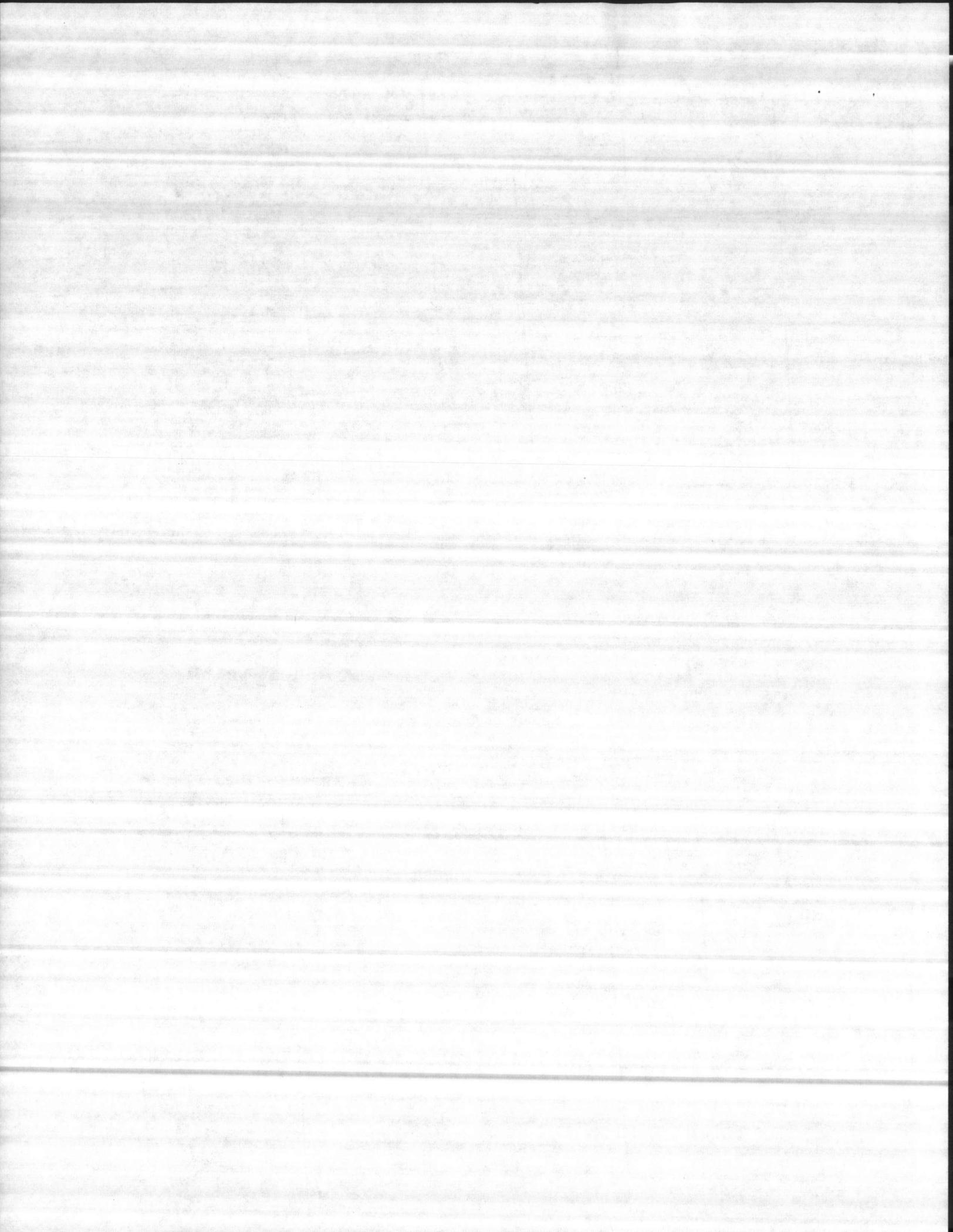
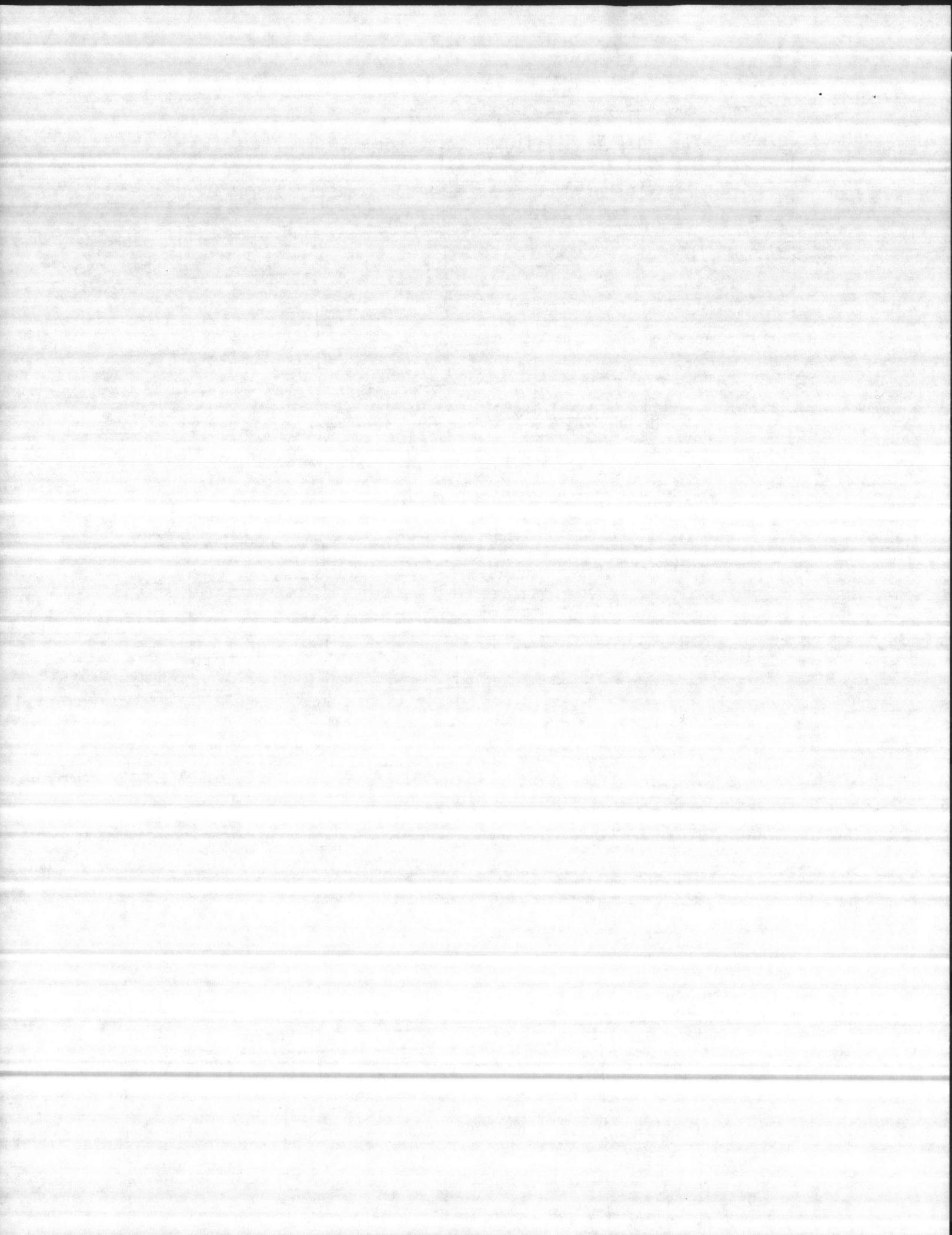


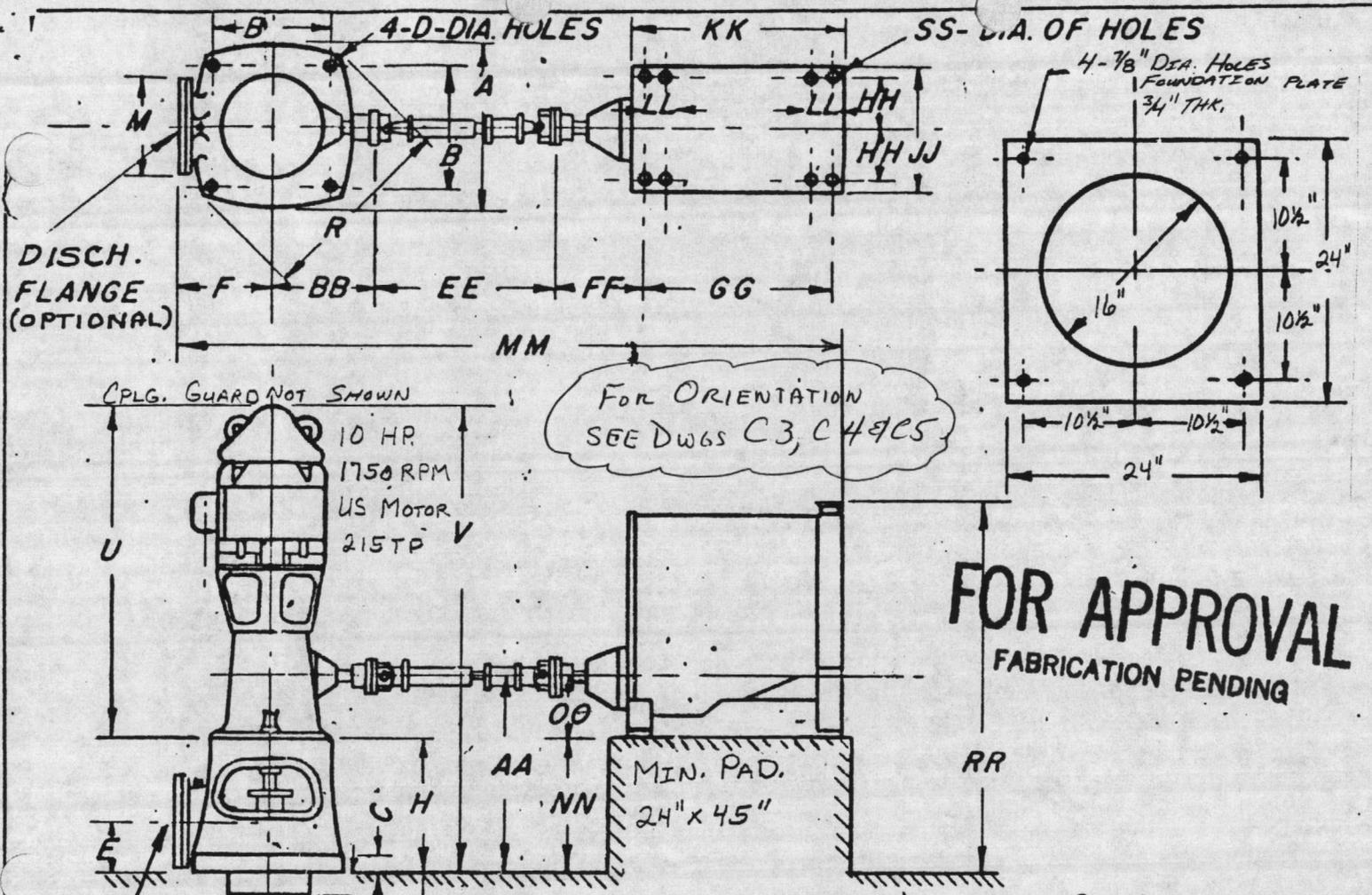
WELL NUMBER 703		BY THOMAS - BROWN			DATE 3-14-90	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85'	26	31	28	25	162	1300
		40	14	20	226	1315
		50	24	15	250	1330
		55	29	10	269	1345
		59	33	5	293	1400

REMARKS
 Dead Head @ 38 PSI
 Left set @ 5 PSI

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE







HARRY PEPPER & Assoc. Inc. P.O. C642-0001 S.O. 1635-05

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	7/8"	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	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	5/2" **
Y	3'-5 1/4"	TT	5"

