## FILE FOLDER

## **DESCRIPTION ON TAB:**

Well #709

	A SECURITY OF THE PROPERTY OF
Ш	Outside/inside of actual folder did not contain hand
	written information
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Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08 

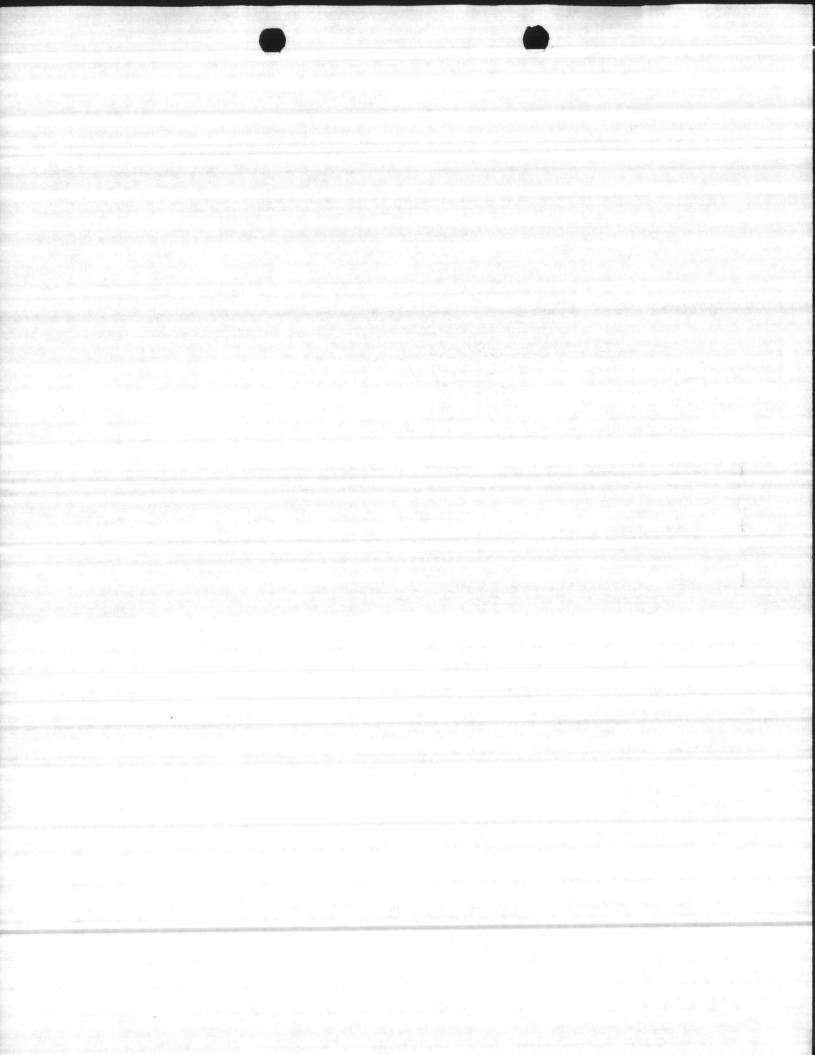
WELL NUMBER	709.	BY SHE	AS /THO	MAS	DATE 4-	-04-02
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	20	50	30	50	100	30
		57	37	40	151	40
		67	47	30	154	50
		75	.55	25	170	00
						AND THE RESERVE OF THE PARTY OF
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REMARKS DIH-LOS

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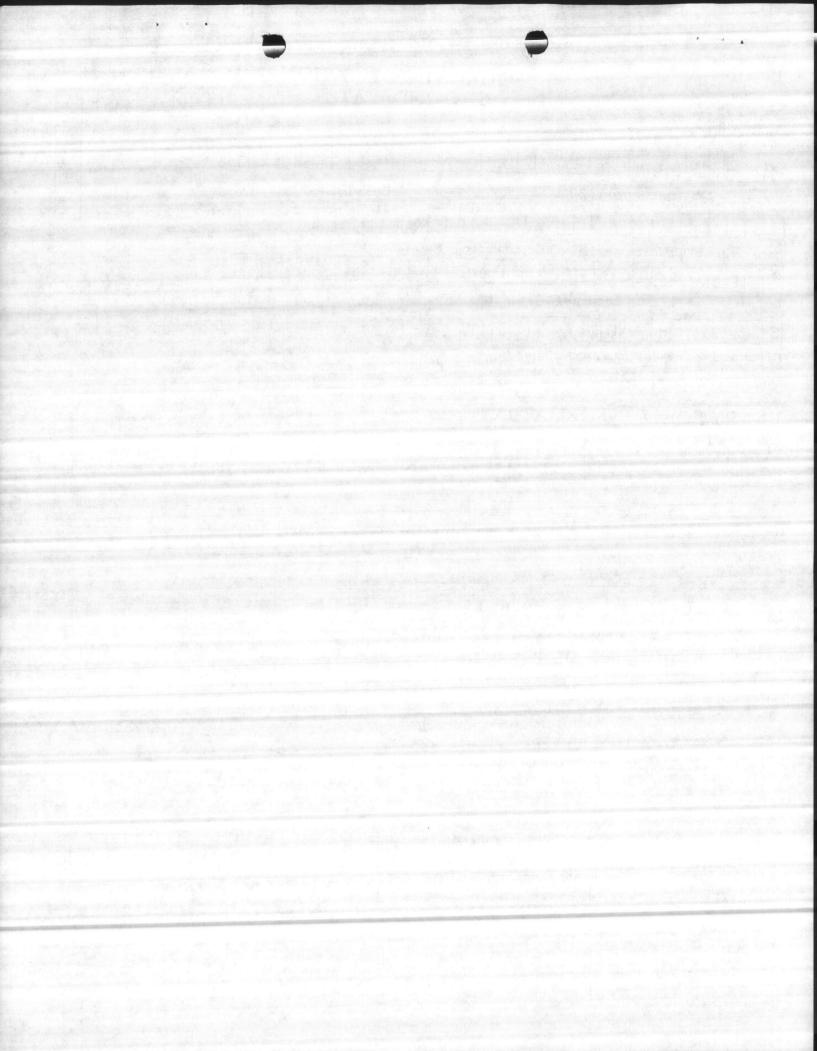
DATE 7-25-00,
PWSID 04-67-041

WELL #
WELL NAME HADNOT POINT HOZO
BLDG
CODE
AVAILABILITY $\underline{\rho}$
LOCATION D-LINE ROAD
LATITUDE34.7034v
LONGITUDE
WELL DIAMETER
WELL DEPTH/46'
SCREEN INTERVAL
YIELD
STATIC LEVEL
PUMPING LEVEL 27
PUMP TYPE VERTICAL TURBINE
MOTOR HP15
INTAKE DEPTH86
DESIGN CAPACITY ZZ 5
ACTUAL GPMX
SIZE OF CONCRETE SLAB
HEIGHT OF CASING/8"



SOURCE	INFORMATION	
GROU	JND WATER	

	SOURCE INFORMATION GROUND WATER	Date Form Completed  M M D D Y Y  2595
Owner Assigned Well Name (If purch	ase, name of system)	Code G=Ground
709 HADNOTIPE	DINT 709	W=Purchase/G Y=G w/direct influence Z=W w/direct influence
If Purchase, seller ID# Source Begin D	SWTR!	Availability  P=Permanent E=Emergency S=Seasonal O=Other
Location of well within the system (If pur	chase, location of master metal	
D- LINE ROADI	How Determined	SPS Data No. of Sats. Locked on
Latitude (N)  Day Min. Sec Deg Mir  3 442/26  0 77/	G=GPS M=Map S=Surveyed	Q# or DOP#
(If purchase, use seller's primary source la Vulnerable (VOCs) YN	Assessment Date	Ť
ENTRY POINT INFORM Owner Assigned Entry Point Code Entry Point N	D=Ground/non-permanent	Availability  P=Year-round S=Seasonal E=Emergency I=Interim O=Other
Location:	(Y,N) Control Area (100' radius)? // (Y,N) I	
Sources of pollution/distance:  Surface water within 200? Y  Adequate slope? (Y,N) Flooding	If yes, actual distance feer If	yes, bact. samples collected?(Y,N)
	(Y,N) Properly drained? 4 (Y,N) Lock	ed? (Y.N)
Well House: Free of stored materials?	Type of freeze protection: Elec	Weater
Condition of house:	CRISTILES Yield (gpm	Properly sealed!(Y,N
Properly vented? (Y,N) Casing of	lepth 5 of ft. (If unknown, Well depth:	Meter available? Y (Y,N) Size: LONO
Concrete slab adequate?(Y,N) I	f no, explain:	
Size of blow-off:	Sample tap: Before treatment!	Y (Y,N) After treatment? (Y,N)
Pumps: Capacity: GPM: 235 /72	HP: 15 Pump intake depth: _  TURBINE Height above fl	oor (pump/casing): 18
		Ground:
Storage at well site: Elev:	Hÿdro:	
If hydroautomatic, air volume control?	(Y,N) Safety valves?(Y,N) Codehp 2 ppm hp 3 gpm	hp Auxiliary Power?(Y,N
11-1/! Y	1 beale of form	
15 the water deated at this wen. W	s? If treated else	where, where? HP-20 PLANT
If other wells are treated here, which one	place back of form D. R. mie Went	
If purchase, retreat! N If yes, com	plete back of form. O Reprix Vent & Bearing Noi	, sli
Public Water Supply Section (Review 12/96)	C Denting 1	*

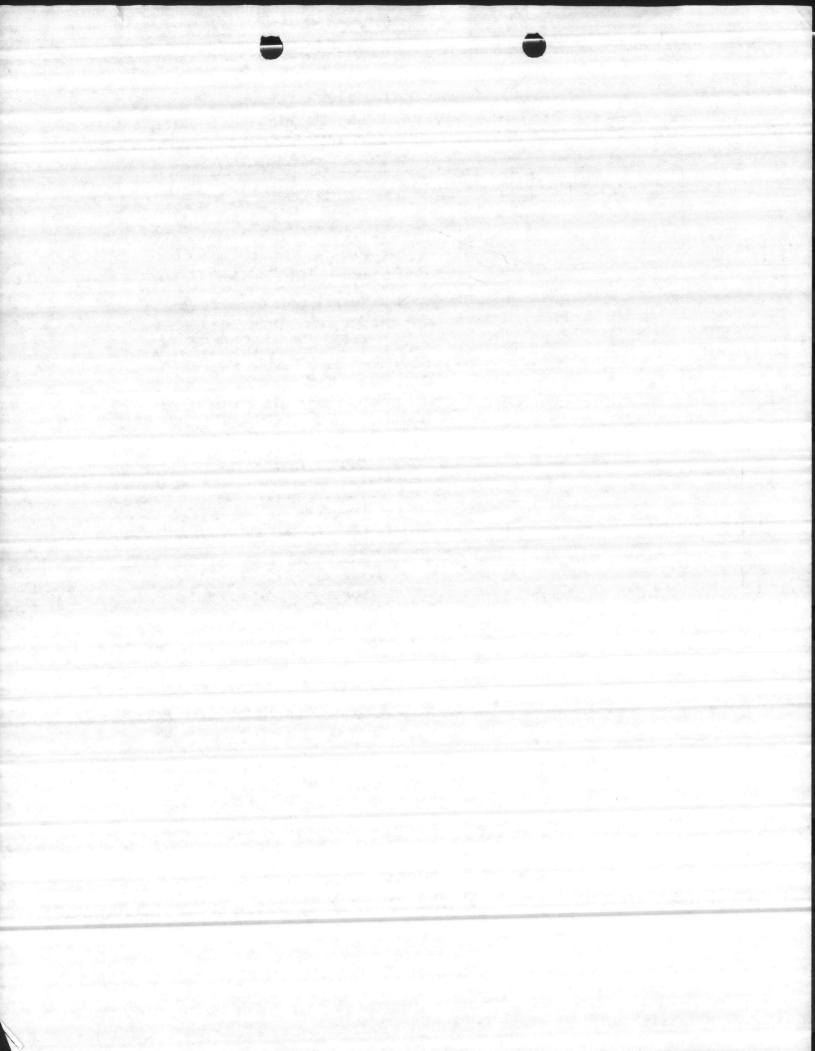


WELL NUMBER	709	BY STeve	nson & Pr	teasor	DATE 7	10-97
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START
85	21	51	30	45	100	55
		63	42	35	146	08
<u>``</u>		73	52	25	180	18
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REMARKS

