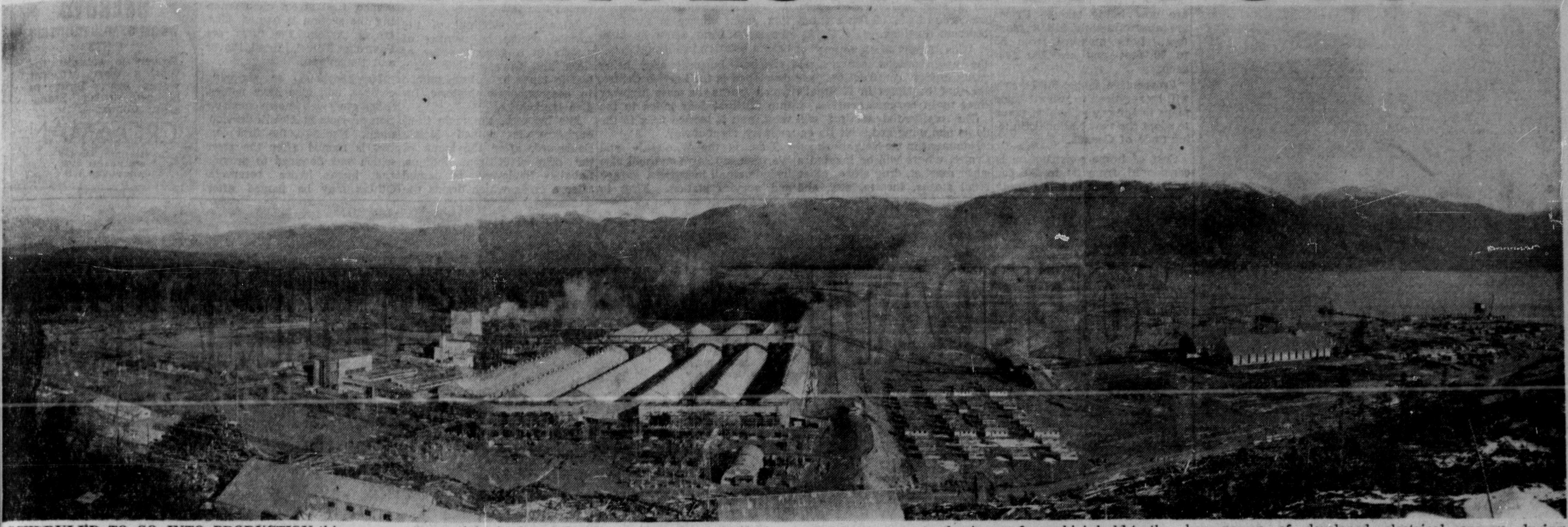
ALCAN CARVES NEW FUTURE



SCHEDULED TO GO INTO PRODUCTION this summer is the giant aluminum smelter at Kitimat, B.C., pictured above in the panoramic photograph supplied by the Aluminum Company of Canada Limited. At the

extreme right is shown the approach to the main dock a conveyor transports alumina ore from ship's hold to the

and the estuary of the Kitimat River which has been smelter. To the left is seen the terminal of the 50-mile dredged to allow navigation by deep-sea ships. From the transmission line which stretches to the Kemano Bay dock to the buildings in the centre housing the potlines, powerhouse, from which the plant will draw 450,000

horsepower of developed electrical energy during its first stage of operation, costing more than \$250,000,000.

Industrial Giant

Wilderness Gives Birth to New City

Transformation from wilderness to civilization, already underway in the wake of an industrial drama, marks the genesis of British Columbia's newest community of Kitimat—B.C.'s first Aluminum City.

Three years after the first brush was cleared on the banks of the Kitimat River, initial stage of the gigantic smelter of Aluminum Company of Canada is preparing for production next month.

And eight miles up the valley, construction is being rushed on ment and through the stages the first 400 homes of Canada's that may ultimately see it ascend to populations of 35 to 50 most modern city.

Kitimat will have to be the Announcing the plan a year most modern community in the ago, an Alcan official stated: country if the plan for its devel- "In essence, the master planopment is followed. Its design ners have conceived the town Aluminum Company of Canada his family to enjoy life. The has provided it and the munici- emphasis is placed on neighoal council has vowed it will borhood living, each with its

be executed. The Master Plan of Kimitat pattern not only provides pleass designed to take care of the ant, safe, and convenient living,

Best Town in the World

own in the world." Kitimat is located on the 54th Reeve W. H. Sparks, who as Channel, 70 miles from open velopment, is enthusiastic.

ea. Across the channel is the "The whole council is delight-It is considered the best and it is principally sound.

extensive basis and still pro- the country."

