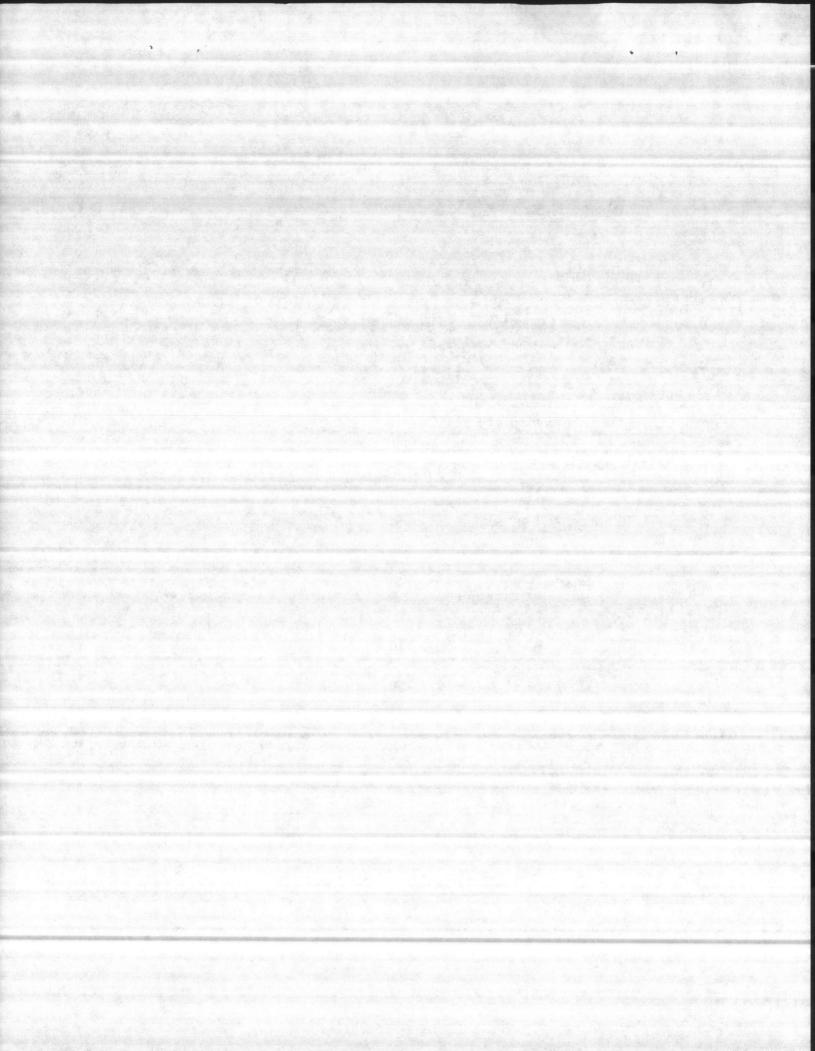
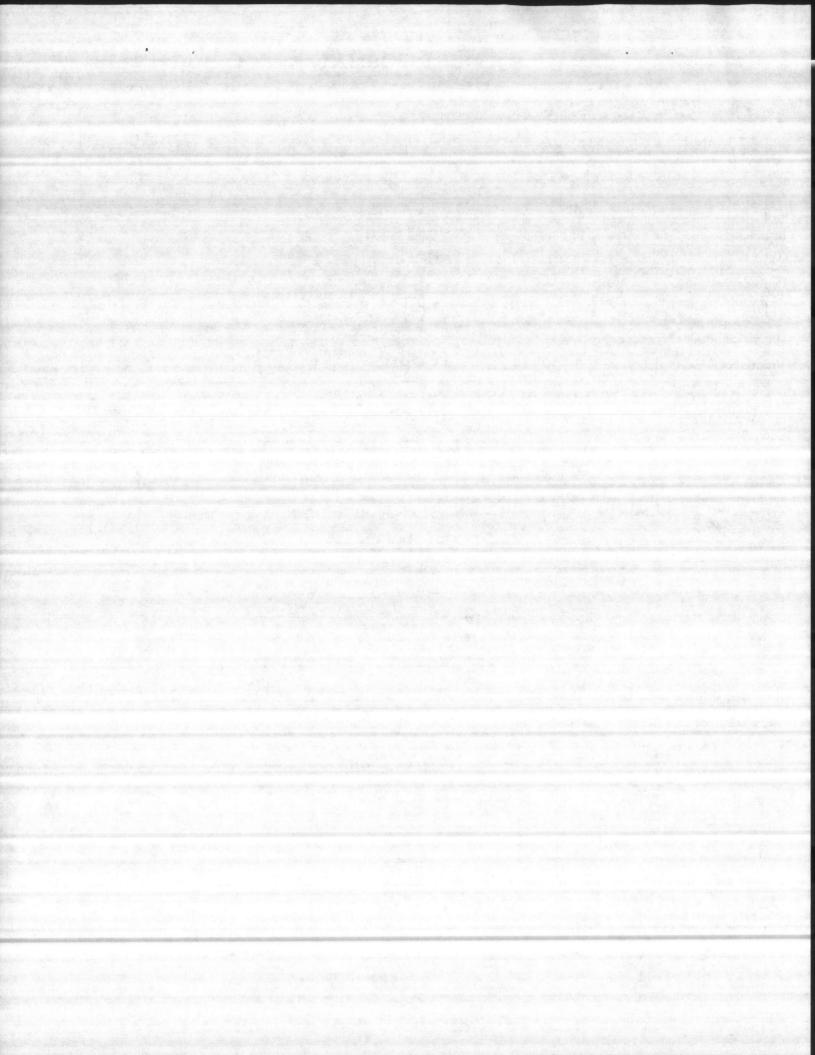
WELL #
WELL NAME Holcomb Boud 700
BLDG. 704
CODE
AVAILABILITY P
Cocas Rd Equipment
- access Rd
LATITUDE 34.72669
LONGITUDE _ 77.35028
WELL DIAMETERLO''
WELL DEPTH
SCREEN INTERVAL 84'-114'
YIELD 260 CPM
STATIC LEVEL33'
PUMPING LEVEL56
PUMP TYPE Vertical Juline
MOTOR HP15
INTAKE DEPTH 86
DESIGN CAPACITY 200 GPM_X
ACTUAL GPM
SIZE OF CONCRETE SLAB 33/2"X31/2"
HEIGHT OF CASING 18"



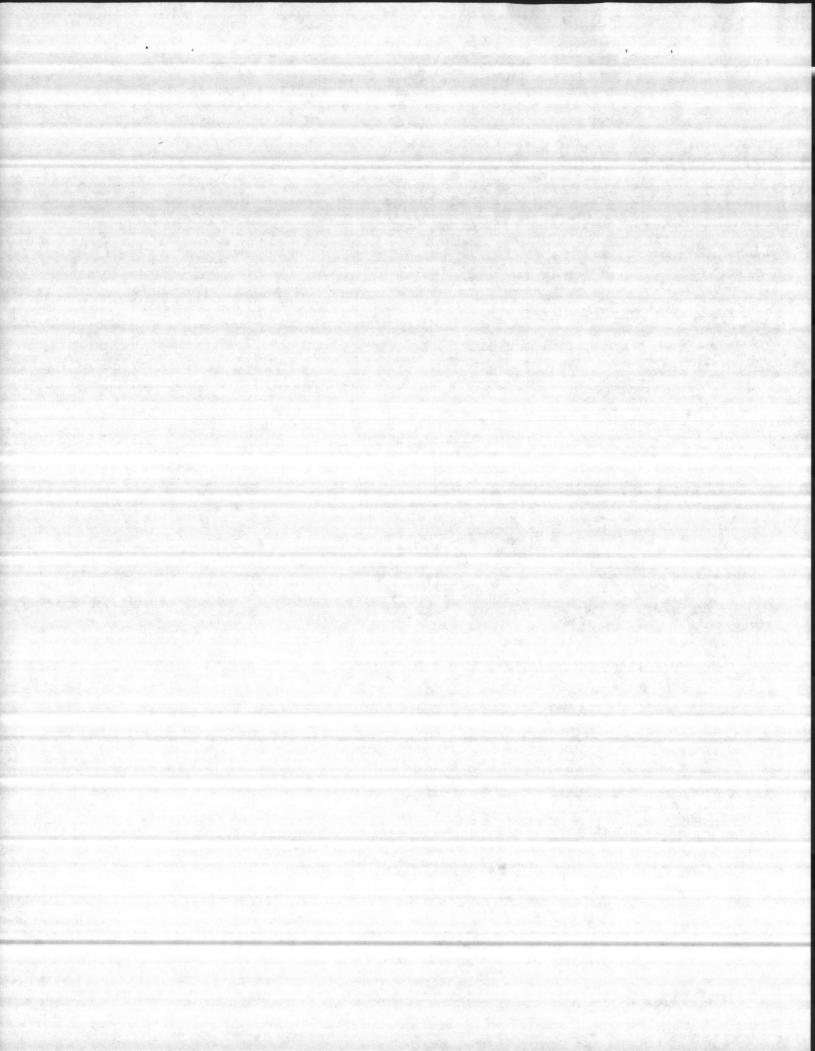
North line Department of Environment, research, and 5 95 13:19 P. 04
SOURCE INFORMATION Date Form Completed GROUND WATER
Owner Assigned Well Name (If purchase, name of system) Code G=Ground
Joy Holcomb BIVD 704 G=Ground W=Purchase/G Y=G w/direct influence Z=W w/direct influence
If Purchase, seller ID# Source Begin Date Source exempt— Direct Influence Date Availability SWTR! Y P=Permanent P P=Permanent
Location of well within the system (If purchase, location of master meter) Heavy Eguipment TACCESS Rd
Latitude (N) Longitude (W) Min. Sec. G=GPS M=Map S=Surveyed GPS Data No. of Sats. Locked on M=Map S=Surveyed (If purchase, use seller's primary source lat/long) No. of Sats. Locked on M=Map S=Surveyed M D D Y Y
Vulnerable (VOCs) Y N Assessment Date
ENTRY POINT INFORMATION Use Code C=Ground/Permanent D=Ground/non-permanent P=Year-round E=Emergency S=Seasonal I=Interim O=Other Location:
Well Site: Owned or controlled? \((Y,N) \) Control Area (100' radius)? \(\frac{1}{2} \) (Y,N) If no, explain: \(\frac{1}{2} \) Sources of pollution/distance: \(\frac{1}{2} \) Power Line \(\frac{1}{2} \) \(\frac{1}{2} \)
Surface water within 200'? V Y If yes, actual distance feer If yes, bact. samples collected? (Y,N) Adequate slope? Y (Y,N) Flooding? N (Y,N) Maintenance:
Well House: Free of stored materials? (Y,N) Properly drained? (Y,N) Locked? (Y,N) Condition of house: Type of freeze protection: Efec heat
Well: Diameter: 10" Type: Shave Packed Yield (gpm): Properly sealed? (Y,N)
Well: Diameter:
Size of blow-off: Sample tap: Before treatment? (Y,N) After treatment? (Y,N) Pumps: Capacity: GPM: (Y,N) HP: 15 Pump intake depth: 86 Auxiliary Power? (Y,N)
Pumps: Capacity: GPM: 100 HP: 15 Pump intake depth: 86 Auxiliary Power? 11 (Y,N
Type pump: Vertical Jurline Height above floor (pump/casing): 18"/
Storage at well site: Elev: Hydro: Ground:
If hydroautomatic, air volume control?(Y,N) Safety valves?(Y,N) Coded?(Y,N)
High service pumps: 1gpm hp 2gpm hp 3gpm hp Auxiliary Power? (Y,N
Is the water treated at this well? W N If yes, complete back of form.
If other wells are treated here, which ones? If treated elsewhere, where? HOGIO TIME!
If other wells are treated here, which ones? If treated elsewhere, where? HB 670 PIANT If purchase, retreat? Y N If yes, complete back of form. Depart Vent Depart Vent



