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Often means safety to the driver.

Where dangerous, slippery roads are to be encountered it is essential to have the horse sure-footed.

Red Tip Calks

are easily adjusted by anyone, without delay. They make the horse sure-footed and dispel the terrors of icy roads.

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your horse is always sharp shod and you can drive any road with

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and
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The Neverslip Manufacturing Company
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Exporters of Pedigree live stock of all descriptions. Illustrated catalogues and highest references on application. We are doing a very large business in draft horses of all breeds, but especially Percherons, and we are offering unsurpassed values. All over the world there is a shortage of wool and mutton, sheep will go higher, and we solicit orders for show flocks. Our prices on big bunches of field sheep will surprise you.

Aberdeen-Angus of Show Form and Quality. For this season my offering in young bulls and heifers are topers, every one. Show-ring form and quality and bred from show-winners. T. B. BROADFOOT, Fergus, Ont. G.T.R. and G.P.R.

Cattle and Sheep Labels

Size	Price doz.	Fifty tags
Cattle	75c.	\$2.00
Light Cattle	60c.	1.50
Sheep or Hog	40c.	1.00

No postage or duty to pay. Cattle sizes with name and address and numbers; sheep or hog size, name and numbers. Get your neighbours to order with you and get better rate. Circular and sample mailed free.
F. G. JAMES, Bowmanville, Ontario

Shorthorns, Cotswolds, Berkshires

In Shorthorns am offering cows and heifers and calves of either sex. In Cotswolds have ram and ewe lambs and breeding ewes for sale. In Berkshires have a nice lot ready to ship.

CHAS. E. BONNYCASTLE,
P. O. and Station, Campbellford, Ontario.

CEDARDALE SHORTHORNS For sale, several fine heifers and good cows of rare value, Scotch-bred and of good individual type. Heifers in calf to our superior stock bull. DR. T. S. SPROULE, Markdale, Ontario

Please mention "The Farmer's Advocate."

Questions and Answers. Miscellaneous.

Well Drainage.

1. I put down a well this summer; it is forty feet deep and one-foot hole, twenty feet of clay, ten feet of dry gravel, and ten feet of quicksand. The caisson is one-inch hemlock. We put the pump in and pumped it down considerably, then the quicksand started to come up. It acts the same every time until it has nearly filled to the gravel. What would you advise me to do, as there is plenty of water?

2. Would a sand-screen be satisfactory?
3. I own a farm, lot 15, con. 10; A owns farm, lot 15, con. 11; B owns farm, lot 16, con. 10; C owns farm, lot 16, con. 11; sideroad between lot 15 and lot 16. My lot is lower ground, and all this water runs on me; also the water from the sideroad and concession. What is the proper course for me to take, as I wish it drained? The farm below me has a large gully, starting at our line.

W. G.

Ans.—1 and 2. The problem of securing water from quicksand stratum is rather baffling. Not long ago I received a query from a private correspondent relating his difficulty as follows:

"My well was dug about ten years ago, 43 feet deep, and curbed with wood put in horizontally; about 5 feet across; no water there worth naming; bored down with post auger 15 feet further, struck water in fine sand, put 6-inch tube 20 feet long in hole, and pumped sand and water out until tube settled 5 feet. Put in 1 1/2-inch sand-point and connected pump; got little water. Put in similar point 2 feet away and connected pump to both. Got nice supply for years, but small stream water failed; took out points and found them corroded and filled, admitting no water. Got new sand-point 8-inch pipe, 8 feet long 320, 7-16 holes covered with No. 55 strainer-cloth, re-covered with perforated copper. Still a failure. Use pumping mill. Can you advise me how to get the water separated from the sand and raised 65 feet to the surface. No doubt as to supply of water."

I took the matter up with a company which has been manufacturing and installing well-points for many years. Their reply is as follows:

"Our own experience is that water cannot be successfully produced from quicksand bed, for the simple reason that sand will run wherever water will run, and the only way we have known successful installation in such a position was where a pipe was run down through the sand to a coarser stratum below the quicksand, and then there would be no difficulty about this point keeping out ordinary coarse sand and gravel, but as above stated, quicksand would go wherever water will."

This would seem to indicate that you are not likely to succeed in getting a satisfactory supply of water unless you can go deeper and strike a coarser layer of sand or gravel. It may be, however, that some ingenious reader of "The Farmer's Advocate" has succeeded in solving the difficulty, if so, I should be personally glad to learn his experience.

3. Undoubtedly, parties living on the higher land should contribute something towards constructing a main through your farm. The Ditches and Watercourses Act would seem to apply, and it says the engineer shall assess the various parties according to their respective interests in the ditch. One's interest is measured in several ways: 1. According to direct benefit. 2. By providing outlets for drainage of lands higher up. 3. By injury that may be done to the low land by causing water to flow on it from the high land.

