

FOR ORIENTATION  
SEE DWGS C3, C4 & C5

\* DIM. INCLUDES  
LIFTING BALE  
\*\* 8" FROM EA. EDGE

RR  
**FOR APPROVAL**  
FABRICATION BENDING  
P.O. C642-0001

HARRY PEPPER & ASSOC. INC. S.O. 1635-07

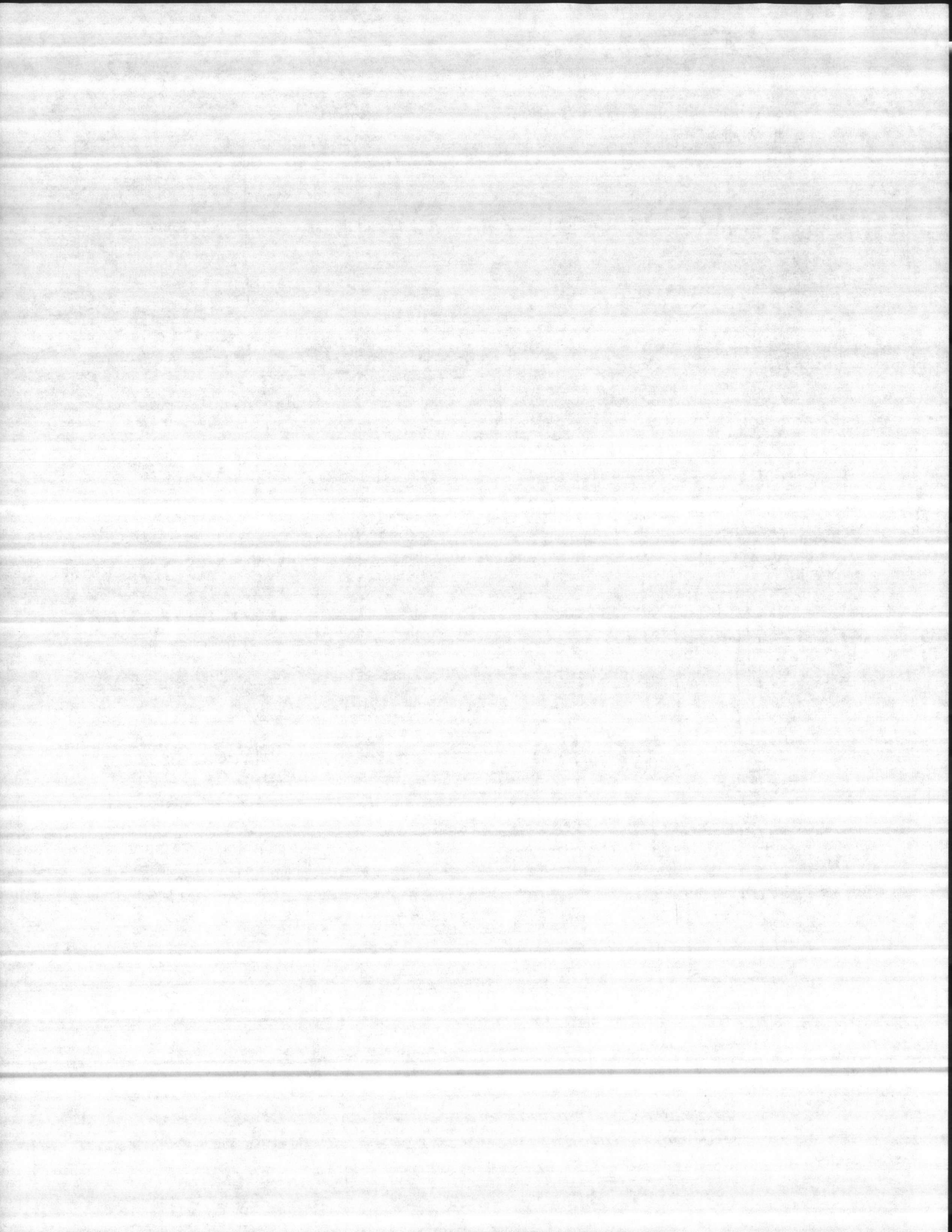
DIMENSIONS			
A	17"	Z	11'-0 3/8"
B	14 1/2"	CS	86'-6 3/4"
C	2"	OA	101'-0 3/8"
D	1/2"	AA	1'-10 1/4"
E	6 1/2"	BB	10 7/8"
F	9"	EE	24"
G	3 3/4"	FF	21 1/16"
H	15 1/2"	GG	29"
J	9 7/8"	HH	11 1/4"
M	11"	JJ	20"
N	6"	KK	45"
R	23"	LL	-
T	-	MM	7'-4 7/8"
U	3'-11 1/2"	NN	10 1/4"
V	5'-3"	OO	12"
W	6 1/4"	RR	56 1/4" x
X	7 1/2"	SS	5/8"
Y	3'-5 1/4"	TT	5"

"N" 125 # ASA DISCHARGE  
5" x 1" COL. & SHAFT  
W CS  
4-STAGES  
X Y  
TT-SIZE OF SUCTION PIPE & PAINER  
Z

CAMP LEJEUNE No. 7 WELL  
TITLE  
VERTICAL TURBINE PUMP WITH  
COMBINATION RIGHT ANGLE GEAR  
DRIVE WITH ENGINE & MOTOR  
DATE 1-26-81 | SCALE NONE

DATE OF ISSUE  
3-1-85  
DESTROY ALL PREVIOUS PRINTS  
FIG. 4700 SIZE M8  
DRAWING NO. T82514

THE DEMING CO.  
SALEM, OHIO  
PPL



Hunt

**CONTRACTOR'S SUBMITTAL TRANSMITTAL**

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

CONTRACT NO 81-C-1644	TRANSMITTAL NO 198	DATE 4-22-86
--------------------------	-----------------------	-----------------

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
01734		ROTARY DRILLED WATER WELLS WELL # 7			
1	2.2.4	Recommendation and Data Submittal	7	A	JRB
2	2.2	Driller's Log	7	A	JRB
3	2.2.3	Electric Log and Gamma Log	7	A	JRB
4	2.2.2	Water Analysis	7	A	JRB
5	2.2.2	Sludge Analysis	7	A	JRB
6	1.2.1	Shop Drawings	7	A	JRB

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  
4/24/86

FROM (Reviewer)  
HENRY VON OESEN & ASSOC., INC.

TO  
ROICC

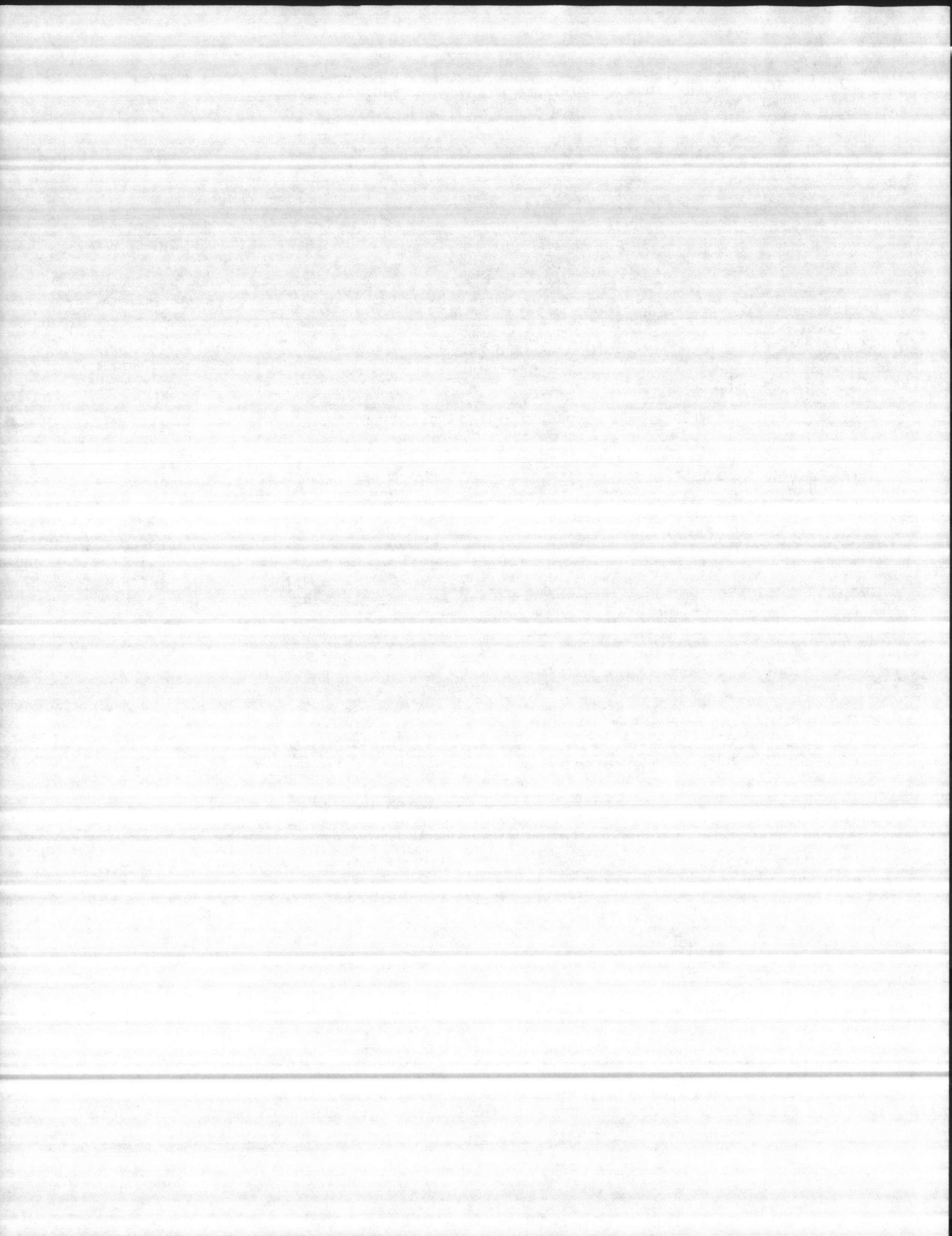
- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE 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  
4/25/86

SIGNATURE  
*M. Bensman*







HARRY PEPPER & ASSOCIATES, DIVISION

NAVAL FACILITIES ENGINEERING COMMAND

ITEM # 1

NOFOLK, VIRGINIA 23511  
ENGINEERING CONTRACTORS

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 [Signature] DATE **APR 25 1986**

FOR OFFICER IN CHARGE OF CONSTRUCTION

April 22, 1986

Henry Von Oesen & Associates, Inc.  
611 Princess Street  
Wilmington, North Carolina 28402

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

Well # 7

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 300 feet.

We recommend a line of 030 slot stainless steel screen set at the 70-80ft level and at the 120 - 160 ft level for a total of 50 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.

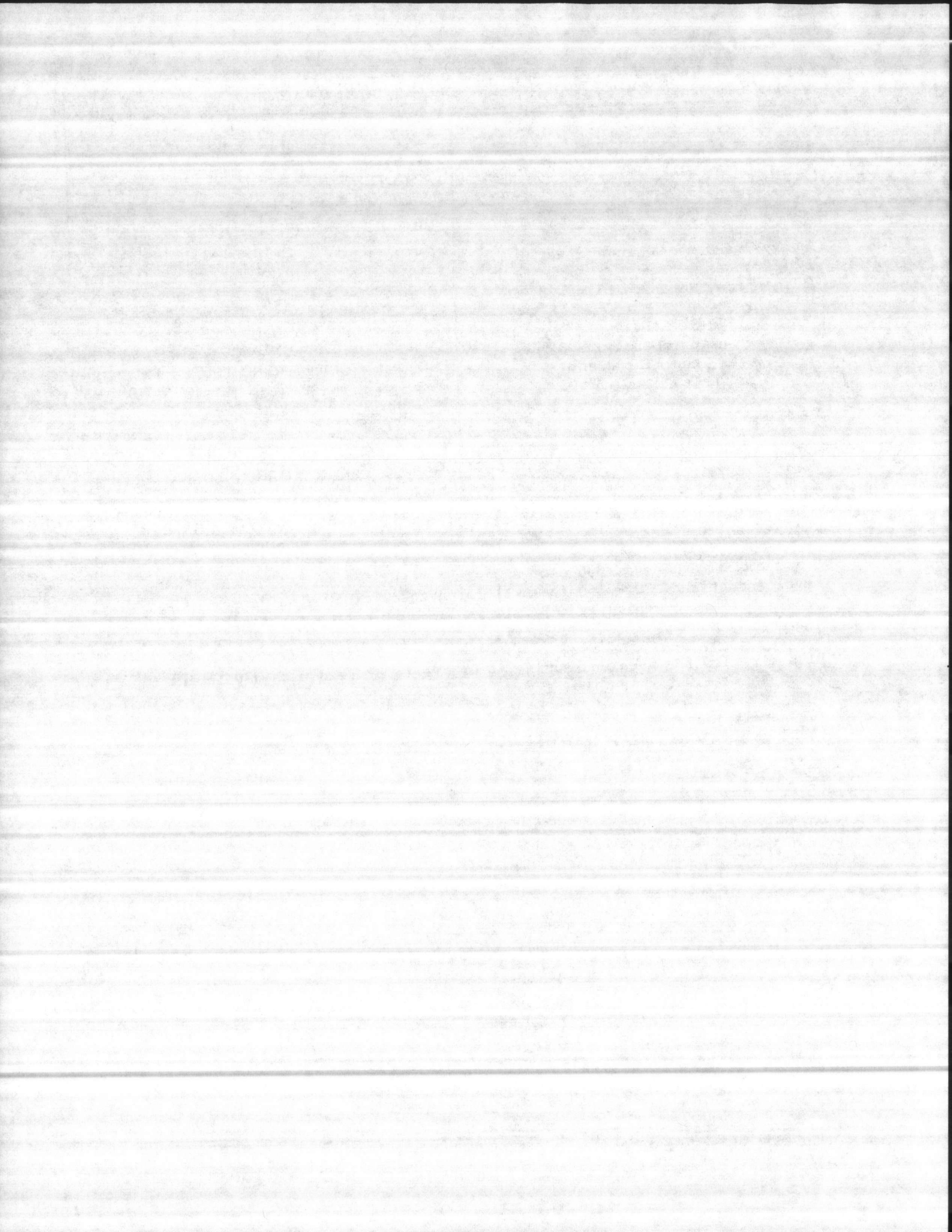
[Signature]  
Phil Reese  
CQC Officer

Enclosures

This document is the property of the Government and is loaned to you for your use only. It is to be returned to the Government upon completion of your work and should not be distributed outside your organization.

APPROVED BY \_\_\_\_\_  
 Submitted for Government approval.  
\_\_\_\_\_  
Approved for use subject to Government approval of specific deviation.

