MAINLAND CONNECTED WITH ISLAND BY WIRFI FSS

Point Grey Stations Transmitted Many Messages to Victoria Yesterday.

WORKED WITHOUT A HITCH.

Service to Be Inaugurated Next Month Will Be Extended to Prince Rupert.

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IRELESS communication between the Governmnt stations at Point Grey, near this city, and Victoria was successfully established yesterday. The tests proved of the most successful character. In all about two thousand words were exchanged. They were conductd under the direction of Mr. Cecil Doutre, co:nmissioner of wireless telegraphy, Ottawa, who is superintending the installation of the apparatus at the various stations. It is expected that a regular service will be inaugurated about the middle of next | month. The Dominion Government, t it is understood, will next spring build of additional station along the coast as far north as Prince Rupert.

"The equipment of the Point Grey ; station was completed last Sunday, but on account of a delay in making several slight modifications in the apparatus the actual transmission of mesrages did not take place until yester-day." said Mr. Doutre to The Province to-day. Our most sanguine expecta-

The speed attained in sending was somwhat in excess of thirty words per minute. This would be considered very fair speed over a land line.

Service is Instantaneous,

"The power is generated by a threehorsepower gasoline engine which driver a hundred-volt sixty-cycle alternator The current is taken from the alternator The current is taken from the alternation as stated at 110 volts and 'stepped up through the medium of a transformer to twenty thousand volts. This is again incressed from twenty thousand volts through the medium of an auto-transformer to a voltage ranging from forty to sixty thousand volts, there being a satisfactory means of testing the exact voltage. The remander of the equip ment consists of a condenser and a spark gap which are common to all wireless systems. The object of the condenser, which is known as the 'capacity,' acts as a reservoir for the current, storing up the very high energy from storing up the very high energy from the outer transformer. The clusing of the outer transformer. The closing of an ordinary telegrapher's key releases the stored up energy in the condenser, which is instantaneously transmitted to the aerial wire and flashed through space in the form of Hertzian waves. These waves travel with the same velocity as light, or at the rate of 590,90; metres, or an equivalent of 150,000 miles per second. Needless to add that with waves of this high velocity the signalare received instantaneously.

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Will the Waves "Bend?"

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Dr. Doutre considers it not improbable after the splendid results attained yesterday that there is a possibility of the aeril waves "bending themselves around the west coast of Vancouver Island and reaching the Pachena station. He, however, is not oversanguine of obtaining such stisfactory results.

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