

# WELLS OFFER GOOD SOURCE

### Local man Says North Fork Supply Subject to Much Pollution

By BERT W. MACY  
There are only three sources, within reason, from which a supply of water for municipal purposes in Salem, can be obtained. The first source is the Willamette river. All are familiar with the water from this source; so nothing further need be said.

The second source is the Santiam river, or one of its many tributaries. The Little North Fork of the Santiam is the one now under consideration in Salem; hence I will discuss it, and, for the present, forget the other tributaries.

Much was said in the Hollywood Press about wells "playing out". No well or system of wells could possibly be the Little North Fork of the Santiam when it comes to "playing out".

I have covered every foot of the Little North Fork from its mouth near Mehama to where it rises on the northwest slope of Beechy mountain in a snow bank, except about a mile above the gorge at the upper end of Elk-horn valley, not once, but most of it many, many times, while fishing. There is not to exceed one-fifth, and in my opinion, no one-tenth as much silt in this stream now, as there was the first time I fished it 36 years ago. Each year since that time, the water is lower in the summer time.

This is due to a variety of causes. There is less snow in the winter, and less rain in the spring than formerly. The timber is being cut off. Sheep grazing around its headwaters, are cleaning out the shrubbery, grass and underbrush. This allows the wind to get a better sweep at the snow, thus facilitating the run off. But, in my opinion, the most potent cause of the diminished flow is due to the burning off of the timber near the headwaters of the stream. Snow around the headwaters of the stream formerly lay in the deep canyons, protected by dense forests, until July and August, now comes out with the first warm weather in the spring. The above conditions will get worse as time passes.

Most Polluted of Santiam Streams  
The water from this stream is probably more polluted than any other tributary of the Santiam. Just above the proposed intake for the Salem municipal supply, is Taylor's grove, where thousands of Salem's citizens bathe every summer. A short distance above Taylor's grove, are three sawmills. Above these, in Elk-horn valley, are several cattle ranches.

In the summer time, the cattle stand in the water, and the water escapes flies and mosquitoes. Still further up, are the many mines and prospects, so-called. All of these miners and prospectors pollute this stream. The water from this source will have to be treated by some purifying process, just as surely as the water from the Willamette river. The water from this stream is entirely too warm for drinking purposes. It is just fine for bathing in the summer.

The third source is wells. Not just wells any old place, but wells driven into the apparently inexhaustible supply in the old river bed which comes through the old Reford school gap, and comes down through the southeast part of the city. A number of wells which have been driven down into this old river bed, tends very strongly to indicate that the supply is inexhaustible.

The water is pure and cold. Bert E. Edwards, the meat packer, has a well driven into this old river bed. It is 17 feet deep, with a 6 inch casing. This well was bored through two overlying strata of very hard blue cement gravel and rock. Between these two strata, was a layer of sand and gravel about 20 feet thick. There was a very satisfactory

## DEPRESSION-HIT NOBILITY KEEPS WOLF FROM DOOR



Born with the proverbial golden spoon in their mouths, many English peers and peeresses are now compelled to earn their bread. The heavy taxation on lands that were not bringing in any income allied to the hardship of the present depression ruined some of England's finest families. Consequently titled chauffeurs, decorators, saloon keepers, painters and mechanics are no novelty in Albion. The Duchess of Portland derives an income from a fried fish-and-chip-plate shop which she personally operates. Lord Northesk, once a night club playboy, is now an automobile salesman. Lady Ossulston runs a laundry and runs it so that it pays handsomely. Lord Hamilton of Dalsell, turned from race horses and a laundry and runs it so that it pays handsomely. Many titled women have opened millinery and dressmaking establishments from which they derive comfortable incomes. But the case of Sir Charles Herne-Soame is a sad one. He is unable to procure a job and is compelled to accept the government unemployed dole—a sum of \$2.91 a week.

supply of water in this layer. At 45 feet, the lower hard strata was encountered. At 60 feet, the drill broke through this hard strata and dropped into coarse gravel and large river boulders. The drill showed a strong current of water flowing under this hard strata. The water rose to within 14 feet of the top. This lower strata is hard as concrete, and is impervious to water. Hence, the water from this source is not subject to surface pollution and contamination. The Miller told Mr. Edwards that his well would pump 1000 gallons per minute and not lower the water to any great extent. The temperature of this water remains at 52 degrees F. Mr. Edwards had the water tested at the Oregon State college laboratory. Mr. Edwards says it tested "AA" grade, 100 per cent pure, no bacteria.

Water From These Wells is "Soft"  
The Salem Sanitary milk company has an 8 inch well driven down into the old river bed, 31 feet deep. It was driven through two strata of hard blue cement gravel and rock, with a sand and gravel layer in between. At about 85 feet the drill broke through into the lower strata into coarse gravel and river boulders. The milk company pumps 100 gallons a minute from this well constantly, without affecting the water level.

An O. S. C. laboratory test of the water from this well shows, bacteria count, 650, no gas formation. The test was made March 8, 1930. The temperature of this water remains constantly at 51 degrees F. This is very high grade water, I am told.