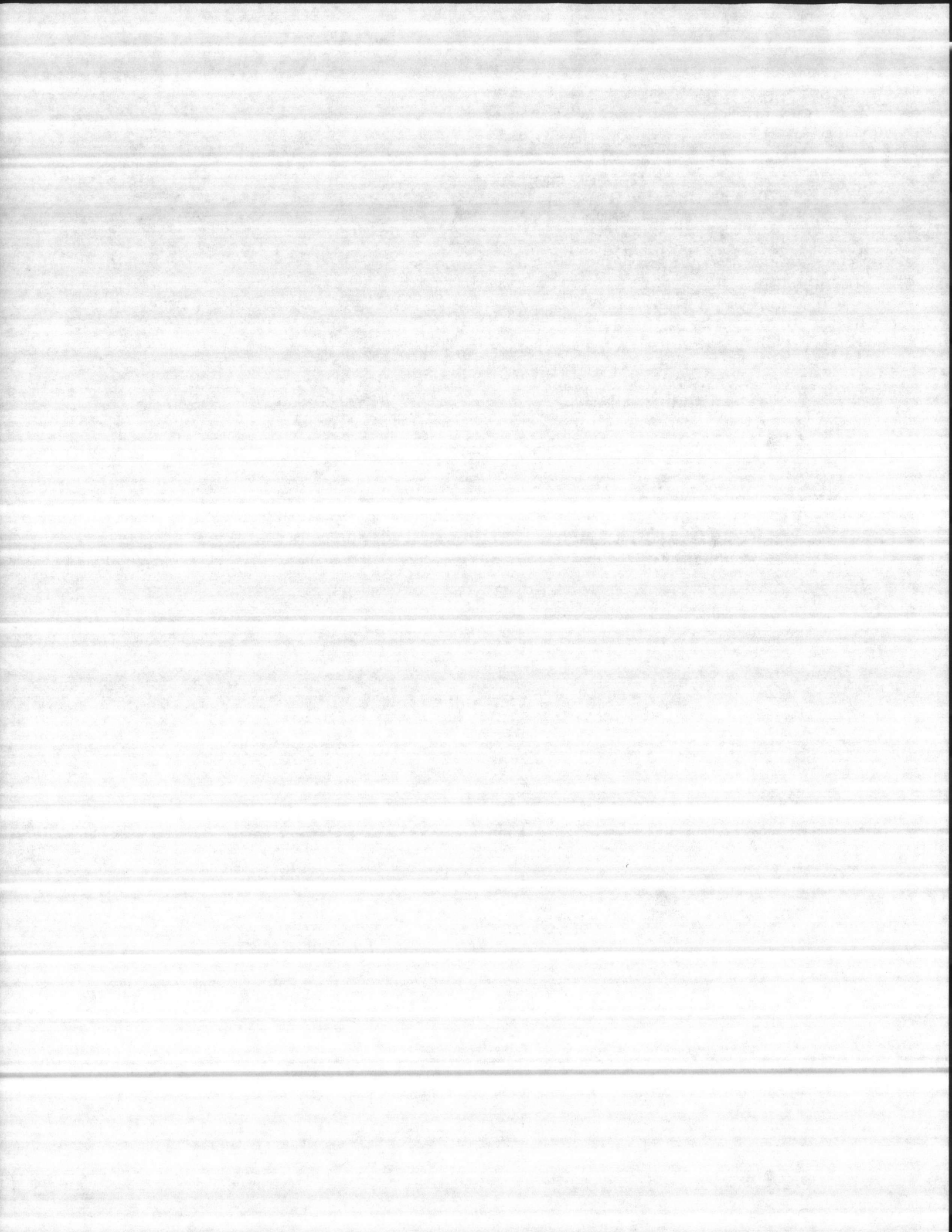
Authorized Reviewer \_\_\_\_\_ DATE \_\_\_\_\_  
Signature CQC Rep. [Signature] DATE 4-22-86



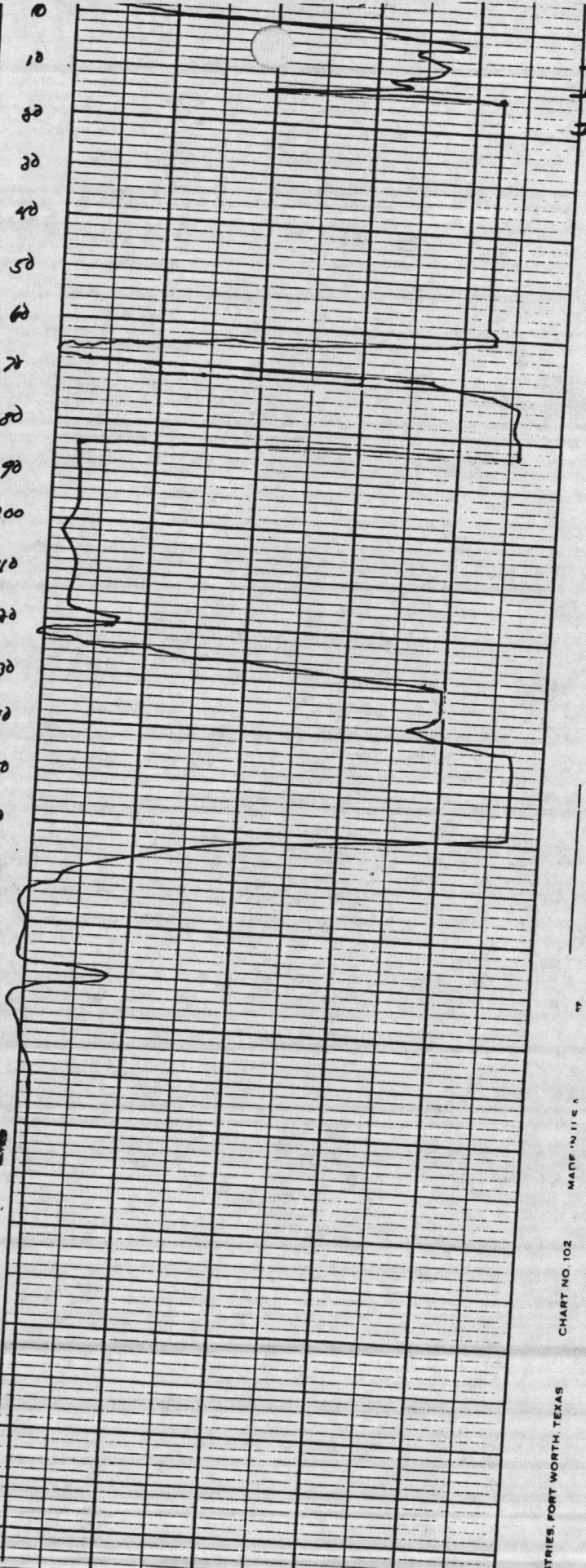
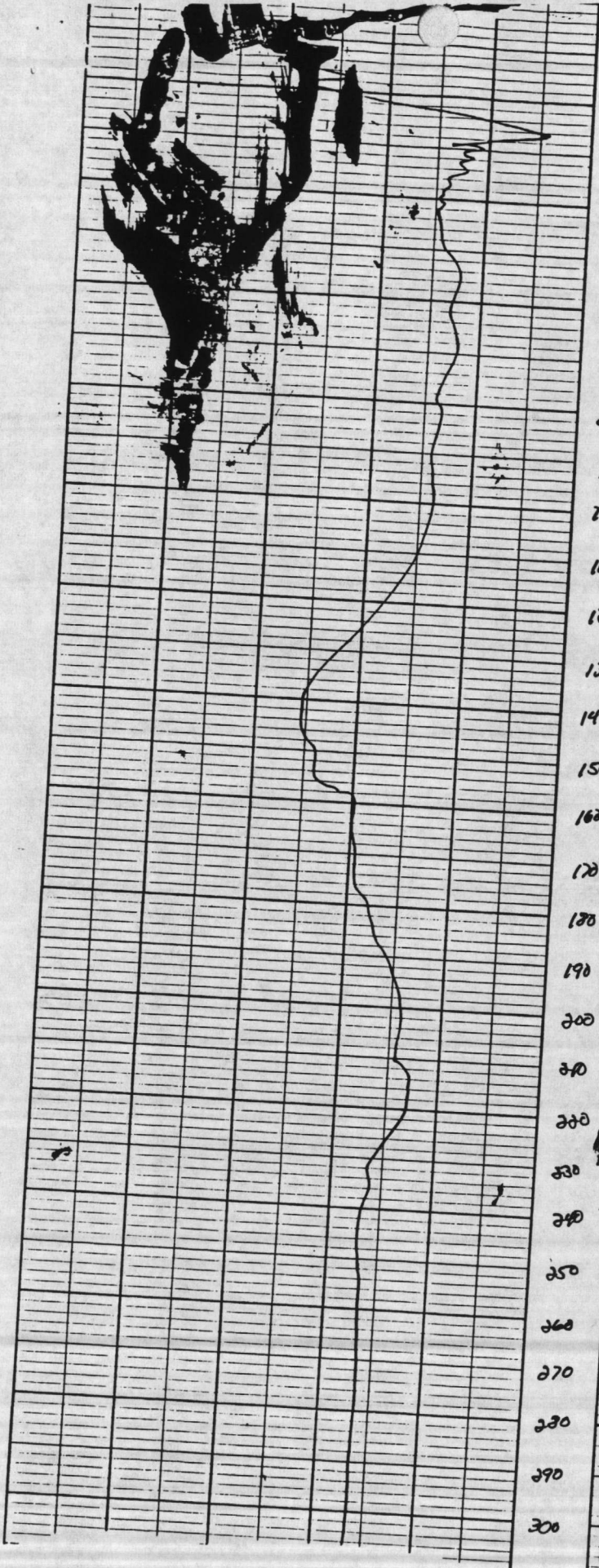
WELL DRILLERS LOG  
FCR - MABETTE WELL AND PUMP CO.  
PROJECT NAME: CAMP LEJEUNE WELL #7

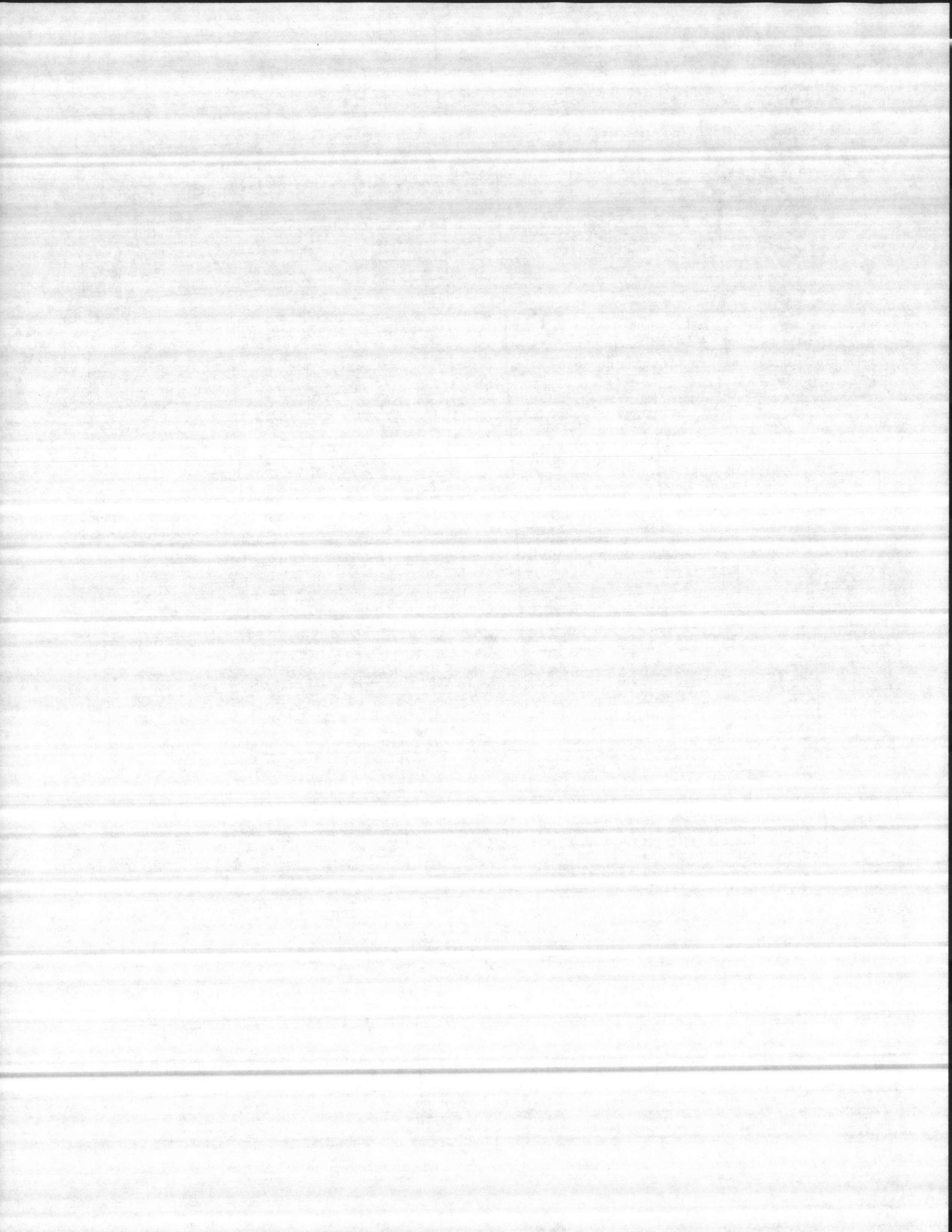
*Item  
#2*

DEPTH IN FEET		MATERIAL SAMPLED
0	- 15	BROWN SAND
15	- 35	GREY SAND
35	- 55	HARD LIMESTONE
55	- 70	HARD LIMESTONE SAND MIXED
70	- 80	LIMESTONE STRATA
80	- 85	LIMESTONE, BLUE CLAY MIXED
85	- 120	BLUE CLAY
120	- 160	LIMESTONE STRATA MIXED
160	- 170	LIMESTONE MIXED WITH BLUE CLAY
170	- 298	BLUE CLAY
298	- 300	HARD ROCK



