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GREAT NORTHERN RAILWAY

NOTICE FOR PUBLICATION.
 Department of the Interior,
 U. S. Land Office at The Dalles, Or.
 June 26th, 1911.

Notice is hereby given that James A. Holmes whose postoffice address is Bend, Oregon, and on the 13th day of March, 1911, filed in this office sworn statement and application No. 2511, to purchase the swampy, sec. 2, T. 20 S., R. 11 E., W. M., and the timber thereon, under the provisions of the act of June 8, 1908, and the acts amendatory, known as the Timber and Swampland Act, at such value as might be fixed by appraisement, and that pursuant to such application, the land and timber therein have been appraised at \$100, the timber estimated at \$100 per acre and the land \$100 per acre, and applicant will offer final proof in support of his application and sworn statement on the 13th day of October, 1911, before H. C. Ellis, U. S. Commissioner, at his office at Bend, Oregon.

Any person is at liberty to protest this purchase before entry, or to initiate a contest at any time before patent issues, by filing a corroborated affidavit in this office, alleging facts which would defeat the entry.

C. W. MOORE, Register.

SUMMONS.
 In the Circuit Court of the State of Oregon for the County of Crook.
 Lorenzo D. Fox, Plaintiff
 vs.
 Alberta E. Fox, Defendant
 To Alberta E. Fox, above named defendant

IN THE NAME OF THE STATE OF OREGON: You are hereby commanded to appear and answer the complaint filed against you in the above entitled suit on

ELECT OFFICERS

NEW IRRIGATION COMPANY ORGANIZED

Work to Start Next Month on Suttle's Lake Project—Plans for Watering 12,500 Acres Have Been Filed With the State Engineer

The organization meeting of the Suttle's Lake Improvement Co. was held in Bend on the 29th. At this meeting the entire amount of authorized capital stock, \$40,800, was subscribed and Z. M. Brown, J. W. Howard and L. D. Wiest elected directors. The board organized by electing J. W. Howard, president; Z. M. Brown, vice president and treasurer, and L. D. Wiest, secretary.

The directors decided to begin construction of the company's system as soon as possible, employing Mr. Wiest as chief engineer. As soon as necessary tools, men and teams can be secured, probably about Oct. 10, work will start.

During the last few years, Messrs. Brown, Howard and Wiest have been associated in doing preliminary work on this system. They investigated water sources in the vicinity of Blue and Suttle's lakes, meandered and measured the area of these lakes and reservoir surfaces for different depths, made surveys and a definite location for a canal from Lake Creek, secured permits from the state for the appropriation of the waters of Lake Creek and the right to construct a reservoir covering Blue and Suttle's lakes, and filed maps and field notes with the U. S. Land Office in connection with application for rights over public domain.

The plans for the system as filed in the office of, and approved by, the state engineer shows the contemplated construction of a canal 30 feet wide, 3.5 feet deep and 34.4 miles long, with a carrying capacity of 160 lineal feet flow of water a second, and to irrigate about 12,560 acres; also the construction of a dam at the foot of Suttle's lake approximately 1500 feet long and 55 feet high for reservoir purposes. The reservoir will submerge Suttle's and Blue lakes, storing 22,000 acre feet of water. The land to be irrigated is in T. 14 and 15 south, R. 11 and 12 east.

"This is not a Carey Act project," said Mr. Wiest in reply to an inquiry, "but very similar to the Arnold system. The financial plans will be radically different however, the Suttle's Lake company starting business with an unimpaired capital stock."

For the present, it is understood, there will be no sale of water rights.

Couldn't Fool Him.
 Serring in the capacity of collector for a local bank is a colored man who spends his evenings playing in an Oakland band.

One of the clerks in the bank, knowing of the clerk's musical attainments, said to him, "Joe, I went to a vaudeville show last night, and one of the fellows there played 'Traumerel' great!"

Joe looked at him suspiciously for a moment and then said: "You tell that stuff to Benny. You don't get me to bite, 'cause Ah knows the 'sint' no such instrument."—San Francisco Chronicle.

A Simple Antidote to Poison.
 It is a valuable thing to understand thoroughly what simple antidote to take if one is so unlucky as to swallow poison of any kind. Sweet oil is to be found in nearly every house, however humble, and half a pint of it taken immediately is an effectual antidote to almost all poisons. Any one with a strong constitution should take a larger quantity of this simple remedy.—London Family Herald.

Household Debate.
 "I could have done better than to marry you."
 "You bring that question up at inopportune times, my dear. Suppose you place a regular weekly evening on the calendar, to be devoted to its discussion."—Pittsburg Post.

Sufficient Proof.
 Lady—And you guarantee that the piper talks quite a lot? Doubtful. His last mistress sold him because she couldn't get a word in edge ways.—Fleegende Blatter.

Quite a Linguist.
 "My husband speaks three languages fluently."
 "English, French and German?"
 "No, Baseball golf and aviation."—Chicago Record-Herald.