WELL NUMBER	704.	BY SALA	15 / THOM	MAS	DATE 3-18-02		
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME	
85	30	50	20	25	100	05	
		50	20	20	143	15	
		63	33	15	142	25	
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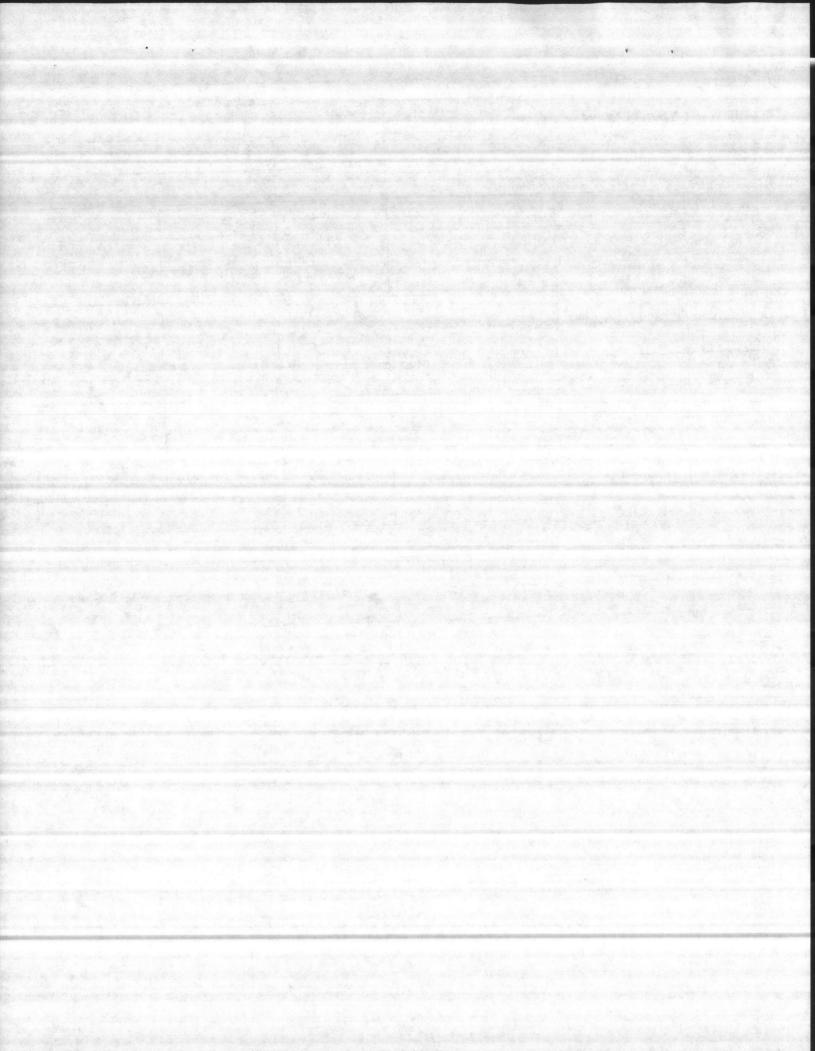
REMARKS P/H - 35

ANUFACTURER	STAGE	S,N.	TOTAL HEAD	SIZE
			TOTAL HEAD	SIZE
		Legisland them, the many the property of	Company of the State of the Sta	1



WELL NUMBER	704	BY STEU	0.10-1-0	0.4		
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	DATE /O-/	START
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NUFACTURER STAGE S.N. TOTAL HEAD SIZE