The City Ice company on East Center street has a well 119 feet deep in this same old river bed. With a 3-inch casing, the ice company pumps 150 gallons per minute from this well without lowering the water level. As the engineer said to me, "without phazing it".

Adam Engel has a well 72 feet deep into this old river bed at his farm on North Capitol street. R. A. West, who drilled this well, informed me that the water rose to within 12 feet of the top when the drill broke through the lower hard strata.

The water in all of these wells is "soft". Undoubtedly, water obtained from wells, which penetrates from the surrounding strata of the earth, is hard. These are the kind of wells that "play out" in dry seasons. A test well, 12 or 15 inches in diameter, driven into this old river bed above mentioned, will not cost great deal, and a pump of large capacity will soon determine whether or not there is a sufficient flow in this underground river. The writer is confident that such a test will give a supply of water, as pure and as abundant as Spokane's, and that it will remain free from contamination and pollution.

Much has been said about the cost of pumping water from wells. Spokane does not find it expensive, and it will not cost much more, if any, to pump from wells driven into this old river bed, than to pump from the Willamette river, as the water rises so close to the top of the ground. The interest on the increased cost of "mountain" water will be much more than the cost of pumping from such wells, and then the water will not be half as good. Much more could be said about the advantages of the water from such wells, but enough has been shown to justify the city in giving this supply first consideration, if and when the city takes over the water plant. Salem can then say, as Spokane now says: its water is pure, not polluted.

Byron Nelson recently shot the first nine at Glen Garden golf course, Fort Worth, Tex., in 30, seven under par for the 9, 182-yard layout.

## Schoolmarm Sidelights

SUPERINTENDENT ROBERT Goetz, for many years of the excellent Silverton school system, is again a familiar figure about the city. He is back from a summer of teaching at Oregon State college and now boasts a vastly improved game of golf.

Superintendent George Hug of the Salem system likewise is proud of his golf game. He is also adept at bringing good educators to the institute from the University of Michigan where he once attended a summer session.

Wayne Harding, new rural supervisor and 4-H club leader for the county, is one of the busiest men at the gathering of teachers. Harding is a shining light, however, his pate being plainly visible from any distance.

Quincy Scott, Oregonian cartoonist, gave a captivating talk to the teachers, filling up his time with humorous remarks, common sense and philosophy. The truth can't be bent, he averred, and it takes the utmost courage to face it. W. A. Delsell, one-time democratic nominee for congress and rumored again an aspirant, faced Scott's drawings without a quaver.

E. R. Derry, Salem high school band instructor, started off the Monday afternoon program and gained much applause. Derry is starting his second year in Salem

high school, having come here from Klamath Falls where he had a similar position. Derry is very much interested in a good-looking blonde—who happens to be his wife and an assistant teacher in the Salem schools.

Miss Ethel Hickey is to be seen at the institute, radiating her customary optimism. She is the veteran high school principal at Mill City. Being artistically inclined she gave Mr. Scott some difficult lines to draw yesterday afternoon but Scott weathered the storm and produced a good cartoon.

Lyman Patton, principal of the Jefferson schools, came late to the Marion County Principals' association and found himself duly elected as president of that group for the next year. The early bird doesn't always get the worm.

Mrs. Mary L. Fulkerson, fully up-to-the-mode with a Princess Eugenie hat, greeted the institute with her usual poise and charm. Even the later comers were made to feel at home in the front assembly seats after a long stand in the outside hall.

T. C. Mountain, principal at Aumsville and his O. S. T. A. committee has been busily engaged in taking money (and promises from those who are still waiting for the eagle's flight) in exchange for the eagle's flight in exchange for memberships in the Oregon State Teachers' association.

H. E. Tobie of Stayton, believe it or not, is easily the outstanding man of the meeting by virtue of his six feet, six inches or more of stature. Tobie needs his head in the air to see clearly over the bus line-tuition scrap which broods

## BABY CHICK MEET DISCUSSES CREDIT

### Installment Selling Plan Given Attention at Annual Session

Policy of extending credit to customers, installment plan of selling baby chicks, adoption of uniform prices, cooperative buying of supplies, were all subjects which came before the annual fall meeting of the Oregon branch, International Baby Chick association, which met Saturday at the Marion with C. N. Needham of Salem, president, in the chair. Lloyd A. Lee of Salem is secretary-treasurer.

Three guests were speakers: P. W. Harris of Seattle, H. F. Ran of the Tacoma Incubator Manufacturing company and W. C. Conner, Salem, editor of the Northwest Poultry Journal. The poultrymen also discussed the need of a campaign to educate producers to use more care in handling, grading and storage of eggs to produce more quality eggs.

Explanation of the methods by which California and Utah poultrymen can market "day old eggs" and top the New York market, was given by Fred Cockrell of Milwaukie, Oregon, who was recently in the two states mentioned. He urged Oregon producers to adopt more modern methods in producing quality eggs. W. H. Hart of Beaverton and A. E. Leary of Woodburn, both prominent hatchery men, pointed to the fallacy of selling baby chicks on installment plan. Joe Russell of Corvallis, owner of one of the largest western hatcheries, agreed with sentiments of Hart and Leary. Cooperative buying of supplies was approved by all.