I would suggest that you first try to come to an agreement with your neighbors, each one agreeing to do a certain proportion of the work and pay a certain proportion towards the tile, if it is a closed ditch. If you can't come to a settlement, then the only way for you to secure the assistance of those above you is to proceed under the Ditches and Watercourses Act. The first step under this Act is to serve upon the owners a legal notice, according to the Act, that a meeting will be held on a certain day, at least twelve clear days after service, to consider the proposed drain. The Act

Caldwell's Molasses Meal

If you have any doubts regarding the composition of a feed—why use it? You need not have any misgivings about the quality of Caldwell's Molasses Meal—because we print the ingredients in plain English on the tag attached to every bag and guarantee the composition of our meal to the buyer. Caldwell's Molasses Meal is 84% pure cane molasses and 16% of edible moss, having remarkable therapeutic qualities. Its use is an economy, because it makes other feed more palatable and digestible. Let us know if you cannot get it at your dealer's.

THE CALDWELL FEED CO., LIMITED, Dundas, Ont.

Molasses Meal, Dairy Meal, Cream Calf Meal, Poultry Meals.

Canada's Champion Herefords When selecting a herd head or foundation stock come to the fountain head; for years my herd have proven their title as the champion herd of Canada. I have always both sexes for sale.
L. O. CLIFFORD **Dahawn, Ontario**

THE AULD HERD AND PLEASANT VALLEY SHORTHORNS

We have females of all ages and of the best Scotch families for sale. Those interested should come and see us. Correspondence invited.

A. F. & G. AULD Eden Mills, Ont. Bell phone. Guelph or Rockwood Stn.

100 SHORTHORNS 100 IN OUR HERD

For sale—Imported yearling show bull; 14 bull calves 8 to 14 months old; cows and heifers and show material all ages. Herd headed by three high class imported bulls, all three were prize-winners at Toronto this year.

MITCHELL BROS., **BURLINGTON, ONTARIO**
Farm 1/2 mile from Burlington Junction.

Shorthorns—I have ten young Shorthorn bulls, some fit for service now. Part of them are bred, and made so that they are fit to head the best herds in any country, some of them are of the thick, straight, good feeding kind, that will produce money-making cattle; some of them are bred from the best-milking Shorthorns, and the prices of all are moderate. I have Shropshire and Cotswold ewes and ewes of all valuable ages. Write for what you want, I can suit you in quality and in price.
ROBERT MILLER, Stouffville, Ontario.

Irvine Side Shorthorns
We are offering just now some very choice Scotch-bred heifers, high-class in type and quality, bred in the purple; also one right nice yearling roan bull.
L.-D. phone. **JOHN WATT & SON, Salem, Ont.**

DAIRY-BRED SHORTHORNS
We have for sale, Scotch- and English-bred Shorthorns. A few bulls of improved breeding on big milking lines; also other pure Scotch and heifers of both breed lines.
L.-D. Phone **G. E. MORDEN & SON, OAKVILLE, ONTARIO.**

SHORTHORNS of breeding, style and quality. If in want of an extra choice herd head, carrying the best blood of the breed, or a limited number of right nice yearling heifers, write us; we can supply show Geo. Gier & Son, Waldemar R.R. No. 1, Ont. L.-D. Phone

MEADOW LAWN SHORTHORNS OF RICHEST AND MOST FASHIONABLE SCOTCH BREEDING, and of high-class type and condition. I can supply young bulls and heifers—Claret, Roan Ladies, Mildreds, Stamfords, etc. L.-D.-Phone
F. W. EWING, R. R. No. 1, ELORA, ONTARIO.

SHORTHORN BULLS FOR SALE

8 head from 10 to 18 months, bred from cows which are from imported dams and sired by choicely bred bulls, prices are not high as I need the space for stabling cattle.

Shropshire and Cotswold ewes bred to imported rams.
BLAIRGOWRIE FARM **JOHN MILLER, JR. ASHBURN, ONT.**

SHORTHORNS—Records show that cattle bought from the Salem herd won numerous ribbons the past season; we have others. Several young bulls are priced reasonably.
ELORA G. T. R. and C. P. R. **J. A. WATT, SALEM, ONT.**

Shorthorns and Clydesdales

Shorthorn offering for October and November include 7 good young bulls from 9 to 15 months old. A catalogue of our Clydesdales will be mailed on application. W.G. Pettit & Sons, Freeman, Ont. Bell phone Burlington Jct. Sta., G.T.R.

Springhurst Shorthorns Four of the first-prize Shorthorns at the late Guelph Show, including the champion and grand champion fat heifer, were all sired by bulls of my breeding. I have now for sale ten young herd heads of this champion-producing quality. **HARRY SMITH, HAY P. O. ONT.** Exeter Station. Long-distance Telephone.

A Big Sale of Feeding Cattle

On Friday Nov. 28th at the farm adjoining the town of Brampton, Mr. L. J. C. Bull will sell 88 head of cattle, Registered Holstein and Jersey cows and young bulls, and 55 grade stockers from 1 to 2 years of age, a choice lot, many of them from 800 to 1,000 lbs. in weight.

SHORTHORNS Our present offering consists of Nonpareil Lord -57184- Dam Imp. Daimeny Nonpareil 6th. 7 young bulls from 6 to 12 months old. 15 cows and heifers of choicest quality and breeding. All
A. J. HOWDEN & CO., COLUMBUS, ONTARIO.
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