

NORFOLK TESTING LABORATORIES

MEMBER OF THE

AMERICAN SOCIETY FOR TESTING MATERIALS

NORFOLK, VIRGINIA 23510

301 West Freeman St.

Telephones:
622-6136
623-3387

P. O. BOX 122

Lab No. 120237 Date Rec'd. 8/19/71 Marked:-- Well #2, 245' -- 260'
Camp Lejeune, N.C.

Sample of Water

From Layne Atlantic Co.
Norfolk, Va.

REPORT OF ANALYSIS

	Parts Per Million
Total Solids by Evaporation	266.0
Free Carbon Dioxide, CO ₂	None
Phenolphthalein Alkalinity as CaCO ₃	16.0
Methyl Orange Alkalinity as CaCO ₃	174.0
Hardness as CaCO ₃	167.5
Sodium Chloride, NaCl	61.6
Equivalent as Chloride, Cl	37.4
Iron, Fe	1.8
Nitrates, NO ₃	None
pH Value	7.6

Respectfully Submitted,
Norfolk Testing Laboratories

Reported 8/23/71

J. P. Hattinger Chemist



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NORFOLK, VIRGINIA 23510

Lab No. 120236 Date Rec'd. 8/19/71 Marked:- Well #2, 107' - 122'
Camp Lejeune, N.C.

Sample of Water

From Layne Atlantic Co.
Norfolk, Va.

REPORT OF ANALYSIS

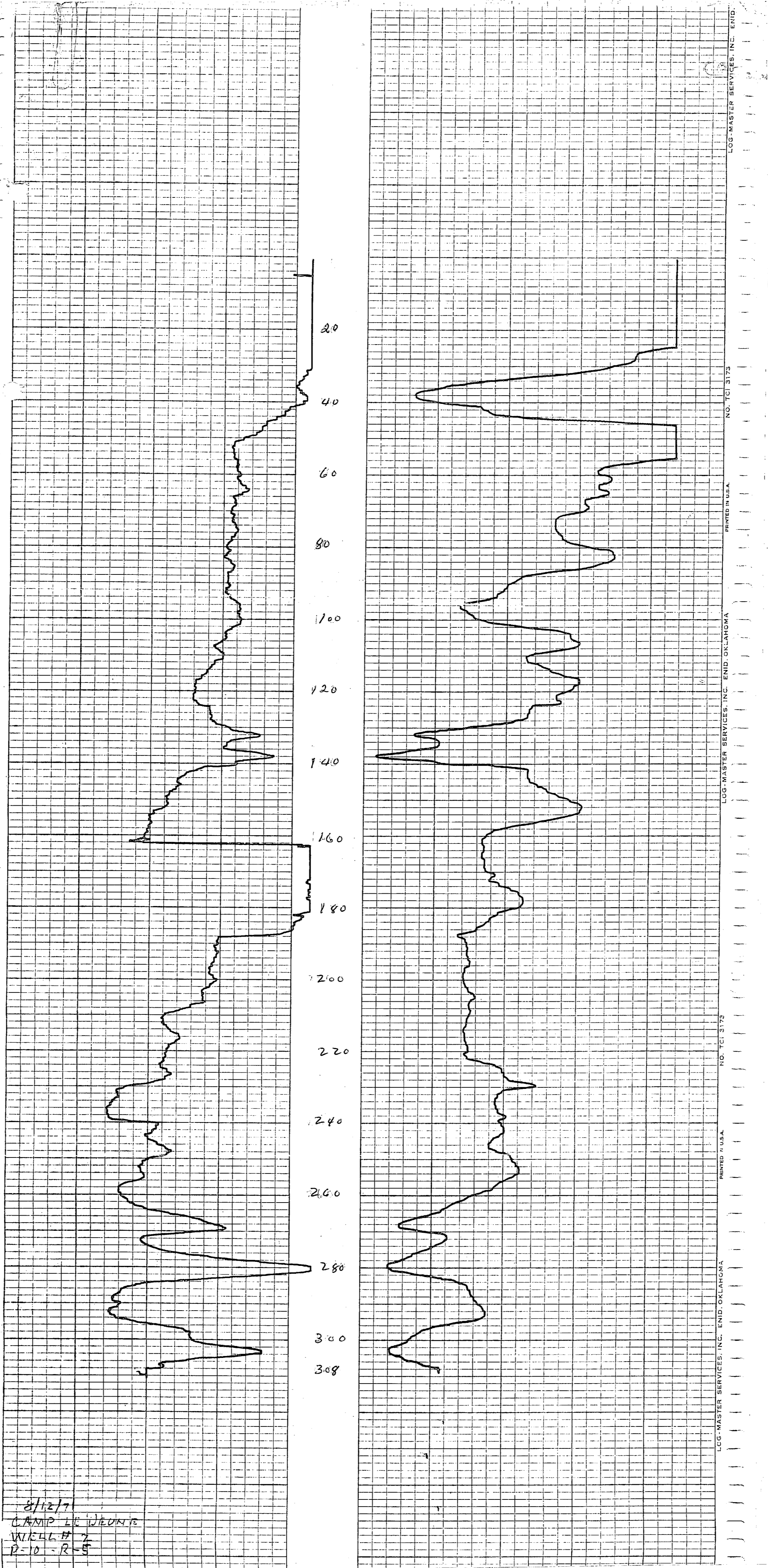
	Parts Per Million
Total Solids by Evaporation	272.0
Carbon Dioxide, CO ₂ , Free	None
Phenolphthalein Alkalinity as CaCO ₃	14.0
Methyl Orange Alkalinity as CaCO ₃	175
Hardness as CaCO ₃	167.5
Sodium Chloride, NaCl	61.6
Equivalent as Chloride, Cl	37.4
Iron, Fe	1.8
Nitrates, NO ₃	None
pH Value	7.6

Respectfully Submitted,
Norfolk Testing Laboratories

Reported 8/23/71

J. P. Gutting Chemist





8/12/77
 CAMP LE WEAVER
 WELL # 2
 P-10-R-5

LOG-MASTER SERVICES, INC. ENID, OKLAHOMA
 NO. TCI 372
 PRINTED IN U.S.A.
 LOG-MASTER SERVICES, INC. ENID, OKLAHOMA
 NO. TCI 372
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Lab No. 120236 Date Rec'd. 8/19/71

Marked:-- Well #2, 107' - 122'
Camp Lejeune, N.C.

