

A PACIFIC CABLE

The Conclusions of Rear Admiral Bradford.

EASY ROUTE VIA THE ISLANDS

The Tug *Iroquois* Will Be Sent to Examine the Reefs About Midway Island.

WASHINGTON, Nov. 15.—Rear Admiral Bradford has completed the official naval project for a trans-Pacific submarine telegraph cable between San Francisco and Manila in time to supply Congress with all the essential information at the opening of the next session that will permit intelligent consideration of the subject and prompt action for the inauguration of the great work.

All doubt has been removed regarding the practicability of the enterprise by the adoption of Honolulu, Midway and Guam as relay stations on the long line and by the discoveries made from the naval survey ship *Nero* as to the character of the ocean bed between those points. The sounding instruments of this ship disclosed an abyss in the Western Pacific over five miles deep, but a slight divergence from a straight line fortunately developed a route avoiding this insuperable obstacle to laying a working cable. At another point, on the same stretch between Midway and Guam, a submerged mountain over 12,000 feet in height was discovered, and a reasonable level road around this was found.

A QUESTION FOR CONGRESS.

The physical practicability of the line being now assured beyond doubt, it only remains for Congress to weigh the military necessities and the commercial advantages to accrue from the construction and operation of the system. It was represented to Congress at its last session that the revenue to be expected from a Pacific cable would not attract private capital unless it had a connection with Australia, Japan and China, as well as with San Francisco, Honolulu and Manila. For that reason it was deemed indispensable that the United States should own Kusaie or Strong's Island, in the Caroline group, or a cable landing right there to insure the working of a loop to Australia. The absence of this may deter any corporation from undertaking the operation of a cable across the Pacific without a heavy subsidy.

The disposition to have an American cable line to Manila has probably become too strong for Congress to resist, and purely as a military safeguard, aside from the enormous business that must come with the further growth of American trade in the East, it is believed that the new line of communication will be established under Government ownership before the end of another year.

ADMIRAL BRADFORD'S ACCOUNT.

In his annual report to the Secretary of the Navy, which was made public today, Rear Admiral Bradford, Chief of the Bureau of Equipment, having charge of naval cable matters, says on this subject:

A practical route for a submarine telegraph cable was established between San Francisco and Honolulu some years ago. In order to continue the survey of the route from Honolulu to the Philippines, the United States steamer *Nero*, under Commander Charles Beiknap, United States Navy, was very thoroughly fitted out and equipped for deep-sea exploration at the navy yard, Mare Island, during the early part of the present year. The *Nero* is a large steam collier purchased for use during the late war, and on account of her great steaming radius was admirably adapted to make the survey. After a careful consideration of the subject it was decided that the best route westward from Honolulu to the Philippine Islands was by way of the Midway Islands and Guam, landing the cable at a convenient point on the east coast of Luzon, as near as possible to the latitude of Manila. It was also decided as desirable to survey a route from Guam to Yokohama. Elaborate instructions for the survey were prepared. The plan of the survey which is represented on the accompanying chart, consists in carrying direct lines of soundings, taken at alternate intervals of ten and two knots, from Honolulu to the Midway Islands, thence to Guam, and thence to Luzon, and also from Guam to Japan. The return course to be pursued is a zigzag line passing back and forth to equal distances on each side of the route, followed in going to the westward, with soundings at intervals of twenty knots at the turning points.

The *Nero* sailed from San Francisco for Honolulu on April 22. She sailed from Honolulu to commence her work on May 6. On May 22 she had completed a single line of soundings to the Midway Islands; by July 4 to Guam, and by August 1 to Luzon.

Along this route, which is 4,812 knots in length, 853 soundings were taken. The characteristics of the bottom soil and the temperature of the surface water were observed at each sounding station, and these, together with the meteorological record of the frequent observations of specific gravity, bottom temperature, and currents of the ocean, besides their value in laying a submarine cable, will form an important contribution to the physics of the Pacific ocean.

