

The Tillamook Headlight.

Fred H. Baker, Publisher.

WOOD DISTILLATION.

The Forest Service Takes Up the Study of This Method of Utilizing Waste in Logging and at the Mill.

Wood distillation has been tried in this country so extensively of late, and has been brought so prominently to the attention of the Forest Service as a means of utilizing waste in lumbering, that a careful and thorough investigation is to be made by the Service, covering both what has been accomplished in this industry and what may be done to reduce it to more scientific principles and to place it upon a sound commercial basis. The various processes now in use will be studied and compared, as well as the resulting products and the uses to which they are or may be put.

To push this study to early and useful results with the last possible delay, Mr. Thomas W. Pritchard, a practical expert in wood distillation, has been engaged by the Forest Service to devote his entire time to the work. Mr. Pritchard, who is a trained chemist, has for several years been connected with successful distillation plants in the South. He has already begun with the Forest Service, and will at once communicate with the owners of wood-distillation plants throughout the county to first determine the degree of success to which the business has reached. He will then closely examine the methods which have resulted most successfully, and attempt to extend their use. He will pay particular attention to the extent to which lumbermen may adopt wood distillation as a means of turning into useful products the tops, slabs, and other waste of sawmills, which are often at present a total loss.

Destructive distillation consists in driving out all the liquid matter in the wood and collecting and condensing them afterwards. Intense heat is employed, and the original form of the wood is changed chemically into various liquids and pure carbon. The wood is closely placed in a steel retort, with the doors tightly sealed, and fires are started in the furnace beneath.

In a few hours distillation begins. The liquids are driven from the wood, are changed to vapors, and pass off through a pipe at the top of the retort, which leads to a condenser or worm, immersed in water, where they are condensed in the order of their gravity. Again restored to liquid form, they then pass through the rest of the coil and run into collecting tanks. The gas, the lightest of the products, rises to the top of the coil and is piped off.

The liquid products are redistilled in a secondary still into the various oils and by-products. Thus, the thin, amber-colored oil, which is one of the products of the first distillation, is changed in the second still into wood spirit of turpentine, a light oil, and a heavy oil, the residue being tar. This process, which is done carried on at several successful plants, is only one of those which the Forest Service is to take up critically.

The outfit for a plant with a capacity of 100 cords of wood every thirty-six hours, which is as small as can be profitably handled, consists of a "battery," or two retorts holding 5 cords of wood each. These retorts are set in brickwork, about 50,000 bricks being required for a "battery." In addition are needed a coil or condenser of copper, a copper still of a capacity of 1,000 gallons, a second condenser, sufficient collecting and storing tanks, a boiler of not less than 10 horsepower, and pumps to handle the products. All piping should be, if possible, of copper, except after the second distillation, and the pumps should be brass lined.

From such a plant the yield should be approximately from 75 to 100 gallons of oil or tar per cord, and from 10 to 15 gallons of wood turpentine. There are also produced about 25 bushels of charcoal and pyroligneous acid in quantities about equal to the oil. The amount of products is in direct ratio to the resinous constituents in the raw material. The value of the products is variable. If properly made, the tar should bring the average market price of pine tar, and the spirits sell for from 15 to 5 cents below the market price of spirits of turpentine. If no tar is made, and oil is produced, the latter must be made into special preparations, such as wood preservatives, paints, stains, disinfectants, or any one of a dozen other products. The demand for wood creosote oil in the state in which it comes from the still is limited.

The application of wood distillation to the utilization of waste material both from the lumber mills and from the cut-over coniferous forests of the South is beyond question. Any mill waste which is rich in resinous products can be used, and the very best results are obtained from the down timber and stumps in the cut-over pine forests. Most of the lumbermen have timber holdings which contain material suitable for distillation. The great sawmills of the Pacific coast have a large proportion of such material in the slabs which now have little or no use. By using the down timber in the woods the fire risk is greatly minimized, since any and all material suitable for wood distillation is necessarily of a most inflammable nature. In many cases even the roots as well as the stumps may be used for distillation, thus greatly

lowering the cost of clearing land for agricultural purposes.

The Forest Service is most desirous to secure the hearty cooperation of all who are interested in the industry. Suggestions and ideas of a practical nature will be gladly received and carefully considered.

Ex-Congressman Shafroth Replies to Cleveland.

Ex-Congressman John F. Shafroth has replied at length to the article by Ex-President Cleveland in the Ladies' Home Journal, entitled "Would Woman Suffrage be Unwise?" In his reply Mr. Shafroth has completely demolished every theory of Mr. Cleveland and denied about every statement that he made of so-called facts.

In replying to Mr. Cleveland's assertion that "even if every woman should exercise the right of suffrage, the votes of the thoughtful and conscientious would almost certainly be largely outweighed by those of the disreputable, the ignorant, the thoughtless, the purchased and the coerced," Mr. Shafroth says:

"In that declaration the assumption is made either that the bad and ignorant women are in the majority, or that the good woman will not vote, both of which I most emphatically deny.