"N" 125" ASA DISCHARGE

5"x1" COL. & SHAFT

4-STAGES

TT-SIZE OF SUCTION PIPE & PAINER

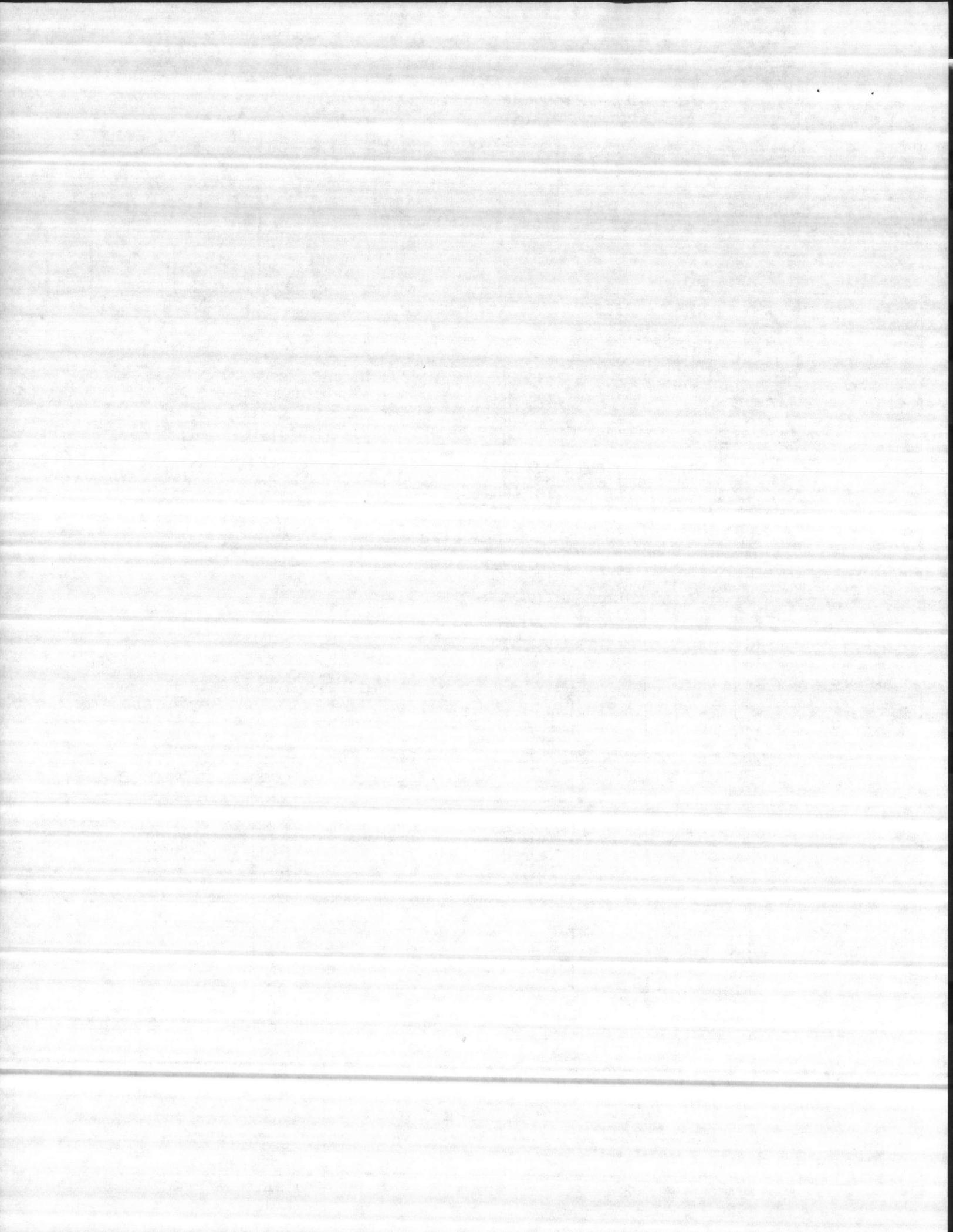
CAMP LEJEUNE No. 5 WELL
TITLE
 VERTICAL TURBINE PUMP WITH COMBINATION RIGHT ANGLE GEAR DRIVE WITH ENGINE & MOTOR

DATE OF ISSUE
 3-1-85
 DESTROY ALL PREVIOUS PRINTS

THE DEMING CO.
 SALEM, OHIO

DATE 1-26-81 | SCALE NONE

FIG. 4700 SIZE M8
 DRAWING NO. T82512



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 214	DATE 5-30-86
--------------------------	-----------------------	-----------------

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 WELL # 5			
1	1.2.1	Shop Drawings	7	A	JRB

CONTRACTOR'S COMMENTS

An Additional ten (10) feet of screen was added.

This Shop Drawing replaces Shop Drawing previously submitted. See Item # 6, Transmittal # 106, dated 10-16-85.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

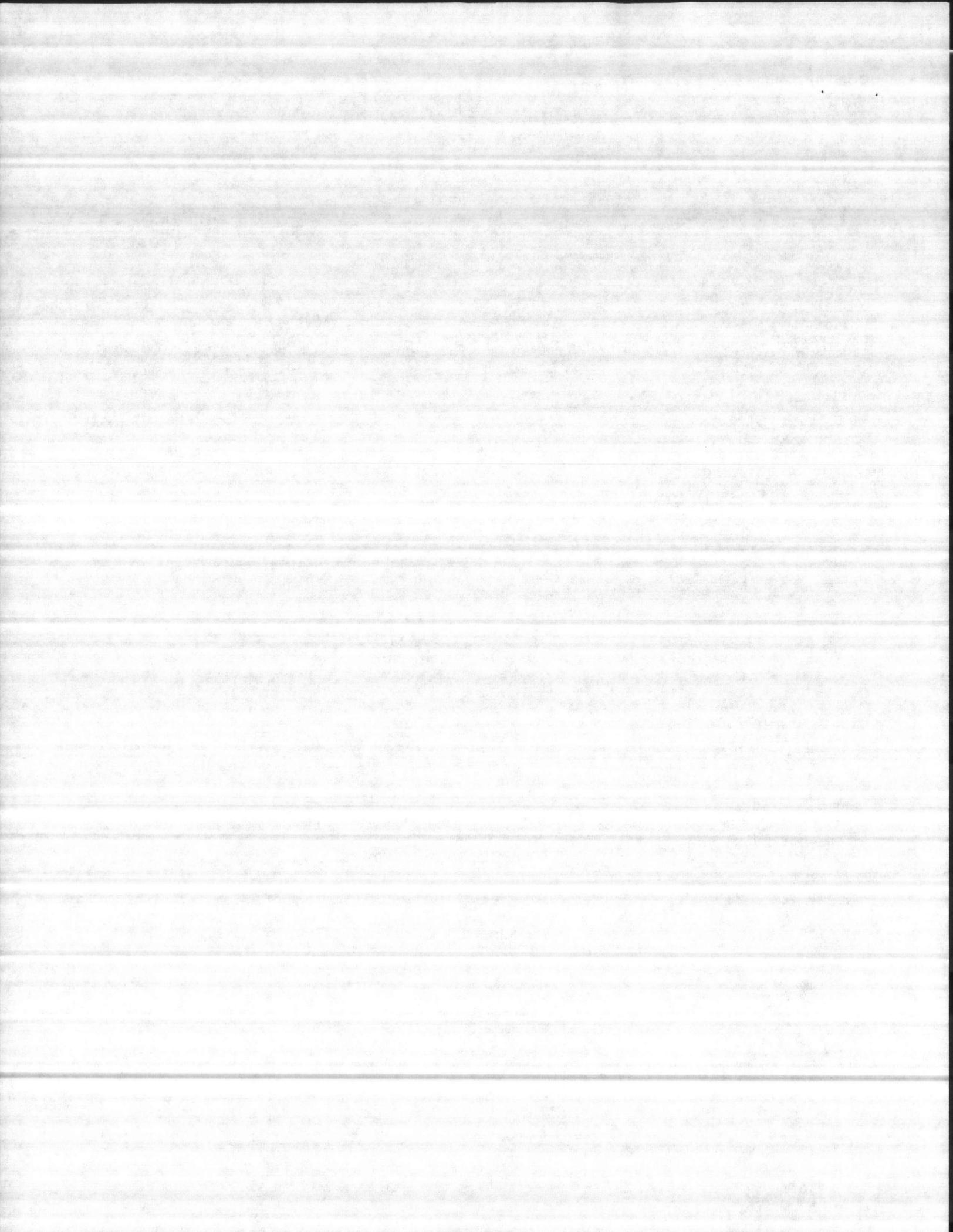
CONTRACTOR REPRESENTATIVE (Signature)
 Phil Reese *Phil Reese*

DATE RECEIVED BY REVIEWER: 6/3/86 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

COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE 6/13/86	SIGNATURE
--	-----------------	-----------