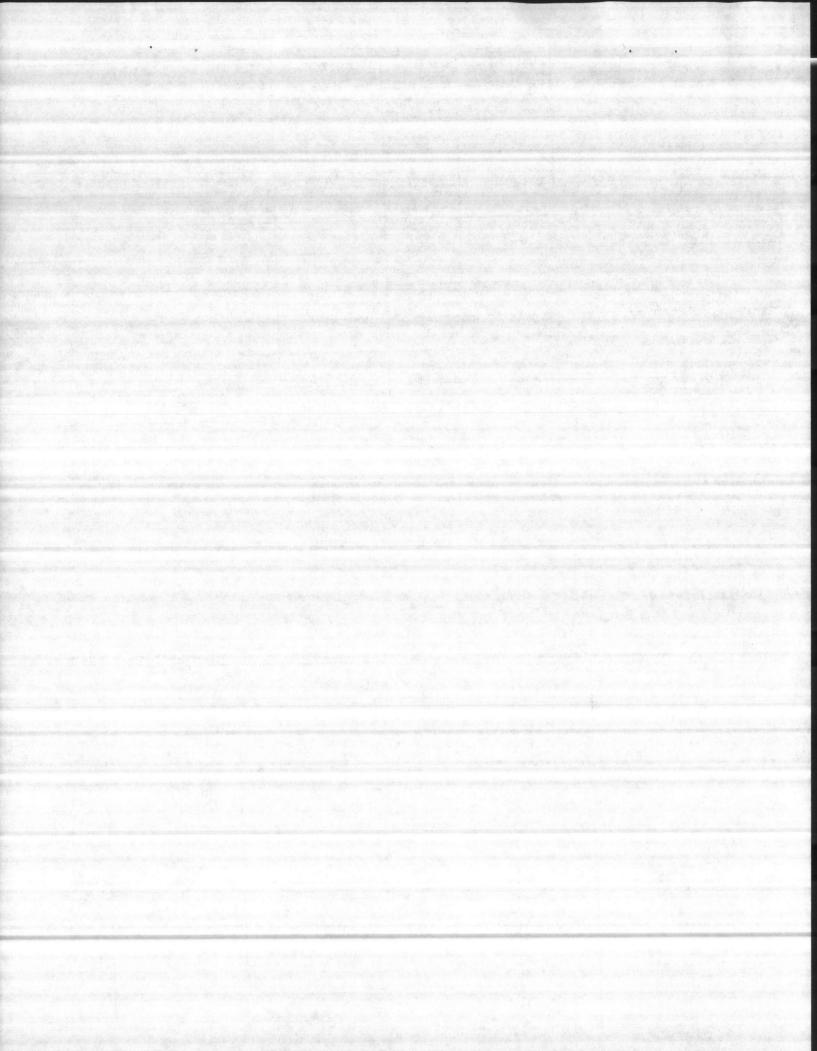


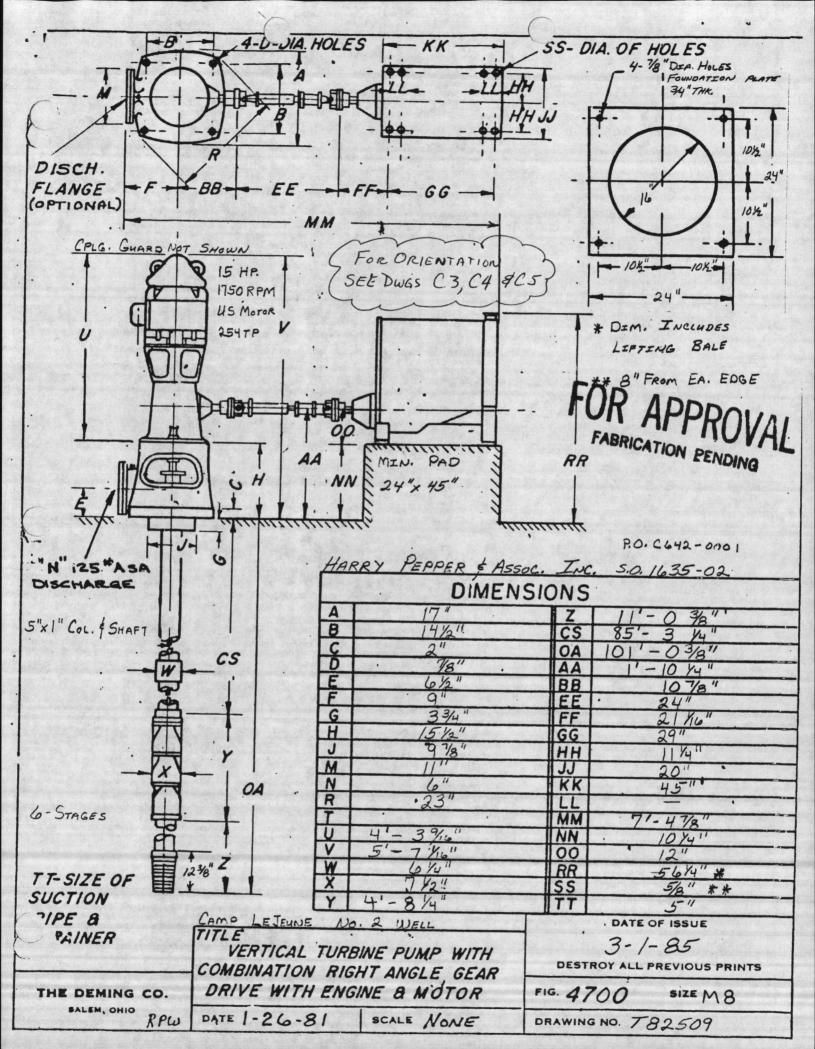
WELL NUMBER AIR LINE	5TATIC LEVEL	PUMPING LEVEL	DRAIN	DISCHARGE		-14-90 START
86	26	58	DOWN	PRESSURE 23	GPM 108.	TIME
		58	32	18	115	1115
		60	34	15	/33	1/30
		62	36	10	149	1145
		64	38	5	159	1200
			Service Control			
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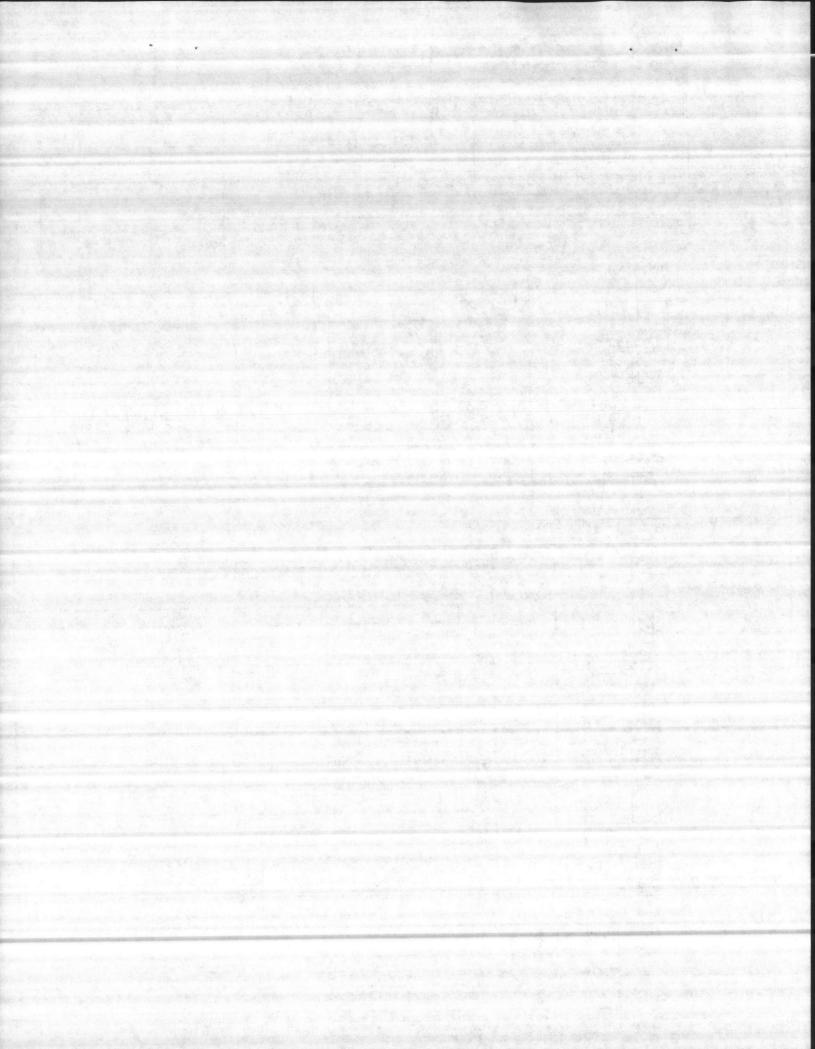
REMARKS

Dead head 42- PSI Seft set @ 8 151

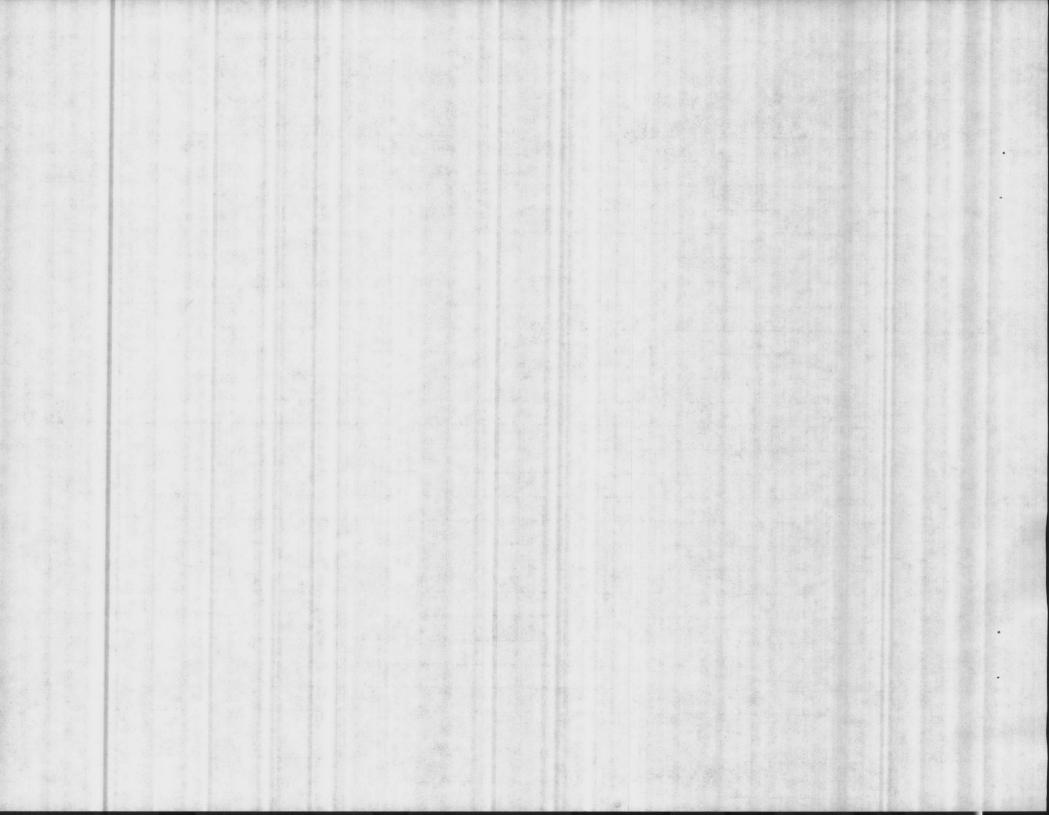
MUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
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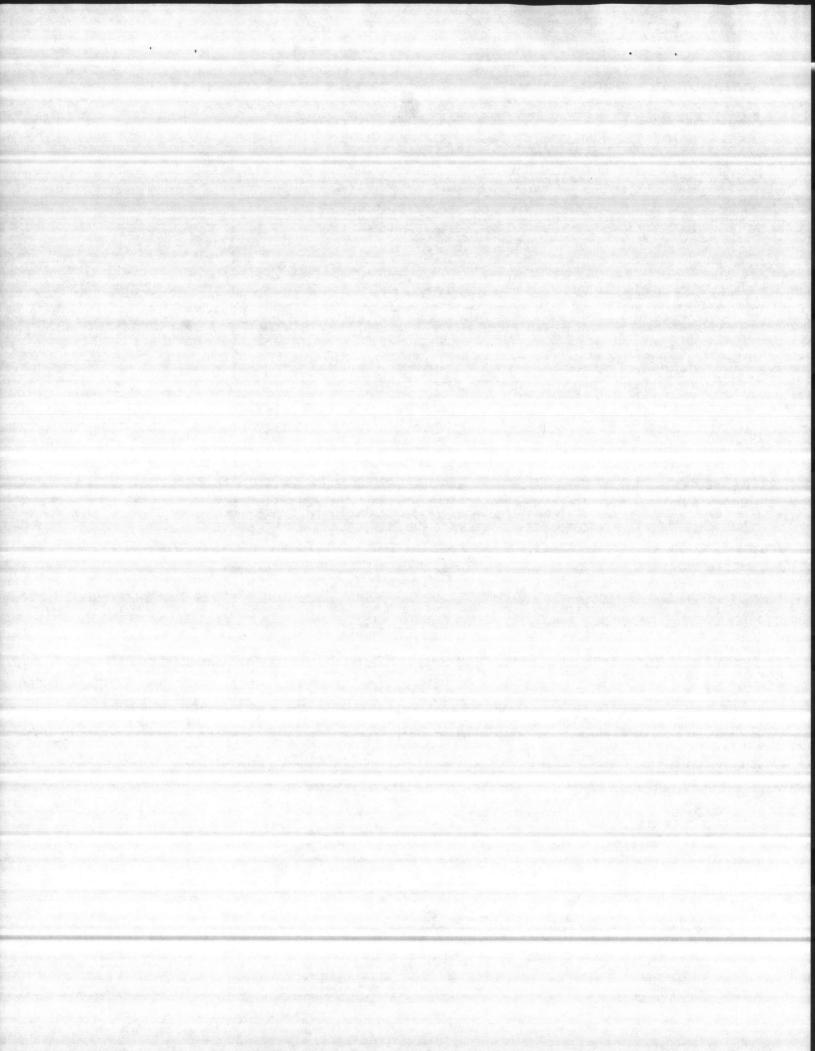




CAMP LEJEUNE NO. 6 WELL DEMING PUMP CO. SALEM , OHIO , U.S.A. CHARACTERISTIC CURVES 240 HARRY PEPPER & ASSOC. S.O. 1635-06 P.O. C642-0001 M 8 STAGES 5 MPELLER 22665 FIG. 4700 SIZE DESIGNED RATING: G.P.M. 260 RPM 1770 100 OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE 200 GUARANTEED MIN. FFF. 90 160 80 70 120 60 50 80 F40 BHP 560 400 480 160 240 80 U. S. GALLONS PER MINUTE DATE 2-20-85 SERIAL NO. TMP. DIA._ 5 5/16" Q23645



