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AN ULSTERITE DRILL HALL AT LIMAVADY

The building to the left (low section) was built by the Ulsterites at Limavady specially for drilling purposes. The money was raised in the town, which has 2,500 people, half Catholic. Sir Edward Carson spoke there lately.

LITTLE TRIP TO GRANBY
HOME OF BIGGEST MINE
(Continued from Page 1)

off on to a city wharf. He will see surrounding him great cement, brick and frame buildings. He will see steam engines and electric tramways, streets laid out, scores of buildings and hundreds of people. Up on the side of a nearby hill is the smelter plant with its series of great grey buildings. Towering above this is a gigantic cement chimney which vies with the mountain peaks in reaching skyward. From this chimney issues a never-ceasing cloud of light grey smoke, the sulphur fumes of the burning ore. The town itself has streets, sidewalks, bridges, electric light, sewers and waterworks. The traveller puts up at a hotel that offers rooms with private baths and gives a service equal to any city. The town boasts of a three-storey office building, the best equipped hospital in British Columbia, a theatre, a sawmill, brick yard, and the biggest store north of Vancouver. The homes are all built from some half a dozen

general designs. They are both comfortable and artistic. Probably the most striking feature is the general color scheme used in painting all the buildings in the town. There is a very pleasing blend of buffs, greens and browns, with every building having an individuality.

Use Water Power

All the light and power used in the place is from electricity generated from the Falls river water power. A four-foot flume carries the water to an immense power house. In this same power house water wheels operate two big air pumps which furnish the blast for the smelter furnace and the air for the shafts and drills at the mines two and a half miles away.

Climb Up to the Mine

The great copper cache itself is in the shoulder of a mountain. It lies two miles from the wharves, but an electric railway takes in the supplies and brings out the ore. Most people have the impression that to go into a mine you go down deep into the ground. At Hidden creek mine you climb up. The main shaft is 385 feet above sea level, and from that to the top of the hill the company has fifteen million

tons of ore in sight. What lies below the 385-foot level is unknown, but test holes show there is still ore at sea level. Figures do not convey much to the average reader, but a solid mountain of ore such as the Granby company has is one of the rarest things in the mining game.

Up at the mine there is another little town, with cottages for the married men, separate quarters for the officers, and big bunk houses for the miners and muckers. There is also a large recreation hall.

Should Be Gravitation City

Granby Bay should have been called "Gravitation City." The whole scheme of things has been planned with the idea of making the discovery of Isaac Newton do all the work. It is wonderful but true that the ore is never lifted from the time it leaves the hands of the muckers in the mine until it runs out as molten copper on the floor of the furnace room over two miles away. Everything runs down hill, excepting the company's profits, which run up in the ratio that tonnage runs down. When the ore drops from the walls of the mine tunnels it falls into cars; the cars run out to a dump on the hillside. Underneath the dump are other cars which are filled by the pulling of a lever. This tram line runs half a mile along the hillside and then automatically dumps the ore into a crusher set up in the bowels of the mountain. The ore drops fifty feet down a shaft into this crusher, and away below is another tram line which runs into a tunnel underneath the crusher. From this crusher the ore is taken by dump cars away over to the smelter down on the bay. At the smelter it dumps the ore into ore bins and from the ore bins to other cars, which run it into the furnaces.

The great ore shed adjoining the smelter building has many bins, some for ore, some for coke, some for silica, some for limestone, and others for custom ore sent in for smelting. The coke has to be brought in from Tacoma, but limestone and silica are found in the neighborhood. These have to be hauled up from the docks by electric tram.

Use Very Little Fuel

Naturally the fuel in a plant that is running four furnaces and four converters night and day is a matter of some economical importance. At Granby it is what a boy would call a "cinch." The percentage of coke needed to fire the gases in the ore is wonderfully small—only three percent at the present time, and the management expects to reduce it to two per cent. But it makes some fire, all right.

A Literal Inferno

"Do you believe in hell?" asked one of two visitors who stood looking into the seething depths of one of those furnaces. "Well, I was just thinking that if some theatrical man could only stage that fire in a Faust scene he would make the world believe that the hell of our grandfathers was no myth after all."

Scrambled Rainbows

The heat of it and the strangling gases of the burning mineral is not for word description. One has to feel it and choke on it to experience the sensation. But the picturesqueness of it is worth the experience. Scrambled rainbows amid a shower of stars may convey a meaning, and it would not be an extravagant one. It is sure some fire.

Burning Out Copper

From underneath the furnaces are two little white heat streams constantly running. One is the molten metal; the other the slag which runs down the hillside in a liquid dust. After the metal cools it is again boiled up in a converter furnace, where the last of the waste is removed. These converters are twenty-ton swinging pots which tip and pour the copper into enormous dippers. A big electric travelling crane with chains and arms that are almost human handle the dippers of metal and pour the copper into the molds. The capacity of the furnaces is 2,000 tons of mixed ore per day.