Item #3





**AW & COMPANY**  
*Consulting and Analytical Chemists*

ESTABLISHED 1903

*Well #705*

*Item # 4*

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

REPORT DATE: 4-15-86

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

MAJETTE WELL & PUMP COMPANY  
 POST OFFICE BOX 908  
 SMITHFIELD, VA. 23430  
 ATTN: BUD KELLOG

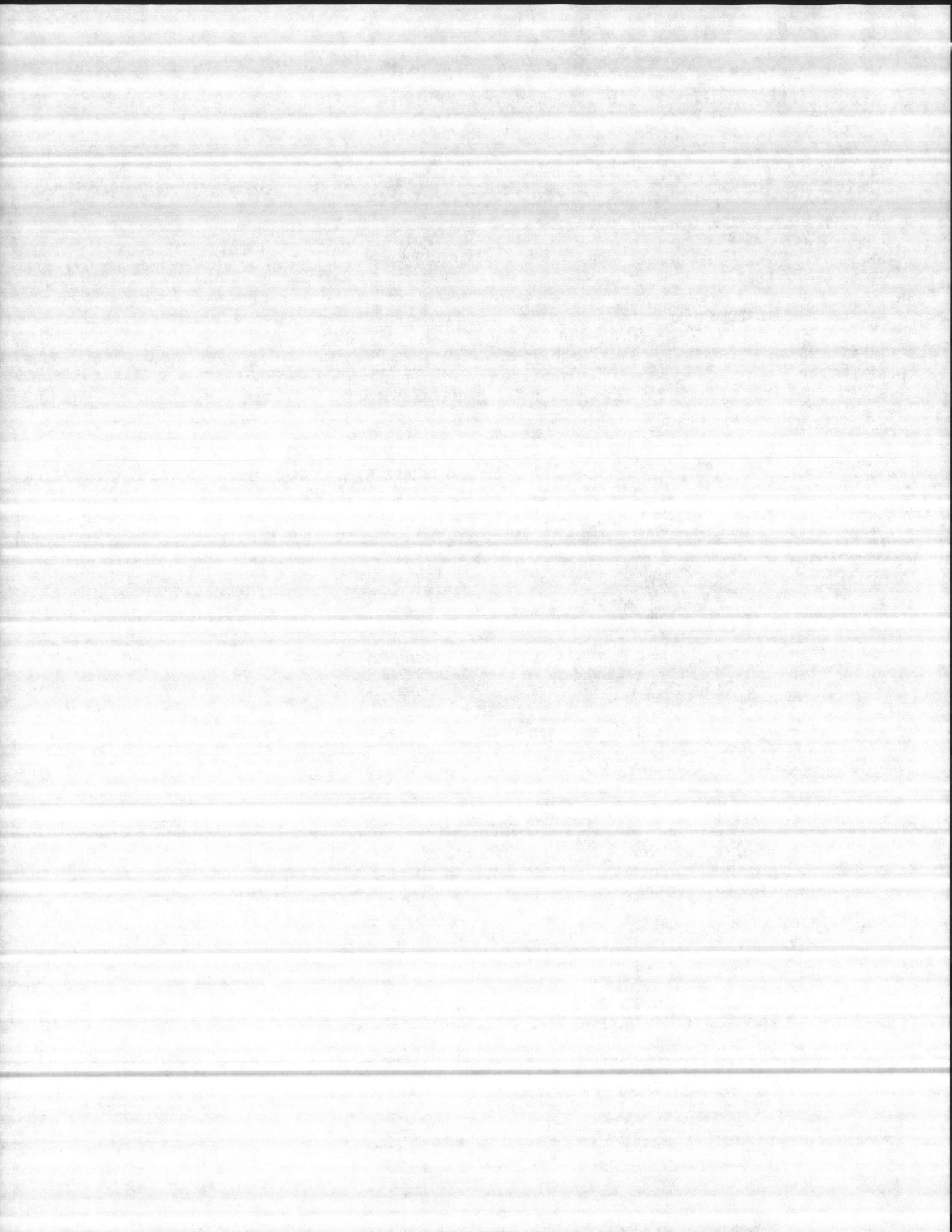
DATE COLLECTED: 4-08-86  
 DATE RECEIVED: 4-08-86  
 COLLECTED BY: CUSTOMER (CARL KELLOG)  
 LAB I.D.# EW 3796

SAMPLE DESCRIPTION: WELL #7 60'-80'

TESTS/SAMPLES	RESULTS	RESULTS
pH	8.1	POTASSIUM PPM 2.0
CARBON DIOXIDE PPM	0	CHLORIDE PPM 51
SULFIDES PPM	.12	NITRATE NITROGEN PPM <.2
CHLORINE DEMAND PPM	1.4	IRON PPM 1.55
COLOR APHA	160	MANGANESE PPM .045
TURBIDITY NTU	40	SILICON PPM 7.0
TOTAL ALKALINITY PPM	198	FLOURIDE PPM .28
HYDROXIDE PPM	0	DISSOLVED OXYGEN MG/L 6.5
BICARBONATE PPM	11	TEMPERATURE 60°F
CARBONATE PPM	187	
TOTAL HARDNESS PPM	145	
NON-CARBONATE PPM	0	
CARBONATE PPM	145	
TOTAL DISSOLVED SOLIDS PPM	175	
SPECIFIC CONDUCTANCE UMHOS	300	
SULFATES PPM	1.7	
CALCIUM PPM	54	
MAGNESIUM PPM	1.3	
SODIUM PPM	10.6	

CHEMIST: *Jolly Bidutan*

TOTAL CHARGES: 180.00





**AW & COMPANY**  
*Consulting and Analytical Chemists*

ESTABLISHED 1903

Well #705

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

REPORT DATE: 4-15-86

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

MAJETTE WELL & PUMP COMPANY  
 POST OFFICE BOX 908  
 SMITHFIELD, VA. 23430  
 ATTN: BUD KELLOG

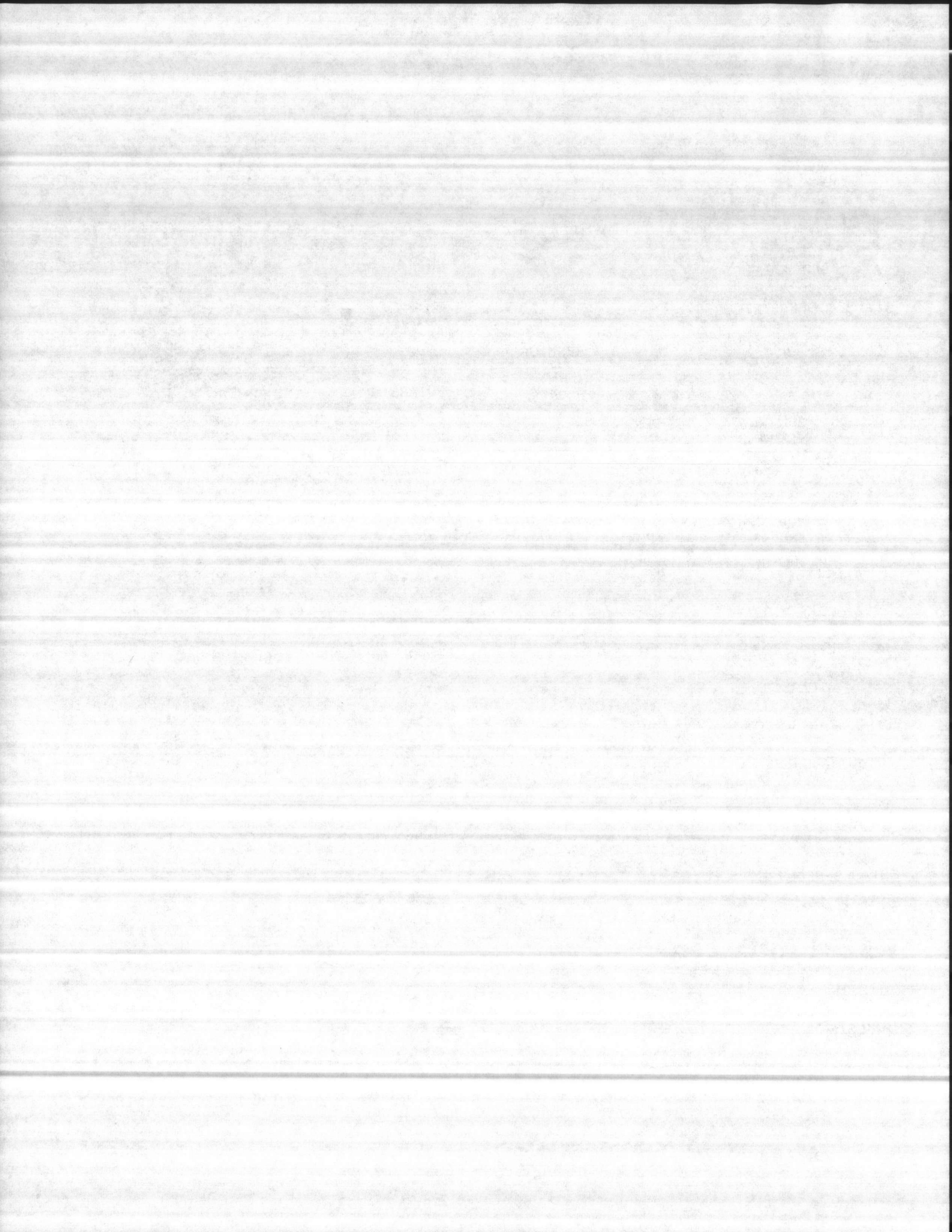
DATE COLLECTED: 4-08-86  
 DATE RECEIVED: 4-08-86  
 COLLECTED BY: CUSTOMER (CARL KELI  
 LAB I.D.# EW 3796-1

SAMPLE DESCRIPTION: WELL #7 130'-150'

TESTS/SAMPLES	RESULTS	RESULTS
pH	8.0	POTASSIUM PPM 2.0
CARBON DIOXIDE PPM	0	CHLORIDE PPM 40
SULFIDES PPM	<.05	NITRATE NITROGEN PPM <.2
CHLORINE DEMAND PPM	1.4	IRON PPM 1.5
COLOR APHA	140	MANGANESE PPM .045
TURBIDITY NTU	46	SILICON PPM 8.75
TOTAL ALKALINITY PPM	192	FLOURIDE PPM .27
HYDROXIDE PPM	0	DISSOLVED OXYGEN MG/L 6.5
BICARBONATE PPM	15	TEMPERATURE 60°F
CARBONATE PPM	177	
TOTAL HARDNESS PPM	150	
NON-CARBONATE PPM	0	
CARBONATE PPM	150	
TOTAL DISSOLVED SOLIDS PPM	181	
SPECIFIC CONDUCTANCE UMHOS	295	
SULFATES PPM	2.5	
CALCIUM PPM	46	
MAGNESIUM PPM	1.3	
SODIUM PPM	10.4	

CHEMIST: Jolly Beshiri

TOTAL CHARGES: 180.00



# HOWARD SMITH SCREEN COMPANY

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

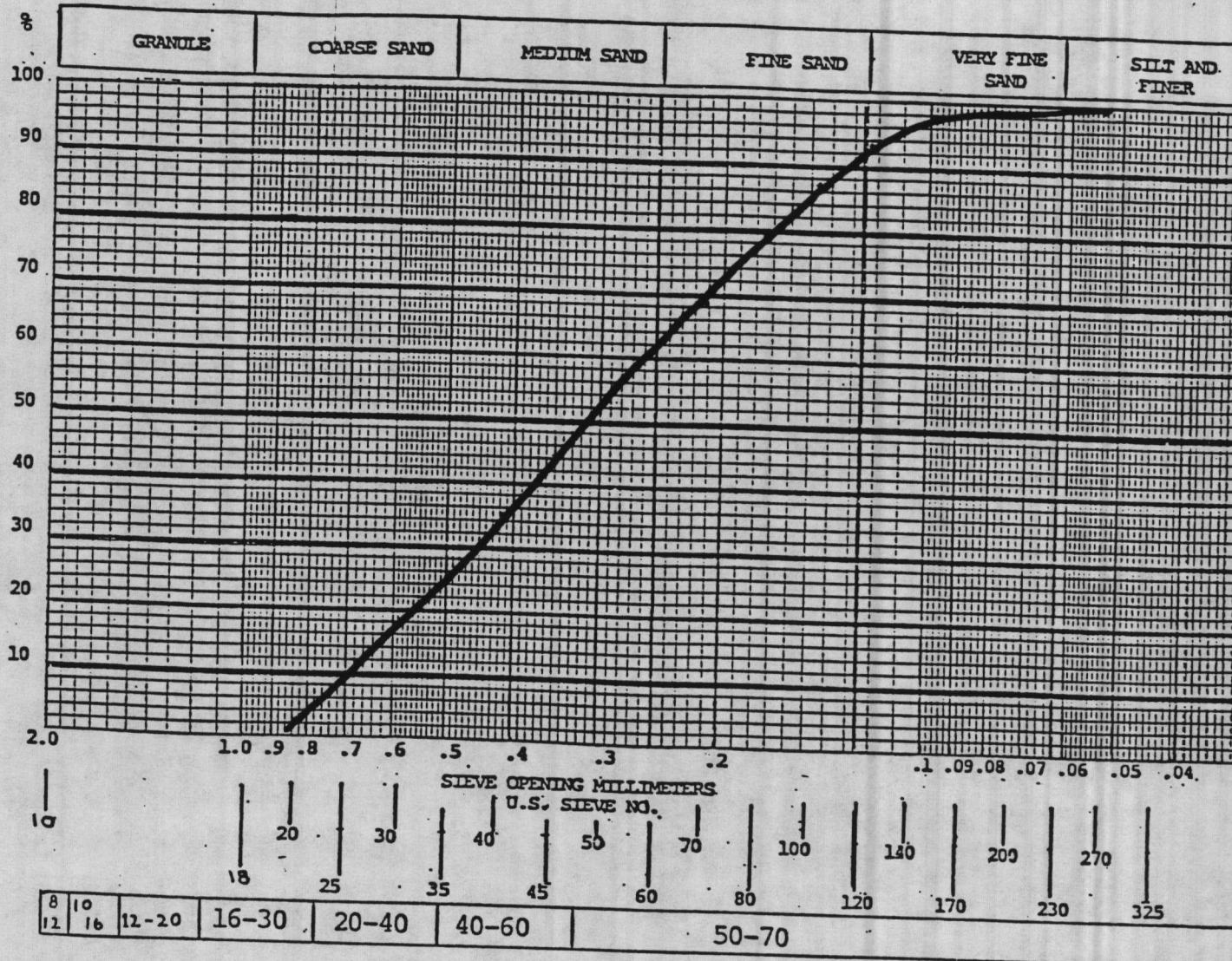
COMPANY...R.L.MAGETTE COMPANY  
WELL.....#7  
DEPTH.....70-80  
FIELD.....-  
COUNTY.....-  
STATE.....VA

CONTACT...BUD KELLOG  
TELEPHONE.804-357-4105  
REMARKS...WATER WELL  
RECOMMENDATIONS:  
GRAVEL SIZE-----  
SCREEN SIZE-----

