

WELL RECORD

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES
DIVISION OF GROUND WATER
BOX 9392 - RALEIGH, N. C.

GR-T-2-69
(1-1-XX)

RECEIVED
APR 18 1969

N-27 w-1
1047

N. C. Dept. of Water & Air Resources
Ground Water Division
Raleigh, N. C. Permit No.

Drilling Contractor HARTSFIELD WATER COMPANY, INC. Reg. No. 178

1. Town Lizzie, North Carolina

2. Location Highway 258, Between Farmville, & Snow Hill

Green
Quadrangle No. N 27 W

Show a sketch of location on back of form

3. Owner Lizzie Water Corporation, Inc.

Address Route 1, Box 237, Farmville, N. C.

4. Topography: draw, slope, hilltop, valley, flat

5. Use of Well Community Date Completed 2/10/69

Water System

6. Rig type or method Rotary Total Depth 320'

7. Casing: Depth Diam. Type

From _____ to _____ ft. _____ in.

See attached well drawing

8. Grout: Depth Material Method

From _____ to _____ ft. _____

See attached driller's log

9. Screen: Depth Diam. Type and opening

From _____ to _____ ft. _____ in.

11. Water Zones (depth) _____

See attached pumping test.

10. Permanent Pump:

Installed- Date 3-19-69

By Hartsfield Water Co Inc

Type Submersible Make Jacuzzi

Capacity _____ (gpm) Hp. 5

Intake depth _____

Airline depth _____

12. Static Water Level: _____ ft. above below top of casing

which is _____ ft. above land surface.

Date 2/10/69

13. Yield (gpm) 43 Method of testing Air

14. Pumping Water Level: _____ ft. after _____ hrs.

at _____ gpm.

15. Water Quality See attached water analysis

Temperature (°F) _____

16. Well sterilization method H T H

17. Remarks: _____

353023

773715

E-5

QIV

LOG

PH

+70msl

WLE = 0

I do hereby certify that this well record is true and exact.

Jerald H. Hartsfield
SIGNATURE OF CONTRACTOR OR AGENT

White copy - Department of Water & Air Resources; Blue-Drillers copy; Green-Owner's copy.

Orlando Laboratories, Inc.

P. O. Box 20254 • Orlando, Florida 32814 • 305 424-5606

WATER ANALYSIS REPORT

ANALYTICAL LABORATORY DIVISION

Report to: Hartfield Water Co. Inc.
Date: Feb. 17, 1969
Sample Number: 2687

Appearance: clear
Sampled by: Client
Identification: Figgie Water Corp. Inc.
Figgie, NC.

METHODS

This water was analyzed using methods adapted from "Standard Methods for the Examination of Water and Wastewater," Twelfth Edition, 1965, APHA, AWWA and WPCF.

RESULTS

Determination	p.p.m.	Determination	p.p.m.
Total Dissolved Solids, @ 105°C	<u>284</u>	Sulfate, as SO ₄	<u>0</u>
Total Hardness, as CaCO ₃	<u>60</u>	Fluorides, as F	<u>0.2</u>
Calcium Hardness, as CaCO ₃	<u>18</u>	Silica, as SiO ₂	<u>2</u>
Magnesium Hardness, as CaCO ₃	<u>42</u>	Copper, as Cu	<u>0</u>
Calcium, as Ca	<u>7.2</u>	Phosphate (Total), as PO ₄	<u>0.5</u>
Magnesium, as Mg	<u>10</u>	Color, Standard Platinum Cobalt Scale	<u>5</u>
Alkalinity (Phenolphthalein), as CaCO ₃	<u>0</u>	Odor	<u>0</u>
Alkalinity (Total), as CaCO ₃	<u>174</u>	pH (Laboratory)	<u>8.3</u>
Carbonate Alkalinity, as CaCO ₃	<u>0</u>	pHs	<u>8.1</u>
Bicarbonate Alkalinity, as CaCO ₃	<u>174</u>	Stability Index	<u>7.9</u>
Hydroxides, as OH	<u>0</u>	Saturation Index	<u>0.2</u>
Carbon Dioxide, as CO ₂	<u>1.7</u>	Turbidity, Silica Scale	<u>0</u>
Carbonates, as CO ₃	<u>0</u>		
Bicarbonates, as HCO ₃	<u>105</u>		
Chlorides, as Cl	<u>12</u>		
Iron, as Fe	<u>0.1</u>		
Manganese, as Mn	<u>0</u>		

Signed: J. L. Fackler
Chemist

(To convert ppm to grains per gallon, divide ppm by 17.1)

INSPECTIONS, ANALYSIS, QUALITY CONTROL, RESEARCH & DEVELOPMENT IN MICROBIOLOGY, BIOCHEMISTRY & CHEMISTRY.

