

DATE 6-19-00 ✓

PWSID 04-67-043

WELL # 699 ✓

WELL NAME Halcomb Blvd 699

BLDG. 699 ✓

CODE G

AVAILABILITY P

LOCATION Brewster Blvd

LATITUDE 34.7159 ✓

LONGITUDE -77.3679 ✓

WELL DIAMETER 10"

WELL DEPTH ~~100~~ 124'

SCREEN INTERVAL 72'-98'

YIELD 260 GPM

STATIC LEVEL 21'

PUMPING LEVEL 63'

PUMP TYPE Vertical Turbine

MOTOR HP 15

INTAKE DEPTH 75'

DESIGN CAPACITY 275 GPM x

ACTUAL GPM 277 GPM

SIZE OF CONCRETE SLAB 32 1/2" x 32 1/2"

HEIGHT OF CASING 19 1/2"

SOURCE INFORMATION GROUND WATER

Date Form Completed

M	M	D	D	Y	Y
0	1	2	6	9	5

PW/SID
0467043

Owner Assigned Source Code

Well Name (If purchase, name of system)

499 HOLCOMB BLVD 699

Code

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

G

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)

Brewster Blvd

Latitude (N)

Longitude (W)

How Determined

GPS Data

No. of Sats. Locked on

3442565

07722061

G
G=GPS
M=Map
S=Surveyed

03 Q# or DOP #

5

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

Vulnerable (VOCs) Y N

Assessment Date

ENTRY POINT INFORMATION

Use Code

Availability

Owner Assigned Entry Point Code

Entry Point Name

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

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

200

~~200~~ DCA HOLCOMB BLVD WTP

Location:

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

Sources of pollution/distance: _____

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: Elec heat

Well: Diameter: 10" Type: Drone Packed Yield (gpm): 260 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth ft. (If unknown, put 'UNK') Well depth: 108' Meter available? (Y,N)

Concrete slab adequate? (Y,N) If no, expl... well not in center Size: 12x12

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

Pumps: Capacity: GPM: 108 HP: 15 Pump intake depth: 75 Auxiliary Power? (Y,N)

Type pump: Vertical Inline Height above floor (pump/casing): 19 1/2"

Storage at well site: Elev: Hydro: Ground:

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

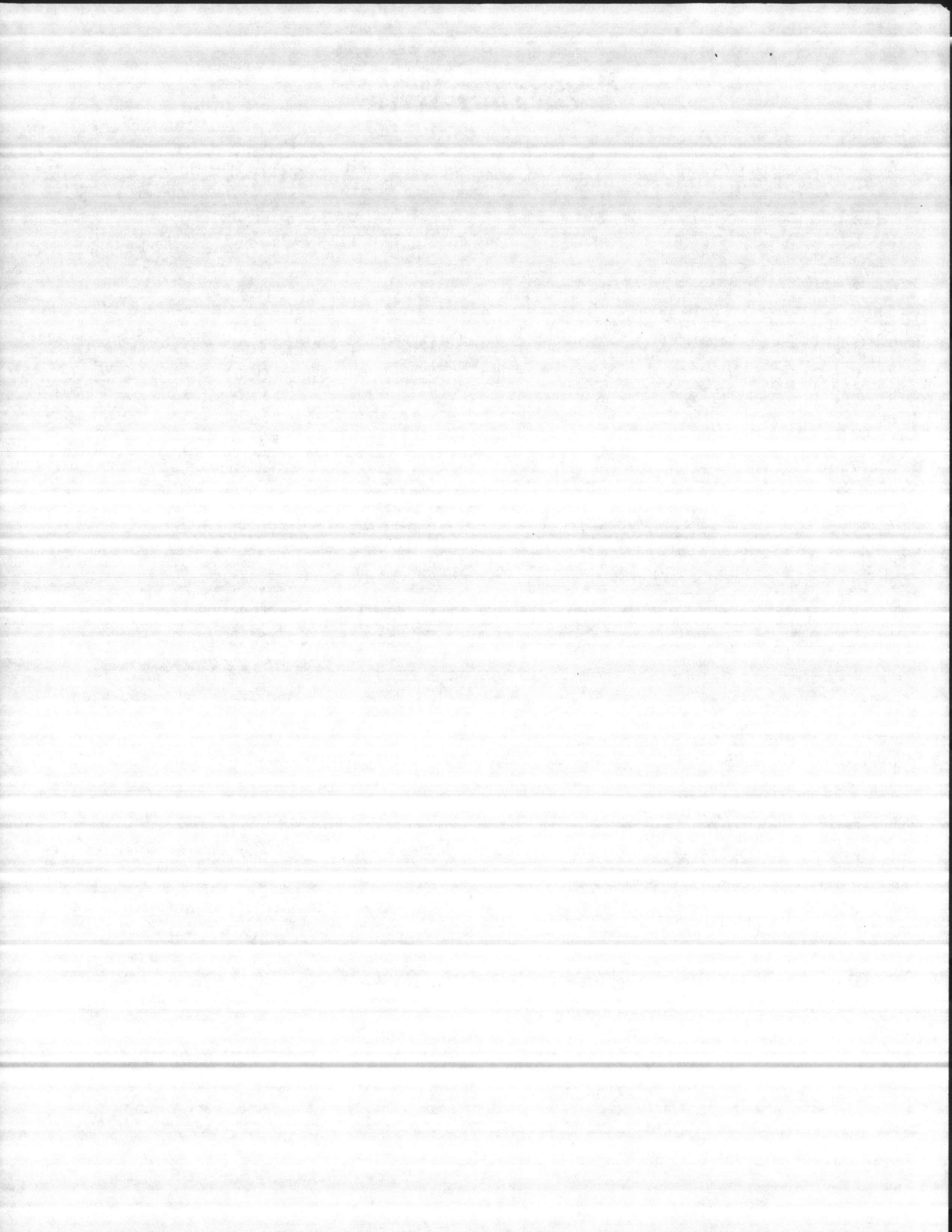
High service pumps: 1. _____ gpm _____ hp 2. _____ gpm _____ hp 3. _____ gpm _____ hp Auxiliary Power? _____ (Y,N)