P/H 63

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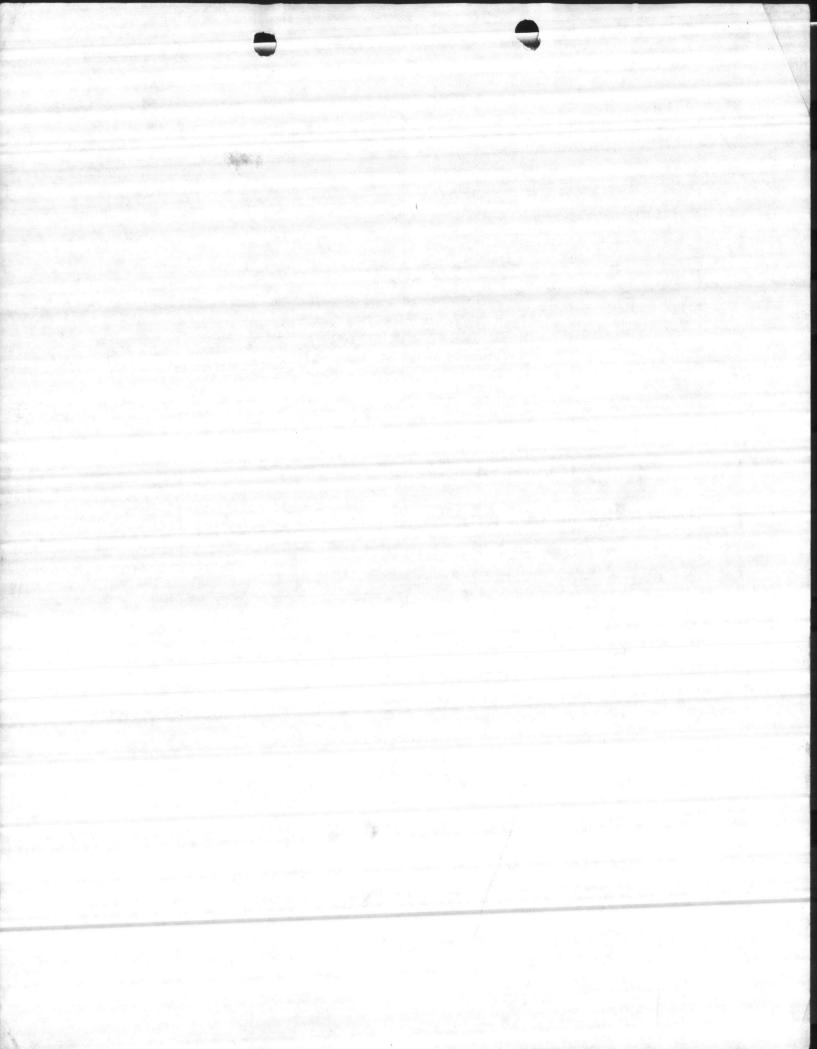


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WELL NUMBER	709	BY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DATE /	0-6-94
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	24	53	29	42	100	
		57	33	35	125	
May		62	3.8	30	140	
		66	42	25	157	
		69	45	20	172	
27.00						
		Page 1				
			*			
			- Table 19			

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D. H. 63

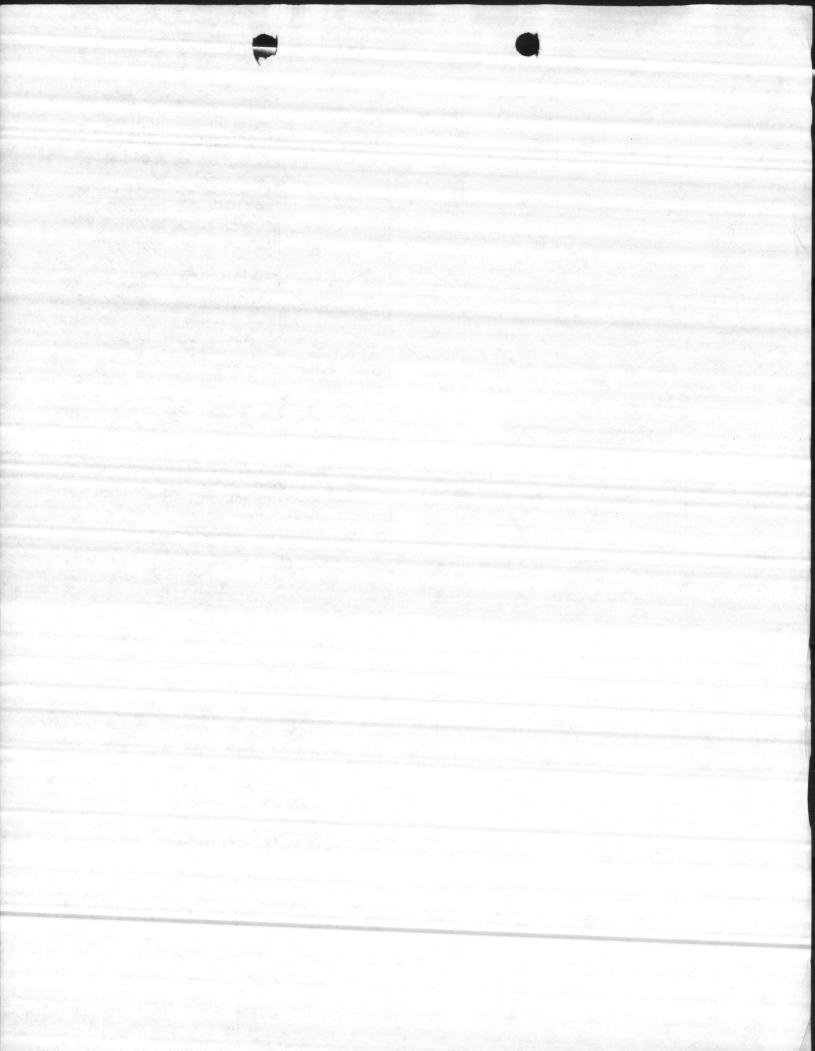
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WELL NUMBER	709	BY Tho		BROWN	DATE 9-	2-92
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRA'IN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	22	43	21	48	108	05
		51	29	41	133	15
		63	41	33	183	25
		70	48	27	212	35
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EMARKS Dead head @ 62

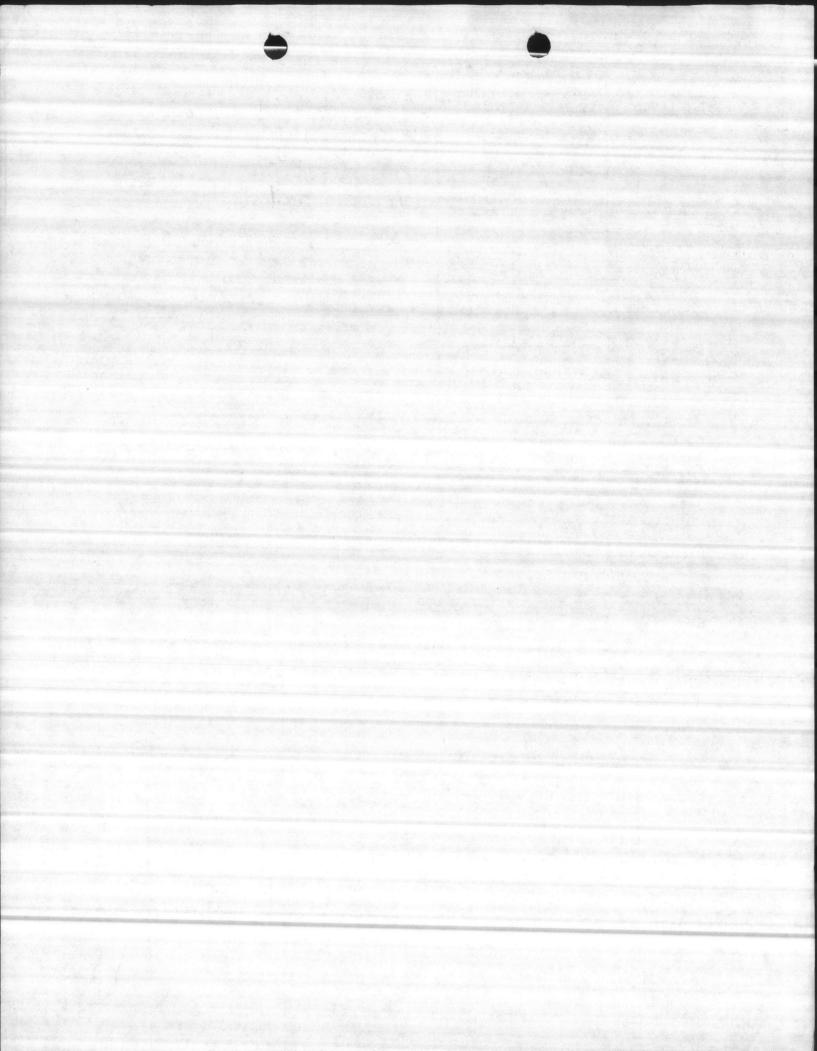
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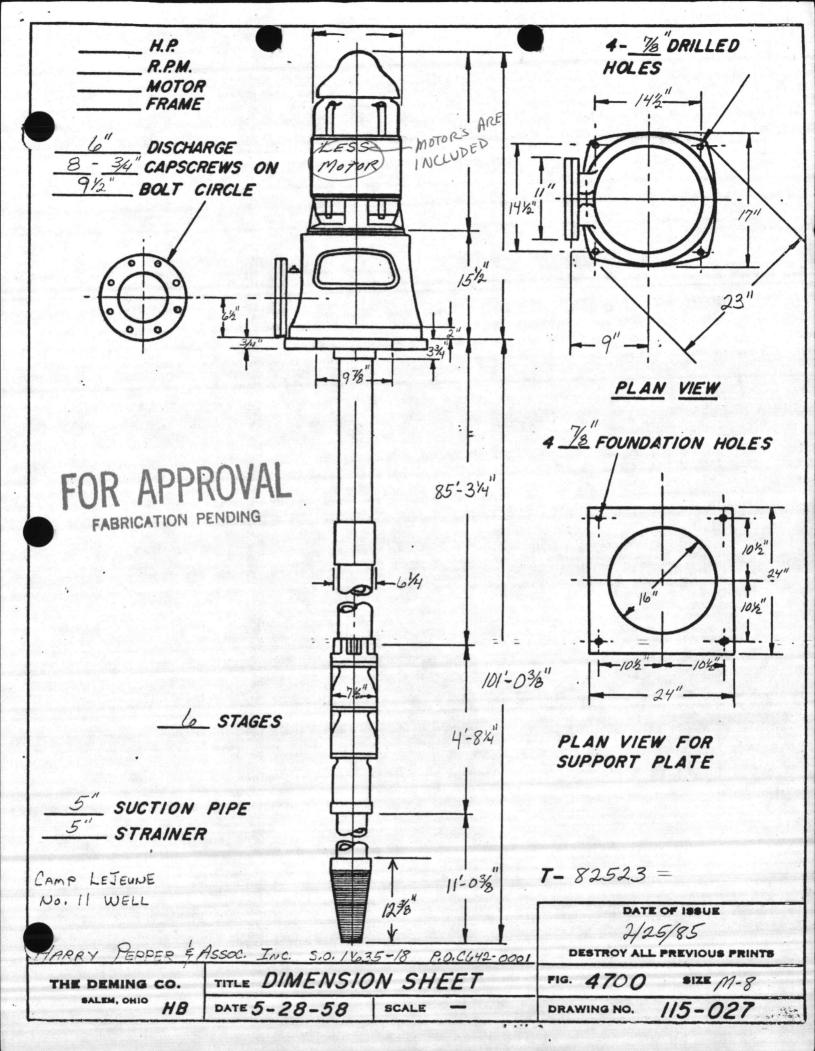


NUMBER	709	BY Am	m/Da	raines	DATE /0 -	26-88
LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	24	45	21	47	4614	10
		54	30	40	146	20
		64	40	33	190	30
		70	46	28	216	40
		76	52	22	239	50
1980 - 1981 1980 - 1981						
	All Control of the Co					
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ers pendlent 60 meter less 10.