"We want Kitimat to be one vide sea and rail facilities, all the best, if not the best, within reach of the power development.

parallel, at the head of an open guided the initial construction valley where the river of the of the smelter site and now is same name empties into Doug- resident engineer of town de-

ncient village of Kitimat, the ed with the design. It may ome of the Haisla Indians. | sound idealistic in theory, but

mly place where there is enough "We will do everything in our and to permit development of power to see that we have industry and a townsite of an model city, the most modern in

Traffic Routing Makes Difference

The main difference between There will be no alleys. Fronts the design of future Kitimat and of the homes face out towards conventional communities is in open spaces and walkways. the system of traffic routes, Each such section points topoints out Cyril Henderson, wards the centre of a neigh- GET SPECIAL municipal manager and former borhood in which are located professional town planner.

All arterial traffic will be and shopping centre. routed around residential neigh- "No child will have to cross borhoods. Throughout the a major street or walk further whole system, there will be no than a quarter-mile in going to need for pedestrians to walk school," said Mr. Henderson.

in the way of vehicular traffic. First couple to occupy the Even the residential streets dwellings now being erected should be free of foot traffic, moved in on March 15 this year. Most streets will lead off from By Christmas, it is expected 400 the boulevards or arterial roads families will comprise the nun semi-oval loops, with the rear cleus of Neighborhood A deof houses fronting the streets, signed to house 5,000 persons.

Planned to Develop in Four Stages

There are 10 such neighbor- \$5,000,000 by the end of 1955 hoods included in the Master for public works and schools. Plan and their development The 1954 current revenue will correspond to the indus- budget nudges \$1,000,000. trial expansion of the alumi- The B.C. government authorhum plant and secondary indus- ized the new council to borrow try. Expansion is planned in the \$5,000,000 during the first three years in order to get it four stages:

started. Close to \$3,000,000 Stage 1, entered now, is ex- worth of facilities the council pected to reach full develop will have to provide already ment by 1957 and corresponds have been installed, or are under to the first stage of the construction by Alcan. They smelter of two potlines include a million-dollar bridge which will require 1,000 emover the Kitimat River, roads,

and a \$1,500,000 water and Stage 2 when ultimately de- sewer systems. veloped will provide housing Still under construction, the and facilities for 12,000 to water-sewer project is expected 15,000 people and corresponds to service 500 lots by Septemto double the capacity of the ber. smelter, i.e., four potlines.

Stage 3 will be reached when the plant installs its next two or the company will be reimpotlines and is designed for a bursed by the municipality. maximum of 25,000 people.

are located near the smelter Stage four is the largest ma site in the temporary Alcan of or expansion program for fice building. Current year's the townsite as well as the budget will provide extensive plant. Designed for a popu- purchases of supplies and equipultimate development of the but council expects to have 25 creased to 12 potlines. At this year and double that numthis stage there would be an ber by 1955. Present staff, inestimated 14,200 Alcan em-cluding the manager, totals should not be destroyed. ployees.

square miles will spend some . (Continued on Page 10) | nearly 300,000 square miles. | to date.

s a town planner's dream. The as a place for the worker and local shopping centre . . . The community's initial develop- it is also economical in layout.

Such installations will either

At present, the civic offices

be purchased direct from Alcan

parks and playgrounds, schools HOUSING DEAL

Employees of Aluminum Company of Canada Ltd. at Kitimat who purchase homes on the new townsite in 1954 will get a special deal through a plan of company

assistance. To encourage employees to buy or build their own homes Alcan has promised this year to make available second mortgage loans, then contribute to the employee monthly a bonus of \$2.85 for each \$1,000 of the approved

value of the house. The plan, which applies to Alcan employees only, was adopted partially because of the high cost of building during initial development of the townsite. It makes it possible for an employee to buy a \$14,000 home for \$700 (or 5 per cent) down and a monthly payment of \$65.24, including taxes, insurance, repairs and maintenance.

To protect the purchaser, Alcan will buy back the house at an approved price less depreciation if at any time during the first 10 years the employee vacates the premises in good repair.

of the inter-American confer. town planning. ence here has urged internaworld markets, to avoid harmsmelter with its capacity in- civic employees by the end of ing normal production by other recommended that the surpluses

GREAT RIVER

ALCAN WORKERS Newest B.C. Municipality Adopts drop the water to turbines Civic Council-Manager System

manger plan of civic govern- Sparks:

HUGE DOCK AT KITIMAT will accommodate two

deep-sea freighters at a time and is equipped with one

general purpose loading crane, and a specially designed

crane for unloading powdered alumina from ships' holds.

