

MARSH LANDS

50 PER CENT. VEGETABLE MATTER.

THE EVENING HERALD

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KLAMATH FALLS, TUESDAY, AUGUST 10, 1909.

IRRIGATION WONDERS

Government Engineer Tell Some Interesting Things About Projects Now Under Construction.

Ability to learn without previous farming experience is the best asset for the newcomer on irrigated lands, says C. H. Swigert, supervising engineer for government reclamation projects in Washington. Swigert with the supervising engineers of other district attended the meeting held recently with R. A. Ballinger, secretary of the interior.

"The men who make the greatest failures on irrigated lands are the men who think they know about farming," he asserted. "Men who have had previous experience on farms come west with the idea that they have nothing left to learn. As a result they give the land too much water or too constantly; it sours or the alkali comes to the surface and the property is rendered valueless.

Needs Artistic Touch.

"Many people think you dig a ditch and get the water to the land and the sun and the earth and the Lord do the rest," Mr. Swigert continued. "As a matter of fact the artistic touches are applied after the crop has been sowed. Under drainage is all important. Land that is soggy must be artificially provided with under drainage.

Much of the land that we irrigate, however, will drain itself if not given too much water. But I find that in nearly every case the newcomer wants to use too much water. Plant life, though, needs only so much water. More than that is injurious. This is true of irrigated land, as it is of those sections where natural rainfall furnishes the water supply."

Mr. Swigert is just completing the Tieton project, the largest ever undertaken by the government in Washington. It involves some ex-

tremely difficult and peculiar engineering features. In places the canal hangs on the mountain side; in another place it passes through a tunnel 10,000 feet long. The whole twelve miles of its length is lined with cement to keep the water from leaking away.

Moved Canal Up Mountain.

It was not found practicable to spread the cement out in layers like a clister in the valley, so the canal was built entirely down in the valley before it was moved up on the mountain side and set in place. It was, of course, impossible to make it all in one piece, so semi-circular forms eight feet in diameter and transversely two feet wide were molded. These were found to fit perfectly together when set in place. In the tunnel the shapes were made six feet in diameter, circular in form.

The canal carries 300 second feet and supplies 30,000 acres of rich land with water; this land all being less than twenty miles from North Yakima.

At the present time a dam is under construction which will store the waters from Bumping lake in a huge reservoir holding 34,000 acre feet, and will be completed in 1910.

Needs Too Vast.

"The reason we do not state the number of gallons a reservoir will hold is because the sums are too great for comprehension," Mr. Swigert explained. "An acre foot of water means that water to the depth of one foot has been spread over one acre. To reduce it to gallons you multiply by 300,000. With the reservoir holding 34,000 acre feet you get the multiple suggested you have 10,200,000,000 gallons. Isn't that a little hard to comprehend?"

Mr. Swigert is building a dredge on the Sunnyside canal in Washington which will increase the flow of the channel from 650 to 1,000 second feet, and will water about 10,000 acres. More than 5,000 acres of this amount is now under intensive cultivation, producing fruit, alfalfa and hops. The Okanogan project will cost about \$600,000, and will water about 10,000 acres, of which 3,500 are already supplied with water, the distributing system having been completed. The Conconully dam now being constructed for this project will create a reservoir which will store 13,000 acre feet of water.

Water supplied by these systems will be applied continuously or by the rotative plan, i. e., one section getting water during a certain period of time; other sections being supplied in their turn.

WHAT DYNAMITE IS AND HOW IT IS MADE

Interesting Information Concerning a Much-Used and Little-Known Explosive.

