

DATE 6-19-00 ✓

PWSID 04-67-043

WELL # 708 ✓

WELL NAME Holcomb Blvd. 708

BLDG. 708 ✓

CODE G

AVAILABILITY P

LOCATION Hwy 24 EAST

LATITUDE 34.70798 ✓

LONGITUDE -77.28814 ✓

WELL DIAMETER 10"

WELL DEPTH 176 ~~677~~

SCREEN INTERVAL 125'-135' ✓

165'-185'

YIELD 157 gpm

STATIC LEVEL 11'

PUMPING LEVEL 44'

PUMP TYPE Vertical Turbine

MOTOR HP 10

INTAKE DEPTH 86'

DESIGN CAPACITY 265 GPM ✓

ACTUAL GPM 157 GPM

SIZE OF CONCRETE SLAB 30" X 29 1/2"

HEIGHT OF CASING 19"

4-11-20
21-07-043

708
Molokini Blvd. 708

708

G

Box 24 East

8888-44

1088-2881

10"

112 0741

122-122

122-122

122 0741

11"

11"

Vertical distance

10"

8"

122 0741

122 0741

122 0741

10"

SOURCE INFORMATION GROUND WATER

Date Form Completed

M M D D Y Y
0 1 2 2 9 5

PWSID
0
4
6
7
0
4
3

Owner Assigned
source Code

Well Name (If purchase, name of system)

702 H01C0mb-B1Vd 708

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

P

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

Hwy 24 EAST

Latitude (N)

Longitude (W)

How Determined

GPS Data

No. of Sats. Locked on

3 4 4 2 2 9 8

0 7 7 1 7 1 7 6

G
G=GPS
M=Map
S=Surveyed

3 Q# or DOP #

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

Vulnerable (VOCs) Y N

Assessment Date

ENTRY POINT INFORMATION

Use Code

C=Ground/Permanent
D=Ground/non-permanent

Availability

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

Owner Assigned
Entry Point Code

Entry Point Name

200 H8708MCA H01C0mb-B1Vd 24EASTP

Location:

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

Sources of pollution/distance:

100' to Hwy

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

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

Condition of house: OK Type of freeze protection: Electric heat

Well: Diameter: 10" Type: Drain Packed Yield (gpm): 157 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth 176' ft. (If unknown, put 'UNK') Well depth: 176' Meter available? (Y,N)

Concrete slab adequate? (Y,N) If no, explain: 50 Size: 12x12

Size of blow-off: 4" Sample tap: Before treatment? (Y,N) After treatment? (Y,N)

Pumps: Capacity: GPM: 260 HP: 10 Pump intake depth: 86 Auxiliary Power? (Y,N)

Type pump: Vertical Turbine Height above floor (pump/casing): 19"

Storage at well site: Elev: Hydro: Ground:

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

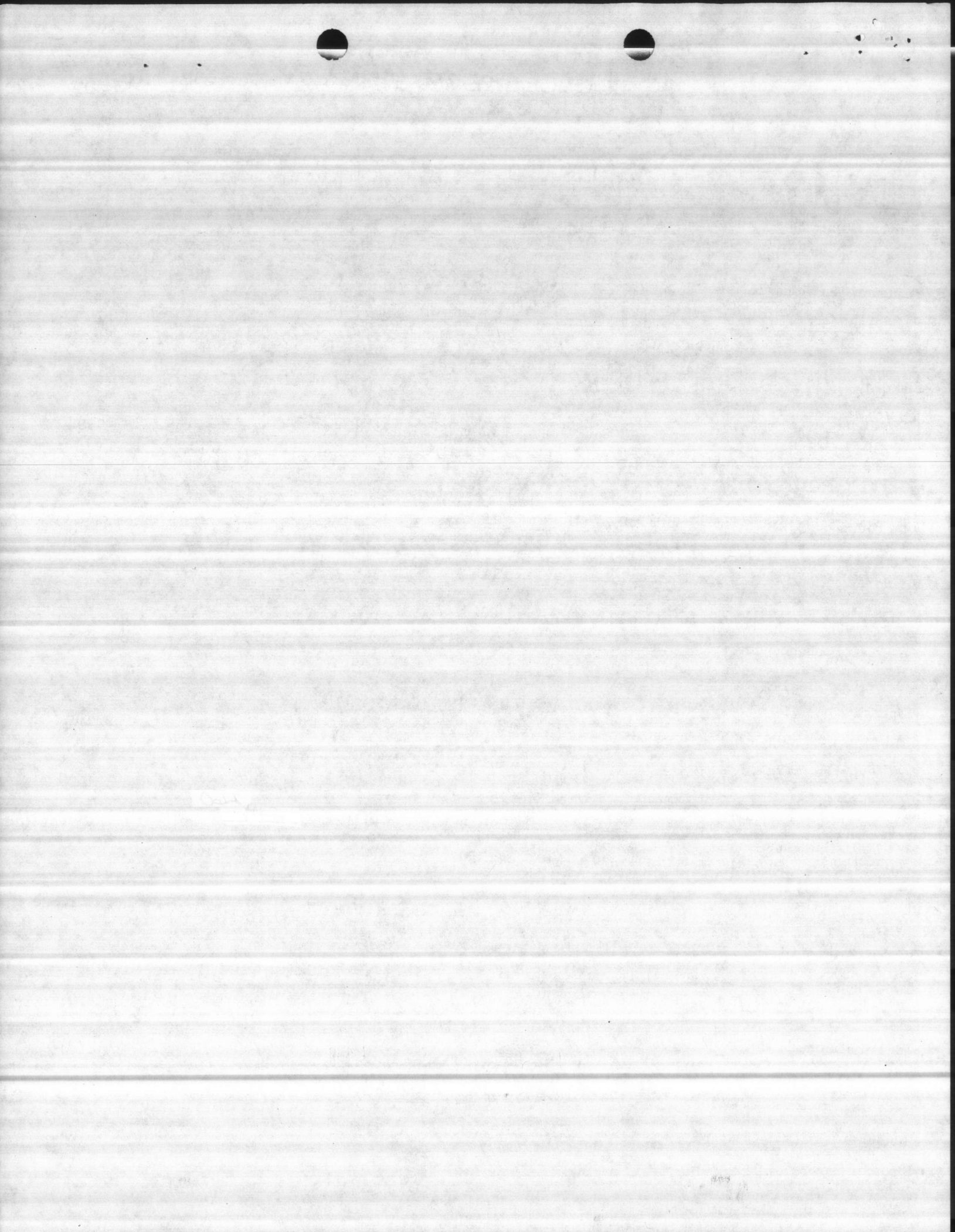
High service pumps: 1. gpm hp 2. gpm hp 3. gpm hp Auxiliary Power? (Y,N)

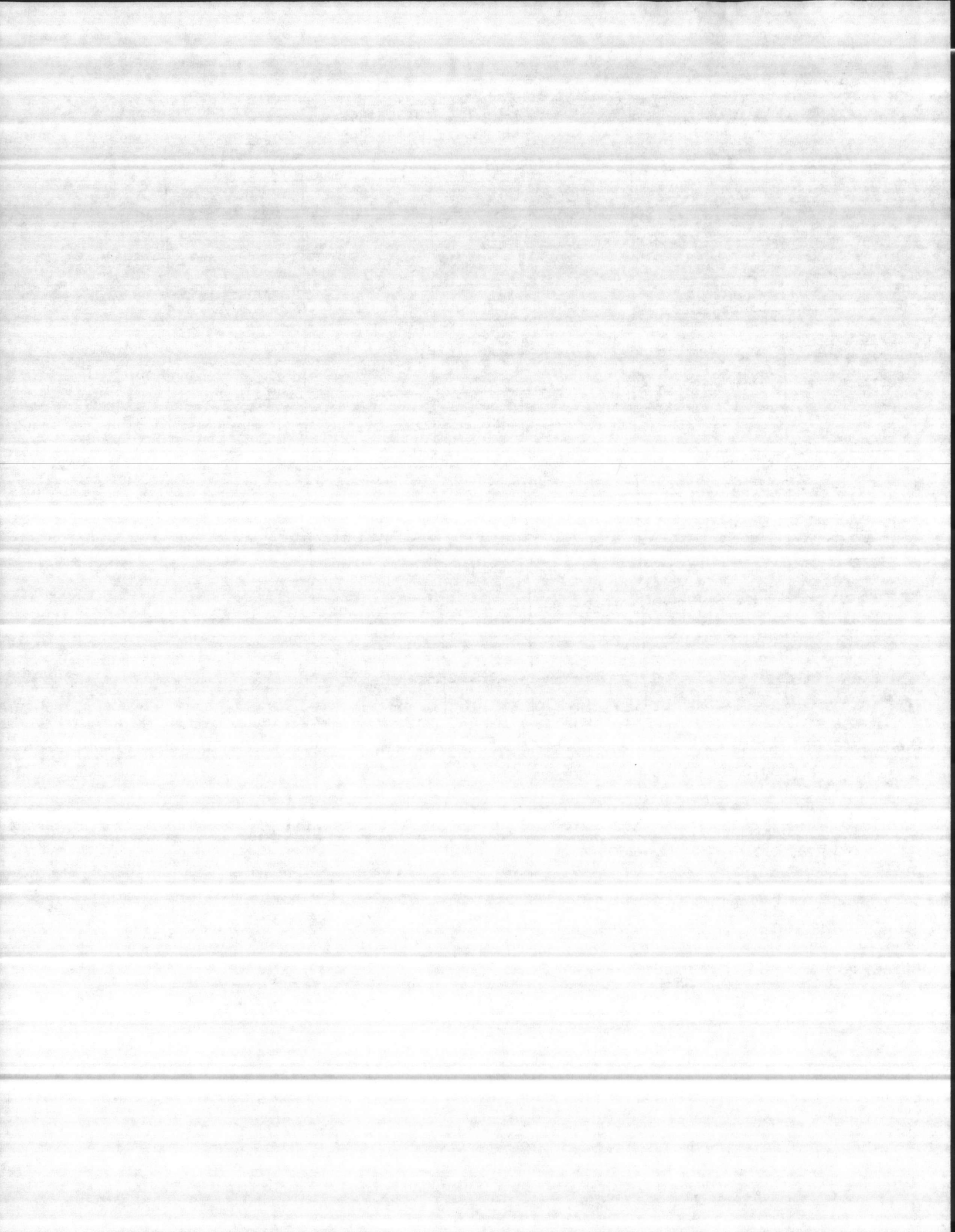
Is the water treated at this well? (Y,N) If yes, complete back of form.

If other wells are treated here, which ones? If treated elsewhere, where? H8670 PLANT

If purchase, retreat? (Y,N) If yes, complete back of form.

Use pedestal
Repair vent



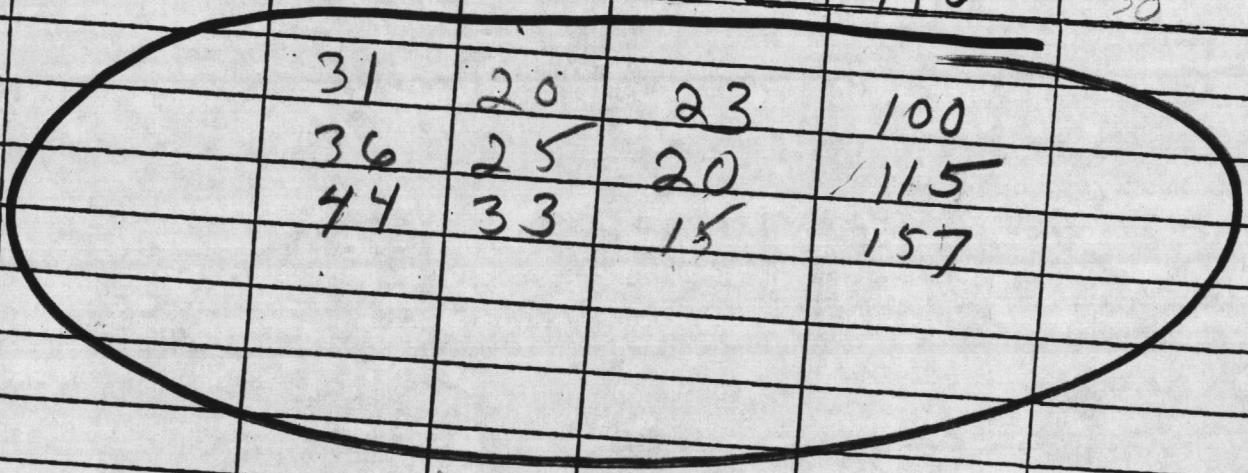


WELL NUMBER 708

BY STEVENSON & PETERSON

DATE 1-26-98

| AIR LINE | STATIC LEVEL | PUMPING LEVEL | DRAIN DOWN | DISCHARGE PRESSURE | GPM | START TIME |
|----------|--------------|---------------|------------|--------------------|-----|------------|
| 86 | 11 | 28 | 17 | 65 | 100 | 10 |
| | | 33 | 22 | 50 | 122 | 00 |
| | | 41 | 30 | 40 | 151 | |
| | | 44 | 33 | 35 | 162 | |
| | | 47 | 36 | 30 | 183 | 20 |
| | | | | 25 | 190 | 30 |
| | | 31 | 20 | 23 | 100 | |
| | | 36 | 25 | 20 | 115 | |
| | | 44 | 33 | 15 | 157 | |