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? NB670 PLANT

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

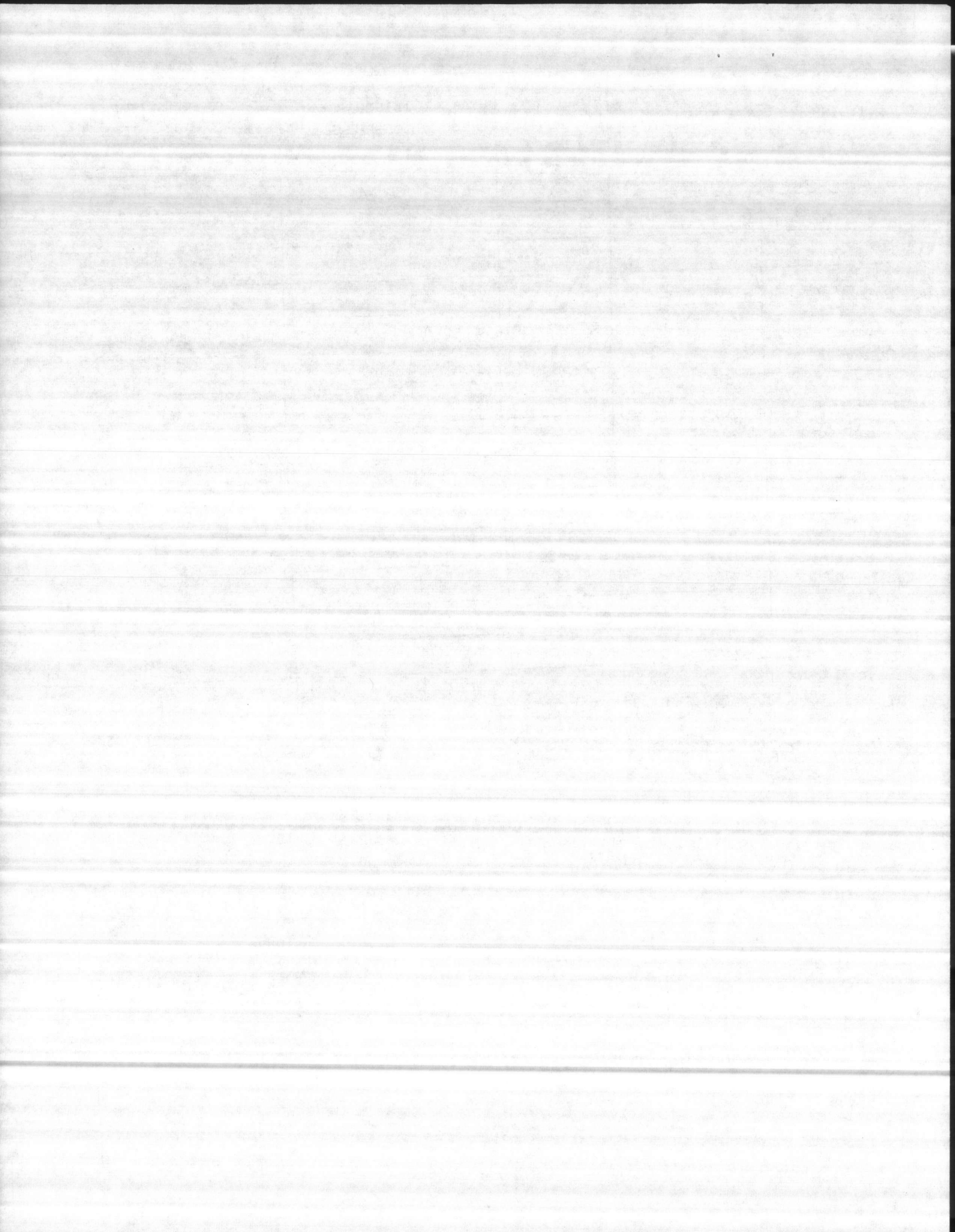
① No vent
② Seal pump base

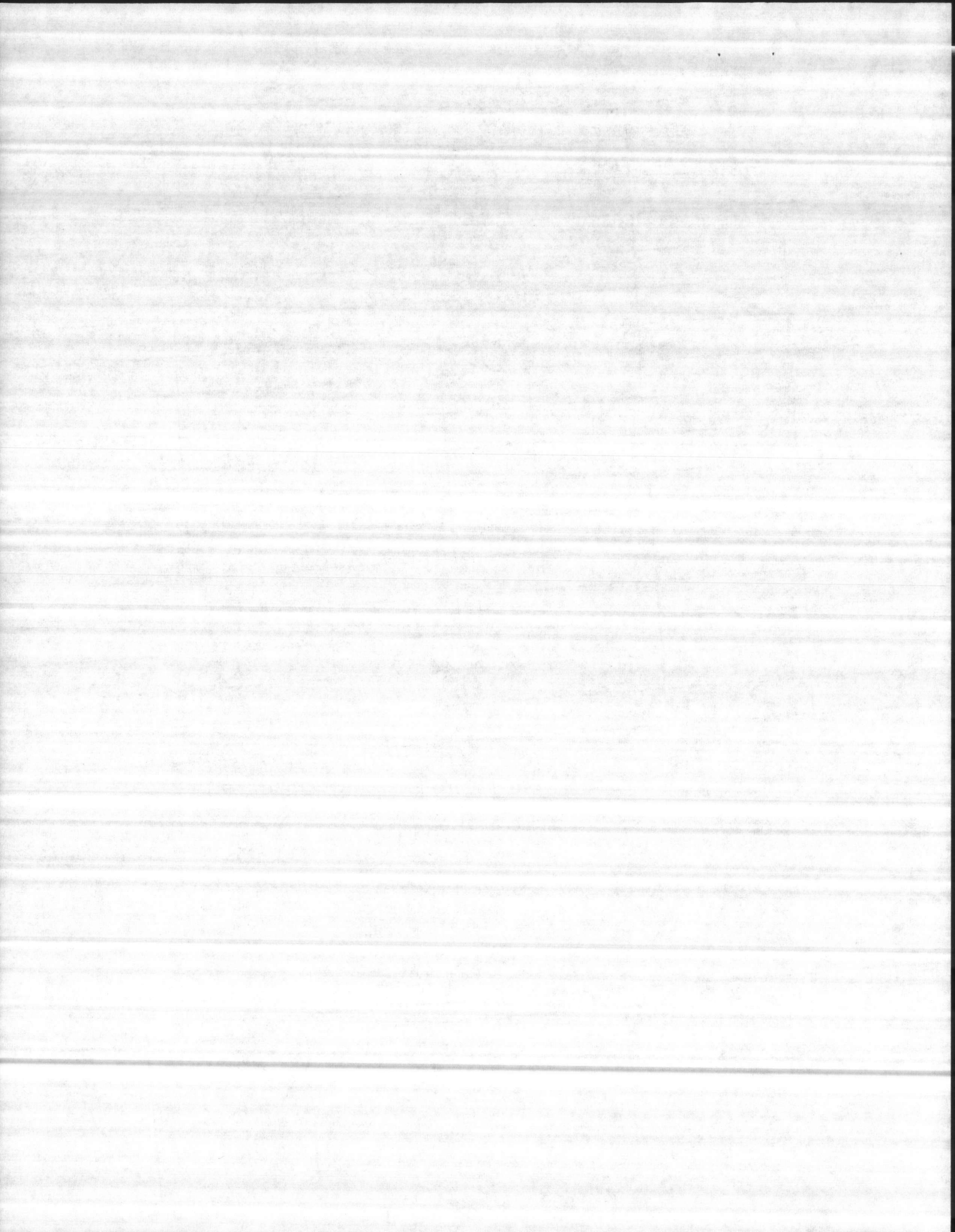


WELL NUMBER 099		BY SALAS / THOMAS			DATE 3-18-02	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	25	40	15	53	100	20
		45	20	45	140	30
		50	25	40	157	40
		52	27	35	178	50
sets at =>		55	30	30	192	60
		57	32	25	205	105
		60	35	20	222	20
		61	34	15	332	30
Left valve wide open at 38 PSI						

REMARKS D/H-70

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE





Hunt

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

CONTRACT NO
81-C-1644

TRANSMITTAL NO
108

DATE
10-16-85

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 # 2			
1	1.2.1	Shop Drawings	7	AN	HPB 10/21/85

CONTRACTOR'S COMMENTS

This Transmittal forms a part of Transmittal # 96, dated 9-20-85

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)
Phil Peew

DATE RECEIVED BY REVIEWER
10/17/85

FROM (Reviewer)
HENRY VON OESSEN & ASSOC

TO
HARRY PEPPER & ASSOC

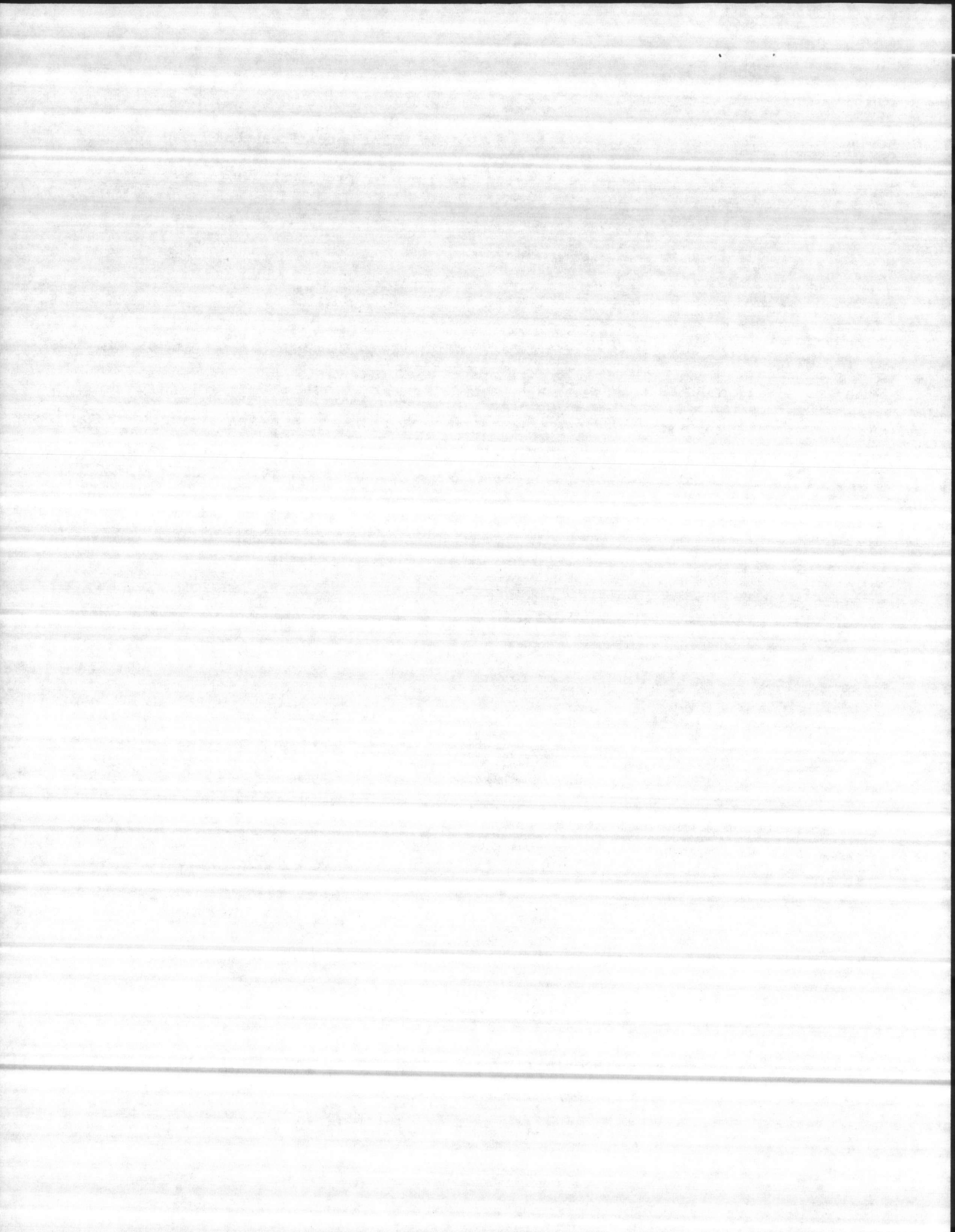
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE 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
10/21/85

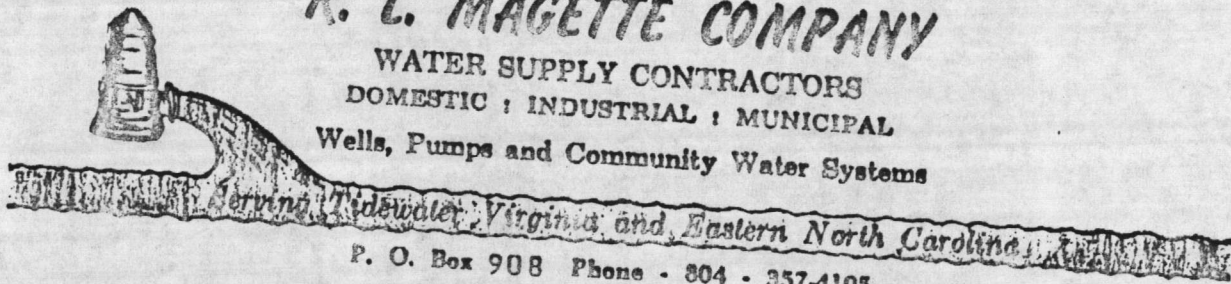
SIGNATURE
[Signature]