Sample of Water

From Layne Atlantic Co.
Norfolk, Va.

648

REPORT OF ANALYSIS

	Parts Per Million
Total Solids by Evaporation	272.0
Carbon Dioxide, CO ₂ , Free	None
Phenolphthalein Alkalinity as CaCO ₃	14.0
Methyl Orange Alkalinity as CaCO ₃	175
Hardness as CaCO ₃	167.5
Sodium Chloride, NaCl	61.6
Equivalent as Chloride, Cl	37.4
Iron, Fe	1.8
Nitrates, NO ₃	None
pH Value	7.6

Respectfully Submitted,
Norfolk Testing Laboratories

J. P. Matting Chemist

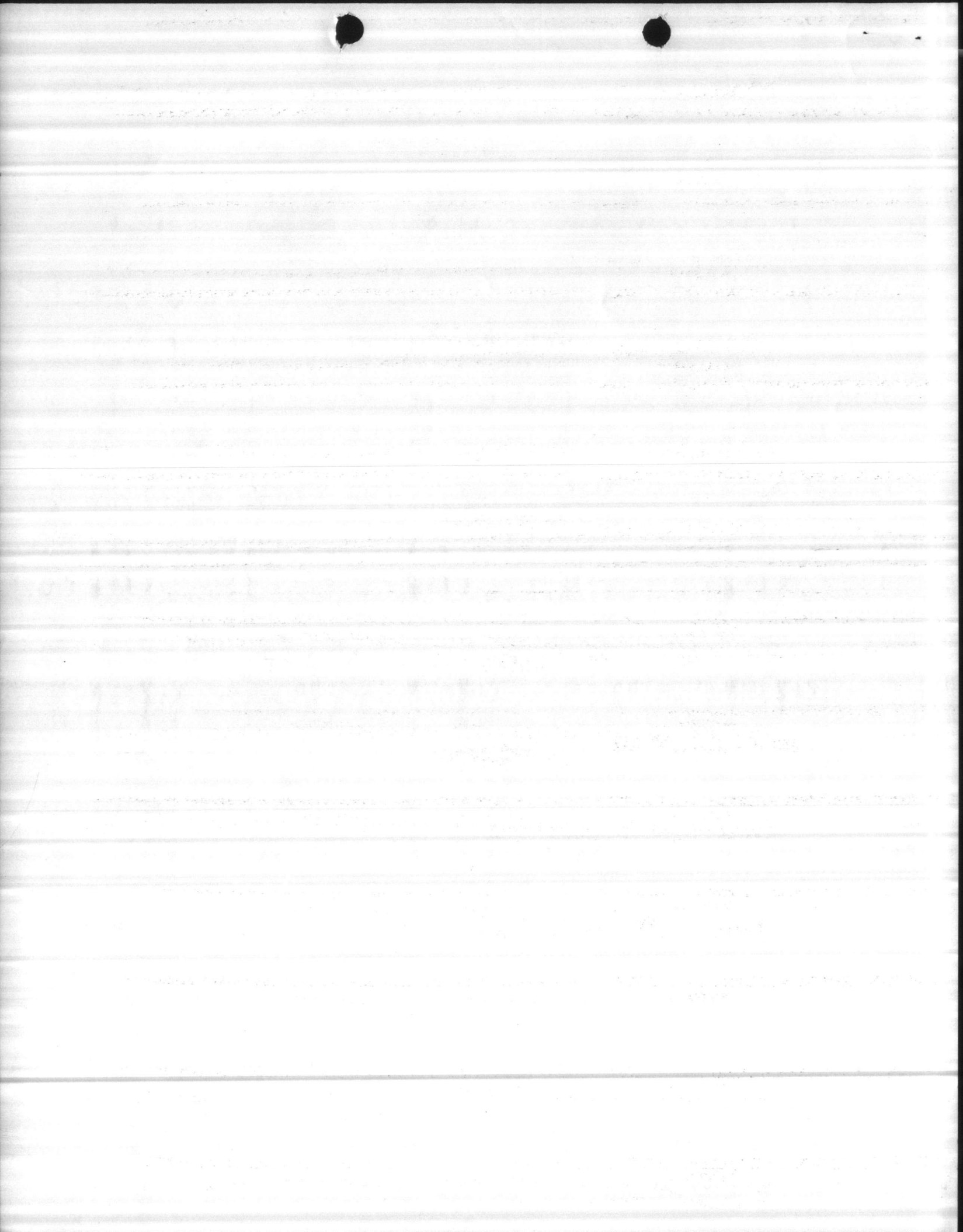
Reported 8/23/71



CORBIN CONSTRUCTION COMPANY
 Camp LeJeune, North Carolina
 Pumping Test Well No. 2

TIME	GPM	PUMPING LEVEL	TIME	GPM	PUMPING LEVEL
9:00	150	11'	7:00	260	114' 1"
9:15	150	52' 1"	8:00	260	105' 7"
9:30	150	52' 6"	9:00	260	102' 3"
9:45	150	55' 3"	10:00	260	101' 6"
10:00	150	57' 8"	11:00	260	102' 7"
10:15	150	57' 11"	12:00	260	102' 3"
10:30	150	58' 3"	1:00	260	101' 4"
10:45	150	58' 3"	2:00	260	100' 9"
10:45	150	58' 3"	3:00	260	100' 7"
11:00	150	58' 3"	4:00	260	102' 1"
11:15	200	72' 3"	5:00	260	101' 7"
11:30	200	73' 6"	6:00	260	101' 4"
11:45	200	73' 11"	7:00	260	100' 0"
12:00	200	74' 4"	8:00	260	100' 0"
12:15	200	74' 11"	9:00	260	99' 4"
12:30	200	74' 11"	10:00	260	99' 2"
12:45	200	75' 0"	11:00	260	103' 0"
1:00	200	75' 2"	12:00	260	102' 1"
1:15	260	89' 11"	12:45	247	95' 0"
1:30	260	90' 8"	12:50	247	96' 6"
1:45	260	91' 5"	1:15	247	96' 6"
2:00	260	92' 9"	1:30	247	96' 5"
2:15	260	93'	1:45	248	96' 3"
2:30	260	94' 2"	2:15	260	96' 6"
2:45	260	95' 6"	2:30	260	96' 6"
3:00	260	95' 7"	3:00	260	96' 3"
4:00	260	100' 8"	3:45	260	96' 5"
5:00	260	98' 9"	4:00	260	96' 9"
6:00	260	99' 5"			