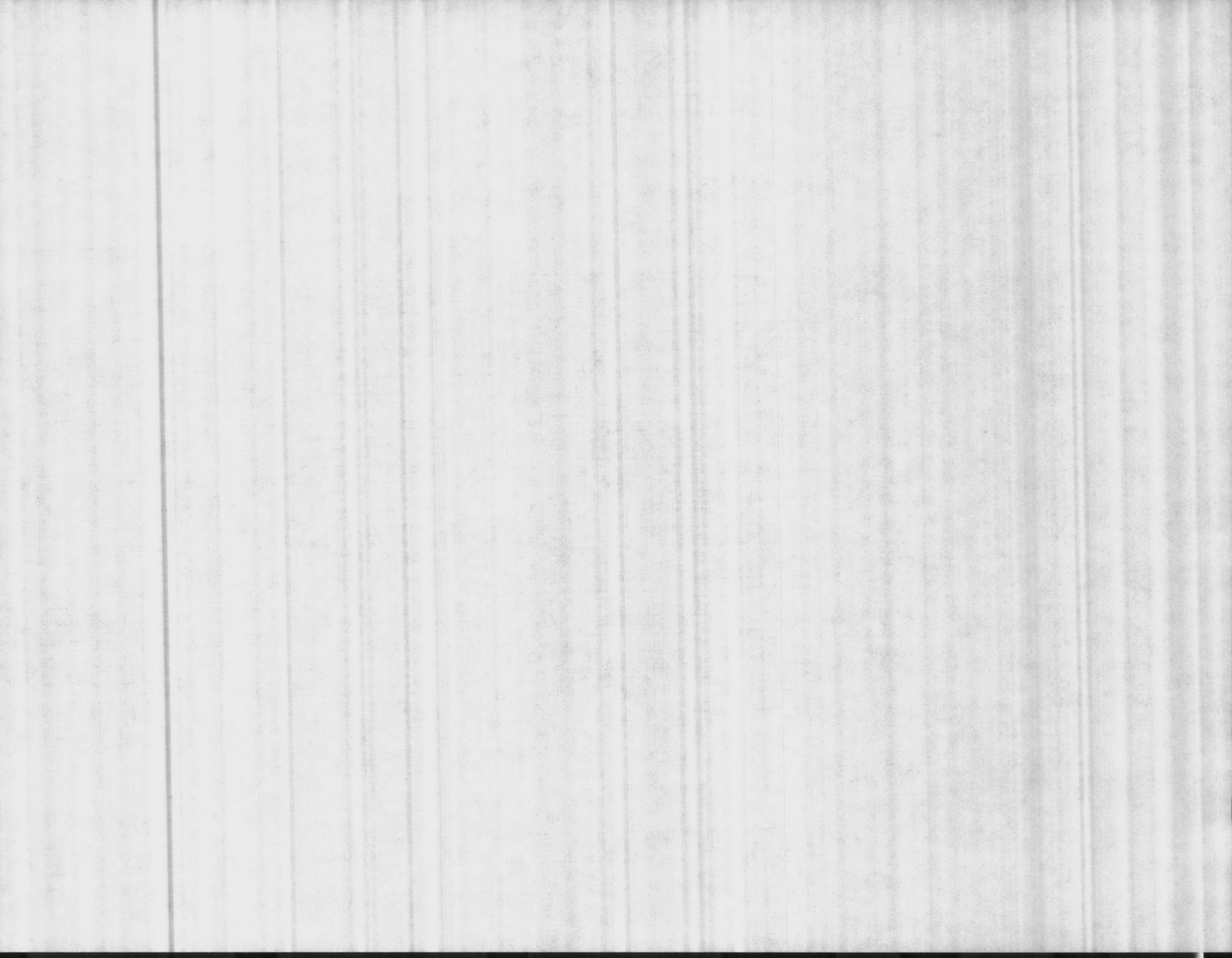
*Item # 5*

## SIEVE ANALYSIS REPORT

US SIEVE	IN	MM	WT RET	CUM WT	CUM %
10	.0787	2.000	--	--	--
14	.0555	1.410	--	--	--
18	.0394	1.000	--	--	--
20	.0331	0.640	--	--	--
25	.0280	0.710	--	--	--
30	.0234	0.589	5.9	5.9	18.0
35	.0197	0.500	2.4	8.3	25.4
40	.0165	0.420	3.3	11.6	35.5
45	.0139	0.351	3.0	14.6	44.6
50	.0117	0.297	2.7	17.3	52.9
60	.0098	0.250	2.9	20.2	61.8
70	.0083	0.210	2.2	22.4	68.5
80	.0070	0.177	3.6	26.0	79.5
100	.0059	0.149	2.5	28.5	87.2
120	.0049	0.124	1.9	30.4	93.0
140	.0041	0.104	1.1	31.5	96.3
170	.0035	0.088	0.7	32.2	98.5
200	.0029	0.074	0.3	32.5	99.4
230	.0024	0.062	0.1	32.6	99.7
270	.0021	0.053	0.1	32.7	100.0
325	.0017	0.044	--	--	--
<325			--	--	--



4-11-86  
JAMES E JACKSON



CONTACT...BUD KELLOG  
 TELEPHONE.804-357-4105  
 REMARKS...WATER WELL  
 RECOMMENDATIONS:  
 GRAVEL SIZE-----  
 SCREEN SIZE-----

# 1755L

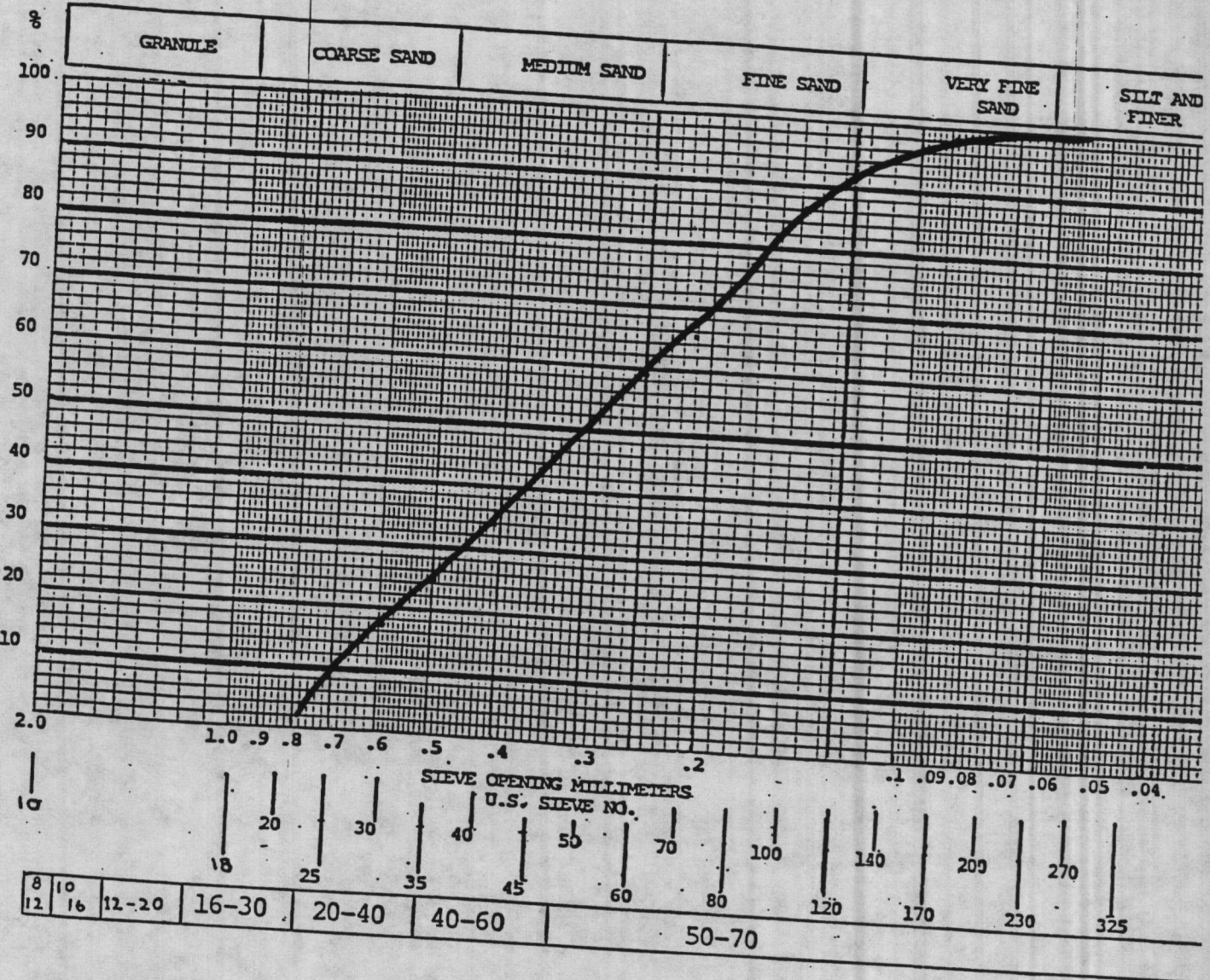
## HOWARD SMITH SCREEN COMPANY

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

COMPANY...R.L.MAGETTE COMPANY  
 WELL.....#7  
 DEPTH.....125-170  
 FIELD.....-  
 COUNTY.....-  
 STATE.....VA

### SIEVE ANALYSIS REPORT

US SIEVE	IN	MM	WT RET	CUM WT	CUM %
10	.0787	2.000	--	--	--
14	.0555	1.410	--	--	--
18	.0394	1.000	--	--	--
20	.0331	0.840	--	--	--
25	.0280	0.710	--	--	--
30	.0234	0.589	6.0	6.0	17.3
35	.0197	0.500	2.5	8.5	24.5
40	.0165	0.420	3.5	12.0	34.6
45	.0139	0.351	2.9	14.9	42.9
50	.0117	0.297	2.5	17.4	50.1
60	.0098	0.250	3.1	20.5	59.1
70	.0083	0.210	2.3	22.8	65.7
80	.0070	0.177	4.0	26.8	77.2
100	.0059	0.149	2.9	29.7	85.6
120	.0049	0.124	2.2	31.9	91.9
140	.0041	0.104	1.2	33.1	95.4
170	.0035	0.088	0.9	34.0	98.0
200	.0029	0.074	0.5	34.5	99.4
230	.0024	0.062	0.1	34.6	99.7
270	.0021	0.053	0.1	34.7	100.0
325	.0017	0.044	--	--	--
<325			--	--	--