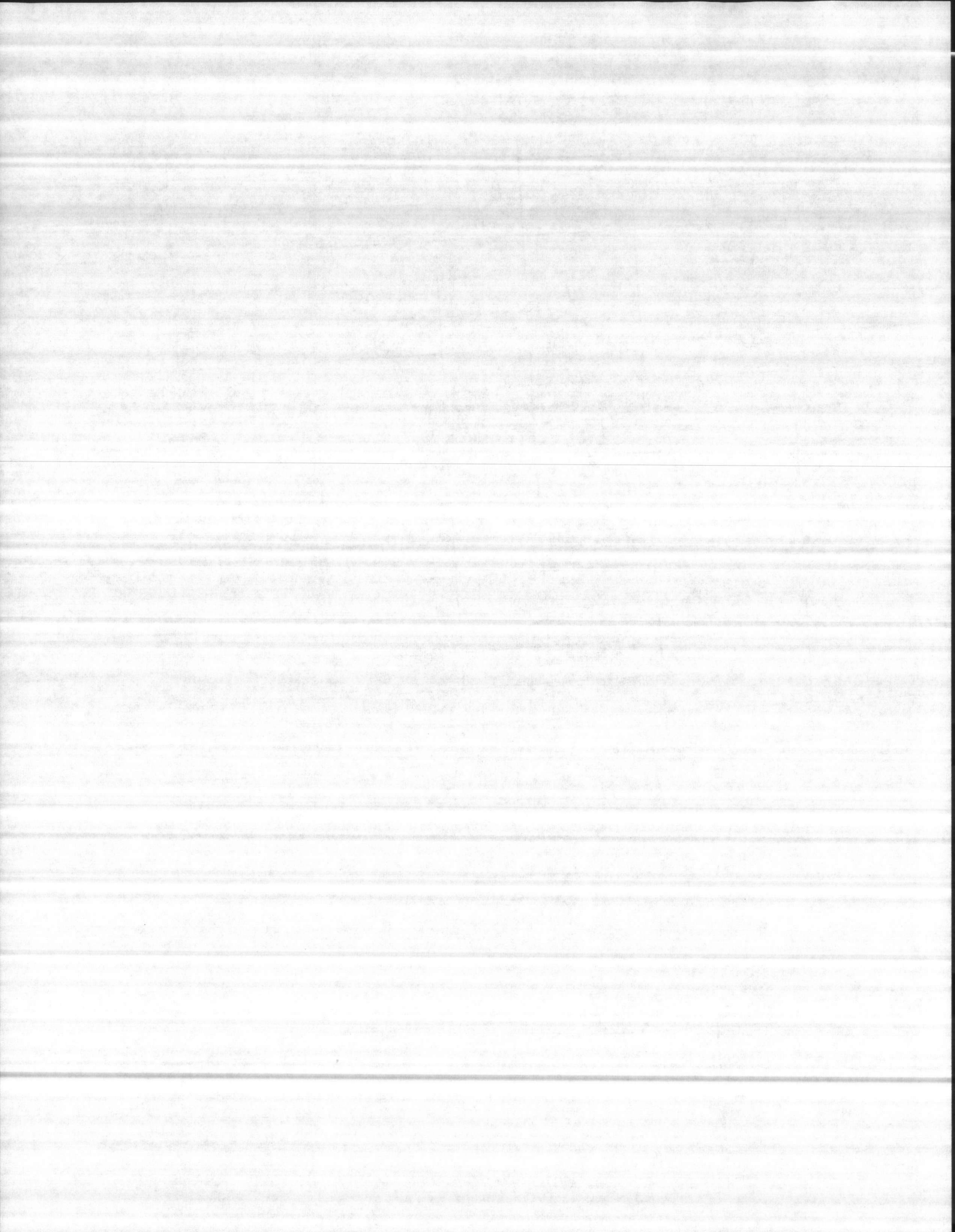


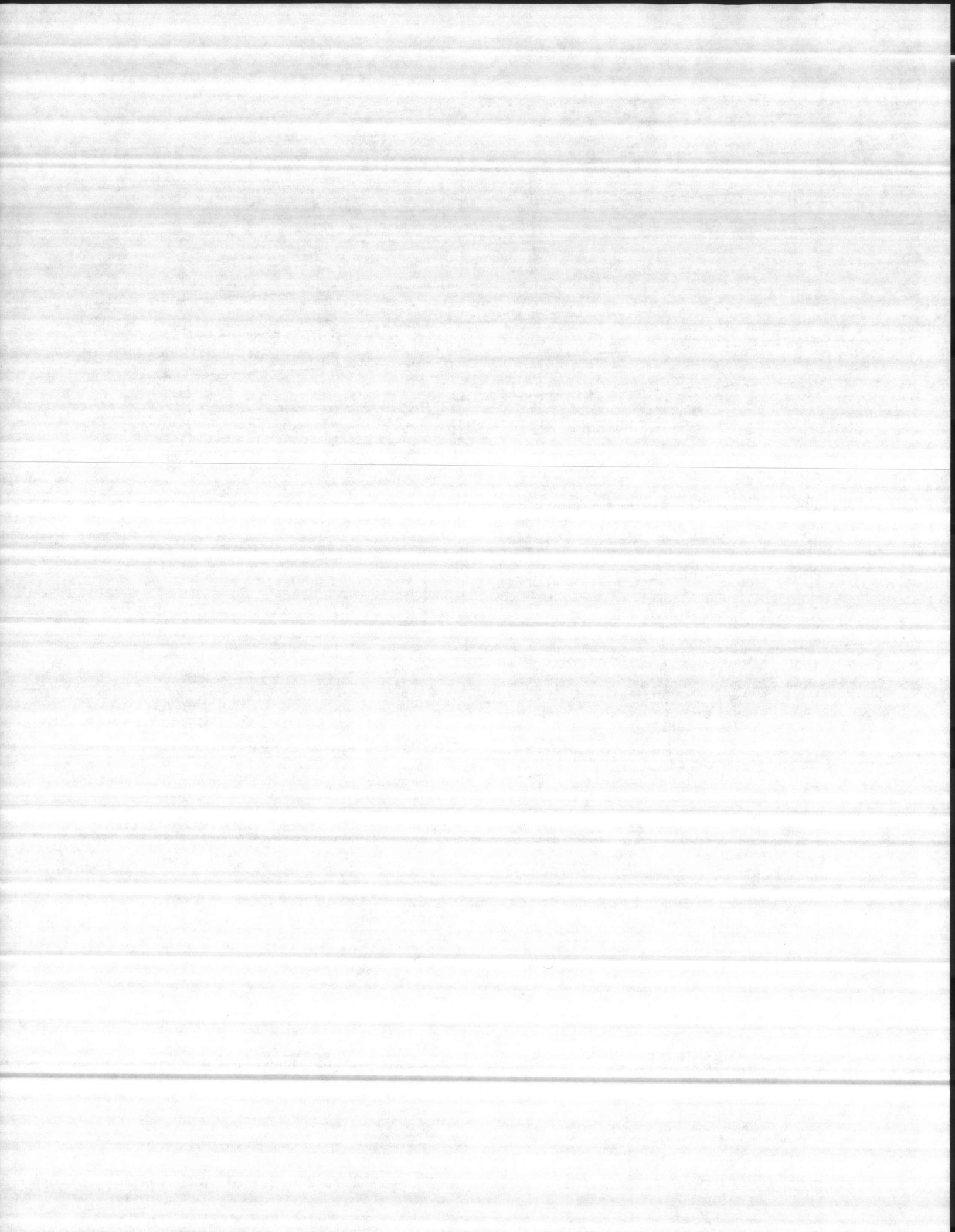
REMARKS

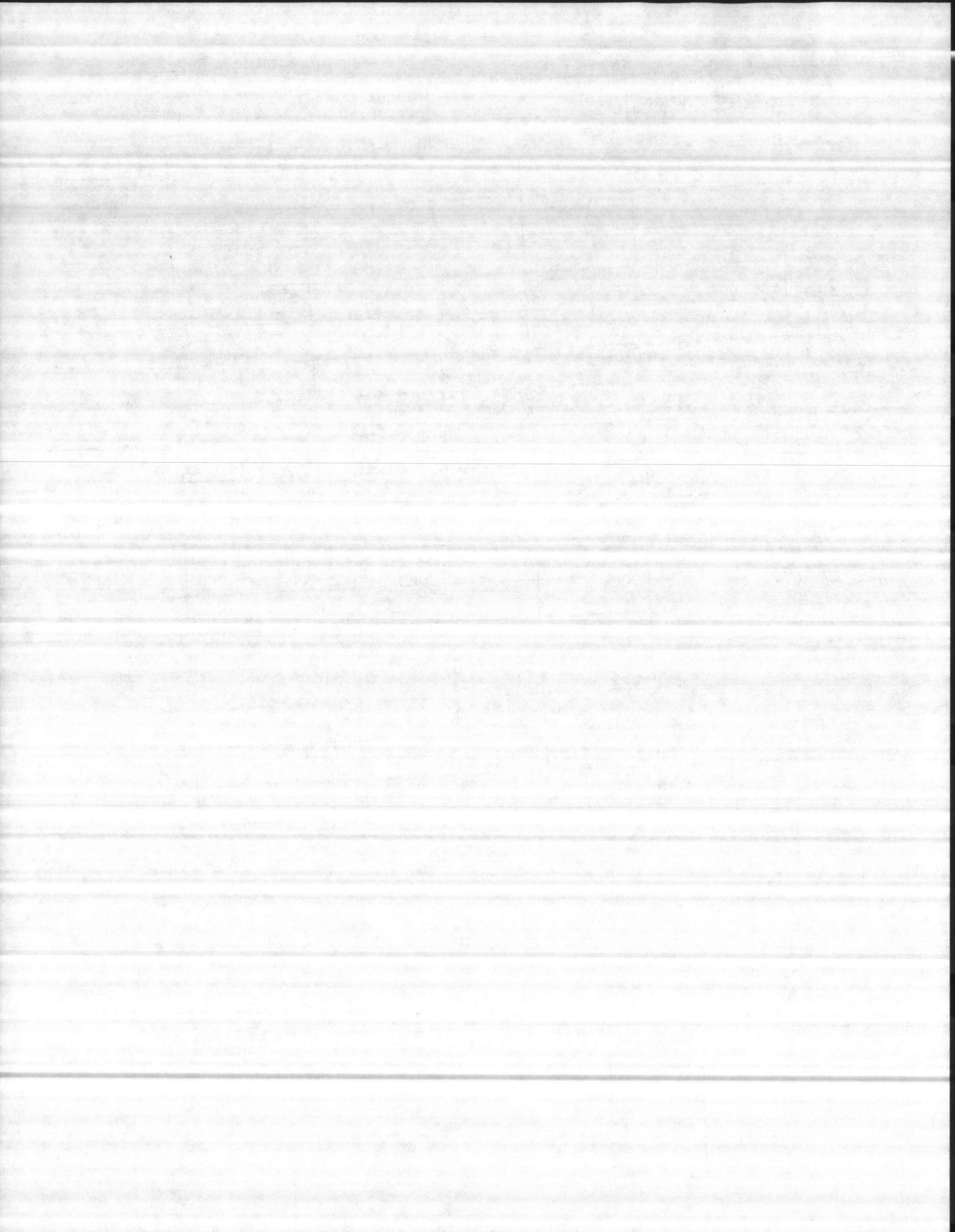
D/H - 83 PSI

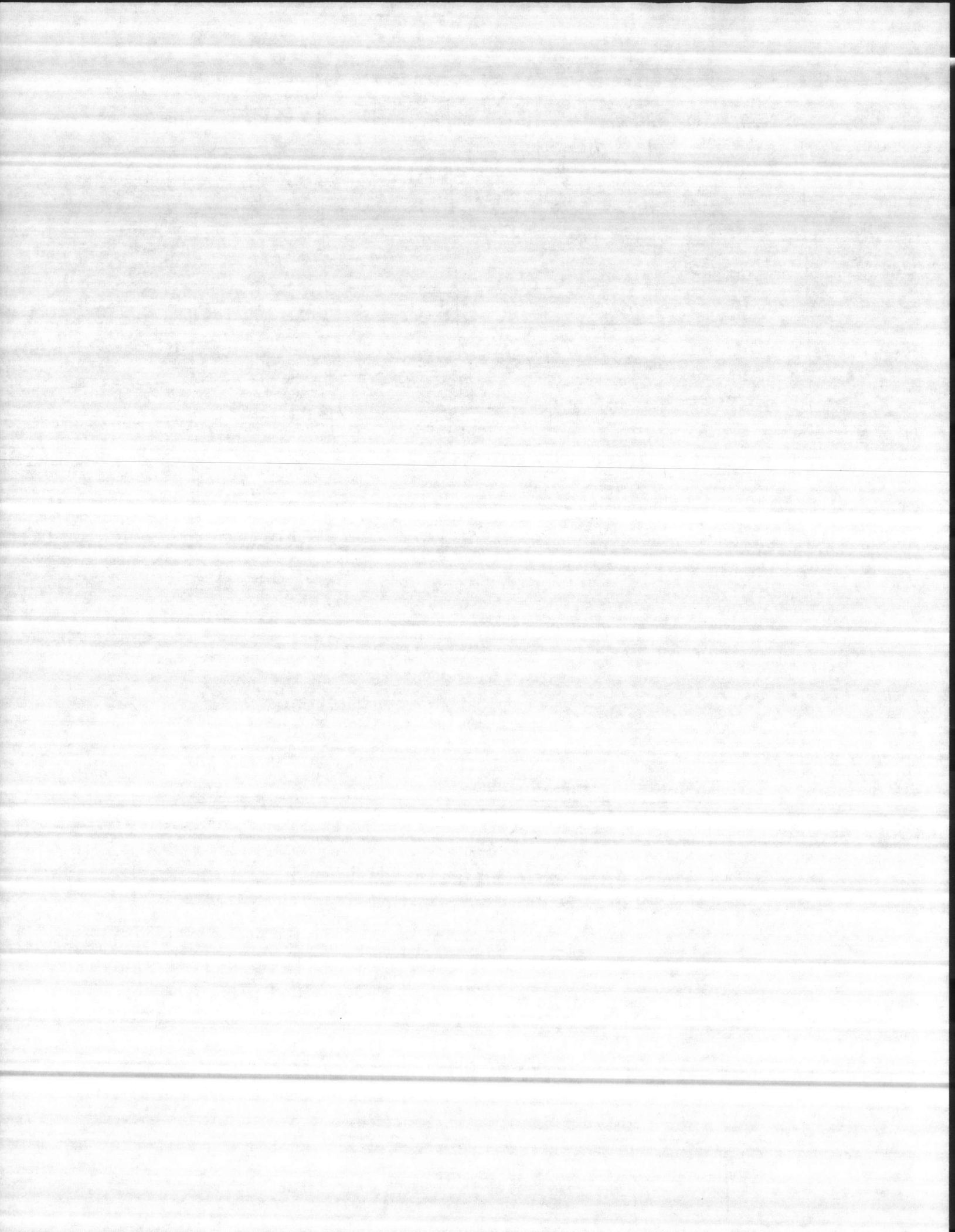
31 PSI

| MANUFACTURER | STAGE | S.N. | TOTAL HEAD | SIZE |
|--------------|-------|------|------------|------|
| | | | | |









Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

FROM CONTRACTOR
Harry Pepper & Associates, Inc.
TO
Henry Von Oesen & Associates, Inc.

| | | |
|---|------------------------------|------------------------|
| CONTRACT NO 81-C-1644 | TRANSMITTAL NO 195 | DATE 4-14-86 |
| PROJECT TITLE AND LOCATION Holcomb Blvd Water Treatment Plant | | |
| MCB, Cp Lejeune, North Carolina | | |

CONTRACTOR USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

- Contractor Approved
- OICC Approval
- Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

****ACTION CODES**
 A-Approved
 D-Disapproved
 AN-Approved as noted
 RA-Receipt acknowledged
 C-Comments
 R-Resubmit

| ITEM NO. | PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. | ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number) | NO. OF COPIES | ACTION CODES | REVIEWER'S INITIALS CODE AND DATE |
|----------|---|---|---------------|--------------|-----------------------------------|
| | 02734 | ROTARY DRILLED WATER WELLS | | | |
| 1 | 3.1.6 | 24 Hour Pump Test | 7 | A | JRB |
| 2 | 3.1.6 | 2 Hour Recovery Test | 7 | A | JRB |
| | | | | | |
| | | | | | |
| | | | | | |

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

Phil Reese

DATE RECEIVED BY REVIEWER

4/18/86

FROM (Reviewer)

Henry von Oesen & Assoc., Inc.

TO

- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

4-13-86

53 APR 22 11 10

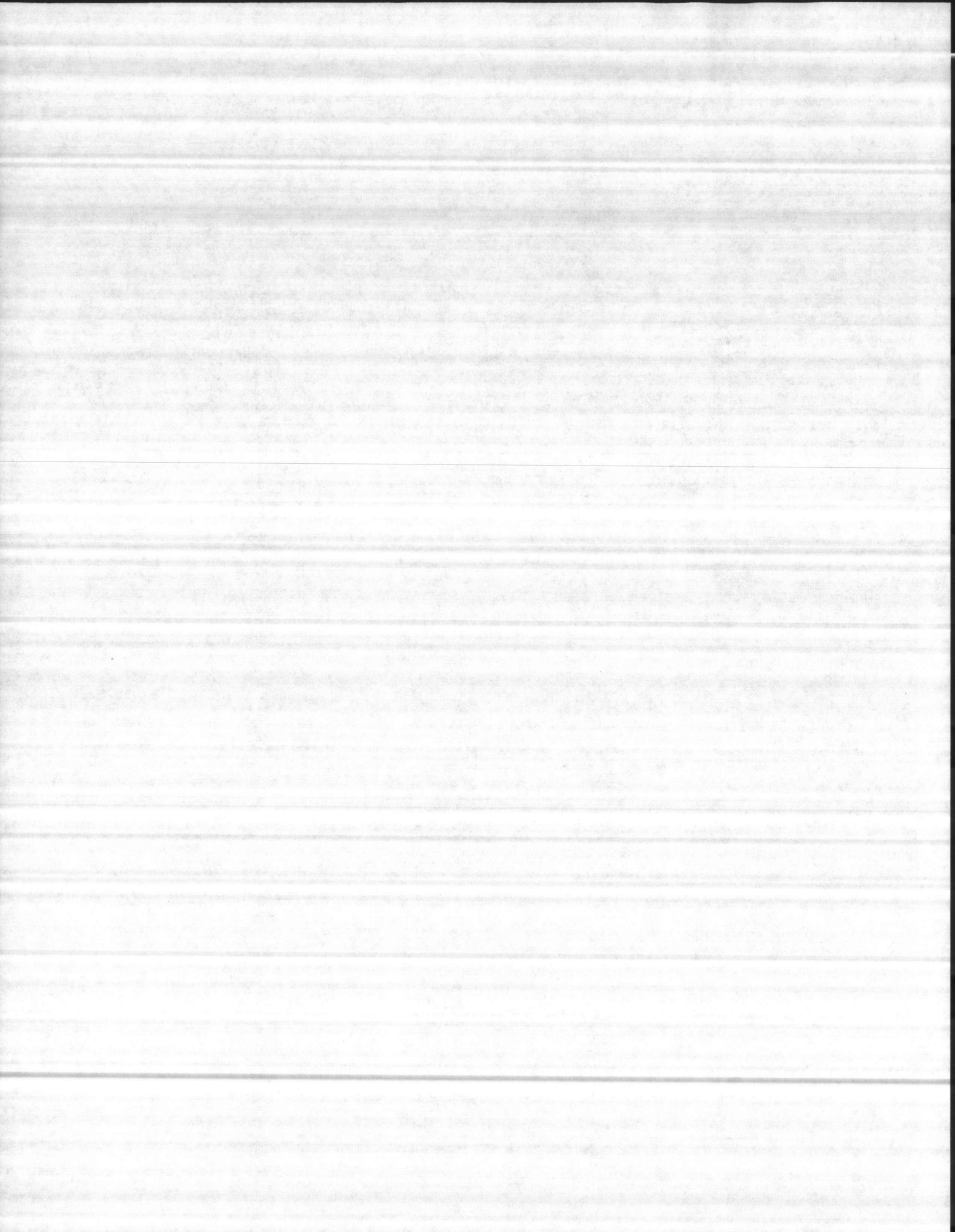
COPIES TO
ROICC (2)
LANTDIV (1)
A-E (1)

DATE

4/21/86

SIGNATURE

Phil Reese



| <u>TIME</u> | <u>PUMP SETTING</u> 126' | <u>STATIC</u> 7' |
|-------------|-----------------------------|---------------------|
| | <u>PUMPING LEVEL</u> | <u>DRAWDOWN</u> |
| 1:01 | 85'1" | |
| 1:02 | 86'6" | 1'5" |
| 1:03 | 87'2" | 8" |
| 1:04 | 87'10" | 8" |
| 1:05 | 88'1" | 3" |
| 1:06 | 88'3" | 2" |
| 1:07 | 88'4" | 1" |
| 1:08 | 88'6" | 2" |
| 1:09 | 88'10" | 4" |
| 1:10 | 89'1" | 3" |
| 1:15 | 89'4" | 3" |
| 1:20 | 89'8" | 4" |
| 1:25 | 90'1" | 5" |
| 1:30 | 90'8" | 7" |
| 1:35 | 91'2" | 6" |
| 1:40 | 91'7" | 5" |
| 1:45 | 92'1" | 6" |
| 1:50 | 92'5" | 4" |
| 1:55 | 92'10" | 5" |
| 2:00 | 93'2" | 4" |
| 2:05 | 93'8" | 18" |
| 2:10 | 94'4" | 4" |
| 3:10 | 94'6" | 2" |
| 4:10 | 94'8" | 2" |
| 5:10 | 94'10" | 2" |
| 6:10 | 94'11" | 1" |
| 7:10 | 95'2" | 3" |
| 8:10 | 95'3" | 1" |
| 9:10 | " | - |
| 10:10 | 95'4" | 1" |
| 11:10 | " | - |
| 12:10 | " | - |
| 1:10 | " | - |
| 2:10 | " | - |
| 3:10 | 95'5" | 1" |
| 4:10 | " | - |
| 5:10 | " | - |
| 6:10 | " | - |
| 7:10 | " | - |
| 8:10 | " | - |
| 9:10 | " | - |
| 10:10 | " | - |
| 11:10 | " | - |
| 12:10 | " | - |
| 1:10 | " | - |

