation: The owners requested examination of limestone occurrences on their property to determine possible commercial value. The small size and low grade of the occurrences precludes their commercial use.

Owners: Mr. & Mrs. Edward Dole, Rt. 1 Box 346, Gold Hill. The land is privately owned.

Location: The occurrences examined lie in the NW $\frac{1}{4}$  of Sec. 13, T. 37 S., R. 4 W. The road up Middle Fork Foots Creek passes within  $\frac{1}{2}$  mile of the occurrences. Dole's house is 5 miles from Highway 99; and it is 5 miles farther to the cement plant at Gold Hill.

General geology: The area is underlain by metasedimentary and meta-volcanic rocks assigned to the Applegate group by Wells and others (1949). Metasedimentary rocks adjacent to the limestone are quartzite and argillite.

Limestone outcrops: The first cropping of limestone visited is on the hillside about 500 feet west of Dole's house at 1680 (altimeter) feet elevation. The dark gray, hard, apparently siliceous body of impure limestone crops out over 18 feet maximum width and about 45 feet length. The apparent strike is N. 17° E. with 75° E. dip. A chip sample of the rock (SG-202, P-23193) assayed 31.05 percent CaCO<sub>3</sub>.

About 400 feet N. 20° W. at 1730 (a) feet elevation a small body of banded somewhat friable limestone is exposed. The outcrop measures about 3 feet in diameter. The banding strikes N. 25° E. and dips 82° W. The body may, however, not be in place. A grab sample (SG-203, P-23194) assayed 95.51 percent CaCO<sub>3</sub>.

## Dole Limestone Occurrences

- 2 -

The largest amount of limestone is composed of three bands located about 1,000 feet northwest of the other occurrences. The area extends from a point on the ridge, 2,075 feet elevation on the section line between 12 and 13, south for about 250 feet. It is quite brushy and the outlines and relationships of the limestone exposures were not clearly seen. The western exposure is 8 to 12 feet wide and about 250 feet long. It strikes N. and dips 80° E. It is separated from a lens-shaped body about 30 feet wide and 200 feet long lying to the east by 10 to 15 feet of fine-grained metasedimentary rocks (argillite). Another 10-foot plus wide belt of interbedded argillite separates the intermediate body from a lens about 40 feet wide lying east of the others. The length of the larger body was not determined but appeared to be about 300 feet.

A composite chipped sample across the 3 bodies (skipping the argillite interbeds) on an east-west line about 200 feet south of the section line (SG-204, P-23195) assayed 70.40 percent  $\text{CaCO}_3$ .

No limestone was found in a 8-foot deep bulldozer trench just beyond the south edge of the three bodies. Their abrupt termination indicates a possible fault.

Visited: 7/8/58.

Report by: Len Ramp - 8/21/58.

Reference: Wells, F. G., Hotz, P. E., and Cater, F. W., Jr., Preliminary Description of the Geology of the Kerby Quadrangle, Oregon: Oregon Department of Geology & Mineral Industries Bull. 40, 1949.

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STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES  
PROJECT SAMPLE RECORD

SG - 202, 203, 204  
CaCO<sub>3</sub>  
File with Dole's Report

SAMPLES SUBMITTED BY: Len Ramp (DOGAMI) ADDRESS: P.O. Box 417 Grants Pass, Ore. DATE: 7/9/58

<u>Sample No.</u>	<u>Mine or Prospect</u>	<u>Type</u>	<u>District</u>	<u>S.</u>	<u>T.</u>	<u>R.</u>	<u>Assay For</u>
(1) SG-202	Dole property	Chip	Gold Hill	NW $\frac{1}{4}$ 13	37 S	4 W	CaCO <sub>3</sub>
(2) SG-203	Dole property	Grab	Gold Hill	NW $\frac{1}{4}$ 13	37 S	4 W	CaCO <sub>3</sub>
(3) SG-204	Dole property	Chip	Gold Hill	NW $\frac{1}{4}$ 13	37 S	4 W	CaCO <sub>3</sub>

Descriptions:

1. From small outcrop of limestone measuring about 18 feet wide and 45 feet long. Sample chipped across main outcrop at 18 inch intervals and along strike at 10 foot intervals.
2. From small outcrop 3 feet in diameter light gray banded somewhat friable limestone.
3. Chip across? (E-W) cumulative distance of about 80' in 10, 30, and 40 foot zones limestone outcrops separated by about 10 feet of metaseds. Chip intervals about 4 feet.

Results:

		CALCIUM	
		CaO	CaCO <sub>3</sub>
P-23193	SG-202 . . . . .	17.40%	31.05%
P-23194	SG-203 . . . . .	53.52%	95.51%
P-23195	SG-204 . . . . .	39.46%	70.40%

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