DATE 6-19-00

PWSID 04-67043

WELL # 706

WELL NAME Holcomb Blvd 706

BLDG. 706

CODE G

AVAILABILITY P

LOCATION Hwy 24 east

LATITUDE

LONGITUDE

WELL DIAMETER 10"

WELL DEPTH 185'

SCREEN INTERVAL 130'-140'

165'-185'

YIELD 260 GPM

STATIC LEVEL 36'

PUMPING LEVEL 73'

PUMP TYPE Vertical Turbine

MOTOR HP 10"

INTAKE DEPTH 86'

DESIGN CAPACITY 230 GPM

ACTUAL GPM 230 GPM

SIZE OF CONCRETE SLAB

HEIGHT OF CASING 19"

DOWN

584 Replaced
this well.

DATE 6-19-00

PWSID 04-67043

WELL # 7D6

WELL NAME Holcomb Blvd 706

BLDG. 706

CODE G

AVAILABILITY P

LOCATION Hwy 24 east

LATITUDE

LONGITUDE

WELL DIAMETER 10"

WELL DEPTH 185'

SCREEN INTERVAL 130'-140'

165'-185'

YIELD 260 GPM

STATIC LEVEL 36'

PUMPING LEVEL 73'

PUMP TYPE Vertical Turbine

MOTOR HP 10"

INTAKE DEPTH 86'

DESIGN CAPACITY 230 GPM

ACTUAL GPM 230 GPM

SIZE OF CONCRETE SLAB '

HEIGHT OF CASING 19"

DOWN

North Carolina Department of Environment, Health, and Natural Resources
Division of Environmental Health, Public Water Supply Section

SOURCE INFORMATION
GROUND WATER

Date Form Completed: M M D D Y Y 0 1 2 6 9 5

PWSID: 0 4 0 7 0 4 3

Owner Assigned Source Code: 706

Well Name (If purchase, name of system): Holcomb Blvd 706

Code: G — 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 — P=Permanent, E=Emergency, S=Seasonal, I=Interim, O=Other

Location of well within the system (If purchase, location of master meter): Hwy 24 East

Latitude (N): Deg. Min. Sec. 3 4 4 2 5 7 9

Longitude (W): Deg. Min. Sec. 0 7 7 1 9 3 1 7

How Determined: G — G=GPS, M=Map, S=Surveyed

GPS Data: Q 2 — Q # or DOP #

No. of Sats. Locked on: 3

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

Vulnerable (VOCs) ☐ Y N

Assessment Date: M M D D Y Y

ENTRY POINT INFORMATION

Use Code: C — C=Ground/Permanent, D=Ground/non-permanent

Availability: P — P=Year-round, E=Emergency, S=Seasonal, I=Interim, O=Other

Owner Assigned Entry Point Code: 200

Entry Point Name: ~~HB706~~ MCB Holcomb Blvd WTP

Location:

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

Sources of pollution/distance:

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

Adequate slope? Y (Y,N) Flooding? N (Y,N) Maintenance: OK

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

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

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

Properly vented? Y (Y,N) Casing depth ~~120~~ 50 ft. (If unknown, put 'UNK') Well depth: 185 Meter available? Y (Y,N)

Concrete slab adequate? Y (Y,N) If no, explain: Size: 12X12

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

Pumps: Capacity: GPM: 230 HP: 10 Pump intake depth: 86 Auxiliary Power? Y (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? N Y N If yes, complete back of form.

If other wells are treated here, which ones? If treated elsewhere, where? HB 670 PLANT

If purchase, retreat? ☐ Y N If yes, complete back of form. ① Repair Vent ② Seal pedestal

Hunt

X / MC

CONTRACTOR'S SUBMITTAL TRANSMITTAL

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

CONTRACT NO	TRANSMITTAL NO	DATE
81-C-1644	149-A	3-14-86

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 # 8			
1	2.2.4	Recommendation and Data Submittal	7	A	
2	2.2	Driller's Log	7	A	
3	2.2.3	Electric Log and Gamma Log	7		
4	2.2.2	Water Analysis	7	A	
5	2.2.2	Sieve Analysis	7	A	
6	1.2.1	Shop Drawings	7	A	

CONTRACTOR'S COMMENTS

Water Samples for 130' and 175' are included.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC: ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature): Phil Reese

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO
3/17/86	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

COPIES TO	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)	3/26/86	

☆ U.S. GOP: 1983 - 739-003/2122 Region 3-11

27 MAR 1986 12 45

HARRY PEPPER & ASSOCIATES, INC. Item #1

ENGINEERING CONTRACTORS

March 14, 1986

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

RE: N62470-81-C-1644
Expansion of Holcomb Blvd
Water Treatment Plant
Camp Lejeune, NC 28542
Well # 8

Gentlemen:

We are enclosing seven (7) copies of the Driller's Log, Gamma Log, Electric Log, Water Analysis and Sieve Analysis for your review. The test was drilled at 250'. Water Samples were taken at the 95' level, 130' level and at the 175' level.

We recommend a line of .030 slot stainless steel screen set at the 130' to 140' level and at the 165' to 185' level for a total of 30VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well my 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

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED X
APPROVED AS NOTED
DISAPPROVED
SUBJECT TO THE REQUIREMENTS OF THE
CONTRACT NO. N6470-81-C-1644
APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION AND SUPPORTS THE DEVIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.
REVIEWER
DATE MAR 21 1986
FOR OFFICER IN CHARGE OF CONSTRUCTION

I hereby certified that the material (equipment) shown or described in the submittal shop drawings, catalog cuts, etc., and marked in this submittal 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.
Approved for use.
Submitted for Government approval.
Submitted for Government approval.
Approved for use subject to Government approval of specific deviation.
Approved for use subject to Government approval of specific deviation.
Authorized Reviewer DATE
Authorized Reviewer
Signature CQC Rep. Phil Reese DATE 3-14-86