HARTSFIELD WATER COMPANY, Inc.

P. O. DRAWER 3109 - PH. 523-2154

KINSTON, NORTH CAROLINA 28501

H-1

CUSTOMER: Lizzie Water Corporation, Inc. ADDRESS: Lizzie, North Carolina

TYPE OF FORMATION CLAY - SAND ROCK & ETC.	COLOR	RATE OF DRILLING HARD - SOFT JETTED & ETC.	SIZE OF GRAIN IF SAND	OTHER INFORMATION	THICKNESS	
					FROM	TO
Clay	Yellow	Med. Hard			0	9
Clay	Gray	Med. Hard			9	19
Clay	Gray	Med. Hard			19	29
Clay	Gray	Med. Hard		Harder at bottom	29	39
Clay	Gray	Hard			39	49
Sand	Gray	Loose	M/F	Wood	49	59
Sand	Gray	Loose	M/F	Wood & Clay	59	69
Sand	Gray	Loose	M/F	Wood & Rock	69	79
Sand	Gray	Loose	M/F	Wood & Rock	79	89
Sand	Gray	Loose	M/F	Clay at bottom Wood & Rock	89	99
Clay	Gray	Very Hard			99	108
Sand	Gray	Jet	M/F		108	117
Clay	White	Med. Hard			117	127
Clay	White	Loose		Streak of sand	127	137
Sand	Gray	Loose	M/F	Wood	137	147
Sand	Gray	Loose	M/F	Wood	147	157
Sand & Clay	Gray	Loose	M/F		157	167
Sand	Gray	Loose	M/F		167	177
Sand	Gray	Loose	M/F	Streak of Clay	177	187
Sand	Gray	Loose	M/F	Streak of clay	187	197
Clay	Red	Very Hard		Soft in place	197	207
Clay	Red	Hard		Sand at bottom	207	217
Clay	Red	Hard		Soft in places	217	227
Clay	Red	Hard		Sand at bottom	227	237
Sand	Red	Jet	M/F		237	247
Sand	Red	Jet	M/F		247	250