Two obstacles from the projected great circle route between the Midway Islands and Guam were found to be necessary in order to avoid obstacles to a successful laying and operation of a telegraph cable. The first of these obstacles encountered is a submarine mountain situated a short distance westward of the Midway Islands, and rising from the floor of the ocean, which here sinks to a depth of 2,200 fathoms, to within 82 fathoms of the

surface. The second obstacle is one of the deepest submarine abysses yet found in the world, situated about 500 miles eastward of Guam and sinking to a depth of more than 4,000 fathoms. Reports have been received of the preliminary line of soundings from Honolulu to Luzon, and they indicate that the route which is being surveyed will prove entirely practicable. No reports of the soundings taken on the return trip or of any soundings from Guam to Yokohama have been received. The expenses of this survey, so far as this bureau is concerned, have been entirely defrayed from its current appropriations.

FURTHER SURVEYS TO BE MADE.

A map of the cable route is given with the report. To secure more information about the Midway Islands Admiral Bradford is now fitting out the ocean-going, twin-crew naval tug *Iroquois*, with surveying apparatus, at Honolulu, to make a thorough examination of the reefs surrounding that small midocean archipelago. At the same time the *Yosemite* is making an exhaustive investigation of Guam, and the *Bennington*, which is equipped with surveying outfit, will chart the coast of Luzon, near Dingalan bay, where it is proposed to land the Manila end of the cable.

A KAMAAINA GONE

Sudden Taking Off of Mr. John Hopp.

We Came from Germany Forty-four Years Ago and Never Left the Islands

(From Thursday's Daily.)

One of Honolulu's oldest and best known residents passed away at his home on Alakea street at 10:45 yesterday morning in the person of John Hopp. Up to Saturday last, Mr. Hopp was in good health, and busy in his furniture store, but towards evening, feeling slightly unwell, he returned home, never to leave it again, as death followed a general breakdown of the system.

Mr. Hopp was born in Holstein, Germany, on the 7th of June, 1828, and was thus 71 years old. He left Germany in company with Mr. J. H. Wieke on the ship *Carl Melches*, via Cape Horn, for this port, for the purpose of erecting some frame houses, which were a part



THE LATE JOHN HOPP. (Photo by Davey.)

of the vessel's cargo. Arriving here about 44 years ago, he completed the work and finding the climate suited to his health settled down. His wife joined him some three years afterwards. For a number of years Mr. Hopp pursued his trade as carpenter in the city, but his only son, the founder of the present firm of J. Hopp & Co., dying in 1881, he assisted his son-in-law, Mr. E. M. Marshall, in the management of the business and took an active interest therein up to the time of his death.

Mr. Hopp was of a most retiring disposition, but a strong companion and favorite with children. He never mixed in politics, nor took any active interest in the questions of the day, during the whole term of residence in Honolulu, and from the hour of his arrival here he never left the islands.

Three daughters, Mrs. Marshall, Miss Dora Hopp and Mrs. Gus English, whose husband was formerly partner with John Emmeluth here, but is now located in Oakland, Cal., and five grandchildren are still living. Mrs. Hopp having died in 1888.

Accidents Will Happen.

Man wasn't made to suffer, but accidents will happen, and to meet such cases, Nature designed the roots, herbs, gums and leaves for the healing of the nation. Nature's way to treat a cut, bruise or a burn, is to cleanse, draw and heal, and that's the way Kikapoo Indian Salve acts—just as nature acts. It acts that way, because it is Nature's own remedy, compounded from materials gathered in Nature's infallible laboratory; unadulterated, pure and simple. The same ingredients found in Kikapoo Indian Salve were in use for centuries before the Red Men divulged it to the Pale Face. They healed nations ages ago, they act the same today. Hubron Drug Co., agents for the Kikapoo Indian Remedies.

WORK ON CENSUS

Preliminary Details Being Arranged at the Bureau.

Questions to be Answered—How the Work Will be Carried Out.

Preliminary details in connection with the census of the Hawaiian Islands are occupying the close attention of the Bureau under A. T. Atkinson. The country is being subdivided into districts, and when this work is completed, special agents will be appointed. No appointments in this direction will however be made for several months, but applications for employment will be received at any time, and filed for reference when the proper time arrives. A certain district will be allotted to each agent and his work will be to call at every house and obtain the necessary information from the occupants, and transfer the particulars to his book which is provided with special rulings for that purpose. The census will be taken on June 1st, 1900, and it is expected that about two weeks' time will be devoted by the enumerators to this part of the work.