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FOR APPROVAL

CAMP LEJEUNE NO. 11 WELL DEMING PUMP CO. SALEM , OHIO , U.S.A. 240 HARRY PEPPER & ASSOC, INC. S.D. 1635-18 P.O. C642-0001 CHARACTERISTIC CURVES FIG. 4700 SIZE M 8 STAGES 6 MPELLER 22665 R.P.M. 1770 DESIGNED RATING: G.P.M. 260 **HEAD** 143 OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE 200 GUARANTEED MIN. EFF. 90 AT DESIGN POINT 71% HEAD CAP 160 80 70 120 60 50 80 L40
30 SE CENT BHP 640 480 560 240 320 400 160 DATE 2-21-85 U. S. GALLONS PER MINUTE SERIAL NO. \*\*\*\*

NO. Q23634

IMP. DIA. 5 5/8"

BANGATION PENDING

Hent

	ONTRACTOR'S SUBMITTAL TRANSMITTAL		CONTRACT NO	CONTRACT NO TRANSMI				
W 20		55/3 (HeV. 11	-00)	81-C-1644	182 3-18-86			
				이 맛있습니다. 아이는 아이를 가지 않는데 아이를 내려면 하게 되었다면 하면 하는데				
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tenry von	Uesen	& Assoc	iates, Inc.	MCB, Cp Leje	une, Nor	th Caro	lina	
			CONTRACTOR USE ONL	<b>Y</b>	196	REVI	EWER USE ONLY	
Contractor A		st only one of	the following categories on ea	ach transmittal form, mitted  Deviation/S		A-Appr D-Disaj AN-App RA-Red C-Com	oproved proved as noted reipt acknowledged. ments	
& PARA.	and/or		(Type, size, model no.,	FICATION Mig. name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE	
02734	MINDIV NORFOLK 4-4355/3 (Rev. 11-80)  MINDIV NORFOLK 4-4355/3 (Rev. 11-80)  MINDIV Pepper & Associates, Inc.  MINDIV Pepper & Associates, Inc.  MINDIV Von Oesen & Associates, Inc.  CONTRACTOR USE ONLY  **List only one of the following categories on each transmittal form, and indicate which is being submitted  Contractor Approved  PROJ. SPEC. SECT.  A PARA. and/or PROJ. OWA. NO.  PROJ. SPEC. SECT.  STEM IDENTIFICATION  (Type, size, model no., Mig, name, dwg, or brochure number)  O2734  ROTARY DRILLED WATER WELLS  Step Test  WELL #  STEP Test  **TRACTOR'S COMMENTS**  **YOF TRANSMITTAL AND SUBMITTALS TO ROICC**  CONTRACTOR REPRESENT  A SUBMITTAL'S APPROVED TO OSSEN & ASSOCIATION.  Submittals are returned with action indicated. Approval of an item does not include approval of any tractor calls attention to and supports the deviation.  Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ON transmittal form.  EWER'S COMMENTS  CONTRACTOR'S approval appears to be approprise.							
		Step Te	it.		B1-C-1644  PROJECT TITLE AND LOCATION  Holcomb Blvd Water Treatment Plan  MCB, Cp Lejeune, North Carolina  REVIEWER USE  "ACTION CO A-Approved D-Disapproved as In RA-Receipt acknow C-Comments R-Resubmit  Re, dwg. or  WELL # 11  7 A JRB  PONTRACTOR REPRESENTATIVE IS A SALUED  TO SOC. The  In REVIEWER USE ONLY Section and in comments below on ON	JRB		
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							1997	
JNTRACTOR'S COM	WMENIS							
					<b>~</b>			
DPY OF TRANSMIT	TAL AND SUB	MITTALS TO RO	ICC	CONTRACTOR REPRESENTAT	IVE (Signature)	1	*************************************	
TE COPY TO	ROIC			Phil Reese C	this	Vous	2	
ATE RECEIVED BY	REVIEWER		FROM (Reviewer)			1		
3/21/8	16		Henry von Oesen	& Assoc. Inc.				
Submittals a tractor calls	are returned attention t	d with action in to and suppor	edicated. Approval of an item do	pes not include approval of any dev	viation from th	e contract rec	uirements unless the o	
Submittals a transmittal	are forward	ed to LANTDI	V with A-E recommendations in	dicated in REVIEWER USE ONLY	Section and in	n comments b	elow on ONE COPY of	
VIEWER'S COMME	NTS							
	Cont	ractor'	s approval appear	stto be appropriate	a.			
OPIES TO		The second treat	DATE	SIGNATURE	and Newsterland			
ROICC (2) LANTDIV (1) A-E (1)			A/2/96	an he	S		2	

Well # 11 Step Test 3-17-86

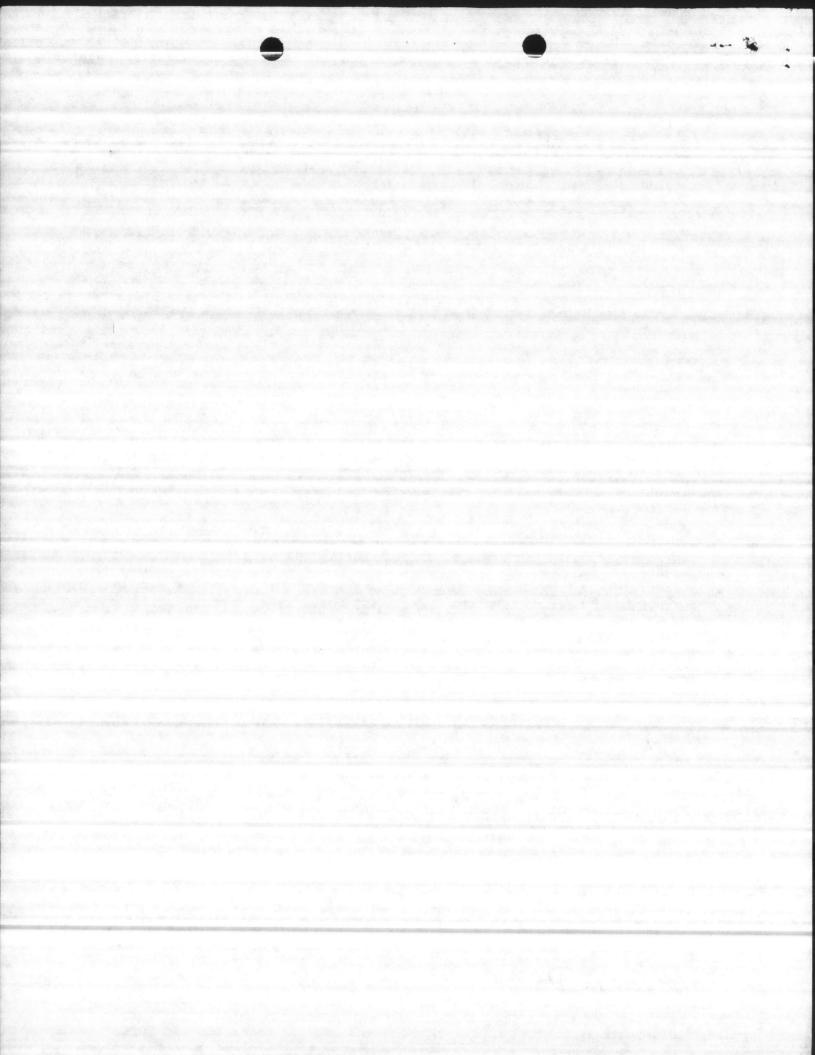
2:15       12'7"       33'5"       100GPM         2:30       34'7"       "         2:45       35'8"       "         3:00       35'10"       "         3:30       35'4"       "         4:00       36'4"       "         4:30       36'7"       "         5:00       36'7"       "         5:15       44'5"       150GPM         5:30       45'1"       "         5:45       45'2"       "         6:00       45'9"       "         6:30       46'2"       "         7:00       46'2"       "         8:00       46'4"       "         8:15       54'4"       200GPM         9:30       54'11"       "         9:45       55'3"       "         10:00       55'9"       "         10:30       56'6"       "         11:30       56'6"       "         12:15       62'11"       250GPM         12:30       63'10"       "         12:45       64'8"       "				
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6:00	5:30		45'1"	하나 있는데 이번에 되면 얼마를 잃었다면 하다 때 그리고 아니다.
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12:45	12:30		63'10"	
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1:00	1:00		64'10"	n H
1:30 64'10" "	1:30			
2:00 64'10" "	2:00		아이지 않는 아이는 이 아이에게 가는 어떻게 하는 사람이 아이를 내려가 되었다면 하는데 하는데 하는데 하는데 하는데 없다.	
2:30 64'10" "				TI.
3:00 64'10" "	3:00		2018년 - 1일	