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED X
APPROVED AS NOTED _____
DISAPPROVED _____

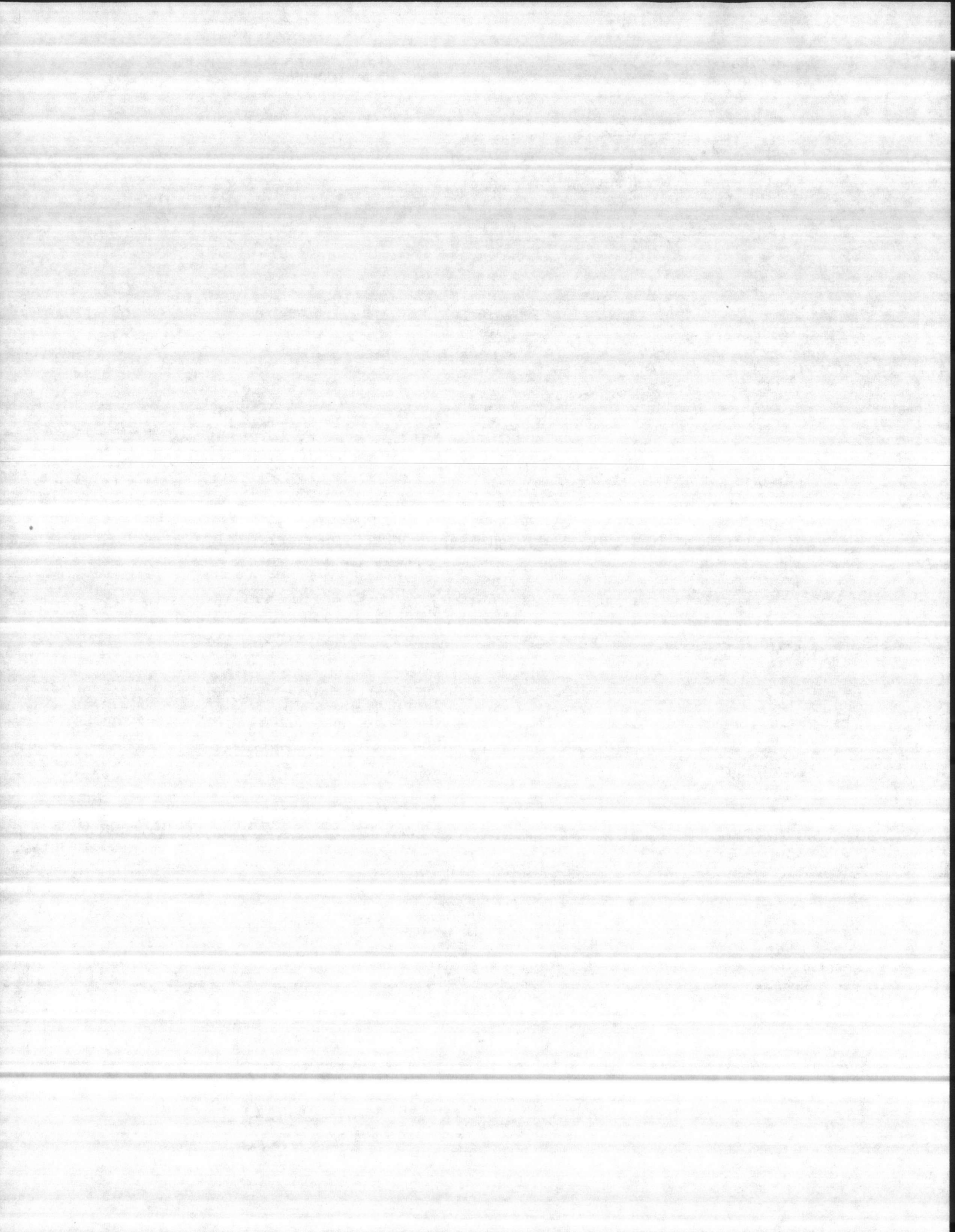
SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. 162470-81-C-1644
APPROVAL OF A SUBMITTAL DOCUMENT
APPROVAL OF ANY DEVIATION FROM
CONTRACT REQUIREMENTS UNLESS THE
CONTRACTOR CALLS ATTENTION TO AND SUPPORTS
THE DEVIATION --- THE CONTRACTOR SHALL BE RESPONSIBLE
FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF
TRADES, ETC., AS REQUIRED.

REVIEWER [Signature] DATE APR 21 1986
FOR OFFICER IN CHARGE OF CONSTRUCTION

It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number 162470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space and is:

Approved for use. _____
 Submitted for Government approval. _____
 Approved for use subject to Government approval of specific deviation. _____

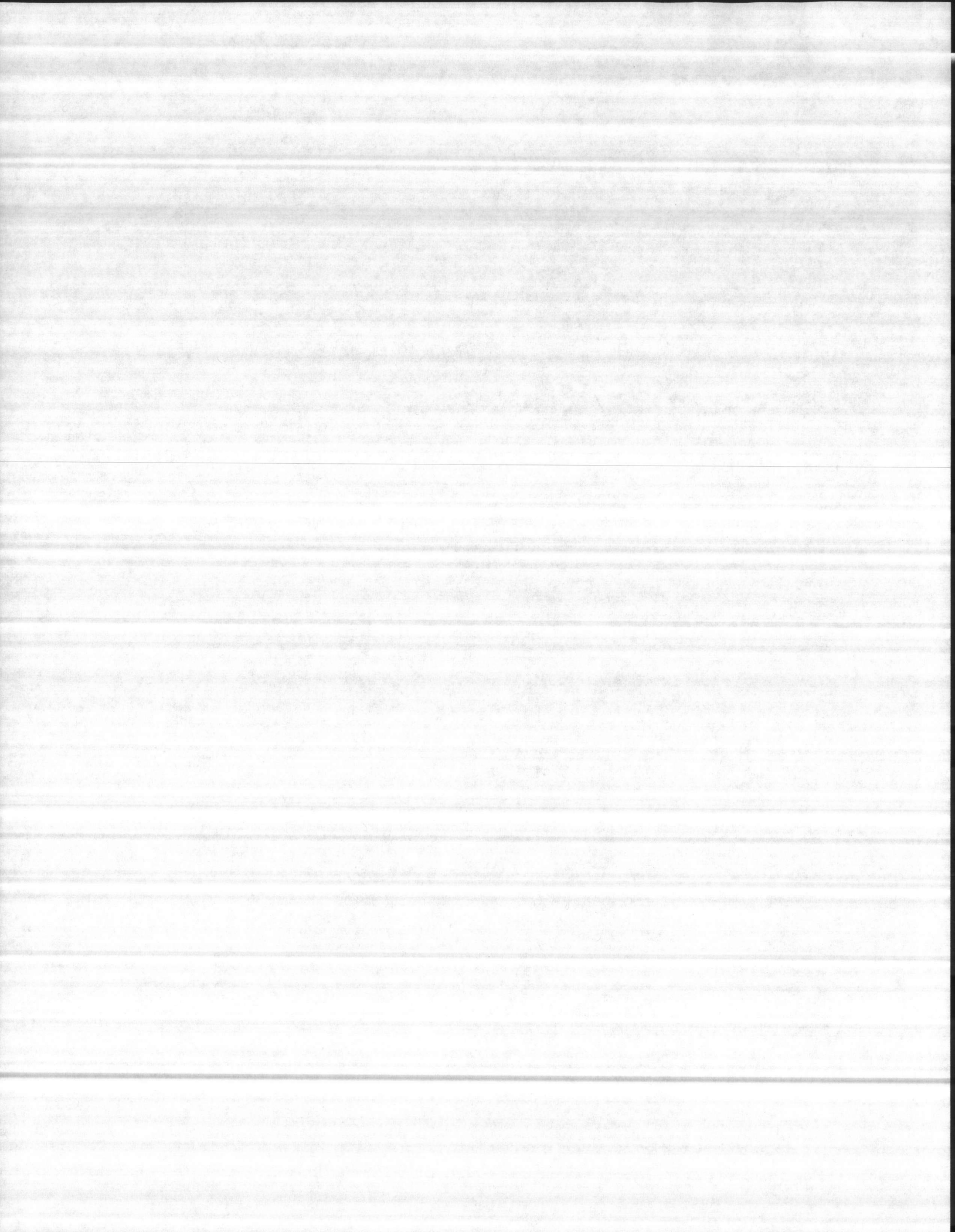
Authorized Reviewer _____ DATE _____
 Signature CQC Rep. [Signature] DA. 4-14-86



Two Hour Recovery
Well # 10

ITEM # 2

| | |
|------|--------|
| 1:01 | 94'4" |
| 1:02 | 33'6" |
| 1:03 | 26'2" |
| 1:04 | 22'6" |
| 1:05 | 19'8" |
| 1:06 | 16'2" |
| 1:07 | 14'3" |
| 1:08 | 12'4" |
| 1:09 | 11'6" |
| 1:10 | 10'11" |
| 1:15 | 10'9" |
| 1:20 | 10'7" |
| 1:25 | 10'5" |
| 1:30 | 7' |
| 1:35 | " |
| 1:40 | " |
| 1:45 | " |
| 1:50 | " |
| 1:55 | " |
| 2:00 | " |



Hant

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644 TRANSMITTAL NO 125 DATE 11-12-85

FROM CONTRACTOR Harry Pepper & Associates, Inc.
TO Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant
Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

Contractor Approved

OICC Approval

Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

****ACTION CODES**

- A-Approved
- D-Disapproved
- AN-Approved as noted
- RA-Receipt acknowledged.
- C-Comments
- R-Resubmit

| ITEM NO | PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. * | ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number) | NO. OF COPIES | ACTION CODES | REVIEWER'S INITIALS CODE AND DATE |
|---------|---|---|---------------|--------------|-----------------------------------|
| | 02734 | ROTARY DRILLED WATER WELLS WELL # 10 | | | |
| 1 | 2.2.4 | Recommendation and Data Submittal | 7 | A | HP |
| 2 | 2.2 | Driller's Log | 7 | A | HP |
| 3 | 2.2.3 | Electric Log and Gamma Log | 7 | A | HP |
| 4 | 2.2.2 | Water Analysis | 7 | A | HP |
| 5 | 2.2.2 | Sieve Analysis | 7 | A | HP |
| 6 | 1.2.1 | Shop Drawings | 7 | A | HP |

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Phil Reese *Phil Reese*

DATE RECEIVED BY REVIEWER
11/19/85

FROM (Reviewer)
Henry von Oesen & Assoc., Inc.

TO

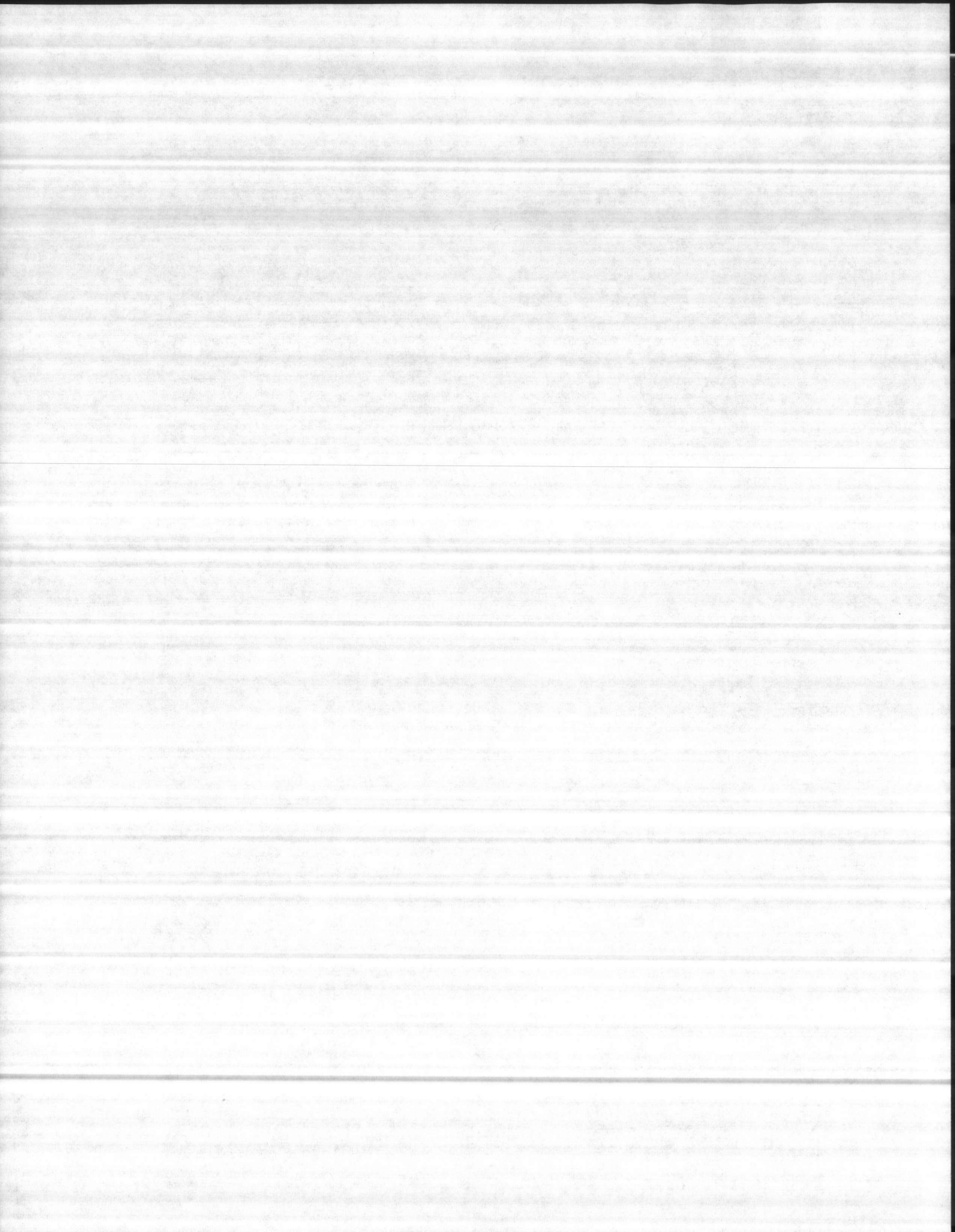
Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.

Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

COPIES TO ROICC (2) LANTDIV (1) A-E (1) DATE SIGNATURE *Phil Reese*

November 20, 1985



LAW & COMPANY
Consulting and Analytical Chemists

Item # 4

ESTABLISHED 1903

Main Office
1711 Castle Street
P.O. Box 629
Wilmington, N.C. 28402

Well # 708

RICHARD SPIVEY, President
919-762-7082 919-762-8956
TWX 510-937-0280

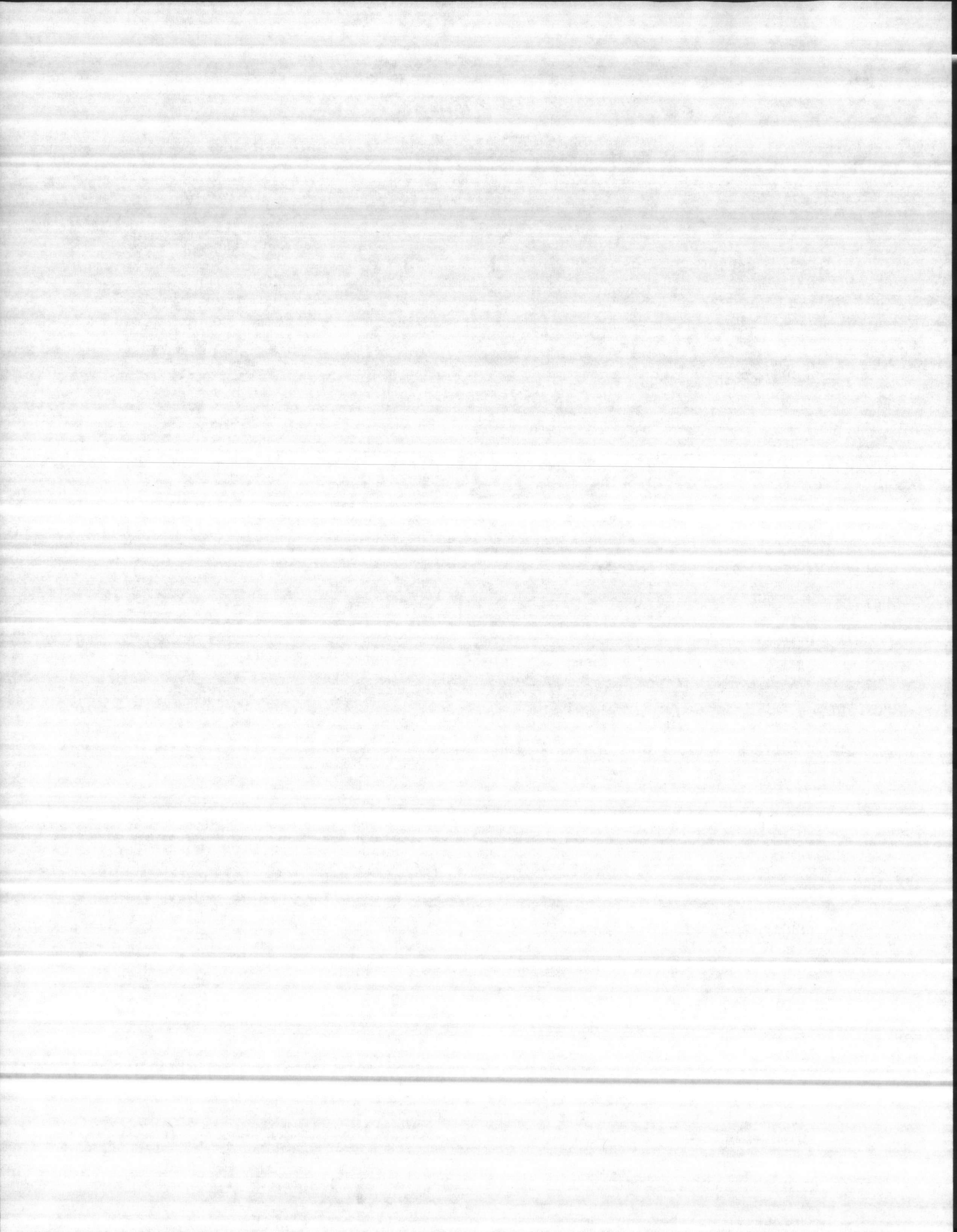
MAJETTE WELL & PUMP CO
P. O. BOX 908
SMITHFIELD, VA 23430
ATTN: BUD KELLOG

DATE COLLECTED: 8-28-85
DATE RECEIVED: 8-28-85
COLLECTED BY: CUSTOMER
LAB ID# EW 9227

SAMPLE DESCRIPTION: WELL #10 83'-93'

| <u>TESTS/UNITS</u> | | <u>RESULTS</u> |
|------------------------|--------|----------------|
| DISSOLVED OXYGEN | (MG/L) | 6 |
| TEMPERATURE | | 19.5 |
| pH | | 8.1 |
| CARBON DIOXIDE | (PPM) | 0 |
| SULFIDES | (PPM) | <.1 |
| CHLORINE DEMAND | (PPM) | .7 |
| COLOR | (APHA) | 80 |
| TURBIDITY | (NTU) | 22 |
| TOTAL ALKALINITY | (PPM) | 178 |
| HYDROXIDE | (PPM) | 0 |
| BICARBONATE | (PPM) | 158 |
| CARBONATE | (PPM) | 20 |
| TOTAL HARDNESS | (PPM) | 144 |
| NON-CARBONATE | (PPM) | 0 |
| CARBONATE | (PPM) | 144 |
| TOTAL DISSOLVED SOLIDS | (PPM) | 438 |

CONTINUED.....



