

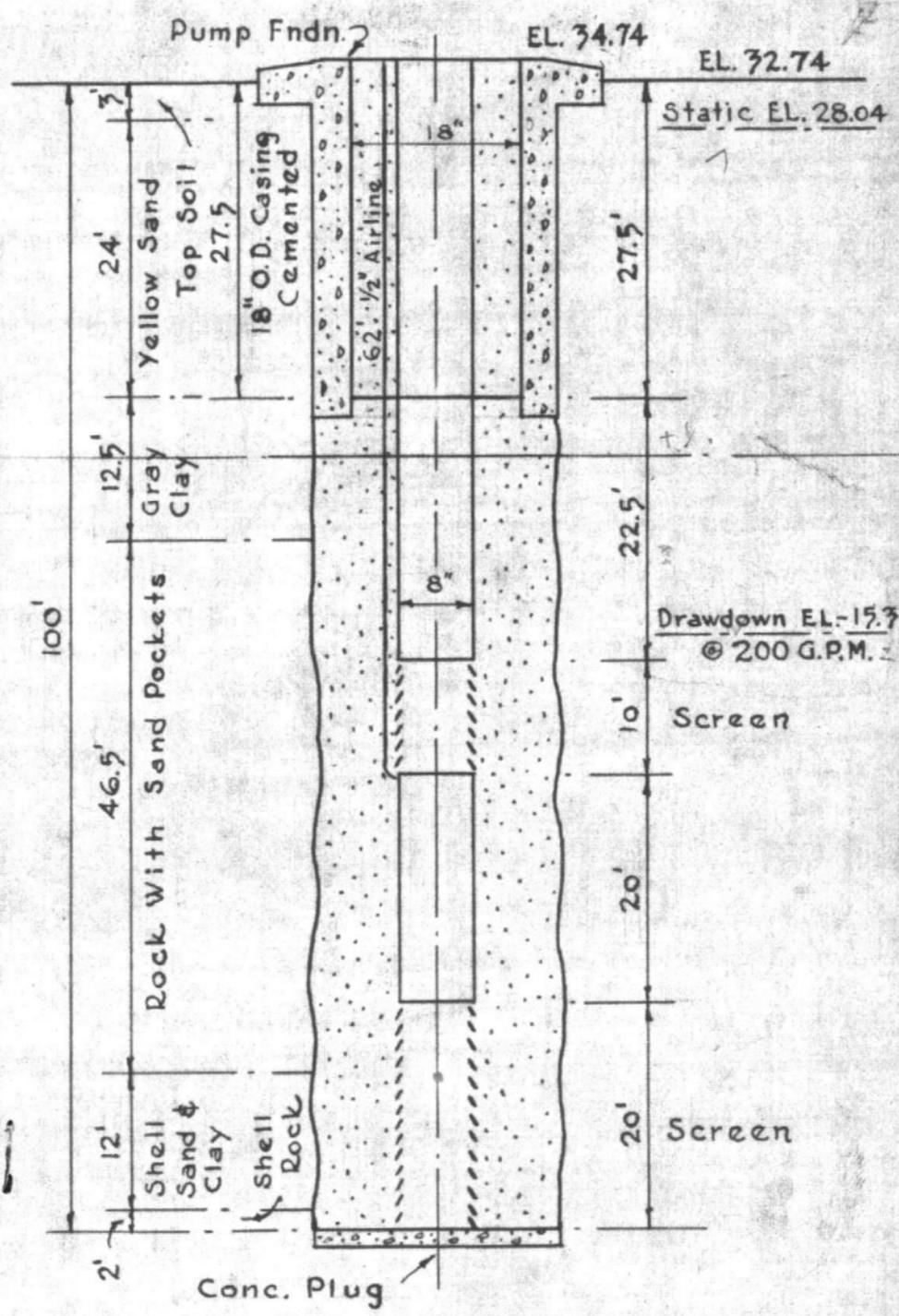
FILE FOLDER

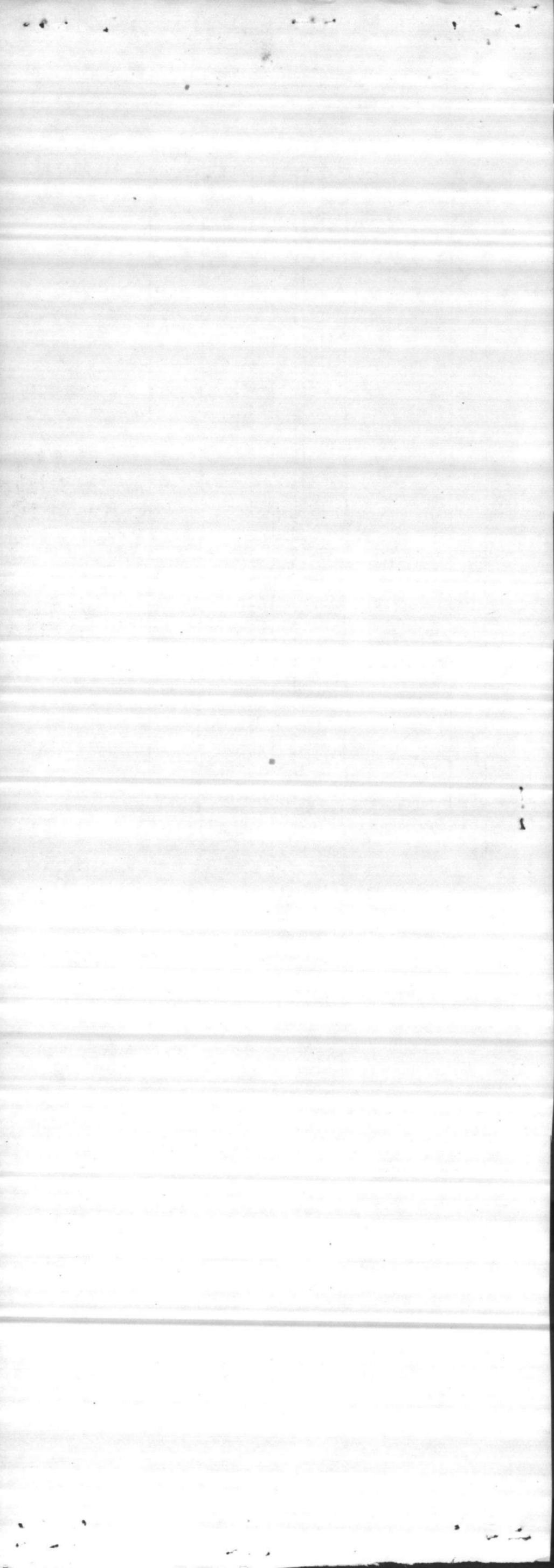
DESCRIPTION ON TAB:

TC 1001 Well M

- Outside/inside of actual folder did not contain hand written information**
- Outside/inside of actual folder did contain hand written information**
***Scanned as next image**

200 G.P.M. DUAL DRIVE - 5 H.P.





DATE 6-19-00
PWSID 0467042

WELL # TC-1001
WELL NAME AS-110 WATER PLANT
BLDG. TC-1001
CODE G
AVAILABILITY A
LOCATION CURTIS ROAD
LATITUDE 3444 27 N
LONGITUDE 077 27 29 W
WELL DIAMETER B
WELL DEPTH 100
SCREEN INTERVAL 10 - 20 IN
YIELD 175
STATIC LEVEL 30'
PUMPING LEVEL 44'
PUMP TYPE VERTICAL TURBINE
MOTOR HP 5
INTAKE DEPTH 60
DESIGN CAPACITY 200
ACTUAL GPM 160
SIZE OF CONCRETE SLAB 8x10
HEIGHT OF CASING 1 FT / 2 IN

1945

1946

1947

1948

1949

1950

1951

1952

1953

1954

1955

1956

1957

1958

1959

1960

1961

1962

1963

1964

1965

1966

1967

SOURCE INFORMATION GROUND WATER

Date Form Completed

M M D D Y Y
 0 1 0 9 9 5

PWSID
 0
4
6
7
0
4
2

Owner Assigned Source Code

Well Name (If purchase, name of system)

001 MEAS WATER PLANT 1001

Code

G

G=Ground
 W=Purchase/G
 Y=G w/direct influence
 Z=W w/direct influence

If Purchase, seller ID#

Source Begin Date

Source exempt—
SWTR? Y N

Direct Influence Date

Availability

P=Permanent
 E=Emergency
 S=Seasonal
 I=Interim
 O=Other

Location of well within the system (If purchase, location of master meter)

CURTIS ROAD

Latitude (N)

Longitude (W)

How Determined

GPS Data

No. of Sats. Locked on

3 4 4 4 2 7

0 7 7 2 7 2 9

0

G=GPS
 M=Map
 S=Surveyed

Q# or DOP #

(If purchase, use seller's primary source lat/long)

Vulnerable (VOCs) Y N

Assessment Date

M M D D Y Y

ENTRY POINT INFORMATION

Use Code

C Ground/Permanent
 D Ground/non-permanent

Availability

P Year-round S Seasonal
 E Emergency I Interim O Other

Owner Assigned Entry Point Code

Entry Point Name

400

IC 100 MEAS NEW RIVER WTP

Location:

Well Site: Owned or controlled? (Y,N) Control Area (100' radius)? (Y,N) If no, explain:

Sources of pollution/distance: STREET @ 60'

Recent fuel leak @ Aux drive motor

Surface water within 200'? (Y,N) If yes, actual distance feet If yes, bact. samples collected? (Y,N)

Adequate slope? (Y,N) Flooding? (Y,N) Maintenance: OK - Needs paint → oil lubed down

Well House: Free of stored materials? (Y,N) Properly drained? (Y,N) Locked? (Y,N)

Condition of house: OK Type of freeze protection: none

Well: Diameter: 8 Type: GRAVEL PACK Yield (gpm): 175 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth 70 ft. (If unknown, put 'UNK') Well depth: 100 Meter available? (Y,N)

Concrete slab adequate? (Y,N) If no, explain: Size: BYIC

Size of blow-off: 2" Sample tap: Before treatment? (Y,N) After treatment? (Y,N)

Pumps: Capacity: GPM: 160 HP: 5 Pump intake depth: 60 Auxiliary Power? (Y,N)

Type pump: VERTICAL TURBINE Height above floor (pump/casing): 1 ft / 2 in

Storage at well site: Elev: Hydro: Ground:

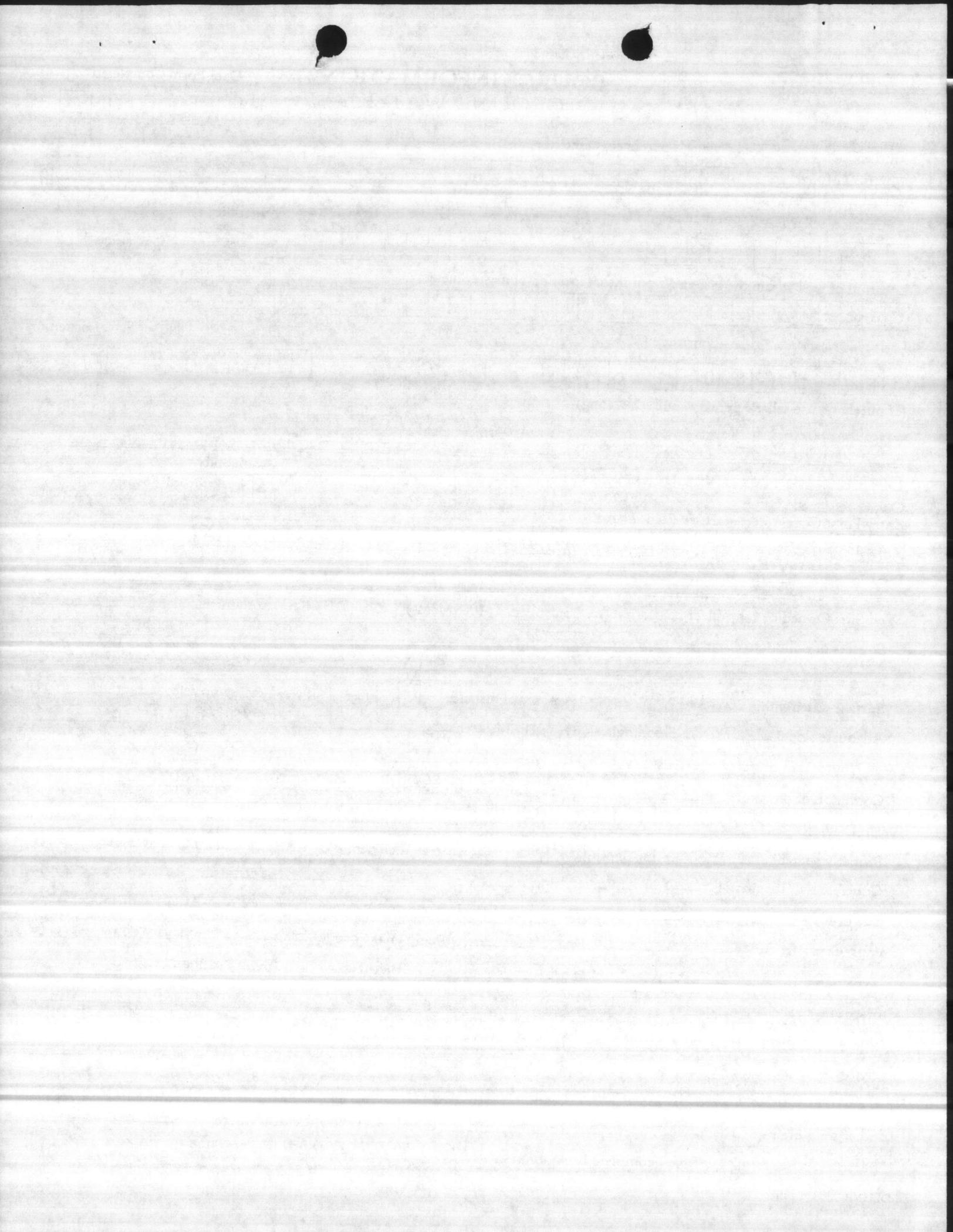
If hydroautomatic, air volume control? (Y,N) Safety valves? (Y,N) Coded? (Y,N)

