Are "Seriously III" With Water Supplies

in a series of articles prepared by the State Board of Water Commissioners for the purpose of familiar-izing the people of North Carolina with their ground water resources.)

HE PIEDMONT AND MOUNT.

es of individual wells in North Carolina's Piedmont and Mountain regions have been compared to the plight of the seriously ill man who sked his doctor for an opinion on his chances for survival and was told that a certain percentage usually survives, but that it was impossible to determine the chances of an individual patient,

This diagnosis very closely approximates the position of the avground for a supply of water. The Edgecombe, Halifax and Northampexperts can tell him what percenton tage of wells in his area have been

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INGRAM BROS.

same general area yield less than

These relatively unpredictable conditions exist in varying degrees throughout that portion of the state ty on the Virginia line. Counties servoir is the underlyir t bedrock. erage Piedmont or Mountain resi-clude Richmond, Moore, Harnett, through which this line passes indent who decides to go under- Johnston, Wayne, Wilson, Nash,

very reluctant to predict the suc- Throughout the rolling Piedmont and Mountain regions the land surface is underlain by dense rocks, broken by crevices and covered by

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well.

This reluctance is understandable when you consider that wells located only a few yards apart have a habit of varying considerably in the amount of water they will yield. One well in the Piedmont is known to produce more than 600 gallons per minute while many wells in the same general area yield less than forces of nature.

This reluctance is understandable tooks are extremely complex in character and occurrence, able when you consider that wells in the Piedmont yield at least 18 gallons of water per minute almost laterally by impermently impermently in the per cent of the municipal and industrial wells in the Piedmont yield at least 18 gallons of water per minute almost laterally by impermently in the per cent of the wells along the per cent of the wells along the per cent of the wells at least 18 gallons of water per minute almost laterally by impermently in the per cent of the wells at least 33 gallons a minute.

Geologists agree that immense amounts of water are stored in the per cent of the wells at least 34 gallons a minute.

While such statistics are little conmounts of water are stored in the per cent of the wells at least 18 gallons of water per minute almost laterally by impermently in the per cent of the municipal and industrial wells in the Piedmont yield at least 18 gallons of water per minute, that 40 per cent of the wells at least 33 gallons a minute.

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Underground reservoirs in this vast area consist of two contrasting west of the Piedmont - Coastal types. The first is the clayey and Plain fall line—a line that passes sandy soil and weathered material in a northeasterly direction from which underlies the surface to Richmond County on the Suth Ca- depths ranging from a few feet to rolina line to Northampton Countens of feet. The second type of re-

to the will and weathered rock. water occurs between the individual mineral grains, but in the underlying bedrock'it occurs only in To understand why the condition fractures. These fractures genersuccessful and what percentage exists it is necessary to know somehave been failures, but they will be thing of the geology of the area. may be from an inch or two to several feet apart. Many are interconnected sufficiently to allow water to circulate through them. The size and number of these ractures seem to decrease with

> ground water in the Piedmont and Mountains is found at a depth of less than 150 feet - much of it in the upper 30 feet of bedrock, After a fain, the water seeps

epth As a result most of the

down through the open spaces in the soil and weathered materials;

HEADQUARTERS Daniel Green House Slippers

sub-surface reservoirs of the Piadmont and Mountain regions. There s similar agreement on the fact that rainfall is generally sufficient full potential of this state's ground to provide adequate recharge to the reservoirs. Both of these facts are supported by the outflow of great quantities from springs and by the underground seepage of wa-

ter into the springs. Why, then, do some wells yield

One answer to this frequently asked question is the fact that rocks of the Piedmont and Mountains are such that they release water very slowly to wells. Many wells located in areas of abundant water cannot be pumped because the amount of water being withdrawn greatly exceeds the amount being yielded well by the surrounding rocks.

The difficult thing for many people to understand is why one well in this region can be so inadequate while another, 100 feet away, can be pumped at a rate of 75 or 100 gallons per minute. The answer, of course, lies in the size and ly adequate for domestic supplies, shape of the underground reservoir at the precise spot at which it is

The great variation in yield and the inability of the experts to pre- from deeper drilled wells that draw determine the vield of a prospective well might seem to suggest that getting a good well in the howeve, does not increase in pro-Piedmont and Mountain region is portion to an increase in depth. simply a matter of luck. Certainly, Since most of the water - bearing luck is a major factor, especially fractures occur in a zone no deeper when a single well is being con- than 150 feet it is seldom econom idered. However, when many ically wise to go below that depth wells are under consideration there if the yield is poor. Very rarely are certain known facts and proba- is there any justification for drilbilities that tend to clear up the ling below 300 feet.

brown soils, yield moderately hard

water containing objectionable amounts of iron. These objectionable qualities are frequently outweighed, however, by the fact that these rocks generally yield water more readily to wells.

While the quantity of ground water stored in the Piledmont and Mountain counties of North Carolina may be somewhat less than that stored in the Coastal Plain. the supply is still adequate for nost purposes. The big problem

of knowledge concerning geologic titlement expires. conditions. State and federal agenries are stepping up their efforts to formation that must be forged if the water at less cost for many per-

less, vital links in the chain of in-

water resources is to be beneficial-

Many of the difficulties relating

to the use of wells in the central

and western Tar Heel counties can

be traced to the selection of the

well site. Most of the wells in this

section of the state have been lo-

cated for convenience. Therefore,

where conditions for larger sup-

plies of water are unfavorable. In

general, there is a greater likeli-

hood of developing a bountiful well

n a draw or other low ground area

where the soil is thick, than on a

Another important consideration

is the depth of the well. Since the

water table usually lies in the zone

of soft, decayed rock, shallow dug

or bored wells can be developed a

few feet below the water table in

most places. Such wells are normal-

but some of these may go dry when

Larger supplies can be obtained

water directly from fractures in the

bedrock. The yield in these wells,

For the most part the ground wat-

the water table is drawn down by

an extended drought.

sharp hill where bare rock is ex-

most of them are found on hills

ly exploited.

bosed.

cr that is available in the Piedmont and Mountain regions is of good chemical quality. Some dark colored rocks, overlain by dark red or

Q. I am in college under the Korean GI Bill, and I have just about come to the end of my GI entitle ment, If I run out of entitlement before the end of my semester, will I be allowed to contniue my GI training? .

A. If your GI entitlement runs out after you've passed the half way mark of your semester, you will be permitted to continue under the Korean GI Bill to the end of west of the Coastal Plain is the lack training will end when your en-

O I hold a World War II GI enacquire this knowledge at the pre-sent time. The result can be more the end of its endowment perio. could I arrange to receive monthly payments for the rest of my life? A. No. You may ,however, choose

either a lump sum payment, or pa ments over a specified period ra ging from three to 20 years.

Q. I am getting monthly disal compensation payments from VA which, I am told, are tax-exempt. If I save those payments and buy some property with them, would

the property also be tax-exempt? A. No. Tax exemption does not extend to any property you might buy with your compensation pay-ments. The property would be subject to taxes.

While no offering can liquidate one's debt of gratitude to God, the the semester. Otherwise, your GI fervent heart and willing hand are not unknown to nor unrewarded by -Mary Baker Eddy



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