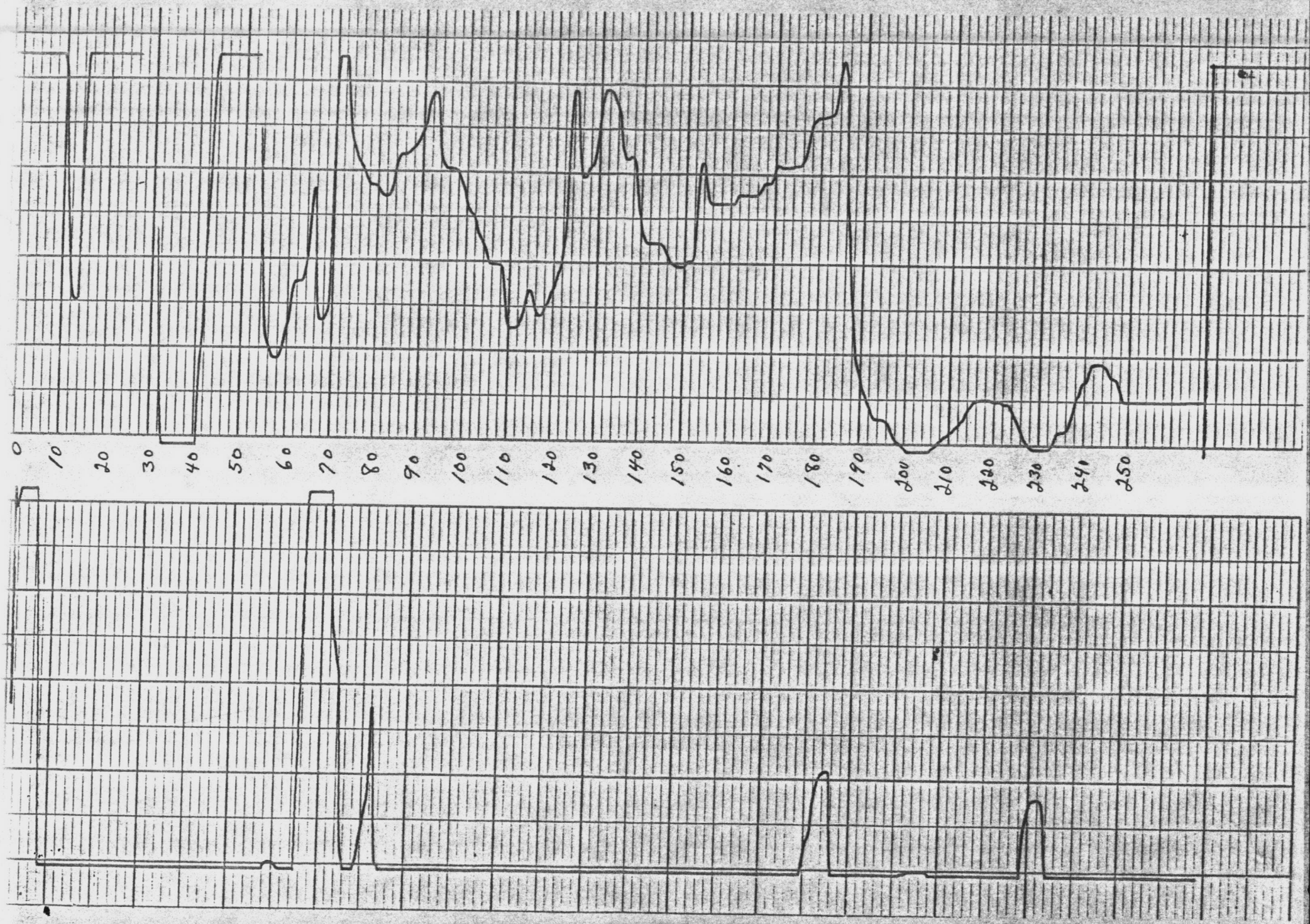
119 WEST EIGHTH STREET • P.O. BOX 3007 • JACKSONVILLE, FL. 32206 904/356-3954

Item #2

DRILLERS LOG CAMP LEJEUNE WELL #8

DEPTH OF SAMPLE	
0 - 5 FT.	TOPSOIL
5 - 55 FT.	GRAY CLAY AND FINE SAND
55 - 140 FT.	LIMESTONE
140 - 185 FT.	LIMESTONE AND GREEN CLAY
185 - 250 FT.	GREEN CLAY

Item # 2 + 3


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

Item # 4

LAW & COMPANY

Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well #706

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: 9-03-85
DATE RECEIVED: 9-03-85
COLLECTED BY: CUSTOMER
LAB ID# EW 9228

SAMPLE DESCRIPTION: WELL #8

TESTS/UNITS		RESULTS
DISSOLVED OXYGEN	(MG/L)	6
TEMPERATURE		19.5
pH		8.1
CARBON DIOXIDE	(PPM)	0
SULFIDES	(PPM)	.6
CHLORINE DEMAND	(PPM)	1.1
COLOR	(APHA)	60
TURBIDITY	(NTU)	9
TOTAL ALKALINITY	(PPM)	149
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	125
CARBONATE	(PPM)	24
TOTAL HARDNESS	(PPM)	152
NON-CARBONATE	(PPM)	149
CARBONATE	(PPM)	3
TOTAL DISSOLVED SOLIDS	(PPM)	86

CONTINUED.....