Few people know what dynamite is, though the word is in common use. It is a giant gun powder; that is, an explosive material varying in strength and safety of handling according to the percentage of nitro-glycerine it contains. Nitro-glycerine, whence it derives its strength, is composed of ordinary glycerine and nitric acid, compounded together in certain proportions; and at a certain temperature. Nitro-glycerine, though of the strongest explosive known, being exceeded in power by nitrogen and other products of chemistry, is thus far the most terrible explosive manufactured to any extent. Nitro-glycerine by itself is not safe to handle, hence dynamite is preferred. It is extensively made and consumed in the United States under the various names of Giant, Hercules, Jupiter and Atlas powders, all of which contain anywhere from thirty to eighty per cent of nitro-glycerine, the residue of the compound being made up of rotten stone, non-explosive earth, sawdust, charcoal, plaster of paris, black powder or some other substance that takes up the glycerine and makes a porous, spongy mass.

Nitro-glycerine was discovered by Salvoro, an Italian chemist, in 1845. Dynamite is prepared by simply kneading with the naked hands twenty-five per cent of infusorial earth and seventy-five per cent of nitro-glycerine until the mixture assumes a putty condition, not unlike moist brown sugar. Before mixing the infusorial earth is calcined in a furnace, in order to burn out all organic matter, and it is also sifted to free it of large grains. While still moist it is squeezed into cartridges, which are prepared of parchment paper, and the firing is done by fulminate of silver in copper capsules provided with patent exploders.

Nitro-glycerine is made of nitric acid one part and sulphuric acid two parts, to which is added ordinary glycerine, and the mixture is well washed with pure water. The infusion is composed of small microscopic silicious shells, which have lost their living creatures. The cellular parts receive the nitro-glycerine and hold it by capillary attraction, both inside and out. The earth is very light. Water is expelled from it by means of a furnace, and then, in the form of a powder, it is mixed with nitro-glycerine. Nitro-glycerine has a sweet, aromatic pungent taste, and the peculiar property of causing a violent headache when placed in a small quantity on the tongue or wrist. It freezes as 40 degrees Fahrenheit, becoming a white, half crystallized mass, which must be melted by the application of water at a temperature of about 100 degrees Fahrenheit.

AS USUAL—IT WAS THE WOMAN

A woman came down town shopping. She first entered a furniture store and bought a hammock. The dealer said, "I have been advertising these hammocks for two weeks."

"I never read the ads in a paper. I go till I find what I want." Whereupon the furniture man ceased advertising.

Another woman called at a dry goods store and priced some dress gingham. When told the price, she asked, "You will sell at the same figure that ——— is advertising his gingham for, won't you?" The dealer hesitated a minute and said, "Yes; if he can afford to sell at that price, I can, too." After the woman left he reasoned thus: "If ——— advertises and fixes a price that I have to meet, I'll fix my own prices by advertising."

Then some women go about saying that woman's influence should be enlarged by placing the ballot in her hand. Heigh-ho! Poor little dears! So innocently do they run the whole universe that they chatter away and shape even the destinies of nations while sipping tea or change business policies while buying a yard of lace.

NAVY AND STATE CLASH

A recent dispatch from Provincetown, Mass., states that complications between the state and federal authorities are probable as the result of a refusal by Admiral Schroeder of the Atlantic fleet to surrender David W. Williams to answer for the death of H. H. Foster, a mess attendant on the battleship Vermont, who died after a boxing bout with Williams on that vessel, when Detective Bradford of the state police demanded Williams of the naval authorities to answer a charge of manslaughter. Admiral Schroeder in refusing to give the man up to the state authorities stated that he did not deny the jurisdiction of the state, but that the government had instituted an inquiry, and he wished to wait until that investigation had been concluded before acting further in the matter. He promised Bradford that he would notify him of the result of the inquiry and as to whether he would give up Williams. It was stated that if the man will not be surrendered by Admiral Schroeder Attorney General Malone will take the matter up with the authorities at Washington.

WORDS OF WISDOM.

One plows, another sows—each will reap no one knows.

Before you marry be sure of a house wherein to tarry.

Hear one man before you answer; hear several before you decide.

Where you cannot climb over you must creep under.

A bridle for the tongue is a necessary piece of furniture.

WANT ADS.

FOR SALE—Real Estate.

FOR SALE—A new bungalow, with 8 rooms and bath; fine location on hillside near High School. Inquire at Herald office.