LAW & COMPANY
Consulting and Analytical Chemists

ESTABLISHED 1903

Main Office
1711 Castle Street
P.O. Box 629
Wilmington, N.C. 28402

Well #708

RICHARD SPIVEY, President
919 762-7082 919 762-8956
TWX 510-937-0280

| <u>TESTS/UNITS</u> | | <u>RESULTS</u> |
|----------------------|---------|----------------|
| SPECIFIC CONDUCTANCE | (UMHOS) | 300 |
| SULFATES | (PPM) | <1 |
| CALCIUM | (PPM) | 41 |
| MAGNESIUM | (PPM) | 1.1 |
| SODIUM | (PPM) | 11.2 |
| POTASSIUM | (PPM) | .8 |
| CHLORIDE | (PPM) | 6.2 |
| NITRATE NITROGEN | (PPM) | <.2 |
| IRON | (PPM) | .48 |
| MANGANESE | (PPM) | <.02 |
| SILICON | (PPM) | 4.5 |
| FLOURIDE | (PPM) | .20 |

CHEMIST Dolly Bidwan
TOTAL CHARGES: \$180.00

Item #5

CONTACT...-
 TELEPHONE...-
 MARKS...WATER WELL
 RECOMMENDATIONS:
 GRAVEL SIZE _____
 SCREEN SIZE _____

HSSC

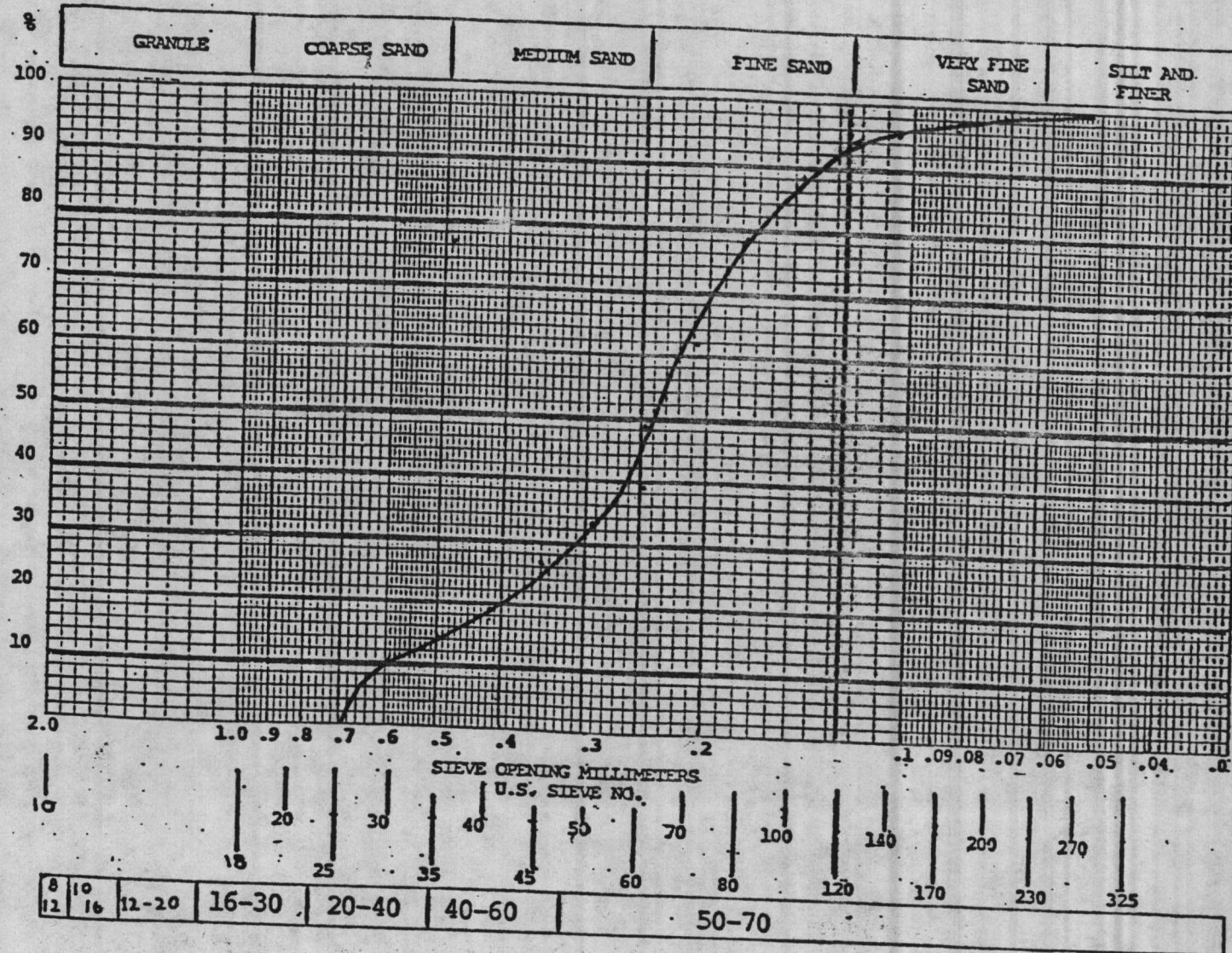
HOWARD SMITH
 SCREEN COMPANY

A Halliburton Company
 P.O. Box 666 • Houston, Texas 77001
 713-869-5771 • Telex: 77-4667

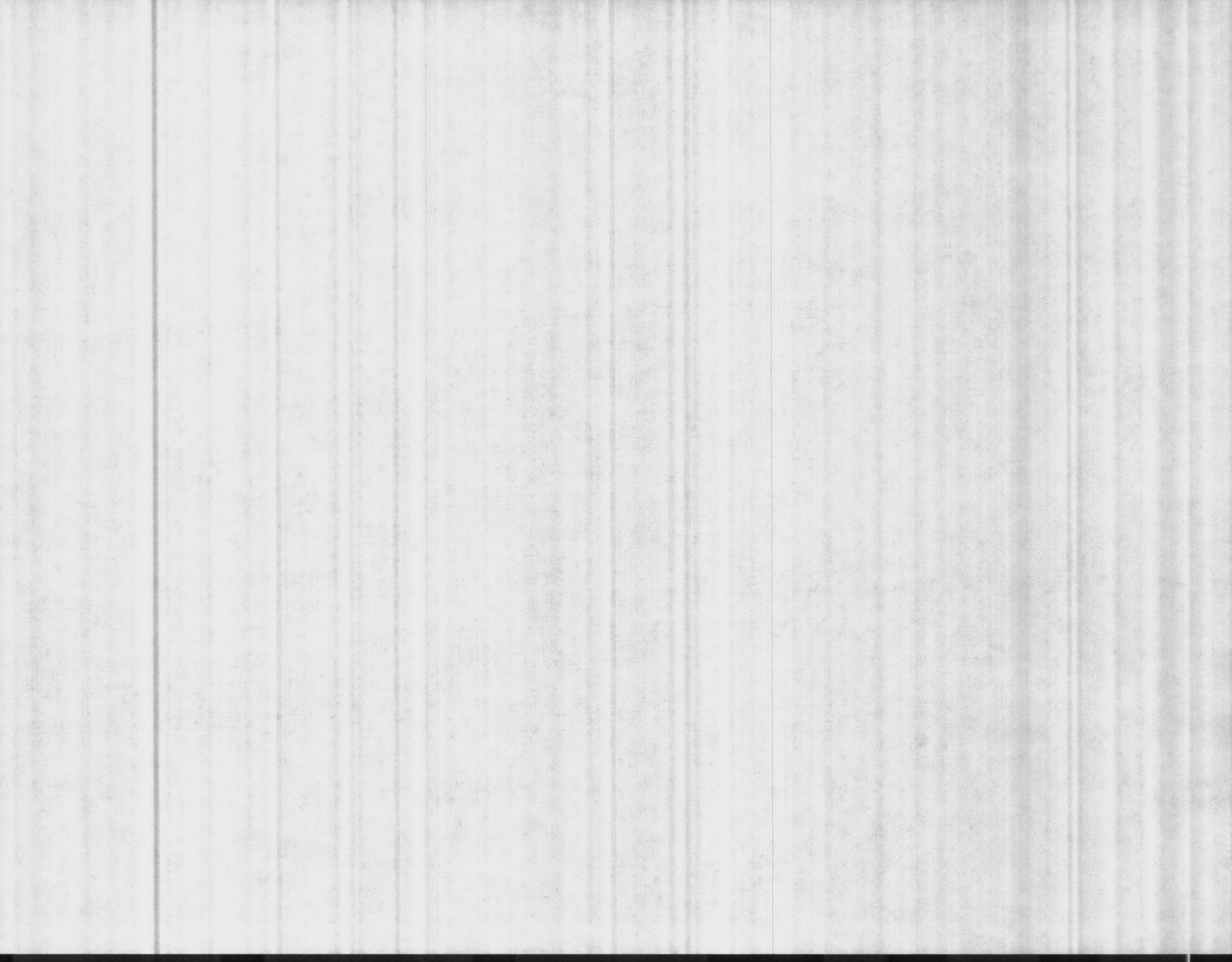
COMPANY...HARRY PENNER & ASSOCIATES INC.
 WELL.....#10
 DEPTH.....150-180
 FIELD.....-
 COUNTY.....-
 STATE.....JACKSONVILLE NC

SIEVE ANALYSIS REPORT

| SIEVE NO. | IN | MM | WT RET | CUM WT | CUM % |
|-----------|-------|-------|--------|--------|-------|
| 10 | .0787 | 2.000 | -- | -- | -- |
| 18 | .0394 | 1.000 | -- | -- | -- |
| 20 | .0331 | 0.840 | -- | -- | -- |
| 25 | .0280 | 0.710 | -- | -- | -- |
| 30 | .0234 | 0.589 | 1.2 | 1.2 | 10.1 |
| 35 | .0197 | 0.500 | 0.5 | 1.7 | 14.3 |
| 40 | .0165 | 0.420 | 0.6 | 2.3 | 19.3 |
| 45 | .0139 | 0.351 | 0.9 | 3.2 | 26.9 |
| 50 | .0117 | 0.297 | 0.8 | 4.0 | 33.6 |
| 60 | .0098 | 0.250 | 1.9 | 5.9 | 49.6 |
| 70 | .0083 | 0.210 | 1.5 | 7.4 | 62.2 |
| 80 | .0070 | 0.177 | 1.9 | 9.3 | 78.2 |
| 100 | .0059 | 0.149 | 1.2 | 10.5 | 88.2 |
| 120 | .0049 | 0.124 | 0.7 | 11.2 | 94.1 |
| 140 | .0041 | 0.104 | 0.1 | 11.3 | 95.0 |
| | .0035 | 0.088 | 0.2 | 11.5 | 96.6 |
| 200 | .0029 | 0.074 | 0.2 | 11.7 | 98.3 |
| 230 | .0024 | 0.062 | 0.1 | 11.8 | 99.2 |
| 270 | .0021 | 0.053 | 0.1 | 11.9 | 100.0 |
| 325 | .0017 | 0.044 | -- | -- | -- |
| 325 | -- | -- | -- | -- | -- |