10' of Top Screen 114' - 124'



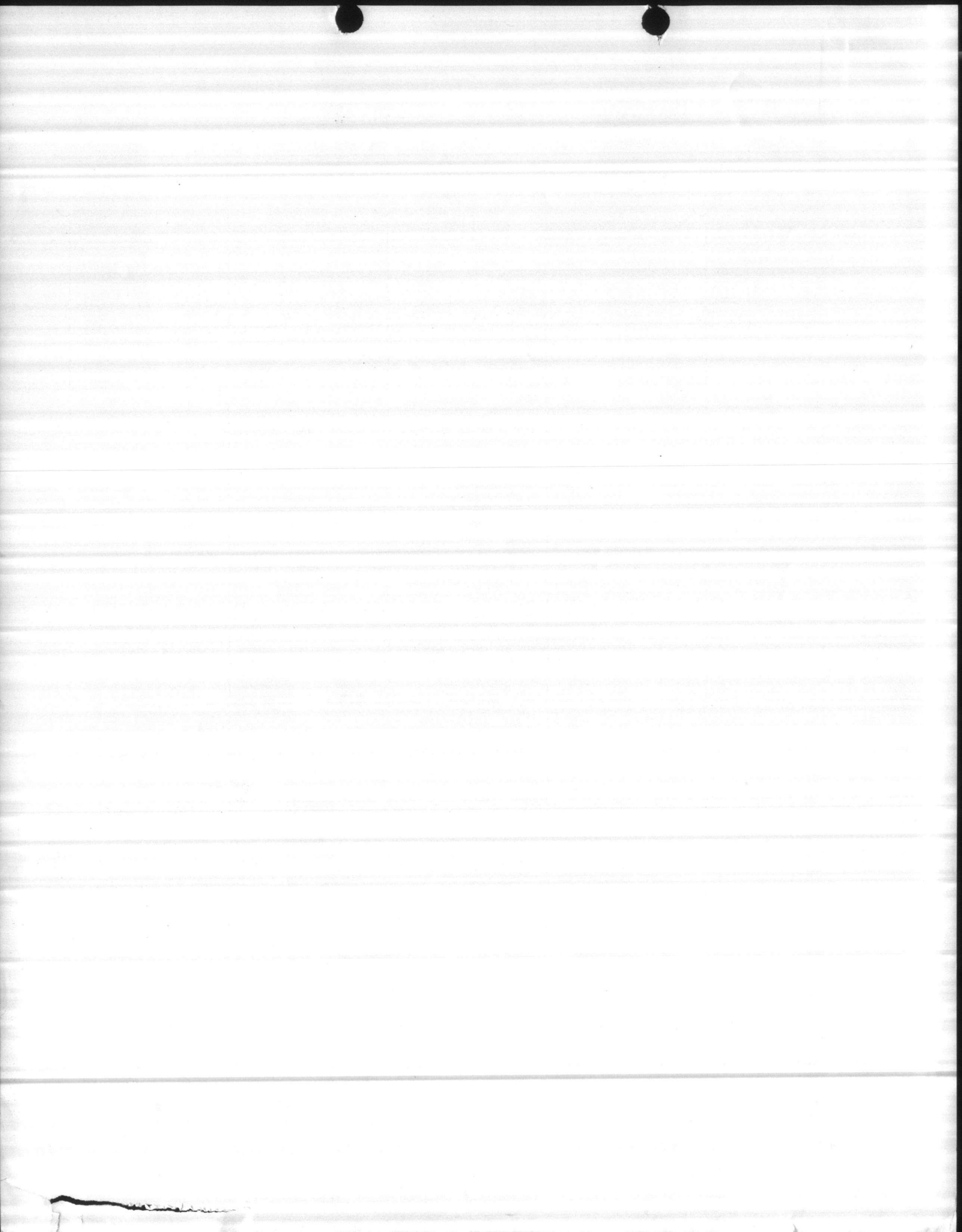
Corbin Construction

Aug. 11, 71

Camp Lejeune Jot # 40936

Test Well #2

0'-5' Clay
5'-20' Sand white
20'-38 Sand white
38'-43' Sand + Clay
43'-64' Sand + limestone
64'-105' Sand + limestone
105'-125' Sand Clay + limestone
125'-145' Sand limestone
145'-~~166~~ 166' limestone Clay + sand
166'-268' limestone + sand
268'-289 Clay + Sand
289'-309' Clay + Sand -



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Sample of Water

From Layne Atlantic Co.
Norfolk, Va.