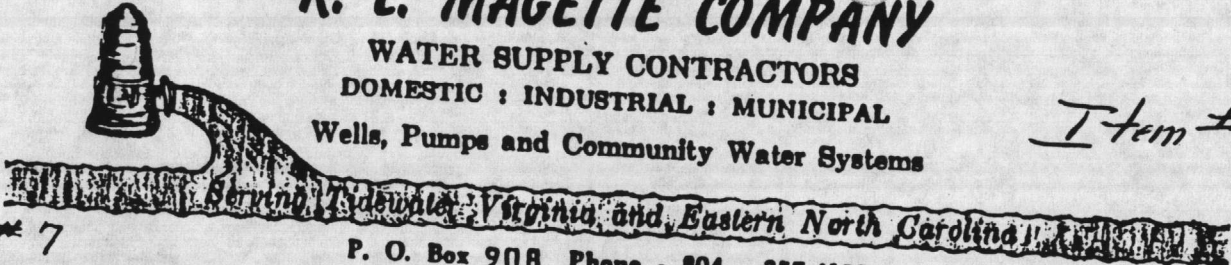
4-11-86  
 JAMES E JACKSON



# K. L. MAGETTE COMPANY

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

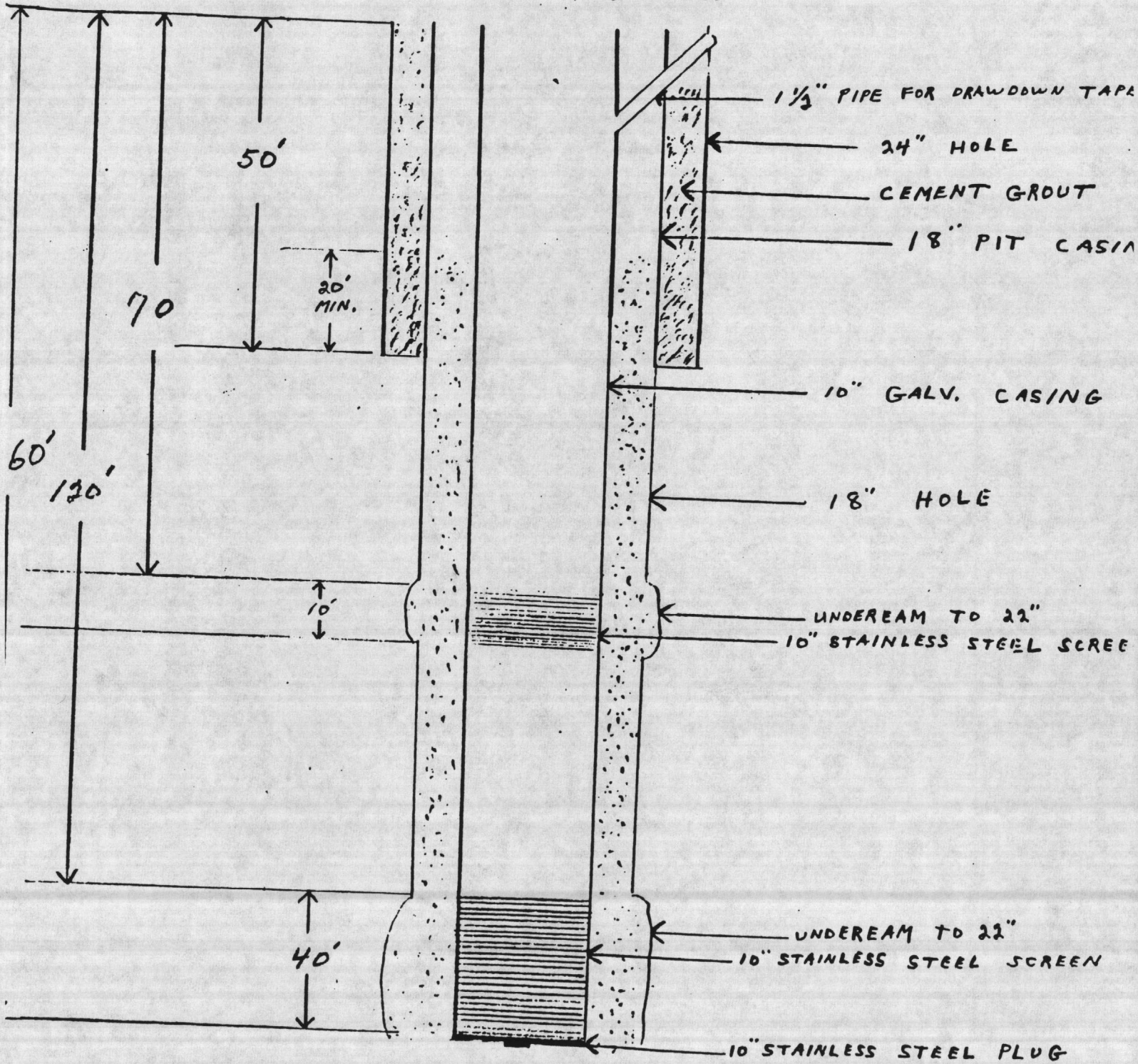
Item #6

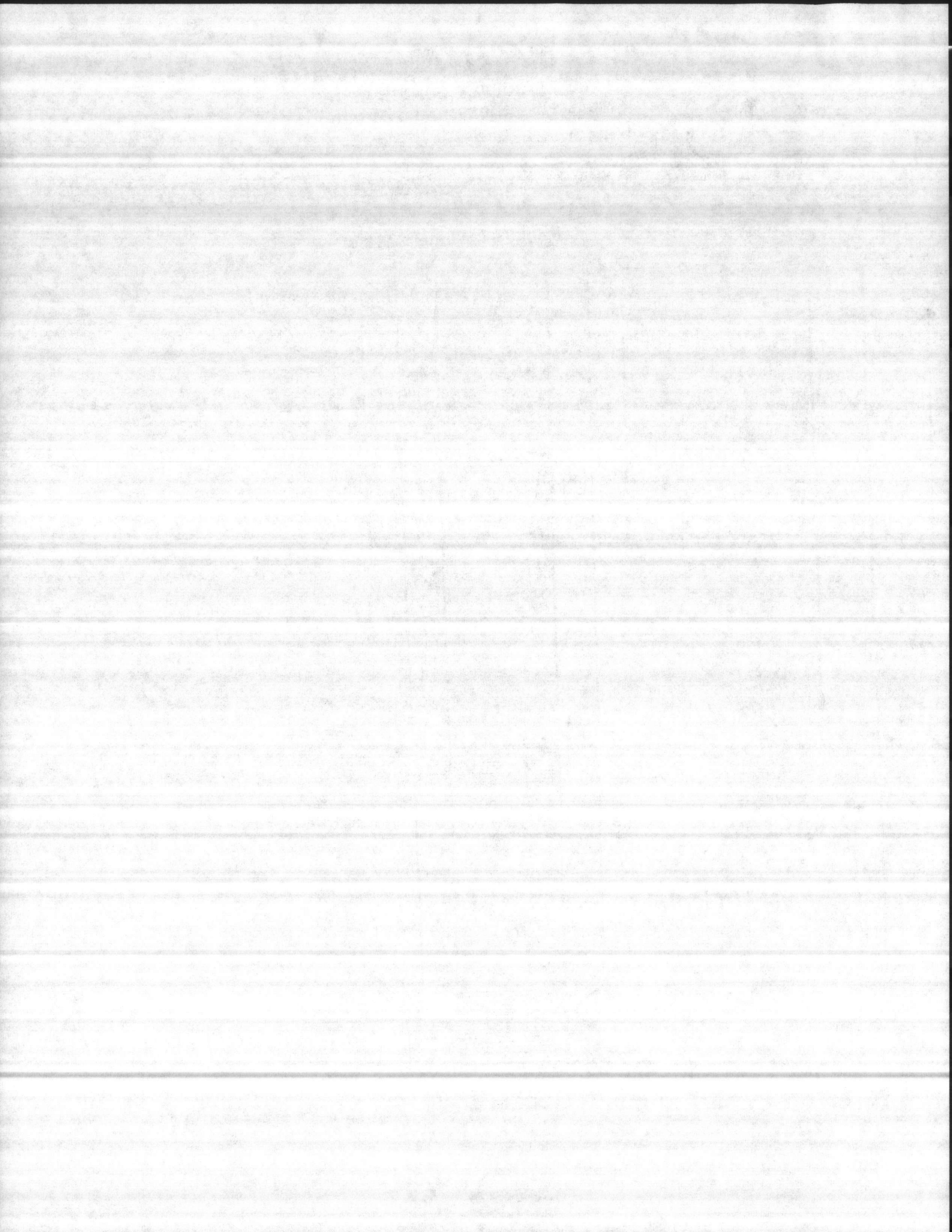


WELL #7

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

Smithfield, Virginia 23430







CAMP LEJEUNE No. 7 WELL

# DEMING PUMP CO.

SALEM, OHIO, U.S.A.

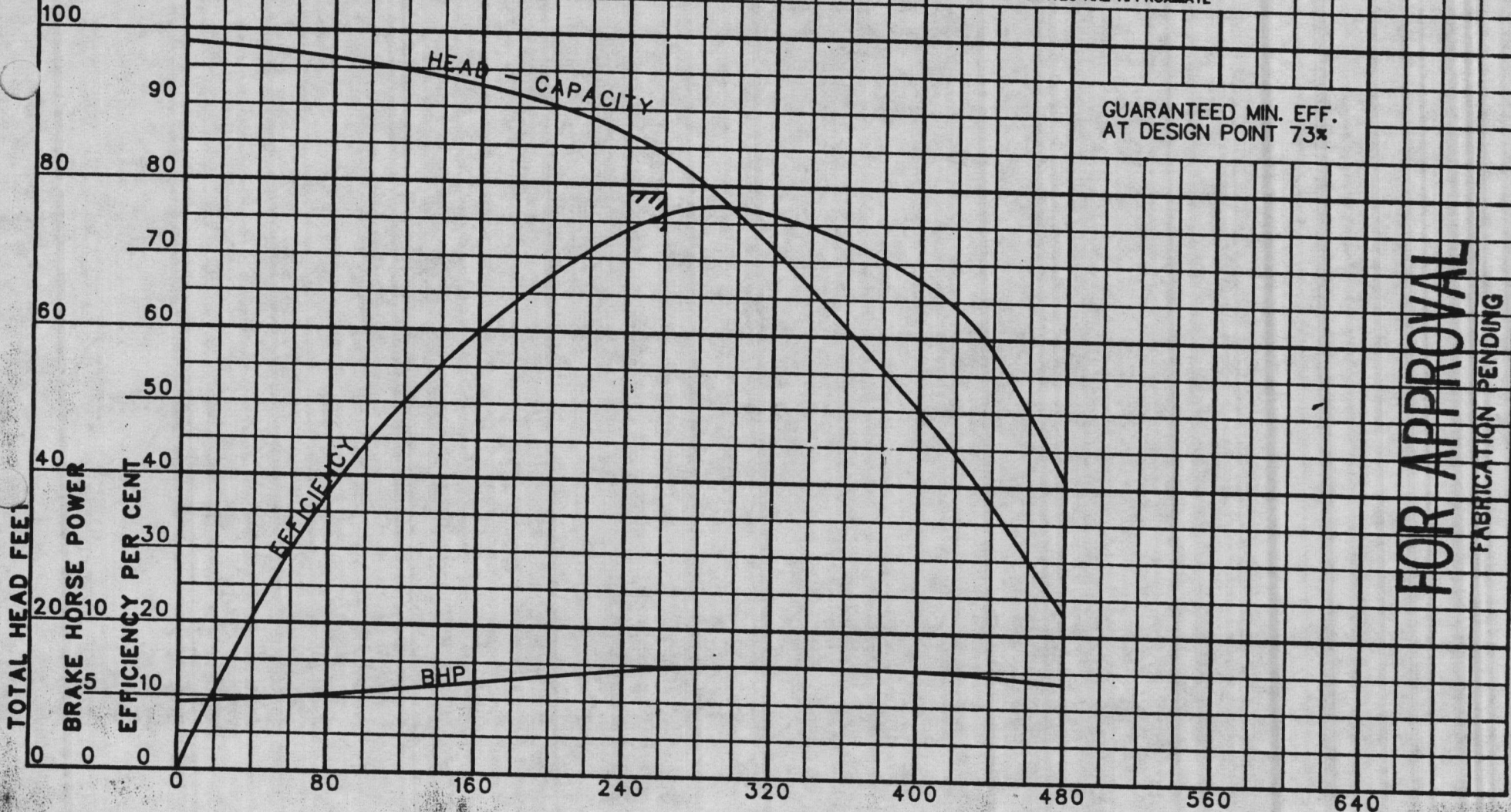
120 HARRY PEPPER & Assoc. S.D. 1635-07 P.O. C642-0001

## CHARACTERISTIC CURVES

FIG. 4700 SIZE M 8 STAGES 4 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 79 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE



GUARANTEED MIN. EFF. AT DESIGN POINT 73%

FOR APPROVAL  
FABRICATION PENDING

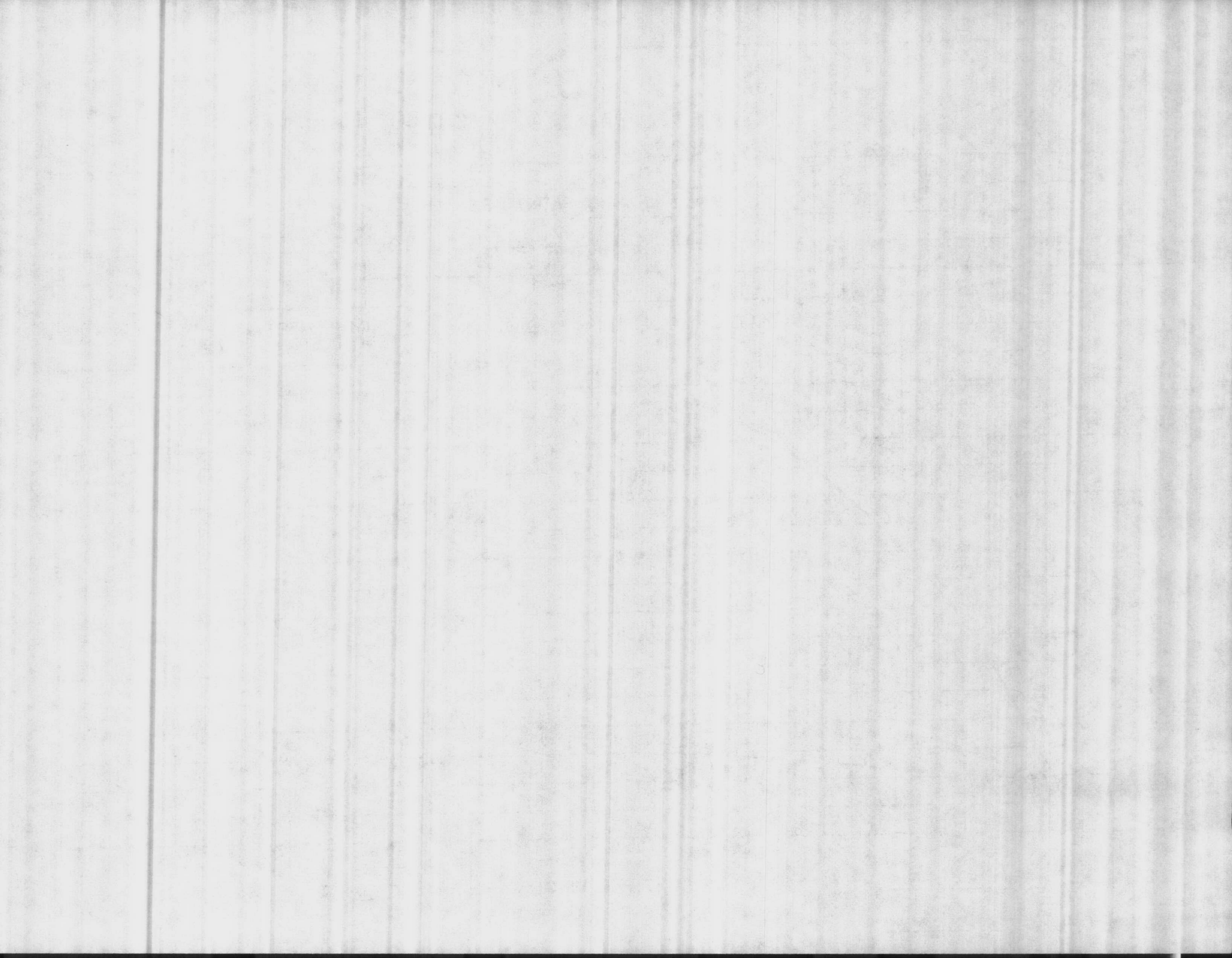
SERIAL NO. \*\*\*\*

U. S. GALLONS PER MINUTE

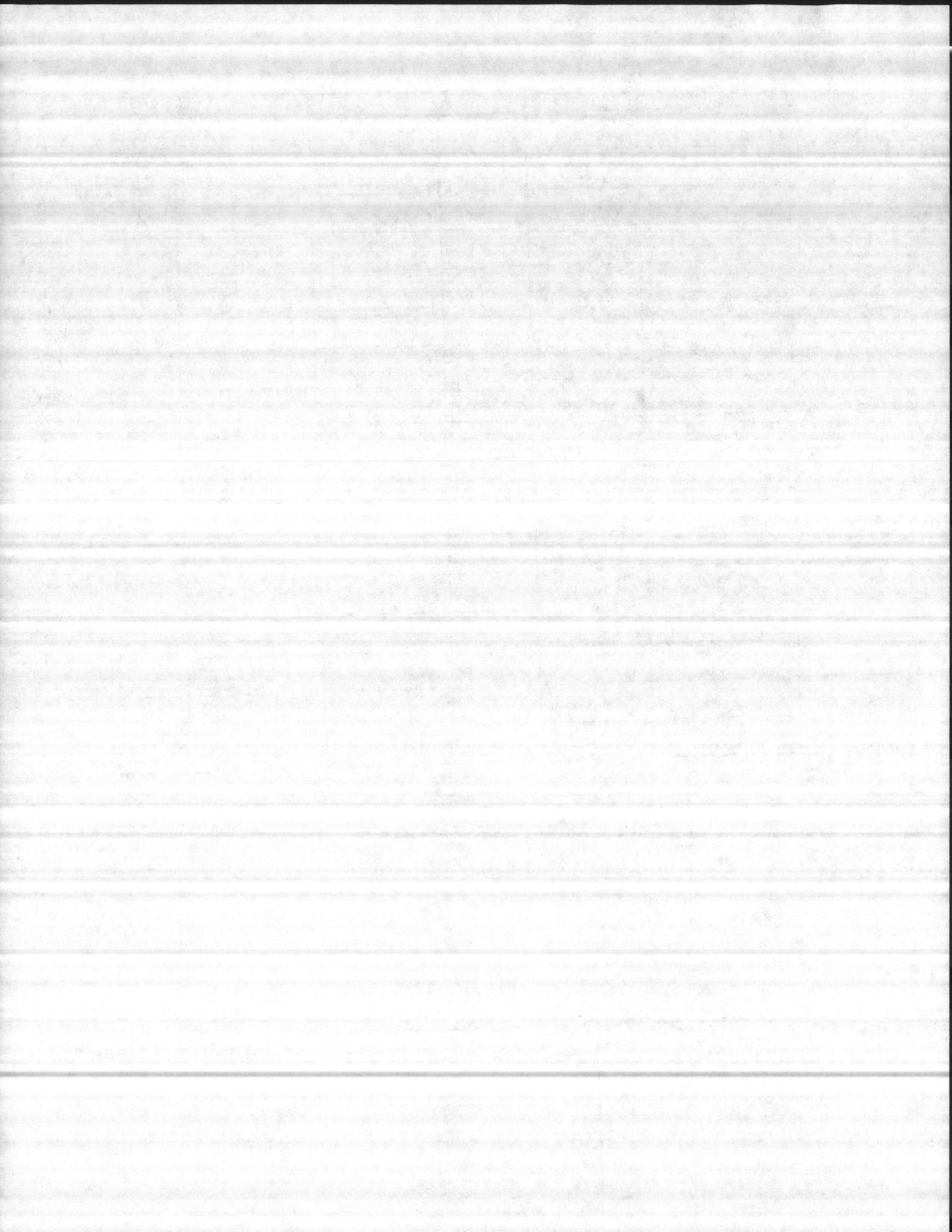
DATE 2-20-85

IMP. DIA. 5 1/4"

