

15A NCAC 02C .0109 PUMPS AND PUMPING EQUIPMENT

- (a) The pumping capacity of the pump shall be consistent with the intended use and yield characteristics of the well.
- (b) The pump and related equipment for the well shall be located to permit easy access and removal for repair and maintenance.
- (c) The base plate of a pump placed directly over the well shall be designed to form a watertight seal with the well casing or pump foundation.
- (d) In installations where the pump is not located directly over the well, the annular space between the casing and pump intake or discharge piping shall be closed with a watertight seal.
- (e) The well head shall be equipped with a screened vent to allow for the pressure changes within the well unless a suction lift pump or single-pipe jet pump is used or artesian flowing well conditions are encountered.
- (f) The person installing the pump in any water supply well shall install a threadless sampling tap at the wellhead for obtaining water samples except:
 - (1) In the case of suction pump or offset jet pump installations the threadless sampling tap shall be installed on the return (pressure) side of the pump piping; and
 - (2) In the case of pitless adapter installations, the threadless sampling tap shall be located upstream of the water storage tank.

The threadless sampling tap shall be turned downward, located a minimum of 12 inches above land surface, floor, or well pad, and positioned such that a water sample can be obtained without interference from any part of the wellhead. If the wellhead is also equipped with a threaded hose bibb in addition to the threadless sampling tap, the hose bibb shall be fitted with a backflow preventer or vacuum breaker.

- (g) A priming tee shall be installed at the well head in conjunction with offset jet pump installations.
- (h) Joints of any suction line installed underground between the well and pump shall be tight under system pressure.
- (i) The drop piping and electrical wiring used in connection with the pump shall meet all applicable underwriters specifications.
- (j) Only potable water shall be used for priming the pump.
- (k) Any materials containing lead shall meet NSF 61 standards.

*History Note: Authority G.S. 87-87; 87-88;
Eff. February 1, 1976;
Amended Eff. September 1, 2009, December 1, 1992; April 20, 1978;
Readopted Eff. September 1, 2019.*