As may be expected this great plant has many subsidiary shops—assay offices with scores of delicate instruments, storehouses

with enormous stocks of supplies and repairs, big machine shops, warehouses, car shops, and workmen that number a thousand. The organization is one of the wonders of modern business methods.

Only One Deed

Probably the most unique feature of this whole Granby Bay is the fact that there is only one deed in the registry office to represent it all. It belongs to the Granby Consolidated Mining & Smelting company, limited. There are no private interests or individual owners. Every building, every bit of machinery, every road, every store or stock, the electric lights, the water, the sewers, even the mayor, are all the property of the company. Every man in the town is working for the company. It is a company town. To all appearances it is just a well-organized frontier city with all modern conveniences, but in reality it is quite different. Nobody has a municipal vote but the manager of the company. He is boss and he appears to be a good one.

At the present time the smelter is being used for experimenting with the proper combination of ores and flux. This will take some time, but when the experiments have been completed the smelters will be turning out copper at a wonderfully low cost.

Sale prices, wall paper, this week.—Wallace's. 103tf

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Skeena Land District—District of Coast, Range Five.

TAKE NOTICE that I, William McK. Logan, of Prince Rupert, B. C., occupation prospector, intend to apply for permission to purchase the following described lands: Commencing at a post planted 160 chains east and 40 chains south of the northeast corner of Pre-emption Record 1838, thence south 40 north 40 chains, thence west 80 chains to the shore line to point of commencement; containing 320 acres, more or less.

March 7, 1914. W.M. McK. LOGAN.

Skeena Land District—District of Coast, Range Five.

TAKE NOTICE that I, Andrew MacLean, of Prince Rupert, B. C., occupation carpenter, intend to apply for permission to purchase the following described lands: Commencing at a post planted about 160 chains east and 60 chains north of the northeast corner of Pre-emption Record 1838 at a point on the northerly shore line of an island, thence south 60 chains to the southerly shore line, thence westerly, northerly and easterly, following the sinuosities of the shore line to the point of commencement; containing 480 acres, more or less.

William McK. Logan, Agent. Andrew MacLean.

March 7, 1914.

Skeena Land District—District of Coast, Range Five.

TAKE NOTICE that I, David Cook Strang, of Prince Rupert, B. C., occupation prospector, intend to apply for permission to purchase the following described lands: Commencing at a post planted about 160 chains east and 60 chains north of the northeast corner of Pre-emption Record 1838 at a point on the northerly shore line of an island, thence south 60 chains to the southerly shore line, thence easterly, northerly and westerly following the sinuosities of the shore line to point of commencement; containing 480 acres, more or less.

DAVID COOK STRANG. William McK. Logan, Agent.

March 7, 1914.

NOTICE

IN THE MATTER of an application for the issue of fresh certificates of title for Lot 11, Block 44, Section 5, and Lots 18 and 19, Block 11, Section 7, City of Prince Rupert, Map 928.

NOTICE IS HEREBY GIVEN that it is my intention to issue after the expiration of one month from the first publication hereof fresh certificates of title in the name of William B. Snodgrass for the above mentioned lots, which certificates are dated 12th January, 1914, and 30th July, 1913, and are numbered 349 I and 4143 I respectively.

H. F. MACLEOD, District Registrar.

Land Registry Office, Prince Rupert, B. C., March 5th, 1914.

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Modern 4-room house and bath.
Two 2-room cabins, partly furnished, \$8.00 per month.
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Fire and Accident Insurance in Strong Board Companies.
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Walkover and Invictus Slater Shoes; A large assortment going at..... \$4.90
Men's Walkover, Invictus and Twentieth Century. Broken lines, all sizes; regular \$5.50 and \$6.00; now..... \$4.45
Men's Fine Calf and Kid Welted Boots. Several lines in all makes. Regular \$5.50 to \$6.50..... \$3.90
Men's Black and Tan Calf Welts. Assorted broken lines; now..... \$2.45 & \$2.90
Men's Oxford Shoes, Black and Tan. Large range, all sizes. Regular \$5.00 and \$6.00; now..... \$1.95
MEN'S WORKING BOOTS, all the best makes at BARGAIN PRICES

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The "ECLIPSE," "CLASSIC," LECKIE'S, THE AMERICAN, "E Z WAK," Shoes and others all greatly reduced

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Oxford Shoes, all makes. Large range, assorted, going at..... \$2.75 & \$3.25
Also a number of broken lines at..... \$1.90

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