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

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Authorized Reviewer DATE

Signature CQC Rep. That Leve DATE DATE



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ANTDIV NORFOLK 4-4355/3 (Rev. 11-80)  81-C-1644  PROJECT TITLE AND LOCATION  Henry Pepper & Associates, Inc.  Henry Von Oesen & Associates, Inc.  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			UBMITTAL TRANSMITTAL	CONTRACT NO	TRANSMI	ITTAL NO	DATE	
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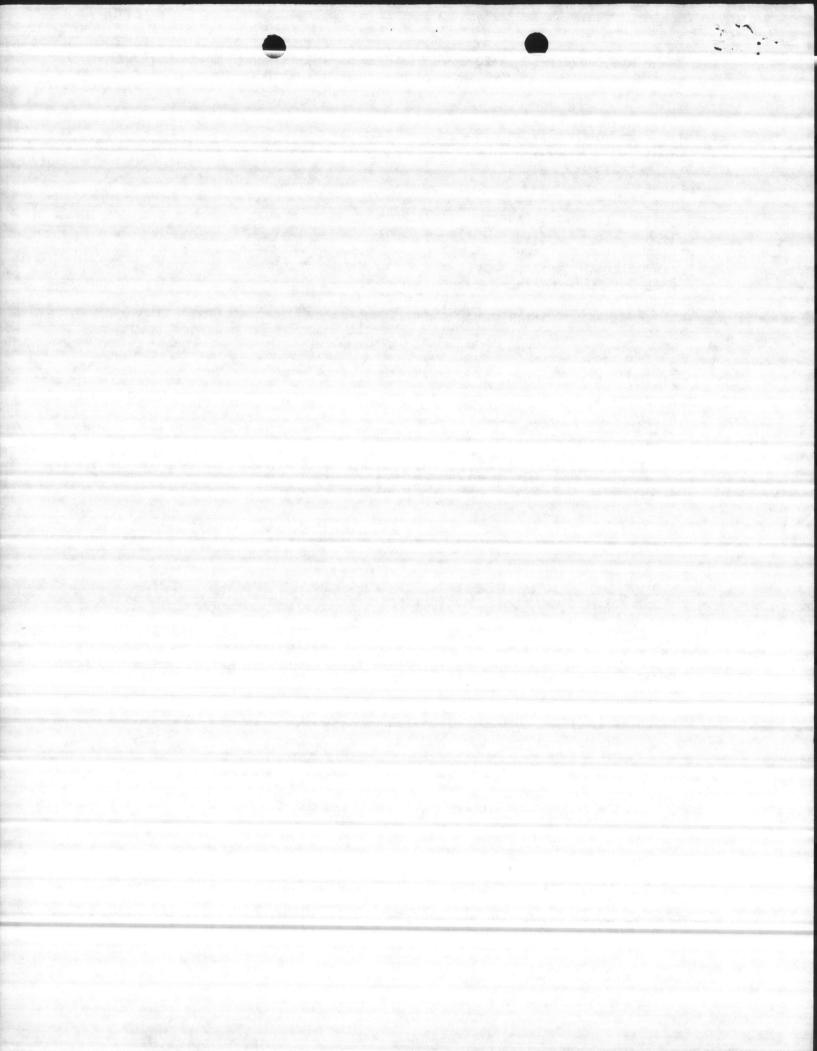
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is hereby certified that the (material) (equipment) shown and tarked in this submittal, shop drawings, catalog cut (s), etc., and approved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings 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 ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511 APPROVED APPROVED AS NOTED\_ SUBJECT TO THE REQUIREMENTS OF NO. N62470-81-C-164L DIMENSIONS & WEIGHTS, COORDINATION OF FOR OFFICER IN CHARGE OF CONSTRUCTION

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то			Holcomb Blv	l Water T	reatmen	t Plant
Henry Von Oese	n & Associates, Inc.		MCB, Cp Lejo	tune, Nor	th Caro	lina
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## R. L. MAGETTE COMPANY

Item # 1

WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

Ridewater Virginia and Eastern North Carolina L. W. W.

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

Smithfield, Virginia 23430

WELL #11.

1/2 PIPE FOR DRAWDOWN TA 24" HOLE CEMENT GROUT 18" PIT CASING GRAVEL ENVELOPE MAMMOD BUIRSENION PRILLED HOL. 10" GALV. WELL CASIN 10" STAINLESS STEEL SCREE! -UNDERREAM TO 10 STAINLESS STEEL SCRI 10" STAINLESS STEEL

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NAVAL	FACILITIES		2000	COMMAND	
	NORFOLK,	VIRGINIA	235	11	

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 DEVIATION --- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER MONISON DATEJUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

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R. L. MAGETTE COMPANY

Item #1

WATER SUPPLY CONTRACTORS DOMESTIC : INDUSTRIAL : MUNICIPAL

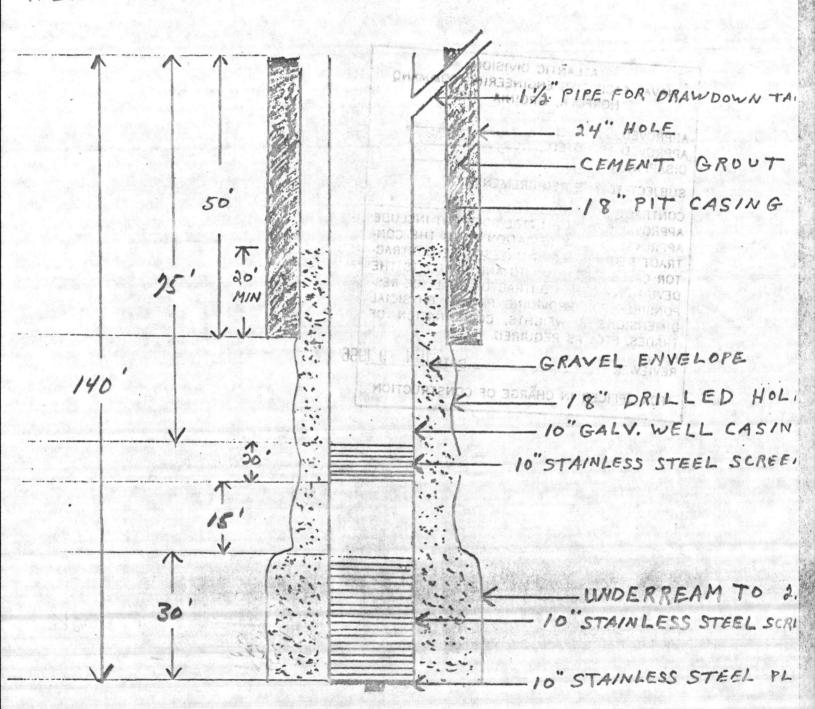
Wells, Pumps and Community Water Systems

Tidewater Virginia and Eastern North Caroling 1: 18 1

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

WELL #11.

Smithfield, Virginia 23430



	NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511
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marked in approved   N62470-8 and Speci	by certified that the (material) (equipment) shown and this submittal, shop drawings, catalog cut (s), etc., and proposed to be incorporated into Contract Number 1-C-1644 is in compliance with the Contract Drawings in the allocated space, lifications and can be installed in the allocated space,
and is:	
	Approved for use.
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	Approved for use subject specific deviation.
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ANTDIV NORFOLK 4	SUBMITTAL TRANSMITTAL	CONTRACT NO	TRANSMI	TTAL NO	DATE
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)		81-C-1644	15	1	1-16-86
ROM CONTRACTOR		PROJECT TITLE AND LOCATION			e 77
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enry Von Oese	n & Associates, Inc.	MCB, Cp Lejeur	ne, Nor	th Caro	lina
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Contractor Approved	OICC Appro	oval Deviation/Sub		C-Comi	ments
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02734	ROTARY DRILLED WATER	WELLSWell # 12		A	2/3
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FROM CONTRACTOR		PROJECT TITLE AND LOCATION	4		
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ROTARY DRILLED WATER WELLS -----Well # 11

Recommendation and Data Submittal

Electric Log and Gamma Log

Driller's Log

Water Analysis

Sieve Analysis

Shop Drawings

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02734

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ONE COPY TO ROICC		CONTRACTOR REPRESENTATIVE (Signature)
		Phil Rees Thil Toese
DATE RECEIVED BY REVIEWER	FROM (Reviewer)	то
Submittals are returned with	Henry von Oese action indicated. Approval of an item d supports the deviation.	en & Assoc., Inc.   AROTCC n does not include approval of any deviation from the contract requirements unless the con-
	supports the deviation.	
	LANTDIV with A-E recommendations	s indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the

COPIES TO	DATE	SIGNATURE
ROICC (2) LANTDIV (1)	23	1111 Indo 1111 15
A-E (1)	1/22/86	" Chalomma of

AFARA 200 DV C TO D C T S/ W - The Property Common Street Common Com

23 JAN 1986

15 03



#### ATLANTIC DIVISION

HARRY PEPPER MAYAIS SOUTE THE BEEFING COMMAND

NORFOLK VIRGINIA 23511

ENGINEERING CONTRACTORS

APPROVED AS NOTED. DISAPPROVED

APPROVED V

REVIEWER C

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 PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF

TRADES, ETC., AS REQUIRED.

FOR OFFICER IN CHARGE OF CONSTRUCTION

January 16, 1986

Henry Von Oesen 611 Princess Street Wilmington, NC 28402

RE: N62470-81-C-1644

Expansion of Holcomb Blvd Water Treatment Plant Camp Lejeune, NC 28542

Well # 11

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'. Water samples were taken at the 92' and 135' 1 evel.

We recommend a line of .030 slot stainless steel screen set at the 105' - 145' level for a total of 40 VF of screen. The gravel pack recommedned 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 rpoceed with developing a permanent well at this site.

Very truly yours, HARRY PEPPER & ASSOCIATES. INC.

Reese CQC Officer

**Enclosures** 

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.

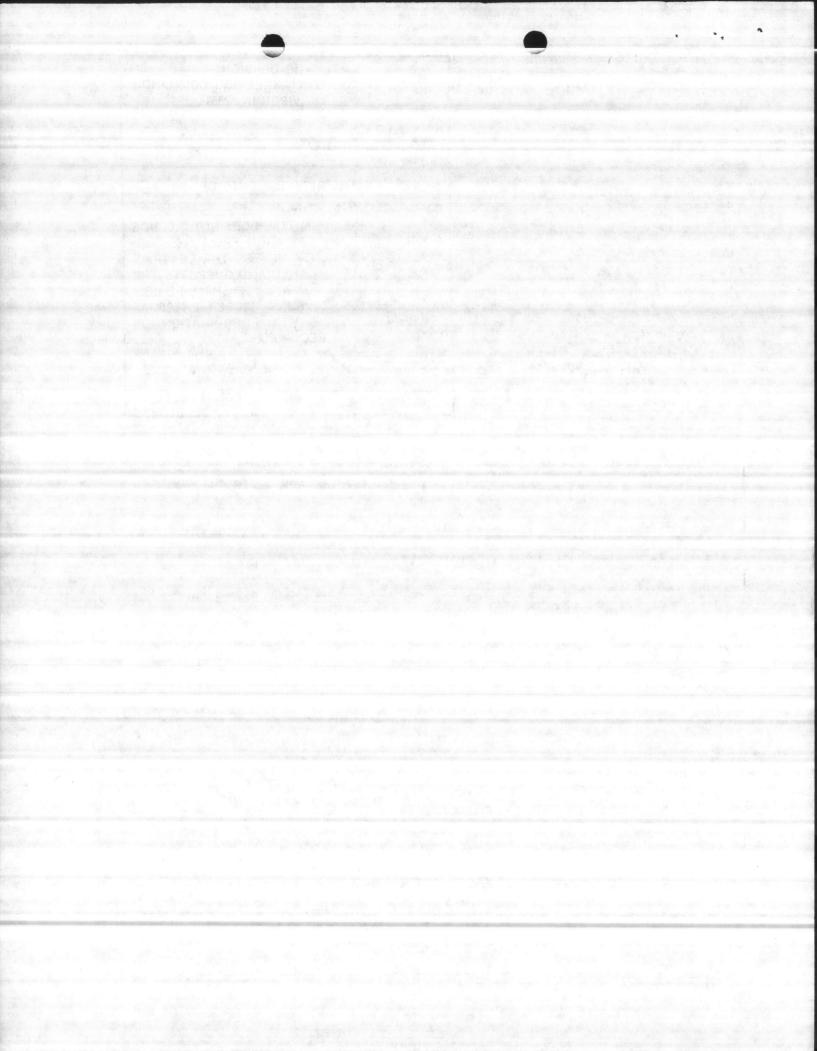
Approved for use subject to Government approval of

specific deviation.