And selected to manage civic chance for Kitimat to become affairs was Cyril McC. Hender- the finest and one of the most son, an expert in town planning prosperous cities in Canada.

derson recommended such a scheduled to operate this winter government for the new city. He will make Kitimat an important also supervised drafting the seaport." framework of Kitimat's Munici-

The Code is a 'master bylaw' setting out an indexed order of from central interior B.C. legislation for each category of administration. New bylaws are added to the Code as amend-

The council-manager plan was provided for in the incorporation of the district municipality in March, 1953. After election of the six councillors and reeve, council asked Mr. Henderson to

by the property department was born in Los Angeles, but Meanwhile, the council

He graduated from the Mas- province.

townsite is "revolutionary" and gallon reservoir.

Kitimat, British Columbia's The whole council is happy cluding the aluminum plant, mile inside a mountain of solid newest city in the making, is with the plan and looks for were \$13,290,375.

Dock is made of concrete caissons. Behind the dock is the

which can be seen in the distance, jutting out into Doug-

las Channel, provides moorage for passenger vessels.

province to adopt the council- Kitimat. Says Reeve W. H. on 100 per cent of land and 75 enough to house eight generat-"We believe there is every

called to the townsite by the "I don't think it will be long Aluminum Co. of Canada to before a highway will be built tion between various depart- stocks. help organize Kitimat's first ad- to connect us with Terrace and ments at the smelter site and the northern trans-provincial A vigorous exponent of the highway. Such a road together council-manager plan, Mr. Hen- with the railroad which is radio telephone.

Reeve Sparks cited the likely a commercial line. pal Code, only such form of leg- construction of a lumber assem. The community is already of 91,000 tons of aluminum a first refrigerator car in Canada islation believed to exist in bly wharf as a future develop- serviced by a network of roads year. ment with Kitimat taking a with the main thoroughfare A double circuit transmis- carry perishable commodities

> month calling at Kitimat with begin the following year. raw materials for the aluminum | Council has also budgeted for the final stage of the plant costs for the present and follow-

"Shipping will be a major teaching staff. secondary industry for Kiti- Civic officials are also study-The plan is administered The 36-year-old civil engineer mat," Reeve Sparks forecasts. ing a plan to provide or assist

in Kitimat and Vancouver, gained his education in Lon-initiating the expenditure of accommodation. where further information is don, England, graduating with \$5,000,000 to provide services Big British Columbia a Bachelor of Science degree, and utilities for the new city. - Following three years as tech- Decision is expected soon on a which would be the first in the is as big as Washington, Idaho, B.C.'s newest industrial centre, tions and improvements have

tional consultation before agri. sachussetts Institute of Tech- The water system, now under North Dakota. goes hand-in-hand with the municipal hall have been formed cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in He was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in he was appointed resident for maximum particular and cultural surpluses are sold in health and cultural surpluses are sold in health and cultural surpluses are sold in health and cultural surp town planning co-ordinator at fire, says Mr. Henderson ra-Cascade system, raise snow ready in operation. Other in A mechanical refrigerator car countries. The committee also Kitimat for Alcan in 1953. Source of water is in four wells capped peaks in a northwester-dustries have bought sites and and a compact container for Mr. Henderson admits that near the Kitimat River from ly line roughly parallel to the will move in shortly. the master plan for Kitimat where it is pumped to a million. Pacific coast.

"a radical departure from con- Preliminary assessment of inland up to 70 miles through pany which plans to build a Meanwhile, the municipal Alcan, as the development The Columbia River flows 1, ventional town plans in Can- land in the new municipality which ocean ships can pass with \$60,000,000 pulp and paper mill, EARLY TRADERS council which governs the newly company of Kitimat and owner 400 miles to the Pacific and its ada." There are only about totals \$608,928 of which \$56,480 ease, dwarfed by the 4,000 to using Alcan power. incorporated district of 60 of most lands except those re- basin has been computed at four such plans in the U.S. is exempt. Assessment of im- 5,000-foot mountains that rise The multi-million-dollar proj- reached the Peace River in provements for last year, in abruptly from the water. ect already has been a boon to northern Alberta about 1786.

Comes to Life A new industrial giant will come to life some time this summer when the first aluminum ingot is poured at the Aluminum Company of Canada's smelters at Kitimat,

Situated 400 miles north of Vancouver and 100 miles south- all B.C., providing a steady mareast of Prince Rupert, this ket of steel, cement and other giant project is the biggest sin. construction materials manufacgle post-war development in tured in the province.

power of electricity over a 50. year construction period. mile line will start the manufac. A good deal of the high-level ture of aluminum-ending three construction, especially on the years of hard slugging by thou- transmission line, involved the sands of men in this rugged constant use of a fleet of helicoastal wilderness.