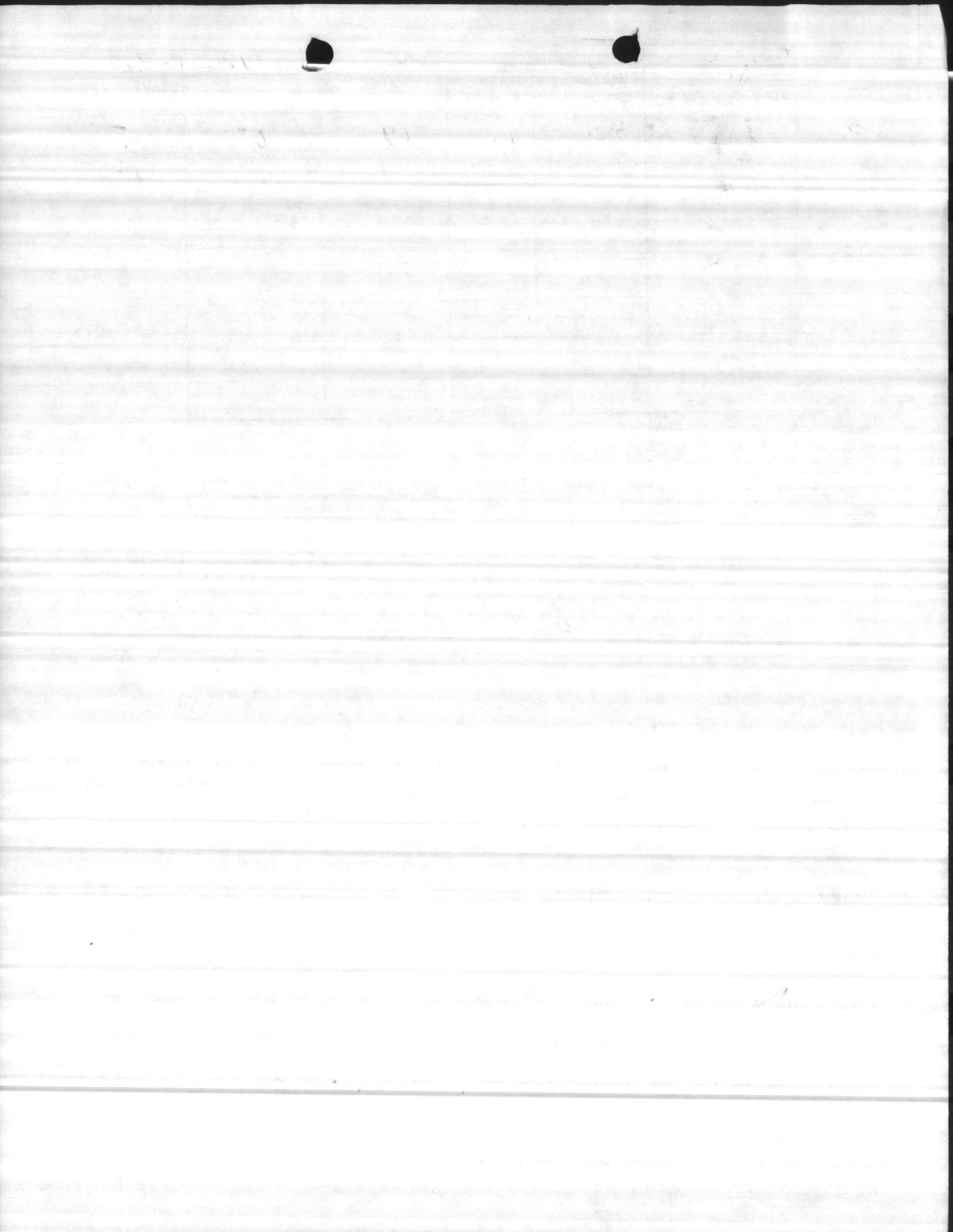
High service pumps: 1. gpm hp 2. gpm hp 3. gpm hp Auxiliary Power? (Y,N)

Is the water treated at this well? (Y,N) If yes, complete back of form.

If other wells are treated here, which ones? If treated elsewhere, where? MEAS/WATER PLANT

If purchase, retreat? (Y,N) If yes, complete back of form.
 1) seal pump base 2) repair vent 3) no meter 4) spill control for aux drive unit





WELL #

PLACE - **Geiger**

DATE - **23 Jan 1957**

ORIGINAL WELL CAPACITY G.P.M. **200**

ORIGINAL WELL		TESTING	
Depth of Well	100	Depth after Cleaning	100
Pump Size		Test Pump Setting	60
Pump Setting	55	Measured Static Water Level	17'
Static Water Level	28.04 ele.	Depth of Air Line	60

Static on gauge 19'

CONDITION OF WELL - **Cleaned out 2' of muck and sand. Much oil.**
Slightly sanded at 175 G.P.M.

STATIC LEVEL ON GAUGE

Inches of water in dizometer tube	G.P.M.	30 Min.	45 Min.	60 Min.	1 Hour
	100	PL	PL	PL	PL
	125	PL	PL	PL	PL
	150	PL	PL	PL	PL
	175	PL	PL	PL	PL (s)
	200	PL	PL	PL	PL (s)
	225	PL	PL	PL	PL (s.s)
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL
		PL	PL	PL	PL

RECOVERY	
10 Sec.	42
20	PL 36
30	PL 30
40	PL 26
50	PL 26
60	PL 26
2 Min.	PL 22
4	PL 22
8	PL 21
16	PL 20
32	PL 20
60	19.5

(s) Sand
(s.s) Heavily sanded

Well # M-TC

Date	Line Ft.	G.P.M.	D.D. El.	Static - El.	Shut off Head	D.D. Ft.
------	-------------	--------	-------------	--------------------	------------------	-------------

ALT - Gage.