FOR SALE—80 acres, 60 acres in crop; 3 horses, wagon, set of harness, 2 cows, 225 chickens; 6-room bungalow, furnished, 4 miles from town; \$100 per acre; easy terms. H. E. Pointer, Klamath Falls.

HELP WANTED.

AGENTS wanted in every town for the Steel Adjustable Homeless Horse Collars. No pads, hames, straps; can be used with any kind of tag attachments. Will not gall horse or wear out. Will not corrode or rust. Price \$6.00 each. Ask your dealer. Write for literature. Address Nelson Wilver Company, exclusive distributors, Pacific Coast States, Albany, Ore.

THE Oregon Nursery Company of Salem, Oregon, the largest and best-known nursery company in the Northwest, has openings for two or three steady and reliable salesmen for Southern Oregon and Northern California territories. Full information upon request. Address Oregon Nursery Co., Salem, Oregon.

WANTED—Girl for telephone operator; one with experience in the work preferred. Apply at Klamath Falls office.

MISCELLANEOUS.

FOR SALE—Miscellaneous.

FOR SALE—At a bargain: a No. 5 Oliver typewriter, with 15-inch carrier, in first-class condition; a \$110 machine for \$75. Call at O. K. Transfer office and see it.

FOR SALE—Freight outfit, complete, consisting of 8 horses and harness, stretchers and chains, 2 No. 1 wagons; capacity of wagons, 30,000; all in No. 1 condition. Merrill & Son, Park stable, Merrill, Ore.

MISCELLANEOUS.

THE Southern Pacific has now on sale round trip tickets to Seattle, good for sixty days, with privilege of

stopover at any point en route for \$28.75. The final limit on these tickets expires October 31st.

ORDER your ice from O. K. Transfer company.

FURNISHED rooms and apartments at the Haldwin.

CEMENT—Imported cement just received; carload Alisen cement in iron barrels. Baldwin Hardware Co.

TO EXCHANGE.

TO EXCHANGE—California for Oregon: 180 acres deeded land, title perfect, no mortgage; fruit, grain and grapes. For acreage at or near Klamath Falls, H. D. Sibley, P. O. box 547, San Bernardino, Cal.

NOTICE OF SETTLEMENT OF FINAL ACCOUNT

NOTICE is hereby given that Alex Martin Jr., administrator of the estate of Rodney S. Bowen, deceased, has filed with the County Court at Klamath County, Oregon, for settlement his final account in the administration of the said estate; and that Monday, August 30th, at 2:00 p. m. at the courthouse in said county and State is the time and place fixed for the hearing of any and all objections to said final account and the settlement thereof, and any person interested may appear and file exceptions to said account and contest to same.

ALEX MARTIN JR., Administrator of the Estate of Rodney S. Bowen, Deceased.

SHERIFF'S SALE.

Whereas, judgment was rendered and entered on the 26th day of April, 1909, in an action in the Justice Court for the Precinct of Linkville, Klamath County, State of Oregon, before A. D. Miller, Justice of the Peace for said precinct, between H. W. Keesee, plaintiff, and J. E. Sullivan, defendant, in favor of plaintiff and against defendant for the sum of Seventy-five dollars (\$75) with interest thereon at the rate of Six (6) per cent per annum from the 26th day of April, 1909, and the further sum of Thirteen and Twenty-five One-hundredths dollars (\$13.25) costs and disbursements; and whereas a transcript of said judgment and proceedings had before said justice of the peace in said case has been filed in the office of the County Clerk of Klamath County, Oregon, and which said judgment was duly docketed in the judgment docket of the Circuit Court of the State of Oregon for the County of Klamath, on the 12th day of May, 1909, and the sum of Seventy-five dollars (\$75), with interest thereon at the rate of six (6) per cent per annum from the 26th day of April, 1909, and Thirteen and Twenty-five One-hundredths dollars (\$13.25) costs and disbursements of said action is now due thereon; and by virtue of an execution issued by the Clerk of the Circuit Court of the State of Oregon for the County of Klamath, on said judgment, commanding me to satisfy said judgment, interest and costs out of the personal property of said J. E. Sullivan, and for want thereof, then out of the real property belonging to said J. E. Sullivan, in said County of Klamath and State of Oregon, and not being able, after diligent search and inquiry, to find any personal property belonging to J. E. Sullivan in said county, out of which to satisfy said judgment or any part thereof, I have levied upon the following described real property of the defendant J. E. Sullivan, to-wit: SE ¼ of SE ¼ of Section 21, NW ¼ of NW ¼ of Section 27, E ¼ of NW ¼ of Section 28, Township 37 South, Range 13 East of Willamette meridian in Oregon.