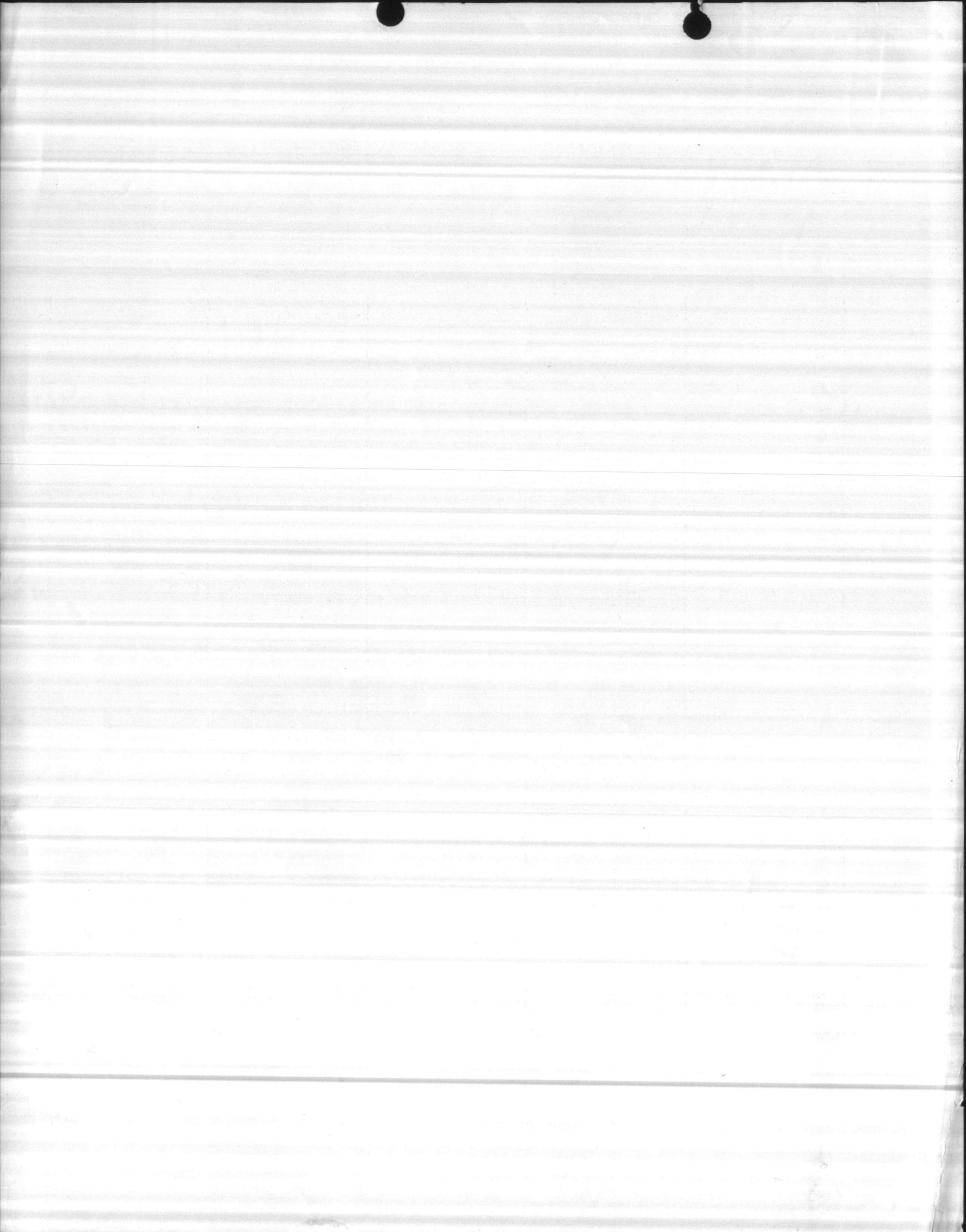
REPORT OF ANALYSIS

	Parts Per Million	
Total Solids by Evaporation	266.0	
Free Carbon Dioxide, CO ₂	None	<i>less</i>
Phenolphthalein Alkalinity as CaCO ₃ . .	16.0	
Methyl Orange Alkalinity as CaCO ₃ . . .	174.0	<i>less</i>
Hardness as CaCO ₃	167.5	<i>less</i>
Sodium Chloride, NaCl	61.6	
Equivalent as Chloride, Cl	37.4	<i>more</i>
Iron, Fe	1.8	<i>more</i>
Nitrates, NO ₃	None	
pH Value	7.6	<i>more</i>

Respectfully Submitted,
Norfolk Testing Laboratories

J. P. Gutting, Jr. Chemist

Reported 8/23/71

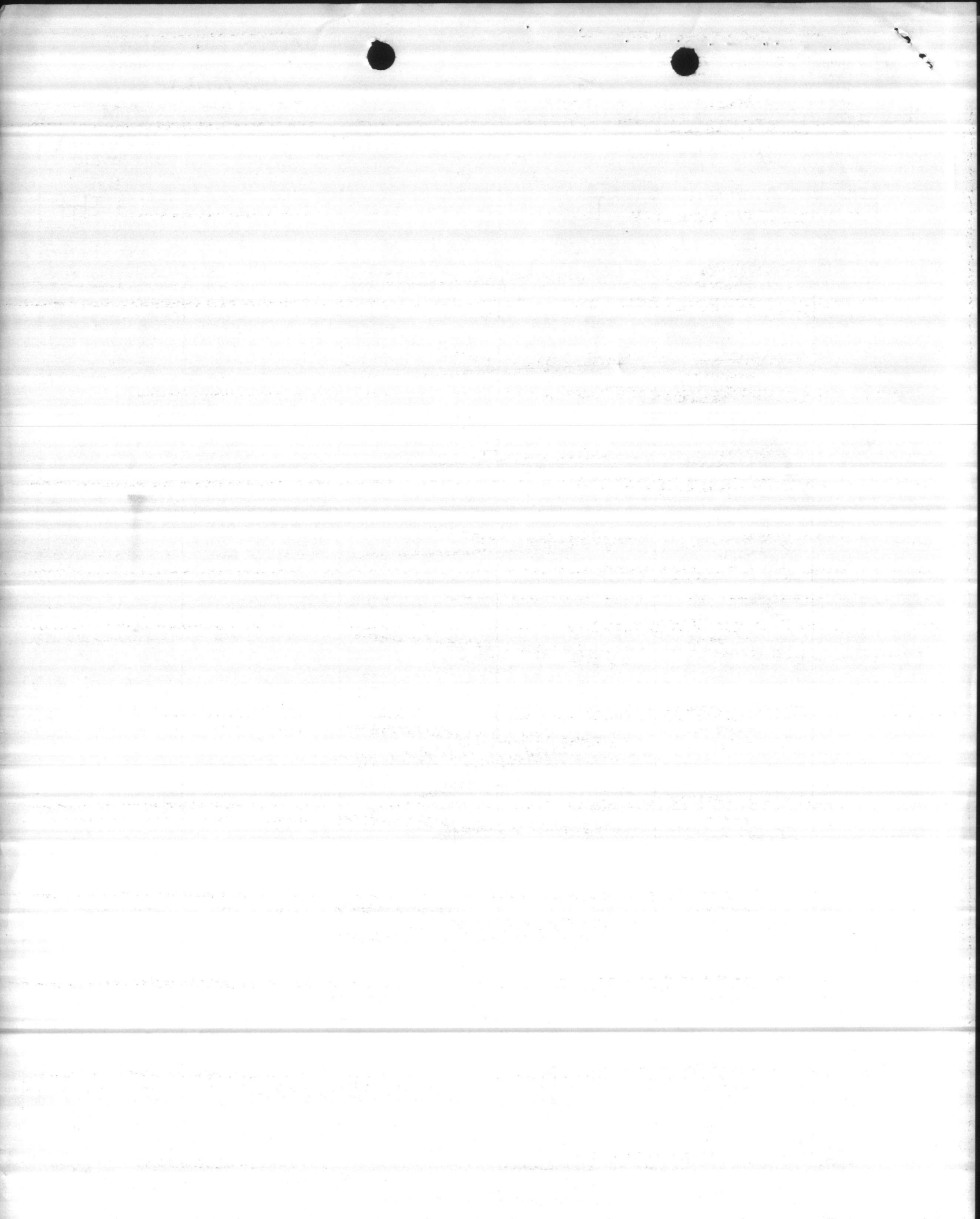


Well # 2

Discharge head per section 11A, par. 11A.3.1	----	94
Pumping level @ 230 gpm	----	90
Total head	----	184