Canada by private industry.

peak production, more than \$550,000,000 will have gone into the development.

Biggest single feat of the entire project was to turn an eastern flow of a chain of lakes back against a western mountain wall, producing a reservoir from which an ultimate 2,200,000 horsepower will be developed.

This involved damming of the gineers. Nechako River with the third highest rock-fill, clay-core dam feet above sea level.

10-MILE TUNNEL

conveyor to the plant, nearing completion. Another dock This reservoir has been con nected by a 10-mile tunnel 25 282-foot drive through solid feet in diameter through the Coast Range to two steel-lined penstock tunnels which will

At the discharge end of the penstocks, a powerhouse cavern has been excavated one quarter rock. First stage of developthe third municipality in the ward to a bright future for Tax rate of 57.7 mills is based ment of the cavern will be large per cent of improvement as- ing units of 150,000 horsepower sessments. Average home will each. Fully developed, the cavbe taxed at about \$200 a year. ern will be 1,100 feet long and Council hopes that the B.C. will contain eight more genera-Telephone Co. will provide tele- tors of the same horsepower, phone service in the near fu- fed by a twin to the first 10ture. Up to now, communica mile tunnel and two more pen-

between Kitimat and outside FIRST STAGE

points has been provided by Installation of three generating units aggregating 450,000 60 Years Ago A scheduled bus system is horsepower now is being comoperated by the company, but is pleted. These will provide suf. Since the Grand Trunk Railexpected soon to be replaced by ficient power for the present way, now part of the Canadian first stage smelter development National system, introduced the

major part in lumber shipments black-topped for several miles. sion line of very heavy con- has grown by leaps and bounds. An estimated \$770,000 will be struction, crossing over the Last year the CNR carried To start with there will only spent by the municipality on 5,300-foot Kildala Pass will about 2,500,000 tons of perishbe about one deep-sea ship a roads until 1955 with paving to carry the power to the smelter able traffic. This included fish

smelter, but full production of \$970,000 as its share of school sign of the project are such ada and the United States. would require one ship every ing year. It is planned to build total generating capacity of transported by refrigerator teacherages to accommodate 2,200,000 horsepower to pro- cars, can now be found in

is civic employees with housing OTHER INDUSTRIES

British Columbia, west coast other industrial and commercial service and the remainder in CARACAS, Venezuela (Reut. nical officer in the RAF, Mr. proposal to install a fluoridation province of Canada, has an uses, and foresee fast develop- freight service. ers) The economic committee Henderson decided to study system in the water works, area of 366,255 square miles and ment of secondary industries at Over the years many innova-

trial acreage has been set aside Shipments are now carried at

Deep salt-water inlets reach has been applied for by a com- company.

Great benefits also were re-Beginning of operation of ceived by transportation comthe huge underground power panies which handled the thouhouse at Kemano Bay and sunds of tons of materials in a transmission of 450,000 horse steady stream during the two-

When the project strides into EXCITING PROJECT

Alcan's "B.C. Project" has excited world-wide interest. Breaking into a new and undeveloped region, establishing a new frontier, building a new plant and a city chopped out of forests, and buidling an ocean port 70 miles from the open ocean, have a romantic appeal to the general public, but also proved a challenge to professional en-

SET RECORDS

in the world to raise the level Meanwhile, construction of a chain of lakes in Tweeds- workers and excavators worked muir Park and form a water against time to meet the 1954 storage 120 miles long, 2,800 deadline set three years before.

For example, four times during the tunnel driving, world records were broken. The last rock in six days and 61-foot advance in one day. Alcan, with its extensive

plants and headquarters in easttimes the drop of Niagara Falls. ern Canada, also recently set foot in Jamaica, where it constructed a bauxite concentration plant. Bauxite is the raw ore used in smelting aluminum. but being concentrated into alumina (oxide of aluminum) before shipping cuts bulk and costs in half.

It is estimated that at least two deep-sea ships will call each month at Kitimat with alumina.

By Railways

in 1895, the use of "reefers" to

from the Atlantic and Pacific The power site and the de- coasts to markets across Can-

that ultimate expansion to a Fresh fruits and vegetables, duce 550,000 tons of aluminum produce stores in every province and in every season.

From the initial car put into service nearly 60 years ago, the At the same time, Alcan of CNR's "reefer" fleet has grown ficials say, there will be ample to nearly 4,700 units. Over 300 power available at Kitimat for of these are used in express

Montana, Wyoming and some of Five square miles of indus- been made in refrigerator cars.

handling less than carload lots A forest management license are now being tested by the