R. L. MAGETTE COMPANY

Item # 1

WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

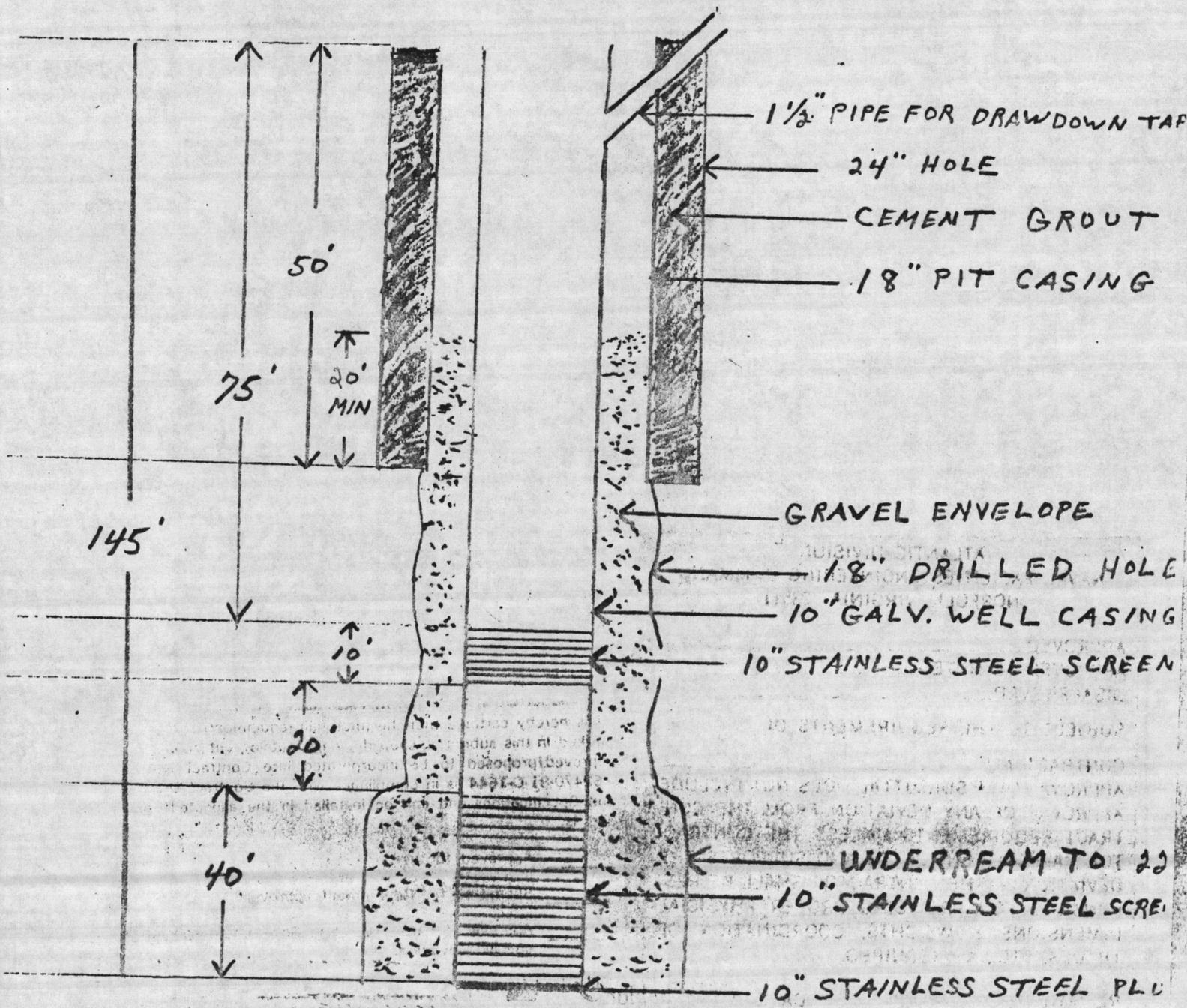


Serving Tidewater Virginia and Eastern North Carolina

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

Smithfield, Virginia 23430

WELL #5



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

EOR 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 Reese* DATE 5-30-86

R. L. MAGETTE COMPANY

Item # 1

WATER SUPPLY CONTRACTORS

DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

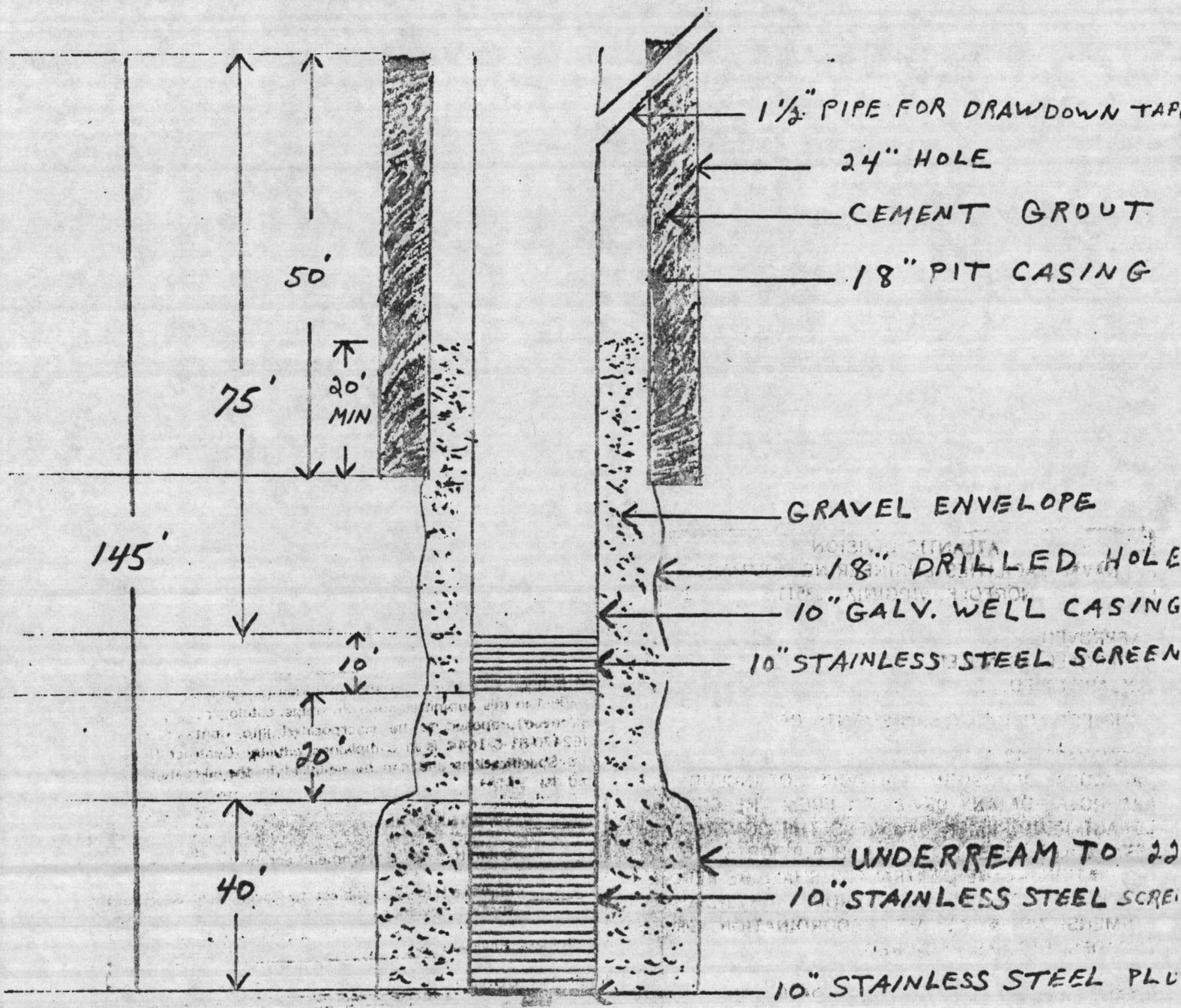


Serving Tidewater, Virginia and Eastern North Carolina

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

Smithfield, Virginia 23430

WELL # 5



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. 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 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 *Phil Fene* **DATE** _____
Signature CQC Rep. *Phil Fene* **DATE** 5-30-86

CAMP LEJEUNE NO. 5 WELL

DEMING PUMP CO.

SALEM, OHIO, U.S.A.

240 HARRY PEPPER & ASSOC. INC. S.O. 1635-05 P.O. C642-0001

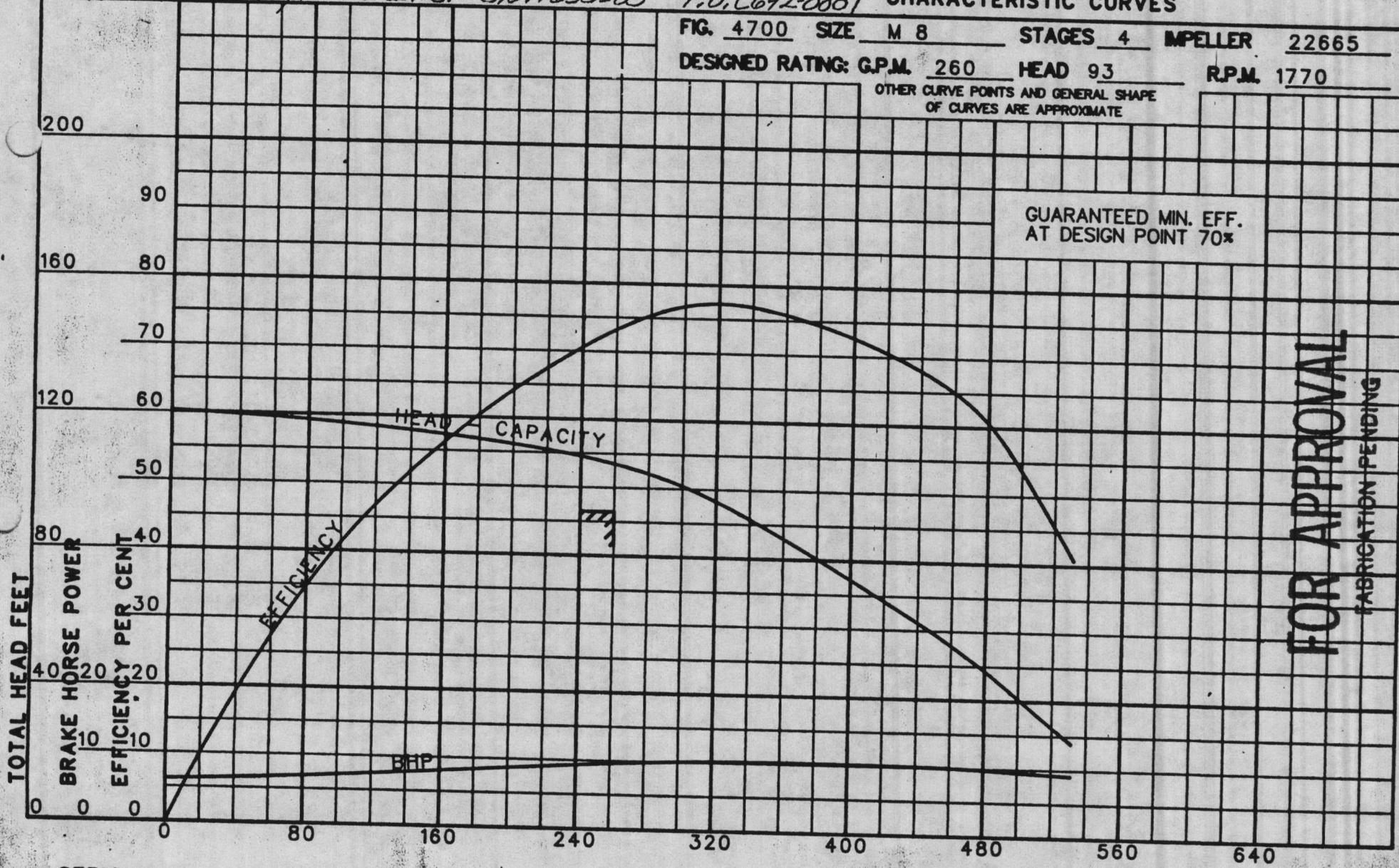
CHARACTERISTIC CURVES

FIG. 4700 SIZE M 8 STAGES 4 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 93 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE

GUARANTEED MIN. EFF. AT DESIGN POINT 70%



FOR APPROVAL
FABRICATION PENDING

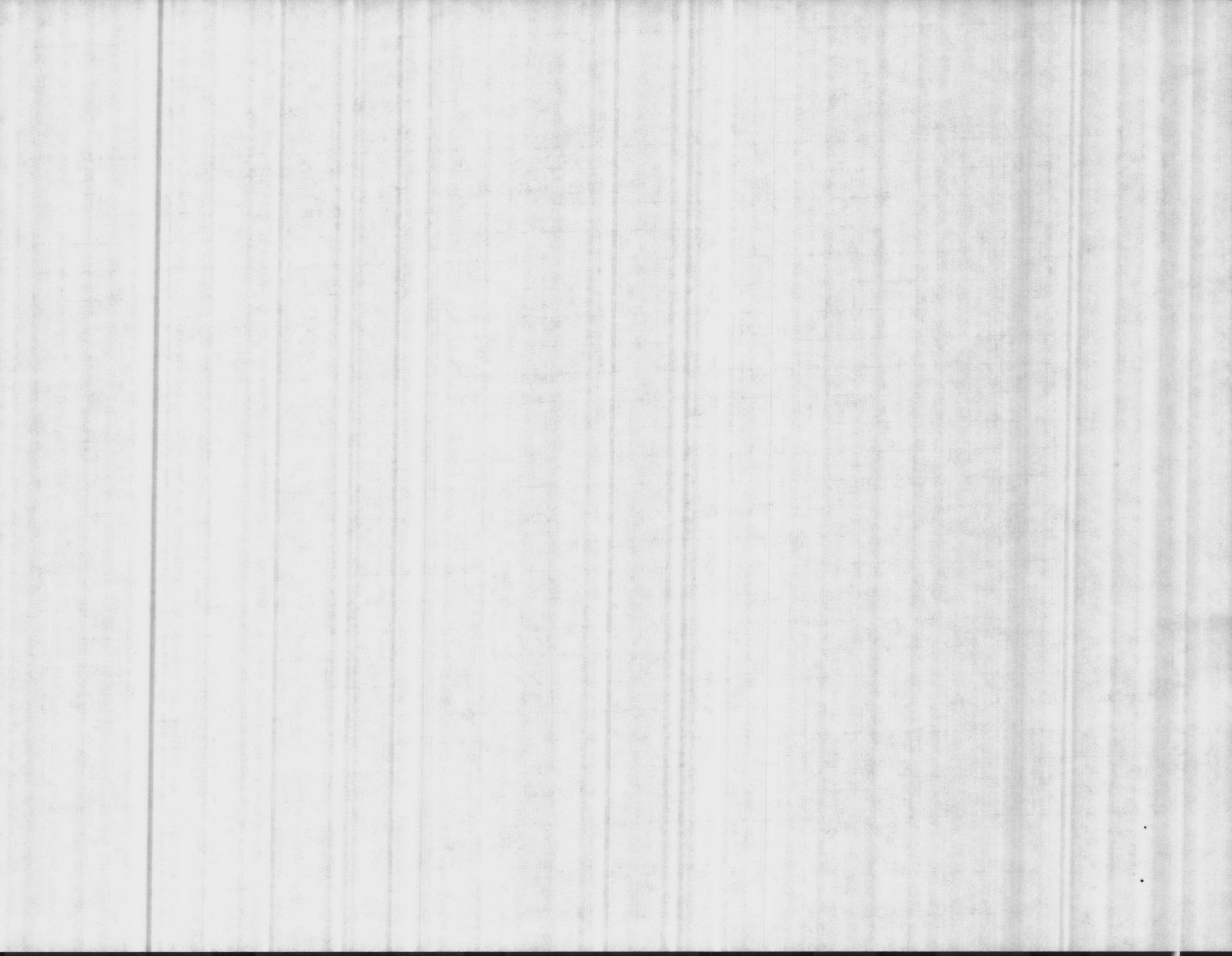
SERIAL NO. ****

U. S. GALLONS PER MINUTE

DATE 2-20-85

DIA. 5 13/16"

NO. Q23646



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO 81-C-1644	TRANSMITTAL NO 106	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

REVIEWER 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

****ACTION CODES**

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

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

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 # 5			
1	2.2	Driller's Log	7		
2	2.2.3	Electric Log	7		
3	2.2	Gamma Log	7		
4	2.2.2	Water Analysis and Sieve Analysis	7		
5	2.2.4	Recommendation and Data Submittal	7	A	B. 10/16/85
6	1.2.1	Shop Drawings	7	A	H. 10/16/85

CONTRACTOR'S COMMENTS

Para 1.2.3 One five (5) pound sample of Gravel is on-site for Approval/Disapproval by Contracting Officer.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

ONE COPY TO ROICC

Phil Reese *Phil Reese*

DATE RECEIVED BY REVIEWER

FROM (Reviewer)

TO

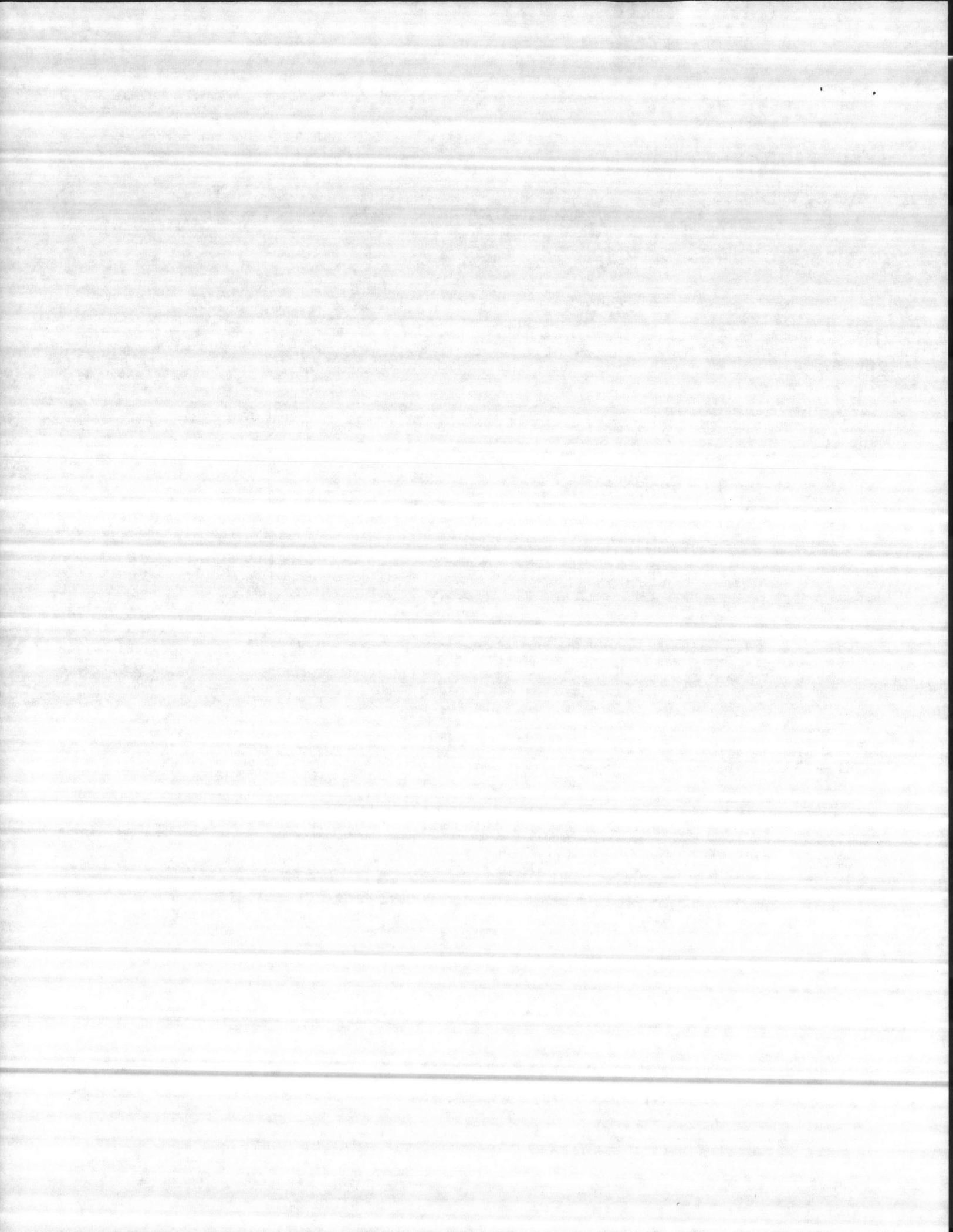
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- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