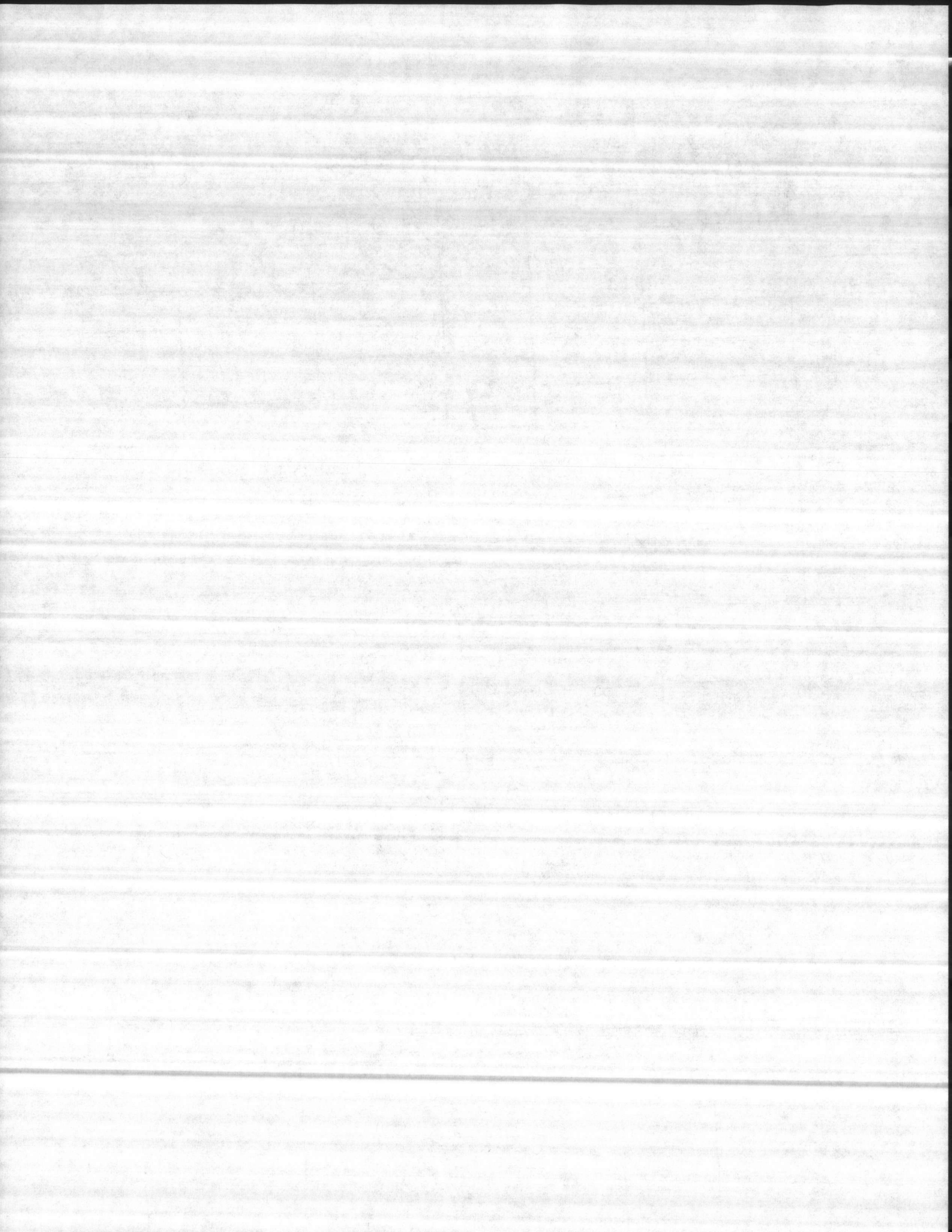
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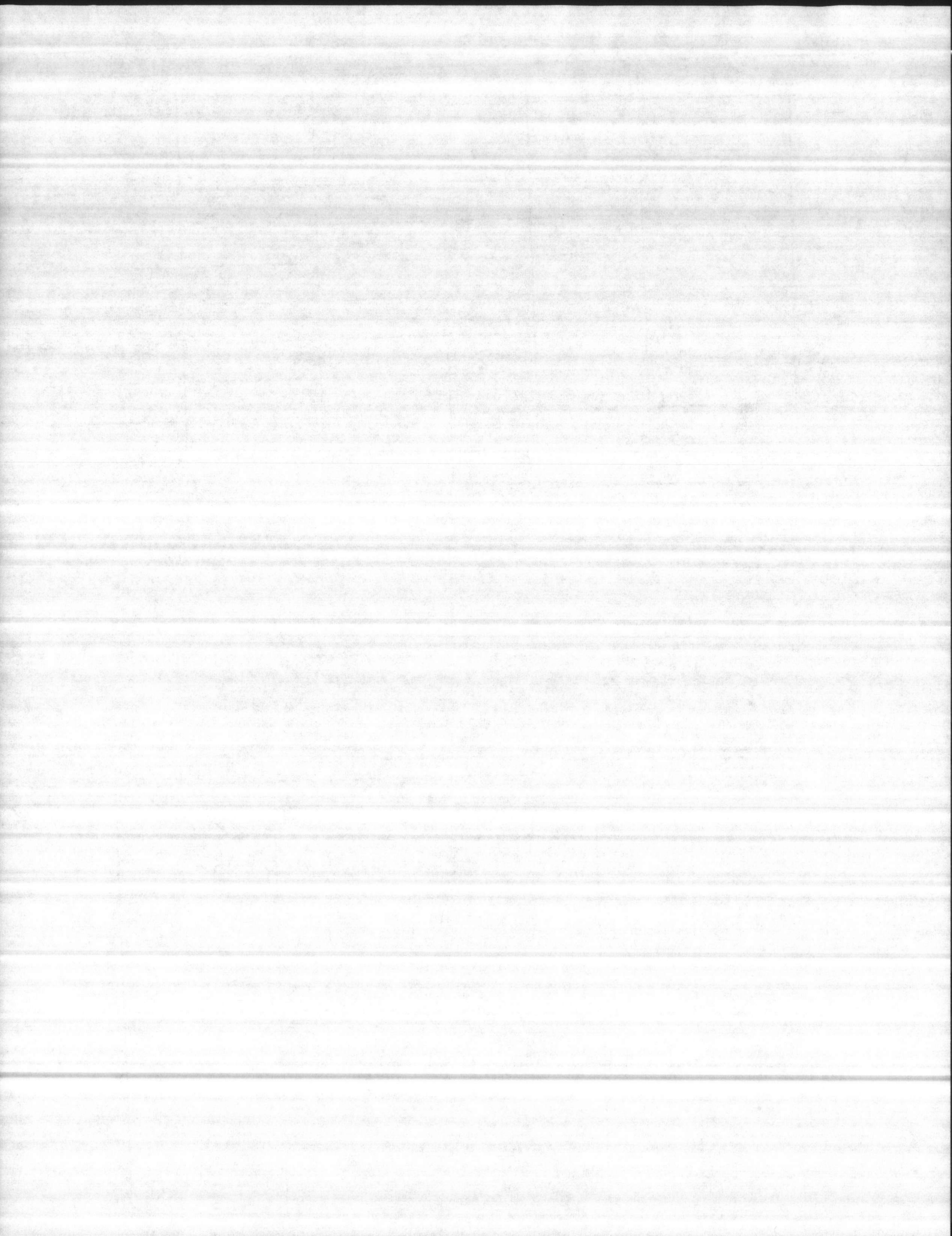














Hunt

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

CONTRACT NO 81-C-1644  
TRANSMITTAL NO 205  
DATE 5-15-86

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
1	02734	ROTARY DRILLED WATER WELLS WELL # 7 Step Test	7	A	JRB

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC  
 ONE COPY TO ROICC  
 DATE RECEIVED BY REVIEWER 5/20/86  
 FROM (Reviewer) Henry von Oesen & Assoc., Inc.  
 CONTRACTOR REPRESENTATIVE (Signature) Phil Reese  
 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.