Following are some of the principal questions put to the householder by the enumerator: Name, (in full); position in household, (whether wife, child, servant or lodger); personal description, (age, where born and when, married or single); nationality, citizen or denizen; occupation; education, (whether can read and write, (1) English, (2) Hawaiian); and also whether owner of house or otherwise.

It may be mentioned here that all information given to agents is strictly private and will in no way be used as a basis of taxation. Totals only are used in the returns, but a penalty of \$100 is provided by law against any false information.

Other schedules are provided for agricultural, stock, fisheries, sugar, school and church returns. For the agricultural returns, there is needed such information as the total area under cultivation, value of products, expenses per acre, description of product, (whether grown upon trees, such as fruit of all kinds, or in the ground as rice, vegetables, etc.), number of stock, description, age, etc.; dairy products, wool, poultry, bees, etc.

The fisheries schedule demands a description of the districts, method of taking, number of persons engaged, nationality of employees, catches, and the like.

The church returns ask for the nationality and number of members or communicants, value of church property, and how supported.

The school schedule requires the number of buildings engaged, cost, rental, nationality of teachers and number, nationality and number of scholars, average daily attendance, number of school days.

The sugar schedule asks for the value of plantation and buildings, rolling stock, land and improvements, quantity of water used for irrigation purposes, area of cane land, total production both plant and ratoon cane, number of employees and nationality and also wages paid, besides other matters of similar character.

The penalty set for false information given by corporations is set by law at a maximum of \$10,000 and one year's imprisonment.

PLANS SUBMITTED.

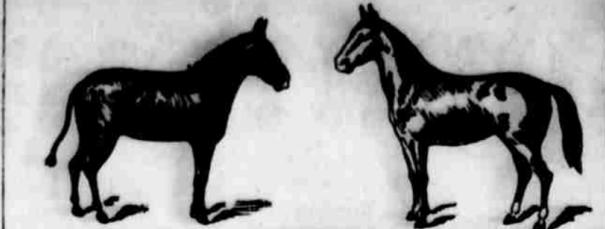
Model Jail for Honolulu Projected.

Plans for the new jail were yesterday handed in by Architect O. G. Traphagen. With certain modifications adjudged necessary to meet the requirements of a tropical climate, the architect has closely copied the present Minnesota State prison, considered one of the most satisfactory buildings in the States. The plans submitted provide for the erection of four concrete and steel buildings, two stories high, and containing 360 all-steel cells, whose doors open outwards into a wide hallway which extends all around the building.

Provision is made for dining hall, hospital, chapel and kitchens, all on the most approved plans. Surrounding the entire buildings, a wall of stone eighteen feet high, four feet thick at the base and two feet at the top, is surmounted at each corner with a watcher's tower.

HE KNOWS WHEREOF HE WRITES.

An editor prints his paper to give his patrons the news of the day and for the money there is in it. He is presumed to know of what he writes, and he generally does. When he writes as he does in the *Leader Courier*, *Oaxaca Mills, Pa.*, without fee or hope of reward, that "Chamberlain's Cough Remedy" acts magically, and we found none better in our household, if you have a cough, try it; it may be accepted as an honest expression, worthy of credence. For sale by all druggists and dealers; Benson Smith & Co., Ltd., agents for H. I.



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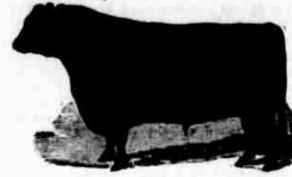
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- STERLING SILVER,
- FINE PLATED WARE,
- HAWAIIAN SOUVENIR SPOONS, (New Designs.)
- HAWAIIAN SOUVENIR CHINA, (Something New.)
- RICH CUT GLASS,
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- FRENCH CHINA,
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CAUTION.—Purchasers of Clarke's Blood Mixture should see that they get the genuine article. Worthless imitations and substitutes are sometimes peddled off by unprincipled vendors. The words "Lincoln and Midland Counties Drug Company, Lincoln, England," are engraved on the Government Stamp, and "Clarke's World-famed Blood Mixture" blown in the bottle WITHOUT WHICH NONE ARE GENUINE.

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- The New England Mutual Life Insurance Co., of Boston.
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