Pump

10" RKLC 4 stage 20 hp



CURVE NO. PB1814

CHANGE EFFICIENCY AS FOLLOWS	NUMBER OF POINTS	PERCENTAGE NUMBER OF STAGES
LOWER	5.0	1
LOWER	3.5	2
LOWER	2.0	3
LOWER	1.0	4

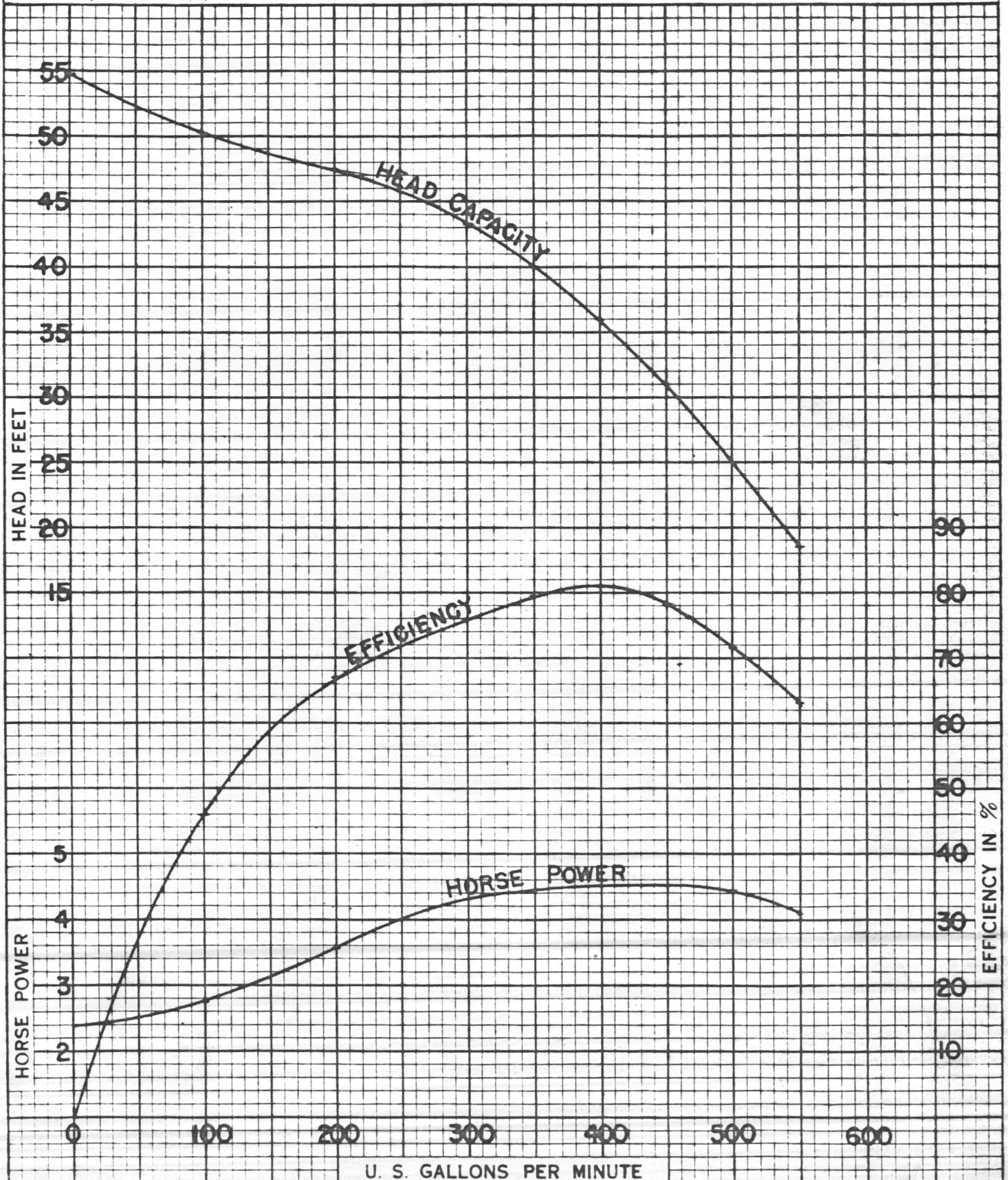


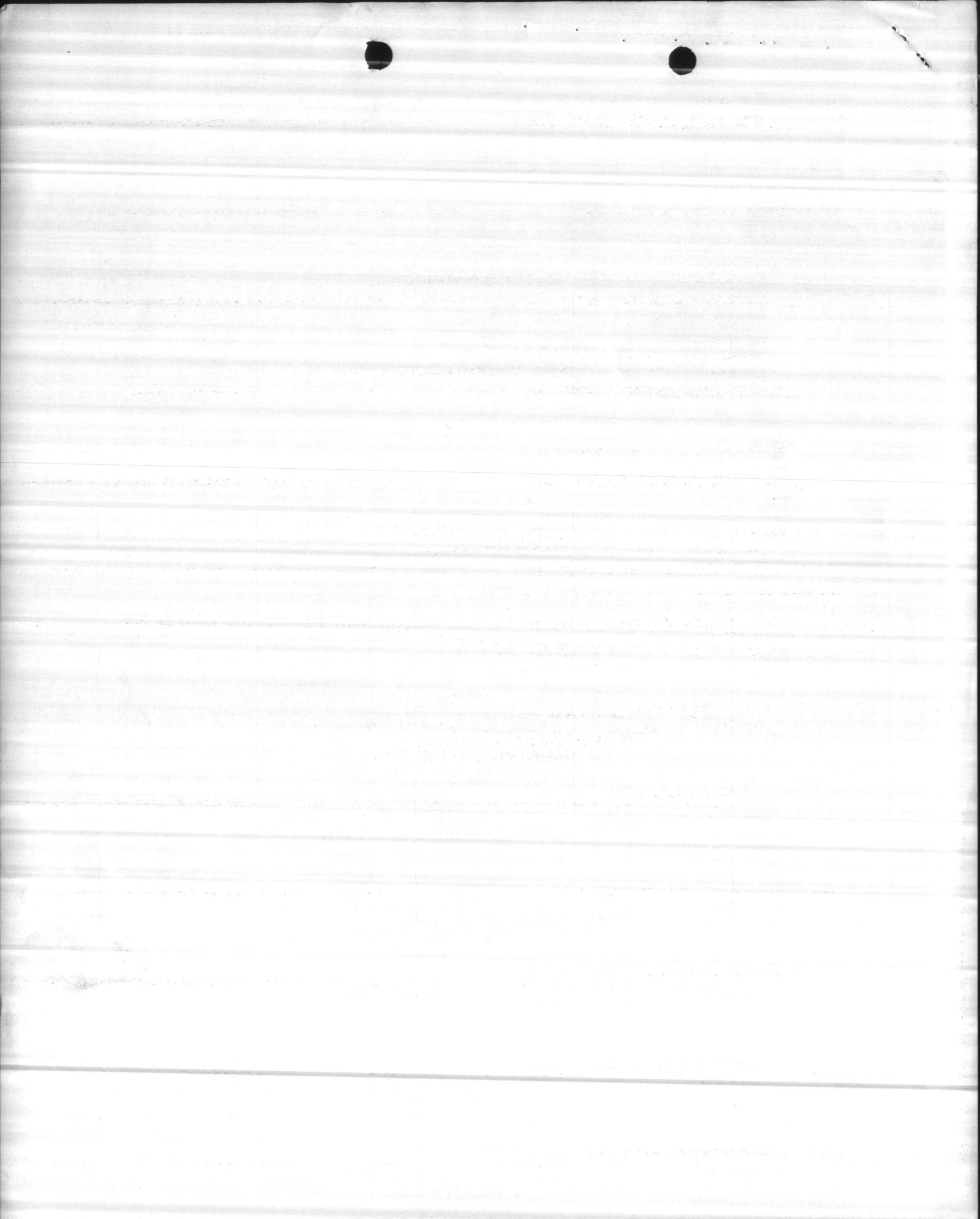