Authorized Reviewer

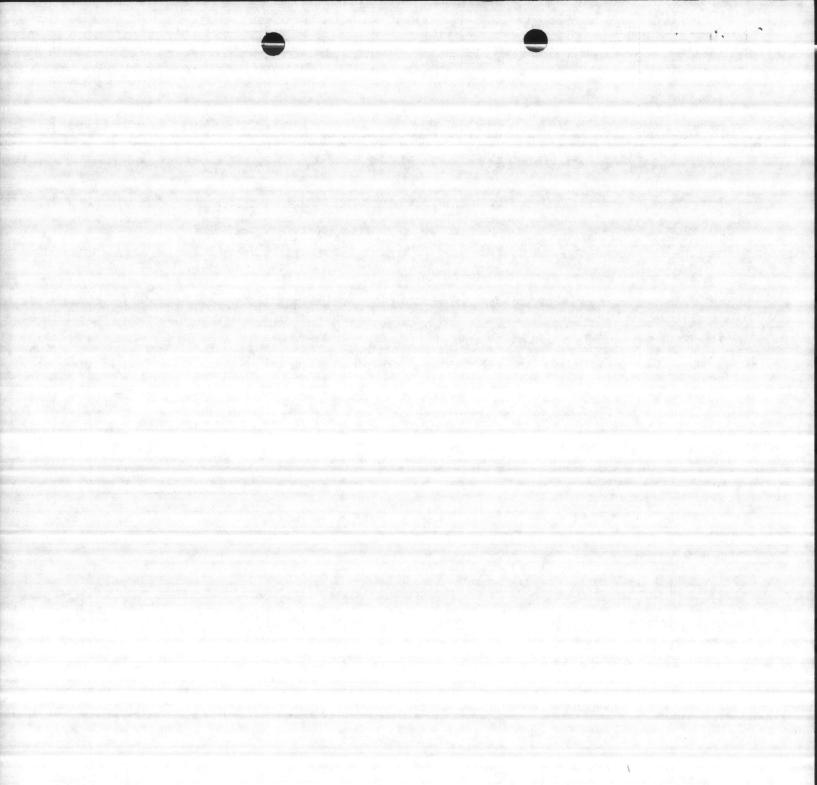
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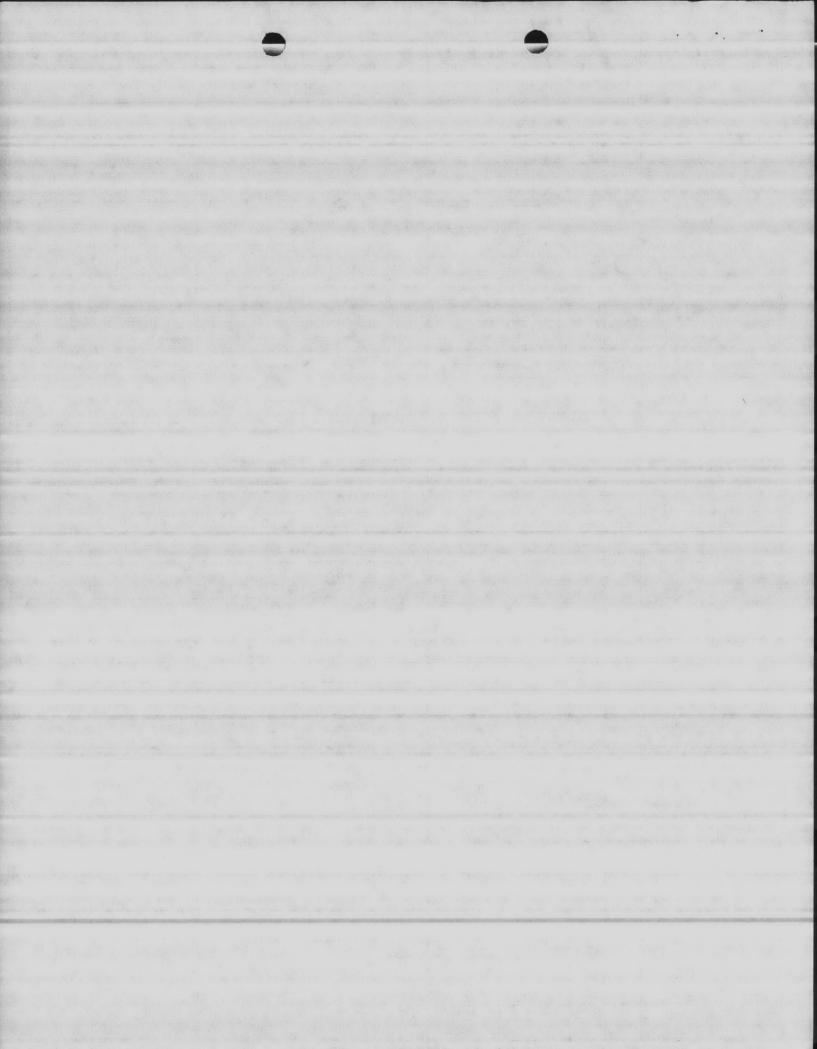
Signature CQC Rep.



#### DEPTH OF SAMPLE

1	- 10 FT	TOPSOIL WHITE SANE AND CLAY
10	- 20 FT	GRAY CLAY
20	- 35 FT	FINE SAND
3 5	- 40 FT	GRAY CLAY
40	- 95 FT	GRAY CLAY AND LIMESTONE
95	- 150 FT	LIMESTONE
150	- 200 FT	GRAY CLAY, GREEN CLAY AND LIMESTONE
2 00	- 250 FT	GREEN CLAY AND FINE SAND





Thanks in Company

## Consulting . ad Hudgheat Chamists

Item# 4

ESTABLISHED 1903

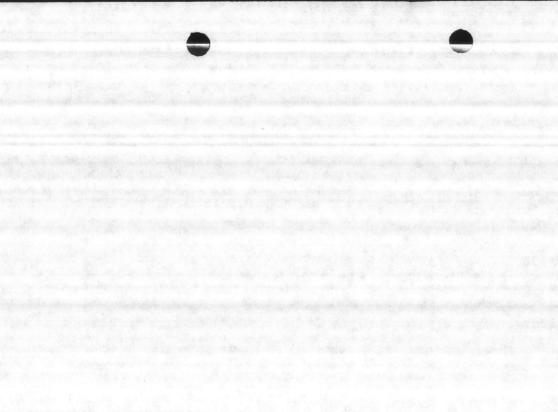
Main Office 1711 Castle Street P.O. Box 629 Wilmington, N.C. 28402

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

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

DATE COLLECTED: 9-13-85
DATE RECEIVED: 9-13-85
COLLECTED BY: CUSTOMER
LAB ID# EW 9531

SAMPLE DESCRIPTION:	WELL #11		
		82'-92'	129'-135'
TESTS/UNITS		RESULTS	RESULTS
DISSOLVED OXYGEN	(MG/L)	6	6
TEMPERATURE		19.5°C	19.5°C
pH		8.0	8.0
CARBON DIOXIDE	(PPM)	0	0
SULFIDES	(PPM)	.6	4.8
CHLORINE DEMAND	(PPM)	. 4	.2
COLOR	(APHA)	110	50
TURBIDITY	(NTU)	66	24
TOTAL ALKALINITY	(PPM)	181	164
HYDROXIDE	(PPM)	0	0
BICARBONATE	(PPM)	164	152
CARBONATE	(PPM)	17	12
TOTAL HARDNESS	(PPM)	154	88
NON- CARBONATE	(PPM)	0	0
CARBONATE	(PPM)	154	88
TOTAL DISSOLVED SOLIDS	(PPM)	520	210
CONTINUED			



### Consulting and Analytical Chonists

PAGE -2-WELL #11

ESTABLISHED 1903

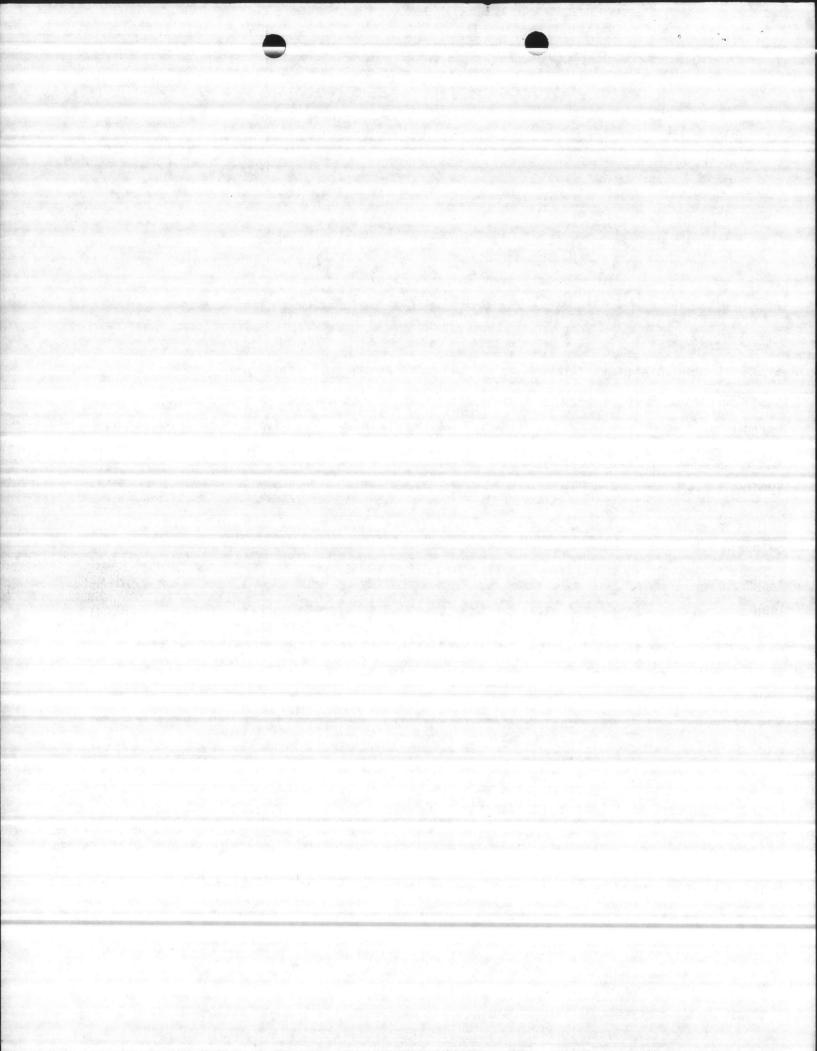
Main Office 111 Castle Street r.O. Box 629 Wilmington, N.C. 28402

HICHARD SPIVEY President 919 762 7082 - 919 762 8956 1WX 510 937 0280

TESTS/UNITS		82'-92' RESULTS	129'-135' RESULTS
SPECIFIC CONDUCTANCE	(UMHOS)	325	205
SULFATES	(PPM)	84.4	12.3
CALCIUM	(PPM)	50	38
MAGNESIUM	(PPM)	3.3	1.0
SODIUM	(PPM)	12.0	12.8
POTASSIUM	(PPM)	2.0	1.2
CHLORIDE	(PPM)	11.7	9.4
NITRATE NITROGEN	(PPM)	<.2	<.2
IRON	(PPM)	1.3	.20
MANGANESE	(PPM)	.03	<.02
SILICON	(PPM)	2.1	3.6
FLOURIDE	(PPM)	.94	.96