10-25-54

32 FT.

Air Line

62 FT.

Marine Barracks
New River, N. C.
April 6, 1942

Wells: Permanent Water Supply, Tent Camp Area
By Layne Atlantic Company
Report on Well No. M

Location: 50' North East of center line of Access Road to Landing Field and 1,280' South East of the intersection of Access Road to Landing Field, and Highway 17, as shown on M.B. Drawing No. T.C. 223.

Date Drilled: January, 1942

Drilling Equipment: Rotary rig, bits, and other equipment.

Status: Ground elevation 32.74

A 23" hole was reamed to a depth of 28'. 27'6" of I.D. steel casing was set and the annular space around this was filled with cement grout. A 17 1/2" hole was drilled to a depth of 104 feet.

Log of Formation:	0 to 3'	Top soil
	3' to 27'	Yellow sand
	27' to 39'6"	Grey clay
	39'6" to 86'	Coquina rock with sand pockets, hard and soft layers
	86' to 98'	Rock, sand and clay mixed
	98' to 102'	Coquina rock, very little sand
	102' to 104'	Blue clay

Due to the presence of sand in the rock, it was necessary to construct a gravel wall well.

Gravel Wall Construction: 70 feet of 8" steel pipe and 30 feet of 8" silicon bronze shutter screen was lowered into the hole and the annular space was filled with a special 1/4" cap may gravel.

Log of Screen Setting:	0 to 50'	8" blank pipe
	50' to 60'	8" bronze screen
	60' to 80'	8" blank pipe
	80' to 100'	8" bronze screen

The pipe was of threaded and the screen was welded. The bottom of the screen was closed with a cement plug.

London Bridge
New River, N.Y.
April 6, 1901

100' to 101' Blue clay
 99' to 100' Laminated rock, very little sand
 98' to 99' Sand and clay with
 97' to 98' Laminated rock with shell, pebbles, sand and
 96' to 97' Grey clay
 95' to 96' Yellow sand
 94' to 95' Top soil

The blue clay was obtained and the screen was washed. The
 bottom of the river was loaded with a coarse blue.
 The blue clay was obtained and the screen was washed. The
 bottom of the river was loaded with a coarse blue.

100' to 101' Blue clay
 99' to 100' Laminated rock, very little sand
 98' to 99' Sand and clay with
 97' to 98' Laminated rock with shell, pebbles, sand and
 96' to 97' Grey clay
 95' to 96' Yellow sand
 94' to 95' Top soil

Sheet 2

Static Level: 4' 8" below surface

Pumping: Well pumps 155 gallons per minute with a 35'6" drawdown from static level, and 245 gallons per minute with a 55'6" drawdown from static level.

Report will be made later of pump installations.

See separate report for chemical analysis.

N. H. Kellam
Asst. Chem. Engineer

Section level: 10' below surface

Well shows 125 gallons per minute with a 1200' head
from static level, and 200 gallons per minute with a
10' head from static level.

and will be used for water supply.

The water is good for drinking.

W. H. Keller
District Engineer

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

APPROVED.
Budget Bureau No. 42-R1485
Approval Expires June 30, 1968

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE ° 34 ' 43 " 40 N	4. LONGITUDE ° 77 ' 28 " 10 W	5.
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6. AGENCY STATION NO. TC1001	7. STATION NAME TC508-M
--	-----------------------------------

8. DRAINAGE BASIN CODE No. 6 Letter N	9. STATE CODE 32	10. COUNTY CODE 133	11. COUNTY NAME ONslow
--	----------------------------	-------------------------------	----------------------------------

12. PERIOD OF RECORD Began 1941 Discontinued	Y <input type="checkbox"/> Continuous <input type="checkbox"/> Interruption Exceeds 1 Year	13.	14.
--	---	-----	-----

15. SITE	<input type="checkbox"/> 101 Stream	<input type="checkbox"/> 102 Canal	<input type="checkbox"/> 103 Lake	<input type="checkbox"/> 104 Reservoir	<input type="checkbox"/> 105 Estuary	<input type="checkbox"/> 106 Spring	<input checked="" type="checkbox"/> 107 Well	<input type="checkbox"/> 110 Other
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16. FREQUENCY OF MEASUREMENT	<input type="checkbox"/> 201 Continuous Recorder	<input type="checkbox"/> 202 Telemetered	<input type="checkbox"/> 203 Daily	<input type="checkbox"/> 204 Weekly	<input type="checkbox"/> 205 Monthly	<input type="checkbox"/> 206 Quarterly	<input type="checkbox"/> 207 Seasonal	<input type="checkbox"/> 208 Annual	<input type="checkbox"/> 209 Other Periodic	<input checked="" type="checkbox"/> 210 Occasional
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17. TYPES OF DATA AVAILABLE	<i>Physical</i>	<i>Chemical</i>	<i>Organic</i>
<input type="checkbox"/> 311 Temperature	<input type="checkbox"/> 312 Specific Conductance	<input type="checkbox"/> 313 Turbidity	<input type="checkbox"/> 314 Color
<input type="checkbox"/> 315 Odor	<input type="checkbox"/> 316 Radioactivity	<input checked="" type="checkbox"/> 318 pH (lab)	<input type="checkbox"/> 319 Eh
<input type="checkbox"/> 320 Other	<input type="checkbox"/> 331 Dissolved solids	<input checked="" type="checkbox"/> 332 Chlorides Only	<input type="checkbox"/> 333 Nutrients (Nitrogen and phosphorus compounds)
	<input type="checkbox"/> 334 Common ions	<input checked="" type="checkbox"/> 335 Hardness	<input type="checkbox"/> 336 Radiochemical
	<input type="checkbox"/> 337 Dissolved oxygen	<input type="checkbox"/> 338 Other Gases	<input type="checkbox"/> 339 Other
			<input type="checkbox"/> 351 Pesticides (insecticides, herbicides, etc.)
			<input type="checkbox"/> 352 Synthetic detergents
			<input type="checkbox"/> 353 Other
			<i>Biologic</i>
			<input type="checkbox"/> 361 Coliforms
			<input type="checkbox"/> 362 Other Micro-organisms
			<input type="checkbox"/> 363 BOD
			<input type="checkbox"/> 364 Other
			<i>Sediment</i>
			<input type="checkbox"/> 371 Concentration
			<input type="checkbox"/> 372 Particle size
			<input type="checkbox"/> 373 Other