REVIEWER'S COMMENTS

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

DATE

SIGNATURE



L.A. & COMPANY
Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well # 703

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

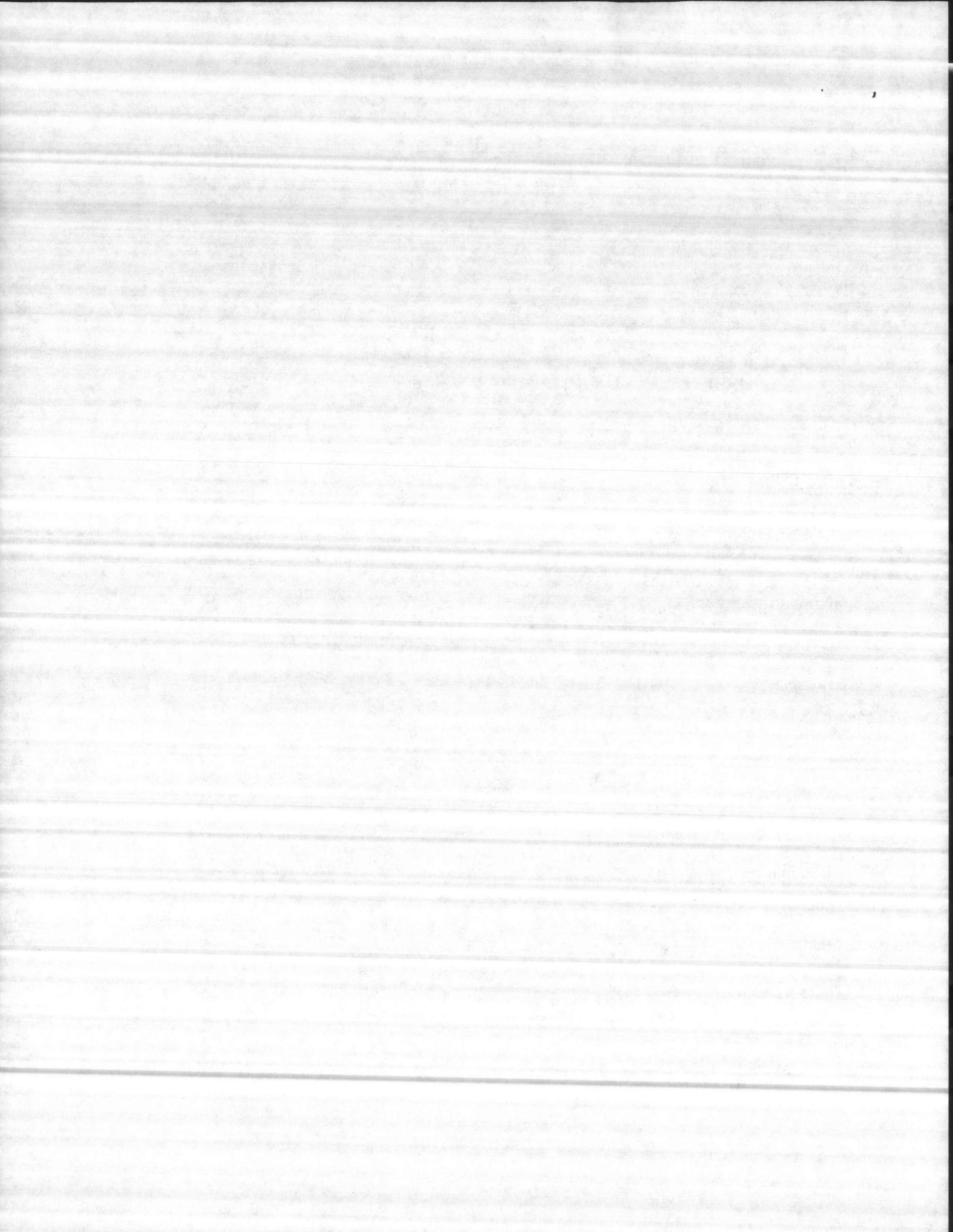
MAJETT WELL & PUMP CO
 P. O. BOX 908
 SMITHFIELD, VA 23430
 ATTN: BUD KELLOG

DATE COLLECTED: 7-19-85 9:00
 DATE RECEIVED: 7-19-85 12:00
 COLLECTED BY: CUSTOMER
 LAB ID# EW8686

SAMPLE DESCRIPTION: WELL #5

<u>TESTS/UNITS</u>	<u>RESULTS</u>	
	<u>84-94</u>	<u>126-136</u>
DISSOLVED OXYGEN (MG/L)	6.0	6.0
pH	7.8	8.0
CARBON DIOXIDE (PPM)	0	0
SULFIDES (PPM)	<.1	<.1
CHLORINE DEMAND (PPM)	1.3	1.1
COLOR (APHA)	45	25
TURBIDITY (NTU)	90	.09
TOTAL ALKALINITY (PPM)	343	214
HYDROXIDE (PPM)	0	0
BICARBONATE (PPM)	329	195
CARBONATE (PPM)	14	19
TOTAL HARDNESS (PPM)	182	198
NON-CARBONATE (PPM)	0	3
CARBONATE (PPM)	182	195
TOTAL DISSOLVED SOLIDS (PPM)	265	272

CONTINUED.....



L.A. & COMPANY
Consulting and Analytical Chemists

ESTABLISHED 1903

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

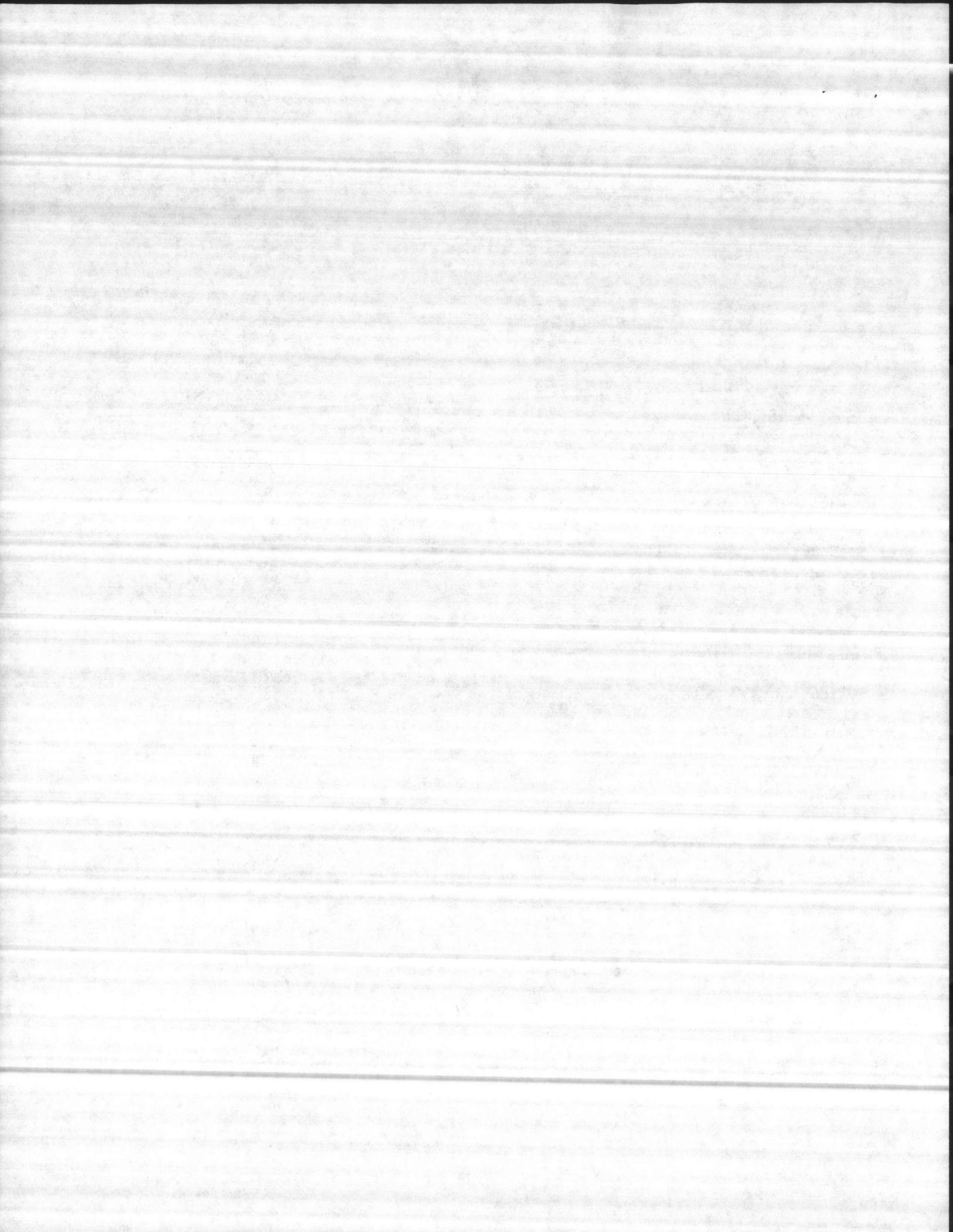
Well #703

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

TESTS/UNITS (CONT.)	RESULTS	
	84-94	126-136
SPECIFIC CONDUCTANCE (UMHOS)	370	310
SULFATE (PPM)	21.8	21.2
CALCIUM (PPM)	61	59
MAGNESIUM (PPM)	2.2	1.6
SODIUM (PPM)	17	17
POTASSIUM (PPM)	2.4	2.0
CHLORIDE (PPM)	14	10
NITRATE NITROGEN (PPM)	<.2	<.2
IRON (PPM)	1.38	1.18
MANGANESE (PPM)	.03	.03
SILICON (PPM)	1.8	1.4
FLOURIDE (PPM)	<.2	<.2

