

JOHN T. WHISTLER ON OREGON SURVEYS

The following review of the work of the reclamation service in Eastern Oregon was contributed to the New Year's edition of the Oregonian by John T. Whistler, government engineer in charge of the work in Oregon. Mr. Whistler says:

The federal government, through the reclamation service, has been pursuing investigations during the past season, to 200,000 acres now val unless land in Umatilla and Morrow counties, in Malheur county and in Harney county. In all these projects the summer flow of the streams has been practically all appropriated and any further reclamation will involve the construction of more or less costly dams for retaining the flood waters of winter and early spring.

An idea of the cost of these dams is best illustrated by the estimates on the big dam proposed for the Nicaragua canal. Including controlling works and spillway, these were for \$3,000,000 to \$5,000,000, according to design. The final estimates adopted being for \$4,500,000.

The best interests of the country demand, and the reclamation service itself requires, that the cost of construction must not exceed the value of the enterprise when completed.

The largest project under consideration may not exceed 50,000 acres of land. When the value of such land, with water, but otherwise unimproved, is considered, it is readily seen that much study and the most thorough investigation is required of the reclamation service.

The irrigable land, as well as all reservoir sites and canal lines, are being gone over and carefully mapped, showing all differences of elevation of at most ten feet, and in some cases, where the ground is very flat, of as little as two and one-half feet.

This is generally done with a plane table, an instrument especially adapted to developing topography of large areas, and for this reason not generally used except by the government. In very flat countries it is often very difficult to see long distances over the sage brush, and illustrations are shown of instrument men carrying tops of houses and wind pump towers to obtain clear sights.

Probably the most important of all the investigations is that to obtain the amount of water available, the discharge of the various streams during the different months of the year.

The absolute necessity for such information is nicely illustrated by a well known irrigation system in Southern California. A costly dam was constructed, canals excavated and much money invested in improving lands and setting fruit trees.

The data of stream flow, on which this enterprise was based, was thought then to have been derived from a period of time sufficiently ample to justify construction. There has been no water at all in this reservoir for the past three years, and valuable improvements, such as orange orchards, have been utterly ruined, probably to the value of several times the cost of the enterprise in the beginning.

Appropriations by congress in previous years have not permitted measurements in many streams. This is now being taken up and pushed vigorously under the funds provided by the reclamation act. Except where earlier work has been done, sufficiently reliable data upon which to base estimates can hardly be expected with less than two or three years' measurements.

The method of obtaining the discharge of a stream throughout the year is as follows. A gage rod is fixed at some convenient point in the river and an observer employed to read and record the daily variations of the water. The amount of water passing at different stages indicated on the gage rod is determined by the use of a current meter. Cables are erected across the streams, and the hydrographer moves across in a suspended car, holding the current meter at various measured positions in the water.

The instrument automatically indicates the velocity of the water, and from this the discharge is estimated. Some 20 of these stations are being maintained at present. An illustration is shown of a station across the Umatilla river, near its mouth, with the hydrographer in the car.

JOHN T. WHISTLER,
Engineer U. S. Geological Survey.



FIBROID TUMORS CURED.

Mrs. Hayes' First Letter Appealing to Mrs. Pinkham for Help:

"DEAR MRS. PINKHAM:—I have been under Boston doctors' treatment for a long time without any relief. They tell me I have a fibroid tumor. I cannot sit down without great pain, and the soreness extends up my spine. I have bearing-down pains both back and front. My abdomen is swollen, and I have had flowing spells for three years. My appetite is not good. I cannot walk or be on my feet for any length of time.

"The symptoms of Fibroid Tumor given in your little book accurately describe my case, so I write to you for advice."—(Signed) MRS. E. F. HAYES, 252 Dudley St. (Roxbury), Boston, Mass.

Mrs. Hayes' Second Letter:

"DEAR MRS. PINKHAM:—Sometime ago I wrote to you describing my symptoms and asked your advice. You replied, and I followed all your directions carefully, and to-day I am a well woman.

"The use of Lydia E. Pinkham's Vegetable Compound entirely expelled the tumor and strengthened my whole system. I can walk miles now.

"Lydia E. Pinkham's Vegetable Compound is worth five dollars a drop. I advise all women who are afflicted with tumors or female trouble of any kind to give it a faithful trial."—(Signed) MRS. E. F. HAYES, 252 Dudley St. (Roxbury), Boston, Mass. —\$5000 forfeit if original of above letters proving genuineness cannot be produced.



DIFFERENT EYES

Even though similarly troubled must have different glasses. Spectacles fitted to any individual will only suit him or her, therefore a thorough test is necessary in every case. My optical parlor is equipped with every instrument necessary to make an absolutely accurate examination. Prices as low as first class work will permit.

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I have only a few Ladies Shoes, but can fit Any Man Men's Shoes made to fit

A. EKLUND
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Moved from Judd block.

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A. C. Koopman & Bros., Agts. for Pendleton

INTO VANCOUVER

GREAT NORTHERN NOW
IN BRITISH COLUMBIA

Hill Has Attained the Aim of Ten Years' Effort—He is Headed to Connect With the Grand Trunk and Ultimately for the Klondike—From the Klondike to the Lower Yukon.