FCR

R. L. MAGETTE COMPANY

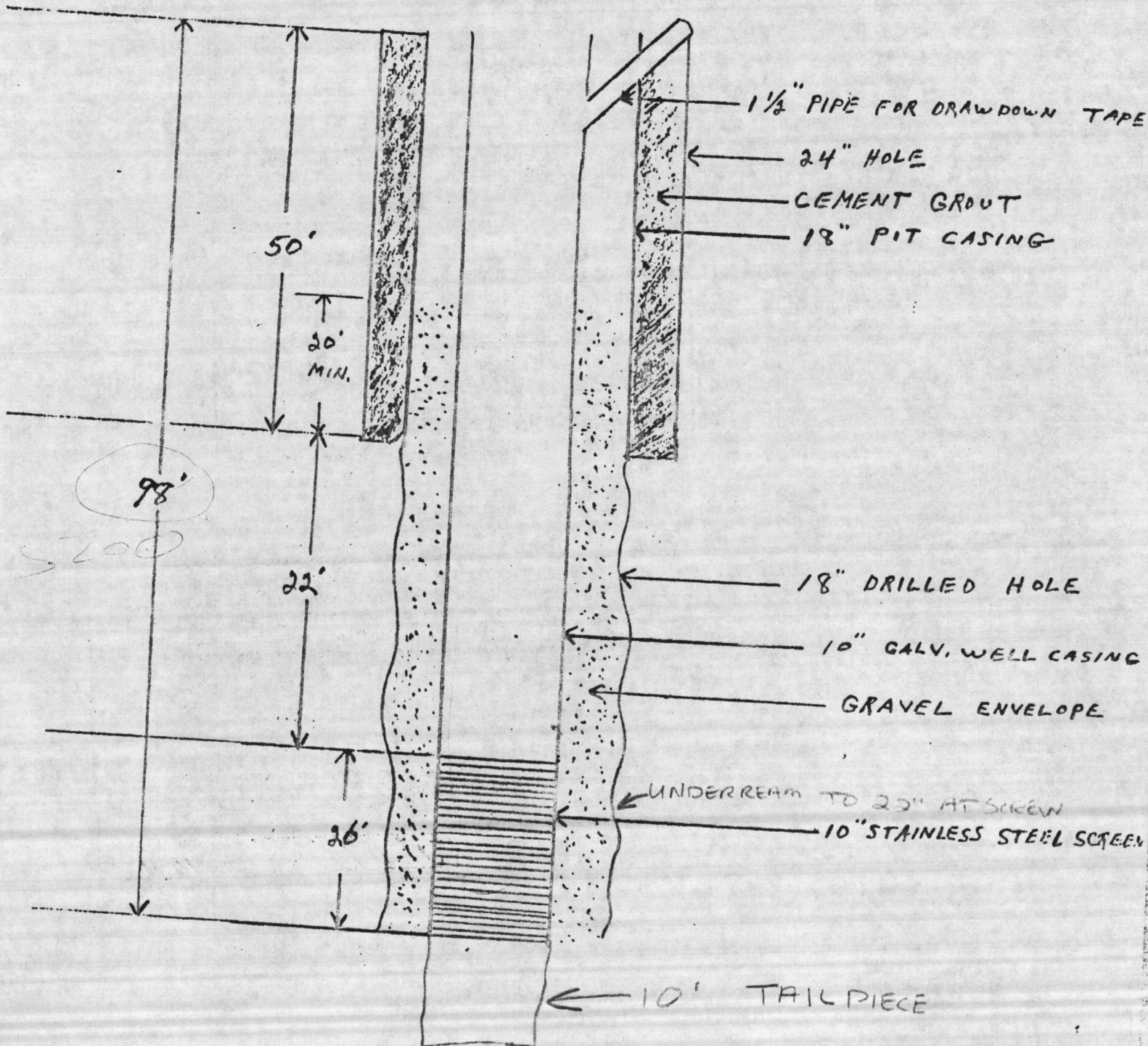
WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL
Wells, Pumps and Community Water Systems



P. O. Box 908 Phone - 804 - 357-4103

Smithfield, Virginia 23430

WELL #2



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 DEVIATION FROM THE 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 OCT 21 1985

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 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. [Signature] DATE 10-16-85

Hunt

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

CONTRACT NO 81-C-1644	TRANSMITTAL NO 96	DATE 9-20-85
--------------------------	----------------------	-----------------

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

<p align="center">CONTRACTOR USE ONLY</p> <p align="center">*List only one specification division per form.</p> <p align="center">List only one of the following categories on each transmittal form, and indicate which is being submitted</p> <p><input type="checkbox"/> Contractor Approved <input checked="" type="checkbox"/> OICC Approval <input type="checkbox"/> Deviation/Substitution For OICC Approval</p>	<p align="center">REVIEWER USE ONLY</p> <p align="center">**ACTION CODES</p> <p>A-Approved D-Disapproved AN-Approved as noted RA-Receipt acknowledged. C-Comments R-Resubmit</p>
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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 # 2			
1	2.2	Driller's Log	7	A	MB 10/3/85
2	2.2.3	Electric Log	7	A	MB 10/3/85
3	2.2	Gamma Log	7	A	MB 10/3/85
4	2.2.2	Water Anaanalysis and Sieve Analysis	7	A	MB 10/3/85
5	2.2.2	Recommendation and Data Submittal	7	A	MB 10/3/85

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: 9/24/85

FROM (Reviewer): HENRY VON OESSEN & ASSOC

TO: HARRY PEPPER & ASSOC

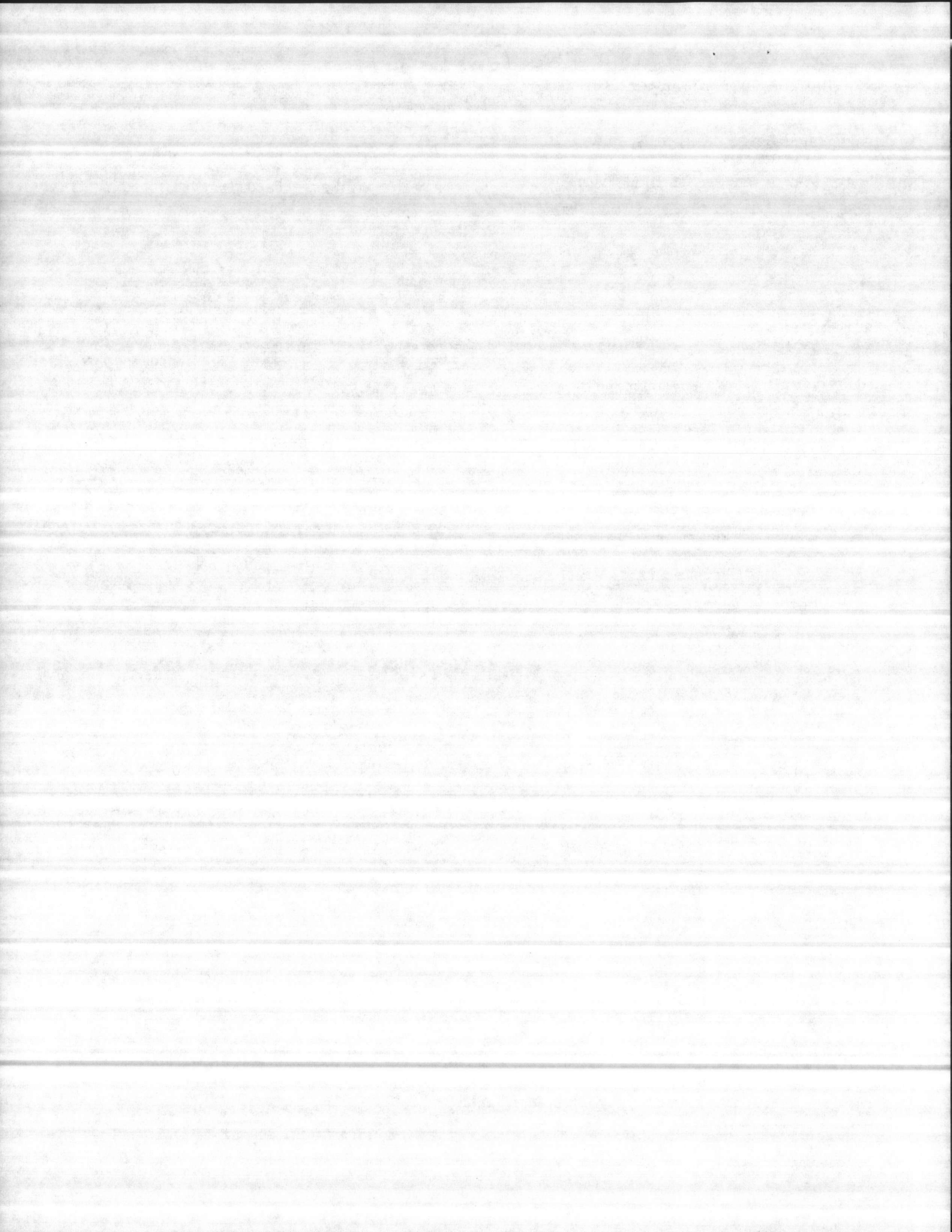
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE 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: 10/3/85

SIGNATURE: *M. Benson*



L & COMPANY
Consulting and Analytical Chemists

Item #4

ESTABLISHED 1903

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

Well #699

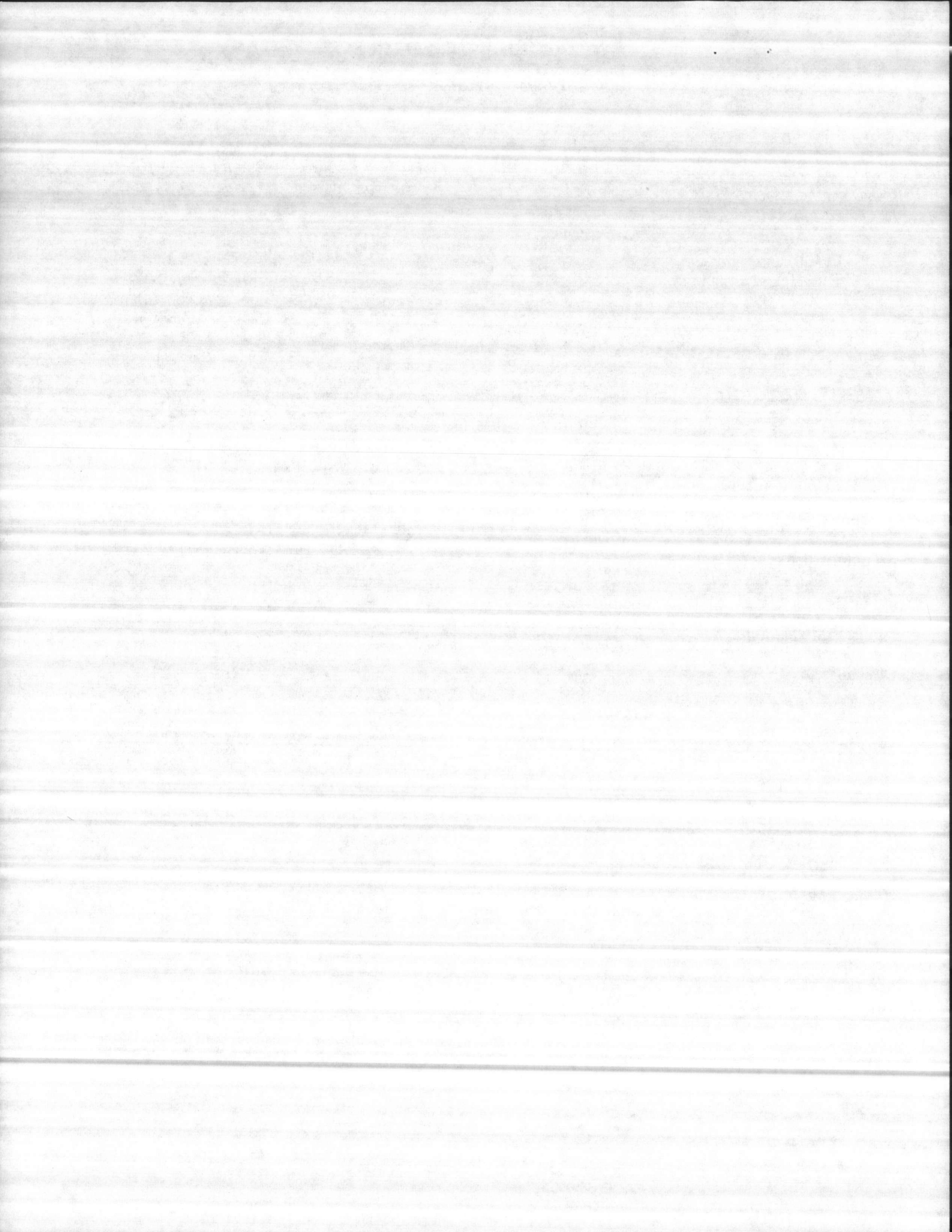
RICHARD SPIVEY, President
919-762-7082 919-762-8956
TWX 510-937-0280