CHEMIST Dolly Bidwan

TOTAL CHARGES \$360.00



HSSC

HOWARD SMITH
SCREEN COMPANY

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

COMPANY...R.L.MAGETTE COMPANY
WELL.....#5
DEPTH.....76-106
FIELD.....-
COUNTY.....-
STATE.....VA

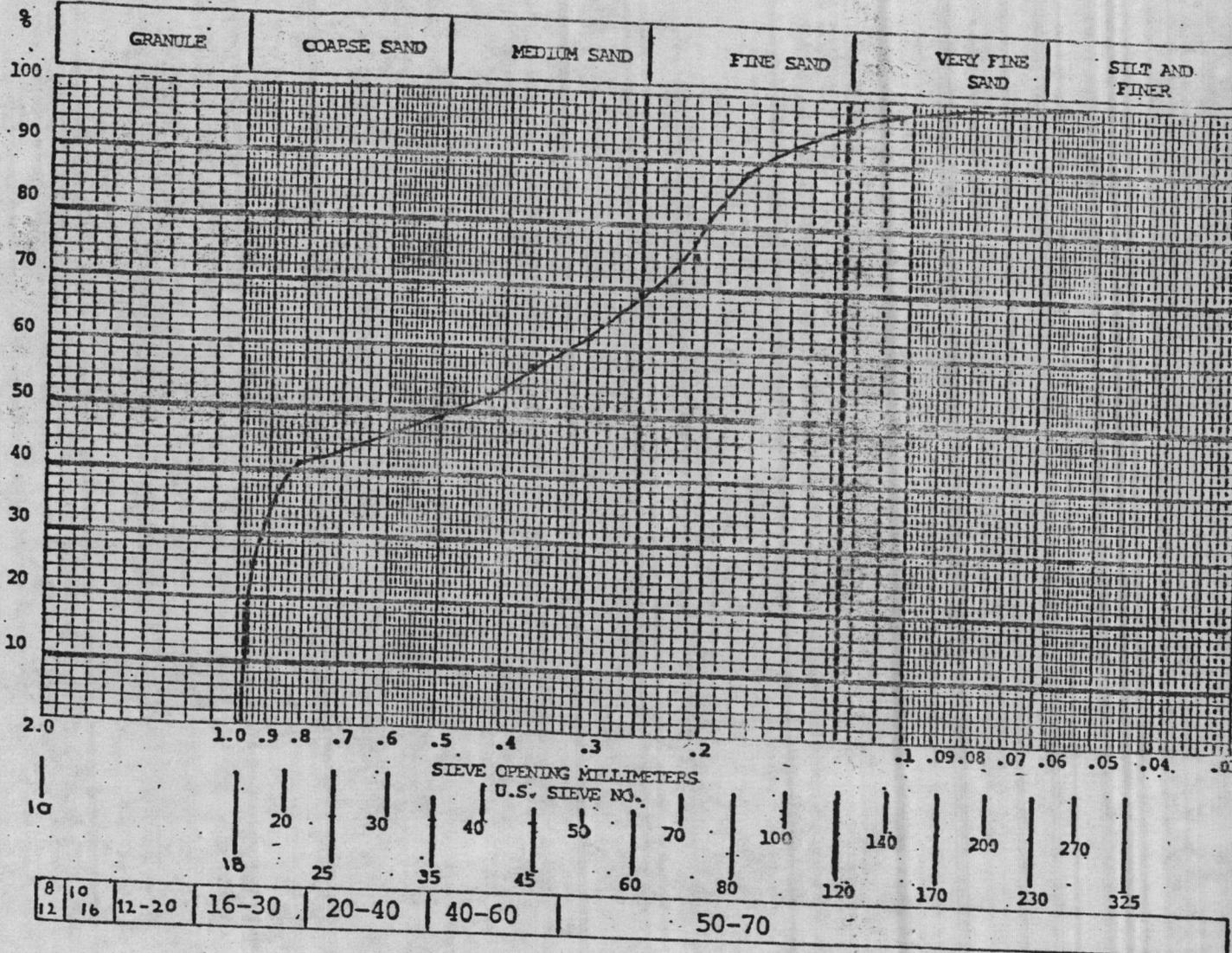
SIEVE ANALYSIS REPORT

INTACT...-
TELEPHONE...-
REMARKS...-

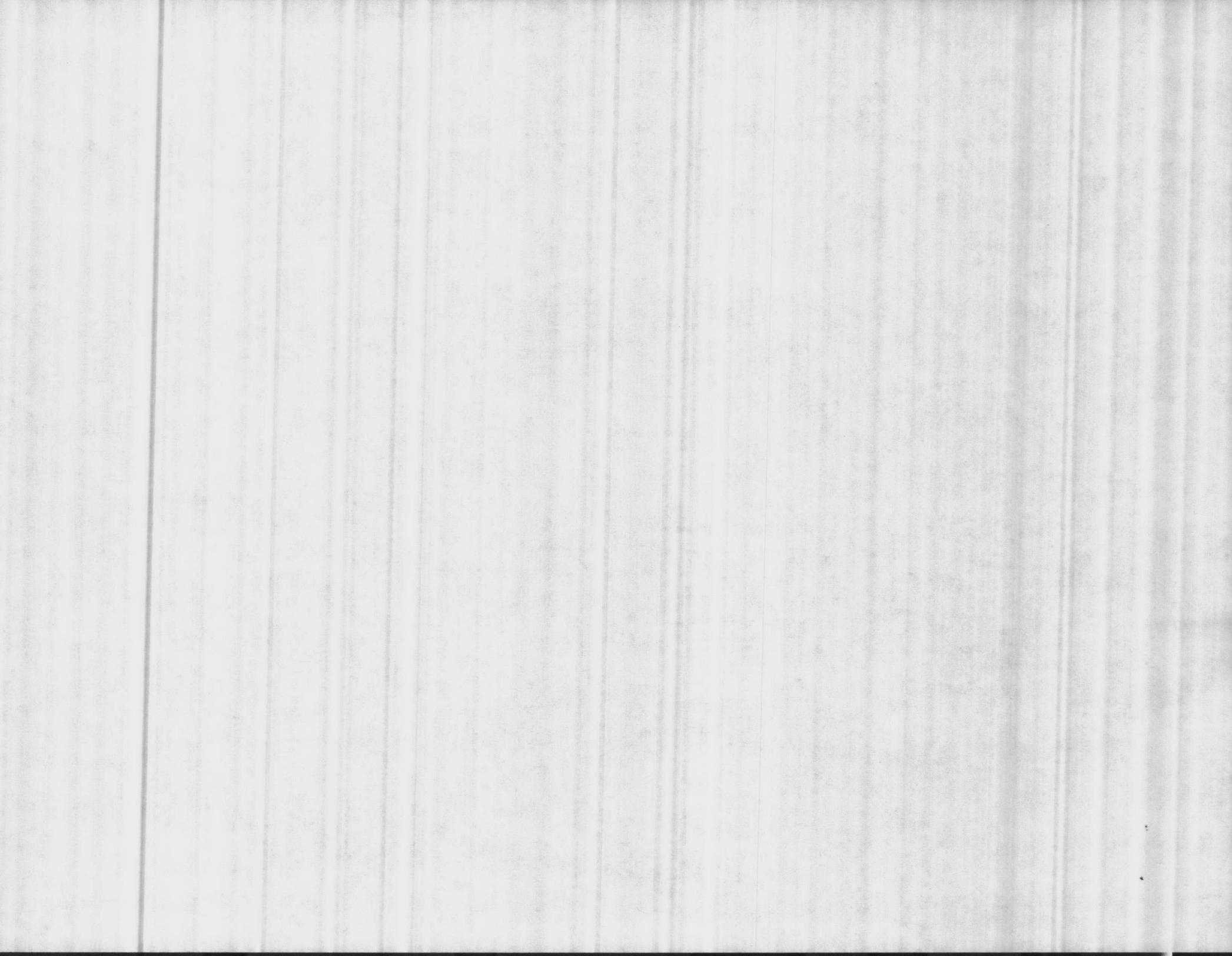
RECOMMENDATIONS:

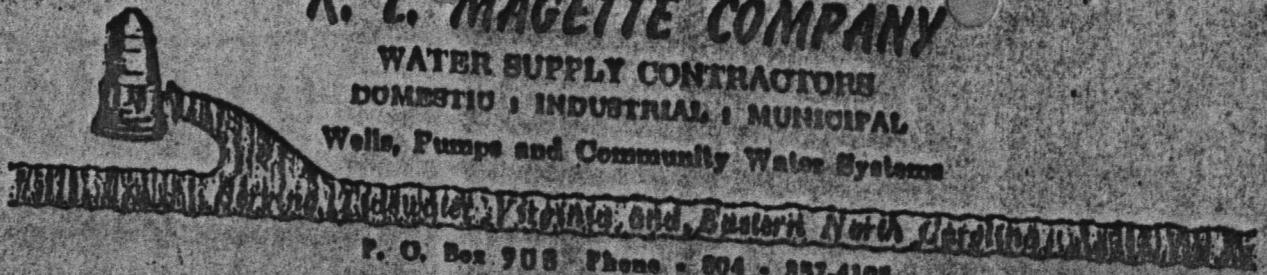
GRAVEL SIZE 8-12
SCREEN SIZE 030

US EVE	IN	MM	WT RET	CUM WT	CUM %
10	.0787	2.000	--	--	--
18	.0394	1.000	--	--	--
20	.0331	0.840	30.0	30.0	41.2
25	.0280	0.710	--	--	--
30	.0234	0.589	4.0	34.0	46.6
35	.0197	0.500	2.0	36.0	49.4
40	.0165	0.420	2.6	38.6	52.9
45	.0139	0.351	3.5	42.1	57.8
50	.0117	0.297	3.6	45.7	62.7
60	.0098	0.250	4.7	50.4	69.1
70	.0083	0.210	4.7	55.1	75.6
80	.0070	0.177	9.1	64.2	88.1
100	.0059	0.149	3.3	67.5	92.6
120	.0049	0.124	2.2	69.7	95.6
140	.0041	0.104	1.3	71.0	97.4
170	.0035	0.088	0.9	71.9	98.6
200	.0029	0.074	0.5	72.4	99.3
230	.0024	0.062	0.3	72.7	99.7
270	.0021	0.053	0.2	72.9	100.0
325	.0017	0.044	--	--	--
375	--	--	--	--	--