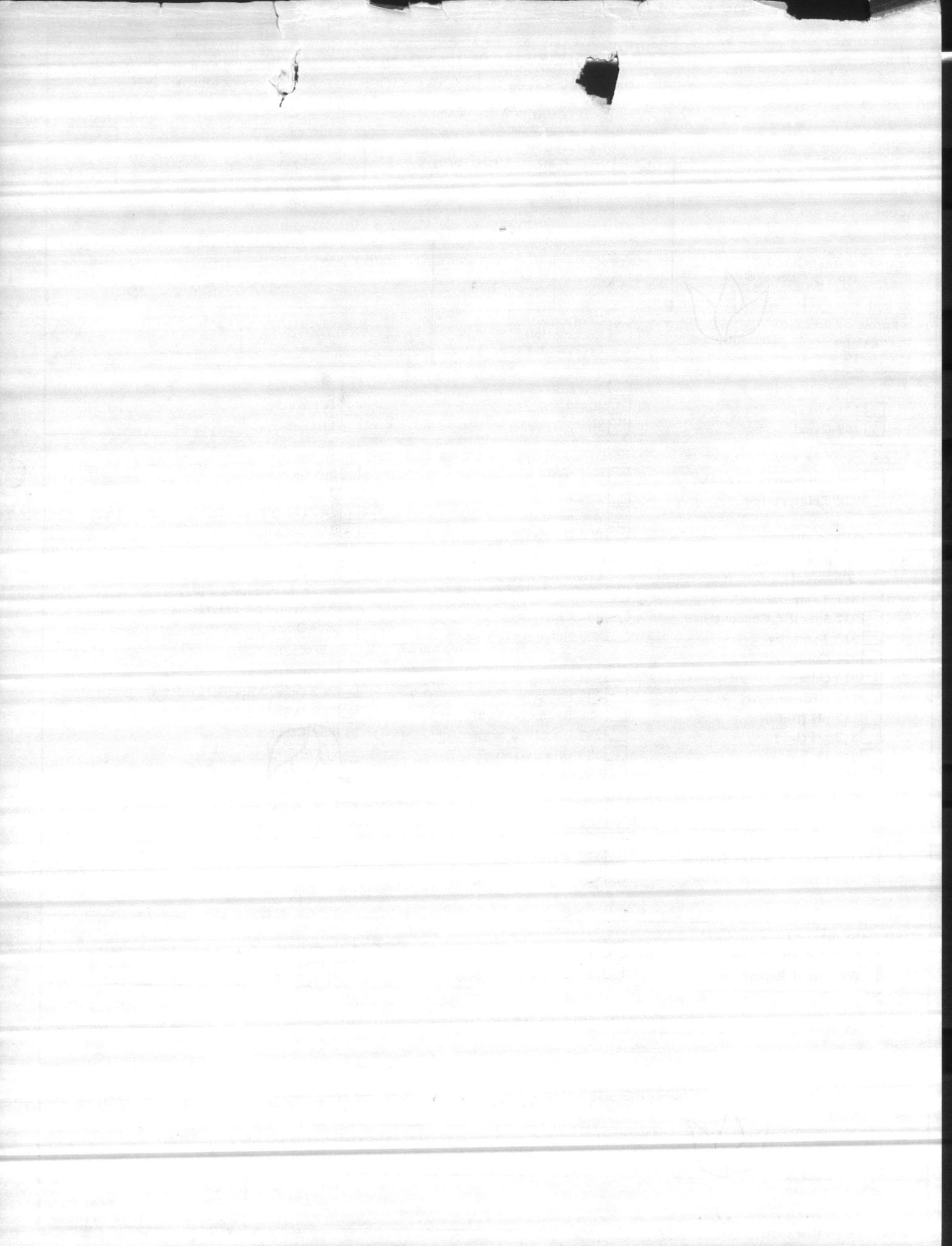
18. SUPPLEMENTARY DATA FOR SITE	<input type="checkbox"/> 421 Surface Water Station	<input type="checkbox"/> 422 Ground Water Station	<input type="checkbox"/> 423 Water Stage or Level	<input checked="" type="checkbox"/> 424 Water discharge	<input type="checkbox"/> 425 Time of Travel	<input type="checkbox"/> 426 Drainage Area
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19. STORAGE OF DATA	<input type="checkbox"/> 501 Periodic Report	<input type="checkbox"/> 502 Areal Report	<input checked="" type="checkbox"/> 503 Not Published	<input type="checkbox"/> 504 Data on Punchcard	<input type="checkbox"/> 505 Data on Magnetic Tape	<input type="checkbox"/> 506 Other
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20. OFFICE AT WHICH DATA AVAILABLE	Office <u>BASE MAINTENANCE DEPARTMENT</u>
Street No. <u>MARINE CORPS BASE</u>	City Code <u>0735</u>
City, State, Zip <u>CAMP LEJEUNE, N. C. 28542</u>	

21. OFFICE COMPLETING FORM	<u>BASE MAINTENANCE DEPARTMENT</u>
----------------------------	------------------------------------

22. COMPILER'S NAME	<u>F. E. TEW, JR.</u>
23. DATE	Month <u>09</u> Year <u>19 66</u>



WATER ANALYSIS

By N. H. Kellam

Date 1-17-42

Sample from Well site M T.C.R.

Total Solids	_____	PPM	Volatile Soilds	_____	PPM
Suspended Solids	_____	"	Disolved Soilds	_____	"
Phenophtalein Alkalinity	<u>0</u>	"	Silica	_____	"
Total Alkalinity	<u>260</u>	"	Ferrous Iron	_____	"
Chlorides	<u>18</u>	"	Total Iron	_____	"
Sulphates	_____	"	Aluminum	_____	"
Carbonates	<u>0</u>	"	Calcium	_____	"
Bicarbonates	<u>260</u>	"	Magnesium	_____	"
<u>CO₂</u>	<u>15</u>	"	Sodium	_____	"
pH	<u>7.1</u>		Soap Hardness as CaCO ₃	<u>250</u>	"
			Mineral Hardness as CaCO ₃	_____	"
Odor	<u>slight</u>				
Turbidity	<u>20</u>				