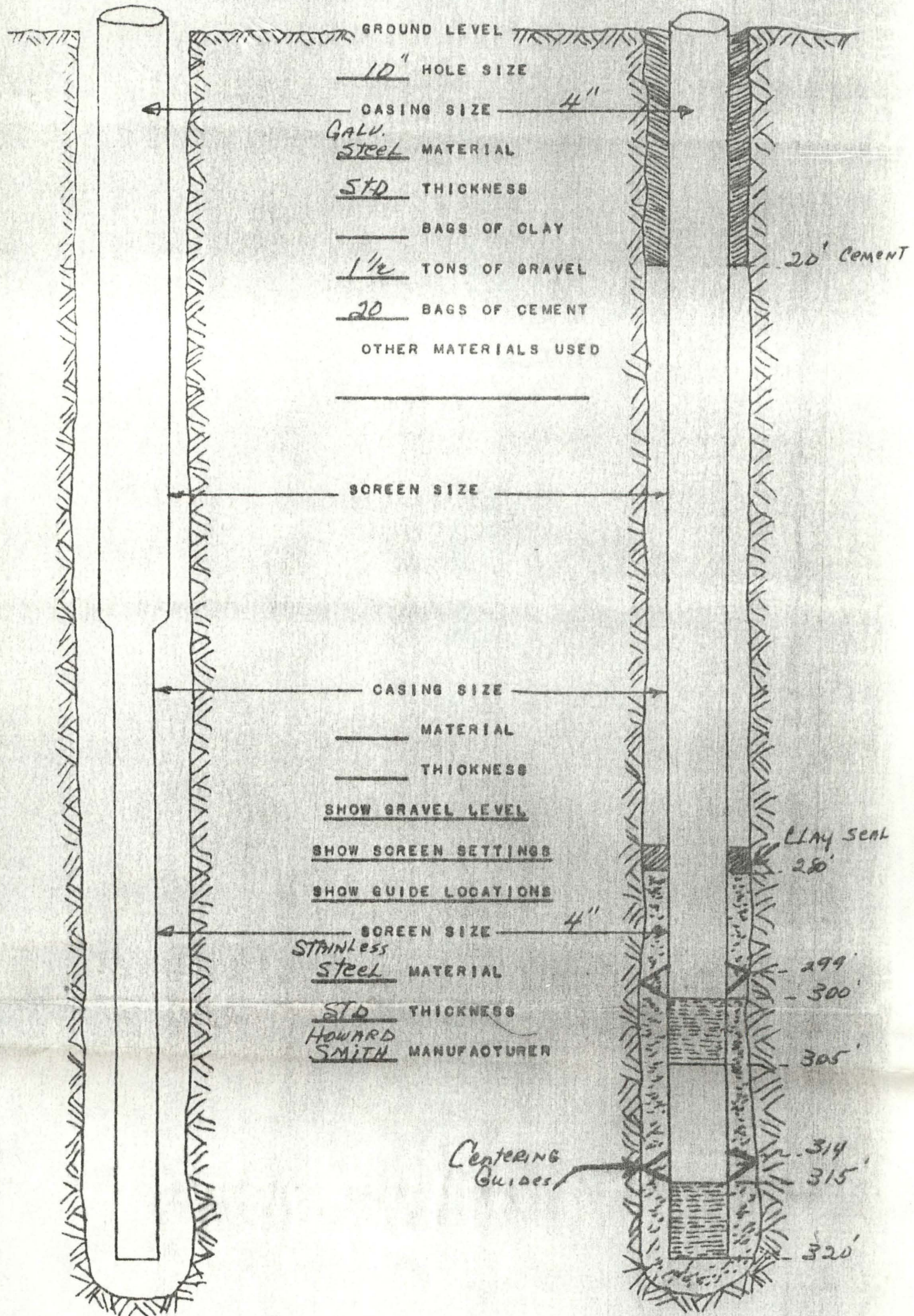
WELL DRAWING & MATERIALS LIST

HARTSFIELD WATER COMPANY, INC.
P. O. DRAWER 3109 - PH. 523-2154
KINSTON, NORTH CAROLINA 28501

CUSTOMER: LIZZIE WATER CORP., INC. WELL No. 1

ADDRESS: LIZZIE, NORTH CAROLINA

WELL LOCATION: BEHIND L.L. MURPHY'S STORE



Note: Washed samples were floated + float slides were on file. These were examined; (F) = float

Depth	Type	Genus	Species	Quant.	Comments	Hole	Lithology and other comments
0-9		NO FAUNA					(U) hard, yellow sandy clay (W) yellow + white SD, C-FG + TR. PINK GRAINS + lignite (F) lignite; VFG-SD
9-19		DIATOMS		R			(U) hard pale grey sandy clay (W) med grey SD FG + sandy grey clay + 5% SD CG, ANG-subANG (F) FG-SD, lignite, mica, DIATOMS
19-29		DIATOMS		R			(U) pale yellowish grey silty clay (W) pale grey sand FG, pale grey clay, SAND CG ~ 3% + TR mica (F) SD-FG; mica, lignite; DIATOMS
29-39		DIATOMS		R			(U) pale grey sandy (FG) + slightly micaceous clay (W) SD FG (1% CG) + pale grey sandy clay, TR. oxidized SD GRAINS (F) FG-AD, lignite, mica, DIATOMS
39-49		DIATOMS		R			(U) mottled yellow, Lt. grey + DK. grey sandy clay (W) Lt grey clay, SD C-FG (most SD CG subANG, some RND) + TR lignite, gypsum (F) SD FG; lignite; mica; DIATOMS
49-59		NO FAUNA					(U) white subANG SD; TR. lignite (W) white subANG SD; TR lignite + colored GRAINS (F) lignite; mica; SD FG
59-69		"					(U) pale grey SD C-FG + TR dk brown/grey clay, mica (W) pale grey SD C-FG + TR pale grey clay + lignite (F) M-FG-AD, lignite, mica