MES E JACKSON
-2-85





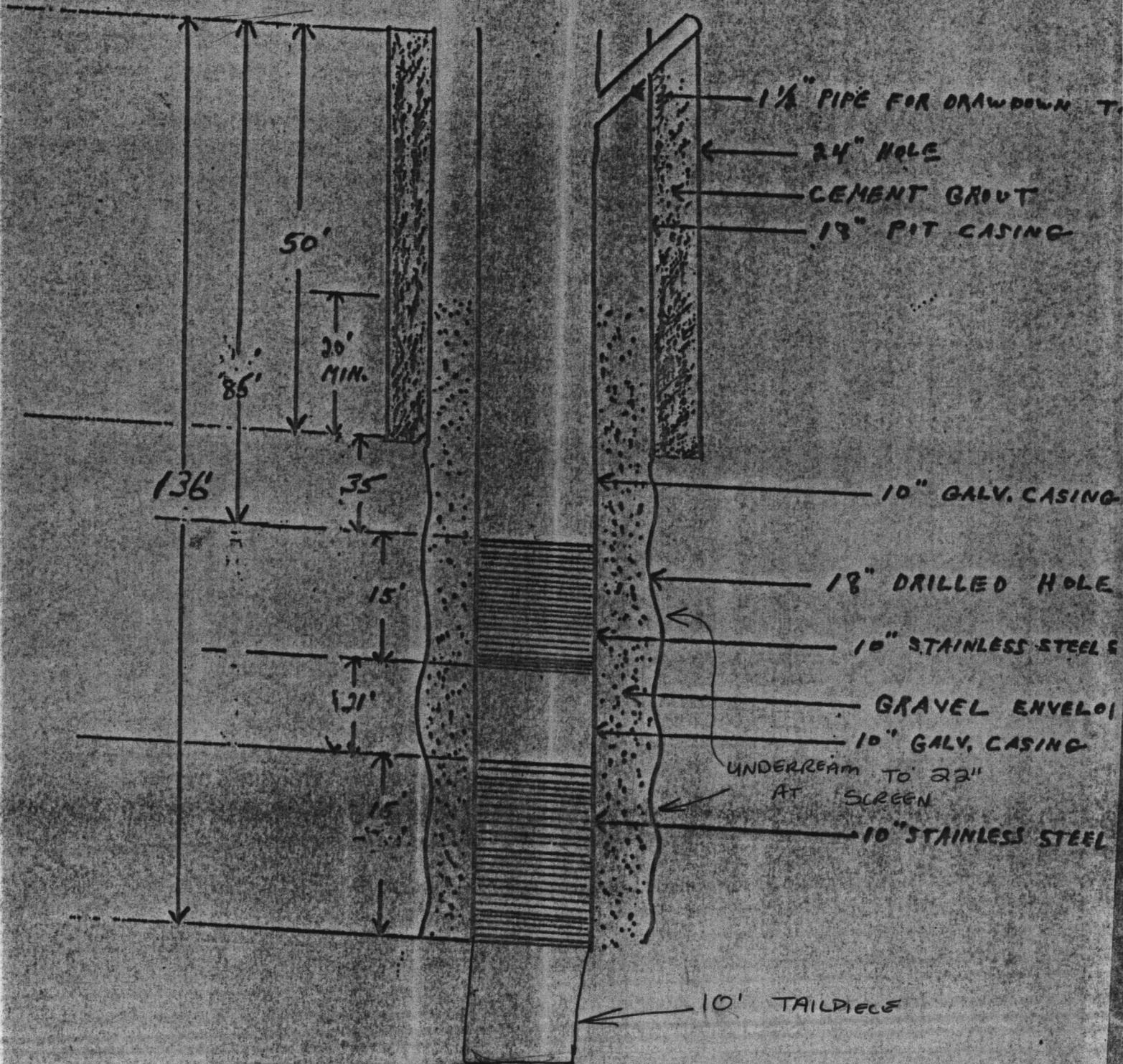
R. L. MAGETTE COMPANY

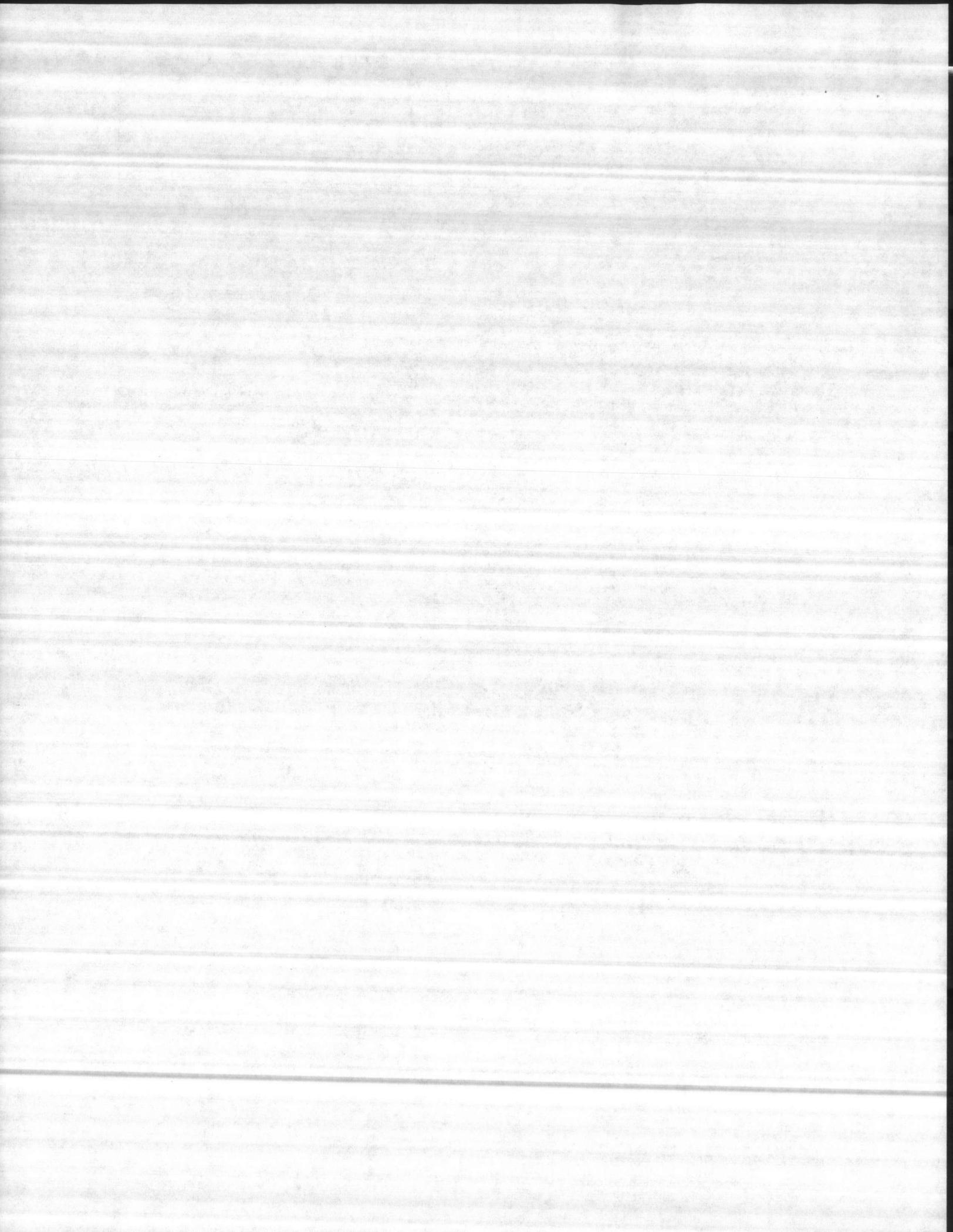
WATER SUPPLY CONTRACTORS
 DOMESTIC : INDUSTRIAL : MUNICIPAL
 Wells, Pumps and Community Water Systems

P. O. Box 908 Phone - 804 - 857-4105

Smithfield, Virginia 23430

WELL # 5







HARRY PEPPER & ASSOCIATES, INC.

ENGINEERING CONTRACTORS

October 11, 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 #5

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' and water samples were taken at the 94' level and the 136' level.

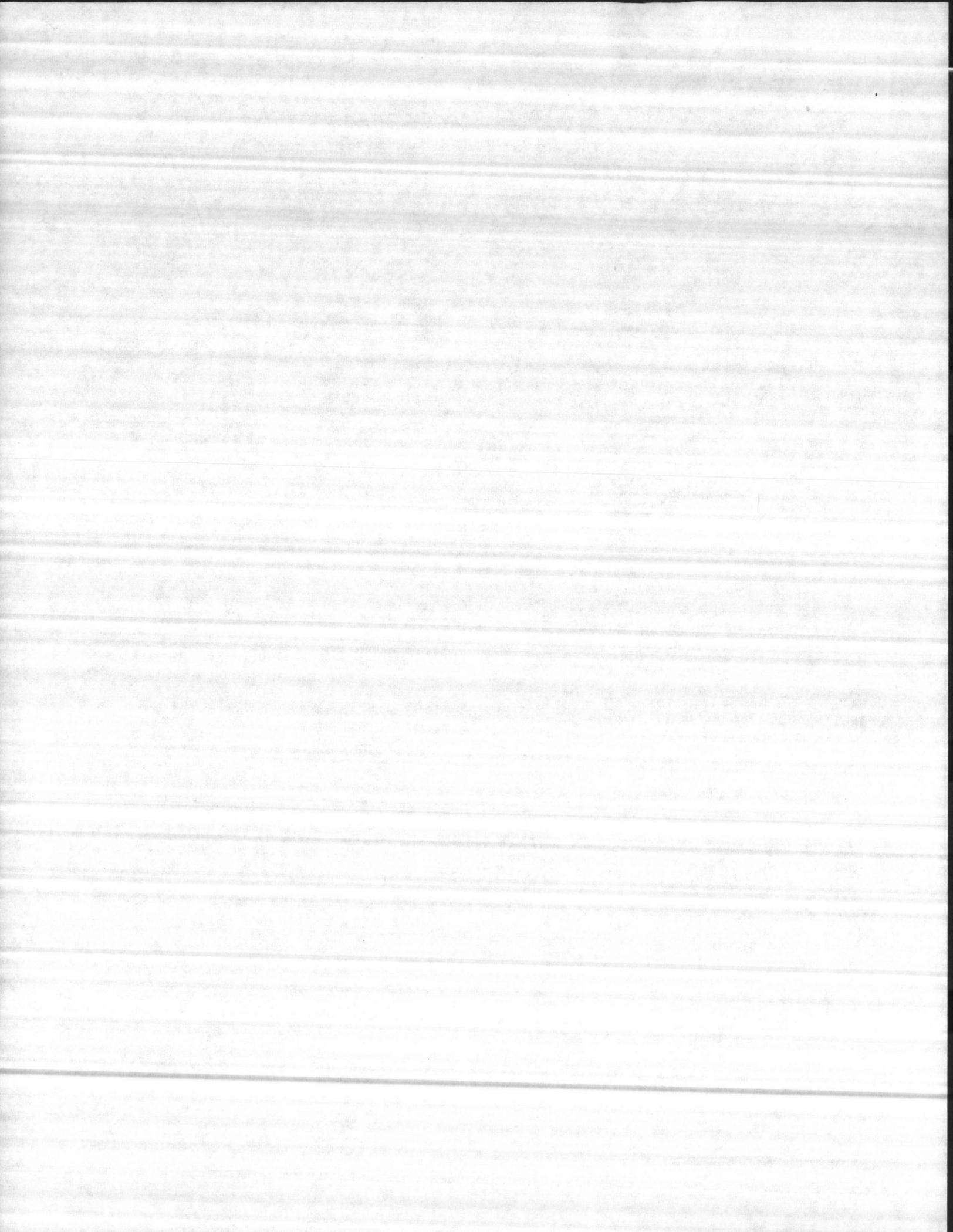
We recommend a line of .030 slot stainless steel screen set at the 121'-136' level and from the 85'-100' level for a total of 30 VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well may yield 260 GPM.

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

Very truly yours,
HARRY PEPPER & ASSOCIATES, INC.


Phil Reese
CQC Officer

enclosures



FCR

Item 2

R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS
DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems



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

Smithfield, Virginia 23430

Camp LeJune
North Carolina
Well No. 5

- 0 - 5 Brown sand and top soil
- 5 - 15 Fine light brown sand
- 15 - 55 Fine white sand
- 55 - 75 Blue clay mixed with fine gray sand
- 75 - 85 Fine strata sand
- 85 - 105 Coarse strata sand mixed with shells
- 105 - 110 White clay
- 110 - 120 Medium strata sand
- 120 - 160 Fine sand and shell
- 160 - 215 Very fine sand
- 215 - 250 Fine sand

DRILLERS

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

THIS SUBMITTAL DOES NOT INCLUDE
 APPROVAL OF ANY DEVIATION FROM THE CON-
 TRACT DRAWINGS UNLESS THE CONTRAC-
 TOR'S ATTENTION TO AND SUPPORTS THE
 CONTRACTOR SHALL BE RES-
 PONSIBLE FOR PROVIDING PROPER PHYSICAL
 DIMENSIONS, WEIGHTS, COORDINATION OF
 TRADES, ETC., AS REQUIRED.