LAYNE & BOWLER, INC.
Memphis, Tenn.

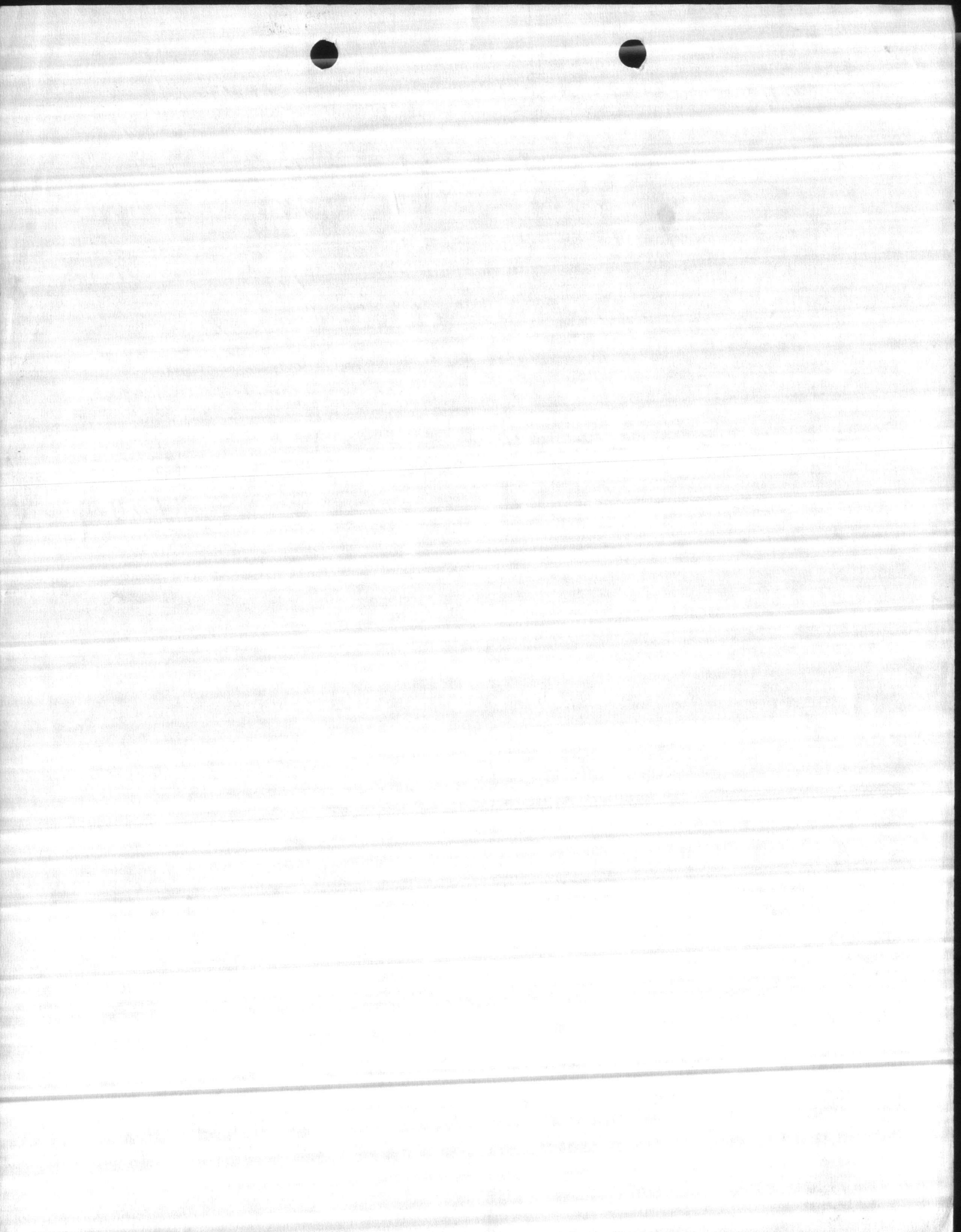
10" RKLC
1750 RPM

SINGLE STAGE LABORATORY
HEAD & HORSE POWER
THRUST "K" = 6.0

NOTE: ANY CHANGE IN EFFICIENCY CHANGES EITHER THE HEAD OR HORSE POWER IN PROPORTION.







