

strength of the hydrostatic pressure in the given case. If the well opening is at a lower level than the upper limit to which this pressure can lift the water, a flowing well results. In the North Carolina Coastal Plain this upper limit, as a rule, lies below the general upland level in any given region, so that on this upper level flowing wells are

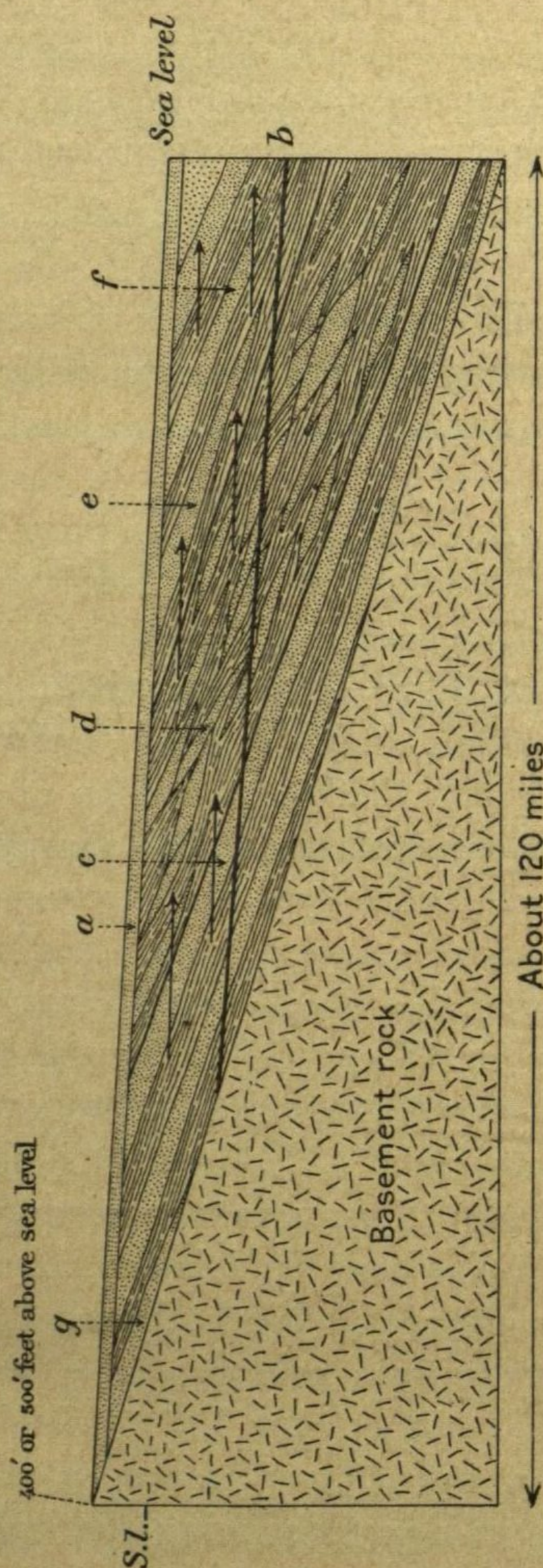


FIG. 18.—Section explaining the efficient causes of artesian flows.

impossible. It is a matter of common knowledge among the inhabitants that flows are more apt to be obtained when the well is located on ground lower than the general level of the immediately surrounding country; that is, in valleys or on low terraces.

A factor not mentioned above which may in certain cases be of importance in determining the height to which water will rise in a well