REMARKS _____

1914

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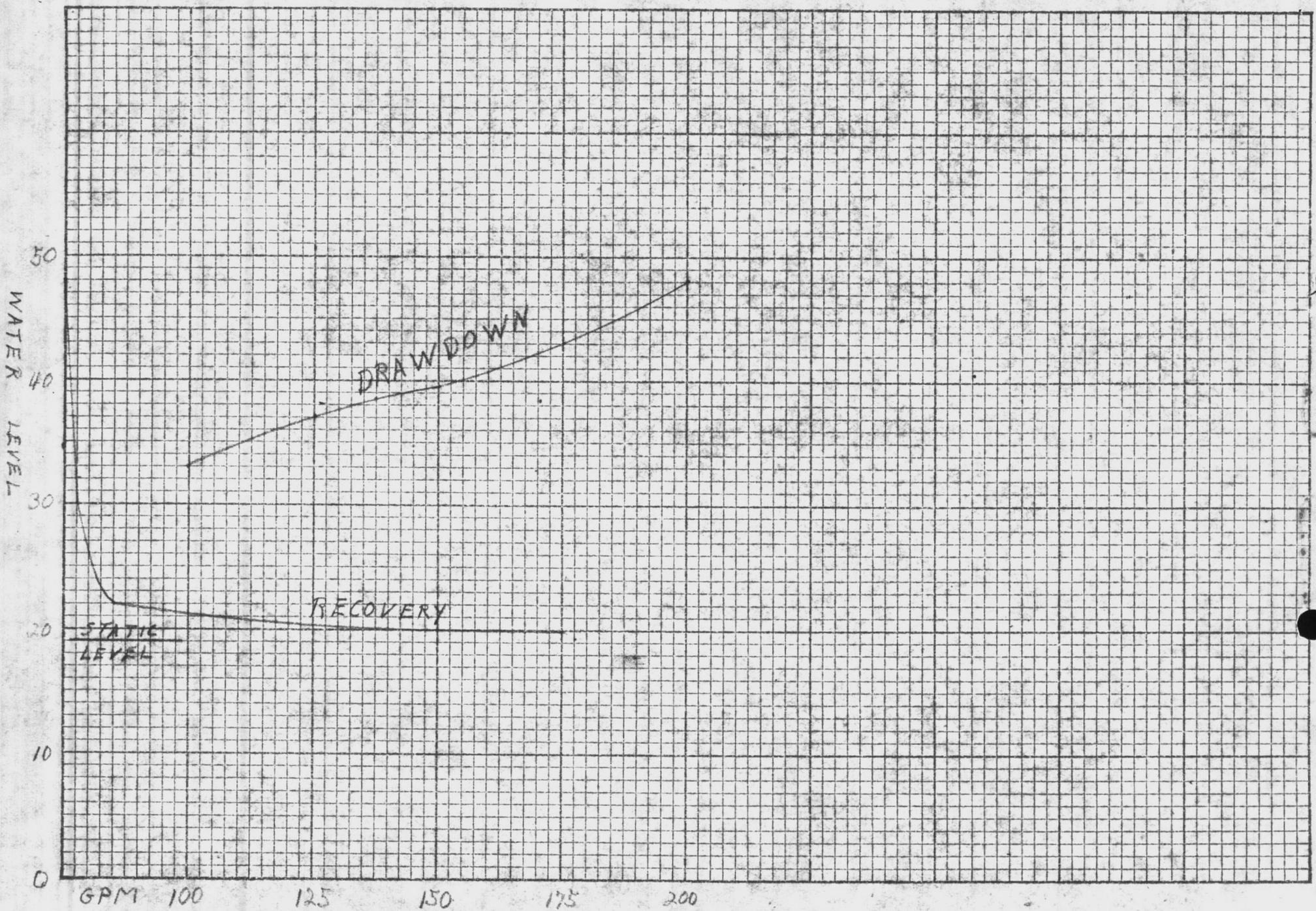
2096

2097

2098

2099

2100



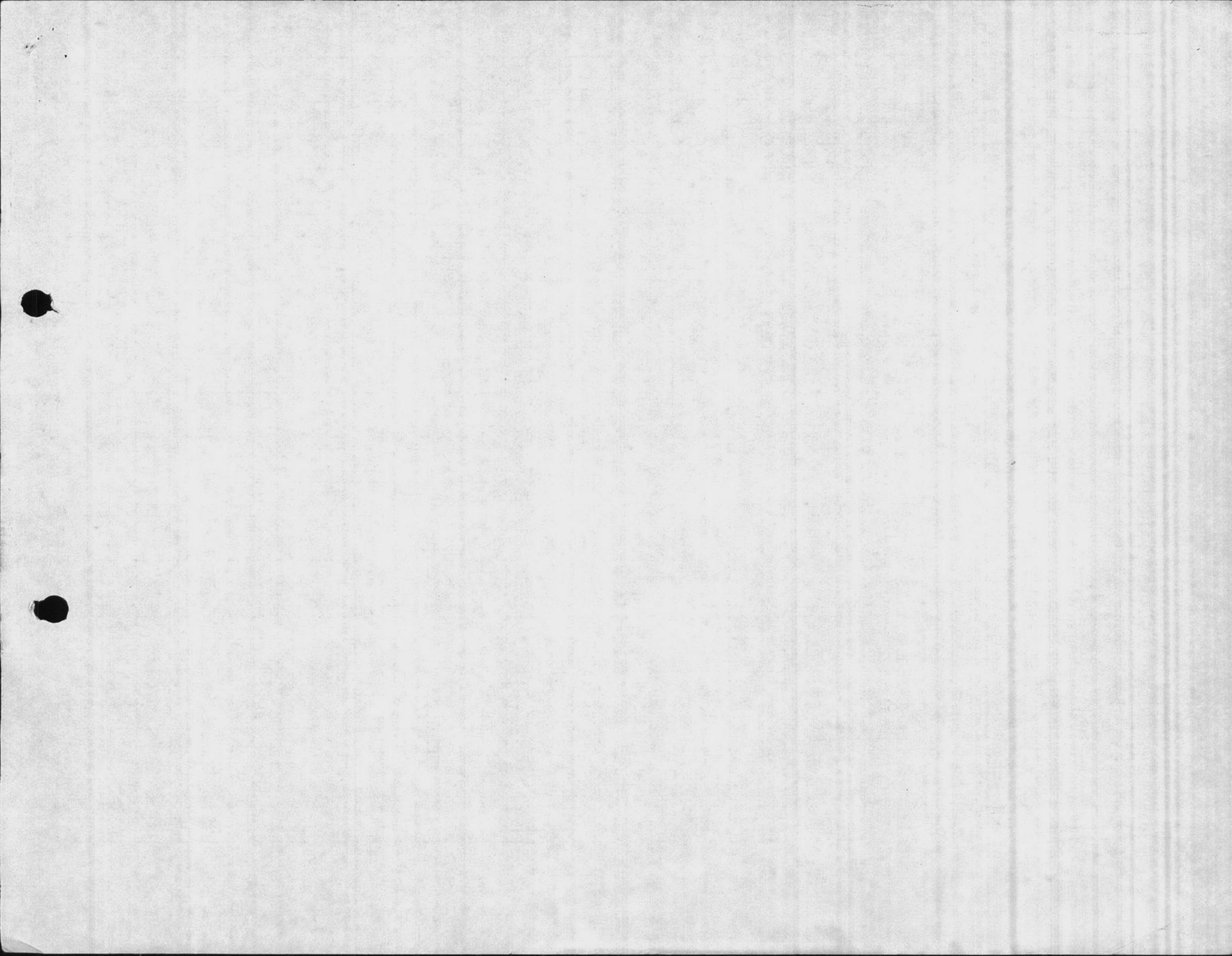
GPM 100 125 150 175 200 30 35 40 50 60
 0 MINUTES 5 10 15 20 25 30 35 40 50 60