Dolly Brown

TOTAL CHARGES: \$360.00



H55C

HOWARD SMITH SCREEN COMPANY

A Halliburton Company
P.O. Box 666 • Houston, Texas 77001
713-859-5771 • Telex: 77-4667

COMPANY...R.L.MAGETTE COMPANY WELL.... 11

DEPTH... 105-145

FIELD...-

STATE....VA

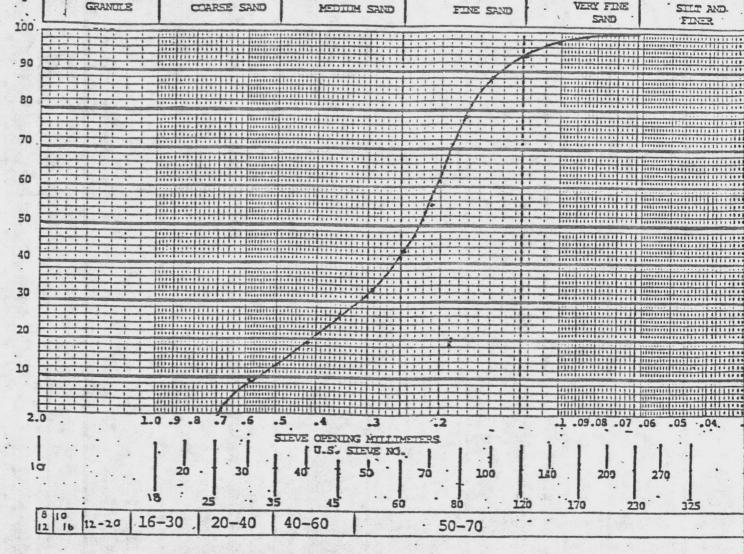
ONTACT...LEPHONE.MARKS...WATER WELL
GOMMENDATIONS:
AVEL SIZE
REEN SIZE

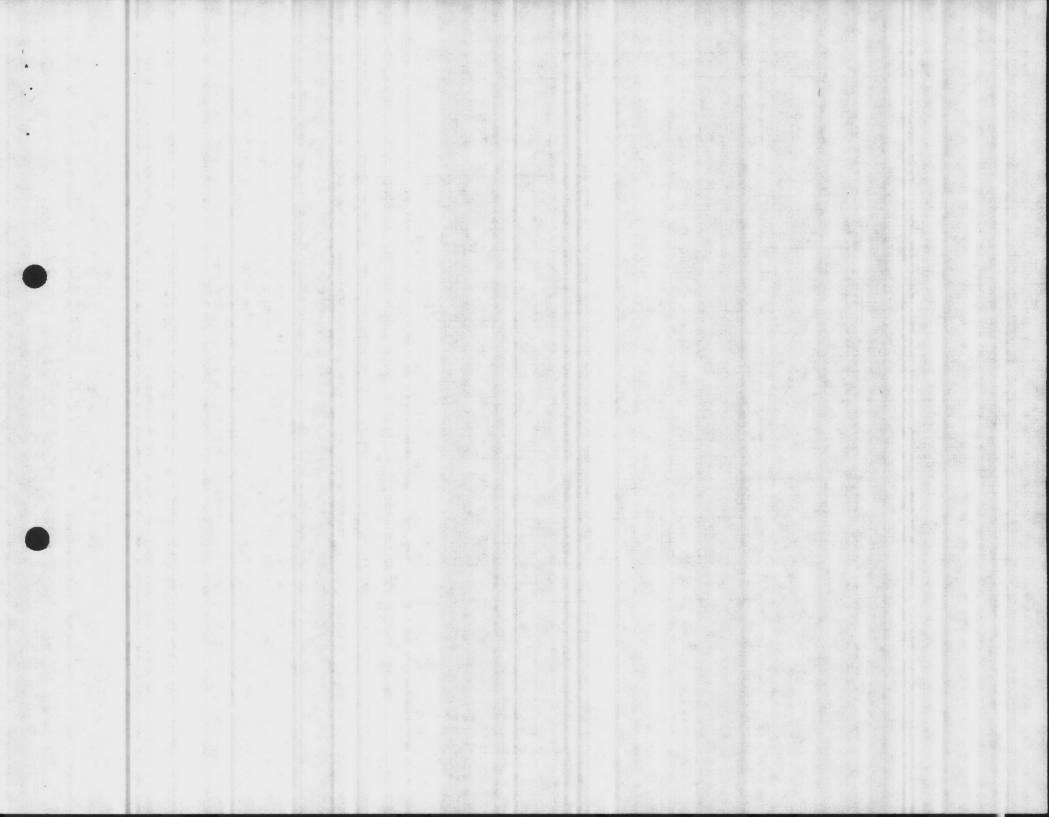
HES E JACKSON

-22-85

SIEVE ANALYSIS REPORT

12:					
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45	.0139	0.351	1.7	6.6	26.2
50	.0117	0.297	1.7	8.3	32.9
60	.0098	0.250	2.7	11.0	43.7
70	.0083	0.210	3.0	14.0	55.6
80	.0070	0.177	5.7	19.7	78.2
100	.0059	0.149	2.5	22.2	88.1
120	.0049	0.124	1.7	23.9	94.8
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170	.0035	0.088	0.4	25.0	99.2
2	.0029	0.074	0.1	25.1	99.6
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R. Z. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS DOMESTIC : INDUSTRIAL : MUNICIPAL

Wells, Pumps and Community Water Systems

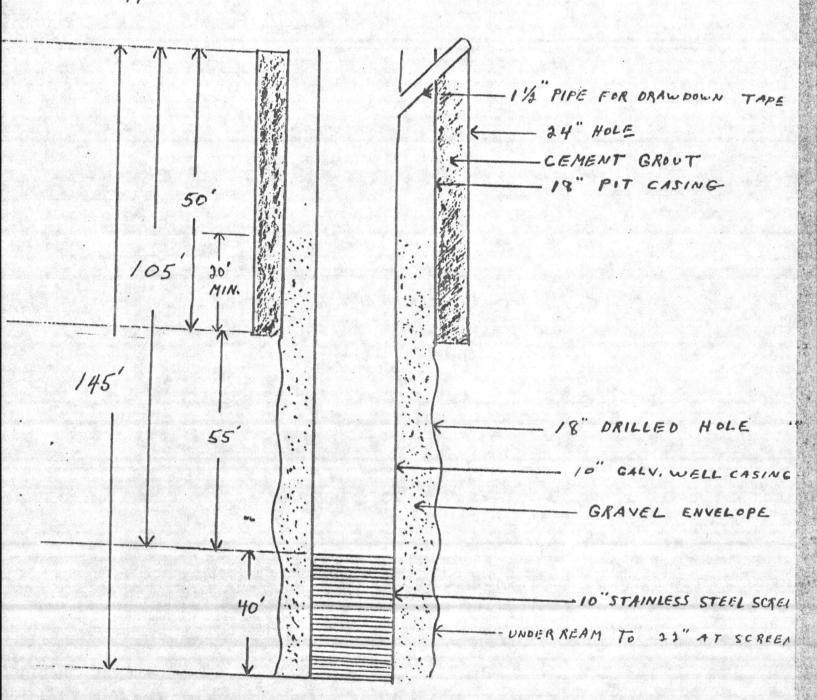
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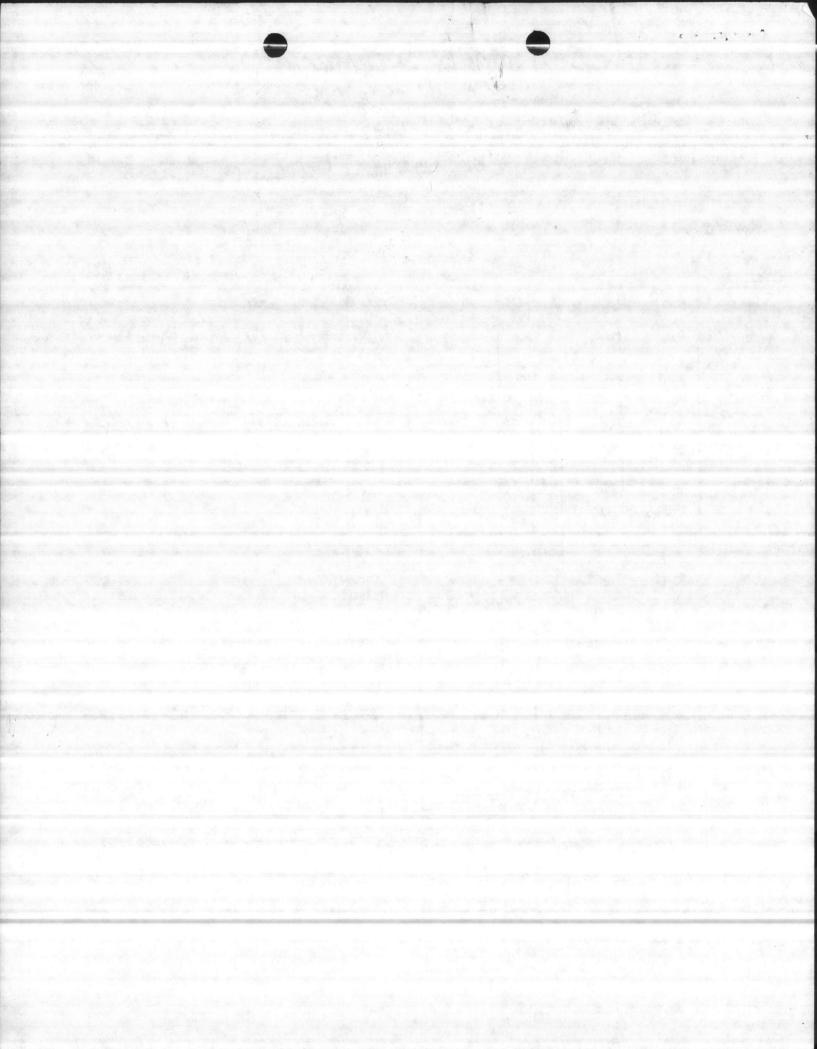
Tidewater Virginia and Eastern North Carolina .....