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

DATE COLLECTED: 8-14-85
DATE RECEIVED: 8-14-85
COLLECTED BY: CUSTOMER
LAB ID# EW8756

SAMPLE DESCRIPTION: WELL #2 83' - 93'

<u>TESTS/UNITS</u>		<u>RESULTS</u>
DISSOLVED OXYGEN	(MG/L)	7.0
TEMPERATURE	(°F)	65
CARBON DIOXIDE	(PPM)	0
SULFIDES	(PPM)	<.1
CHLORINE DEMAND	(PPM)	1
COLOR	(APHA)	80
TURBIDITY	(NTU)	175
TOTAL ALKALINITY	(PPM)	175.2
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	156
CARBONATE	(PPM)	19.2
TOTAL HARDNESS	(PPM)	110
NON-CARBONATE	(PPM)	110
CARBONATE	(PPM)	0
TOTAL DISSOLVED SOLIDS	(PPM)	169
CONTINUED.....		



LAW & COMPANY

Consulting and Analytical Chemists

ESTABLISHED 1903

Well # 699

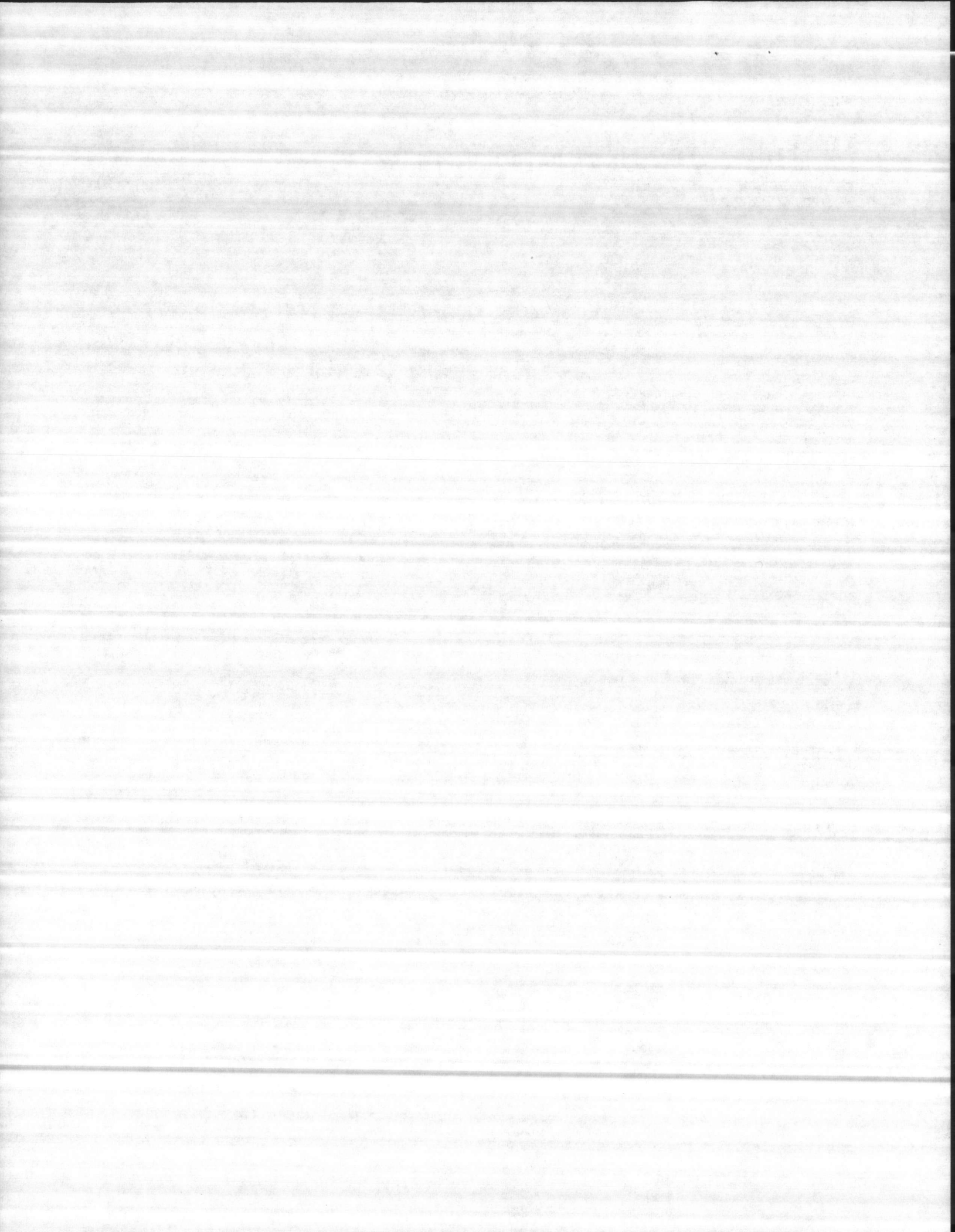
Main Office
1711 Castle Street
P.O. Box 629
Wilmington, N.C. 28402

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

<u>TESTS/UNITS</u>		<u>RESULTS</u>
SPECIFIC CONDUCTANCE	(UMHOS)	195
SULFATES	(PPM)	5
CALCIUM	(PPM)	42
MAGNESIUM	(PPM)	1.2
SODIUM	(PPM)	8.5
POTASSIUM	(PPM)	1.6
CHLORIDE	(PPM)	11.7
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	2.18
MANGANESE	(PPM)	.02
SILICON	(PPM)	2.28
FLOURIDES	(PPM)	.29
pH		8.0