CAMP LEJEUNE
 SPEC #.3886

WELL M
 CAMP GEIGER

DATA SHEETS

CHARLES BRUNING COMPANY, INC.
 NO. 700-10
 10 x 10 to the inch.
 PRINTED IN U. S. A.



WATER ANALYSIS

By N. H. Peilam

Date 1-24-42

Sample from Well M T.C.O.

100 ft Deep

15 hrs Pumping

Total Solids	_____	PPM	Volatile Solids	_____	PPM
Suspended Solids	_____	"	Dissolved Solids	_____	"
Phenolphthalein Alkalinity	<u>0</u>	"	Silica	_____	"
Total Alkalinity	<u>230</u>	"	Ferrous Iron	_____	"
Chlorides	<u>15</u>	"	Total Iron	_____	"
Sulphates	<u>4</u>	"	Aluminum	_____	"
Carbonates	<u>0</u>	"	Calcium	_____	"
Bicarbonates	<u>230</u>	"	Magnesium	_____	"
<u>CO₂</u>	<u>10</u>	"	Sodium	_____	"
pH	<u>7.1</u>		Soap Hardness as CaCO ₃	_____	"
			Mineral Hardness as CaCO ₃	_____	"

Odor Slight

Turbidity 10

REMARKS _____

1941

Sum. from

Total Sales	117	Vol. Sales	117
Subtotal Sales	"	Revised Sales	"
Expenses	"	Expenses	"
Total Expenses	"	Expenses from	"
Net Income	"	Net Income	"
Depreciation	"	Depreciation	"
Depreciation	"	Depreciation	"
Depreciation	"	Depreciation	"
Depreciation	"	Depreciation	"

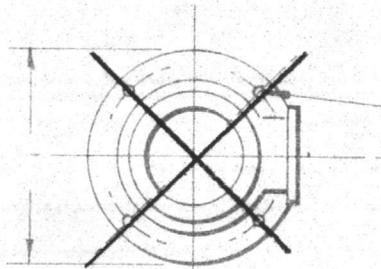
from previous year

1940

1941

1942

JOHNSTON VERTICAL TURBINE PUMP

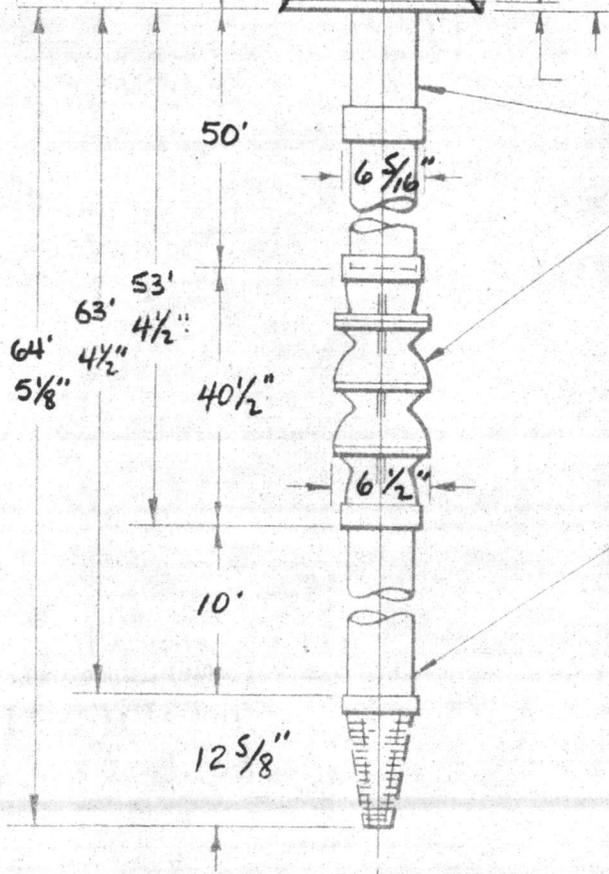


4- DIA. HOLES

Furnished By Others
 VERTICAL HOLLOW SHAFT MOTOR

HP	PHASE	CYCLE
	VOLT	RPM
ENCLOSURE		

Furnished By Others
 TYPE "A" DISCHARGE HEAD
 " X 125# FLANGE



5" x 2" x 1 3/16" **GW I**
 COLUMN ASSEMBLY

5 STAGE **7BC** BOWL ASSEMBLY

CONDITIONS:
175 USGPM
65 FT. TOTAL HEAD
 LIQUID **WATER**
 SPEC. GRAV **1.00** °F PUMPING TEMP.

