

SEA SLUG STORIES

Continued from first page

tell.

Well, to go back to the monitor. We all went aboard and were given breakfast. In the ward room one of the officers told us some interesting things about their work.

"These tubs," he explained, referring to the monitors, "are not armored. We carry heavy guns forward, and the bar-bette is the only part of the craft that is protected by armor plate.

"All along the coast we have buoys anchored to mark fire positions. We cruise along, pick up one of the buoys and let go a few shots. Of course we know the range and where the German forts and batteries are, although we can't see them. Sometimes we have hydroplanes observing for us, so that we can tell whether we're on the target, but we have been doing it so long and we have the coast so well plotted and the buoys so carefully planted that it's mostly a matter of mathematics.

"It's all very impersonal. We drop a few shells into a harbor or fort, then move on to a new position and drop a few more.

"The Germans don't seem to have any planes along the coast here, and they aren't able to reply with any accuracy whatever, for they can't see us, as we always pick a day with a slight mist or haze or operate at night.

"But the other day we dropped down the coast for a little party, when all of a sudden, after our first shot, a shell plumped into the water just beyond us. We let go another, and the second German shell fell just a little short. Both were in line.

"We thought it was luck, so we moved to a new position. The same thing happened, only this time one shell came on board and did some damage and hurt some of our crew. Of course we thought the Huns must have some planes up giving the batteries our range, but we couldn't spot one anywhere. This sort of thing kept up all morning until it became positively uncanny. The day was heavy with fog, making aerial observation difficult.

How the Germans Got the Range.

"Then an officer who had been an observer in the Russo-Japanese war explained it. The Japanese had used a system at Port Arthur to locate some hidden Russian batteries that this chap said the Germans must be employing, and I guess he was right. In fact, we know now that he was. How we confirmed our original opinion I cannot tell.

"Every one familiar with the principles of artillery fire knows that a shell does not travel in a straight line. It travels in a curve called the trajectory. Elevate a gun of a given caliber to a certain angle and fire it and the trajectory will always be practically the



After Our First Shot a Shell Plumped Into the Water Just Beyond Us.

same. The curve varies constantly, becoming steeper as the velocity of the shell decreases and it begins to be affected more and more by gravity.

The Mathematics of It.

"Now, what the Germans had done was this. They erected a series of gauze screens—at least three—between us and a battery which we were accustomed to shell. To hit the target our shells must pass through these screens. Electrical timing devices indicated the length of time the projectile required to travel between the screens, and of course the distance was already known.

"This gave the Germans the velocity of the shell when it reached the screen. The holes it made in the screens gave them three or more points in the curve. This enabled them to plot a section of the curve. They could tell from the explosion the size of the shell approximately. This would enable them to know exactly with which the shell would leave the gun.

"With these elements—a section of the trajectory, the velocity of the shell when it reached the screens and a knowledge of the initial velocity of a certain sized shell—they had more than enough data to figure out exactly where the projectile came from.

"In fact, they could check themselves on it, because they could plot the whole curve from the section they had with their knowledge of the velocity, and they could figure the straight distance from the velocity of the shell when it reached the screens and the velocity they knew it must have when it left the muzzle of the cannon on board the monitor.

"The best proof that the system worked was the fact that, no matter where we moved to, their shots straddled us, and besides the one which came on board us one of our other ships got a shell in the boiler room."

Well, somebody's always taking the joy out of life, as we say in America.

After mess we left the monitor, the little damage which had been done the M. L. that ran up on the shelf having been repaired. Before we went down over the rim of the horizon we saw our friend the monitor steaming as fast as she could go toward some vessels flying the Dutch flag.

"D— all neutrals anyway," said the Brass Hat. He didn't mean that there was anything particularly reprehensible in being neutral, but if there were no neutrals we'd always know who to fire on and who not to. The trouble is that a lot of ships are cruising around under neutral flags and scattering mines in their wake.

"We're always nervous when we're in waters a neutral has just traversed. Down at Dover— But I'm getting ahead of myself. I will tell about what happened at Dover in my next article.

The fourth and concluding article of this series will appear soon. It is entitled

No. 4.—The Dangers of Dover.

Acrobats bombard the barracks and town. German submarines laying mines in the harbor channel. What happened on a destroyer the day after I had dinner on her with the officers whom later I saw crushed and torn to death.

Office Ground Floor Bell Phone 53-J
National Bld. P. O. Box 147

With Rollie Watson

**Abstracts on Short Notice
by the**

PACIFIC ABSTRACT CO.

L. V. EBERHARD, Manager.
Complete Set of Abstracts of the Records
of Tillamook County, Oregon.

TILLAMOOK, OREGON

CLOUGH'S LYSEPTIC

The Best Antiseptic
Healing Germicide

Lyseptic is completely soluble in water. A teaspoon full to one quart of water is the average strength to be used for antiseptic, germicide, deodorants, wounds, cuts, nail punctures, mange, hoof rot, mud fever, lice, fleas, dandruff, shampoo, being of a soapy nature proves very effective for washing the animals' and stable utensils, and if used in general, improves stable conditions, infection, among cattle, abortion, foul discharge and externally to prevent the spread of diseases.

CHAS. I. CLOUGH,

Reliable Druggist, Tillamook, Ore.

The rates at the Louvre restaurant in Tillamook are no higher than at other eating places and the tables are as inviting and the edibles as appetizing as those you find in the larger cities.

FRANK TAYLOR,

Notary Public

Cloverdale, Ore.