JES E JACKSON
 -16-85



FCR

85

R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

Item # 6

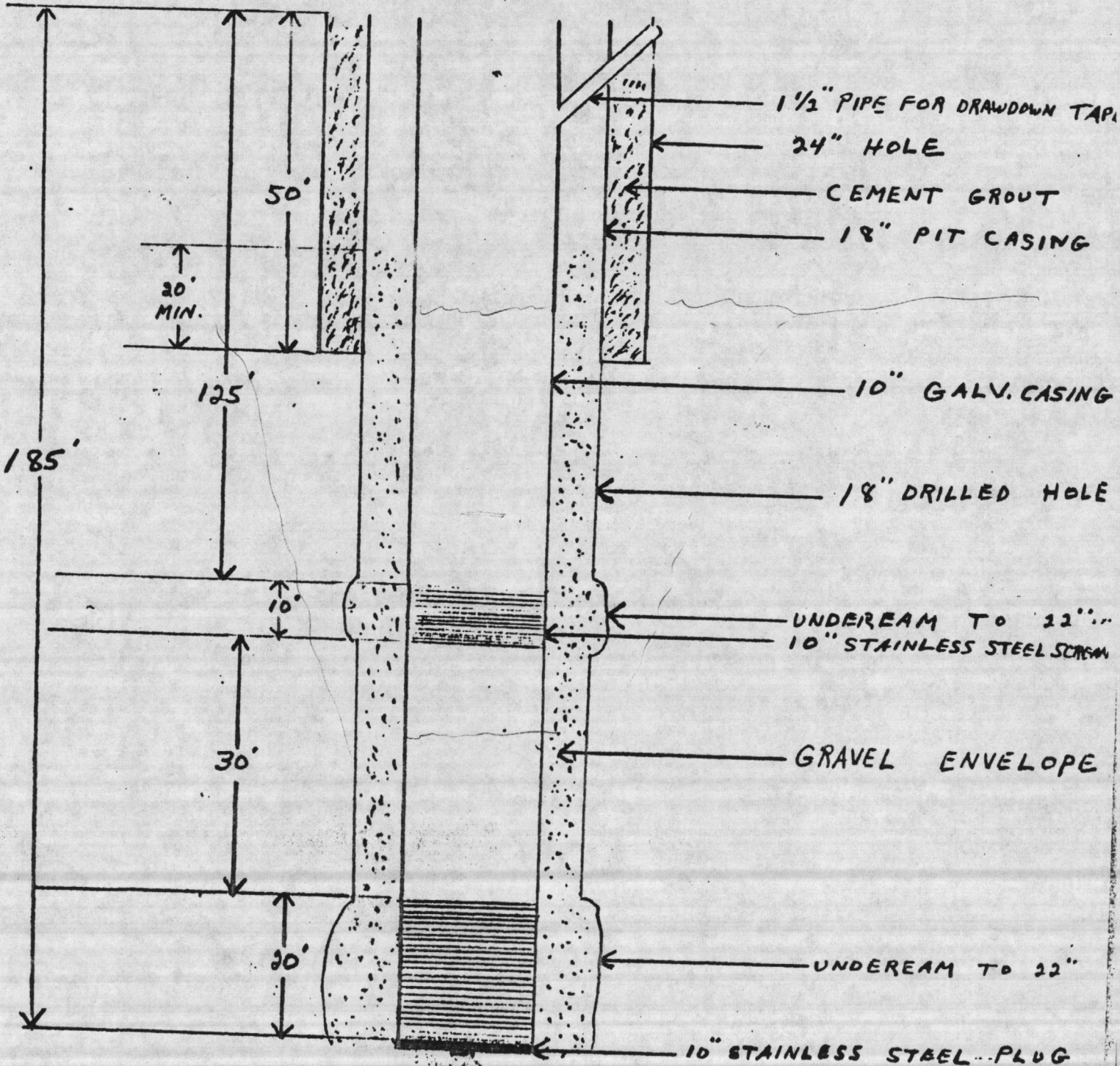


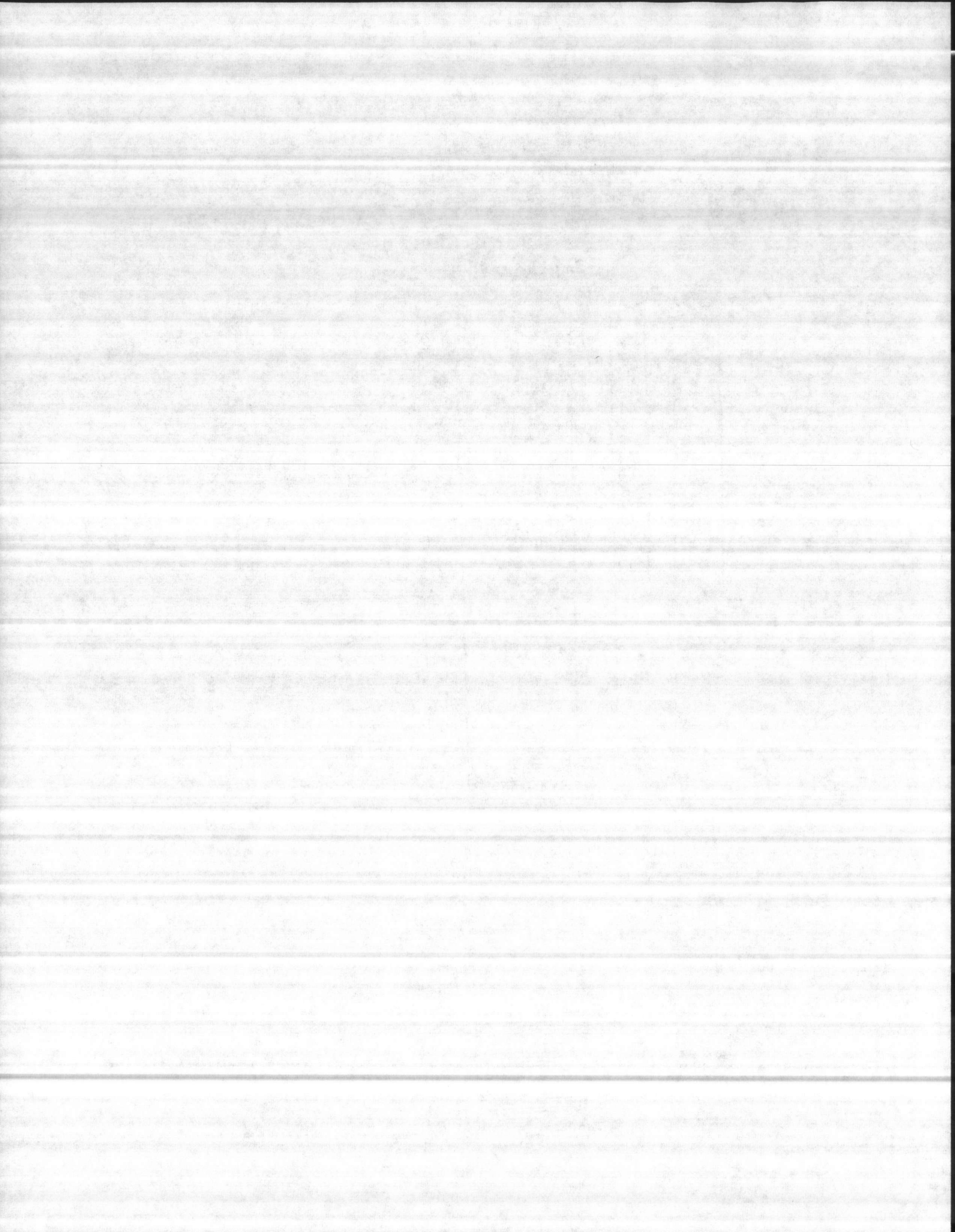
Serving Tidewater, Virginia and Eastern North Carolina

WELL # 10

P. O. Box 908 Phone - 804 - 357-4105

Smithfield, Virginia 23430







HARRY PEPPER & ASSOCIATES, INC.

Item #1

November 13, 1985

Henry Von Oesen
611 Princess St.
Wilmington, NC 28402

RE: N62470-81-C-1644
Expansion of Holcomb Blvd.
Water Treatment Plant
Camp Lejeune, NC 28542
Well #10

ENGINEERING CONTRACTORS

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED
APPROVED AS NOTED
DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. **N62470-81-C-1644**

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
APPROVAL OF ANY MATERIALS OR WORKMANSHIP
TRACT REQUIREMENTS UNLESS THE CONTRACTOR
TOP CALLS ATTENTION TO AND SUPPORTS THE
DEVIATION---THE CONTRACTOR SHALL BE RESPONSIBLE
FOR PROVIDING PROPER PHYSICAL
DIMENSIONS & WEIGHTS, COORDINATION OF
FITTINGS, ETC., AS REQUIRED.

REVIEWER *J.M. Buerger* DATE **10/20/85**

FOR OFFICER IN CHARGE OF CONSTRUCTION

Gentlemen:

We are enclosing seven (7) copies of the Driller's Log, Electric Log, Gamma Log, Water Analysis and Sieve Analysis for your review. The test well was drilled at 250 ft.

We recommend a 030-slot stainless steel screen set at 125-135 ft. and at 165-185 ft. depth for a total of 30 VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well may yield 260 GPM.

Please review the data and advise if we are to proceed with developing a permanent well at this site.

Very truly yours,
HARRY PEPPER & ASSOCIATES, INC.

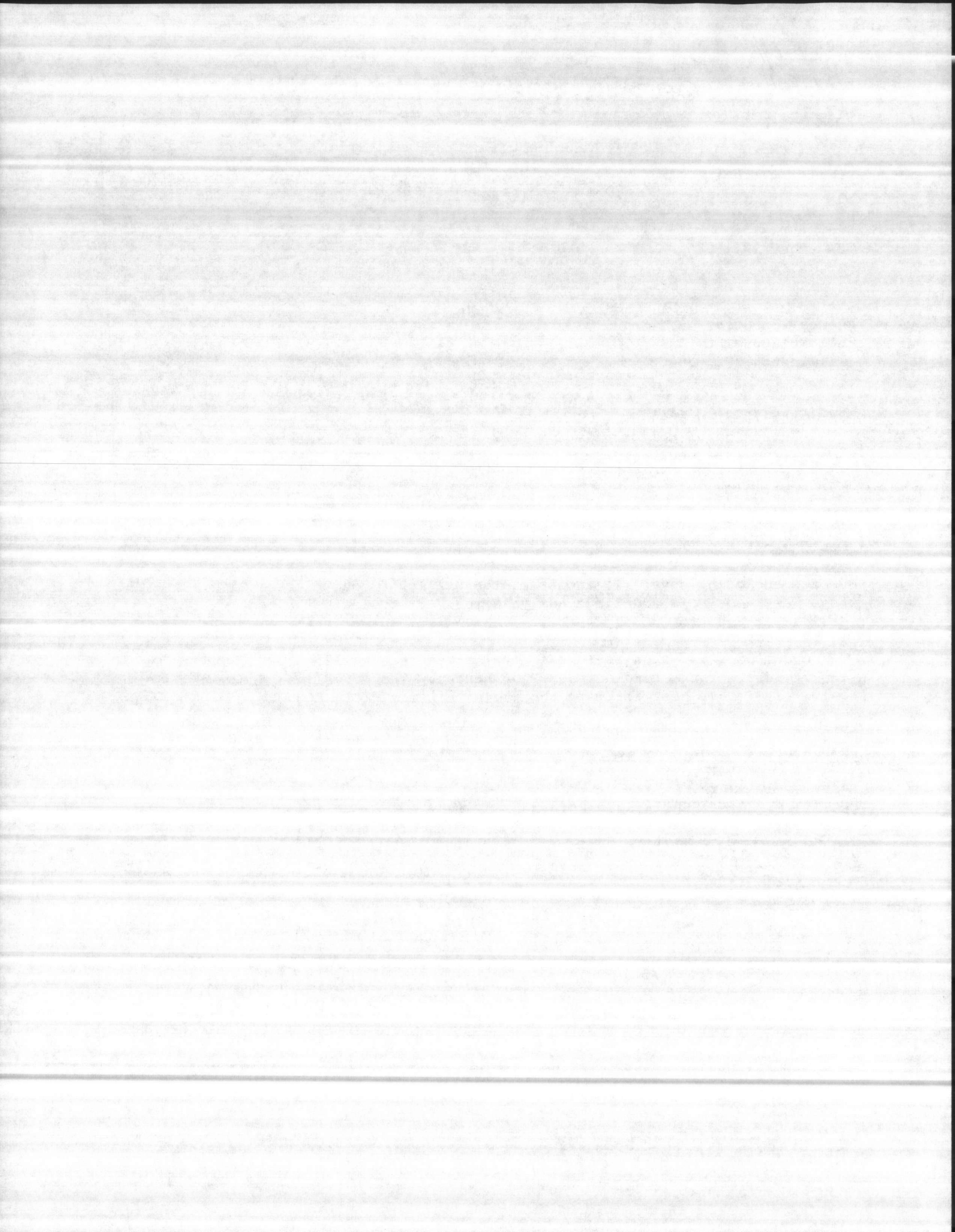
Phil Reese
Phil Reese
CQC Officer

Enclosures

It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:

- Approved for use.
- Submitted for Government approval.
- Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. *Phil Reese* DATE **11-12-85**

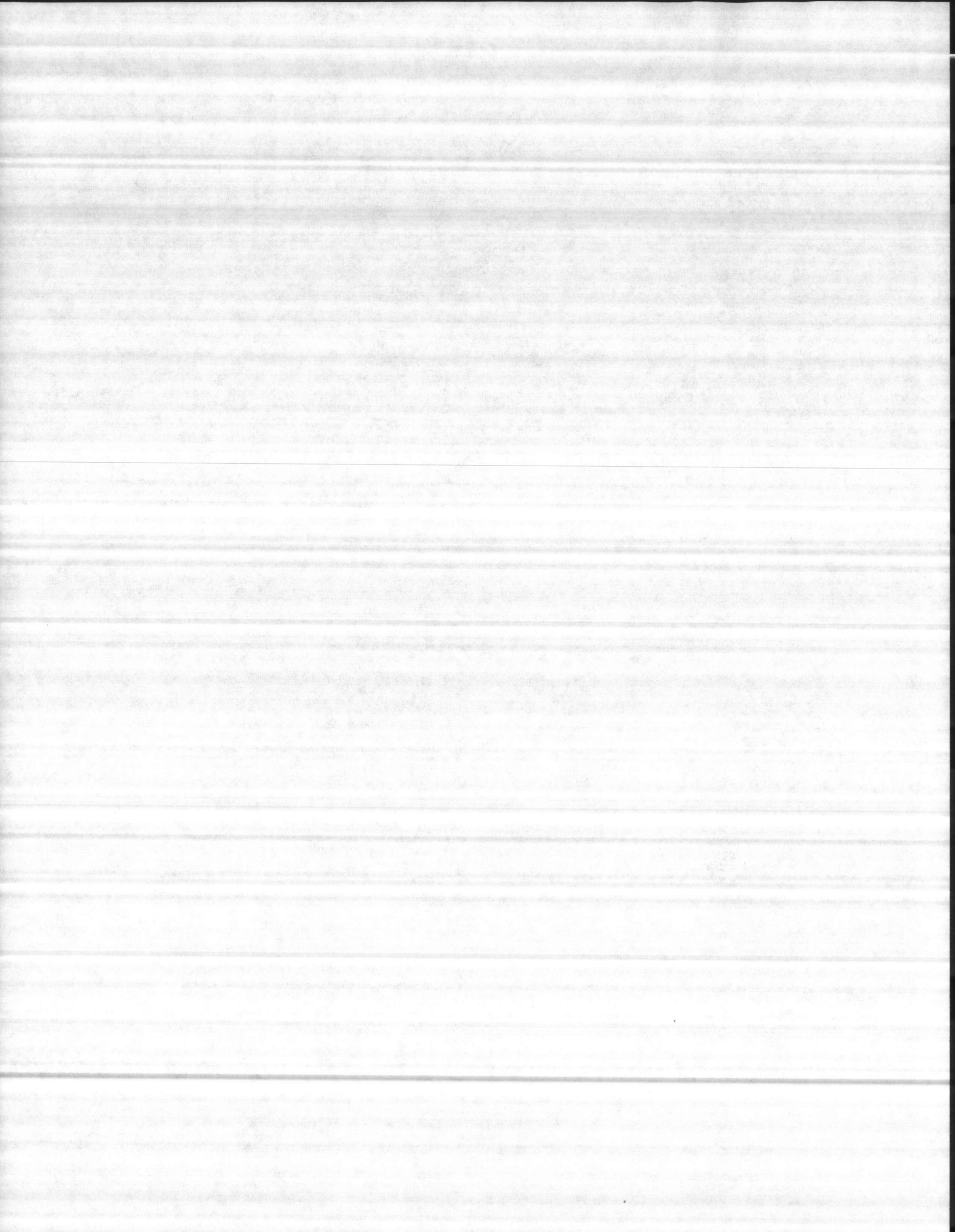


Item #2

DRILLERS LOG CAMP LEJEUNE WELL #10

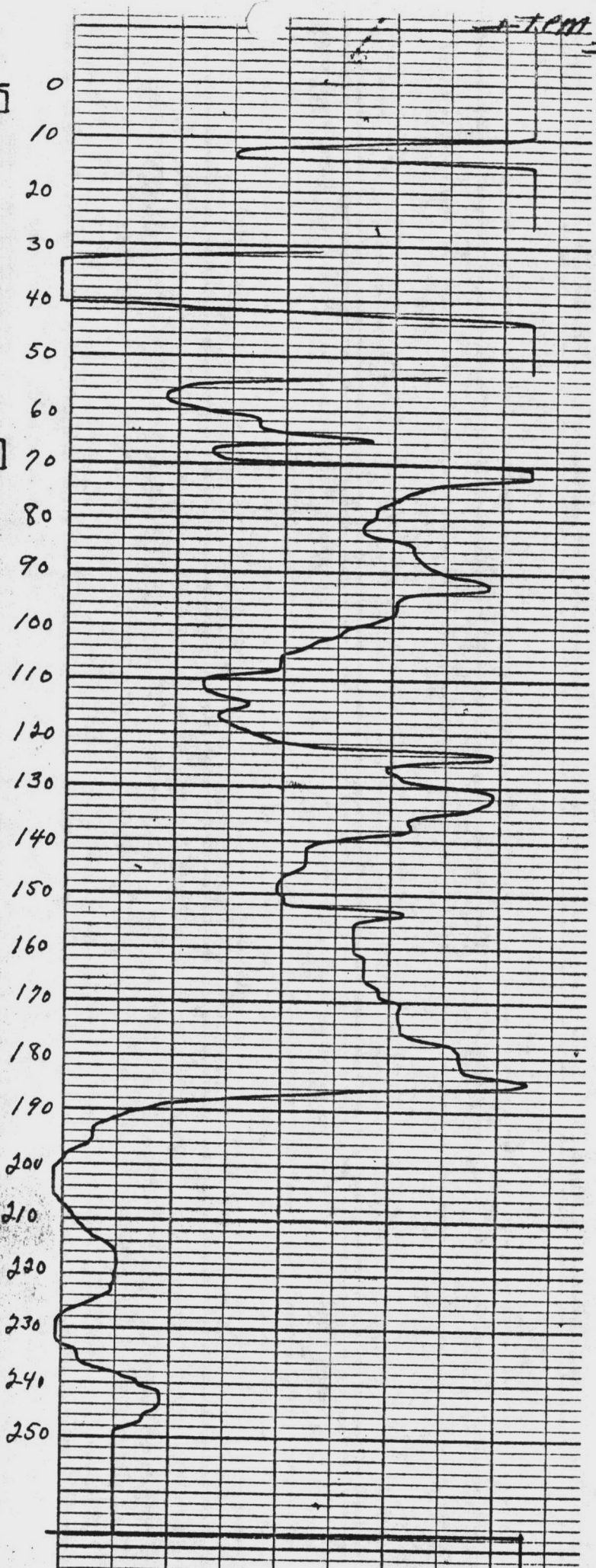
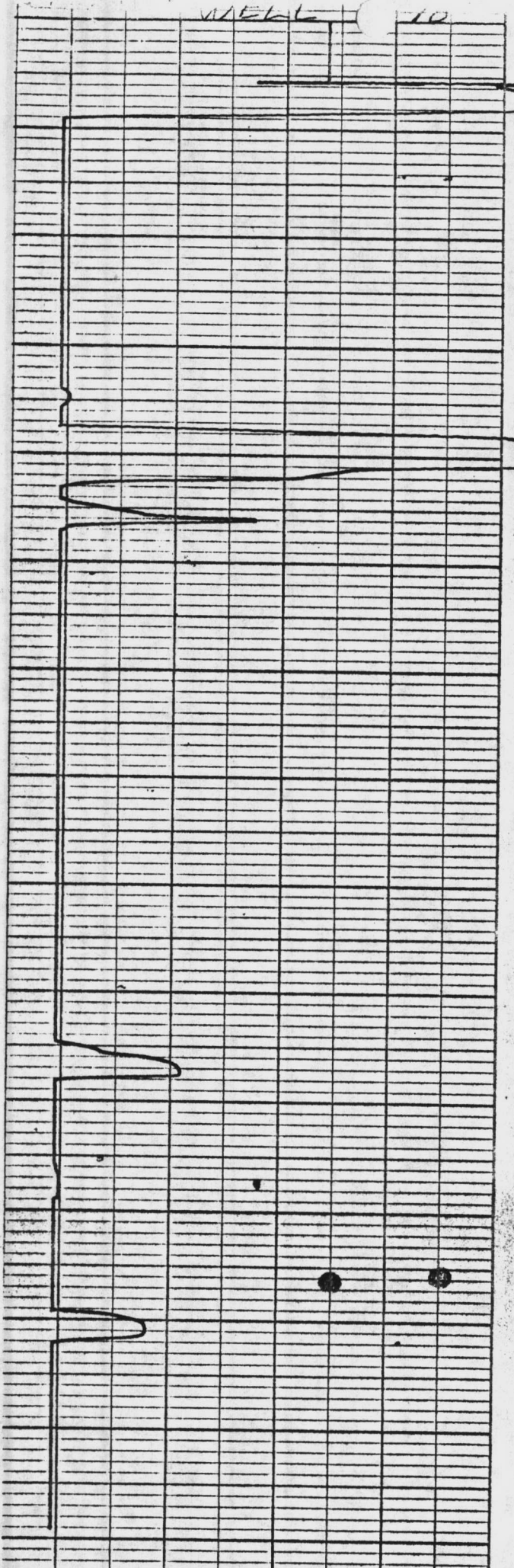
DEPTH OF SAMPLE

| | | | |
|-----|---|---------|--------------------------------|
| 0 | - | 40 FT. | TOPSOIL AND GRAY CLAY |
| 40 | - | 60 FT. | GRAY AND WHITE CLAY, FINE SAND |
| 60 | - | 70 FT. | POPCORN SAND AND GRAY CLAY |
| 70 | - | 215 FT. | LIMESTONE |
| 215 | - | 250 FT. | GREEN CLAY AND LIMESTONE |