CHEMIST Jolly Redman

TOTAL CHARGES \$180.00



HSSC

HOWARD SMITH SCREEN COMPANY



A Halliburton Company

1201 SAWYER ST. ♦ P.O. BOX 666 ♦ (713) 869-5771 ♦ TELEX: 77-4667 ♦ HOUSTON, TEXAS 77001

QUOTATION

STANCLIFF RIBBED WIRE WRAPPED SCREENS FOR OIL AND WATER WELLS

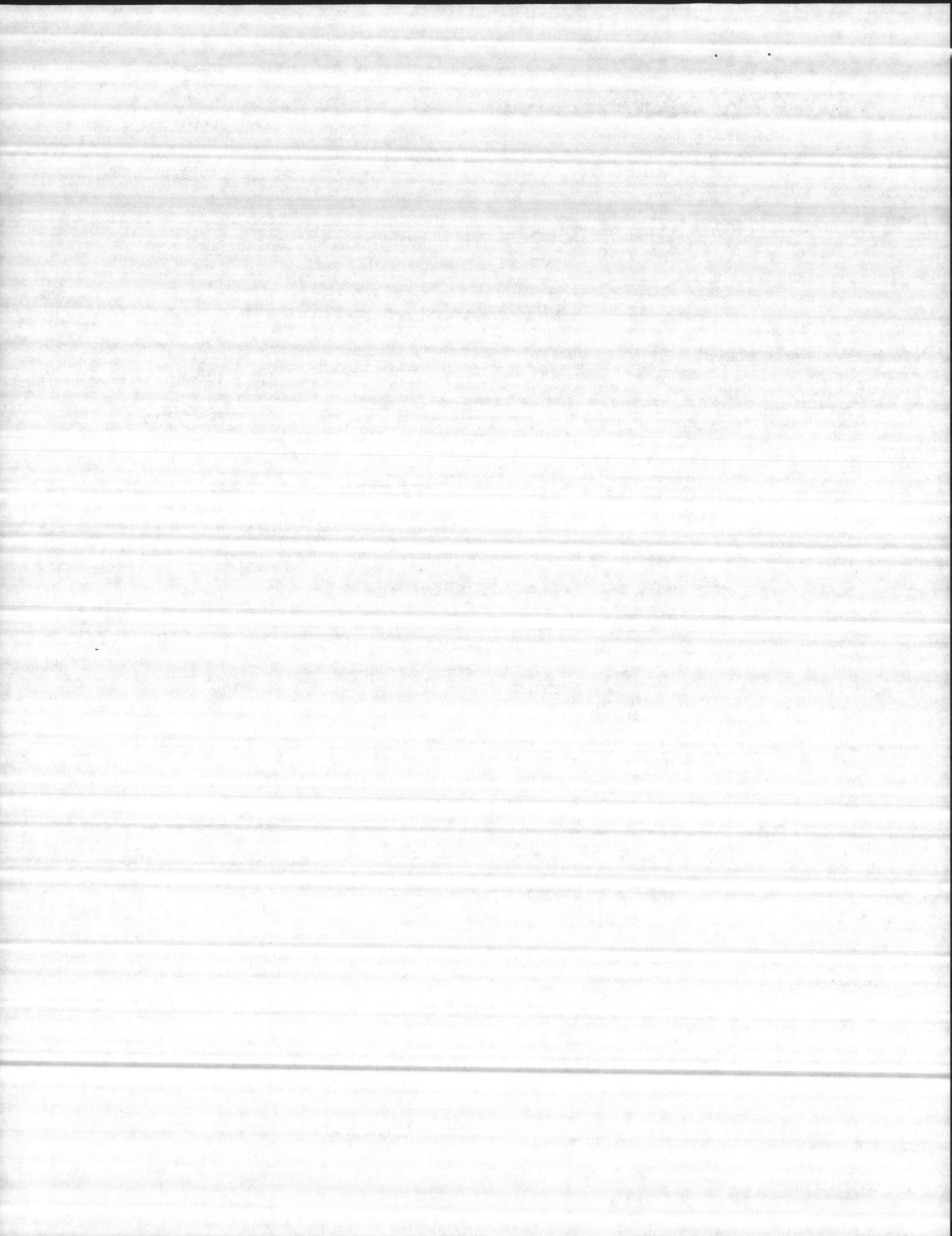
SIEVE ANALYSIS

NAME MAGETTE WELL & PUMP DEPTH 75-95 MATERIAL _____
LOCATION _____ WELL NO. #2

SIEVE OPENINGS - INCHES	RETAINED WTS.		TOTAL %		REMARKS
	GRAMS	%	CUMULATIVE RETENTION	PASSED	
020	1.0	5.15	5.15		
016	1.2	6.18	11.33		
014	1.7	8.76	20.09		
012	1.9	9.79	29.88		
010	2.8	14.43	44.31		
008	2.4	12.37	56.68		
006	5.5	28.35	85.03		
004	2.0	10.30	95.33		
003	.8	4.12	99.45		
PAN	.1	.55	100.00		
TOTALS	19.40	100.00			

BY JIM JACKSON

DATE 8/85





HARRY PEPPER & ASSOCIATES, INC.

Item #5

ENGINEERING CONTRACTORS

September 20, 1985

Henry Von Oesen
611 Princess St.
Wilmington, N.C. 28402

RE: N62470-81-C-1644
Expansion of Holcomb Blvd.
Water Treatment Plant
Camp Lejeune, NC 28542
Well # 2

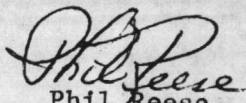
Gentlemen:

We are enclosing six (6) 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'. Water samples were taken at the 90' level.

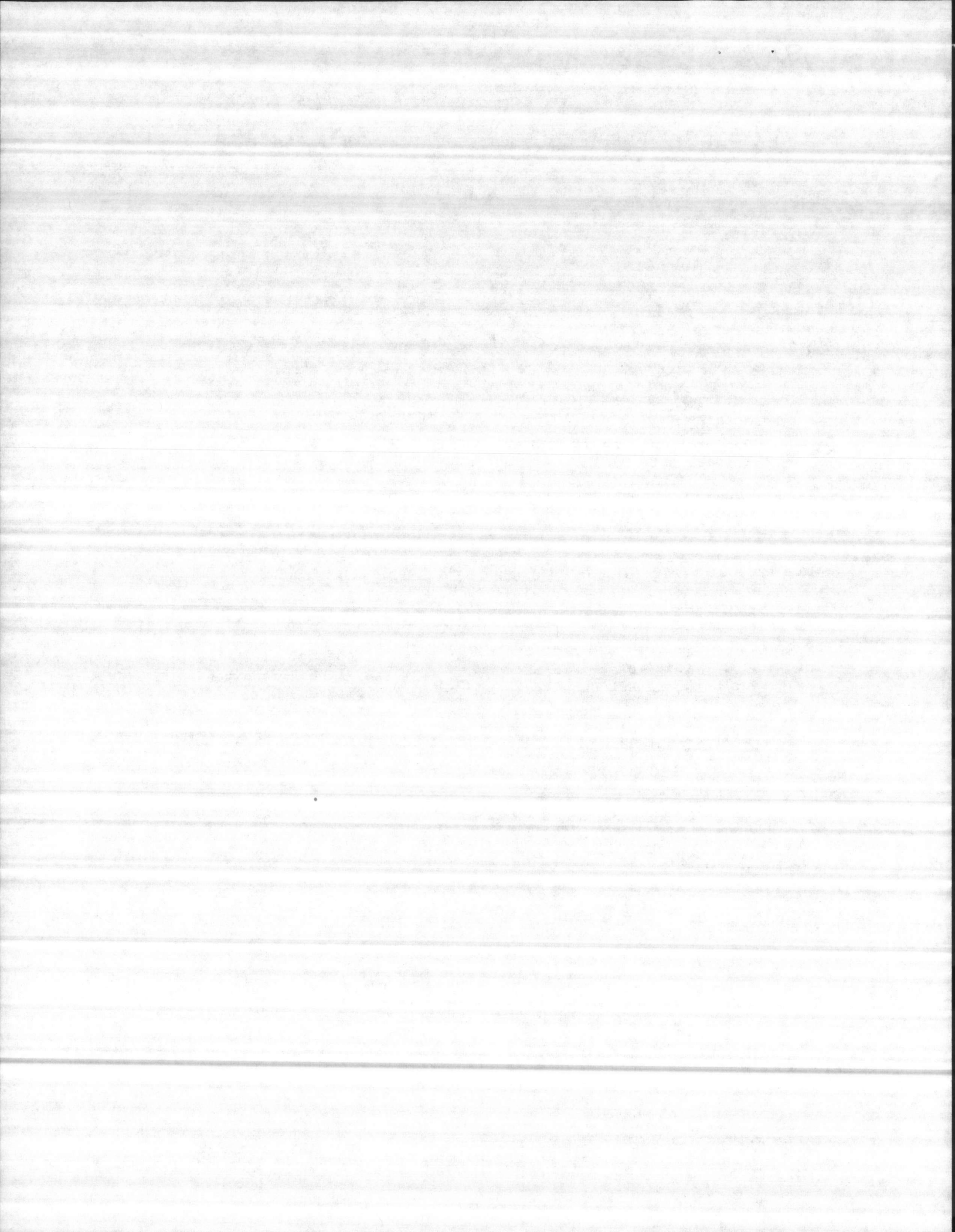
We recommend a line of .030-slot stainless steel screen set at the 72' to 98' level for a total of 26' VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well may yeild 260 GPM.

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
CQC Officer

Enclosures



Item #1

DRILLERS LOG CAMP LEVEUNE WELL #2

DEPTH OF SAMPLE

0	-	45 FT.	WHITE CLAY AND FINE SAND
45	-	70 FT.	FINE SAND
70	-	125 FT.	LIMESTONE AND SAND
125	-	150 FT.	FINE SAND
150	-	215 FT.	GREEN CLAY AND FINE SAND
215	-	230 FT.	GREEN CLAY AND SHELLS
230	-	250 FT.	GREEN CLAY AND FINE SAND

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED _____
 APPROVED AS NOTED _____
 DISAPPROVED _____

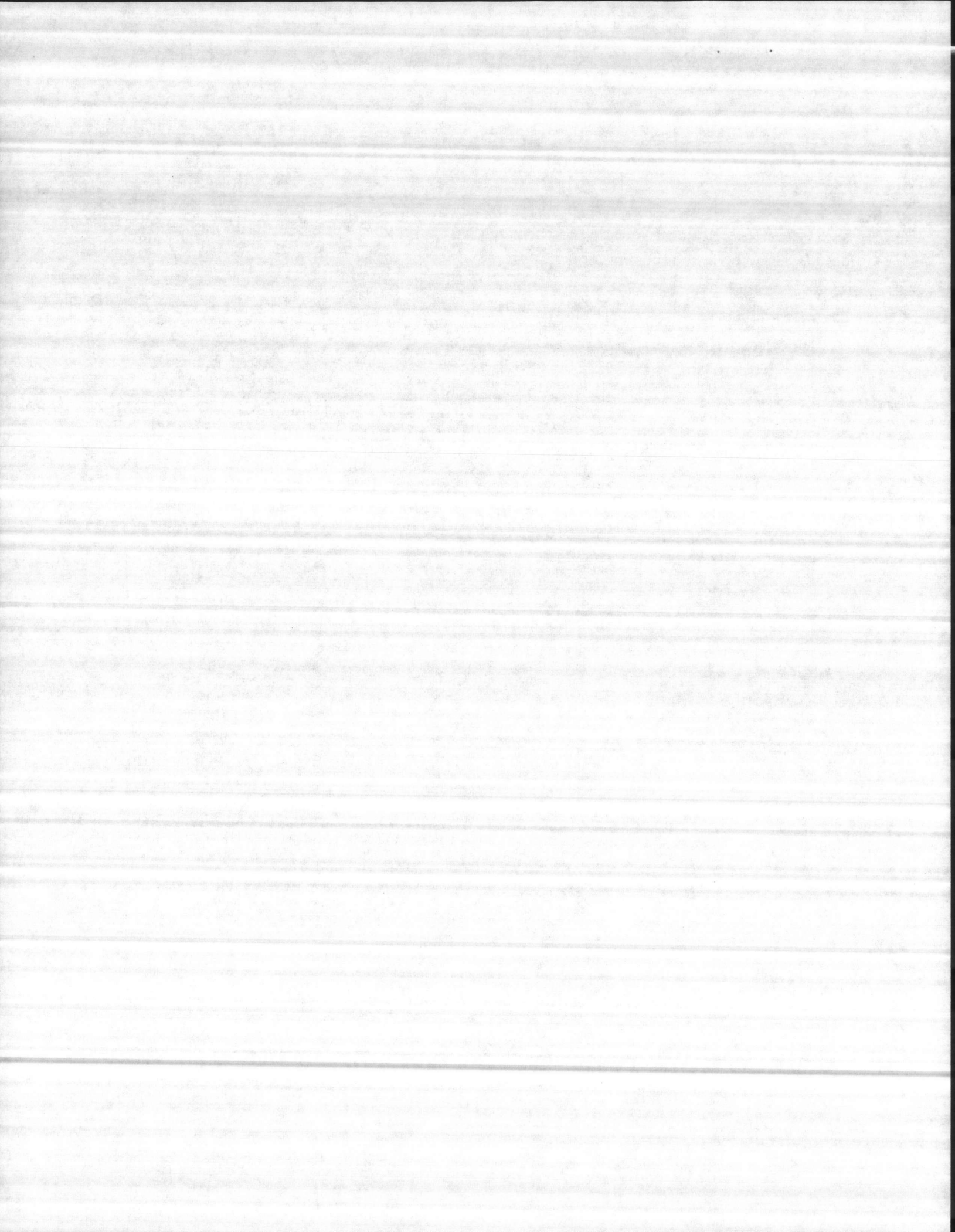
SUBJECT TO THE REQUIREMENTS OF
 CONTRACT NO. N62470-81-C-1644
 APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
 APPROVAL OF ANY DEVIATION FROM THE CON-
 TRACT REQUIREMENTS UNLESS THE CONTRAC-
 TOR CALLS ATTENTION TO AND SUPPORTS THE
 DEVIATION --- THE CONTRACTOR SHALL BE RES-
 PONSIBLE FOR PROVIDING PROPER PHYSICAL
 DIMENSIONS & WEIGHTS, COORDINATION OF
 TRADES, ETC., AS REQUIRED.

