

WHERE TO LOCATE AND HOW TO BUILD A CISTERN.

One of our best agricultural papers was asked recently whether a cistern should be built in a cellar, or outside. The reply was made by a noted writer, in these words: "You can build a 3 cornered cistern in the cellar by running a wall diagonally across one corner, if in this way you can get size enough; if not, build it rectangular. An outdoor cistern is very unsatisfactory, is hard to clean and may freeze. The water will soon have a bad odor." Now, I have lived for 45 years in a locality where cisterns were in common use. I do not know of a single house in the town, or township, where there is not a cistern. There may be a very few, but doubtless there are more houses where there are two cisterns. In the town one has to dig deep for well water, usually, and the quality is not always good. So cisterns are often depended on for drinking water. I have drank cistern water most of the time during all these years. We have a good well here on the farm, now, and the water is not very hard, but we have drank cistern water mostly. And it has usually been as clear and sparkling as any spring water. But, now I do not know of one single cistern built in a cellar, or under a house. There may be one or more, but certainly there are very few. To say that the water will have a bad odor in a cistern out of doors, that is rightly built and cared for, is certainly a mistake. I know about cisterns in town where we used to live, that were filled before warm weather, to furnish drinking water for the summer, and during which time none was allowed to run in. And the water was as nice as well water all summer long, but of course it was not as cool. A properly built cistern never freezes to do any harm. It should be made round and jug-shaped. After laying the outside wall up of bricks and cement mortar to within about 4 feet, say, of the surface, arch over the top with bricks and mortar, putting in a length of sewer pipe 2 feet in diameter and 2 feet long, in the centre for a neck. This should be cemented in the arch at the lower end and the other end should come up above the surface about 6 inches, so no surface water can flow in. A round, double plank cover should be made for this top, the lower plank going inside the sewer pipe, the upper one projecting over it slightly. Such a cover can never blow off and little children cannot readily move it. A heavy stone can be placed on it if there is any danger. One can put a light ladder down through this sewer pipe top and cistern can be cleaned with little trouble, certainly less than if it was in the cellar, where water and sediment must be carried up steps. I have helped build four cisterns in this way during the last forty years, and there is no trouble about frost injuring them. The bricks should be laid flatwise for both walls and arch, making a 4-inch wall. I would plaster the outside of bricks as well as the inside. To do this one must dig the hole slightly larger than he wants the brickwork. And I would have the bricks wet before laying. The mortar sticks better. It is easier to do such a job once for all than to repair it after it gives out. Our own cistern is in this shape today. It won't hold water only part way up and has got to be overhauled. The cement let go of the dry bricks. It was built by the job when I was hauling potatoes to the market every day. After the

wall is done lay mortar on the bottom and bricks in it flatwise. Then cement the whole inside, bottom and all. Remember that one brick uncovered will in time empty the cistern. It is the cement mortar that holds water, but it is likely to crack unless it adheres tightly to the bricks. In clay soils the mortar is sometimes plastered right on the earth. If one gets on enough it will hold, but I would prefer to have a brick wall. After the cement lining is set so you can go on it with rubber shoes on, whitewash the entire surface thoroughly with good cement and water mixed like thick whitewash. This will form a glaze on the surface that will soon harden and hold water. It is well to locate the cistern close to the cellar wall outside. When building the cistern wall put a 3-inch sewer pipe through the wall, and through the cellar wall, on such a slant that the pipes from pumps can readily pass down through it to near the bottom of cistern, and still no water from cistern get out of sewer pipe. It may take two lengths. Cement joints so they are water-tight. When they are fixed in this way one can take the water pipes out, if he ever needs to. We use lead pipes. Our cellars are not usually more than 4 or 5 feet in the ground. That wouldn't give much of a cistern, unless one went below the cellar bottom. A cistern about 6 feet across and 12 feet deep, measuring from the surface of the ground, does very well for an ordinary family. But one can readily be made much larger. I put in one to get cool water in summer that was 16 feet deep and I think 8 feet across. The water from roof should not go in through the top, but through a small sewer pipe which should be cemented in near the centre of arch. There should be a waste pipe, connected with drain, cemented in also at the lower part of arch. If this arch is built, using Portland cement, no frost will ever injure it in any climate. We used Akron cement and have had no trouble. In a very cold country the body of cistern might be put lower to prevent the surface of water

(Continued on Second Page.)

INSURANCE ON SHEEP.

It is believed here that the bill indemnifying stockmen for loss by shooting of stock will not prevent the killing of sheep, but act simply as an insurance. A telegram from the legislature asking for the sentiments of the sheepmen of the county was received here this week by a committee. There are many phases to the bill, and after deliberating on its probable effect for two days the committee was nonplussed and decided not to report at all. The sheepmen would be protected by the measure from loss argued the committee, and business men loaning money to the sheepmen would be safe; but the county would have to foot the bills. The sheriff would be held responsible for the apprehension of the killers (the main object of the bill); but the sheep would be disposed of at an increased rate and in the end the tax levy would be a matter of cents instead of mills. Of the taxes, the largest institutions would pay the most; and the burden would not rest heaviest upon the country districts. The committee, business men of this city grew alarmed when the full meaning of the bill burst upon them. There are many thousand sheep in the county which are to be insured at the expense of those who own no sheep.—Prineville Review.