Who are these women whom you seem to fear will have a corrupting influence on elections if given the right to vote? They are our mothers, our wives and our daughters. Is there a man in high or low life, in moral or degraded position, who believes his mother, wife or daughter would be more corrupt than he in exercising the elective franchise?

Woman's influence has always been for good, and in no sphere has this been better demonstrated than in politics. The election polls since the advent of woman suffrage in Colorado, with the exception of a few in the low parts of the cities, have been transformed into as respectable places of meeting as dry-goods stores or public halls. As a general rule the rowdy element, which was once wont to assemble at and remain around the polls all day, is wanting.

The precinct caucuses for primaries are usually held at the residences of the most respectable people. The restraining influence of the presence of women has greatly improved the tone of political conventions.

This influence has been felt most, perhaps, in the character of nominations made by each political party. Many men, after denouncing a candidate as dishonest and immoral before his nomination, support him at the election because they believe that they must have a consistent party record in order to get subsequent recognition from their party. Women have no political records to keep consistent.

To such an extent is the moral influence of women felt that if an immoral candidate is mentioned the argument is immediately used that the women will not support him, and he is generally defeated for nomination, or his name is not presented to the convention.

Woman's presence in politics has introduced an independent element which compels better nominations and better officials."

The Hearst-McClellan recount in New York has settled down into a long struggle. A stern chase after Tammany crookedness is naturally a long chase.

Apropos of thanksgiving, can the country from year to year show as great an improvement in moral stamina and right purposes as in business statistics?

Since Mr. Bryan left the country Pennsylvania has gone Democratic, and silver has reached its highest price in five years. But perhaps these facts are a mere coincidence.

Secretary Shaw announces that he has recently funded into 2 per cents \$52,000,000 of government 4 and 3 per cents. This is one of the savings that count, though not included in the monthly statement of receipts and expenditures.

The sultan has decided that a holy war, like all other varieties, is too expensive to be indulged in without a great deal of deliberation.

It is gratifying to know that Presidents' messages, while still lengthy, do not expand with the nation's growth in population and wealth.

President Castro is such a light weight in his physical makeup that he can neither hold the lid on nor push it off.

Property to Exchange.

Wanted, to exchange, good Portland property for deeded timber land. Address, Gladstone, No. 512 1/2 Savier street, Portland, Or.

Torture of a Preacher.

The story of the torture of Rev. O. D. Moore, pastor of the Baptist church, of Harpersville, N.Y., will interest you. He says: "I suffered agonies, because of a persistent cough, resulting from the grip. I had to sleep sitting up in bed. I tried many remedies, without relief, until I took Dr. King's New Discovery for Consumption Coughs and Colds, which entirely cured my cough, and saved me from consumption." A grand cure for diseased conditions of Throat and Lungs. At Chas. I. Clough, druggist; price 50c, and \$1.00, guaranteed. Trial bottle free.

Dumb Dogs "That Cannot Bark."

TO THE EDITOR TILLAMOOK HEADLIGHT. I notice, Mr. Editor, in a recent issue of your paper a timely hint from some one of your patrons in which occurs the statement "That no word of approval or sympathy so far as know had been uttered by any of the resident ministers to aid or encourage you in your fight against the wrongs of the county and town."

One of the old prophets has represented the minister of God as a watch dog, whose business it is to faithfully guard the property and life of that which is committed to his trust, and the prophet especially calls attention to three classes of dogs: "Sleepy dogs," lying down in their ease and loving to slumber, which can never have enough; "Greedy dogs," only wanting something to eat and wear and feast upon the fat of the land, and I suppose that includes "chicken" pot pie; and another class is "Dumb dogs," that have lost their barking qualifications, and of all sad and pathetic feelings in the canine life. It must be when the wolves are tearing and destroying the master's flock, and he cannot bark and arouse his master, or frighten the beasts of prey, all such a dog can do is to howl and whine. Now, in view of the suggestion of our brother "Observer," if a recent arrival be allowed to bark, allow me to say, that I do not believe there is a resident minister in this town but what is known to every man and woman in the city and country adjacent to the city of Tillamook, to be an open and avowed enemy to the saloon, the gambler and all social impurity and every form of sin.

If my friend and brother writing the article, does not believe it, let him walk down the streets of Tillamook in company with any one of the resident ministers, and with his wide open eyes "observe" the cold looks and ironical expressions of a certain element in the city which stand for a wide open town. It would look as if common courtesy in business life would at least grant you a salutation and a "pleasant good morning," but if you break through their freezing looks and salute them, some of them will not reply at all, or simply do what a well fed porker can always do, and that is to grunt. What is the trouble? The minister has not killed or robbed anyone, so far as known, he is living a decent respectable life, he stands for decency and honor, and the welfare of the public good, and entitled to a certain measure of civility and courtesy. But these who stand for villainess and indecency, know he is a "barking" dog.

A certain minister in this city was severely criticised through one of the papers of this town, which should represent decency and uprightness, because he barked too soon.