Public Land Sale. Not Coal Land, Department of the Interior, U. S. Land Office at The Dalles, Oregon, August 16th, 1911.

Notice is hereby given that, as directed by the Commissioner of the General Land Office, under provisions of Act of Congress approved June 22, 1911 (34 Stat. 517), we will offer at public sale, to the highest bidder, at 12:00 o'clock a. m., on the 13th day of October, 1911, at this office, the following described land: E 1/4 S 1/4, sec. 15, N 1/4 NE 1/4, sec. 19, T. 20 S., R. 11 E., W. M., Serial No. 9877.

Any persons claiming adversely the above-described land are advised to file their claims or objections, in or before the time designated for sale.

C. W. MOORE, Register.

SPEED OF A SHOT

Finding the Velocity of a Missile a Simple Matter.
 MEASURED BY A PAPER DRUM.

The Whirling Cylinder Registers the Projectile's Flight With Minute Accuracy at Any Desired Distance. Wing Shots and Shot Charges.

Persons at all interested in gun firing of any kind, whether of the revolver or rifle or of heavy ordnance of any kind, occasionally come upon the term "muzzle velocity" and velocities of the missile at stated distances.

"How can anybody tell how fast a bullet is travelling when it leaves the muzzle of a weapon?" is a likely comment on the part of the layman.

As a matter of fact this approximate velocity of the missile may be one of the easiest of determinations to make.

In the first place, a drumlike cylinder is made of fixed diameter and of sufficiently stiff paper to allow of its revolving rapidly on a spindle. Using a cylinder of small circumference, it is necessary that the speed approach 2,000 revolutions a minute. These revolutions are produced by electric power, and the count is made by an exact mechanical register.

The gun is placed securely at the required distance from the drum and is sighted directly at the center of the cylinder, which is spinning at so many rods, even miles, a minute, as its circumference determines. With the drum's speed adjusted an electric current discharges the weapon, the bullet striking the center of the drum as measured from top to bottom.

The reader understands that with the drum stationary the bullet would pass directly through it on the line of its diameter, coming out on the other side with scarcely a shade of impediment. With the drum's periphery whirling at the rate of 2,000 revolutions a minute and its diameter only a fraction more than a foot this would mean a rate of 2,000 yards in sixty seconds. Thus in the fragment of a second necessary for the bullet to enter one side of the paper drum, cross it and out at the other side the opposite side of the drum would show considerable deviation from an exact diameter of line of passage.

It is this space of deflection shown inside the further rim of the drum that is used for the computation of velocity of the missile. The speed of the cylinder may be computed to the ten thousandth part of a second if necessary and the lineal distance run in that time be charted in perpendicular lines on the inner side of the paper. At whatever line the bullet penetrates outwardly registers its time in crossing the diameter of the cylinder. If it has required the ten-thousandth part of a second for the bullet to fly one foot its muzzle velocity to the mile may be computed by any schoolboy. By the same process, too, the bullet's velocity at 100 yards or 500 yards may be determined.

Years ago before wing shooting had become an art the farmer with his muzzle loading shotgun and charge of black powder would shoot directly at a wild roose or duck in full flight. He evolved a theory of his own as to the oncoming bird, holding that the heavy feathery "turned" the shot. He waited until the bird had passed him when, firing directly at it, he could bring down his quarry.

But it was not because the bird was not vulnerable, coming breast on. The fact was that it flew over his charge of shot. Before he could pull the trigger and the hammer fell on the percussion cap and the comparatively slow black powder could be ignited and exploded, sending the shot twenty-five or thirty yards, the bird had flown yards perhaps beyond its position when the fowling first touched the trigger. But firing directly at the bird after it had passed the shot charge had a strong tendency to drop as it flew, and the bird flying on a level line "got in the way" of the charge.

Today the modern nitro powders are immensely quicker than was the old black gunpowder, yet it has been an engineering problem to determine just how fast and in what line a charge of shot will travel. In this determination the revolving drum device has shown several important facts which have been taken in connection with the speed of individual game birds and the effects of windage on a shot charge.

That most important fact as to the flight of shot from a modern shotgun is that at forty yards the shot are "strung out" for approximately fifteen feet. While the leading pellets in the string have greatest velocity and killing power, at this distance even the trailing pellets are of sufficient force to kill.

All this has led to the modern practice of the fowler to reckon with the speed of his shot, the speed of the bird, the influence of the wind in "drifting" the charge, and out of these established facts to "lead" the bird sufficiently to kill it rather than wait and cripple it.—Marvin Holton in Chicago Tribune.

The Other National Game.
 Mrs. Galey has Galey arrives home at 6 a. m.—Well, what in the world rounded you to come home at all? Galey—The game was called on account of daylight, my dear.—Duck.

Hatred does not cease by hatred at any time. Hatred ceases by love. This is an old rule.—Buddha.

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