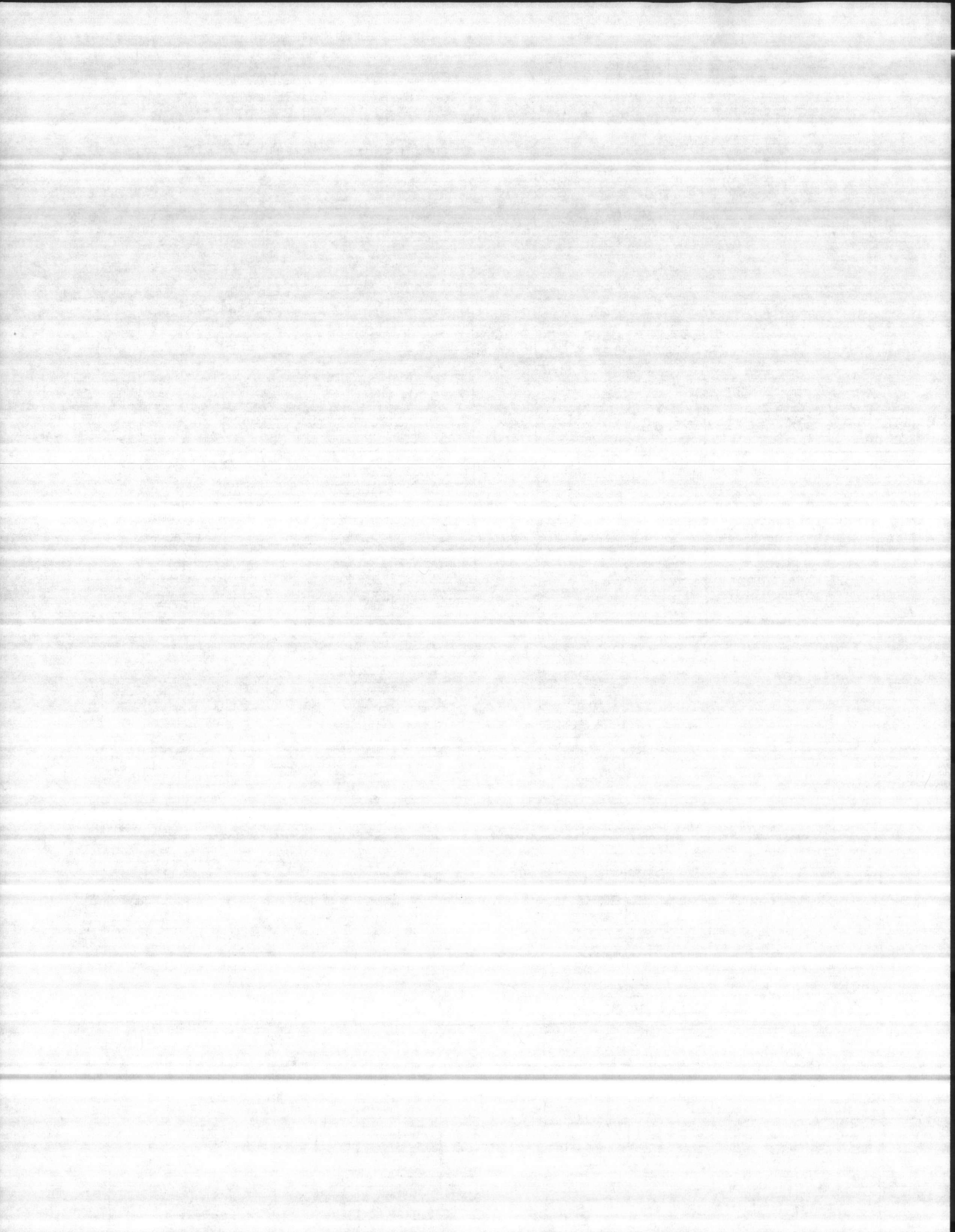


WELL 10

T.M. #3



0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

| | | |
|--------------------------|-----------------------|------------------|
| CONTRACT NO 81-C-1644 | TRANSMITTAL NO 194 | DATE 4-8-1986 |
|--------------------------|-----------------------|------------------|

FROM CONTRACTOR
Harry Pepper & Associates, Inc.

TO
Henry Von Oesen & Associates, Inc.

PROJECT TITLE AND LOCATION
Holcomb Blvd Water Treatment Plant
MCB, Cp Lejeune, North Carolina

CONTRACTOR USE ONLY

List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

- Contractor Approved
- OICC Approval
- Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

****ACTION CODES**

- A- Approved
- D- Disapproved
- AN- Approved as noted
- RA- Receipt acknowledged.
- C- Comments
- R- Resubmit

| ITEM NO | PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. | ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number) | NO. OF COPIES | ACTION CODES | REVIEWER'S INITIALS CODE AND DATE |
|---------|---|---|---------------|--------------|-----------------------------------|
| | 02734 | ROTARY DRILLED WATER WELLS | | | |
| 1 | | Step Test #10 | 7 | A | JRB |
| | | | | | |
| | | | | | |
| | | | | | |

CONTRACTOR'S COMMENTS

Contractor was advised by Title II Inspector to do 24 Hr Pump Test at 300 GPM.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Phil Reese *Phil Reese*

DATE RECEIVED BY REVIEWER
4/11/86

FROM (Reviewer)
Henry von Oesen & Assoc.

TO

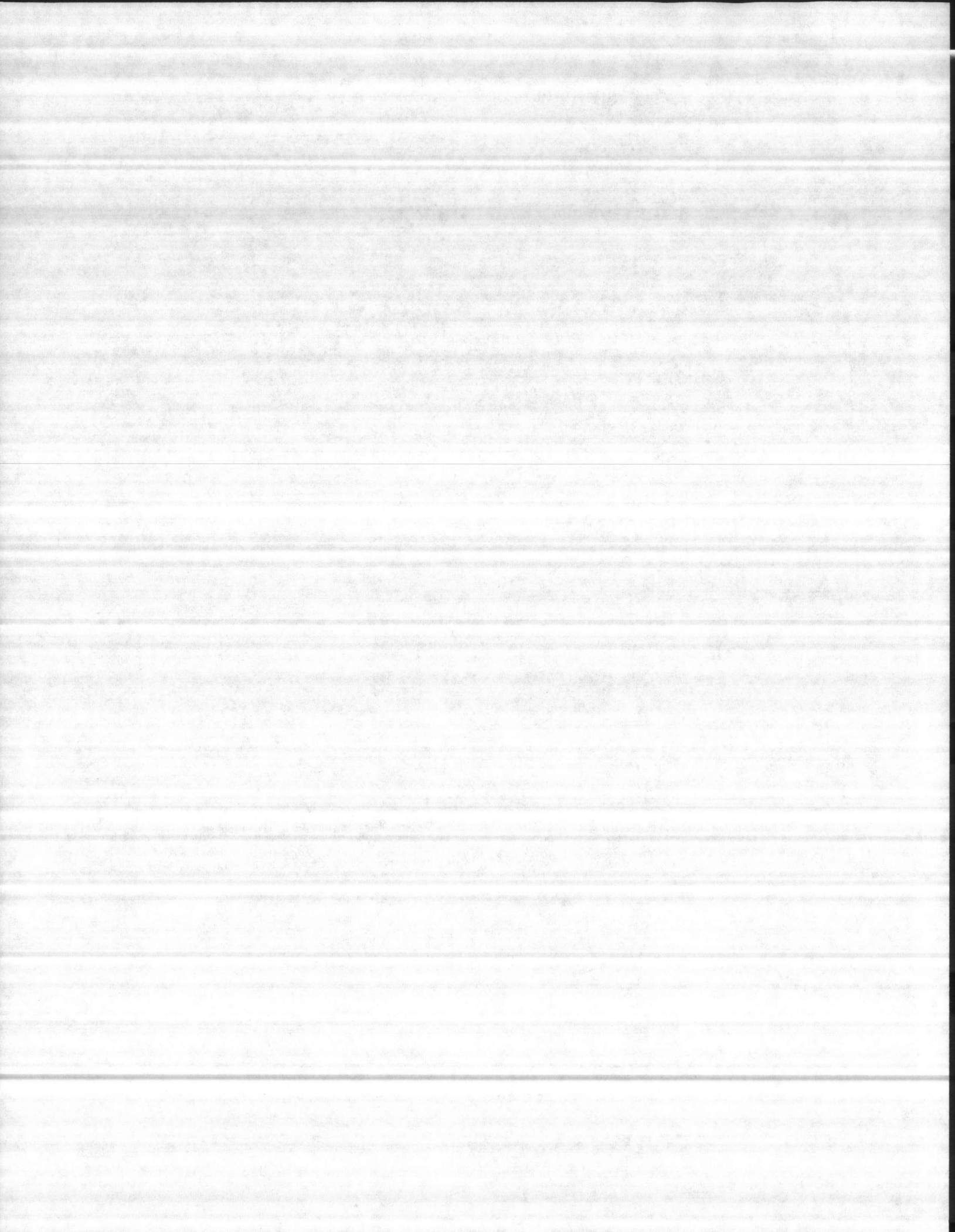
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

COPIES TO
ROICC (2)
LANTDIV (1)
A-E (1)

DATE
4/14/86

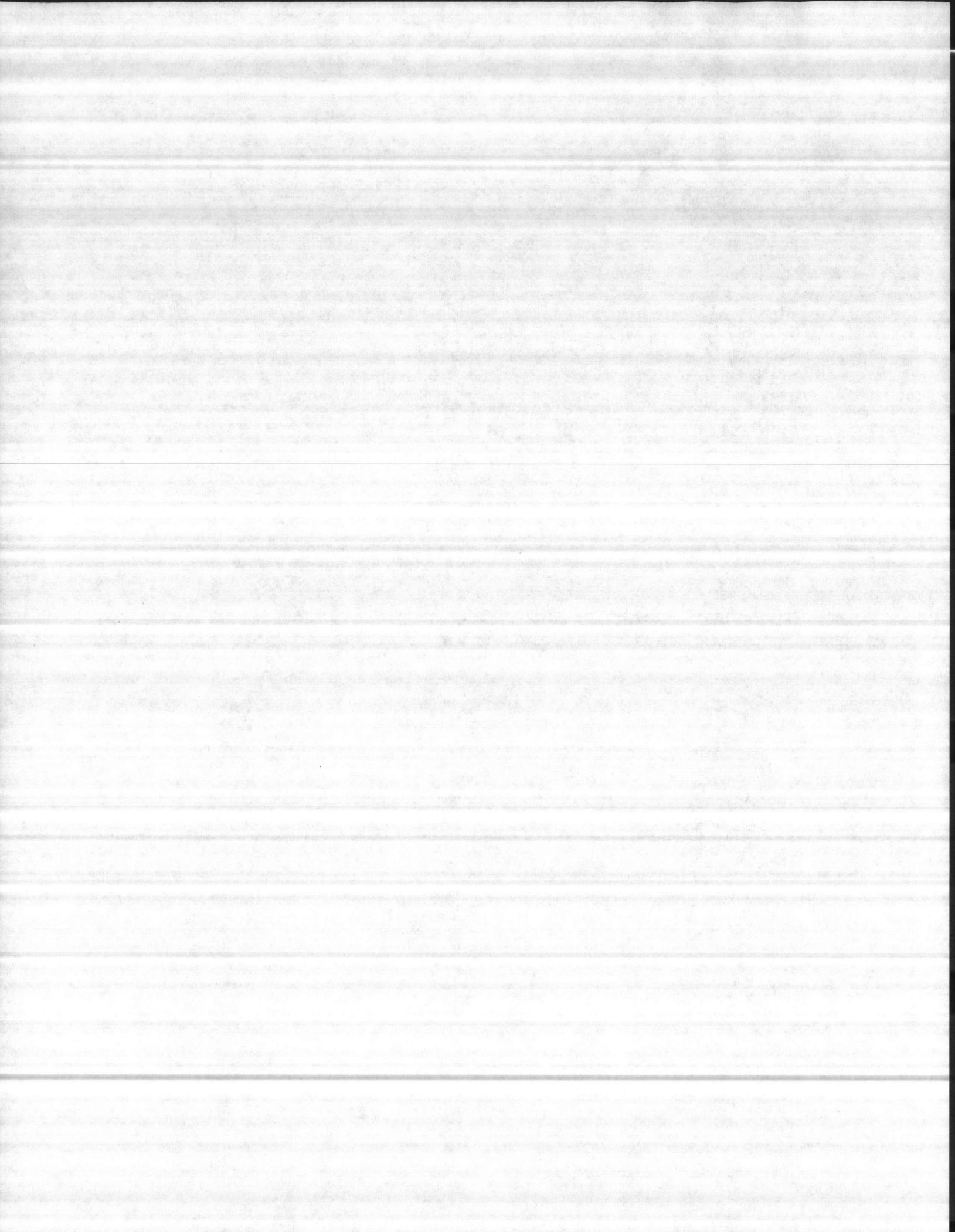
SIGNATURE
M. Brown



Well # 10
Step Test
4-7-86

Item # 1

| <u>TIME</u> | <u>STATIC</u> | <u>PUMPING LEVEL</u> | <u>PUMPING RATE</u> |
|-------------|---------------|----------------------|---------------------|
| 6:00 | 7' | 28'6" | 100 GPM |
| 6:15 | | 28'7" | " |
| 6:30 | | 28'8" | " |
| 7:00 | | 28'9" | " |
| 7:30 | | " | " |
| 8:00 | | " | " |
| 8:30 | | " | " |
| 9:00 | | 28'9" | " |
| 9:15 | | 35" | 150 GPM |
| 9:30 | | 35'3" | " |
| 9:45 | | 35'5" | " |
| 10:00 | | 35'6" | " |
| 10:30 | | " | " |
| 11:00 | | " | " |
| 11:30 | | " | " |
| 12:00 | | " | " |
| 12:15 | | 62'9" | 200 GPM |
| 12:30 | | 63'3" | " |
| 12:45 | | 63'4" | " |
| 1:00 | | 63'5" | " |
| 1:30 | | " | " |
| 2:00 | | " | " |
| 2:30 | | " | " |
| 3:00 | | " | " |
| 3:15 | | 76'11" | 250 GPM |
| 3:30 | | 77'4" | " |
| 3:45 | | 77'5" | " |
| 4:00 | | 77'5" | " |
| 4:30 | | " | " |
| 5:00 | | " | " |
| 5:30 | | " | " |
| 6:00 | | " | " |
| 6:15 | | 94'11" | 300 GPM |
| 6:30 | | 95'3" | " |
| 6:45 | | 95'5" | " |
| 7:00 | | 95'6" | " |
| 7:30 | | " | " |
| 8:00 | | " | " |
| 8:30 | | " | " |
| 9:00 | | " | " |
| 9:15 | | 104'4" | 350 GPM |
| 9:30 | | 104'6" | " |
| 9:45 | | 104'8" | " |
| 10:00 | | " | " |
| 10:30 | | " | " |
| 11:00 | | " | " |
| 11:30 | | " | " |
| 12:00 | | " | " |
| 12:15 | | 113'1" | 400 GPM |



| <u>TIME</u> | <u>STATIC</u> | <u>PUMPING LEVEL</u> | <u>PUMPING RATE</u> |
|-------------|---------------|----------------------|---------------------|
| 12:30 | 7" | 113'4" | 400 GPM |
| 12:45 | | 113'5" | " |
| 1:00 | | 113'6" | " |
| 1:30 | | 113'10" | " |
| 2:00 | | 113'10" | " |
| 2:30 | | 113'10" | " |
| 3:00 | | 113'10" | " |
| 3:15 | | 118'2" | 450 GPM |