5" SUCTION PIPE **5"** CONE STRAINER

CUSTOMER _____
 PC# _____
 DEALER **HEATER WELL Co.**
 PO# _____
 JOHNSTON SERIAL # _____
 JOHNSTON QUOTATION # _____

NOTE: DO NOT USE FOR CONSTRUCTION
 UNLESS CERTIFIED

Pump # M

PUBLIC WORKS DEPARTMENT
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

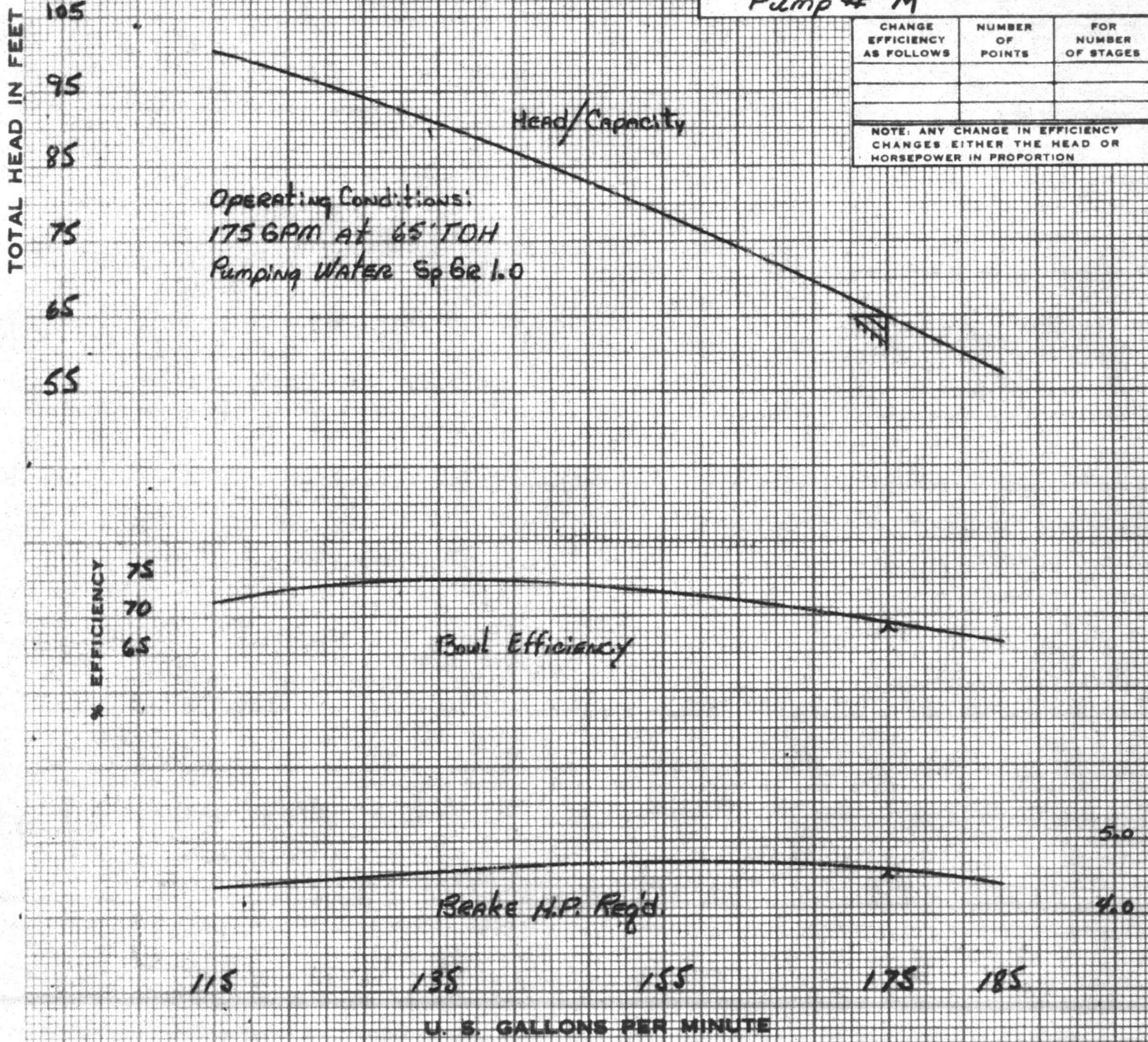
CONTRACT NO. 3886 SPEC. NO. 3886/56
TITLE Repairs to Well Pump Camp J.
DATE: 8 May 1957 W. J. Evans, Jr.
BY DIRECTION OF OFFICER
IN CHARGE OF CONSTRUCTION JS

HYDRAULIC PERFORMANCE IS CONTINGENT ON WELL FINISHING PUMP WITH CLEAR, FRESH NON-AERATED OR NON-GASEOUS WATER FREE FROM DETRITUS WITH NO SUCTION LIFT AND TEMPERATURE NOT TO EXCEED 88 DEGREES FAHRENHEIT

NOTE: ALL COLUMN LOSSES ARE INCLUDED

CUSTOMER: _____
 P.O.# _____
 DEALER: Heater Well Co.
 P.O.# _____
 JOHNSTON SERIAL: _____
 Pump # M

CHANGE EFFICIENCY AS FOLLOWS	NUMBER OF POINTS	FOR NUMBER OF STAGES
NOTE: ANY CHANGE IN EFFICIENCY CHANGES EITHER THE HEAD OR HORSEPOWER IN PROPORTION		



IMPELLER BEZ.
Full DIA.
 DATE: 4-11-57 BY: JDM

JOHNSTON PUMP CO.

VERTICAL PUMPS
 PASADENA • CALIFORNIA • USA

PERFORMANCE 5 STAGE
7BC DEEP WELL TURBINE PUMP
1800 R. P. M.
 CURVE SHEET No. _____

HORSE POWER

PUBLIC WORKS DEPARTMENT
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NO. 3886 SPEC. NO. 3886/56

TITLE: Repairs to Well Pumps Camp Lejeune

DATE: 8 May 1957 W. J. Evans, Jr.

BY DIRECTION OF OFFICER
IN CHARGE OF CONSTRUCTION

WATER ANALYSIS

By _____

Date May 14-43

Sample from Well m

Total Solids _____ PPM Dissolved Solids _____ PPM

Suspended Solids _____ PPM Volatile Solids _____ PPM

Phenol. Alk. as CaCO₃ 0 PPM Silica as SiO₂ _____ PPM

Total Alk. " " 218 " Ferrous Iron as Fe _____ "

Carbonates " " _____ " Total Iron as Fe 2.0 "

Bicarbonates " " _____ " Aluminum as Al. _____ "

Chlorides as Cl. 10 " Calcium as Ca. 76 "

Sulphates as SO₄ _____ " Magnesium as Mg. _____ "

Nitrites as NO₂ _____ " Sodium as Na. _____ "

Carbon Dioxide as CO₂ _____ "

pH 7.1 Soap Hardness as CaCO₃ 192 PPM

Odor _____ Turbidity 15

REMARKS _____

WATER ANALYSIS

BY

DATE

Sample from

Total Solids _____ PPM Dissolved Solids _____ PPM

Suspended Solids _____ PPM Volatile Solids _____ PPM

Hardness, Alk. as CaCO₃ _____ PPM Solids as Silica _____ PPM

Total Alk. _____ " " " " " " " "

Calcium as Ca _____ " " " " " " " "

Magnesium as Mg _____ " " " " " " " "

Chlorides as Cl _____ " " " " " " " "

Sulfates as SO₄ _____ " " " " " " " "

Nitrates as NO₃ _____ " " " " " " " "

Carbon Dioxide as CO₂ _____ " " " " " " " "

Total Hardness as CaCO₃ _____ PPM

Color _____