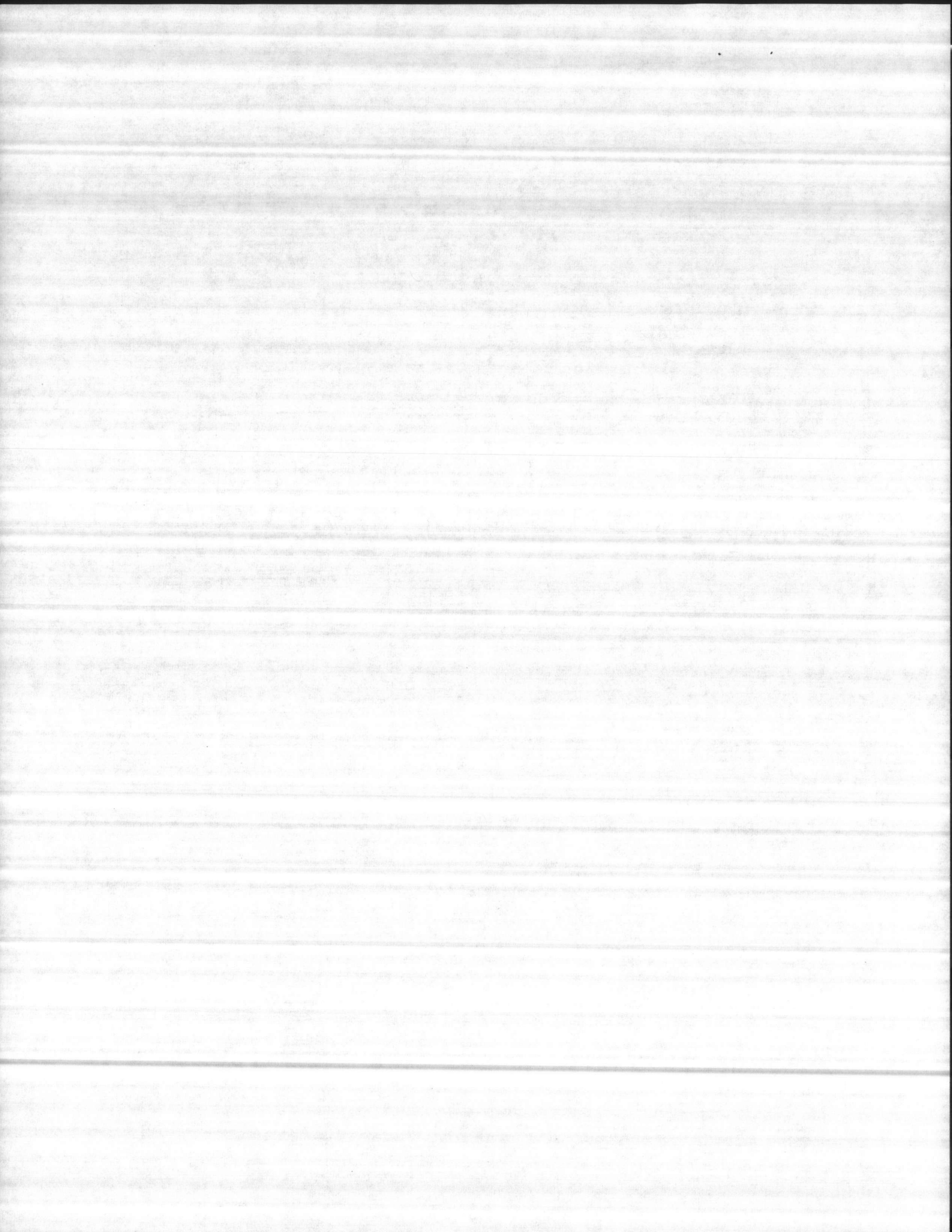
REVIEWER M. Burns DATE OCT 3 1985
 FOR OFFICER IN CHARGE OF CONSTRUCTION

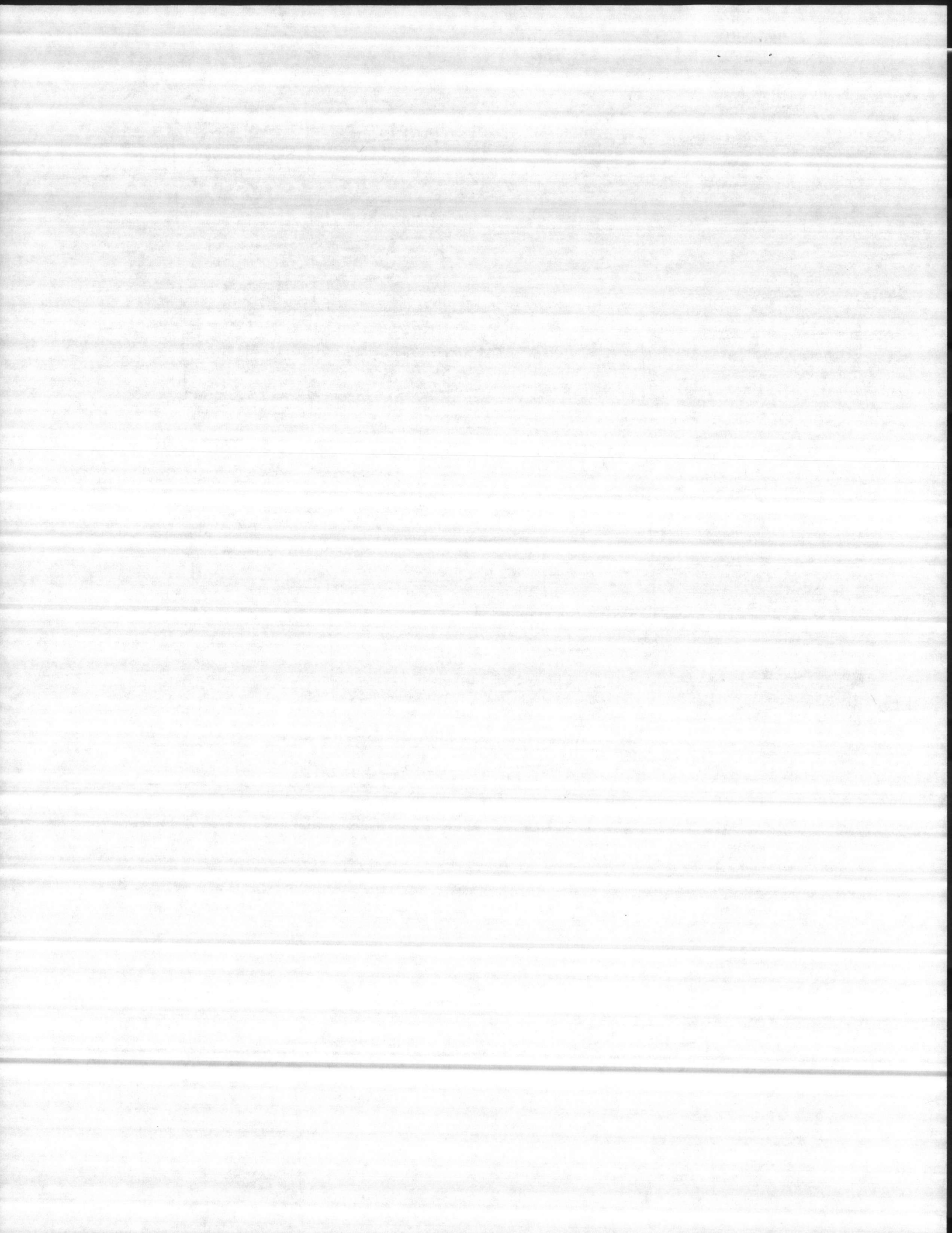
It is hereby certified that the (material) (equipment) show
 marked in this submittal, shop drawings, catalog cut (s), etc.
 approved/proposed to be incorporated into Contract N.
 N62470-81-C-1644 is in compliance with the Contract D
 and Specifications and can be installed in the allocated
 and is:

