

vnopsis of Regulations for disposal of Minerals on Dominion Lands in Manitoba, the Northwest Territories and the Yukon Territory.

in Manitoba, the Northwest Territories and the Yukon Territory.

Coal—Coal lands may be purchased at \$10 per acre for soft coal and \$20 for anthracite. Not more than \$20 acres can be acquired by one individual or company. Royally at the rate of ten cents per ton of 2000 pounds shall be collected on the gross output.

Quartz—Persons of eighteen years and over and joint stock companies holding free miner's certificates may obtain entry for a mining location. A free miner's certificates may obtain entry for a mining location. A free miner's certificate is granted for one or more years, not exceeding five, upon payment in advance of \$7,50 per annum for an individual, and from \$50 to \$100 per annum for a company, according to capital.

capital.

A free miner, having discovered mineral in a place, may locate a claim 1500 x 1500 feet by marking out the same by two legal posts. bearing location notices, one at each end on the line of the lode or vein. The claim shall be recorded within fifteen days if located within ten

The claim shall be recorded within fifteen days if located within ten miles of a mining recorder's office, one additional day allowed for every additional ten miles or fraction. The fee for recording a claim is §5. At least \$100 must be expended on the claim each year or paid to the mining recorder in lieu thereof. When \$500 has been expended or paid, the locator may, upon having a survey made, and upon comply-ing with other requirements, purchase the land at \$1 an acre, Permission may be granted by the Minister of the Interior to locate

claims containing iron and mica, also copper in the Yukon Territory, of an area not exceeding 160 acres.

of an area not exceeding 160 acros.

The patent for a mining location shall provide for the payment of Royalty of 2 1.2 per cent of the sales of the products of the location Placer Mining—Manitoba and the N. W. T., excepting the Yukon Territory.—Placer mining claims generally are 100 feet square; entry fee, 85, renewable yearly. On the North Saskatchewan River claims are either bar or bench, the former being 100 feet long and extending between high and low water mark. The latter includes bar diggings, but extends back to the base of the hill or bank, but not exceeding 1000 feet, Where steam power is used, claims 200 feet wide may be obtained. obtained.

obtained.

Dredging in the rivers of Manitoba and the N. W. T., excepting the Vakon Territory—A free miner may obtain only two of five leases of Yukon Territory—A free miner may obtain only two of five leases of Yukon Territory—A free miner on the State of the Manitor of the Interior.

The lesses we shall have a dredge in operation within one season from the date of the lease for each five miles, but where a person or company has obtained more than one lease one dredge for each fifteen miles or fraction is sufficient. Rental, \$10 per annum for each mile of river leased. Royalty at the rate of two and a half per cent collected on the output after it exceeds \$10,000.

Dredging in the Yukon Territory—Six leases of five miles each may be granted to a free miner for a ferm of twonty years, also removable.

Dredging in the Yukon Territory—Six leases of five miles each may be granted to a free miner for a ferm of twonty years, also removable. So we have the summer of the state of the lease, and the person of two persons of the person of two persons of the date of the lease.

The person of the person of two persons of the person date. Rental, \$100 per mile for first year and \$10 per mile for each subsequent year. Royalty same as placer mining.

of the lease, and one dredge for each new miles within at y sears from date. Rental, 100 per mile for first year and 60 per mile for each subsequent year. Royalty and 100 per mile for each subsequent year. Royalty end of the per subsequent of the per subsequent year of the per subsequent year. The per subsequent year of the per subsequent years of the per subsequent years of the per subsequent years of the years of years years years of years of years of years of years of years years of years years of years y

clain shall be deemed to be abandoned, and open to occupation and entry as a res miner.

The boundaries of a claim may be defined absolutely by having a nurvey in and publishing notices in the Tuken Offic. Gazette.

The boundaries of a claim may be defined absolutely by having a nurvey in and publishing notices in the Tuken Offic. Gazette.

The defined of the transfer of the tran

W. W. CORY
Deputy of the Minister of the Interior Dept. Interior,

WE are manufacturing our Plug Tobaccos from the Best FOREIGN and CANADIAN Leaf. Our Brands "Bull Dog," Registered, are the best combination

Tobaccos made in Canada. "Bull Dog" Twist, 12 to the pound; not 13 or

14 to the pound, to deceive the Consumer We also manufacture Bright and Black Chewing and Bright Smoking. Best values and at Prices to suit ALL CONSUMERS OF TOBACCOS. Ask you Grocer for them and take no other which a Retailer may say is find as Good.

The St. Lawrence Tobacco Co., Ltd. W. SAURENT, Montreal.

W. B. Reynolds, Halifax, Agent for the Maritime Provinces.

George Patterson,

BARRISTER, SOLICITOR, ETC. NEW GLASGOW, N. S.

Successor to Sinclair and Patterson

Steam boilers are, of course, used for the conversion of water into steam by the application of heat usually obtained from coal. The operation of converting water into steam is known as evaporation, and some steam boilers can generate a larger volume of steam than others by the burning of a given weight of coal. This is what we mean by the evaporative power of a boiler, which may vary from six pounds of steam to twelve pounds of steam from the consumption of one pound of coal. It is not easy to determine the evaporative power accurately, because it is not easy to prevent water passing out of the boiler along with the steam, however, careful experiments specially conducted by engineers who understand the why and the wherefore have arrived at very correct results as regards different boilers and also as regards different fuels.

CONDENSING IN PUMPING.

Provided that the pump is sufficiently large in proportion to the steam cylinder to provide ample water for condensation, say not less than 30 or 40 pounds of water for each pound of steam, we have found that the exhaust steam from the cylinder of a pumping engine can sult is that the exhaust steam becomes part of the suction water, and the only effect upon the suction water is that it is somewhat higher in temperature than it would otherwise be. This does not matter, because a pump with proper metal valves will deal with water just as well at a temperature of 90 or 100 degrees as it will with water at a temperature of 60 or 70 degrees. The efficiency of the pump as to delivery is diminished by the amount of steam condensed.