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

Smithfield, Virginia 23430

WELL # 11



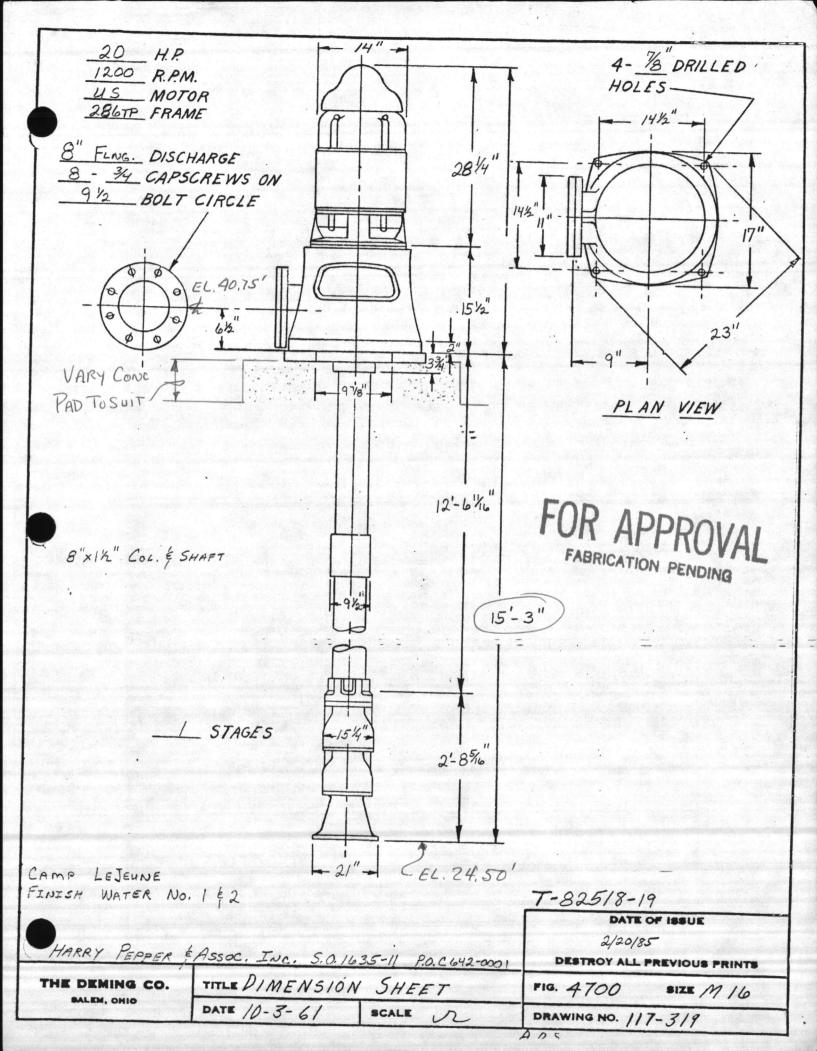


## FILE FOLDER

## **DESCRIPTION ON TAB:**

Well #710

Outside/inside of actual folder did not contain hand written information
Outside/inside of actual folder did contain hand
written information *Scanned as next image

Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08 

FOR APPROVAL

CAMP LEJEUNE NO. 12 WELL DEMING PUMP CO. SALEM , OHIO , U.S.A. 240 HARRY PEPPER & ASSOC. INC. S.O. 1635-19 P.O. C642-0001 CHARACTERISTIC CURVES FIG. 4700 SIZE M 8 STAGES 6 MPELLER 22665 DESIGNED RATING: G.P.M. 260 HEAD 145 R.P.M. 1770 OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE 200 90 GUARANTEED MIN. EFF. AT DESIGN POINT 71x -HEAD 160 80 70 120 60 50 80 160 240 320 400 480 560 640 SERIAL\_NO. \*\*\*\* U. S. GALLONS PER MINUTE DATE 2-21-85

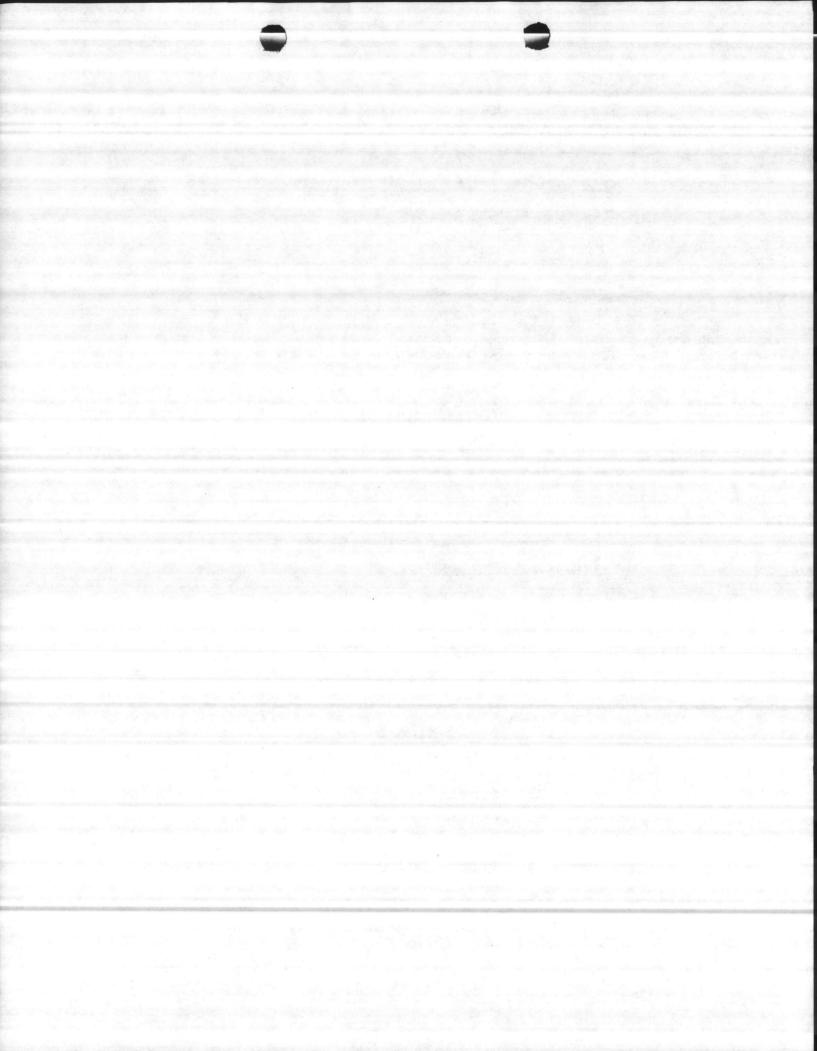
NO. Q23633

IM. DIA. 5 5/8"

INVESTIGATION PENDING

DATE 7-25-00,
PWSID 04-67-041

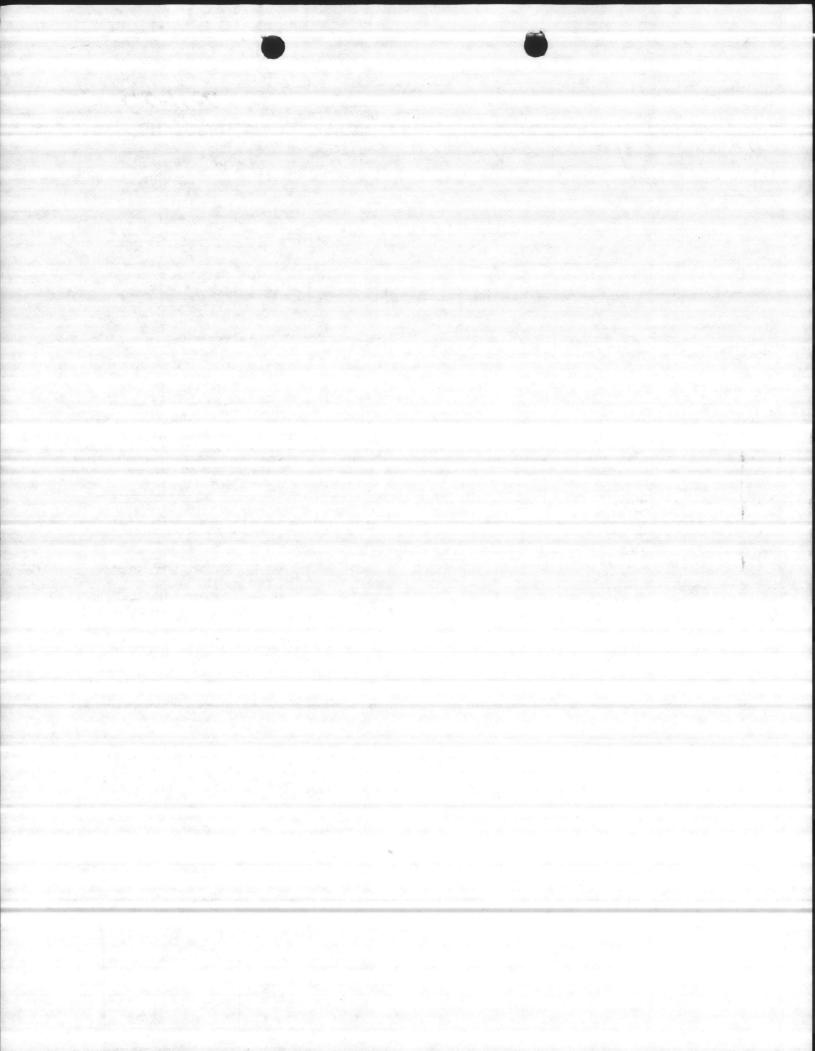
WELL # HP 7/6
WELL NAME HADNOT POINT ADD
BLDG. # 710
CODE
AVAILABILITY P.
LOCATION D-LINE ROAD.
LATITUDE34.7039/
LONGITUDE77.31042
WELL DIAMETER
WELL DEPTH/40'
SCREEN INTERVAL
YIELD
STATIC LEVEL28'
PUMPING LEVEL53'
PUMP TYPE VERTURAL TURBINE
MOTOR HP
INTAKE DEPTH86
DESIGN CAPACITY 200
ACTUAL GPMX
SIZE OF CONCRETE SLAB /0×10
HEIGHT OF CASING/8



WELL NUMBER	///	BY ST			DATE 7-	1-97
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
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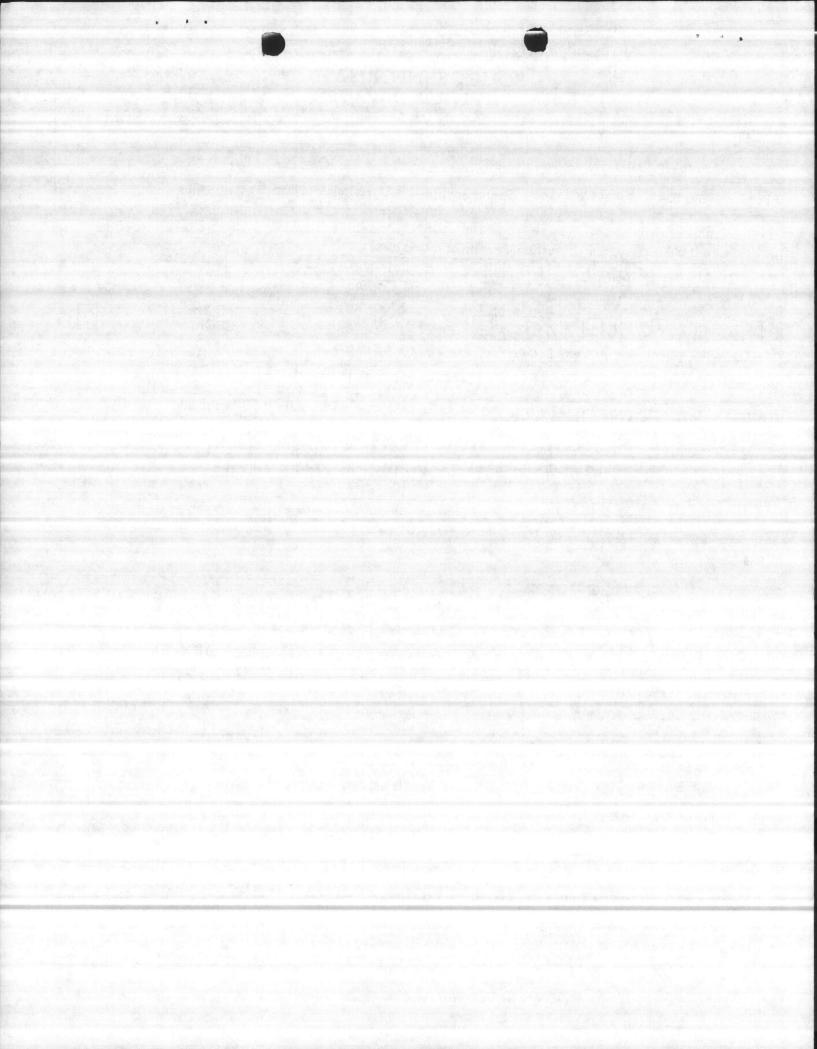
REMARKS