	INTRACTOR'S S		L TRANSMITTAL		RACT NO		ITTAL NO	DATE	
FROM CONTRACTOR					C-1644		15	5-30-86	
			5		PROJECT TITLE AND LOCATION Bolcomb Sivd Water Treatment Plant				
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	ry Von Gesen	A Assoc	iates Inc.	MC.	. Op Lejour	no. Sur	in Carol	lina	
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	COPY TO ROIC		oicc		CTOR REPRESENTATIV	VE (Signature)	Line		
	RECEIVED BY REVIEWER	C	FROM (Reviewer)	21	Phil Reese This Time				
	6/3/86			7 3375 ACC		1			
		d	HENRY VON OESEN	William Street				- X	
	tractor calls attention	to and suppor	ndicated. Approval of an item dets the deviation.	oes not include	approval of any devi	ation from the	e contract req	uirements unless the	
7	Submittals are forward	ded to LANTDI	V with A-E recommendations in	ndicated in REV	EWER USE ONLYS	Section and in	comments b	elow on ONE COPY of	
_	transmittal form.								
VIE	WER'S COMMENTS								
	S TO ICC (2) YTDIV (1)		DATE	SIGNATO	RE				



R. L. MAGETTE COMPANY

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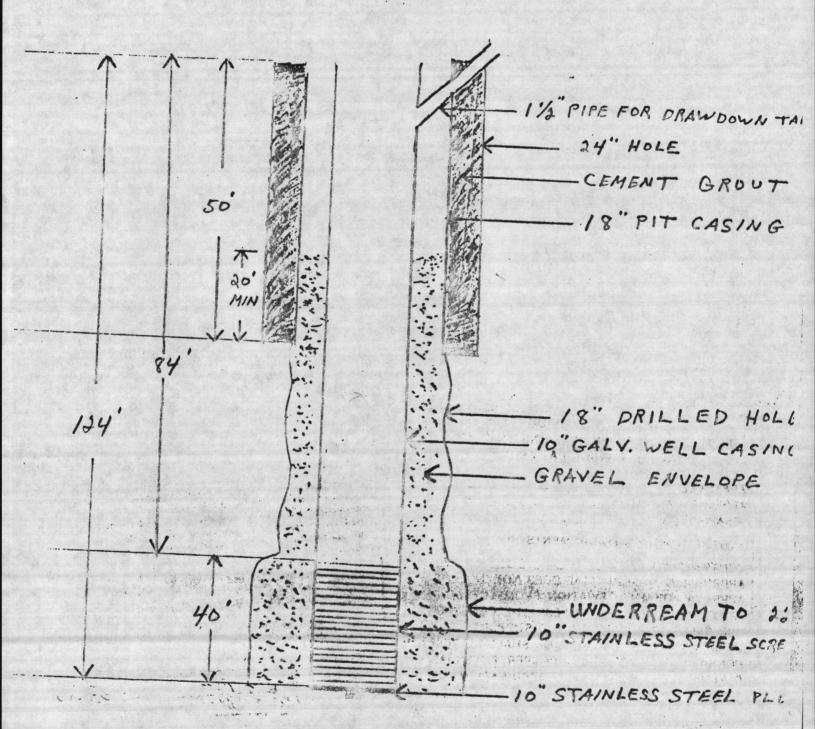
WATER SUP Y CONTRACTORS
DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

P. O. Box 908 Phone - 304 - 357 4105

WELL #6

P. O. Box 908 Phone - 804 - 357-4105 Smithfield, Virginia 23430



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NAVAL	FACILITIES NORFOLK	ENGINEER!	ING COMMAND

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DISAPPROVED	

SUBJECT TO THE REQUIREMENTS OF

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 Monum BATEJUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number 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
Signature CQC Rep Dhil Pouc DATE 5-30-86

R. L. MAGETTE COMPANY

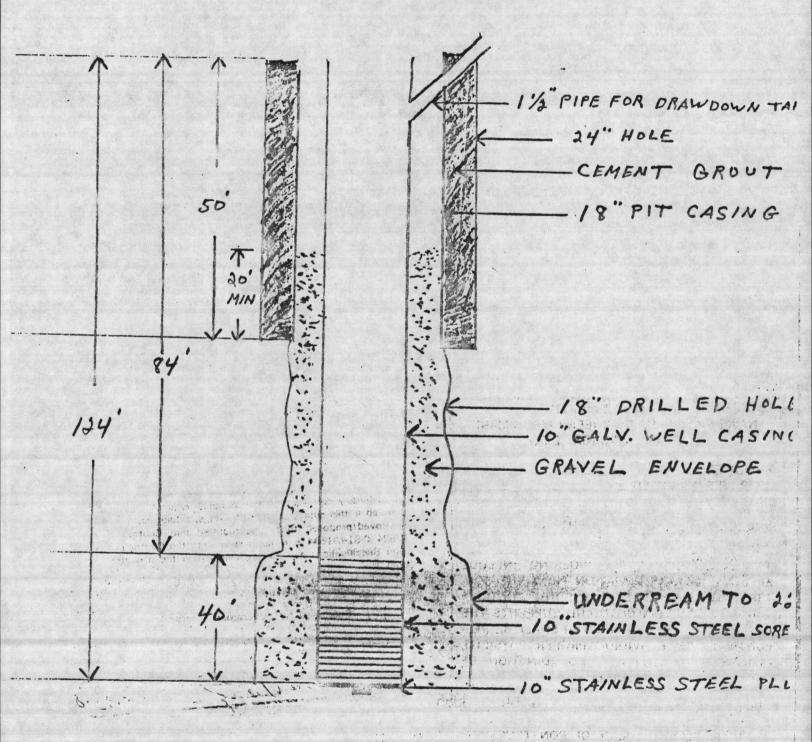
WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

P. O. Box 90 Phone - 804 - 357-4105

WELL #6

Smithfield, Virginia 23430



NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511

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 CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE
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TRADES, ETC., AS REQUIRED.

REVIEWER PMSmm BATEJUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

marked in this submittal, shop drawings approved/proposed to be incorporated N62470-81-C-1644 is in compliance will and Specifications and can be installed and is:	s, catalog cut (s), etc., and into Contract Number
Approved for use.	
Submitted for Government a Approved for use subject to specific deviation.	
Authorized Reviewer Signature CQC Rep.	DATE DATE

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R. L. MAGETTE COMPANY

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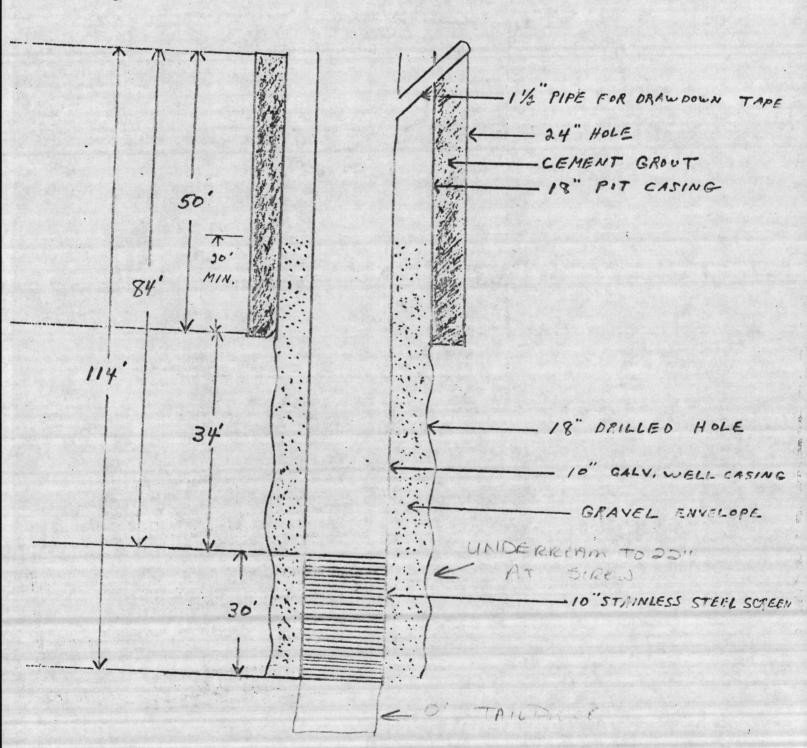
Wells, Pumps and Community Water Systems

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

Smithfield, Virginia 23430

#6 WELL

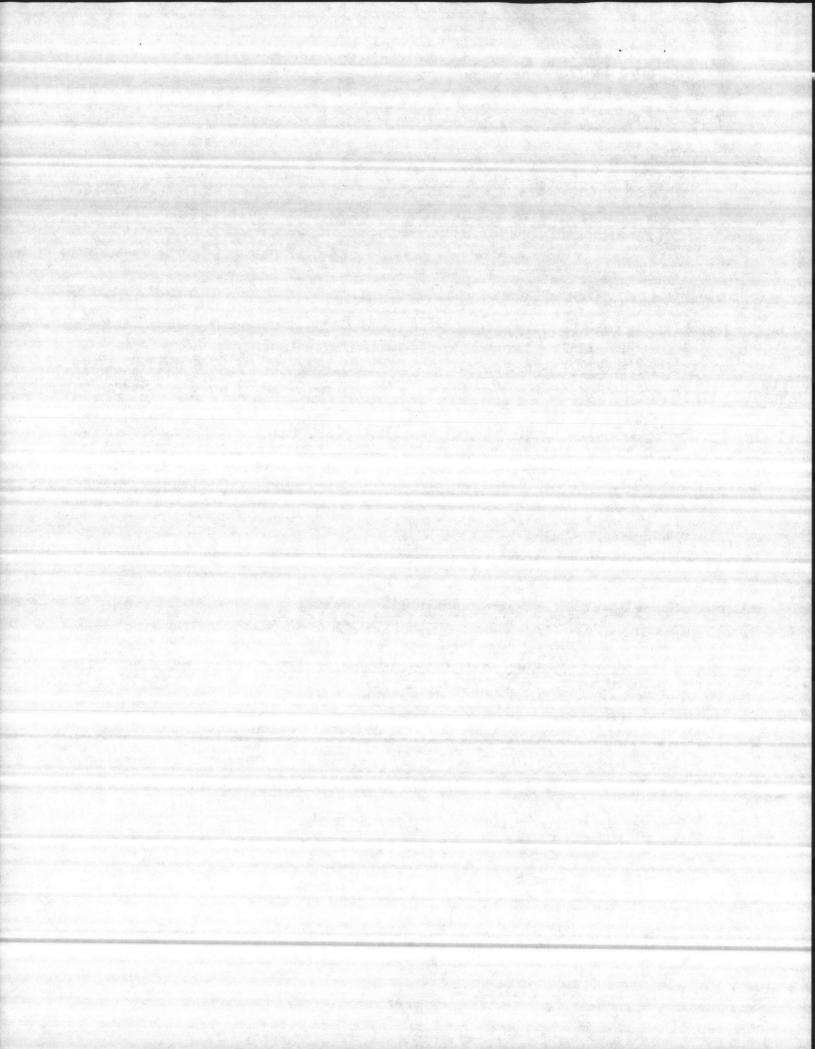


NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511
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FOR OFFICER IN CHARGE OF CONSTRUCTION

	marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number and Specifications and can be installed in the ullocated space, and is:
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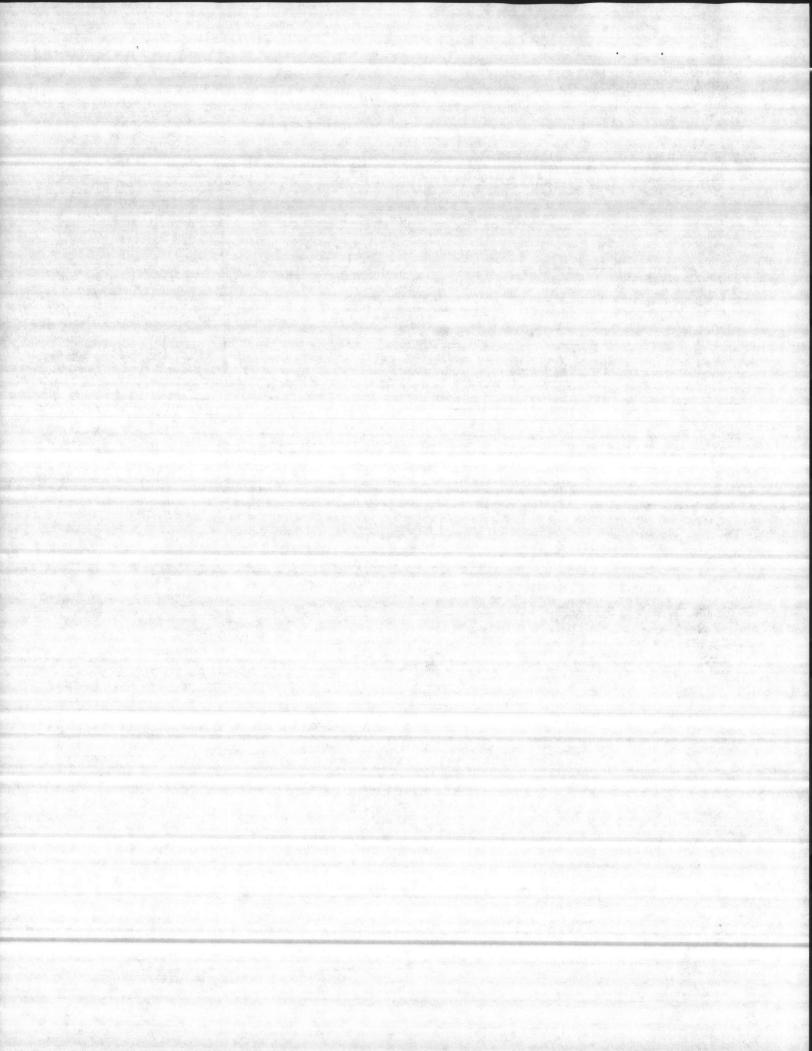
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Associates, Inc. CONTRACTOR USE ONLY List only one specification division p only one of the following categories on each and indicate which is being submit (Type. size, model no., Mit brochure num OTARY DRILLED WATER WELL hop Drawings	Deviation/Su For OICC ATION g. name, dwg. or ber)	Water orth C	A-App D-Diss AN-Ap RA-Re C-Con R-Ress	ACTION CODES croved approved approved as noted accept acknowledged. animents ubmit REVIEWER'S INITIALS
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	NTDIV NORFOLK 4-	SUBMITTAL TRANSMITTAL 4355/3 (Rev. 11-80)	CONTRACT NO	TRANSA	AITTAL NO	DATE
FRO	DM CONTRACTOR		81-C-1644		95	9-20-85
		Associates, Inc.	PROJECT TITLE AND LOCATIO			
TO	-, repper o	moderates, Inc.	Holcomb Blvd	Water 1	Creatmen	t Plant
He	enry Von Oese	en & Associates, Inc.	Cn Loisuns N	la1 C	Hart Carlot	
		CONTRACTOR USE ONLY	Cp Lejeune, N	orth Ca	11	
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	02734	ROTARY-DRILLED WATER WELL	S Well # 6			a particular
	2.2	Driller's Log		7	A	DB 10/3
	2.2.3	Electric Log		7	A	DUB 10/3
	2.2	Gamma Log		7	A	DUB 10/
		Water to a second			1	mk 11
1	WAKE 2.2.2	Water Analysis and Sieve	Analysis	. 7	A	10/3
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OPY (2.2.4 RACTOR'S COMMENTS DF TRANSMITTAL AND SUE	Recommendation and Data St	ıbmittal	7		DGB 10/2
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LAW & COMPANY

Consulting and Analytical Chemists

ESTABLISHED 1903

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

Well #704

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

TESTS / IINTTE

DATE RECEIVED: 7-25-85 11:30

DATE COLLECTED: 7-25-85 9:00

COLLECTED BY:

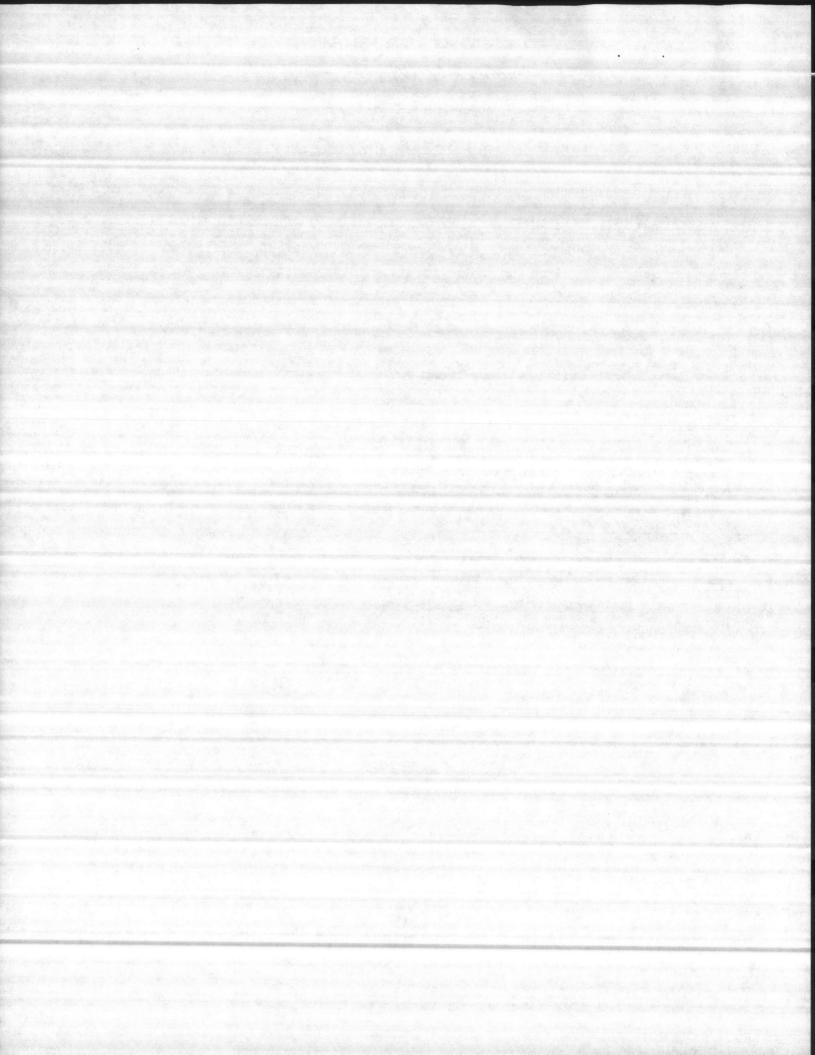
CUSTOMER

LAB ID#

EW8687

SAMPLE DESCRIPTION: WELL #6

<u>TESTS/UNITS</u>		RESULTS 84-94
DISSOLVED OXYGEN	(MG/L)	6.0
TEMPERATURE	(°F)	65
pH		7.9
CARBON DIOXIDE	(PPM)	0
SULFIDES	(PPM)	.32
CHLORINE DEMAND	(PPM)	1
COLOR	(APHA)	35
TURBIDITY	(NTU)	50
TOTAL ALKALINITY	(PPM)	257
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	228
CARBONATE	(PPM)	29
TOTAL HARDNESS	(PPM)	166
NON-CARBONATE	(PPM)	0
CARBONATE	(PPM)	
TOTAL DISSOLVED SOLIDS	(PPM)	166
CONTINUED	(,,,,,	238