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH WING

APPROVED ✓ _____
APPROVED _____
APPROVED _____
APPROVED _____

N62470-81-C-1644

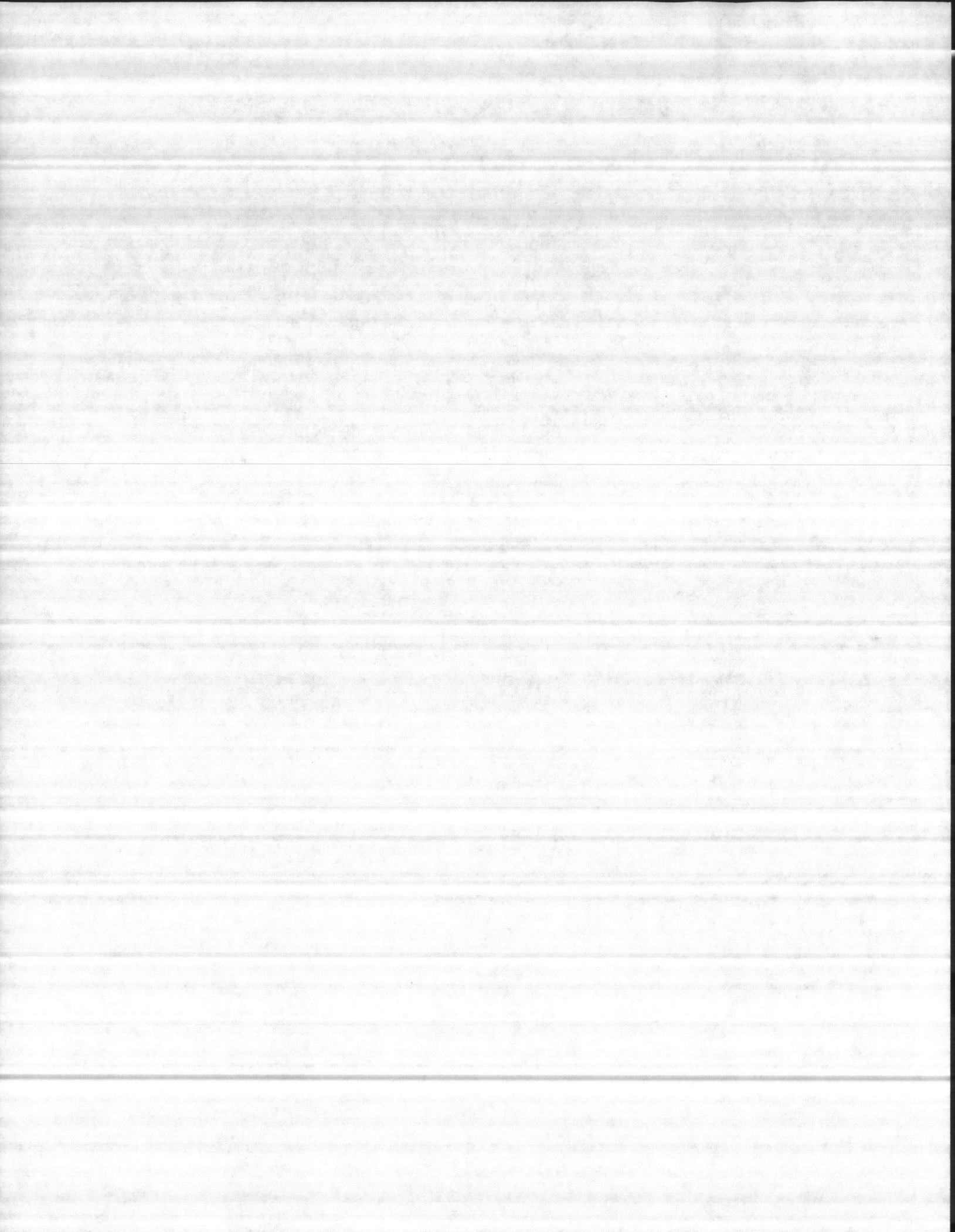
FOR OFFICER IN CHARGE OF CONSTRUCTION

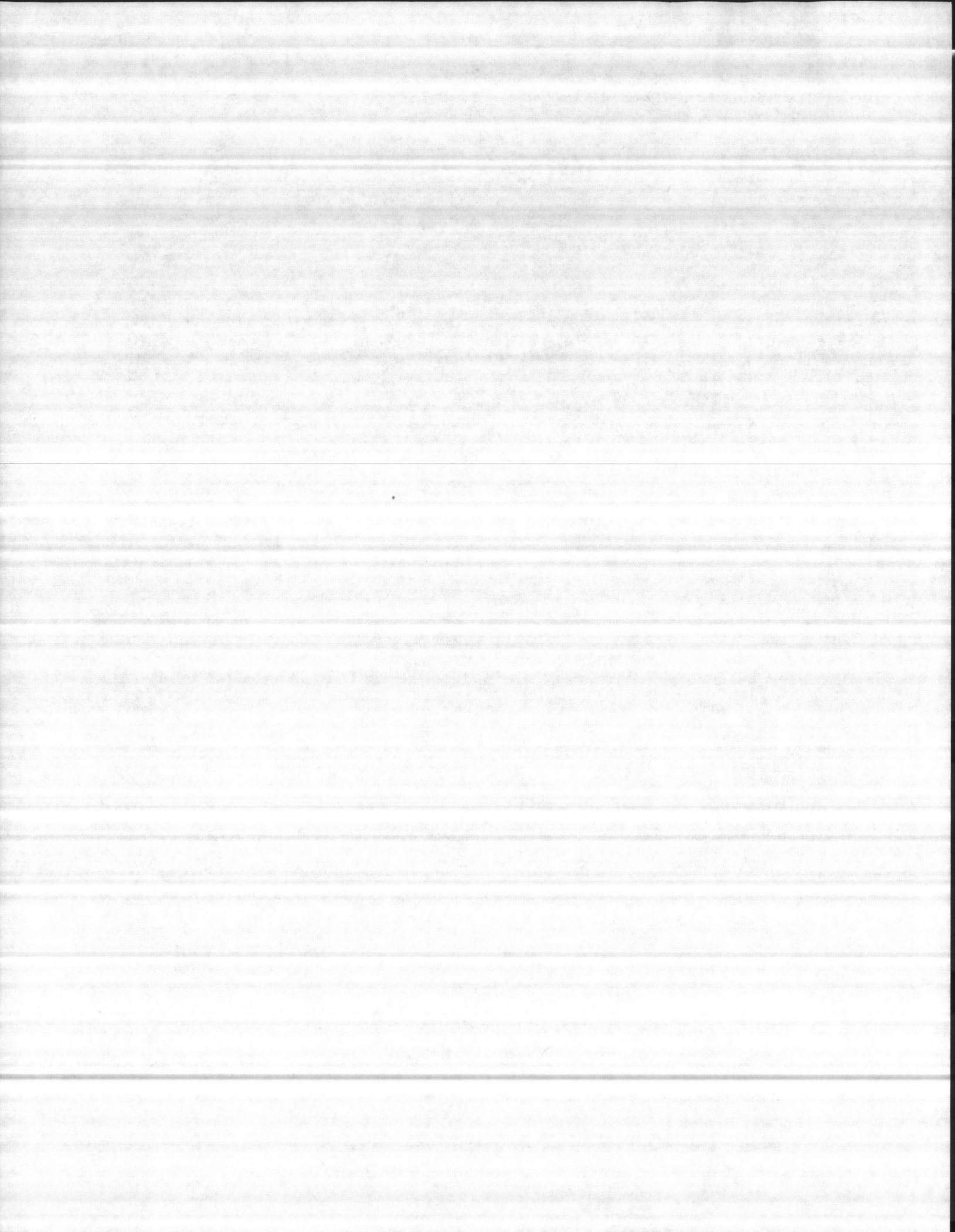
REVIEWER *[Signature]* DATE **APR 11 1986**

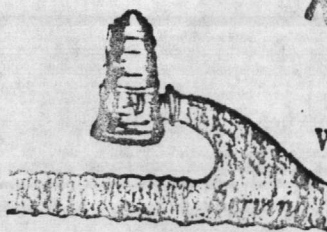
I have certified that the (material) (equipment) (work) shown in this submittal, shop drawings, catalog cuttings, etc., are proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract drawings and specifications and can be installed in the allocated space and is:

- Approved for use.
- Submitted for Government approval.
- Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. *Phil Fene* DATE **4-8-86**







R. L. MAGETTE COMPANY

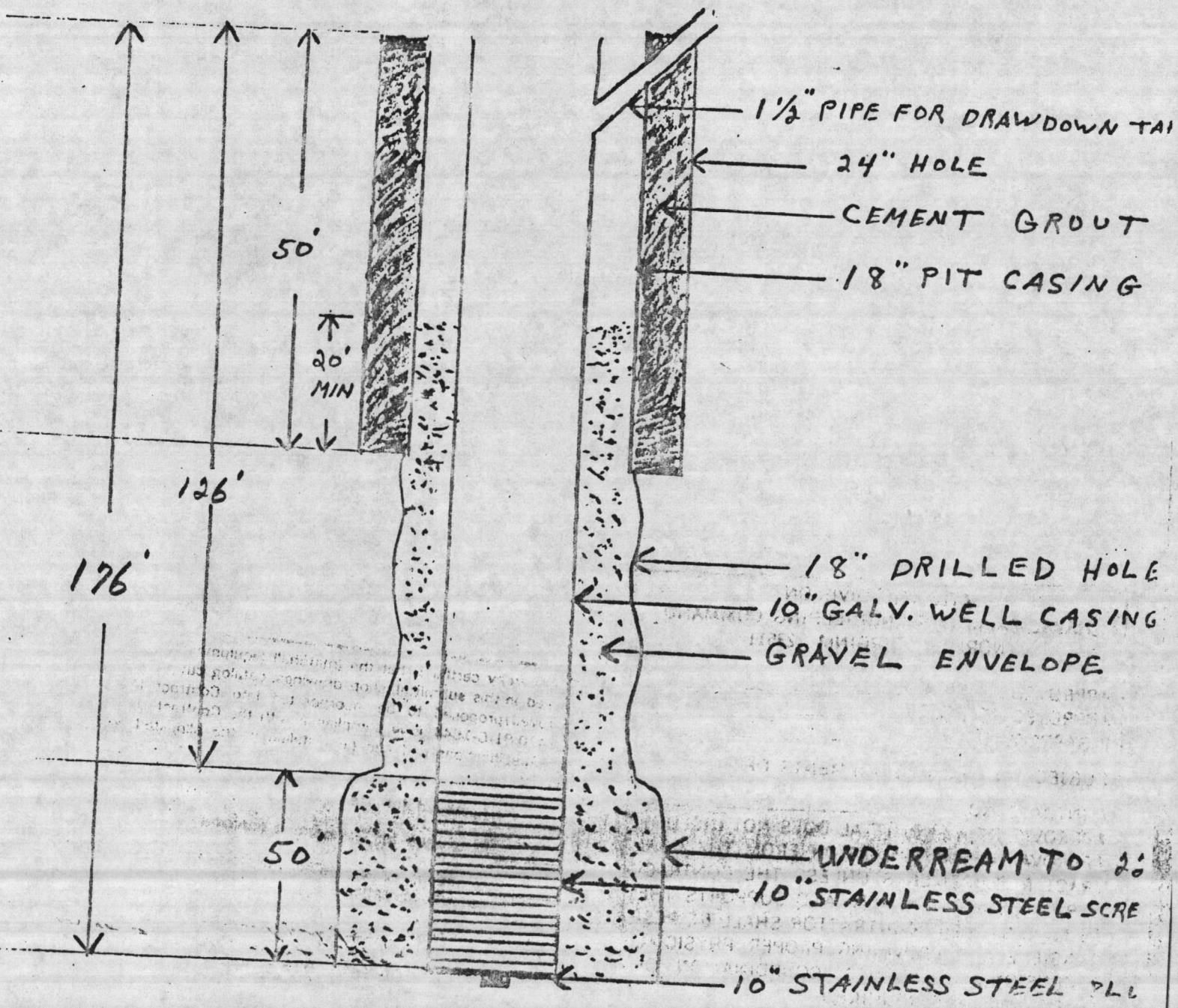
WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL
Wells, Pumps and Community Water Systems

Item #1

de Water, Virginia and Eastern North Carolina

P. O. Box 908 Phone - 804 - 357-4103
Smithfield, Virginia 23430

WELL #10



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED _____
APPROVED AS NOTED _____
DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. NG2470-81-C-1644
APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
APPROVAL OF ANY DEVIATION FROM THE CON-
TRACT REQUIREMENTS UNLESS THE CONTRAC-
TOR CALLS ATTENTION TO AND SUPPORTS THE
DEVIATION --- THE CONTRACTOR SHALL BE RES-
PONSIBLE FOR PROVIDING PROPER PHYSICAL
DIMENSIONS & WEIGHTS, COORDINATION OF
TRADES, ETC., AS REQUIRED.

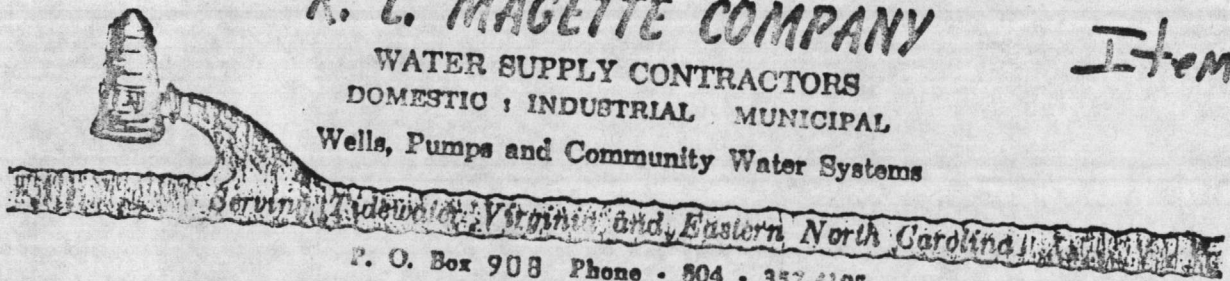
REVIEWER *M. Brown* DATE JUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

"It is hereby certified that the (material) (equipment) shown and
marked in this submittal, shop drawings, catalog cut(s), etc., and
approved/proposed to be incorporated into Contract Number
NG2470-81-C-1644 is in compliance with the Contract Drawings
and Specifications and can be installed in the allocated space,
and is:

- _____ Approved for use.
- Submitted for Government approval.
- _____ Approved for use subject to Government approval of
specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. *Phil Lee* DATE 5-30-86



R. L. MAGETTE COMPANY

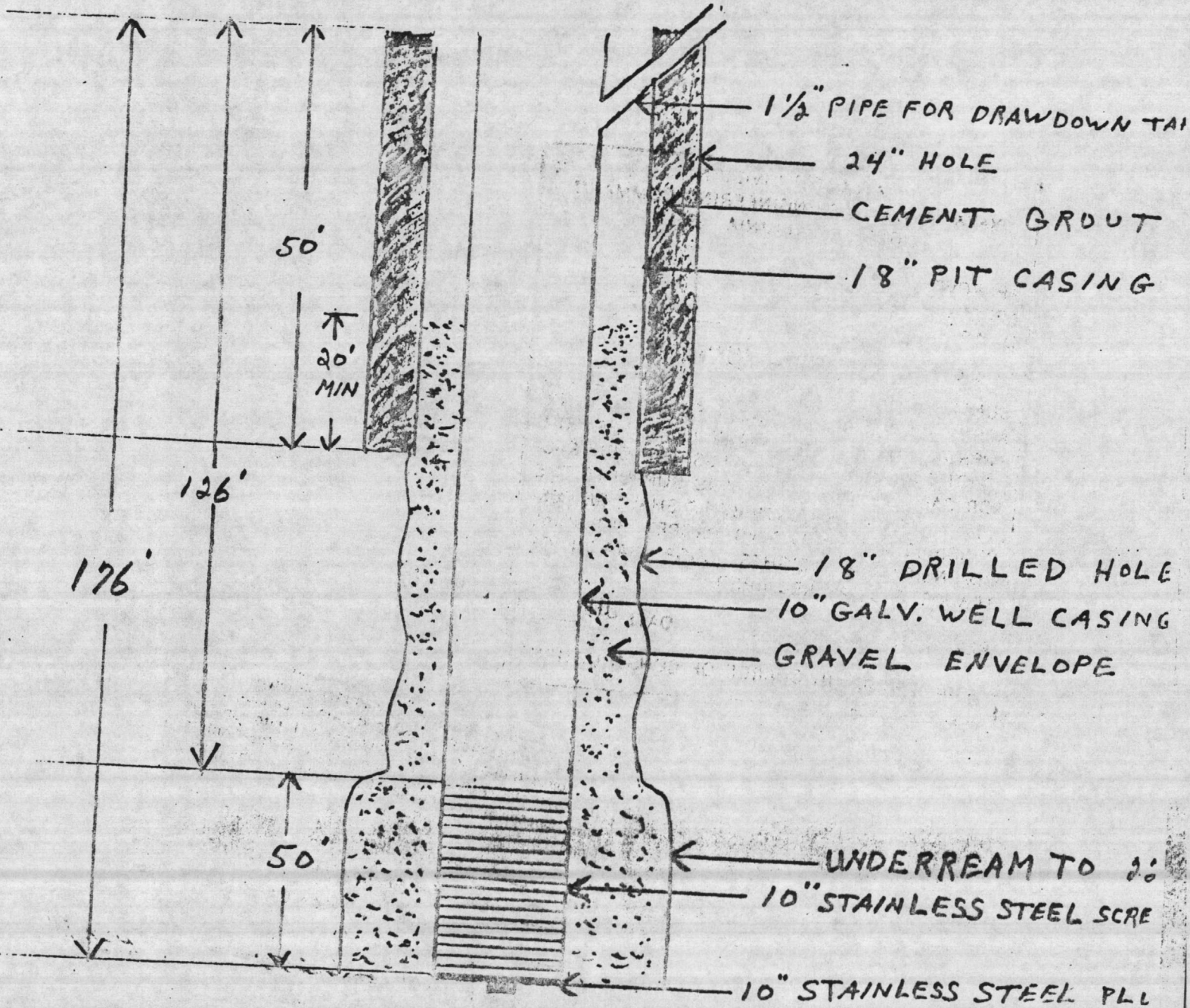
WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL
Wells, Pumps and Community Water Systems

Item #1

P. O. Box 908 Phone - 804 - 357-4105

Smithfield, Virginia 23430

WELL #10



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED
APPROVED AS NOTED
DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF
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REVIEWER [Signature] DATE JUN 9 1986

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Authorized Reviewer
Signature CQC Rep. [Signature]