In the humble opinion of the writer, a dog had better bark too soon than not bark at all.

J. E. CONNOR.

TO THE EDITOR TILLAMOOK HEADLIGHT.

As I read the letter, "A Word of Praise" in last week's Headlight from an Octogenarian, I was forced to go to my dictionary, if possible, to learn what denunciation or persuasion an Octogenarian was. Of course I had a good hearty laugh all to myself, as I read Webster's definition. But that is not the point I wish to talk about, but it is this, Mr. Editor: I, too, am an observer and live in the south end of the county, and I feel safe in saying that it goes without saying among the better element of society, all law abiding citizens, and all who believe in law and order—and by the way I am proud to believe almost, if not all of us, really love everything that is right, even if a very few of us do happen to fall slightly below, it goes without saying that the Headlight has and is still doing a great deal as a moral force, and too much credit cannot be given its able editor for what he has and is still doing so make and keep Tillamook county one of the most desirable places in this grand old world for all or any of our rising generation. And we should by all means see to it, not only that we help maintain and support such newspapers by subscribing for and advertising in its columns, but induce others to do so. And as we will be called upon all over our country in the near future to celebrate the birthday of Him who came to bring peace on earth and good will to man, and for nineteen centuries the gospel has been taught, now suppose on this His coming birthday we all make it a point to at least examine our literature and any periodical or books that sneers and scoffs at those periodicals or books that are out and out for our best interest in the present and future of our children, our homes our eternal destinies, let every minister urge the parent, as they love their offspring, to drop such literature and turn from it as they would get away from a mad dog, or off of the track of the fast bound train. Mr. Preacher, let us hear from you on Christmas, if not before. I cannot sign myself as an Octogenarian for 22 years yet, but am for the best newspaper—the Headlight.

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This is to certify, that I have this 27th day of December, 1904, inspected and examined the Nursery Stock of Mr. E. P. Smith, of The Eastwood Nurseries, Gresham, Oregon, and so far as I am able to ascertain, have found it in good, marketable condition and clear of any serious insect pest or disease. Their methods of handling and growing stock are first class.
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TIMBER LAND, ACT JUNE 3, 1878.—NOTICE FOR PUBLICATION.
United States Land Office, Portland, Oregon, October 9th, 1905.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada and Washington Territory," as extended to all the Public Land States by act of August 4, 1892,
RUTH WILKES, Of Hobsonville, county of Tillamook, State of Oregon, has this day filed in this office her sworn statement No. 668, for the purchase of the N 1/2 of Sw 1/4, Sw 1/4 of Sw 1/4, sec. 34, and Ne 1/4 of sec. 34, of section No. 33, in Twp. No. 2 N, Range No. 10 W, and will offer to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish her claim to said land before the County Clerk, at Tillamook City, Oregon, on Saturday, the 6th day of January, 1906. She names as witnesses:
Louis L. Smith, Andrew Peterson, of Hobsonville, Ore.; Robert Watt, of Bay City, Ore.; Harry Crane, of Hobsonville, Ore.
Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 6th day of January, 1906.
ALGERNON S. DRESSER, Register.

TIMBER LAND, ACT JUNE 3, 1878.—NOTICE FOR PUBLICATION.
United States Land Office, Portland, Oregon, October 23rd, 1905.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada and Washington Territory," as extended to all the Public Land States by act of August 4, 1892,
ROBERT LODDEN, Of Portland, county of Multnomah, State of Oregon, has this day filed in this office his sworn statement No. 669, for the purchase of the E 1/2 of Nw 1/4 and E 1/2 of Sw 1/4 of sec. No. 12, in Township No. 1 South, Range 7 W, and will offer to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before the County Register and Receiver, at Portland, Oregon, on Tuesday, the 9th day of January, 1906. He names as witnesses:
Alexander Mcintosh, G. Shepherd, C. H. Osborn, and W. H. Petrie, all of Portland, Or.
Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 9th day of January, 1906.
ALGERNON S. DRESSER, Register.

TIMBER LAND, ACT JUNE 3, 1878.—NOTICE FOR PUBLICATION.
United States Land Office, Portland, Oregon, November 20th, 1905.
Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada and Washington Territory," as extended to all the Public Land States by act of August 4, 1892,
GEORGE B. LAMB, Of Tillamook, county of Tillamook, State of Oregon, has this day filed in this office his sworn statement No. 672, for the purchase of the E 1/2 of Sw 1/4 and W 1/2 of E 1/4 of sec. No. 24, in Twp. No. 1 S, Range 10 W, and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes, and to establish his claim to said land before the Register and Receiver of this office at Portland, Oregon, on Tuesday, the 13th day of February, 1906. He names as witnesses:
Wayne W. Wiley, Charles A. Johnson, of Tillamook, Or.; Eric Fredrickson, Trass, Or.; Chas. I. Clough, of Tillamook, Or.
Any and all persons claiming adversely the above described lands are requested to file their claims in this office on or before said 13th day of February, 1906.
ALGERNON DRESSER, Register.

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