CLAW & COMPANC

Consulting and Analytical Chemists

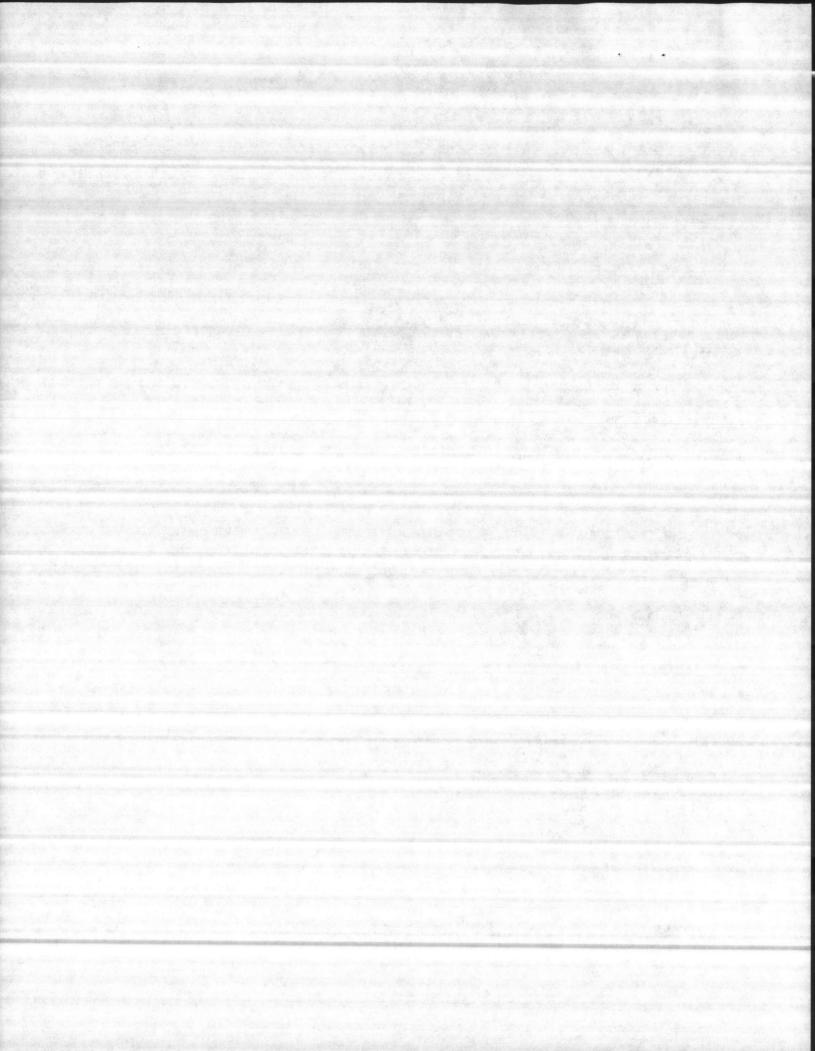
ESTABLISHED 1903

Main Office 1711 Castle Street P.O. Box 629 Wilmington, N.C. 28402 Well #704

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

TESTS/UNITS		RESULTS 84-94
SPECIFIC CONDUCTANCE	(UMHOS)	330
SULFATE	(PPM)	23
CALCIUM	(PPM)	50
MAGNESIUM	(PPM)	1.1
SODIUM	(PPM)	9.5
POTASSIUM	(PPM)	2.4
CHLORIDE	(PPM)	9
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	2.1
MANGANESE	(PPM)	<.02
SILICON	(PPM)	2.1
FLOURIDE	(PPM)	<.2

TOTAL CHARGES \$180.00





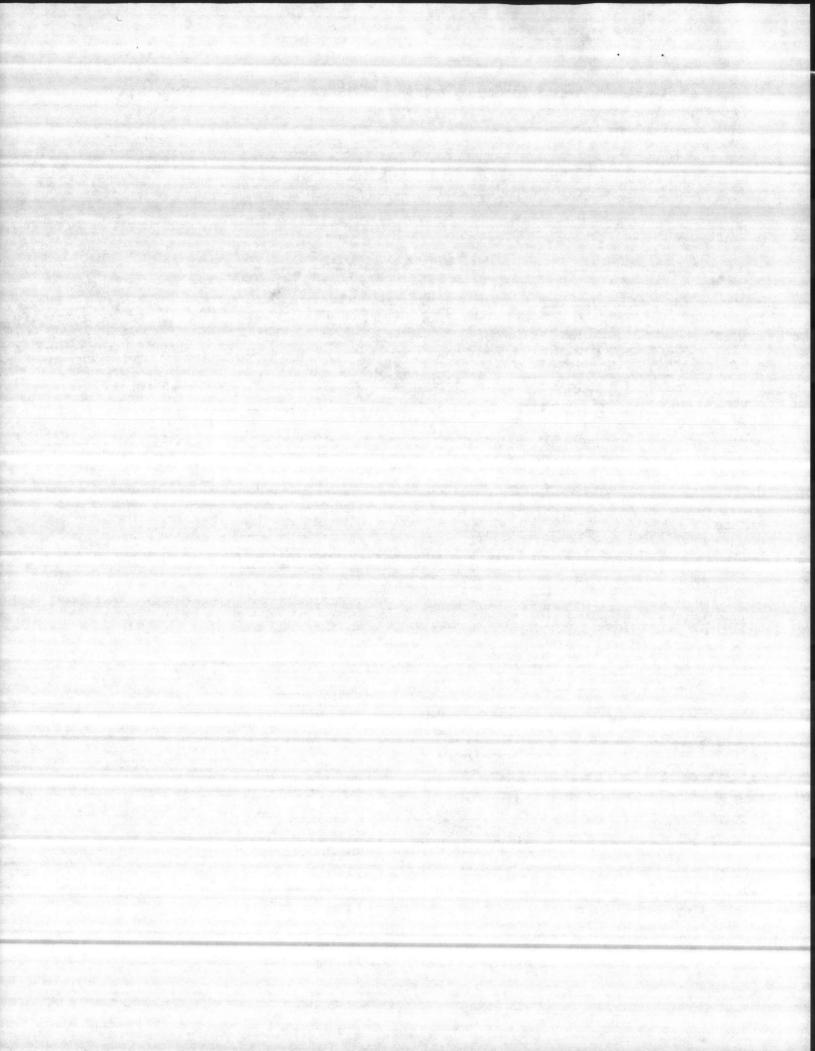
1201 SAWYER ST. ◆ P.O. BOX 666 ◆ (713) 869-5771 ◆ TELEX: 77-4667 ◆ HOUSTON, TEXAS 77001

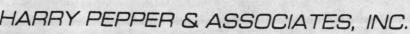
STANCLIFF RIBBED WIRE WRAPPED SCREENS

FOR OIL AND WATER WELLS

SIEVE ANALYSIS

OCATION	6				
SIEVE OPENINGS	RETAIN	NED WTS.	TOTAL %		
- INCHES	GRAMS	*	CUMULATIVE	PASSED	REMARKS
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	oranie zasta				
	8 TA SK 1 THE				
020	1.4	11.29	11.29		
016	1.2	9.67	20.96		
014	1.2	9.67	30.63		
012	1.0	8.06	38.69		
010	.9	7.25	45.94		
. 008	.9	7.25	53.19		
006	3.3	26.61	79.80		
004	1.4	11.29	91.09		
003	.6	4.83	95.92	The second of the second	
PAN	.5	4.08	100.00		
TOTALS	12.4	100.00			





Item#5

ENGINEERING CONTRACTORS

September 20, 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 # 6

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.

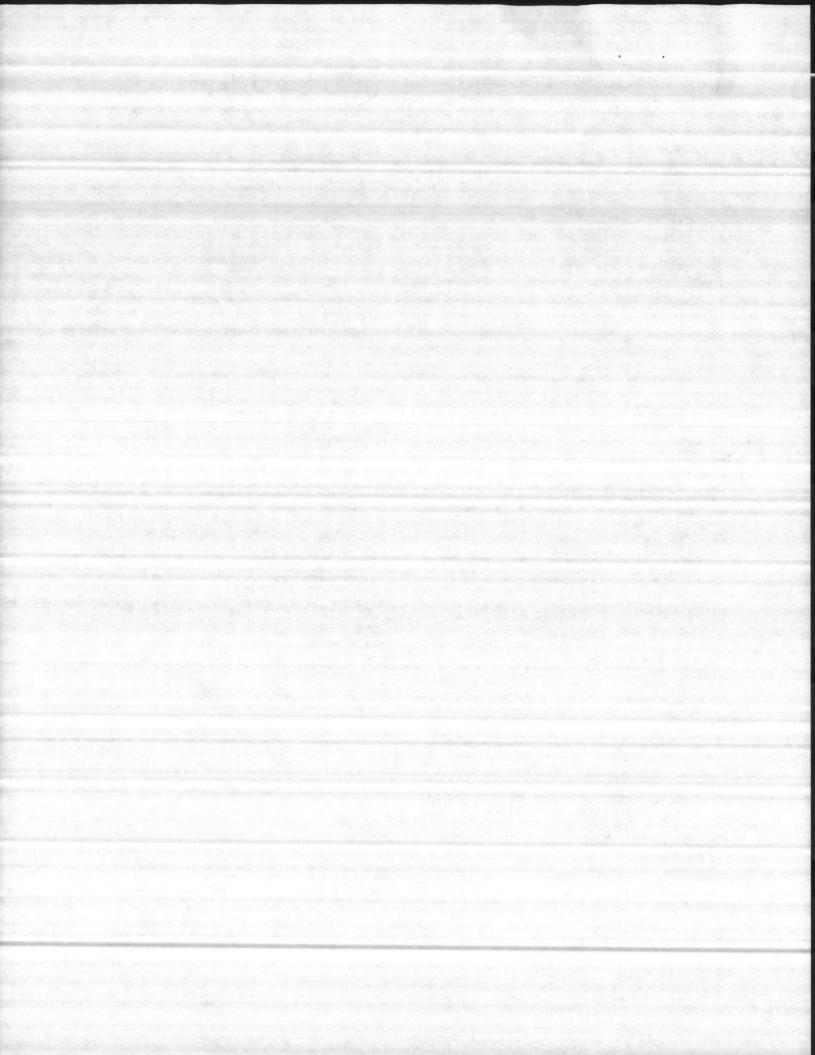
We recommend a line of .30-slot stainless steel screen set at the 84' to 114' level for a total of 30 VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well may yeild 260 GPM.

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



FCR

R. L. MAGETTE COMPANY

DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

Serving Tidewater Virginia and Eastern North Carolina.

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

ATLANTIC DIVISION Smithfield, Virginia 23430/AL FACILITIES ENGINEERING COMMAND NCRFOLK, VIRGINIA 23511

> APPROVED -APPROVED AS HOTED DISAPPROVED_

SUBJECT TO THE REQUIREMENTS OF

CONTRACT NO. NOL470 -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-POYSIBLE FOR PROVIDING PROPER PHYSICIAL WEIGHTS. COORDINATION OF DIMENSIONS

TRADES, ETC., AS REQUIRED.