U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVENTORY OF HYDROLOGIC DATA STATIONS
QUALITY OF WATER

O.M.B. No. 42-1485
Approval Expires June 30, 1979
This report is authorized by O.M.B. Circular A-67. While organizations other than Federal agencies are not required to respond, their cooperation is needed to make the results of this inventory complete.

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE 34 42 51 N	4. LONGITUDE 77 18 48 W	5.
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6. AGENCY STATION NO. HP-648	7. STATION NAME HP-670-648
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8. DRAINAGE BASIN CODE No. 06 Letter N	9. STATE CODE 32	10. COUNTY CODE 133	11. COUNTY NAME Onslow
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12. PERIOD OF RECORD Began 1972 Discontinued	Y <input type="checkbox"/> Continuous <input type="checkbox"/> Interruption Exceeds 1 Year	13.	14.
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15. SITE

<input type="checkbox"/> 101 Stream	<input type="checkbox"/> 104 Reservoir	<input checked="" type="checkbox"/> 107 Well
<input type="checkbox"/> 102 Canal	<input type="checkbox"/> 105 Estuarine zone	<input type="checkbox"/> 108 Drain
<input type="checkbox"/> 103 Lake	<input type="checkbox"/> 106 Spring	<input type="checkbox"/> 109 Other

16. TYPES OF DATA AVAILABLE AND FREQUENCY OF MEASUREMENT (Enter appropriate number (1-8) beside each parameter to indicate frequency of measurement. For parameters telemetered, enter "T".)

1 Continuous	3 Daily	5 Monthly	7 Annual
2 Seasonal	4 Weekly	6 Quarterly	8 Other Periodic

Physical	Chemical	Biologic
311 Temperature	331 Dissolved solids	361 Coliforms
312 Specific conductance	332 <u>8</u> Chloride	362 Other micro-organisms (Benthic organism, phytoplankton, etc.)
313 Turbidity	333 Nutrients (nitrogen)	363 Other
314 Color	334 Nutrients (phosphorus)	
315 Odor	335 Common ions	Sediment
316 pH (field)	336 <u>8</u> Hardness	371 Concentration (suspended)
317 <u>8</u> pH (lab)	337 Radiochemical	372 Particle size (suspended)
318 Eh	338 Dissolved oxygen	373 Particle size (bed load material)
319 Suspended solids	339 Other gases	374 Other
320 Other	340 Minor elements	
	341 Pesticides (insecticides, herbicides, etc.)	
	342 Detergents - MBS	
	343 Biochemical oxygen demand	
	344 Carbon (total, dissolved, etc.)	

17. SUPPLEMENTARY DATA AVAILABLE FOR STATION

<input type="checkbox"/> 421 Surface water station	<input type="checkbox"/> 423 Water stage or level	<input type="checkbox"/> 425 Time of travel
<input type="checkbox"/> 422 Ground water station	<input checked="" type="checkbox"/> 424 Water discharge	<input type="checkbox"/> 426 Drainage area

18. STORAGE OF DATA

<input type="checkbox"/> 501 Published	<input type="checkbox"/> 503 Data on punchcard	<input type="checkbox"/> 505 Other
<input checked="" type="checkbox"/> 502 Not published	<input type="checkbox"/> 504 Data on magnetic tape, disc, data cell, etc.	

