## VIRGINIA DEPARTMENT OF HEALTH MGINEERING DESCRIPTION SHEET (

DATE: 15 February 1983

215 North Main St.

INSTALLATION:

Hillcrest View Subdivision - Community

COUNTY:

Franklin

LOCATION:

North of and adjacent to State Route 40, 1.4 miles east

of Ferrum

OWNER:

Aubon Water Company

104 Randolph Street

Rocky Mount, Virginia 24151

(703 - 483 - 1286)

OPERATOR:

G. Ray Boone using private lab (703-483-1286) 1/29/87 BEV

PERMIT NUMBER:

5067325

DATE ISSUED:

14 April 1980

TYPE OF TREATMENT:

None Chloringsin

SOURCE:

One drilled well

DESIGN BASIS:

16 equivalent residential connections (ERC)

DESCRIPTION OF SYSTEM:

This system consists of one well, one 3000-gallon atmospheric tank, a booster pump, one 550-gallon pressure tank, and distribution system.

<u>Well</u> - Is 448 feet in depth and cased with 6-inch casing to a depth of 82 feet and grouted to the same depth. The well casing extends approximately 12 inches above the concrete floor. The well has a reported yield capacity of 25 gpm. The well is equipped with a submersible pump driven by a 5 Hp, 3450 RPM electric motor. The pump has a rated capacity of 20 gpm. The well is provided with a water meter, blowoff, control pressure switch, check valve, gate valve, pressure gauge, casing vent, sanitary seal, and sample tap. The well is housed in a 1' x 3' x 2' high brick structure with a metal cover.

Atmospheric Storage Tank, Booster Pump, and Pressure Tank - Water is pumped from the well to a 3000-gallon atmospheric storage tank which is provided with an overflow and access manhole. A booster pump is provided. The pump is driven by a 3/4 Hp, 3450 RPM motor and operates between 40 to 50 psi. The pump discharges to a 550-gallon pressure tank which discharges to the distribution system.

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DESIGN BASIS:

Source Capacity - well yield = 25 gpm

25 gpm - 0.5 gpm/ERC = 50 ERC

Well Pump Capacity - well pump = 20 gpm

20 gpm - 0.5 gpm/ERC = 40 ERC

Booster Pump Capacity - insufficient information

Storge Capacity -  $(3000 \text{ gallons}) + (550 \text{ gallons} \times 1/3) = 16 \text{ ERC}$ 200 gallons/ERC

This system is limited to 16 equivalent residential connections. TVP/lbj