DRILLERS LOG

Brown sand and topsoil

0 - 5 5 - 20

Brown sand and blue clay FOR OFFICER IN CHARGE OF CONSTRUCTION

20 - 50 Fine white sand

Camp Lejune North Carolina

Well No. 6

Fine white and gray sand mixed 50 - 75

75 - 85 Fine strata sand

85 - 110 Coarse strata sand and shells mixed

110 - 125 Strata sand mixed with fine sand

125 - 165 Fine gray sand

165 - 190 Fine gray sand

190 - 200 Very fine sand and clay

200 - 215 Very fine sand

215 - 235 Very fine sand and clay

235 - 250 Very find sand and clay

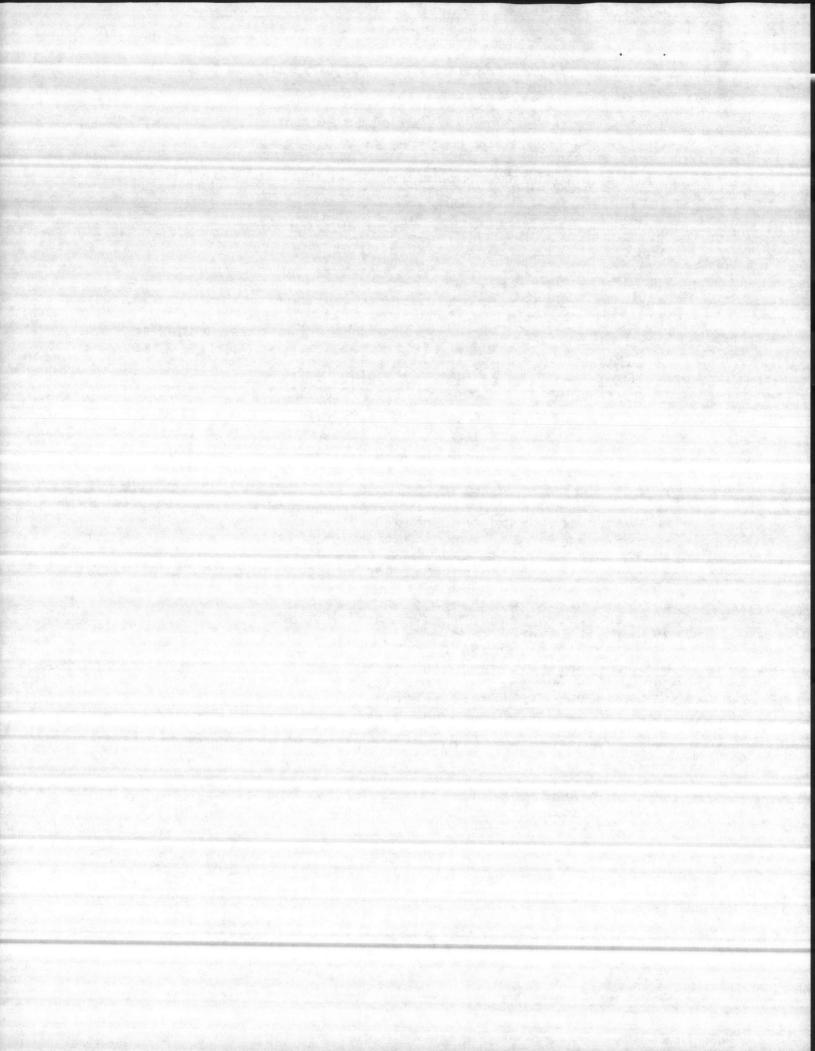
the is hereby certified that the (material) (equipment) shown and marked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated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

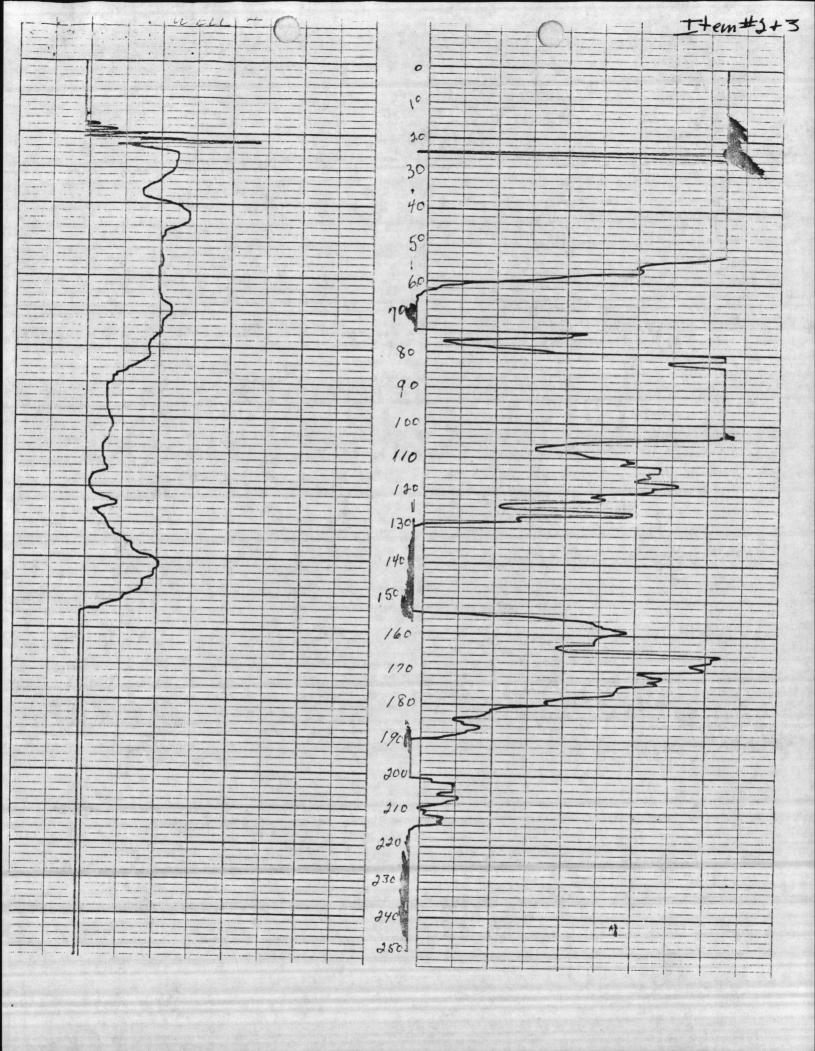
Approved for use. Submitted for Government approval. Approved for use subject to Government approval of specific deviation.

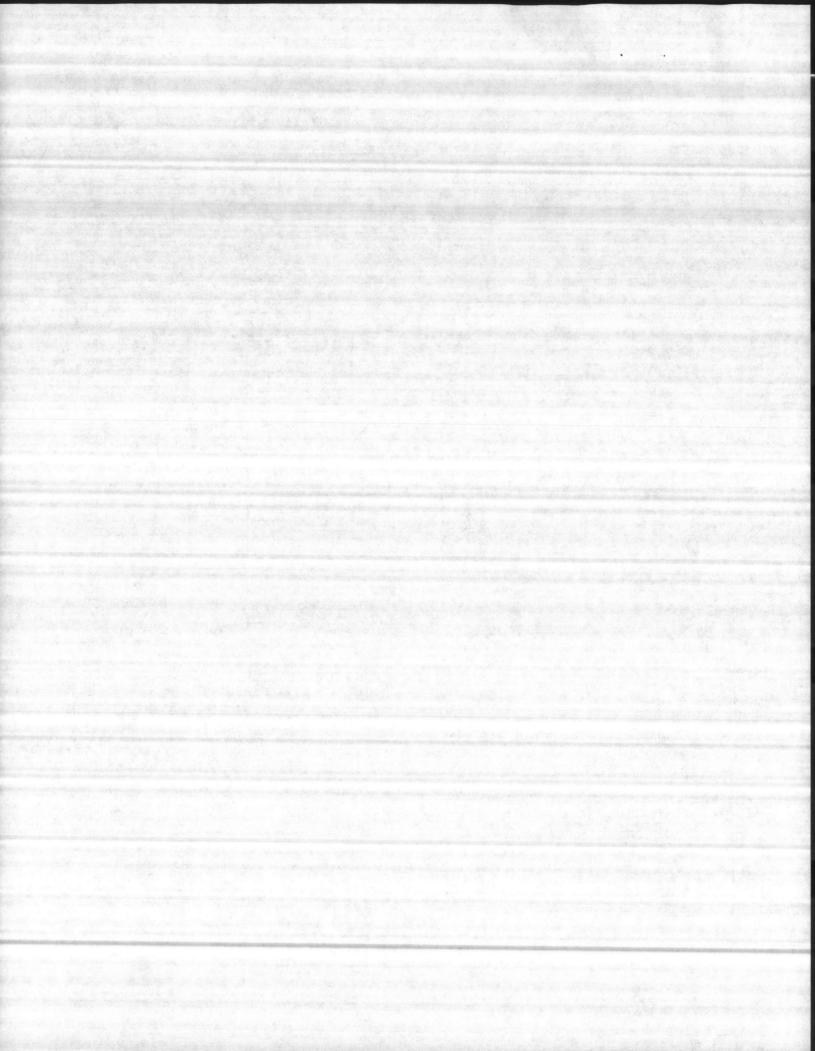
Authorized Reviewer

ignature CQC Rep.