- 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 9-20-85



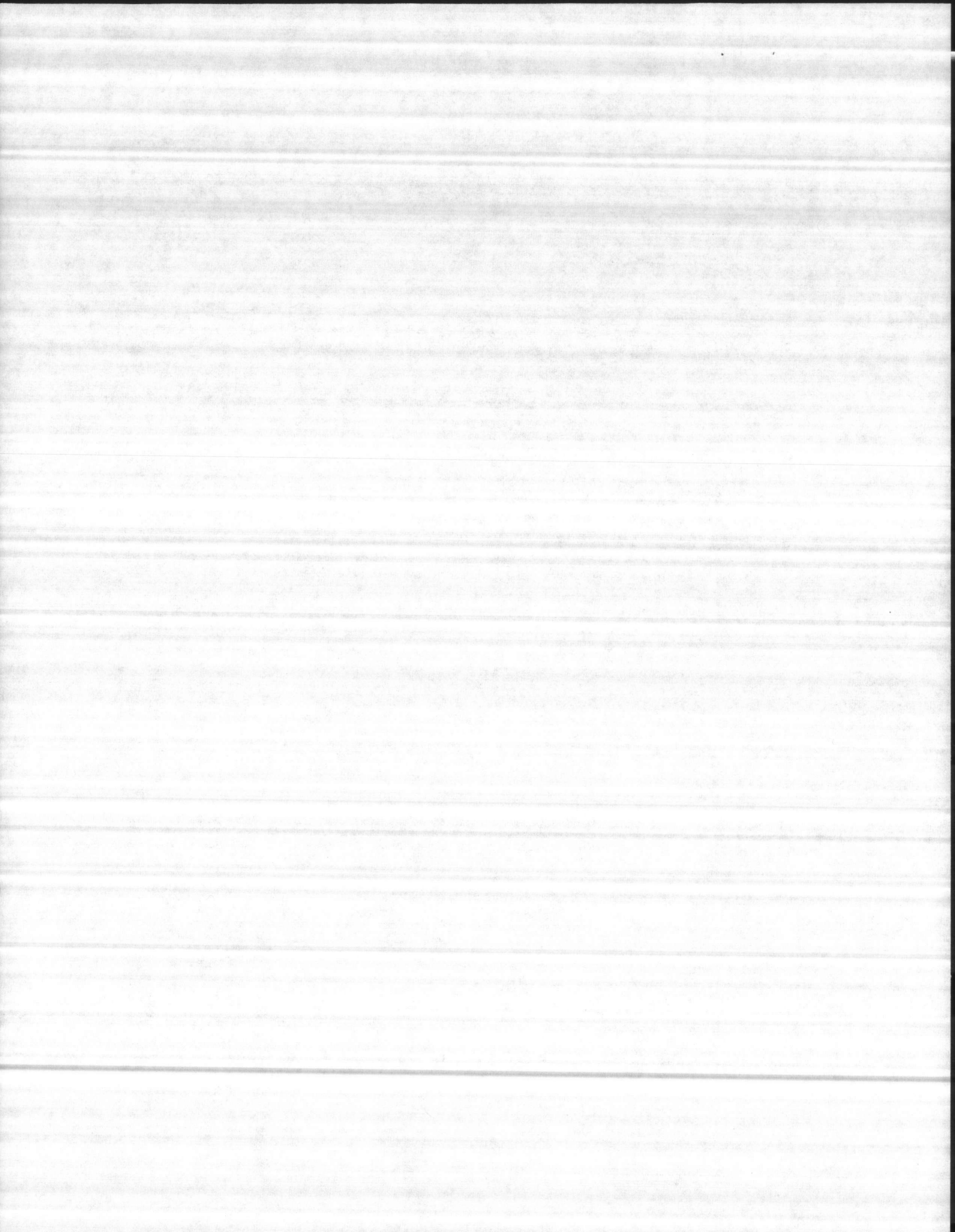




12-8-93

This pump was not supply
as requested a 5 line
5 stage was used with
1" shaft 10' tail piece 5" col

267 GPM at 35 PSI





Pump and Lighting Company

ENGINEERED PRODUCTS DIVISION

315 9TH STREET, S.E. . P.O. BOX 2504 . HICKORY, N.C. 28601

PHONE: 704-324-9705 FAX: 704-324-4365

JON
4793

October 6, 1993

Mr. Stanley Miller
c/o Commanding General
Attention: Base Maintenance Division
B1N 1-83 Marine Corps Base
PSC Box 20004
Camp Lejeune, NC 28542-0004

Reference: Well 699

Dear Stanley:

We recommend the Fairbanks-Morse Figure 7000 Model 8M 5 stage vertical turbine pump bowl assembly for replacement of the existing Crane Deming bowl assembly. This would be adapted to your existing column and shaft.

Your cost is.....\$2471.00

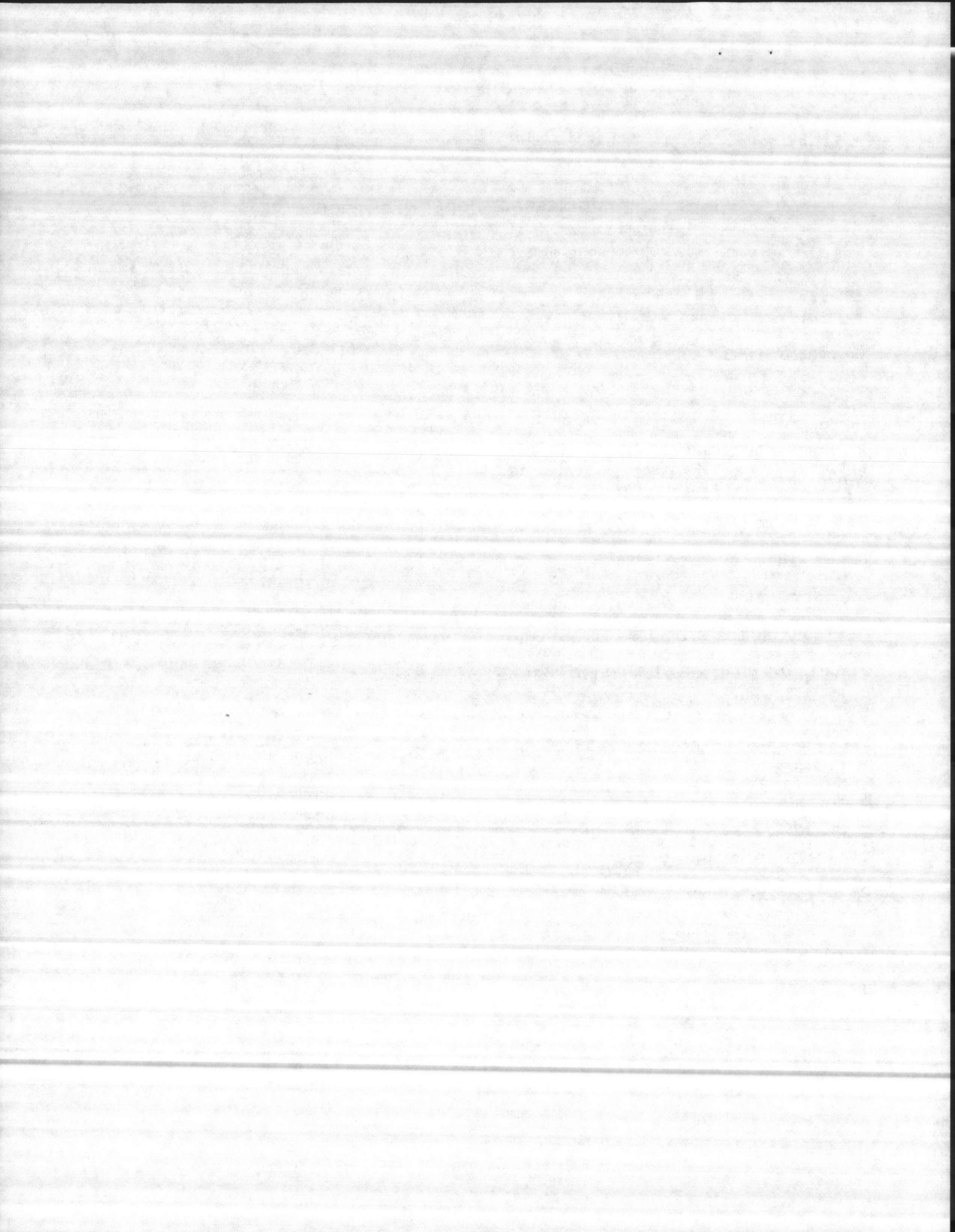
The price includes freight to the jobsite, the price does not include any taxes or other accessories.

