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## ONE OF CHIEF INDUSTRIES OF PRINCE RUPERT IS THE SEAL COVE LUMBER MILL

HAS MOST UP-TO-DATE MACHINERY AND LABOR-SAVING  
DEVICES OF ANY MILL IN THE WEST;  
UNIQUE FEATURES

Prince Rupert will flourish just to the extent to which her industries prosper. With industry tied up, everything suffers. With everything running full blast everyone has plenty of money and everyone feels happy.

Naturally everyone is looking to the shipbuilding to be the industry which will carry the city forward on the next step toward greatness. Then there will come the transpacific shipping trade and industries of various kinds will spring up. It must not be forgotten, however, that there are two basic industries here which will prove very valuable. One of these is the fishing industry, about which so much has been said, and the other is the manufacture of lumber and lumber products.

The Prince Rupert Lumber Co. has its mill right here in Prince Rupert on a site admirably suited for the purpose and it promises to develop a permanent industry where there is a constant demand not only for lumber but for its manufactured products such as shingles and box shooks.

### The Plant.

The mill was designed with a view to efficiency and low cost of production, in aid of which modern machinery and modern methods have been employed. The plant when completed will consist of a saw mill, shingle mill, planing mill, dry kilns and storage sheds, with the possible addition of a box plant later, and will have a daily capacity of 125,000 feet of lumber and 150,000 shingles.

### Equipment.

The saw mill is of extra strong construction, 46 feet by 250 feet, two stories high and is equipped with machinery of the heavy Pacific coast type. A log lift is employed for taking the logs into the mill instead of the old type Jack Ladder, and this particular lift is an innovation in that it is a double lift having two sets of cables, the one delivering the logs to the saw mill and the other throwing the logs to the shingle mill deck. A reversible engine of the twin feed type supplies power for the lift and is entirely independent of the other machinery in the mill.

On the log deck there is a heavy four arm steam shop and loader down against which the logs are rolled from the lift and which in turn passes them on the Simondson turner. The Simondson turner is of the standard type in use on the coast with the addition of an independent skid lift, making it much more flexible than the old type. In addition a heavy canting gear was installed to be used in emergencies.

### Saw Works.

The 40-foot carriage is equipped with four steel head blocks opening 66 inches and is mounted on heavy three wheeled cast steel trucks running on 90-pound rails, two flat and one V'd. Here on the carriage we find another of the distinguishing features of this plant—that is an electrically driven set works, one of the latest developments in saw mill machinery. In this piece of equipment an electric motor of the ordinary type, by means of an assembly of gears and clutches, transmits its power directly to the set shaft on the head blocks. The whole arrangement forms a self contained and compact unit which is quick, powerful and positive in its action. This machine is so constructed as to eliminate any possibility of an over-throw in setting out and contains many other distinguishing features that can be appreciated only by seeing it in actual operation. This is the first set works of its kind to be installed in British Columbia.

A ten foot band mill carrying sixteen-inch saws was installed to break down the timber for the gang, the edger and roller band resaw. Provision has been made for a large gang saw but this machine will not be put in place until the balance of the plant is in operation.

The edger is ten by sixty inches with steam lift on the press rolls and carries five thirty-two inch movable saws. Here we find another departure from the usual installation in the employment of a mechanical spotter eliminates the heavy lifting or "arm strong" work usually required to get the lumber through an edger.

### Dry Kilns.

The dry kilns will be of crib

construction, double tracked and will be three in number at the start with ample room for increasing the number. Two of the kilns will handle lumber while the third will be used for drying shingles. The lumber will be edge stacked and run into the kilns lengthwise which system makes for rapid drying with a minimum deterioration of stock. Edge stacked lumber comes from the kiln uniformly dry and practically free from checks, warps, and twists, and shows a comparatively small loss in dressing. Ample trackage is provided at both ends of the kilns for storage of lumber on kiln cars, a system of transfers being used to distribute the cars to the different kilns.

### Storage.

The storage shed consists of what is known as a four track monorail shed and is 90 feet wide by 400 feet long and 40 feet high, being entirely under roof and sided in so that the lumber is protected from the elements at all times, and is so constructed as to increase the natural draft, thus constituting a rapid air drier. Here the lumber is stored in the original packages or units until it is wanted for shipment, when it is again picked up by the hoist and taken to the shipping platform. This system affords an expeditious and economical method of handling and makes possible the storage of a very large quantity of lumber on a small ground space.

### Monorail System.

The monorail is employed throughout the plant for handling and transporting the lumber, a system having been evolved to meet the particular conditions presented. After a thorough investigation and study of the systems in use in the various mills on the coast, a combination of the monorail and the transfer crane was adopted as the best suited to the requirements of this plant. Along the outside of each sorting

(Continued on Page 5.)



TIMBER SALE X 1548.

Sealed tenders will be received by the Minister of Lands not later than noon on the 27th day of December, 1918, for the purchase of Licence X 1548, to cut 30,000 Hemlock, Jack Pine, Spruce and Cedar trees on an area adjoining L. 921, near Pitman, B. C., Coast District. Two years will be allowed for removal of timber. Further particulars of the Chief Forester Victoria, B. C., or District Forester, Prince Rupert, B. C.

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