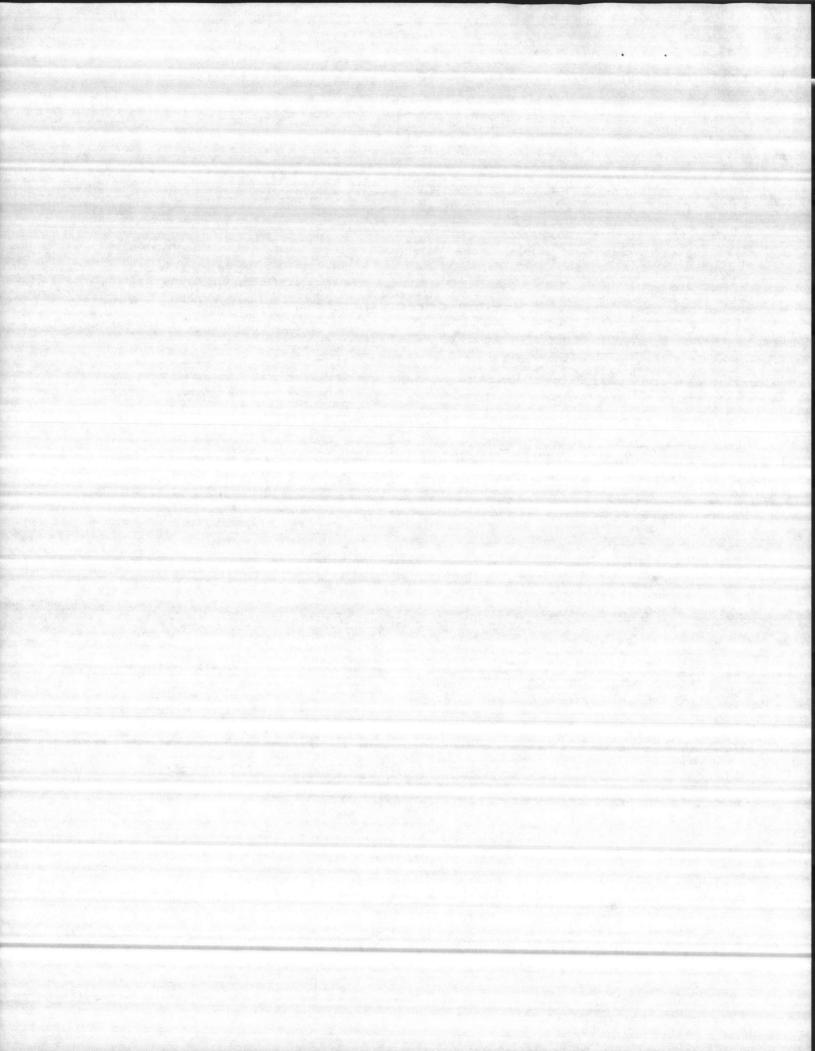
OCT 03 1985







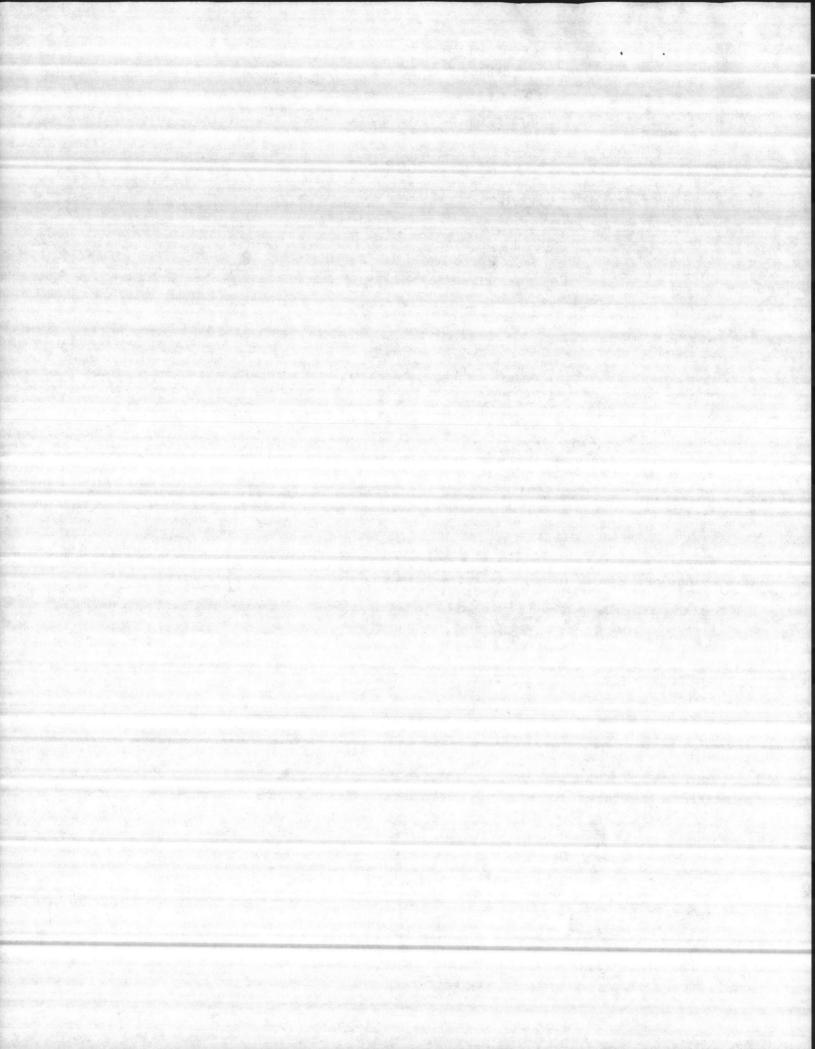
LA	NTDIV NORFOLK 4-4	4355/3 (Rev.	AL TRANSMITTAL	CONTRACT NO	TRANSA	MITTAL NO	DATE		
Harry Papper & Associates, Inc.				81-C-1644 1		3-18-86			
				PROJECT TITLE AND LOCATION					
0	And the second	- 21550C.	rates, Inc.	Holcomb Blvd V	water I	reatment	Plant		
I	Henry Von Oes	en & As	sociates, Inc.	MCB, Cp Lejeuz	na Nor	th Caral	1		
		47 37 1	CONTRACTOR USE ONLY	Tatos, op hejem	ie, Nor	1			
		·Li	st only one specification division p				EWER USE ONLY		
			of the following categories on each			A-Appro	CTION CODES		
			and indicate which is being subm	nitted		D-Disap	proved as noted		
	Contractor Approved		OICC Approval	П		RA-Rec	eipt acknowledged.		
3				Deviation/Substitution For OICC Approval			C-Comments R-Resubmit		
N	PROJ. SPEC. SECT. & PARA. and/or		ITEM IDENTIFIE	CATION					
	PROJ. DWG. NO.		(Type, size, model no., M brochure num	fg. name, dwg. or	NO. OF COPIES	CODES	REVIEWER'S INITIALS		
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			DICC	CONTRACTOR REPRESENTATIVE	Signature	1)			
	COPY TO ROICC			Phil Reese 4	Bil.	10010			
	3/21/86		FROM (Reviewer)	TO	1				
100			Henry vnn Oesen &						
1	ractor calls attention to	with action in	dicated. Approval of an item does not the deviation.	not include approval of any deviation	on from the	contract requir	ements unless the c		
t	ransmittal form.	O TO LANT DI	/ with A-E recommendations indica	ated in REVIEWER USE ONLY Sec	tion and in c	omments belo	w on ONE COPY of		
	R'S COMMENTS		A CONTRACTOR OF THE SECOND						
	Contr	actoria	approval appears t						
	Annual a bridge	accor o	approvar appears t	o de appropriate.					
			DATE						
S T(ICC); (2); (1)		DATE 4/2/86	SIGNATURE					



Well # 6		141	iping Rate 200 GPM	ITEM # 1
TIME	DIMD CEMMINA			
12:00PM	PUMP SETTING 84'	STAT	PIC CONTRACTOR	
	04	19'	4"	
	PUMPING LEVEL	DRAW	DOWN	
1 2.00pv		100		
12:00PM 12:01	49'6"	30'	12"	
	50'6"	1'		
12:02	51'0"	6"		
12:03	51'6"	6"		
12:04	52'3"	9"		
12:05	54'10"	2'7		
12:06	5 4 ' 5"	2 /		
12:07	54'3"			
12;08	54'3"	建物 经本		
12:09	54'3"			
12:10	54'3"	7		
12:15	54'6"			
. 12:20	54'6"	3"		
12:25	54'8"	4 - F		
12:30	54'11"	2"	And the second s	
12;35	55'	3"	ATLANTA	
12:40	55'7"	1"	NAVAL FACILITIES	DIVISION
12:45		7"	I The I find the first the first	THE PROPERTY AND ADDRESS OF THE PARTY OF THE
12:50	55'7"	-		GUMA 23511
12:55	55'7"	_	APPROVED X	
1:00	56'5"	10"	IMPROVED AS MAYOR	
2:00	57'2"	9"	DISAPPROVED E	
3:00	57'11"	9"-		
4:00	58'6"	7"	SUBJECT TO THE TO A	1,0100 00
5:00	58'6"		CONTRACT NO NEZ47	0 01
6:00	58'6"		APPROVIN OF A CHARLE	01-6-1644
7:00	59'3"	9"	AFPROVAL OF YOR !	A STATE WALLINE
	58'11"	8"	TRACT PROMPE	[1] [1] [2] [3] [4] [4] [4] [4] [4] [4] [4] [5] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
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9:00	59'8"		TOR COLLS ATTO WAR TO	MA STAR THE
10:00	60'2"	6"	PENATION - THE COUNTRY FOR HE FOR HE FOR HE SYLDING	WAR SHALL BE OSE
11:00	61'4"	1'2"	DIME SIGNA FROM SHAP	ER PHYRICIAL
12:00AM	61'8"	4'	TDANTO ET	CONDITION OF
1:00	61'11"		1 May - D, E. C., AS REALINE	3.
2:00	62'4"	3"	REVIEWS MM	ZADD .
3:00	62'9"	5'	Je forms	TAPR 0 2 1988
4:00	63'3"	5"	FOR GEEICED IN A LOS	
5:00	63'11"	6"	FOR OFFICER IN CHARGE (OF CONSTRUCTION
6:00	61'7"	8"	The same of the sa	
7:00	61'11"	a harata da sa		
8:00	61'10"	4"	of this submittal shop drawing	
9:00	01 10	- K.	in this submittal, shop drawings, ca	quipment) cheven
10:00	u u	- 410	wed/proposed to be incorporated in 70-S1-C-1644 is in compliance with the	to Contract
1:00	"	- Land c	70-61-C-1644 is in compliance with the openifications and can be installed in	ne Contract Or win
2:00PM	"	- and is	Specifications and can be installed in s:	the allocated space \$
		- 4 stands		
			Approved for use.	
		X	Submitted for Government appro	vol.
			Approved for use subject to Gove specific deviation.	

Authorized Reviewer_

Scina ure CQC Rep. Phil fers DATE DATE 3-18-86



12:00	PM	28'6"
12:01		25'4"
12:02		25'
12:03		25'
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12:05		22'8"
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