Best regards,

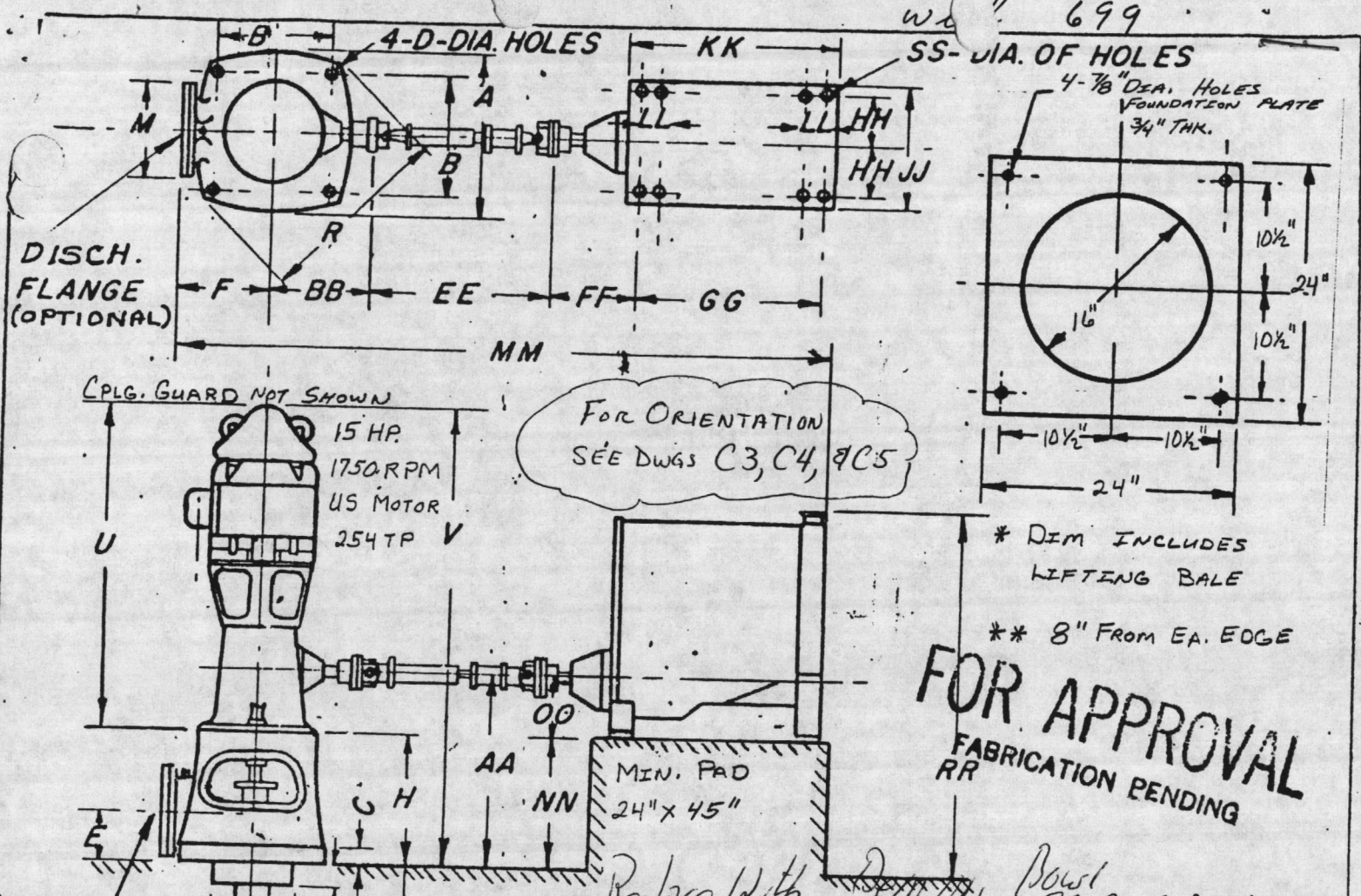
PUMP AND LIGHTING COMPANY
ENGINEERED PRODUCTS DIVISION

N.F. "Pete" Lowe
Industrial Sales

PL/jl



W.D. 699



HARRY PEPPER & ASSOC. INC. S.O. 1635-03

DIMENSIONS

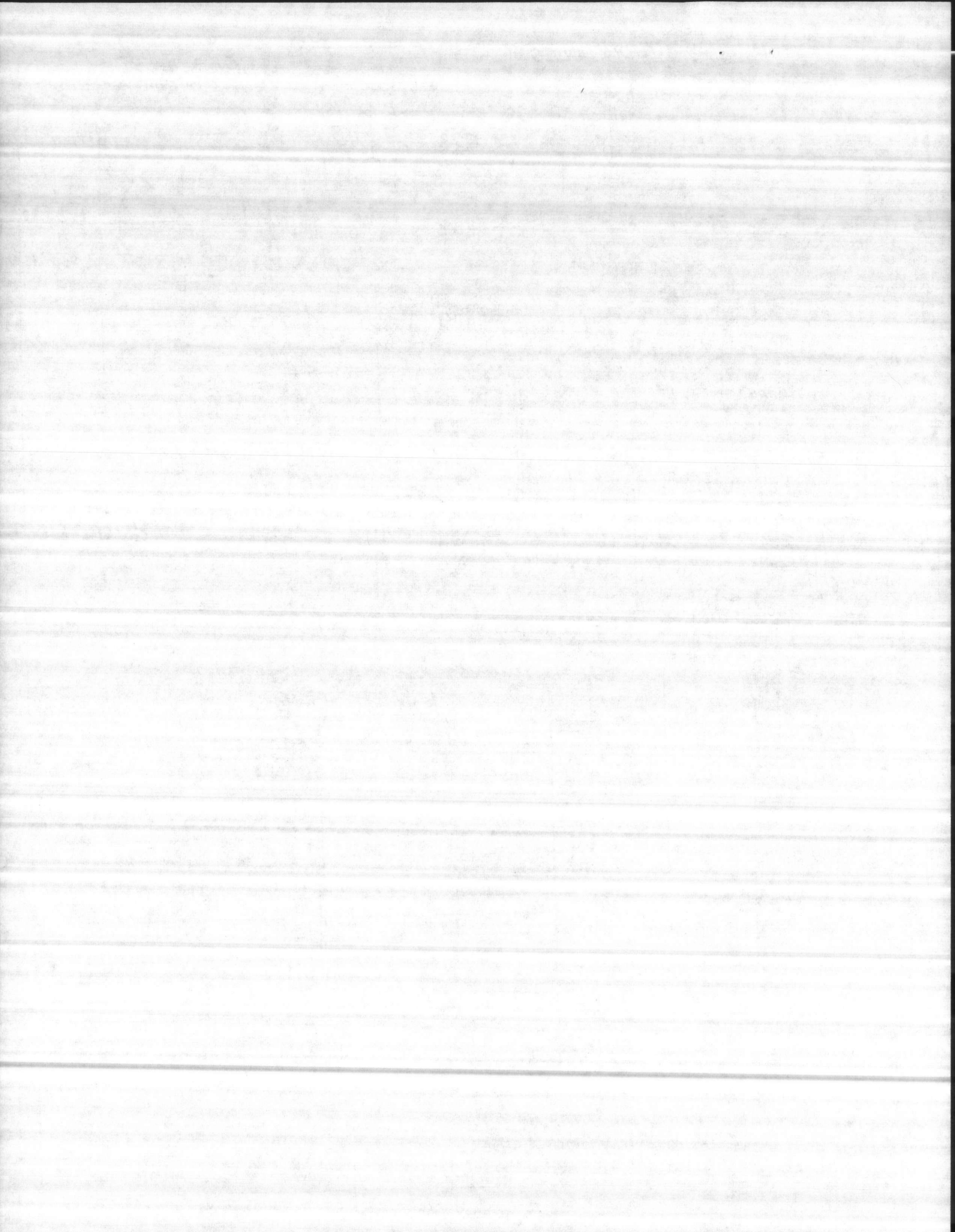
A	17"	Z	11'-0 3/8"
B	14 1/2"	CS	85'-3 1/4"
C	2"	OA	101'-0 3/8"
D	7/8"	AA	1'-10 1/4"
E	6 1/2"	BB	10 7/8"
F	9"	EE	24"
G	3 3/4"	FF	21 1/16"
H	15 1/2"	GG	29"
J	9 7/8"	HH	11 1/4"
M	11"	JJ	20"
N	6"	KK	45"
R	23"	LL	-
T	-	MM	7'-4 7/8"
U	4'-3 9/16"	NN	10 1/2"
V	5'-7 1/16"	OO	12"
W	6 1/4"	RR	56 1/4" *
X	7 1/2"	SS	5/8" **
Y	4'-8 1/4"	TT	5"

CAMP LEJEUNE No. 3 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 M8
 DRAWING NO. T82510

THE DEMING CO.
 SALEM, OHIO
 RPW

DATE 1-26-81 SCALE NONE



CAMP LEJEUNE No. 2 WELL

DEMING PUMP CO.

SALEM, OHIO, U.S.A.

240 HARRY PEPPER & ASSOC. INC. S.O. 1635-02 P.O. C642-0001

CHARACTERISTIC CURVES

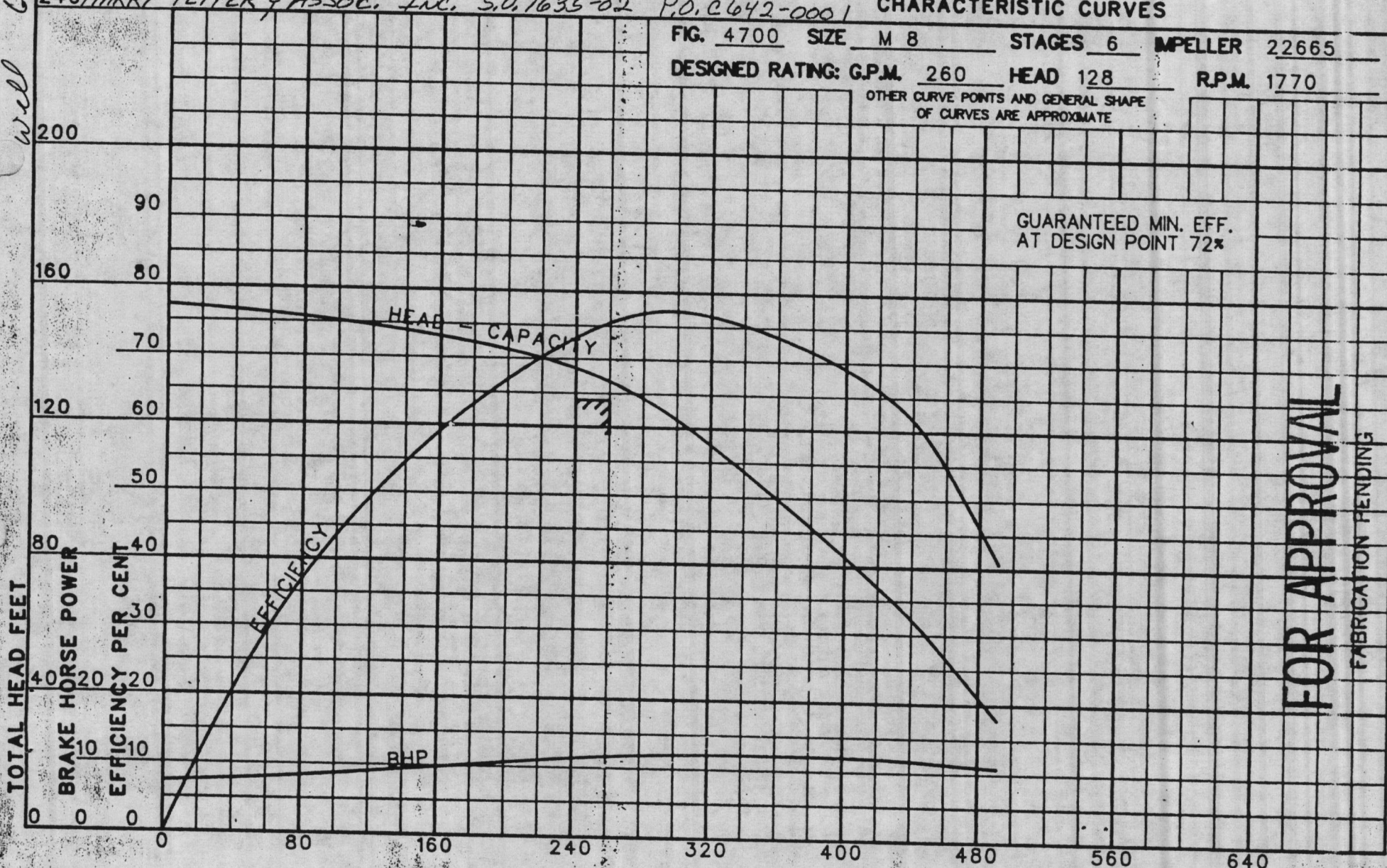
FIG. 4700 SIZE M 8 STAGES 6 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 128 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE

GUARANTEED MIN. EFF. AT DESIGN POINT 72%

Well 699



FOR APPROVAL
FABRICATION PENDING

SERIAL NO. ****

U. S. GALLONS PER MINUTE

DATE 2-21-85

IMP. DIA. 5 3/8"

NO. 023649