Vancouver, B. C., Jan. 5.—The Great Northern has at least reached Vancouver over its own line. The opening of the year saw the running of the first train over the line just completed from New Westminster to this city. The Great Northern promised to have the line completed by

January 15, but it was a fortnight ahead.

The road connects at New Westminster with the branch to Cloverdale and Port Gulcher, on the Fraser, which in turn has connections with Victoria and Seattle by strictly Great Northern services. The Hill lines are now absolutely independent of all others in reaching Vancouver, Victoria and New Westminster, the three chief coast cities of British Columbia.

Hill has been working slowly but surely toward this end for a decade and now he has carried out plans conceived a long while back. All that now waits finishing is the provincial government bridge over the Fraser at New Westminster. Until that happens in the spring ferry cars must be used across the river.

It is given out on high authority that the branch just opened between here and New Westminster is the first link in a line to the north by means of which the Hill system will get connection with the Grand Trunk Pacific. If the Klondike then offers sufficient inducements, the cross country road will be carried to the Yukon and there will be an American system stretching from New York, through St. Paul and Spokane, to the United States possession of Alaska.

It is claimed that a line to the north would tap a country not alone valuable for its lumber and minerals, but possessing arable land sufficient to provide for all the Americans who rushed into the Canadian northwest this year.

SAN FRANCISCO SCARED.

Every Play House in the City Will Be Rigidly Inspected.

San Francisco, Jan. 5.—The letter from Mayor Schmitz to the board of public works, fire commission, police commission and chiefs of the fire and police departments, urging that an immediate inspection be made of all the places of amusement, is receiving due attention from the officials of these departments.

President Casey of the board of public works says that he will at once make rigid inspection of the play houses and report in detail to the mayor the conditions as he finds them.

How's This?

We offer One Hundred Dollars Reward for any case of catarrh that cannot be cured by Hall's Catarrh Cure. F. J. CHENEY & CO., Props., Toledo, O. We, the undersigned, have known F. J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm. WEST & THUAN, Wholesale Druggists, Toledo, O.

WALDING, KINNAN & MARVIN, Wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price 75c per bottle. Sold by all druggists. Testimonials free. Hall's Family Pills are the best.

Trial of Lieutenant Castleman.

Norfolk, Va., Jan. 5.—A court-martial convened at the navy yard here today for the trial of Lieutenant Kenneth Castleman, commanding the gunboat Yankton, on charges arising out of a collision in the harbor of Norfolk on November 27, in which the Yankton sank the tug Hustler and endangered the lives of eight men aboard. Lieutenant Castleman is the son of Gen. John B. Castleman of Louisville, Ky., and was recently married.

Bar Harbor, of Plattsburgh, Neb., aged 70 years, died in squalor Saturday last in a mud-chinked cabin in which were found \$500,000 in government bonds and certificates of deposit in Case county banks.

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Bright's Disease and Diabetes News.

Office Wine and Spirit Review, San Francisco, Oct. 12.—To the Editor of the East Oregonian.

Dear Sir:—The business men of this city who are now proclaiming to the world the discovery of the cure for Bright's Disease and Diabetes have asked me as one of the beneficiaries to write to some of my brother editors. Hence this letter to you. I was at first as skeptical as anyone. I had reason to be. I had a clear case of chronic Bright's Disease; was ill for a year. It was not thought I would live thirty days. The president of the Pacific States Type Foundry told my wife that the newly discovered diuretic would save my life, and against my private convictions I was put on it. In six months my recovery was complete.

A friend of mine, Dr. A. J. Howe, a prominent physician, was nearly dead with Bright's Disease. On my recovery I told him and it acted the same in his case and he is now well on the road to recovery. As a brother editor I personally assure you of the truth of the discovery. Thousands of lives are to be saved and I am writing in the hope that this letter will start some of them right.

Fraternally yours,
R. M. Wood, Editor.
The above refers to the newly discovered Fulton Compound, the first cure the world has ever seen for Bright's Disease and Diabetes. We are the sole agents. Ask for pamphlet. F. W. Schmidt's Pharmacy

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That way is to CURE the scalp diseases which are the source of those conditions.

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MEN The DR. LIEBIG STAFF only Specialists for men, continue to cure all chronic, private & nervous ailments, impotence, skin diseases, rheumatism, catarrh, etc. Dr. A. C. STODDART, Ph. G., for 27 years medical director 74 Sixth Street, Portland, Oregon; 111 Yeaser Way, Seattle, Wash. Call or write

ANNUAL STOCKHOLDERS' MEETING. TO WHOM IT MAY CONCERN: Notice is hereby given that the regular annual stockholders' meeting of the Goldcoada Consolidated Gold Mines Company will be held at the office of the company in the Pendleton Savings Bank building, Pendleton, Oregon, at 11 o'clock A. M. on Tuesday, January 12, 1904. At such annual meeting an election will be held for the election of directors of the said corporation and all other and general business pertaining to the affairs of the company will be transacted that may come before such meeting. Dated December 9th, 1903. J. B. BAILEY Secretary. C. F. WADE President.

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