

BYRON LIMESTONE

RIDDLE DISTRICT

CONFIDENTIAL

I suggested to Renfro that more prospecting is necessary. The hillside has a 10° slope, grass covered, and I suggested a Fresno and farm horse to clear off soil along the strike. But first to dig down, at the present pit, about 8 ft. to see if better quality rock can be found. Then, if quantity and quality hold up, he is in a position to begin thinking about market.

The Empire paper mill gets its rock from the Williams (Beaver-Portland Cement Co.) quarry, freight rate \$2.40/ton. An average cost per ton for quarry paper rock is \$0.90-\$1.25 and with the narrowness of the stratum, this cost might run up to \$1.75. A 90 mile truck haul, on basis of 400 tons per month as suggested to him by Empire mill might be done for 2-3¢ per ton mile. This would be \$1.80-\$2.70 per ton. A probable laid down cost at Empire would be \$4-\$4.50.

If he can prove 20,000 tons of paper rock under present conditions and can get a contract for \$5.50-\$6.00 a ton, the operation of its deposit might be feasible. The above figures were put out as "rank" estimates only, and I stressed the difficulty of working such a narrow stratum.

As a small operation, supplying paper rock to a paper mill, the project might be feasible. I seriously doubt if this deposit could offer any tonnage quality, or probable sale price that could interfere with either Beaver-Portland Cement Co. paper rock or Bristol's burned lime, altho I did not so mention to Renfro.

Ray C. Treasher  
Field Geologist  
Sept. 13, 1940

OWNER: Fred Byron, Brockway, Oregon.

LOCATION: SE $\frac{1}{4}$  Sec. 5 $\frac{1}{2}$ ., T. 29 S., R. 7 W. About 1 $\frac{1}{2}$  miles N.E. of Olalla-- from Highway 99 at Highway 42 intersection, a distance of 6.3 miles west on Highway 42 to first signboard pointing SW to "Olalla--4 miles". SW on this road, crossing 2 bridges, 4 miles to Fred Byron place--N.W. on foot  $\frac{1}{2}$  mile up minor stream valley to limestone outcrop, 200' above creek bottom.

AREA: Deeded land, 520 acres.

DEVELOPMENT: Limestone uncovered over an area 10 ft. X 20 ft. No other other pits or outcrops.

HISTORY: Limestone was uncovered about 40 years ago, but no activity since then. Renfro sampled surface material, sent it to paper mill at Empire, and received report from them to dig into fresh material and submit another sample. They are greatly interested and if slightly better rock can be found, they offered a minimum of \$5/ton f.o.b. Empire.

GEOLOGY: The limestone appears to strike N. 75° W., and dip 75° S. 15° W., on the basis of a 20' exposure. It is exceedingly fine grained and compact and looks somewhat like lithographic limestone. It also looks, and shatters, as if it were chert--this similarity is very striking particularly as the country rock contains considerable chert and jasper. The limestone is cut by very narrow, convoluted, suture-like strings of a dark reddish material, into areas 2 inches square. Cutting the limestone and these strings, and being cut by them, are  $\frac{1}{4}$  inch veins of crystallized, translucent calcite. Some of the limestone is as pink to rose color and looks like bleached red shale, which it is not. There is no topographic expression of the limestone or wall rock.

The country rock was not studied closely, but it appears to be a slightly metamorphosed sandy shale. It contains considerable greenish and reddish chert. This chert, and the mildly metamorphosed sediments sounds like Cretaceous (Myrtle) formations. [Check with Roseburg folio] Some schistose material like an original calcareous shale, was found on the hillsides about where the footwall contact should be.

The deeded land is grazing land and has no great value. The estate will sell the entire ranch only, but will accept a royalty on rock removed.

IF the limestone continues down the hill to the creek, it will have about 500 ft. lateral extension, and if the width of 10 feet holds up, and assuming an average 50 foot depth, there would be 20,000 tons available. Road distance to Empire is about 90 miles, and  $\frac{1}{2}$  mile of easily-built road to be constructed at low cost.

INFORMANT: Ray C. Treasher, accompanied by E. M. Renfro, Myrtle Creek, Oregon, 9/13/40

REPORT BY: Ray C. Treasher, 9/13/40

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

ASSAY REPORT

Office Number AG-1295

Grants Pass, Oregon

~~Baker, Oregon~~

October 4, 1934

Sample submitted by Ray C. Treasher----Limestone

Sample description One piece of fine reddish gray limestone.

The assay results given below are made without charge as provided by Chapter 176, Section 10, Oregon Laws 1937, the sender having complied with the provisions thereof.

NOTICE: The assay results given below are from a sample furnished by the above named person. This department had no part in the taking of the sample and assumes no responsibility, other than the accuracy of the assay of the material as furnished it by the sender.

Sample Number	GOLD		SILVER		Ca CO <sub>3</sub>		Insoluble		Total Value
	Ounces per ton	Value	Ounces per ton	Value	Percent	Value	Percent	Value	
					66.3		5.8		

Market Quotations:

Gold            \*            per oz.  
 Silver         \*            per oz.  
                  \*            per oz.  
                  \*            per oz.

STATE ASSAY LABORATORY

*Albert C. Lewis*  
 Assayer