It Pays to Advertise in the Courier.

Let us find the buyer
for that Ranch

\$3,000—A small dairy ranch
with some river bottom
land. Half cash.

Will you be the lucky one or will you let some
one else grab it?

**Taylor Real Estate
Agency
CLOVERDALE, OREGON**

Leland B. Erwin

PIANO INSTRUCTION

Diploma from the Chicago
Musical College

Will be in Cloverdale on Thurs-
day of each week.

Those desiring to take les-
sons please engage a lesson period
now. Leave word at the Cloverdale
Hotel or write me at Tillamook.

Terms \$1.00 Per Lesson.

**TAKE
THE WHITE
AUTO
STAGE**

FOR
**Tillamook-
Cloverdale**

AND
All Way Points

Safe and Comfortable

Leave Cloverdale daily at
7:30 a. m., arriving at Tilla-
mook at 10 a. m.—in time for
morning train to Portland.

Leave Tillamook at 3 p. m.,
arriving at Cloverdale at 5
p. m.

J. M. TRAXLER, Prop.

An advertisement this
size in the Cloverdale
Courier at only 35c the
issue. Don't let the
door hinges of your busi-
ness place get rusty for
the want of a little adver-
tising.

Notice for Publication.

[PUBLISHER] 03298
DEPARTMENT OF THE INTERIOR
U. S. LAND OFFICE at Portland, Ore-
gon, September 4, 1917.

NOTICE is hereby given that Alvy F.
Ball, of Oretown, Oregon, who, on De-
cember 11, 1911, made Homestead Entry
No. 03298, for the s e ¼ s w ¼ Section
17, and n e ¼ n w ¼, n ½ n e ¼ Section
20, Township 5 South, Range 10 West,
Willamette Meridian, has filed notice of
intention to make five-year proof,
to establish claim to the land above de-
scribed, before the Register and Receiver
of the United States Land Office at
Portland, Oregon, on the 24th day of
October, 1917.

Claimant names as witnesses:
Thomas H. Foster, of Meda, Oregon;
Darius J. Dunn, of Meda, Oregon; Har-
ry D. Beckwith, of Meda, Oregon; Ole
B. Redberg, of Oretown, Oregon.

N. Campbell,
Register.
Proof made according to law under
which entry was made.

PROFESSIONAL CARDS

Tillamook Abstracting Co

THOS. COATES, PRESIDENT.
COMPLETE SET OF ABSTRACT BOOKS
OF TILLAMOOK COUNTY, OREGON.

TILLAMOOK CITY, OREGON.

T. H. GOYNE,

ATTORNEY AT LAW

Conveyancing, Etc.

Opp. Court House, Tillamook, Ore.

F. R. BEALS

REAL ESTATE

Write for Literature.

TILLAMOOK, OREGON

A. C. EVERSON

TILLAMOOK, ORE.

Money to Loan

Real Estate Agency

See me for realty deals.

Tillamook Undertaking Co.

R. N. HENKEL, Proprietor.

Night and Day calls
promptly attended.

Sixth Street at Second Avenue East
TILLAMOOK, OREGON

The Todd Hotel

Tillamook, Ore.

L. S. HUSHBECK, Proprietor.

Dining Room run on Family Style
Meals 35c.

Rooms 50 and 75 Cents, Special
Rates by the Week.

Notice of Sheriff's Sale.

Notice is hereby given, that by virtue
of an execution and order of sale issued
out of the circuit Court of the State of
Oregon, for Tillamook County, on the
31st day of August, 1917, and to me
directed, in a suit wherein E. J. Clausen
was plaintiff and Thos. Coates, admin-
istrator of the estate of Wm. J. West,
deceased, was defendant, and in which
the plaintiff recovered judgment against
the defendant for the sum of \$1,100.00
together with interest thereon at the
rate of ten per cent. per annum from
the 20th day of February, 1915, and for
\$150.00 attorneys fees and \$16.20 costs
and disbursements, and a decree fore-
closing a mortgage upon the real prop-
erty hereinafter described, and ordering
and directing that the same be sold to
satisfy the said judgment, and com-
manding me as sheriff of said County,
to sell the said property as by law pro-
vided, to satisfy the said judgment, at-
torneys fee, costs and accruing costs;
Now therefore, by virtue thereof, I
will on Saturday, the 13th day of Octo-
ber, 1917, at 10 o'clock a. m., of said
day, at the Court House door of said
County, expose for sale, and sell to the
highest bidder, for cash in hand, all of
the right, title and interest of the said
defendant, and of the deceased, of, in
and to, all of the following described
real property, situate in Tillamook
County, Oregon, to wit: The southeast
quarter of Section Twenty-two in T. 2 S.
R. 8 W. Will. Mer., in Oregon, contain-
ing 160 acres according to government
survey, to satisfy said judgment, at-
torney fee, costs and accruing costs.
Dated at Tillamook, Oregon, August
31st, 1917.

W. L. Campbell,
Sheriff of Tillamook County,
State of Oregon.



WHEN you trim your outfit down to military
bedrock, W-B Cut Chewing scores a bull's-
eye. A soldier gets more from his pouch of W-B
than from a bulky ordinary plug—rich leaf plump
full of sap, all tobacco satisfaction, every shred
of it. And the water-proof pouch keeps it clean
and fresh in the pocket of his khaki.

Made by WEYMAN-BRUTON COMPANY, 1107 Broadway, New York City