LAW & COMPANY

Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well #706

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

TESTS/UNITS		RESULTS
SPECIFIC CONDUCTANCE	(UMHOS)	250
SULFATES	(PPM)	16.5
CALCIUM	(PPM)	46
MAGNESIUM	(PPM)	.9
SODIUM	(PPM)	7.4
POTASSIUM	(PPM)	.8
CHLORIDE	(PPM)	21.8
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	.40
MANGANESE	(PPM)	<.015
SILICON	(PPM)	6.2
FLOURIDE	(PPM)	<.2

CHEMIST Dolly Bridwan

TOTAL CHARGES: $180.00

Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well #706

REPORT DATE: 3-11-86

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

DATE COLLECTED: 2-27-86
DATE RECRIVED: 2-28-86
COLLECTED BY: CUSTOMER
LAB I.D.# EW 3508

SAMPLE DESCRIPTION: WELL #8 @ 130 feet

TESTS/SAMPLES		RESULTS			RESULTS
pH		7.1	POTASSIUM	PPM	.8
CARBON DIOXIDE	PPM	0	CHLORIDE	PPM	29
SULFIDES	PPM	4	NITRATE NITROGEN	PPM	<.2
CHLORINE DEMAND	PPM	1.6	IRON	PPM	0.05
COLOR	APHA	35	MANGANESE	PPM	<0.015
TURBIDITY	NTU	57	SILICON	PPM	1.4
TOTAL ALKALINITY	PPM	184	FLOURIDE	PPM	<.2
HYDROXIDE	PPM	0			
BICARBONATE	PPM	173			
CARBONATE	PPM	11			
TOTAL HARDNESS	PPM	180			
NON-CARBONATE	PPM	0			
CARBONATE	PPM	180			
TOTAL DISSOLVED SOLIDS	PPM	255			
SPECIFIC CONDUCTANCE	UMHOS	320			
SULFATES	PPM	20			
CALCIUM	PPM	58			
MAGNESIUM	PPM	1.6			
SODIUM	PPM	7.6			

CHEMIST: Dolly Bridwan

TOTAL CHARGES: 180.00

Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well # 704

REPORT DATE: 3-11-86

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

DATE COLLECTED: 2-27-86
DATE RECRIVED: 2-28-86
COLLECTED BY: CUSTOMER
LAB I.D.# EW 3508

SAMPLE DESCRIPTION: WELL #8 @ 175 feet

TESTS/SAMPLES		RESULTS			RESULTS
pH		7.2	POTASSIUM	PPM	2
CARBON DIOXIDE	PPM	0	CHLORIDE	PPM	20
SULFIDES	PPM	0	NITRATE NITROGEN	PPM	<.2
CHLORINE DEMAND	PPM	1.6	IRON	PPM	0.8
COLOR	APHA	15	MANGANESE	PPM	<0.015
TURBIDITY	NTU	8.5	SILICON	PPM	4.9
TOTAL ALKALINITY	PPM	176	FLOURIDE	PPM	<.2
HYDROXIDE	PPM	0			
BICARBONATE	PPM	176			
CARBONATE	PPM	0			
TOTAL HARDNESS	PPM	160			
NON-CARBONATE	PPM	0			
CARBONATE	PPM	160			
TOTAL DISSOLVED SOLIDS	PPM	246			
SPECIFIC CONDUCTANCE	UMHOS	305			
SULFATES	PPM	12			
CALCIUM	PPM	50			
MAGNESIUM	PPM	1.6			
SODIUM	PPM	7.6			

CHEMIST: Dolly Bidwan

TOTAL CHARGES: 180.00

Item #5

Item #

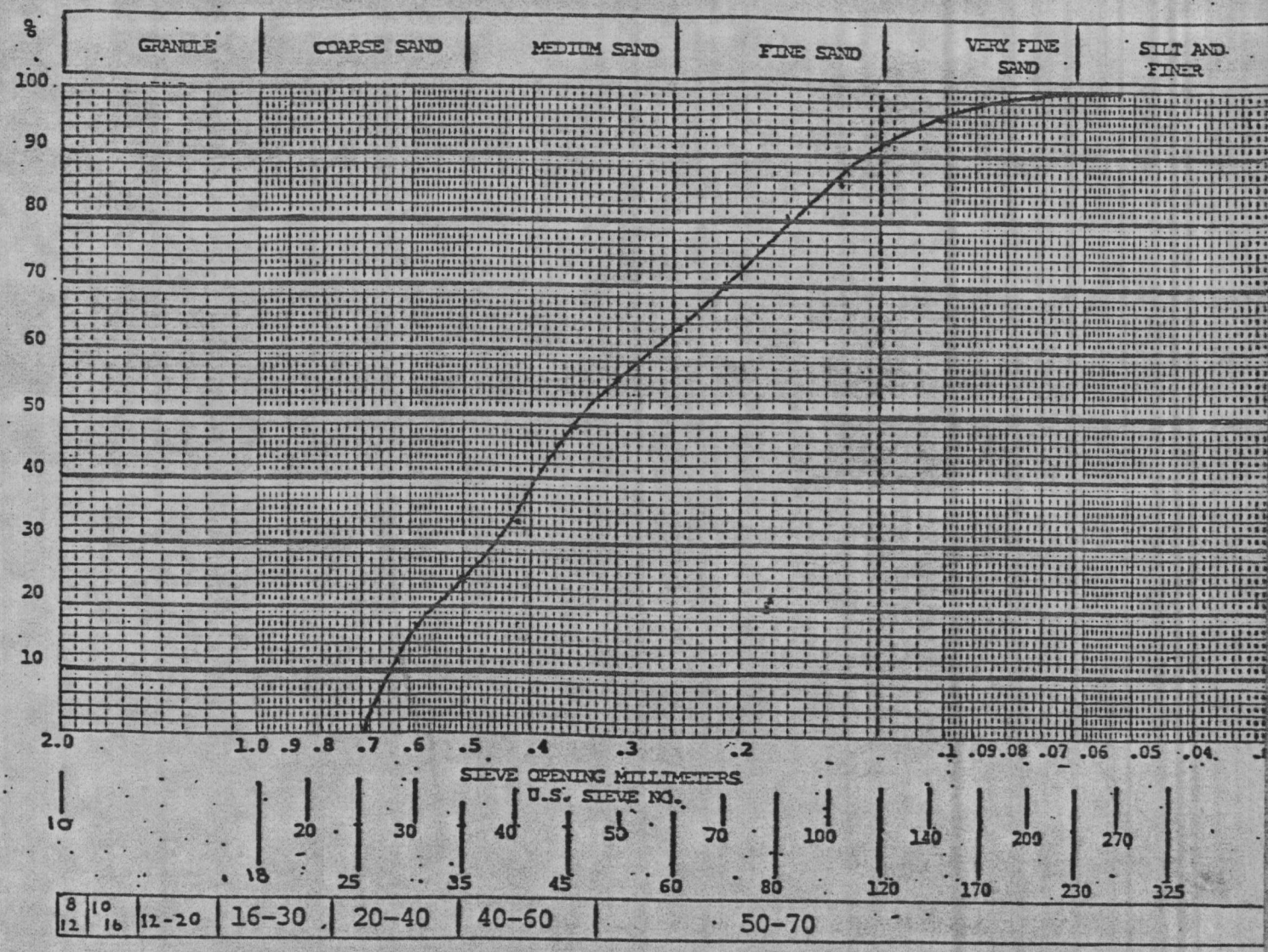
HSSC
HOWARD SMITH
SCREEN COMPANY
A Halliburton Company
P.O. Box 666 • Houston, Texas 77001
713-869-5771 • Telex: 77-4667