Notice is therefore hereby given that by virtue of said execution I will, on Monday, the 30th day of August, 1909, at the hour of 2 o'clock in the afternoon of said day, at the front of the courthouse door in Klamath Falls, Oregon, sell at public auction to the highest bidder for cash in hand, the above described real property, or so much thereof as may be necessary to satisfy said judgment in favor of H. W. Keesee and against J. E. Sullivan, together with all costs and disbursements that have or may accrue.

Dated at Klamath Falls, Oregon, this 30th day of July, 1909.

W. B. BARNES, Sheriff of Klamath County.

REFRIGERATORS

Cold Storage White Enamel Food Chamber
\$21 to \$24.50



Reliable galvanized Food Chamber

\$17 to \$21



ROBERTS & HANKS
HARDWARE MERCHANTS

Choice Garden Lands FOR RENT

A few plots of choice land for garden; Potatoes, Cabbage, Celery or other truck, under irrigation and convenient

FRANK IRA WHITE

CAPT. O. C. APPLIGATE Fifth Street near
Has some Lot Bargains for you

China and Glassware

Don't you want some nice Dinner Ware, Fancy Plates, Tumblers, Jardiniere, Ornaments, Chamber Sets, Coolers, Freezers—things useful and ornamental for your home and table? We carry such beautiful China as the Harbor in plain and gold rimmed. See our extensive display. Largest stock in the city and at such low prices.

GEO. R. HURN

HARDWARE DEALER

O. K. TRANSFER CO.

Keep us moving; we are prepared for work. Teaming, draying and forwarding. Is not Reliable and prompt service worthy your attention? Day or Night. We're not a common number phones, office 871 and 873 the bar. Say: Baggage and Pianos are specialties. Freight orders handled quickly. No bluff. Equipped with the only piano truck here. Reasonable rates on goods stored. Better call or phone us before placing orders.

O. K. TRANSFER CO.

Helping the Town . . .

By banking your money in a bank in your own community you increase the community's power to do business. If substantial farmers want to borrow money there is more to loan them. If you bank your money away from home it is loaned to other farmers, merchants and manufacturers. Help your home people. Money hidden at home helps no one. Placed in a bank it is put to work in ways that help all.

The First National Bank of Klamath Falls

is a good bank to put your money in—safe and reliable.

A Savings Account . . .

is a rainy day fund, a life insurance policy, a sick benefit, a funeral benefit, and an old age pension. There is no forfeiture clause in the passbook, and it is under the owner's control at all times. It will tide him over sickness; it will care for his family when he must go; it will see him through old age, and bury him when he dies. It is a simple business proposition. Begin early, and keep it up, and, like manna in the desert, it will supply him as he journeys.

Now is the time to open an account with the

The First Trust and Savings Bank

Not a Cheap "Stick" in the House

DOLBEER,
THE FURNITURE MAN

But every piece of Furniture in this store is in itself a work of art; as near perfect as the best of material and workmanship can make. Every purchaser has the satisfaction of knowing that he has the best that money and unexcelled opportunities for buying can obtain, and has furniture that will be a credit to any home.

Bring your furniture orders here and have the supreme satisfaction of knowing that no one any place has any better.