Depth	Type	Genus	Species	Quant	Comments	Hole	Lithology and other comments
69-79		NO FAUNA					(U) predom MC-white SD + sandy clay (W) white c-FG SD + TR pale grey sandy clay (F) FG SD; lignite
79-89		"					(U) white SD c-FG + v. sandy clay + TR, lignite (W) white SD c-FG (TR violet + pink grains) + TR lignite + mica (F) SD-FG; lignite; mica
89-99		"					(U) LAA (W) LAA (F) LAA
99-108		"					(U) v. sandy mottled Lt grey + dk brown slightly lignitic clay (W) c-FG white-pale grey SD; TR lignite, mica; gypsum (F) SD-FG; lignite; mica; gypsum
108-117		Seed pod		1			(U) M-CG SD + TR clay (W) pale grey M-CG subang SD. (F) SD-FG; lignite; mica; seed pod
117-127		NO FAUNA					(U) Lt. brown/grey v. sandy clay (W) VC-FG white SD + TR lignite + v. r. TR. Hematite (F) FG SD, lignite, mica
127-137		"					(U) mottled dk + Lt brown sandy + slightly lignitic clay (W) SD c-FG-subang-ang; TR. Lt brn + dk brn clay; lignite (F) SD-FG; lignite; mica

Depth	Type	Genus	Species	Quant	Comments	Hole	Lithology and other comments
137-147		NO FAUNA					(U) C-FG dingy white SD + TR CLAY (W) white C-FG SD, + TR lignite + mica (F) FG SD; lignite; mica
147-157		"					(U) LAA (W) LAA (F) LAA
157-167		"					(U) C-FG dingy white SD + TR. brn clay (W) white C-FG SD + TR. lignite mica (F) SDFG, lignite, mica
167-177		"					(U) C-FG dingy white SD + TR clay (W) LAA (F) SDFG, lignite, mica, gypsum
177-187		"					(U) C-FG dingy white SD (W) C-FG white SD + TR red yellow clay (F) FG SD, mica, lignite
187-197		"					(U) LAA (W) LAA (F) LAA
197-207		"					(U) V. Sandy Lt. TAN clay (W) VC-FG white SD (F) FG SD; lignite; mica; gypsum
207-217		"					(U) sandy, lignite mottled tan + red clay (W) VC-FG white SD, + TR lignite, hematite + [phosphate V.R. - 1 GRAIN - ? contamination] (F) SDFG; lignite; mica
217-227		"					(U) LAA (W) VC-FG white SD + TR lignite Hematite (+ poorly washed V. soy clay.) (F) FG SD; lignite; mica

Depth	Type	Genus	Species	Quant	Comments	Hole	Lithology and other comments
227-237		NO FAUNA					(u) Mottled tan + red v. sandy clay (w) VC-FG white SD + TR. clay + hematite (F) Reddish FG SD, lignite, mica
237-247		"					(u) LAA (w) LAA (F) LAA
247-250		"					(u) Mottled, very sandy tan + orange/red clay (w) VC-FG SD, white + TR hematite + feldspar (F) FG SD, lignite, mica
250-257		"					(u) dingy white SD, c-FG + TR clay + hematite (w) white SD c-FG + TR. lignite + hematite (F) SD FG, Lignite
257-267		"					(u) dingy white SD, TR clay (w) white c-FG SD; TR hematite (F) SD-FG; lignite; mica
267-277		"					(u) LAA (w) LAA (F) LAA
277-287		"					(u) c-FG dingy white SD + TR. clay (w) c-FG white SD + TR. hematite (F) SD FG; lignite; mica
287-297		"					(u) dingy white SD c-FG + TR clay (pale grey) (w) white SD FG + TR clay (F) SD FG; lignite; mica
297-307		"					(u) dingy white SD c-FG (w) c-FG SD + TR hematite (F) SD FG, lignite, mica