## Harry Niles to Speak at Lions Meet Thursday

Captain Harry R. Niles, assistant superintendent of the state police, is scheduled to speak at the Lions club luncheon next Thursday noon. He will discuss criminology, a subject on which he is an international authority. Deibert Jepsen, Salem violinist, will play at the meeting.

over the districts of Stayton, Jefferson, Turner and Aumsville.

## LINDBERGH'S BACKSTAGE



America's flying visitors to Japan, the Lindberghs, went back stage in the Kabuki theater in Tokyo to meet the Japanese actors and actresses taking part in one of the current events of the year.

## Tusko Stays, State Facing Big Hay Bill

And the elephant stayed here. Not that Tusko—the 10 tons of body and trunk, featured in a side-show the last nine days—became enamored with the state fairgrounds.

Rather, his master, T. H. Eslick, became dis-enamored. Possibly Eslick lost the glamour of

owning the largest animate thing on earth because Mr. Tusko, age 42, needed a couple of tons of hay every seven days. Eslick, like many other concession owners, didn't make ends meet at the fair. When Eslick was greeted with papers to collect payment of bills at the fair, he told officers to take Tusko. And now, technically, Tusko is the worry of Max Gehlar, director of the fair.

Lettermen for every position except fullback are available to Coach Madison Bell for the 1931 Texas Addie grid team.

## WORK STARTED ON HOMECOMING PLAN

Homecoming at Willamette has been set for October 23, 24 and 25 at which time the old grads will be welcomed to their alma-mater and have an opportunity to see how the school is progressing.

A detailed program is being worked out by Ralph McCullough, homecoming manager. The program features will be the Willamette vs. College of Idaho football game Friday night, October 23 and the homecoming play "Skidding" to be presented Saturday night of the same week. Ralph McCullough announced the annual slogan contest for homecoming, Monday. Two complimentary tickets to the play will be given to the one offering the best slogan or as McCullough would say, the one which will make those Coyotes feel all "Woosy" to hear.

Work on homecoming signs will also start soon with the sororities, fraternities and Lausanne Hall competing as usual for the prizes. These signs are made to portray the spirit of homecoming and are judged for originality and realistic interpretation. Also as is customary, the freshmen will arise as an early hour the opening day for homecoming and rake the leaves from the campus lawn. The annual sack rush will likely not be forgotten as it adds mirth to the picture of homecoming.

## Travel Bargain Week Arranged On "Greyhound"

Travel costs for autumn excursion travel will be reduced to one of the lowest records in the history of Pacific coast transportation when Pacific Greyhound Lines will introduce "travel bargain week" October 7 to 12, according to an announcement made today by L. G. Markel, traffic manager of the motorcoach company. Round trip fares will equal the usual one way fares and in some instances the round trip fares by bus will drop below the regular one way fare, Markel said. "These travel bargain week" fares will apply to all points on Pacific Greyhound lines, and will afford the belated vacationist an opportunity to travel at a considerable saving of travel dollars," Markel said in announcing the low fares.

## DIVORCED!



Instead of employing the customary "happily married" expression, this couple is joyous because they are "happily divorced" or are going through the well-illed process developed by Reno, Nevada. Dorothy McMartin, perched on top of "Friend Husband's" shoulders at Reno, gives more of an impression of having just been married instead of waiting for a divorce in the oasis of single blessedness.

## Greyhound's Travel Bargain Week!!

Oct. 7-8-9-10-11-12  
Return Limit October 19

The Year's greatest travel Sale! 6 whole days to buy your ticket... plus an entire week's final return limit.

### Compare the fare

**ROUND TRIPS TO**

Sacramento	\$12.65
San Francisco	13.50
Los Angeles	20.00
San Diego	22.75

See Agent for Bargain Round Trip Fares to All Points

DEPOT: New Senator Hotel, Phone 4151  
Agent: W. W. Chadwick

PACIFIC GREYHOUND

# Can We Interest You in a Little FISH?

## You Know There is Nothing Like Fish

(Well, Anyway, Not Just Exactly Like 'Em) for Brain Food

Now that everybody's so enthused, you know it's wonderful to be able to write an ad that gets everyone so enthused. What?—You aren't enthused? Well then, you just don't like salmon. Now here's the enthusin' part of this ad—

# SIX Cents per. lb.

for the finest silverside salmon that ever rowed a boat. We mean the finest that ever road (or do we mean rode) in a boat.

## Ten Tons Almost Twenty Thousand Pounds

[That's right, it is 20,000 pounds, and maybe we'd better qualify that remark by sayin' available, before somebody says we're the biggest fish or somethin' in the lot. Of course this low price is made possible only because the Pacific ocean is right at our back door, so to speak.]

So Buy Your Salmon This Week—Whole Fish, per Pound 6c

# Busick's AT THE Market

## NOT A CHAIN STORE