

DRILLER: SYDNOR HYDRODYNAMICS REG. NO. 144 LIC. NO. 28 PERMIT NO. 178

1. LOCATION: TOWN Wallace
MAP: Town Well

COUNTY Duplin QUADRANGLE NO. X31F-3

2. OWNER: Town of Wallace
ADDRESS: Wallace, North Carolina # 7

3. TOPOGRAPHY: draw, slope, hill, valley, (flat) ridge
4. RIG TYPE OR METHOD: Rotary

5. TOTAL DEPTH: 380 ft. Date May 16, 1969

6. CASING: Depth 69 ft.; Diam. 20 in.; Type Steel
Grout: Depth 319/69; Method 10 Pressure Steel

7. SCREEN: from (ft.) to (ft.) slot size type
234 264 12 Stainless steel
278 288 12 Stainless steel
304 314 12 Stainless steel

8. WATER ZONES (depth): 234-264 - 278-288
304-314

9. QUALITY: see Chemical Analysis TEMP: _____

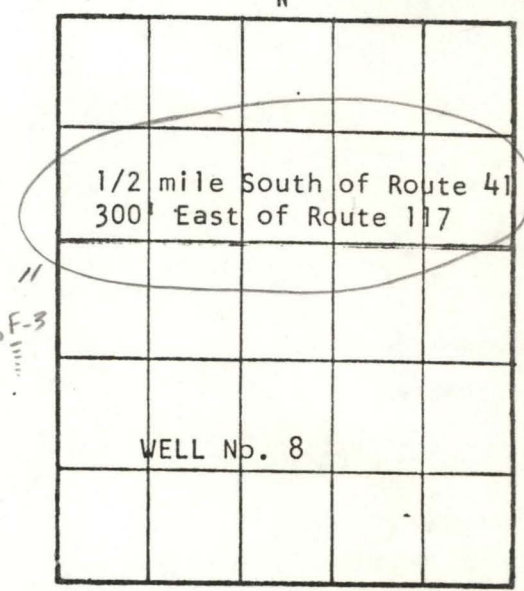
10. STATIC WATER LEVEL: 50 ft. below top of casing which is
2 ft. (above, below) land surface. Date June 18, 1969

11. YIELD: (gpm) 517 Flow, (Pump) Bail, Est.

12. PUMPING WATER LEVEL: 192 ft. after 48 hrs. pumping at 517 gpm. Spec. cap. 3.6 gpm/ft. of dd.

13. PUMP: type _____, Intake depth _____, Cap. _____ gpm, Hp. _____

14. REMARKS: _____



(place this sheet over correct square on map, match corners and circle a dot at well location.)

15. DRILL LOG:

Soil and Rock Formation	Depth	
	From	To
Top soil	0	1
Sandy clay:	1	4
Red clay	4	6
Gray clay:	6	9
Gray sandy clay	9	15
Black Sandy clay	15	57
Hard rock	57	58
Black sandy clay	58	70
Gray sandy clay - wood, shells, rock	70	74
Rock	74	75
Gray sandy clay - streaks of shell	75	118
Rock	118	120
Sand, clay, shells	120	168
Rock	168	170
Sandy clay & shells	170	178
Rock	178	179
Gray, black sandy clay & shells	179	230
Sand	230	239

Black, gray sand with streaks of Shell rock	239-323
Hard Clay	323-350
Sand	350-363
Clay	363-376
Sand	376-378
Clay	378-380

344345
775921

5280
5180

SYDNOR HYDRODYNAMICS, INC.

WELL TEST INFORMATION SHEET

CUSTOMER: Town of Wallace, North Carolina DATE STARTED: June 18, 1969
Duplin Company DATE COMPLETED: June 20, 1969
LOCATION: Wallace, North Carolina WELL TEST NO.: 8
 JOB NUMBER: 25377

WELL DESCRIPTION: Sand or Screened Well (X) Rock Well ()
Total Depth 320 Ft. Size 26 " to 70 " and 19 " to 319 "
0-234
Casing Depth 264-278 Ft. Screens 234-264 - 278-288 - 304-314
288-304
Construction: 314-319 Domestic () Class 11-B () 11-A () 1 ()
Static Water Level 50 Ft. Measured June 18, 1969 Date
Description of Formations: Clay, gray sand, few shells, & some rock

TEST PUMP: Turbine (X) Sumo () Piston () Air () Bailer ()
Electric
Pump Intake 215 Ft. Below Ground; Air Line tape Ft. Below Ground
Size Pump Discharge Ft. Metering Device 6 x 5 orifice
Description of Pump 11 stage 7-7/8 turbine with 5" pump column,
drive with G.M.C. Diesel

TEST DATA: Static Level Before Installing Pump 50 Ft.
Electric
Air Line tape PSI Before Starting Pump; Time of Measurement 6:45
Time Test Pump Started 6:50; Time Test Pump Stopped 6:50
Total Hours Pumped 48 Final Capacity 517 GPM @ 192 Ft.
Static Level Ft., 60 Ft., Hr. 40 Min. After Pump Stopped.

INSTRUCTIONS: For the first hour of pumping, take readings at least every 5 minutes and thereafter at least every 15 minutes. Obtain two 1-gallon representative samples of water near the end of the test. If possible, measure recovery for time equal to 1/3 length of the test.

Sample to Froehling & Robertson - June 23, 1969.

TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e. g., water clear, cloudy, taking air, etc.)
6:50	17.5			153	517	153	Muddy
6:55	17.5			159	517	159	Cloudy
7:00	17			162	510	162	Cloudy
7:05	16.5			163	503	163	Cloudy
7:10	20			166	548	166	Clear
7:15	19.5			168	542	168	Clear
7:20	19.5			170	542	170	Clear
7:25	19.5			173	542	173	"
7:30	19.5			177	542	177	"
7:35	19.5			180	542	180	"
7:40	19			180	536	180	"
7:50	19			180	536	180	"
8:00	19			180	536	180	"
8:15	19			182	536	182	"
8:30	18.5			182	530	182	"
9:00	18.5			182	530	182	"
10:00	18.5			182	530	182	"
11:00	18			185	524	185	"
noon 12:00	18			185	524	185	"
1:00	17.5			185	517	185	"
2:00	17.5			185	517	185	"
3:00	17.5			187	517	187	"
4:00	17.5			187	517	187	"
5:00	17.5			187	517	187	"
6:00	17.5			187	517	187	"
7:00	17.5			187	517	187	"
8:00	17.5			187	517	187	"

TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e. g., water clear, cloudy, taking air, etc.)
9:00	17.5			187	517	187	Clear
10:00	17.5			187	517	187	"
11:00	17.5			187	517	187	"
12:00	17.5			189	517	189	"
1:00	17.5			189	517	189	"
2:00	17.5			189	517	189	"
3:00	17.5			192	517	192	"
4:00	17.5			192	517	192	"
5:00	17.5			192	517	192	"
6:00	17.5			192	517	192	"
7:00	17.5			192	517	192	"
8:00	17.5			192	517	192	"
9:00	17			189	510	189	"
10:00	17			189	510	189	"
11:00	17			189	510	189	"
noon							
12:00	17			189	510	189	"
1:00	17.5			192	517	192	"
2:00	17.5			192	517	192	"
3:00	17.5			192	517	192	"
4:00	17.5			192	517	192	"
5:00	17.5			192	517	192	"
6:00	17.5			192	517	192	"
7:00	17.5			192	517	192	"
8:00	17.5			192	517	192	"
9:00	17.5			192	517	192	"
10:00	17.5			192	517	192	"
11:00	17.5			192	517	192	"

June 18-19, 1969

E. S. Jr.

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TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e. g., water clear, cloudy, taking air, etc.)
12:00	17.5			192	517	192	Clear
1:00	17.5			192	517	192	"
2:00	17.5			192	517	192	"
3:00	17.5			192	517	192	"
4:00	17.5			192	517	192	"
5:00	17.5			192	517	192	"
6:00	17.5			192	517	192	"
6:50	17.5			192	517	192	"
	SHUT DOWN						
7:30				60'			



1881

FROEHLING & ROBERTSON, INC.

INSPECTION ENGINEERS • CHEMISTS • BACTERIOLOGISTS

CABLE ADDRESS—"FROEHLING"

MAIN OFFICE AND LABORATORIES
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BRANCH LABORATORIES
NORFOLK, CHARLOTTE, RALEIGH
WASHINGTON, BALTIMORE
GREENVILLE, ROANOKE, WILMINGTON

CHEMICAL ANALYSIS OF WATER

RICHMOND, VA. 23206
JUNE 27, 1969

NO. **T-627-6-H**

MADE FOR: **SYDNOR HYDRODYNAMICS, INC., P. O. BOX 1476, RICHMOND, VA.**

MARKED: **TOWN OF WALLACE, N. C. WELL #8**

P.O. NO. 54534

pH VALUE (ELECTROMETRIC) **7.3**

PARTS PER MILLION

XXXXXX —TOTAL SOLIDS AT 103°C.	180.0
LOSS ON IGNITION (ORGANIC AND VOLATILE MATTER)	21.0
MINERAL RESIDUE (NON-VOLATILE MATTER)	159.0
SUSPENDED (INSOLUBLE) MATTER	-
FREE CARBON DIOXIDE (CO ₂)	14.0
PHENOLPHTHALEIN (CARBONATE) ALKALINITY as CaCO ₃	0.0
METHYL ORANGE (BICARBONATE) ALKALINITY as CaCO ₃	154.0
TOTAL HARDNESS (BY CALCULATION) as CaCO ₃	91.1
SOAP HARDNESS as CaCO ₃	92.0

ANALYSIS OF MINERAL RESIDUE:

SILICA (SiO ₂) AND INSOLUBLE MATTER	5.5
IRON (Fe)	0.05
XXXXXXXXXX MANGANESE (Mn)	NIL
CALCIUM (Ca)	22.0
MAGNESIUM (Mg)	8.8
SODIUM AND POTASSIUM as SODIUM (Na)	31.7
BICARBONATE (HCO ₃) (BY CALC. FROM ALKALINITY)	187.9
CARBONATE (CO ₃) (BY CALC. FROM ALKALINITY)	0.0
CHLORIDE (Cl)	4.0
SULFATE (SO ₄)	0.4
NITRATE (NO ₃)	0.1
PHOSPHATE (PO ₄)	-
COPPER (Cu)	-
FLUORIDE (F)	NIL

REMARKS:

4cc

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Form CW-1-A

RESPECTFULLY,

FROEHLING & ROBERTSON, INC.