DATE 5-30-86

R. L. MAGETTE COMPANY

Item #1

WATER SUPPLY CONTRACTORS

DOMESTIC ; INDUSTRIAL ; MUNICIPAL

Wells, Pumps and Community Water Systems

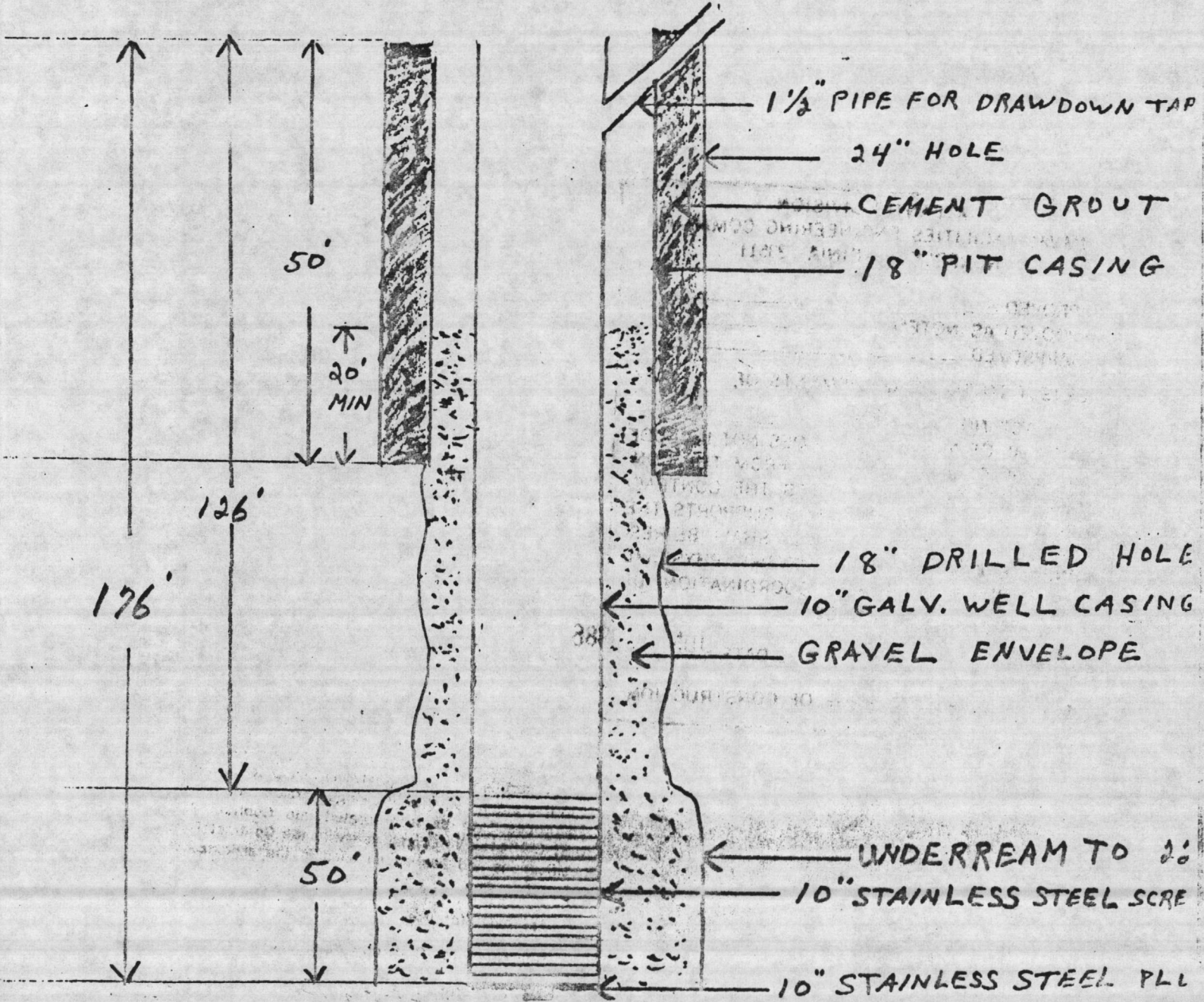


Serving Tidewater, Virginia and Eastern, North Carolina

P. O. Box 908 Phone - 804 - 357-4105

Smithfield, Virginia 23430

WELL #10



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED _____
APPROVED AS NOTED _____
DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF,
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REVIEWER *M. Brown* DATE JUN 9 1986

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specific deviation.

Authorized Reviewer _____ DATE _____
Signature CQC Rep. *Phil Reese* DATE 5-30-86

CAMP LEJEUNE No. 10 WELL

DEMING PUMP CO.

SALEM, OHIO, U.S.A.

240 HARRY PEPPER & ASSOC. INC. S.O. 1635-10 P.O. C642-0001

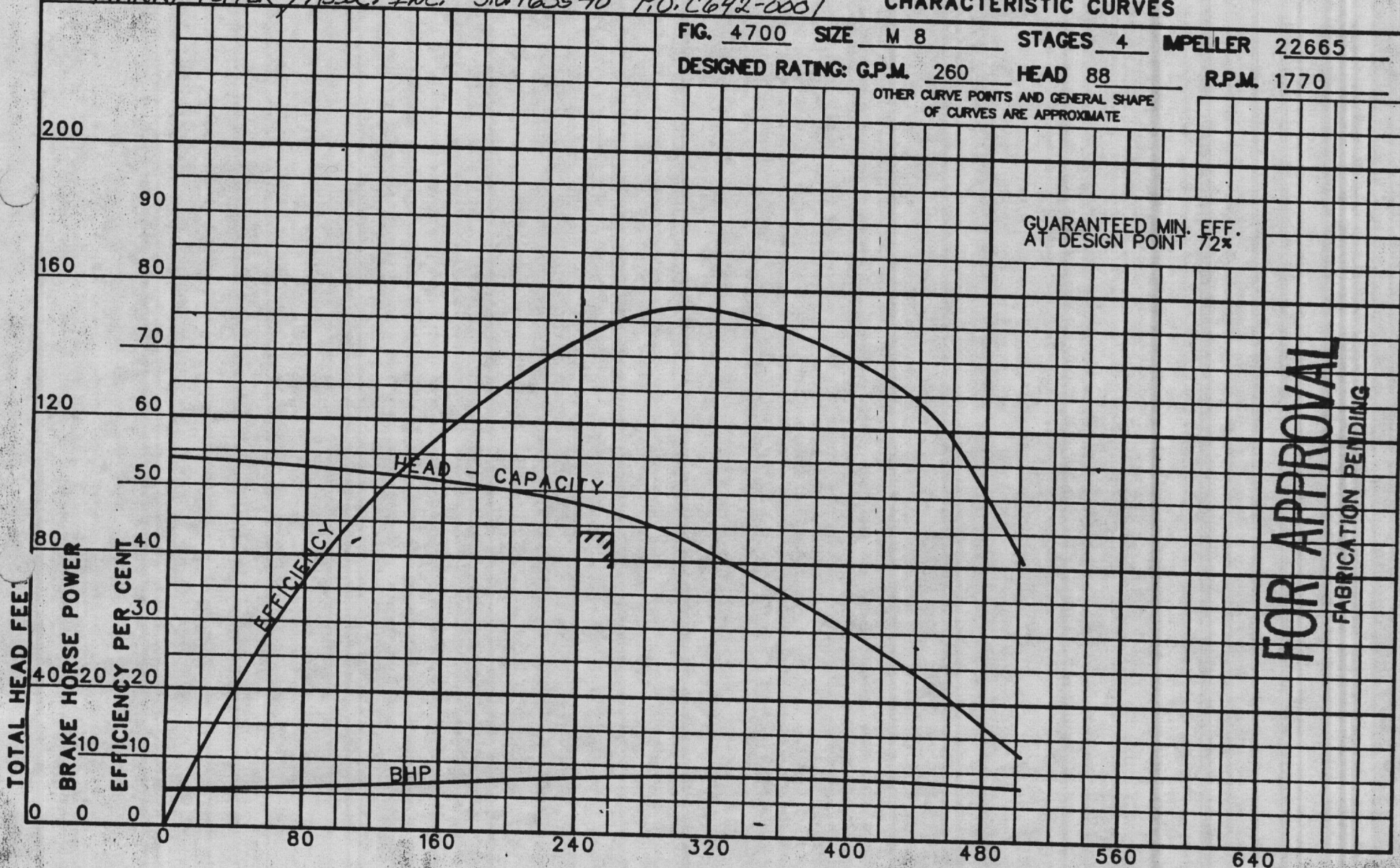
CHARACTERISTIC CURVES

FIG. 4700 SIZE M 8 STAGES 4 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 88 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE

GUARANTEED MIN. EFF. AT DESIGN POINT 72*



FOR APPROVAL
FABRICATION PENDING

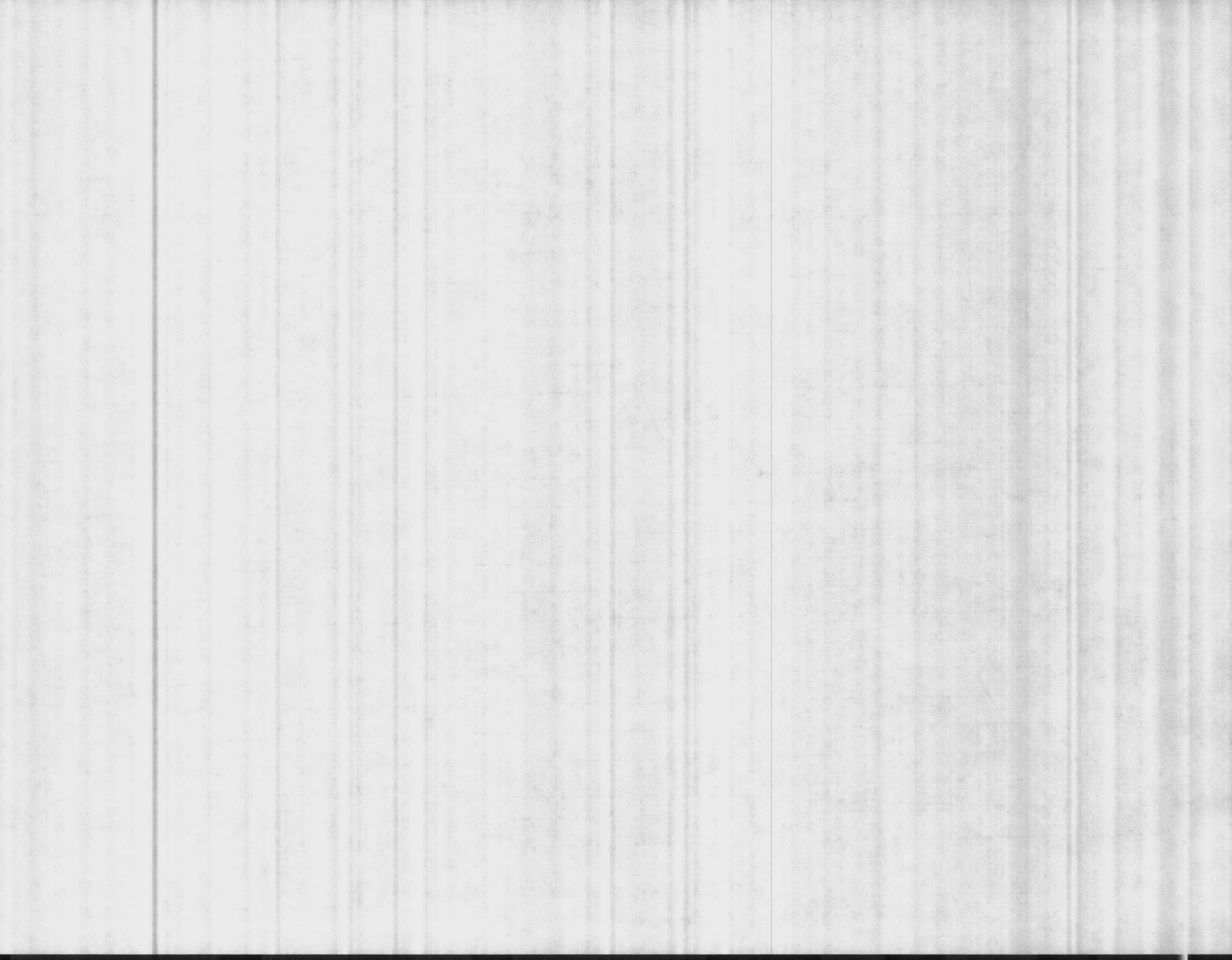
SERIAL NO. ****

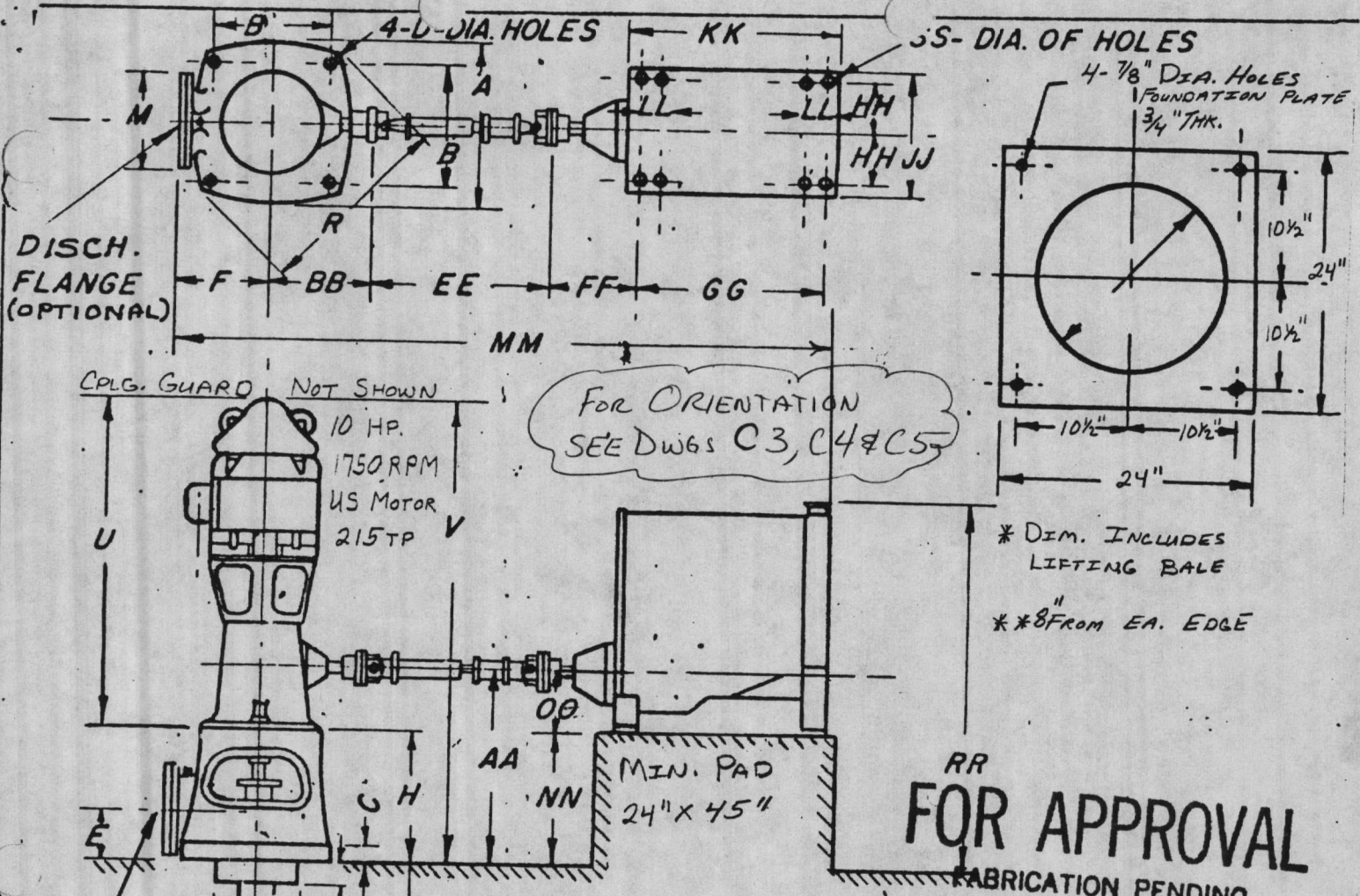
U. S. GALLONS PER MINUTE

DATE 2-19-85

IMP. DIA. 5 1/2"

NO. Q23641





DISCH. FLANGE (OPTIONAL)

CPLG. GUARD NOT SHOWN

10 HP. 1750 RPM US Motor 215 TP

MIN. PAD 24" X 45"

"N" 125 ASA DISCHARGE

5" x 1" Col. & SHAFT

4-STAGES

TT-SIZE OF SUCTION PIPE & RAINER

FOR ORIENTATION SEE DWGS C3, C4 & C5

RR FOR APPROVAL

* DIM. INCLUDES LIFTING BALE

** 8" FROM EA. EDGE

HARRY PEPPER & ASSOC. INC. S.O. 1635-10

| DIMENSIONS | | | |
|------------|------------|----|-------------|
| A | 17" | Z | 11'-0 3/8" |
| B | 14 1/2" | CS | 86'-6 3/4" |
| C | 2" | OA | 101'-0 3/8" |
| D | 7/2" | AA | 1'-10 1/4" |
| E | 6 1/2" | BB | 10 7/8" |
| F | 9" | EE | 24" |
| G | 3 3/4" | FF | 21 1/6" |
| H | 15 1/2" | GG | 29" |
| J | 9 7/8" | HH | 11 1/4" |
| M | 11" | JJ | 20" |
| N | 6" | KK | 45" |
| R | 2.3" | LL | |
| T | | MM | 7'-4 7/8" |
| U | 3'-11 1/2" | NN | 10 1/4" |
| V | 5'-3" | OO | 12" |
| W | 6 1/4" | RR | 56 1/4" * |
| X | 7 1/2" | SS | 5/8" ** |
| Y | 3'-5 1/4" | TT | 5" |

CAMP LEJEUNE No. 10 WELL

TITLE
VERTICAL TURBINE PUMP WITH COMBINATION RIGHT ANGLE GEAR DRIVE WITH ENGINE & MOTOR

DATE OF ISSUE
3-1-85

DESTROY ALL PREVIOUS PRINTS

FIG. **4700** SIZE **M 8**

DRAWING NO. **T82517**

THE DEMING CO.
 SALEM, OHIO

DATE **1-26-81** | SCALE **NONE**