TACT...-
EPHONE.-
ARKS...WATER WELL
OMMENDATIONS:-
VEL SIZE_____
EEN SIZE_____

COMPANY...R.L.MAGETTE COMPANY
WELL.....#8
DEPTH.....110-140
FIELD.....-
COUNTY....-
STATE.....VA

SIEVE ANALYSIS REPORT

S VE	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	6.2	6.2	16.9
35	.0197	0.500	2.7	8.9	24.3
40	.0165	0.420	3.3	12.2	33.2
45	.0139	0.351	3.2	17.6	48.0
50	.0117	0.297	2.6	20.2	55.0
60	.0098	0.250	3.0	23.2	63.2
70	.0083	0.210	2.4	25.6	69.8
80	.0070	0.177	3.8	29.4	80.1
100	.0059	0.149	2.4	31.8	86.6
120	.0049	0.124	2.1	33.9	92.4
140	.0041	0.104	1.3	35.2	95.9
170	.0035	0.088	0.8	36.0	98.1
200	.0029	0.074	0.4	36.4	99.2
230	.0024	0.062	0.2	36.6	99.7
270	.0021	0.053	0.1	36.7	100.0
325	.0017	0.044	-.-	-.-	-.-
325			-.-	-.-	-.-



MES E JACKSON
-22-85

FCR

R. L. MAGETTE COMPANY

Item #6

WATER SUPPLY CONTRACTORS

DOMESTIC : INDUSTRIAL : MUNICIPAL

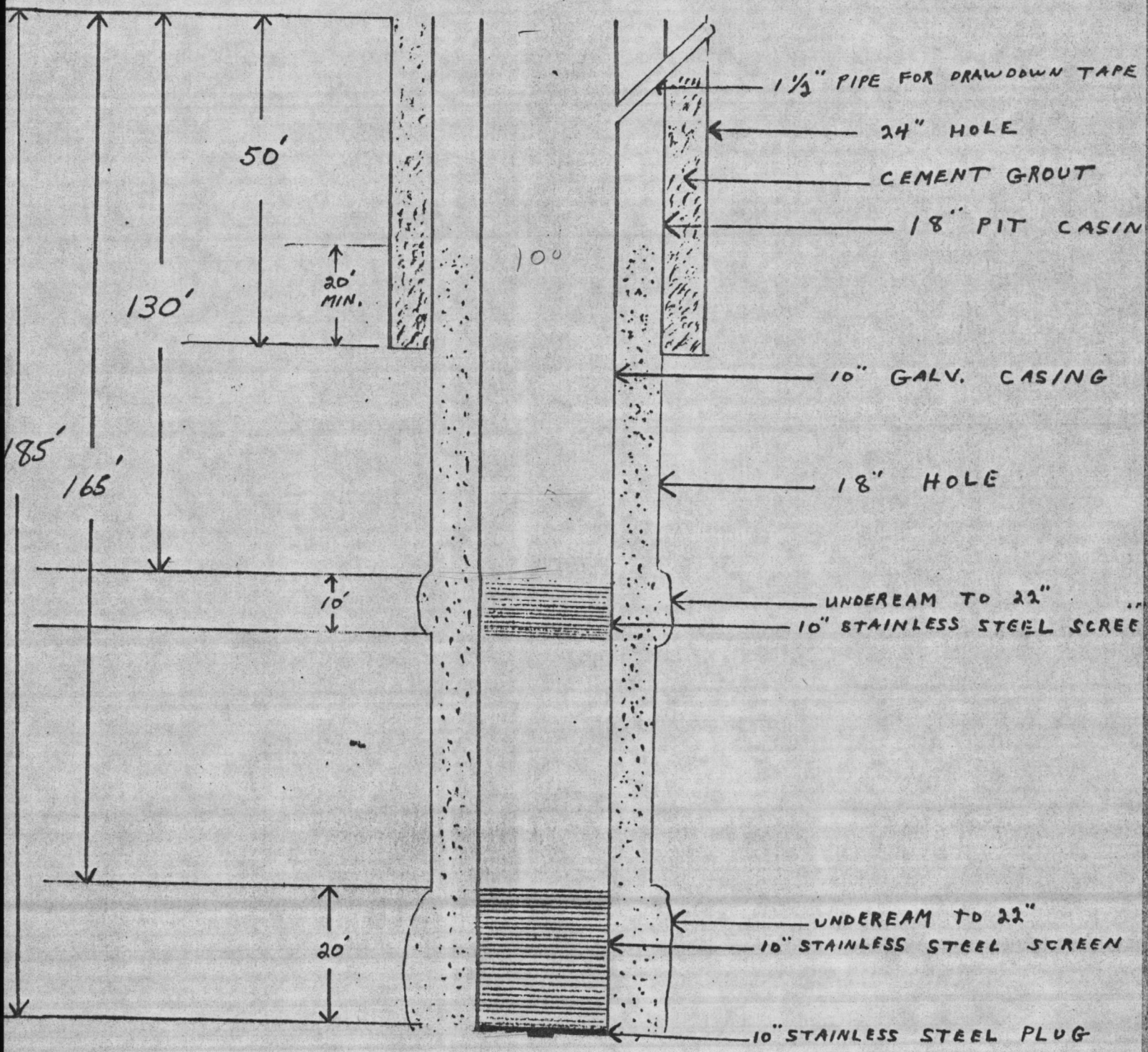
Wells, Pumps and Community Water Systems

Serving Tidewater Virginia and Eastern North Carolina

WELL # 8

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

Smithfield, Virginia 23430



Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

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

CONTRACT NO	TRANSMITTAL NO	DATE
81-C-1644	216	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 # 8			
1	1.2.1	Shop Drawings	7		

CONTRACTOR'S COMMENTS

An Additional twenty (20) feet of screen was added.