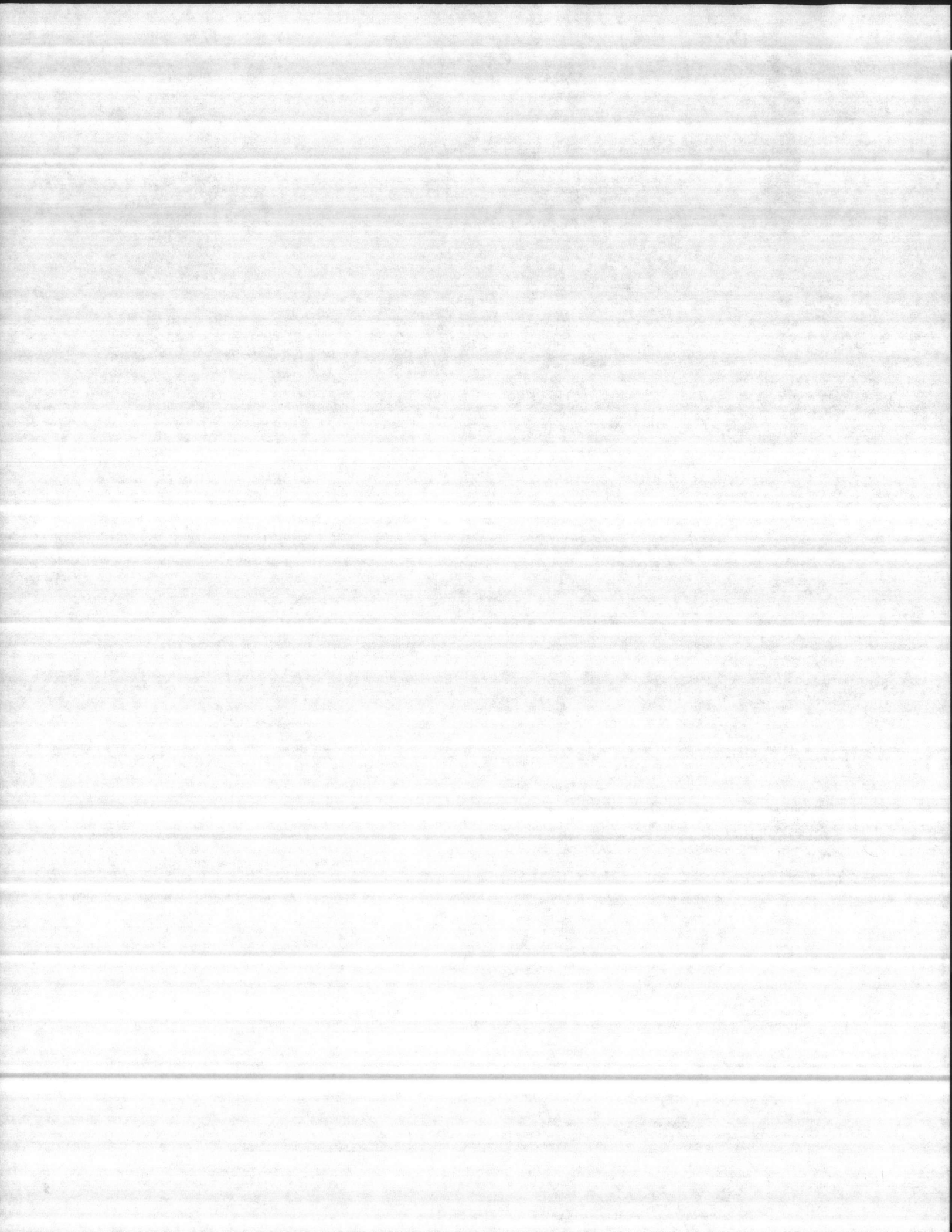
REVIEWER'S COMMENTS

SUGGEST RUN 24 Hour TEST AT 300 GPM

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

DATE 5/23/86

SIGNATURE *[Signature]*



Step Test  
Well # 7

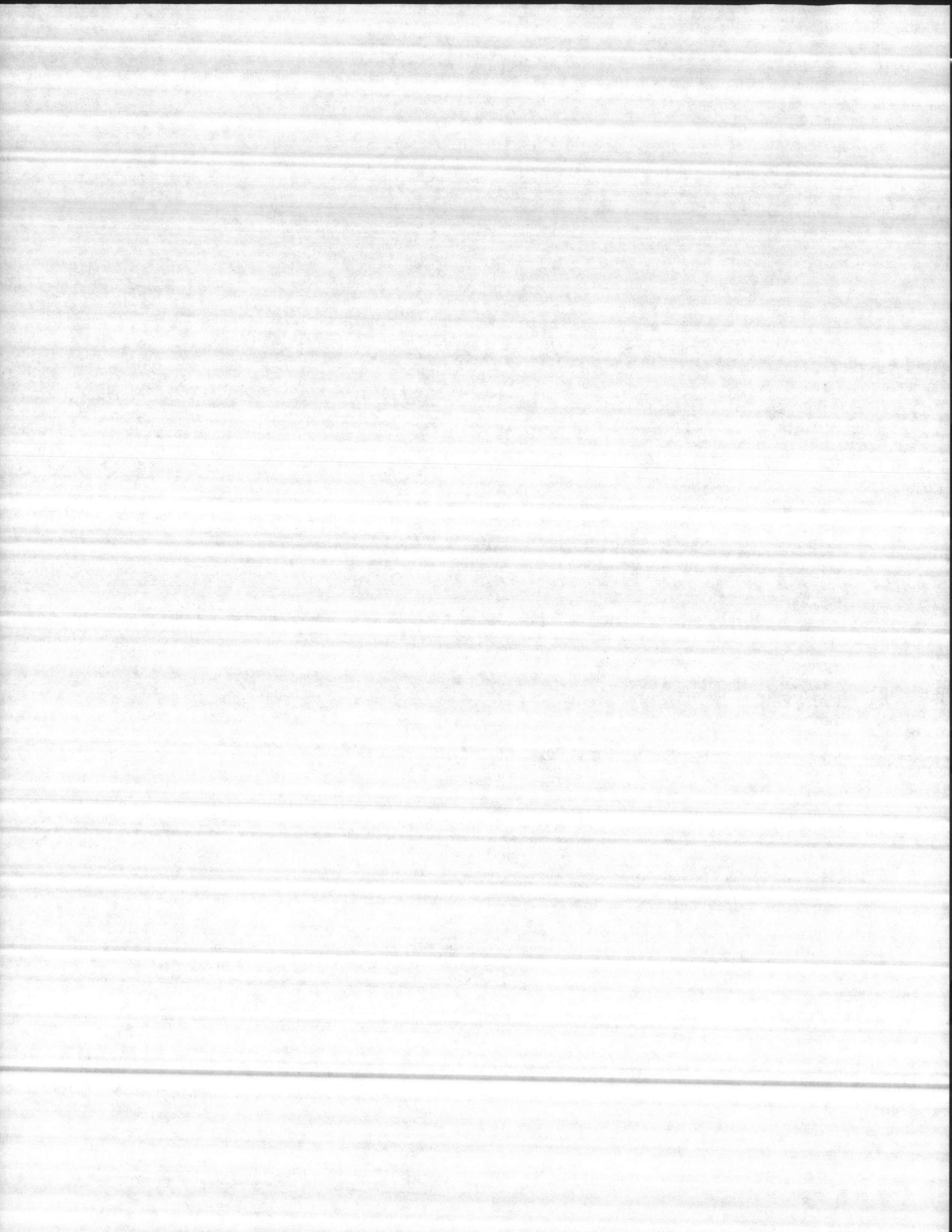
ITEM #1

TIME	STATIC	PUMPING LEVEL	PUMPING RATE	
3:15	20'6"	25'1	100 GPM	
3:30		25'6	"	
3:45		25'9	"	
4:00		26'3	"	
4:30		26'9	"	
5:00		26'11	"	
5:30	27'	"		
6:00	27'2	"		
6:15	30'2	150 GPM	6	
6:30	31'6			"
6:45	32'1			"
7:00	32'5	"	5	
7:30	32'10	"		
8:00	33'3	"		
8:30	33'3	"		
9:00	33'5	"		
9:15	36'	200 GPM		6
9:30	36'4		"	
9:45	36'8		"	
10:00	37'2	"	6	
10:30	37'6	"		
11:00	37'9	"		
11:30	37'11	"		
12:00	38'	250 GPM		6
12:15	41'8			
12:30	42'1		"	
12:45	42'9	"	6	
1:00	43'2	"		
1:30	43'10	"		
2:00	43'10	"		
2:30	43'11	"		
3:00	47'6	300 GPM		6
3:15	48'3		"	
4:00	48'10		"	
4:30	49'1	"	6	
5:00	49'6	"		
5:30	49'10	"		
6:00	50'2	"		
		50'2	"	

I am 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 5-15-86



Hunt

**CONTRACTOR'S SUBMITTAL TRANSMITTAL**

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

CONTRACT NO 81-C-1644	TRANSMITTAL NO 205	DATE 5-15-86
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FROM CONTRACTOR

Harry Pepper & Associates Inc

PROJECT TITLE AND LOCATION

Holcomb Blvd Water Treatment Plant

TO

Henry Von Oesen & Associates, Inc.

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	7	A	JRB

CONTRACTOR'S COMMENTS

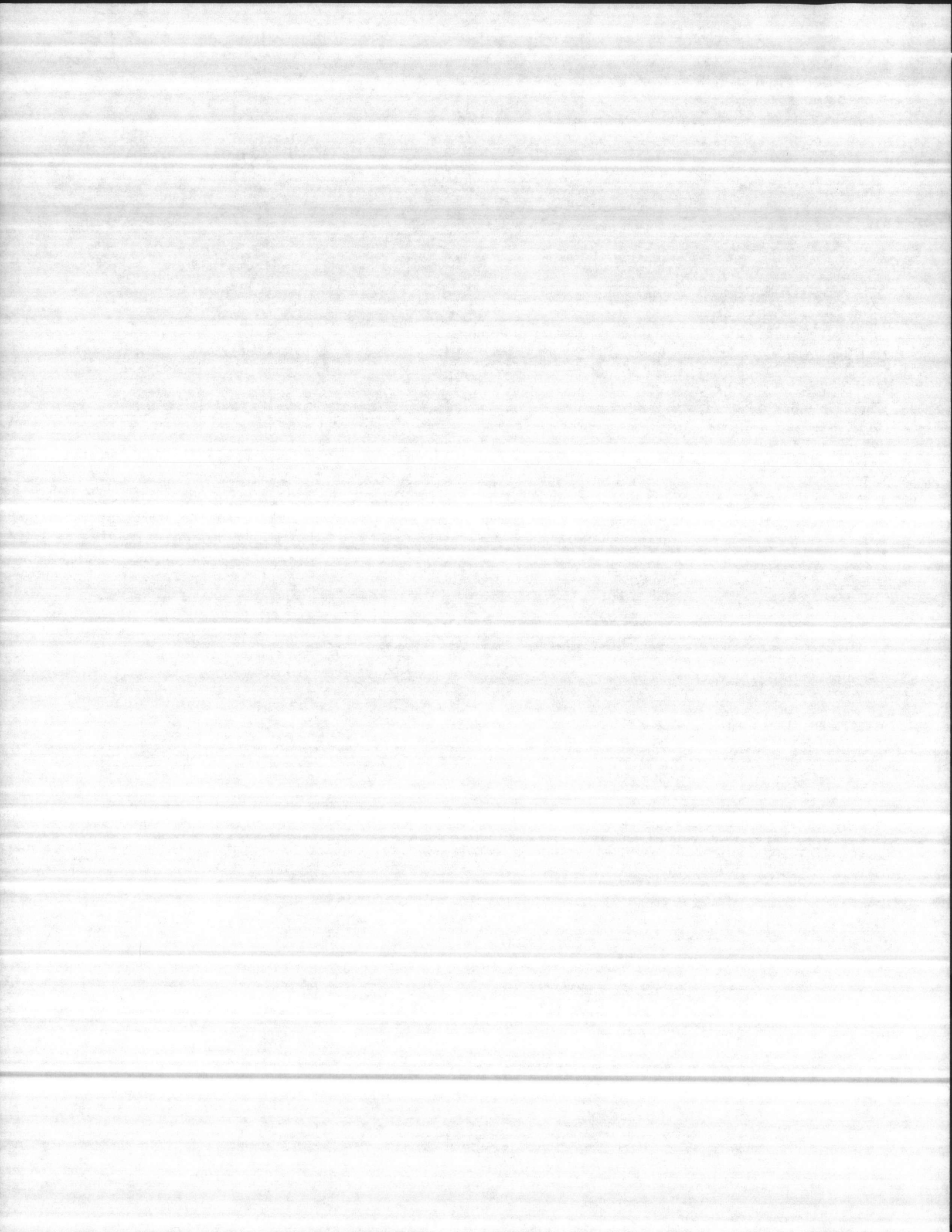
COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC	CONTRACTOR REPRESENTATIVE (Signature) Phil Reese <i>Phil Reese</i>
ONE COPY TO ROICC	
DATE RECEIVED BY REVIEWER 5/20/86	FROM (Reviewer) Henry von Oesen & Assoc., Inc.
	TO

- 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

SUGGEST RUN 24 Hour TEST AT 200 GPM

COPIES TO ROICC (2) LANTDIV (1) A-E (1)	DATE 5/23/86	SIGNATURE <i>[Signature]</i>
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Step Test  
Well # 7

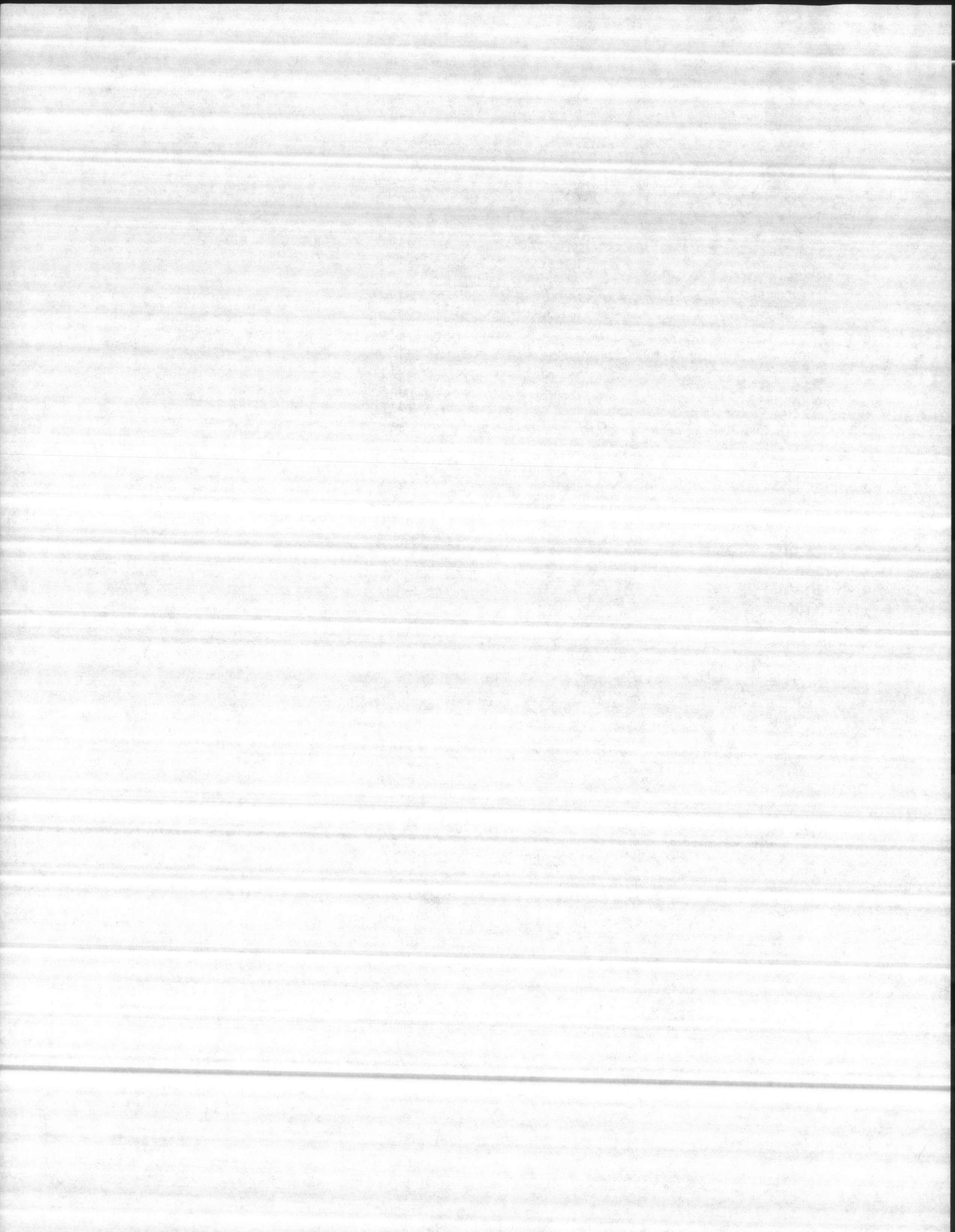
ITEM #1

TIME	STATIC	PUMPING LEVEL	PUMPING RATE
3:15	20'6"	25'1	100 GPM
3:30		25'6	"
3:45		25'9	"
4:00		26'3	"
4:30		26'9	"
5:00		26'11	"
5:30	27'	"	
6:00	27'2	"	
6:15	30'2	150 GPM	
6:30	31'6		"
6:45	32'1		"
7:00	32'5	"	
7:30	32'10	"	
8:00	33'3	"	
8:30	33'3	"	
9:00	33'5	"	
9:15	36'	200 GPM	
9:30	36'4		"
9:45	36'8		"
10:00	37'2	"	
10:30	37'6	"	
11:00	37'9	"	
11:30	37'11	"	
12:00	38'	"	
12:15	41'8	250 GPM	
12:30	42'1		"
12:45	42'9		"
1:00	43'2	"	
1:30	43'10	"	
2:00	43'10	"	
2:30	43'11	"	
3:00	47'6	"	
3:15	48'3	300 GPM	
4:00	48'10		"
4:30	49'1		"
5:00	49'6	"	
5:30	49'10	"	
6:00	50'2	"	
		50'2	"

I am 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 Pease DATE 5-15-86





Hant

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

CONTRACT NO: 81-C-1644  
TRANSMITTAL NO: 220  
DATE: 6-2-86

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

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

**CONTRACTOR USE ONLY**

**REVIEWER USE ONLY**

\*List only one specification division per form.

**\*\*ACTION CODES**

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

- 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 # 7			
1	3.1.6	24 Hour Pump Test 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 *Phil Reese*

DATE RECEIVED BY REVIEWER: 6/5/86

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

TO:

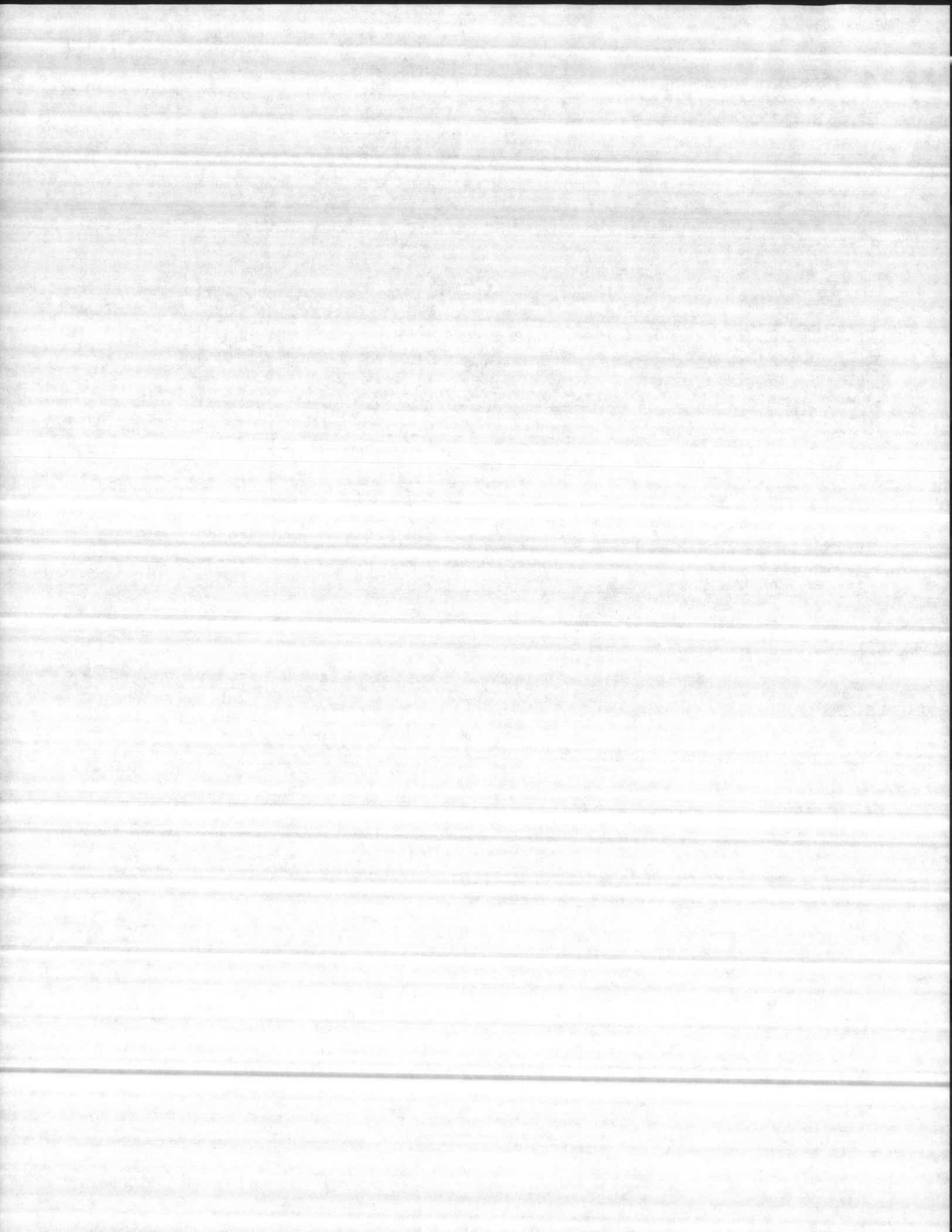
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REVIEWER'S COMMENTS