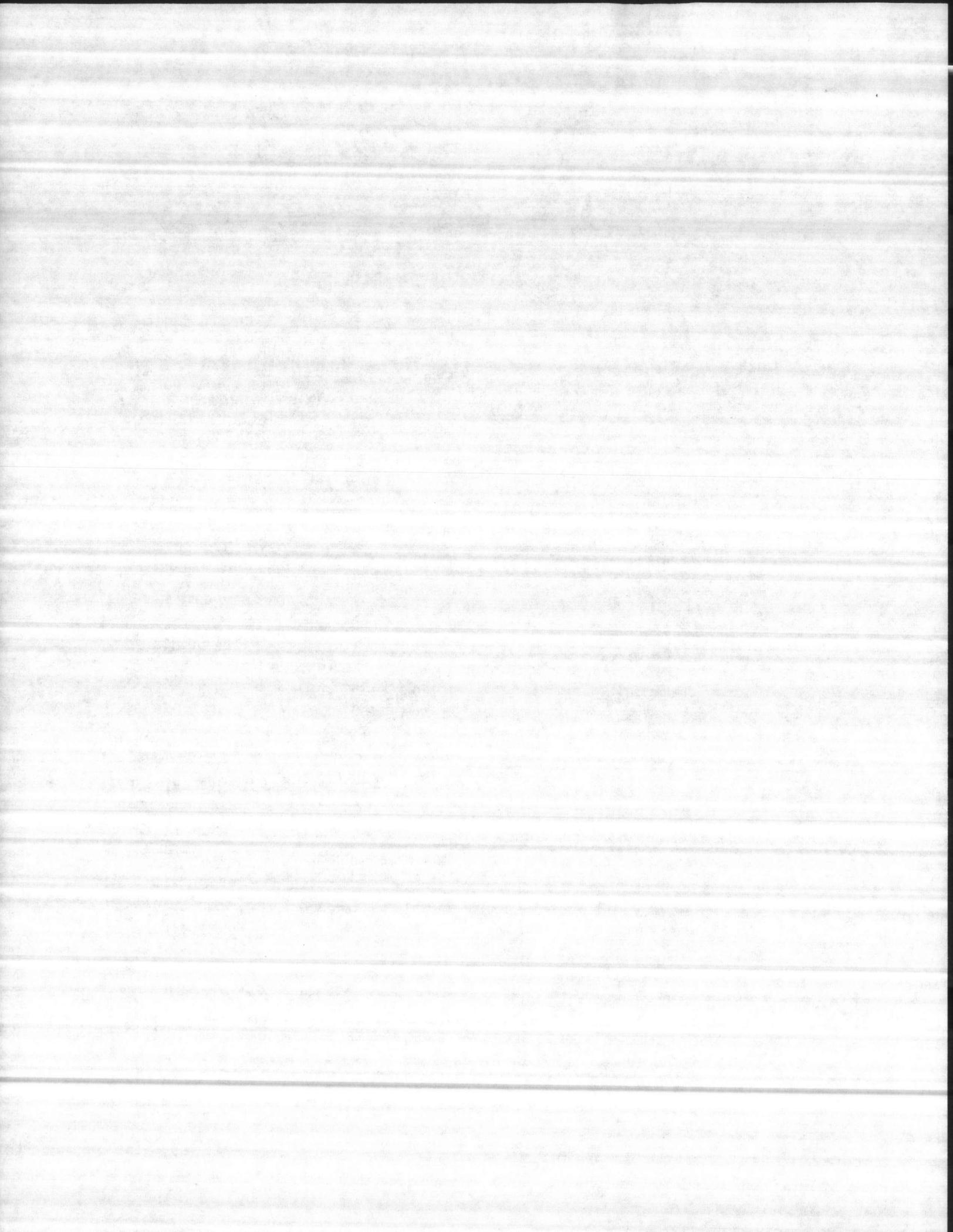
REVIEWER [Signature] DATE OCT 21 1985

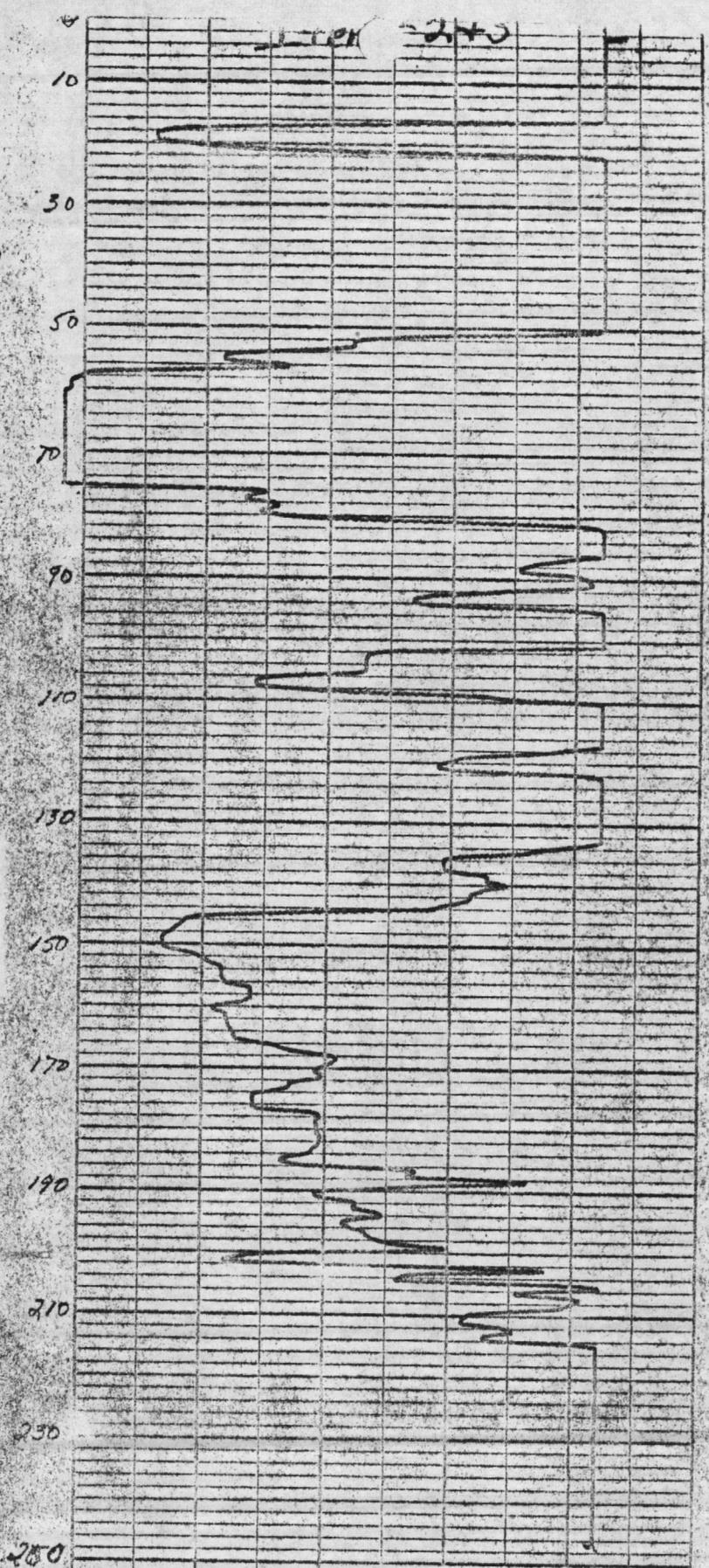
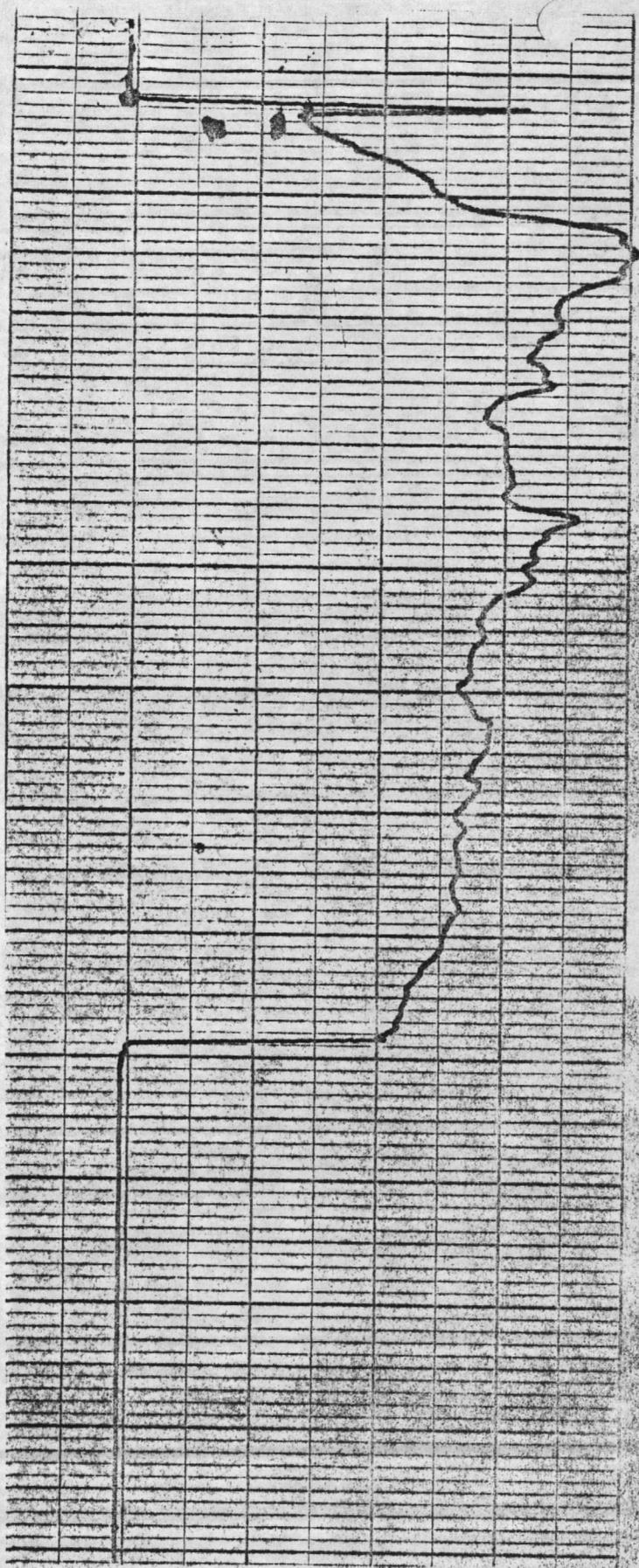
OFFICER IN CHARGE OF CONSTRUCTION

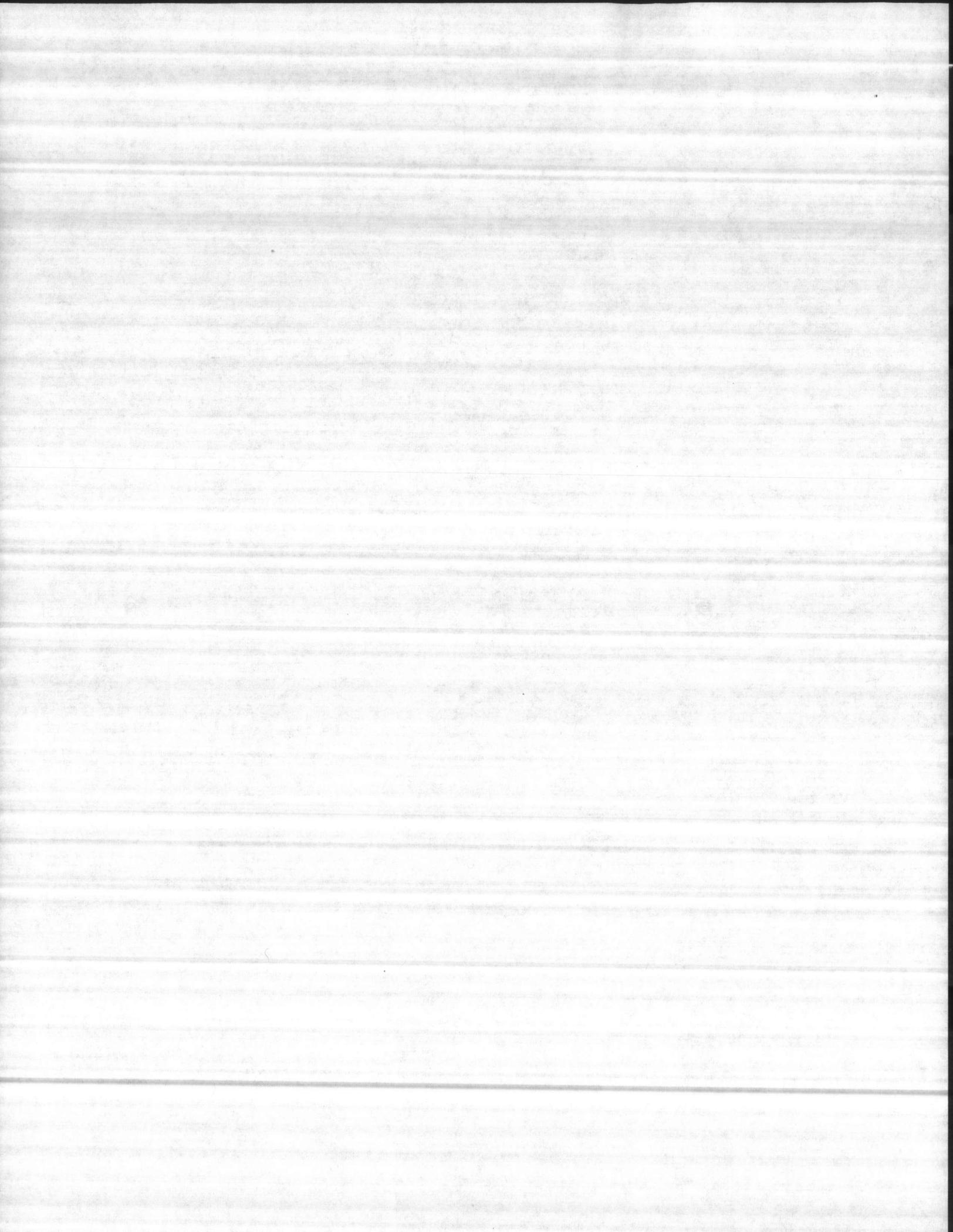
It is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated 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 178	DATE 3-18-86
--------------------------	-----------------------	-----------------

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

REVIEWER 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

****ACTION CODES**

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

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

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 # 5			
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

-3 APR 23 12 01

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC CONTRACTOR REPRESENTATIVE (Signature) *Phil Reese*

ONE COPY TO ROICC Phil Reese

DATE RECEIVED BY REVIEWER FROM (Reviewer) TO

3/21/86 Henry von Oesen & Assoc., Inc.

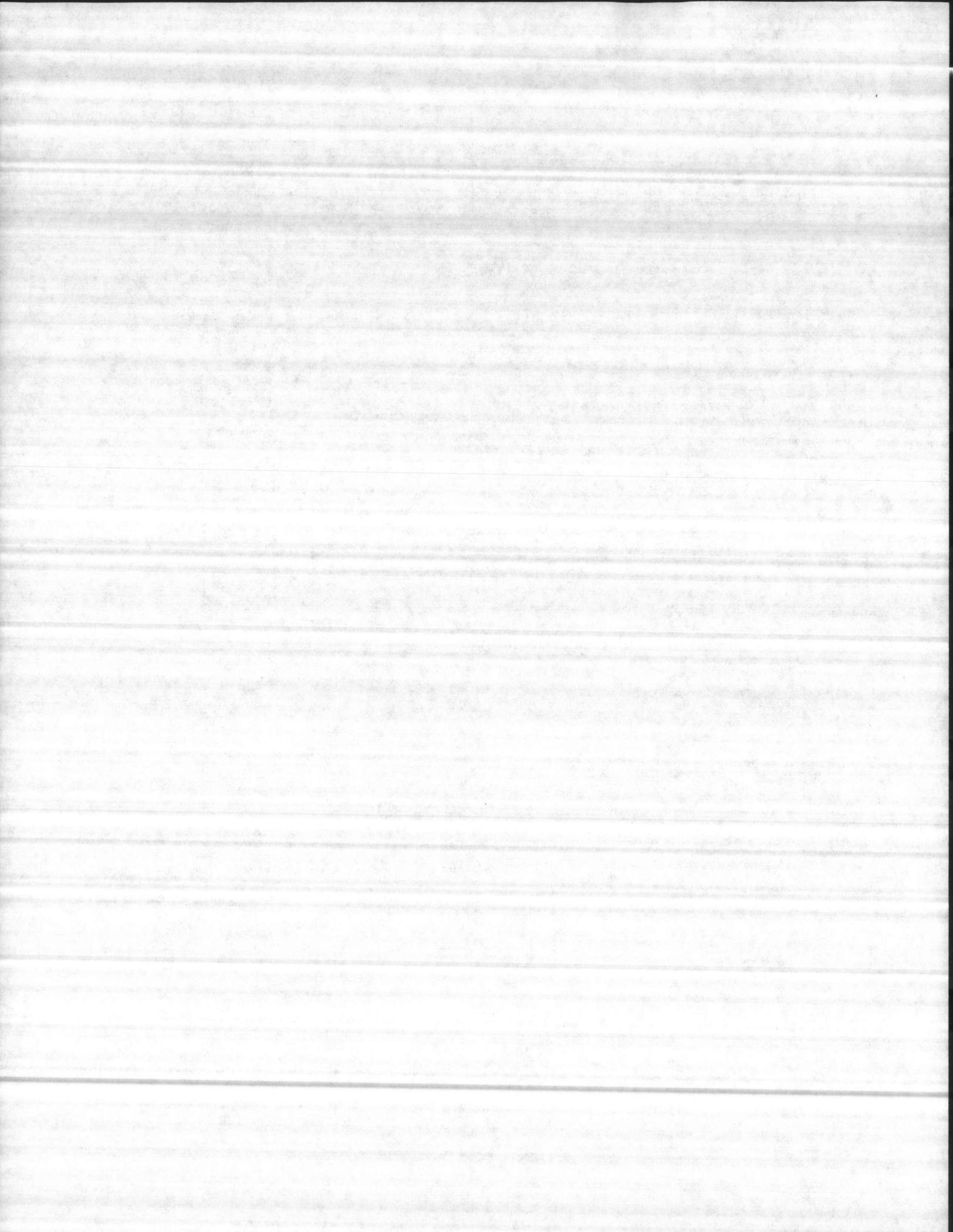
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE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

REVIEWER'S COMMENTS

Contractor's approval appears to be appropriate.