This Shop Drawing replaces shop drawing previously submitted. See Transmittal # 149-A, dated 3-14-86.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC: ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature): Phil Reese Phil Reese

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO
6/3/86	Henry vpm 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

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

★ U.S. GOP: 1983 - 739-003/2122 Region 3-11

Item #1

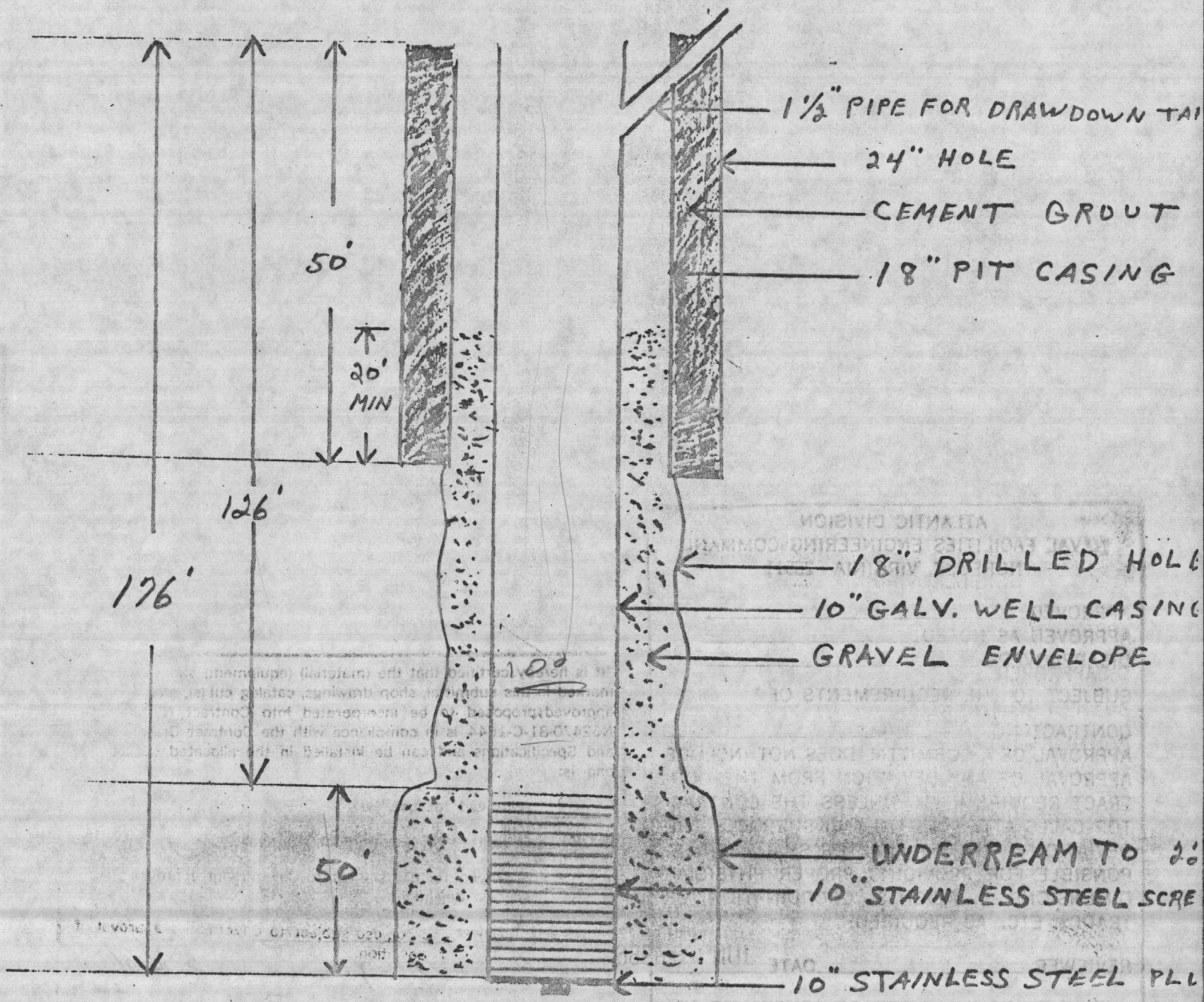
R. L. MAGETTE COMPANY

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 #8



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 PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER [signature] 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.

X Submitted for Government approval.

____ Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____

Signature CQC Rep. Phil Pierce DATE 5-30-86

R. L. MAGETTE COMPANY

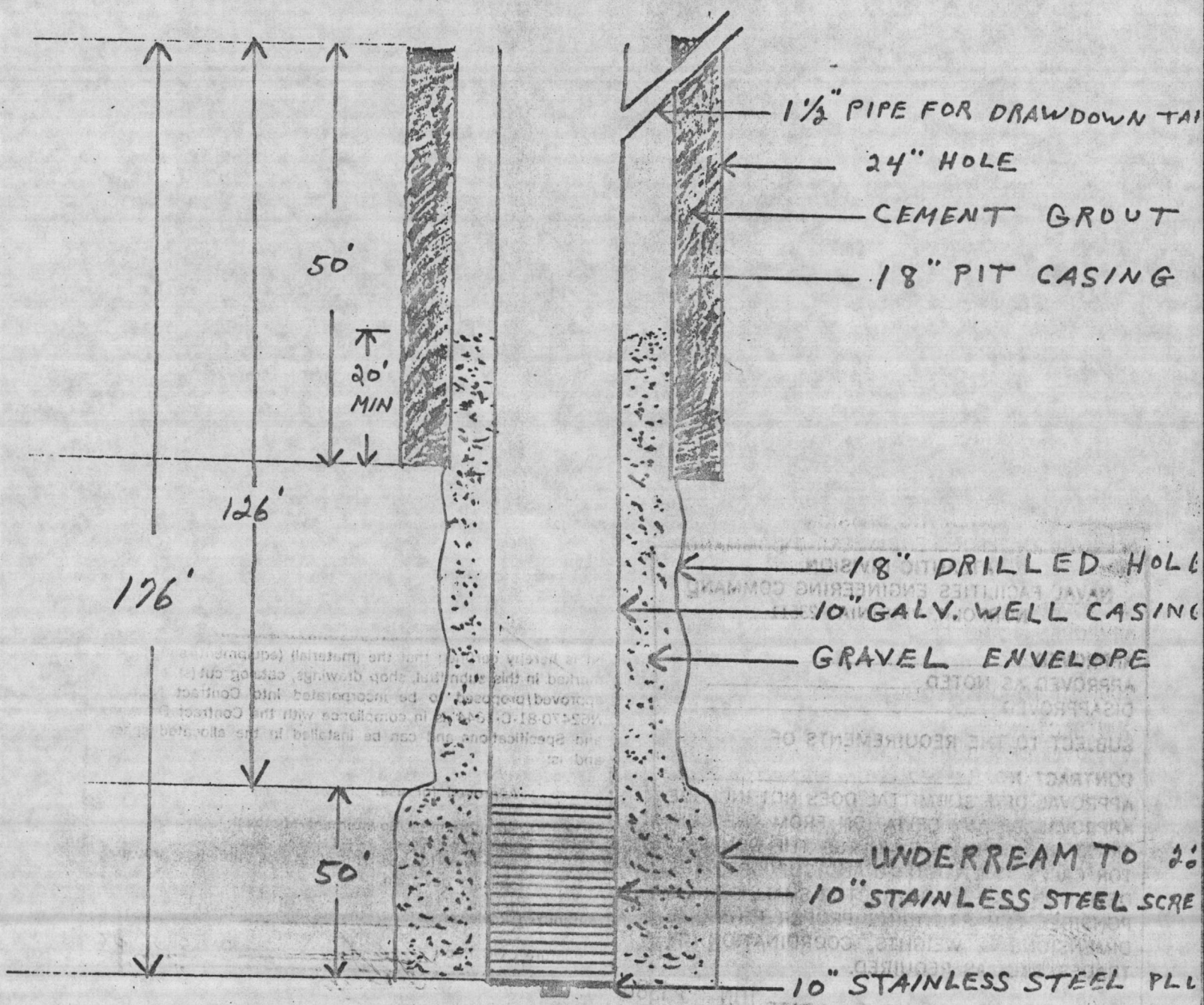
Item #1

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 #8



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 PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER M Bonson 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:

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X 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

Hart

CONTRACTOR'S SUBMITTAL TRANSMITTAL

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

CONTRACT NO	TRANSMITTAL NO	DATE
81-C-1644	200	4-25-86

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
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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 # 8			
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 Phil Reese

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO
4/28/86	Henry von Oesen & Assoc.	

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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	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)	5/1/86	M Bunn

☆ U.S. GOP: 1983 - 739-003/2122 Region 3-11

-5 MAY 1986 12 54

24 Hour Pump Test 4-21-86 Pumping Rate 250 GPM ITEM #1
Well # 8

TIME	PUMP SETTING 126'	STATIC 21'1"
	PUMPING LEVEL	DRAWDOWN
9:01	55'1"	43'
9:02	57'2	2'1
9:03	58'11	1'9
9:04	60'2	1'3'
9:05	61'3	1'1
9:06	62'1	10"
9:07	63'	11"
9:08	63'11	11"
9:09	64'10	11"
9:10	65'8	10"
9:15	68'2	2'6
9:20	69'11	1'9
9:25	71'9	1'10
9:30	73'	1'3
9:35	73'11	11"
9:40	74'8	9"
9:45	75'7	11"
9:50	76'5	10"
9:55	77'2	9"
10:00	78'	10"
11:00	80'3	2'3
12:00	81'1	10"
1:00	81'8	7"
2:00	82'5	9"
3:00	82'6	6"
4:00	82'11	7"
5:00	83'	6"
6:00	84'	12"
7:00	84'9	9"
8:00	85'4	7"
9:00	86'1	9"
10:00	86'6	5"
11:00	86'11	5"
12:00	87'2	3"
1:00	87'5	3"
2:00	87'7	2"
3:00	87'8	1"
4:00	"	"
5:00	"	"
6:00	"	"
7:00	"	"
8:00	"	"
9:00	"	"

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 PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER [signature] DATE APR 30 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.

X Submitted for Government approval.

____ Approved for use subject to Government approval of specific deviation.

Authorized Reviewer _____ DATE _____

CQC Rep. Phil Reese DATE 4-25-86

2 HOUR RECOVERY

WELL # 8

ITEM # 2

9:01	33'1
9:02	31'3
9:03	30'9
9:04	29'2
9:05	27'11
9:06	26'10
9:07	25'11
9:08	25'2
9:09	24'4
9:10	23'9
9:15	23'1
9:20	22'6
9:25	22'1
9:30	21'8
9:35	21'5
9:40	21'1
9:45	"
9:50	"
9:55	"
10:00	"
11:00	"

Hunt

CONTRACTOR'S SUBMITTAL TRANSMITTAL

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

CONTRACT NO	TRANSMITTAL NO	DATE
81-C-1644	199	4-24-86

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 # 8			
1		Step Test	7	A	JRB

CONTRACTOR'S COMMENTS

Advised by Title II Inspector to Pump Test at 250GPM for 24 Hour Pump Test.

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC: ONE COPY TO ROICC

CONTRACTOR REPRESENTATIVE (Signature): Phil Reese Phil Reese

DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO
4/28/86	Henry von Oesen & Assoc.	