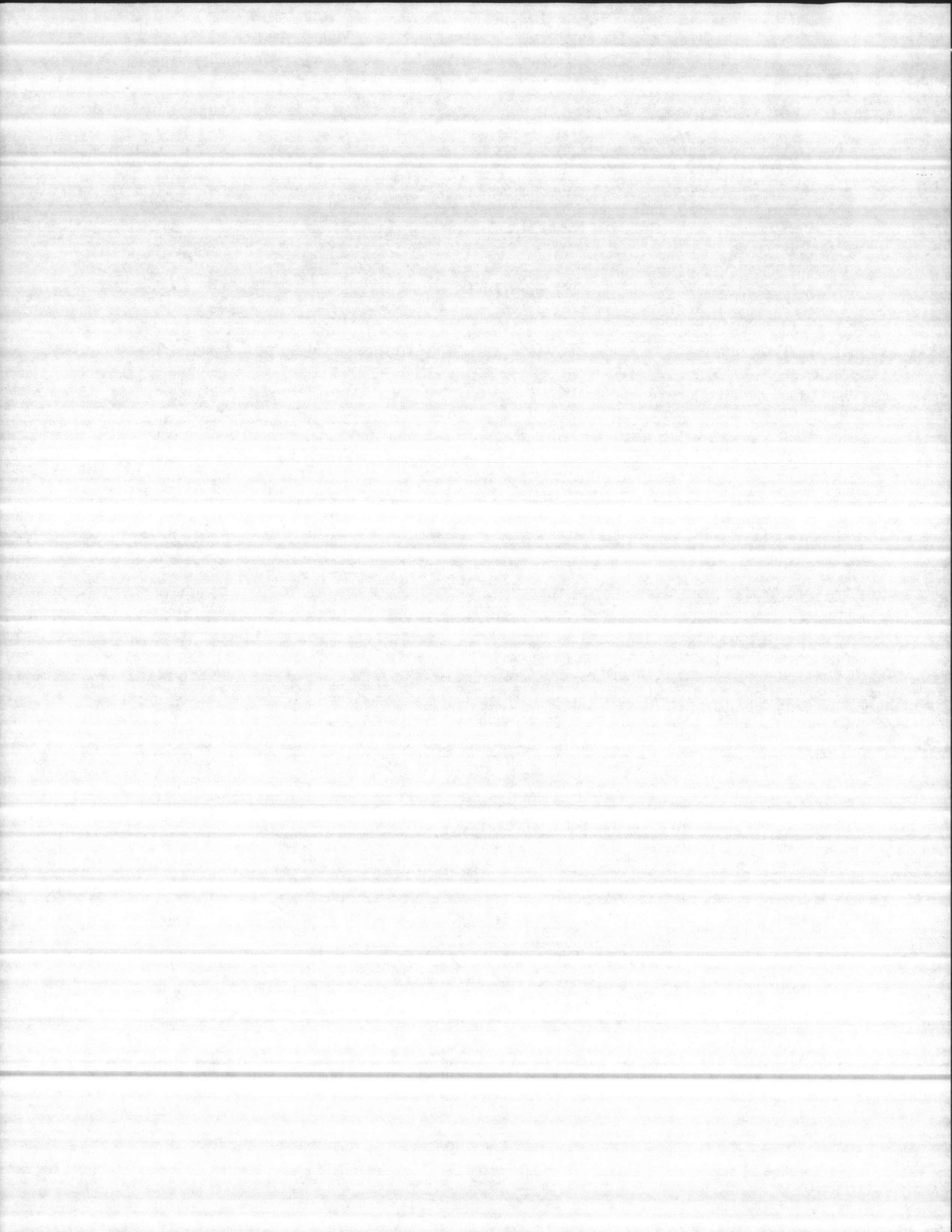
COPIES TO: ROICC (2), LANTDIV (1), A-E (1)

DATE: 6/13/86

SIGNATURE: *[Signature]*



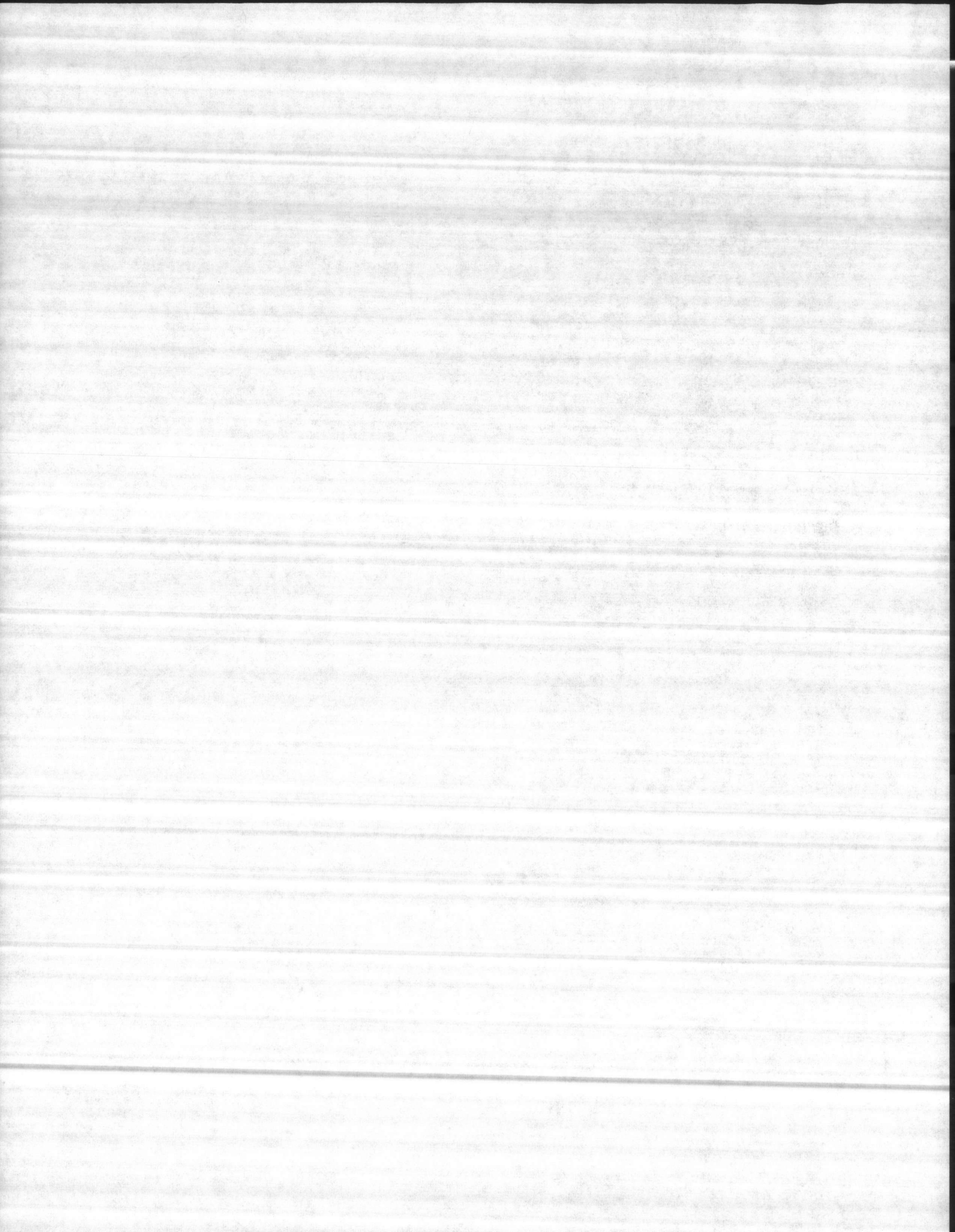
HOUR	1:00	250	20'6"	47'8"	1"	20'6"
HOUR	2:00			47'8"	0	20'6"
HOUR	3:00			47'8"	0	
HOUR	4:00			47'8"	0	
HOUR	5:00			47'8"	0	
HOUR	6:00			47'10"	2"	
HOUR	7:00			47'10"	0	
HOUR	8:00			47'10"	0	
HOUR	9:00			47'10"	0	
HOUR	10:00			47'10"	0	
HOUR	11:00			47'10"	0	
HOUR	12:00			47'11"	1"	
HOUR	13-1:00			47'11"	0	
HOUR	14-2:00			47'11"	0	
HOUR	15-3:00			47'11"	0	
HOUR	16-4:00			47'11"	0	
HOUR	17-5:00			47'11"	0	
HOUR	18-6:00			47'11"	0	
HOUR	19-7:00			47'11"	0	
HOUR	20-8:00			48'2"	3"	
HOUR	21-9:00			48'2"	0	
HOUR	22-10:00			48'3"	1"	
HOUR	23-11:00			48'3"	0	
HOUR	24-12:00			48'3"	0	



DATE 6-19-00 ✓

PWSID 04-67-043

WELL # 705 ✓  
WELL NAME Holcombs Blvd 705  
BLDG. 705 ✓  
CODE G  
AVAILABILITY P  
LOCATION Back of HB670  
Water Plant  
LATITUDE 34.71715 ✓  
LONGITUDE -77.33183 ✓  
WELL DIAMETER 10"  
WELL DEPTH 160'  
SCREEN INTERVAL 70'-80'  
120'-160'  
YIELD 260 GPM  
STATIC LEVEL 40'  
PUMPING LEVEL 60'  
PUMP TYPE Vertical  
MOTOR HP 10  
INTAKE DEPTH 86'  
DESIGN CAPACITY 250 GPM X  
ACTUAL GPM 216 GPM  
SIZE OF CONCRETE SLAB 32 1/2 X 31 1/2  
HEIGHT OF CASING 15"



Item #1

PUMPTEST

FOR - MAGETTE WELL AND PUMP CO.

PROJECT NAME - CAMP MEDINE WELL #7

READINGS	TIME	S.P.M.	PUMP SETTING	STATIC WATER LEVEL	PUMPING LEVEL	DRAWDOWN	RECOVERY
MINUTE 1	12:00	250		20'6"	40'7"	20'1"	35'2"
MINUTE 2					41'4"	9"	33'1"
MINUTE 3					42'3"	11"	30'9"
MINUTE 4					42'	0	28'5"
MINUTE 5					42'3"	8"	25'10"
MINUTE 6					42'11"	3"	23'11"
MINUTE					43'1"	2"	23'
MINUTE 8					43'4"	3"	22'8"
MINUTE 9					43'5"	1"	22'2"
MINUTE 10					44'1"	8"	21'10"
							21'1"
							20'9"
MINUTE 15	12:15				44'11"	10"	20'6"
MINUTE 20					45'5"	6"	20'6"
MINUTE 25					45'10"	5"	20'6"
MINUTE 30					46'1"	3"	20'6"
MINUTE 35					46'3"	2"	20'6"
MINUTE 40					46'5"	2"	20'6"
MINUTE 45					46'6"	1"	20'6"
MINUTE 50					46'6"	0	20'6"
MINUTE 55					46'7"	1"	20'6"

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. B. ...* 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.  
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Authorized Reviewer \_\_\_\_\_ DATE \_\_\_\_\_  
Signature CQC Rep. *Phil Reese* DATE 6-2-86



### SOURCE INFORMATION GROUND WATER

Date Form Completed  
 M M D D Y Y  
 0 1 2 7 9 5

PWSID  
 0  
4  
6  
7  
0  
4  
3

Owner Assigned Source Code: 705  
 Well Name (If purchase, name of system): HOLCOMB BLVD 705

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

If Purchase, seller ID#:                       
 Source Begin Date (M M Y Y):                       
 Source exempt—SWTR?  Y  N  
 Direct Influence Date (M M D D Y Y):                     

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

Location of well within the system (If purchase, location of master meter):  
BACK OF HB670 WATER PLANT

Latitude (N) (Deg. Min. Sec.): 34 43 02.8  
 Longitude (W) (Deg. Min. Sec.): 077 19 56.2  
 How Determined:  G = GPS  
 M = Map  
 S = Surveyed  
 GPS Data: 41 Q# or DOP #: 4  
 No. of Sats. Locked on: 4

(If purchase, use seller's primary source lat/long)  
 Vulnerable (VOCs)  Y  N  
 Assessment Date (M M D D Y Y):                     

### ENTRY POINT INFORMATION

Owner Assigned Entry Point Code: 200  
 Entry Point Name: HOLCOMB BLVD WTP1  
 Use Code:  C = Ground/Permanent  
 D = Ground/non-permanent  
 Availability:  P = Year-round  
 E = Emergency  
 S = Seasonal  
 I = Interim  
 O = Other

Location: \_\_\_\_\_  
 Well Site: Owned or controlled?  (Y,N) Control Area (100' radius)?  (Y,N) If no, explain: \_\_\_\_\_  
 Sources of pollution/distance: woods

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: Slued Packed Yield (gpm): 260 Properly sealed?  (Y,N)  
 Properly vented?  (Y,N) Casing depth 50 ft. (If unknown, put 'UNK') Well depth: 160 Meter available?  (Y,N)  
 Concrete slab adequate? \_\_\_\_\_ (Y,N) If no, explain: \_\_\_\_\_ Size: 2626

Size of blow-off: 4" Sample tap: Before treatment?  (Y,N) After treatment? \_\_\_\_\_ (Y,N)  
 Pumps: Capacity: GPM: 216 HP: 10 Pump intake depth: 86 Auxiliary Power?  (Y,N)

Type pump: Vertical Turbine Height above floor (pump/casing): 15"  
 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? HB670 PLANT

If purchase, retreat?  Y  N If yes, complete back of form.  
① Repair vent  
② seal pump pedestal