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

4/2/86 *[Signature]*



<u>TIME</u>	<u>PUMP SETTING</u>	<u>STATIC</u>
2:00PM	84'	18'5"
	<u>PUMPING LEVEL</u>	<u>DRAWDOWN</u>
2:00	30'2"	11'9"
2:01	31'4"	1'2"
2:02	32'1"	9"
2:03	33'5"	1'4"
2:04	34'8"	1'3"
2:05	35'11"	3"
2:06	37'1"	1'2"
2:07	38'3"	1'2"
2:08	39'	9"
2:09	39'10"	10"
2:10	40'2"	4"
2:15	40'11"	9"
2:20	42'	1'1"
2:25	43'1"	1'1"
2:30	43'10"	9"
2:35	45'1"	1'3"
2:40	46'3"	1'2"
2:45	47'5"	1'2"
2:50	48'5"	1'2"
2:55	49'7"	1'2"
3:00	50'1"	6"
4:00	51'2"	1'1"
5:00	52"	10"
6:00	52'5"	5"
7:00	53'1"	1'4"
8:00	53'9"	8"
9:00	54'2"	5"
10:00	54'10"	8"
11:00	55'3"	1'2"
12:00AM	55'3"	1'2"
1:00	55'9"	6"
2:00	56'1"	4"
3:00	56'8"	7"
4:00	57'2"	6"
5:00	56'1"	6"
6:00	56'4"	6"
7:00	56'8"	4"
8:00	57'4"	8"
9:00	57'4"	-
10:00	57'4"	-
11:00	57'6"	2"
12:00	57'6"	
1:00	57'6"	
2:00	57'6"	

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA 23511

APPROVED X

APPROVED AS SHOWN

DISAPPROVED

SUBJECT: THE ... OF ...

CONTRACT NO. **N62470-81-C-1644**

APPROVED FOR USE

DATE **APR 02 1986**

FOR OFFICER IN CHARGE OF CONSTRUCTION

I hereby certify that the (material) (equipment) shown ...
 used in this submittal, shop drawings, catalog cut (s), etc., are
 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:

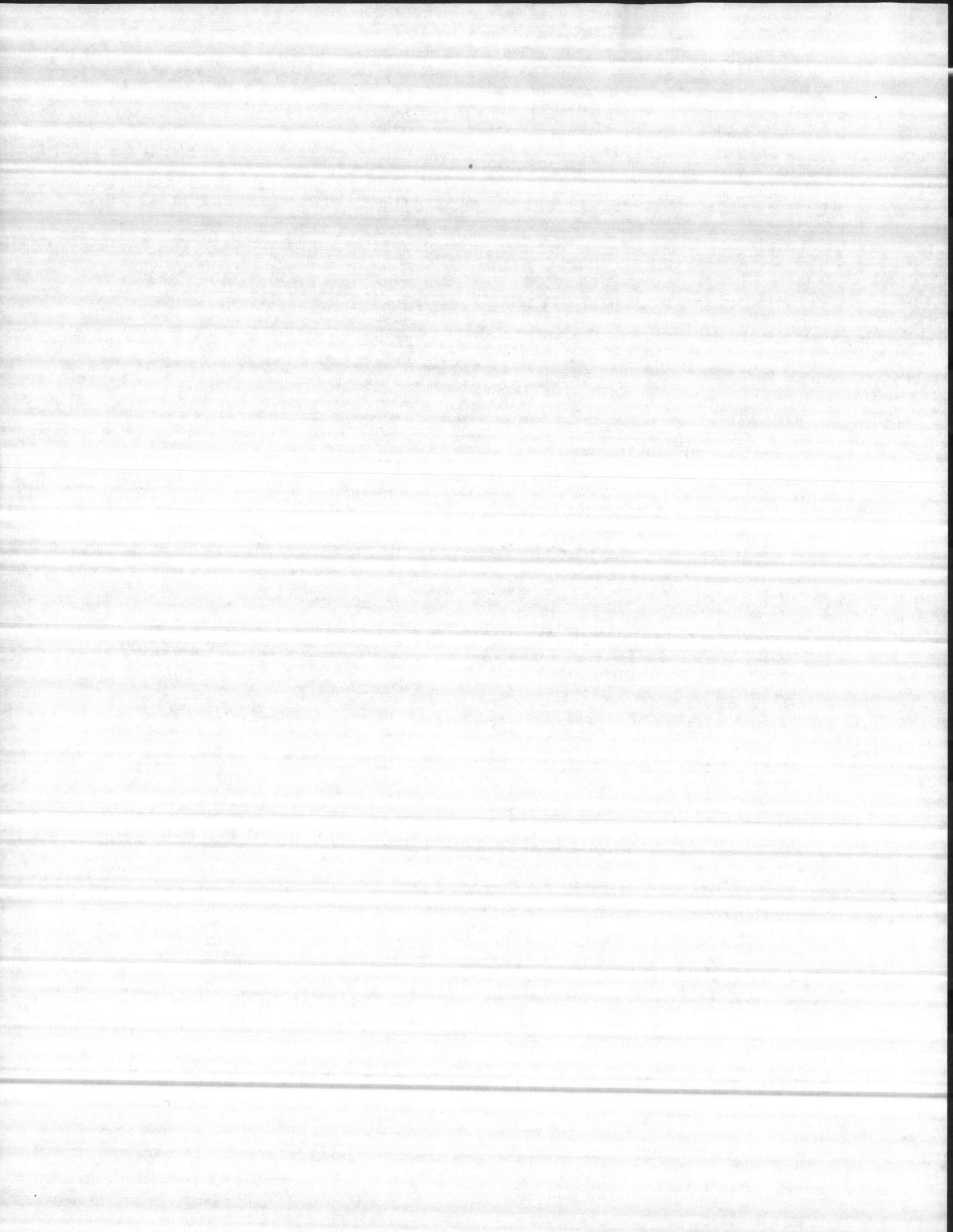
Approved for use.

Submitted for Government approval.

Approved for use subject to Government approval of
 specific deviation.

Authorized Reviewer Phil Pees DATE _____

Signature CQC Rep. Phil Pees DATE 3-18-86



Two Hour Recovery
Well # 5

3-6-85

ITEM # 2

2:00PM	27'4"
2:01	23'8"
2:02	23'6"
2:03	22'10"
2:04	20'11"
2:05	20'8"
2:06	20'6"
2:07	20'5"
2:08	20'5"
2:09	20'3"
2:10	19'11"
2:15	19'5"
2:20	19'
2:25	18'10"
2:30	18'8"
2:35	18'5"
2:40	"
2:45	"
2:50	"
2:55	"
3:00	"
4:00	"

Hu

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
170
DATE
3-1-86 2-28
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
1	02734	ROTARY DRILLED WATER WELLS Step Test	7	A	MCB

CONTRACTOR'S COMMENTS

Contractor Advised to Pump at 300 GPM for 24 Hour Test, By Title II Inspector.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
ONE COPY TO ROICC

DATE RECEIVED BY REVIEWER
3/3/86

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

TO

CONTRACTOR REPRESENTATIVE (Signature)
Phil Reese

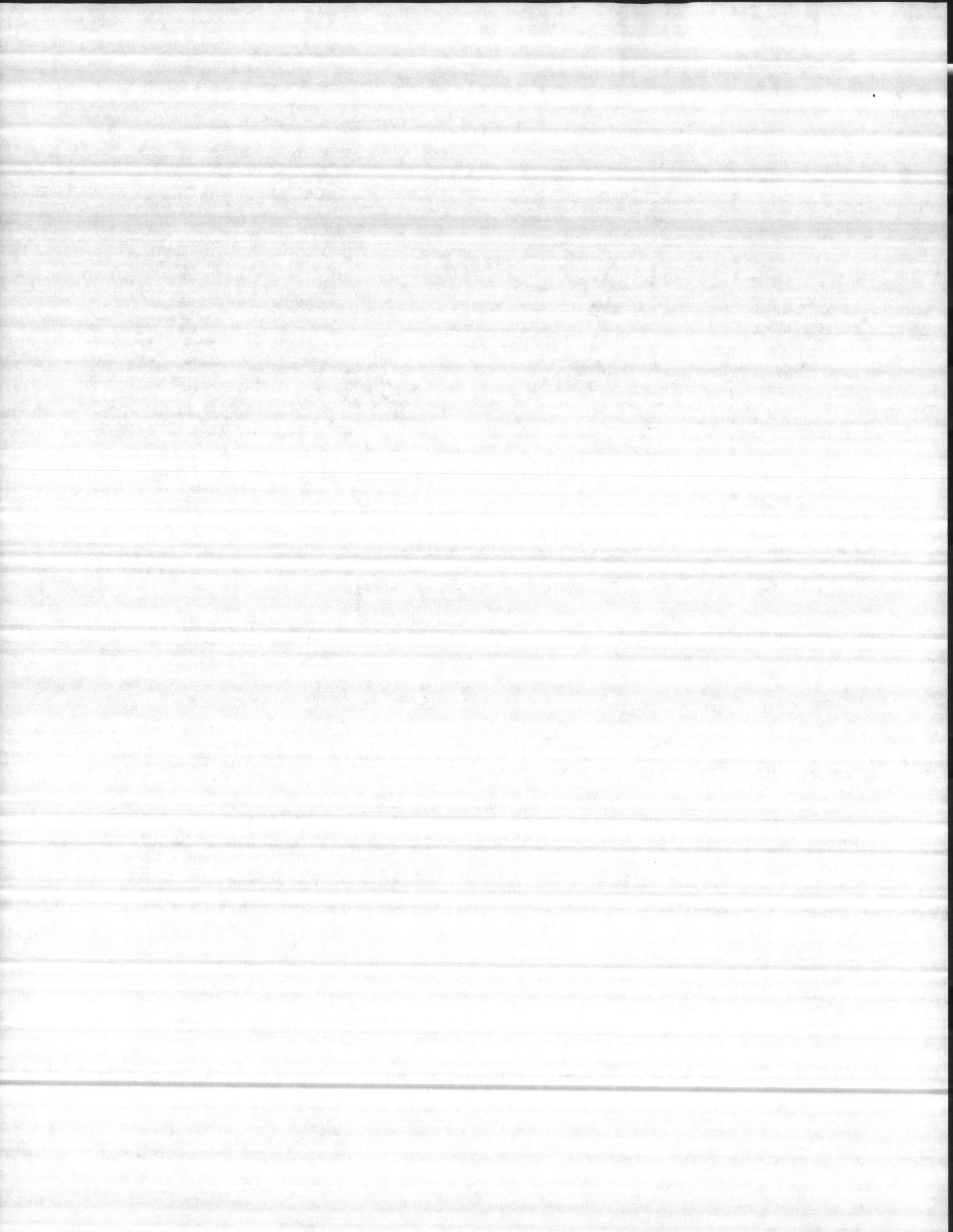
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE 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
3/10/86

SIGNATURE
[Signature]



Well # 5
Step Test
2-28-86

Item # 1

TIME	STATIC	PUMPING LEVEL	PUMPING RATE
9:45AM	20'5"	30'1"	100 GPM
10:00		30'3"	"
10:15		30'5"	"
10:30		"	"
11:00		"	"
11:30		"	"
12:00PM		"	"
12:45		36'5"	150 GPM
1:00		36'8"	"
1:15		36'10"	"
1:30		37'2"	"
2:00		"	"
2:30		"	"
3:00		"	"
3:30		"	"
3:45		42'6"	200 GPM
4:00		42'6"	"
4:15		42'8"	"
4:30		42'11"	"
5:00		"	"
5:30		"	"
6:00		"	"
6:30		"	"
6:45		51'2"	250 GPM
7:00		51'2"	"
7:15		51'2"	"
7:30		51'7"	"
8:00		51'7"	"
8:30		51'7"	"
9:00		51'7"	"
9:30		51'7"	"
9:45		59'10"	300 GPM
10:00		"	"
10:15		"	"
10:30		"	"
11:00		"	"
11:30		"	"
12:00AM		"	"
12:30		"	"
12:45		63'7"	350 GPM
1:00		63'9"	"
1:15		63'9"	"
1:30		63'10"	"
2:00		"	"
2:30		"	"
3:00		"	"
3:30		"	"

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS
CONTRACT _____

DATE _____

C. A. JOHANNESMEYER
CDR., CEC, USN
Officer in Charge
of Construction

I 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
102470-81-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 Fee* DATE *3-18-86*