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REVIEWER'S COMMENTS

COPIES TO	DATE	SIGNATURE
ROICC (2) LANTDIV (1) A-E (1)	5/2/86	M Bussard

-2 MAY 1986 15 04

☆ U.S. GOP: 1983 - 739-003/2122 Region 3-11

-5 MAY 1986 12 54

WELL # 8 ITEM # 1

Step Test

4/17/86

TIME	STATIC	PUMPING LEVEL	PUMPING RATE
1:15	21'2"	38'2"	100 GPM
1:30		44'6"	""
1:45		46'3"	"
2:00		48'4"	"
2:30		49'11"	"
3:00		50'6"	"
3:30		51'9"	"
4:00		52'4"	"
4:15		63'1"	150 GPM
4:30		63'7"	"
4:45		63'10"	"
5:00		64'2"	"
5:30		64'4"	"
6:00		64'6"	"
6:30		64"6"	"
7:00		64'6"	"
7:15		72'4"	200 GPM
7:30		73'3"	"
7:45		73'11"	"
8:00		74'2"	"
8:30		74'5"	"
9:00		74'8"	"
9:30		74'9"	"
10:00		74'10"	"
10:15		85'2"	250 GPM
10:30		86'1"	"
10:45		86'5"	"
11:00		86'11"	"
11:30		87'3"	"
12:00		87'6"	"
12:30		87'9"	"
1:00		87'11"	"
1:15		102'2"	300 GPM
1:30		102'11"	"
1:45		103'5"	"
2:00		103'8"	"
2:30		103'11"	"
3:00		104'1"	"
3:30		104'1"	"
4:00		104'2"	"
4:15		112'2"	325 GPM
4:30		113'3"	
4:45		113'11"	"
5:00		~~113'2"~~ 114.6	"
5:30		~~113'3"~~ 114.11	"
6:00		~~113'11"~~ 115.2	"
6:30		115.3	"
7:00		115.4	"

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REVIEWER [signature] DATE APR 30 1986

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Authorized Reviewer _____ DATE _____

Signature CQC Rep. [signature] DATE 4-24-86

WELL NUMBER 706		BY Stevenson &			DATE 7-9-97	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	36	50	14	20	100	00
		57	21	15	140	10
		65	29	10	187	20
		73	37	05	230	

REMARKS

D/H 27 PSI

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE

WELL NUMBER 706		BY			DATE 10-11-94	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	35	51	16	15	100	
		61	26	10	170	
		67	32	5	199	

REMARKS D/H - 18 p.s.i.

ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE

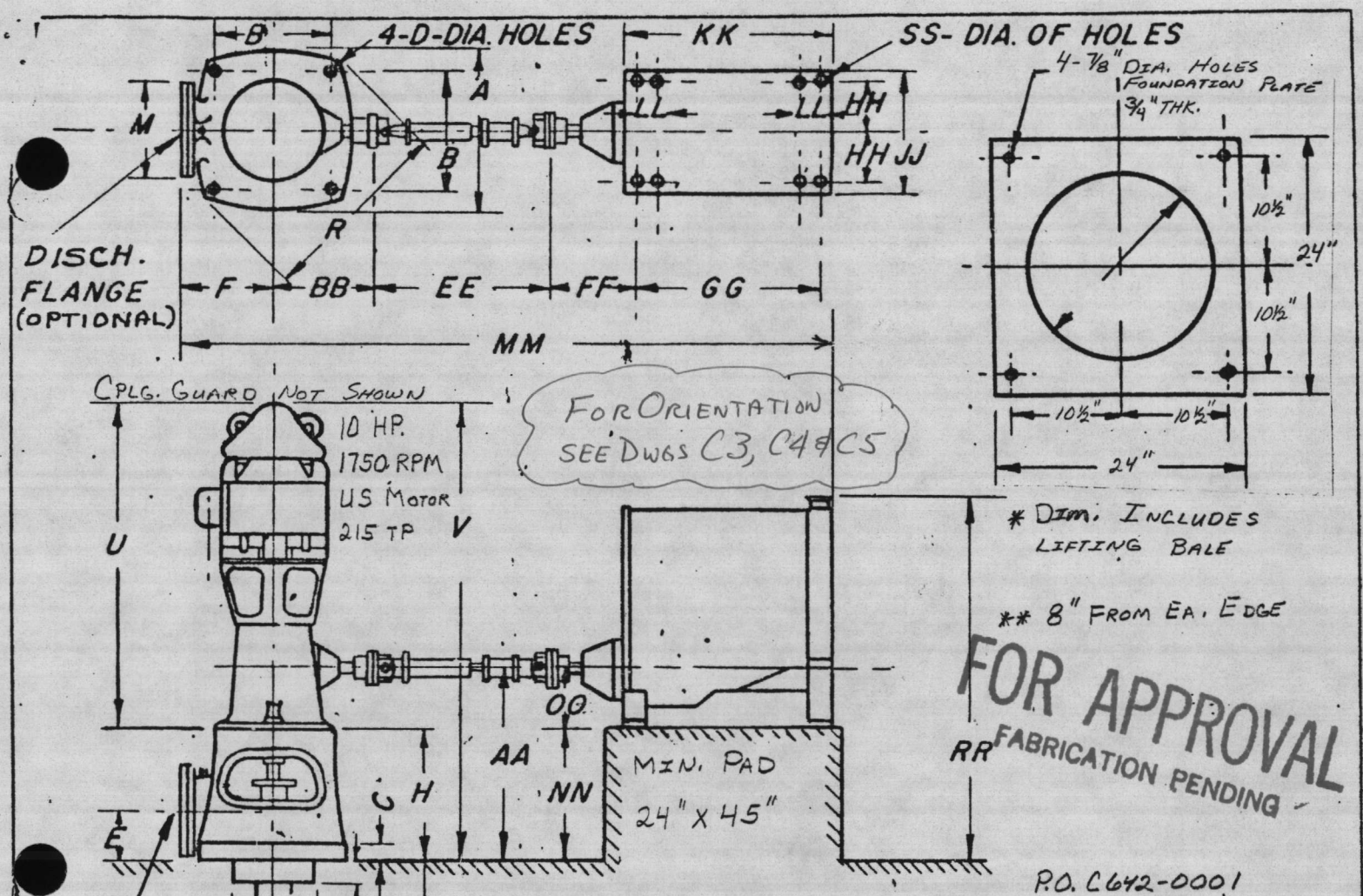
WELL NUMBER 906		BY Thomas - Brown			DATE 3 - 15 - 90	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	33	47	14	19	100	05
		50	17	15	149	15
		63	30	10	192	20
		67	34	05	214	45
						57