LOCAL NEWS.

Rev. Mr. Traglio made a business trip to The Dalles Monday.
 R. R. Young, of Mud Springs, was a visitor last week.
 Relinquishments bought and sold by Riley Girihoffer, Shaniko, Oregon.
 Ed Wawrtinsky and Julius Degner were recent Madras visitors from Culver.
 Joe Marnach, of Methodist Hill, was a business visitor the fore part of the week.
 Next Tuesday is Valentine day. Buy your Valentines at the New Cash Store.
 Dennis McCole arrived in Madras last week from Omaha, Neb., and intends to locate here.
 Hon. W. H. Bishop, of the Warm-spring Agency, was a business visitor last Monday. He says that things are quiet at the Agency.
 Jamie Fleck has arrived from Beaverton, Ore., and will make extensive improvements on his and his mother's homesteads.
 Frank Smith, James Williams and A. Reichen, all of the Little Plains, were doing business in the city last week.
 Fred Stollker, of Sagebrush Springs, was a business visitor this week. He is looking forward to the establishment of a postoffice at Heister in the near future.

T. E. Higginbotham, who has been in the employ of J. P. Hahn this winter, is now making necessary improvements on his homestead, three miles south of town.
 L. A. Young is still working on his well. He has gone down 85 feet, with but scant indications for water, but says he is determined to get water regardless of the depth it may be necessary to go.
 C. E. Roush, of Portland, who has bought an interest in the butcher shop with Dick Williams, arrived in Madras the latter part of last week and will at once become manager of the market, which is to go under the firm name of Williams & Roush.

This office acknowledges a call from A. J. Hennemann, of Methodist Hill. He is building a cottage on his homestead, which is nearing completion. It is a one and a half story structure, 16x24, and finished outside with rustic. When completed it will be as neat as any house in the vicinity.

B. C. Shelley, who spent a week in the timber district along the Metoles recently, says he has secured an option on a large amount of fine timber, which includes cedar as well as pine, for a firm which proposes to establish a saw mill near the mouth of the Metoles. The promoters of the mill are soon to be announced.

Dave Barnett, of Haystack, who struck indications of petroleum on his farm last fall while drilling for water, will drill deeper very soon. The substance found, Mr. Barnett says, will burn like coal oil even in the crude state in which it is found. If petroleum or coal can be found in remunerative quantities at the Barnett ranch, it is safe to assume that Haystack will have a boom and that others nearby will follow Mr. Barnett's example in delving down into the bowels of the earth for prospective fortunes.

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 T. M. BALDWIN, Cashier.
 WILL WURZWEILER Vice Pres.
 H. BALDWIN, Asst. Cashier.
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 For particulars inquire of D. P. REA, Secretary Madras Townsite Company, Madras, Ore.

COLUMBIA SOUTHERN RAILWAY CO.
TIME TABLE NO. 10.
 Effective July 8, 1904.

South Bound No. 2	STATION	North Bound No. 1
Daily Pass.		Daily Pass.
Leave, 2:15 p.m.	Higgs	11:50 a.m. Arrive
" 2:35 p.m.	Gibsons	11:19 a.m. "
" 2:50 p.m.	Sinks	11:10 a.m. "
" 3:05 p.m.	Wasco	11:00 a.m. "
" 3:12 p.m.	Klondyke	10:45 p.m. "
" 3:18 p.m.	Summit	10:40 a.m. "
" 3:25 p.m.	Hay C Je	10:24 a.m. "
" 3:35 p.m.	McDonalds	10:22 a.m. "
" 3:48 p.m.	DeMoss	10:05 a.m. "
" 3:50 p.m.	Moro	9:55 a.m. "
" 4:08 p.m.	Rekinville	9:47 a.m. "
" 4:29 p.m.	Grove Valley	9:30 a.m. "
" 4:35 p.m.	Bourbon	8:55 a.m. "
" 5:11 p.m.	Kent	8:45 a.m. "
" 5:21 p.m.	Wilcox	8:30 a.m. "
Arrive, 5:50 p.m.	Shaniko	8:00 a.m. Leave

For rates and other information apply to S. E. LYTLE, G. F. & P. A., Shaniko, Oregon.
 E. J. WILSON, Agent, Shaniko, Ore.

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The Dalles Oregon
 Notice to Creditors.

Notice is hereby given that the undersigned has been, by the County Court of the State of Oregon for Crook county duly appointed administrator of the estate of John Hastings, deceased, and all persons having claims against said estate are hereby requested to present the same, duly verified, to said Administrator at the office of M. E. Brink, in Prineville, Ore., within six months from the date of the first publication of this notice.
 Date of first publication of this notice Nov. 17, 1904. ED KUTCHER, Administrator of the Estate of John Hastings, deceased.

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 NO STOP-COCKS OR VALVES TO CORRODE.
 A CHILD CAN OPERATE IT. MADE IN 3 SIZES.
 2 gallons, copper..... \$13.00
 3 gallons, copper..... 15.00
 5 gallons, copper..... 18.00
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 This machine is easily and quickly charged and is guaranteed to put out any small fire that can be reached. It is just the thing for and should be in every residence, barn and store in the country. For further particulars write to the manufacturers,
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 90 FIRST STREET, PORTLAND, ORE.
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