19. INQUIRIES ABOUT DATA SHOULD BE SENT TO:

Office Base Maintenance Department, Utilities Division

Street No. Marine Corps Base

City, State, Zip Camp Lejeune, North Carolina 28542 City Code 0735

20. DATA ARE AVAILABLE TO PUBLIC ON REQUEST Yes No

21. OFFICE COMPLETING FORM
BASE MAINTENANCE DEPARTMENT

22. COMPILER'S NAME
BOB WILSON

23. DATE
12 Month | 19 **76** Year



10/18/01

10/18/01

10/18/01

10/18/01

10/18/01

X

10/18/01

10/18/01

10/18/01

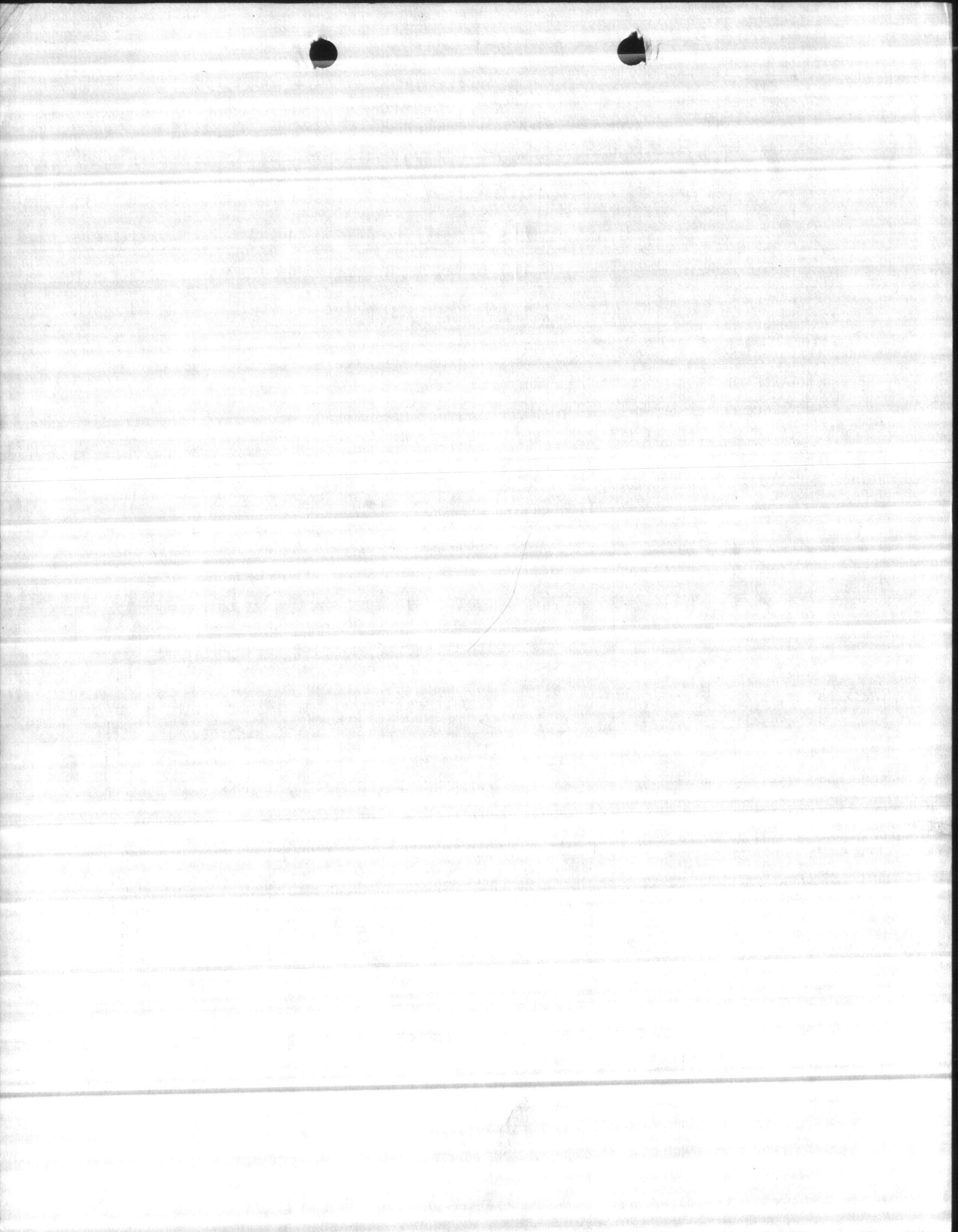
10/18/01

10/18/01

WELL NUMBER 648		BY THOMAS / RAYNOR / HILL			DATE 3-10-83	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
100'	6'	31	25	71	108	0952
		43	37	65	133	1007
		49	43	61	151	1021
		52	46	56	180	1033
		63	57	51	207	1051
		70	64	45	226	1103
		75	69	41	240	1116
		79	73	38	254	1130
		82	76	33	40 $\frac{5}{8}$ in	1140
		87	81	29	5 $\frac{1}{4}$ "	1152

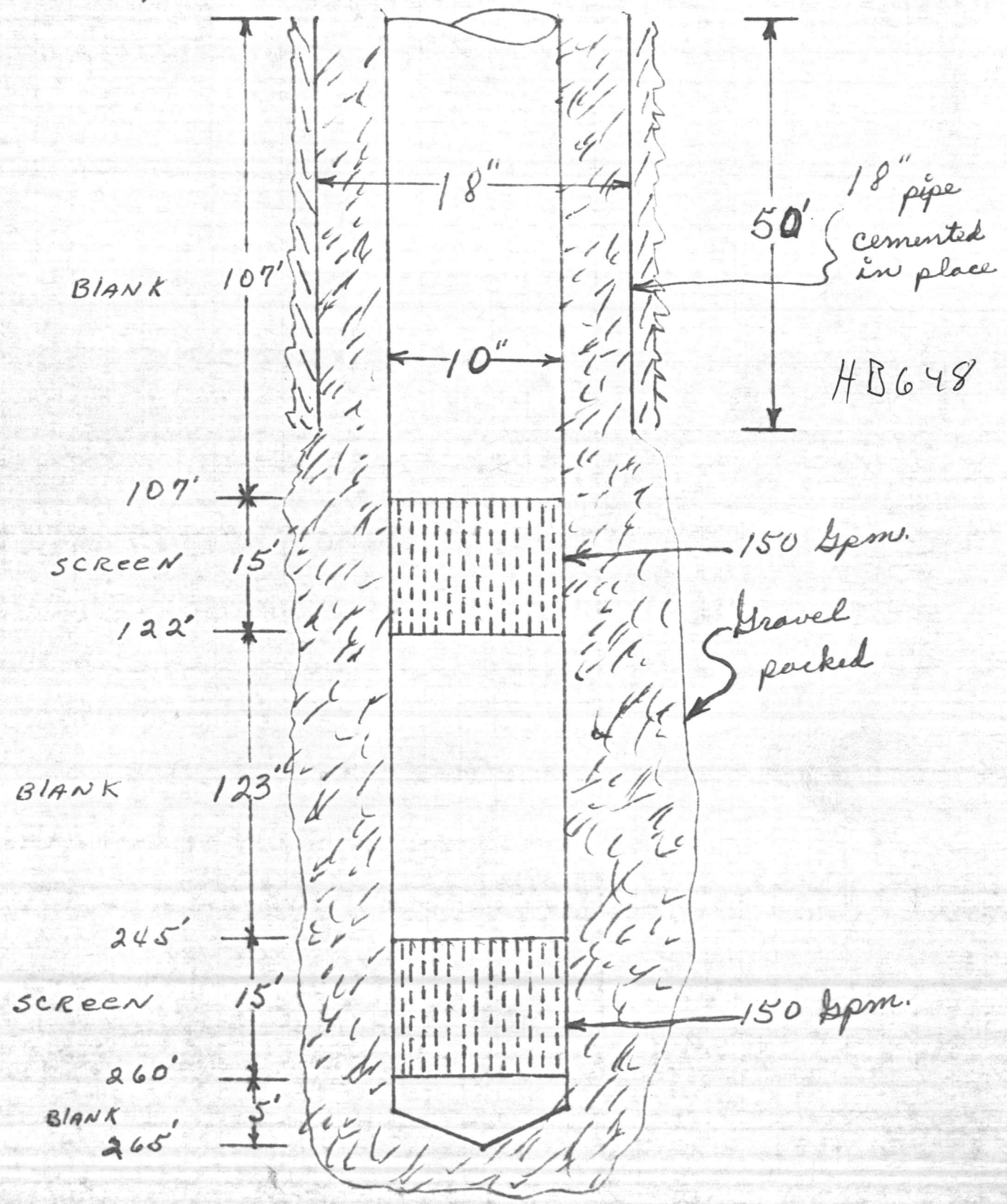
REMARKS used pressure gage - convert. to direct reading
 set at 33 PSI - more than 254 GPM

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
Lynx		Pump # 71042		



Proposed Sketch of Well # 2

Total Depth 265 ft.



82-1111