REMARKS

Dead head @ -26'

Left set @ -55

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



HARRY PEPPER & ASSOC. INC. S.O. 1635-08

DIMENSIONS

A	17"	Z	11'-0 3/8"
B	14½"	CS	86'-6¾"
C	2"	OA	101'-0 3/8"
D	7/8"	AA	1'-10¼"
E	6½"	BB	10 7/8"
F	9"	EE	24"
G	3¾"	FF	21 1/16"
H	15½"	GG	29"
J	9 7/8"	HH	11¼"
M	11"	JJ	20"
N	6"	KK	45"
R	23"	LL	—
T		MM	7'-4 7/8"
U	3'-11½"	NN	10¼"
V	5'-3"	OO	12"
W	6¼"	RR	56¼" *
X	7½"	SS	5/8" **
Y	3'-5¼"	TT	5"

CAMP LEJEUNE NO. 8 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

RPW

DATE 1-26-81 | SCALE NONE

FIG. 4700 SIZE M8

DRAWING NO. T82515

FOR APPROVAL
FABRICATION PENDING

CAMP LEJEUNE NO. 8 WELL

DEMING PUMP CO.

SALEM, OHIO, U.S.A.

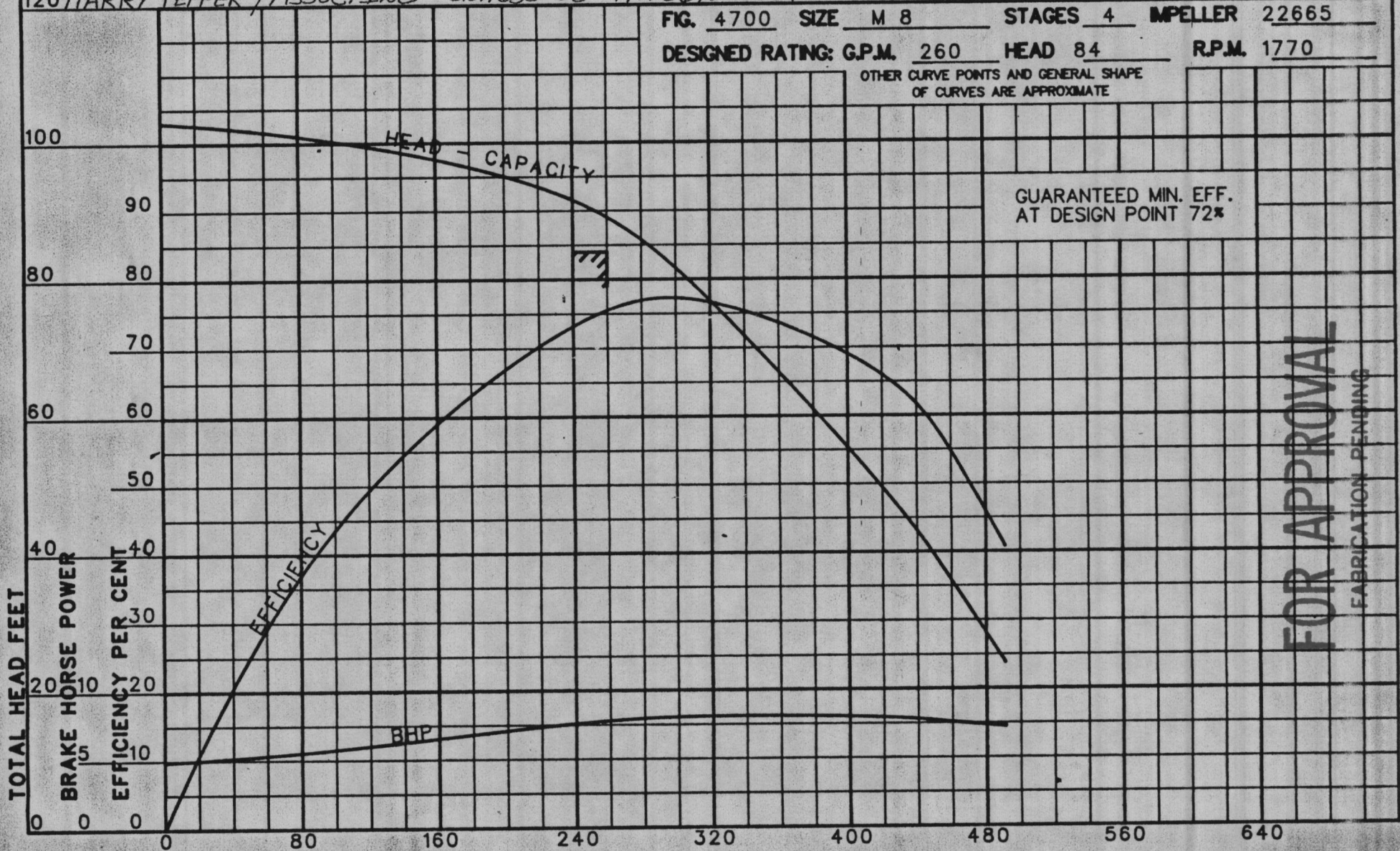
CHARACTERISTIC CURVES

120 HARRY PEPPER & ASSOC. INC S.O. 1635-08 P.O. C642-0001

FIG. 4700 SIZE M 8 STAGES 4 IMPELLER 22665

DESIGNED RATING: G.P.M. 260 HEAD 84 R.P.M. 1770

OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE



FOR APPROVAL

FABRICATION PENDING

SERIAL NO. ****

IMP. DIA. 5 3/8"

DATE 2-20-85

NO. Q23643

WELL #706