UFACTURER	STAGE	S.N.	Imomax	
			TOTAL HEAD	SIZE
			The second of the second of the	



# SOURCE INFORMATION

, so	URCE INFORMATION GROUND WATER	Date Form Completed  M M D D Y Y  O / 25 9 5
Owner Assigned Well Name (If purchase, name	e of system)	Code G=Ground
TIO HADNOT POIN	7 7/0	W=Purchase/O Y=O w/direct influence Z=W w/direct influence
Tructiase, select 12" M M Y Y Y S	WTR? Direct Influence Date  WTR? N D D Y Y  Coerion of master meter)	Availability  P=Permanent E=Emergency S=Seasonal O=Other
Location of well within the system (If purchase, lo		
D-LINE ROAD	How Determined G	PS Data No. of Sats. Locked on
Latitude (N)  Deg. Min. Sec.  3 442/40  O 7 7 1839  (If purchase, use seller's primary source lat/long)	G=GPS M=Map S=Surveyed	Q# or DOP#
Vulnerable (VOCs) Y	Assessment Date	
ENTRY POINT INFORMATIO	// C-Olouio, I citimeter	Availability  P=Year-round S=Seasonal E=Emergency I=Interim O=Other
Owner Assigned Entry Point Code  Entry Point Name  HP710 MC	D=Ground/non-permanent	
Location:		
Surface water within 200? Y If  Adequate slope? — (Y,N) Flooding? — A  Well House: Free of stored materials? — (Y,N)	(Y,N) Maintenance: (Y,N) Lock	yes, bact. samples collected?(Y,N) ed? $\frac{1}{\sqrt{(Y,N)}}$
Condition of house:	I ADE OF HEEST DECEMENT	지수가 아이들에 비로 보면 하는데 가게 되었다. 그 아이들은 아이들은 아이들은 하는데 하는데 하는데 하는데 하는데 하는데 이렇게 하는데 없는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하
Well: Diameter: 10" Type: SCREEN  Properly vented? (Y,N) Casing depth  Concrete slab adequate? (Y,N) If no, exp	ft. put 'UNK') Well depth: 29	Meter available:
111(11)	Sample can Refore treatment?	(Y,N) After treatment? (Y,N)
Pumps: Capacity: GPM: 300 105 HP:	Pump intake depth: 2	Auxiliary Power? (Y,N
Type pump: VERTICAL TURBII	Height above no	
Storage at well site: Elev:	Hydro:	Ground:
If hydroautomatic, air volume control?(  High service pumps: 1gpm hp	Y,N) Safety valves?(Y,N) Code  2 gpm hp 3 gpm	d?(Y,N) hp Auxiliary Power?(Y,N
Is the water treated at this well? MN If yes, co	If regated elses	where, where? HP-20 FCANT
If other wells are treated here, which ones?	1) Arnit Vent	
If purchase, retreat? N If yes, complete bac	ck of form.	
DEHNR 3803 (Revised 12/93) DISH-Water Secret Secret Revised 12/93	a salah a kepil salah salah kecaman salah	*



WELL NUMBER	710	BY Stee	IDRATN	- Brown	DATE /C	7-6-94
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	30	41	11	45	100	
				40		
		57	27	25	111	
		59	29	20	115	
				4		
						+
						+

REMARKS

D. H. 60 psz

28 PSI AS LOW AS it will 80.

ANUFACTURER	STAGE	S.N.	TOTAL HEAD	CTCD
			TOTAL READ	SIZE
			지생겨의 아래는 내용하고 그 그는 없다.	
	· 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			



WELL NUMBER	710	BY THOM	AS 15Ro	WN.	DATE 9-2	-92
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START
85	29	51	22	45	115	35
		57	28	40	133	45
		63	34	35	162	55
		67	38	30	175	05
		71	42	75	192	10
lest 1	1-7	175	46	20	201.	20
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			200			
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1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
				12		

REMARKS Dead head 67 PSI

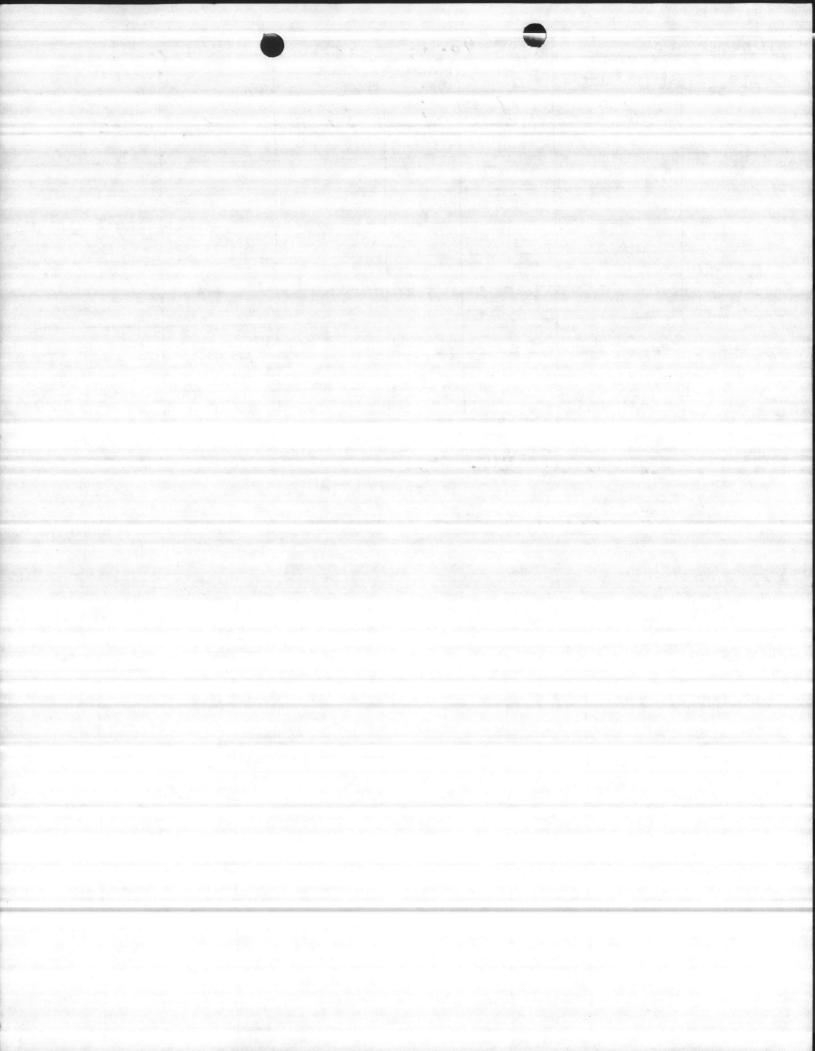
ANUFACTURER	STAGE	S.N.	TOTAL HEAD	CTOR
			TOTAL HEAD	SIZE
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WELL NUMBER AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	22	41	19	37	100.	OS
		H5	23	25	104	15
	1,40° A	50	28	15	111	2.5
		51	29	10	115	30
				5	122	45
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		100				

REMARKS

Dead herd @ 75 PSI Set @ 10 To 15 PSI

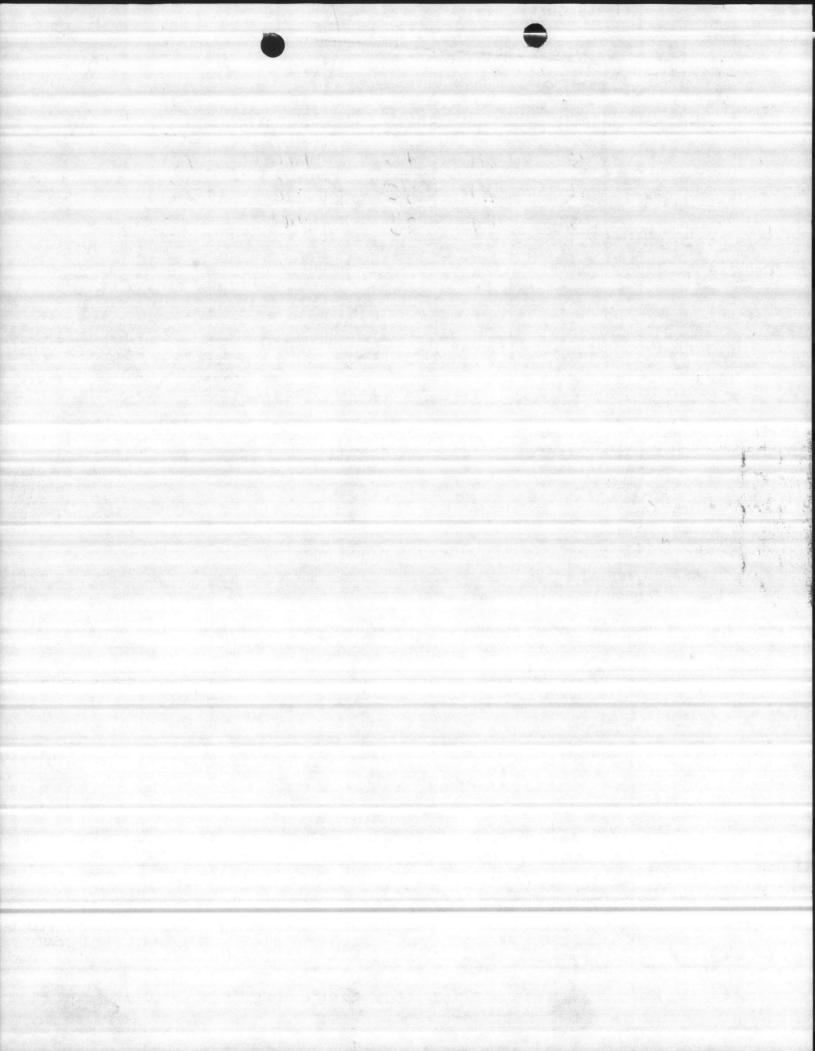
MANUFACTURER	STAGE	S.N.		TOTAL	DEAD	SIZE
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			78-1			
			1			



NUMBER	710		ras/1	wheres	DATE 10-	26-88
LINE	STATIC LEVEL	PUMPTING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	24	33	9	56	115	60
		50	26	46	146	10
		65	41	36	210	20
		23	49	26	242	30

Penthed 66
meter 500)

FACTURER	STAGE	S.N.	TOTAL HEAD	SIZE	
	Later State				
	4				0/2
			part. 118		
			and the second second		



ORFOLK, VIRGINIA 23511

ENGINEERING CONTRACTORS

APPROVED AS NOTED DISAPPROVED '

SUBJECT TO THE REQUIREMENTS OF

CONTRACT NO. NCJ470-81-C-1C4\*
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 \_\_\_\_\_\_ DATEN 2 1 1985

FOR OFFICER IN CHARGE OF CONSTRUCTION

January 16,1986

Henry Von Oesen 611 Princess Street Wilmington, NC 28402

RE: N62470-81-C-1644
Expansion of Holcomb Blvd
Water Treatment Plant
Camp Lejeune, NC 28542
Well # 12

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'. Water samples were taken at the 95' level.

We recommend a line of .030 slot stainless steel screen set at the 84' to 124' level for a total of 40 VF of screen. The gravel pack recommednded 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.

Phil Reese CQC Officer

Enclosures

"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.

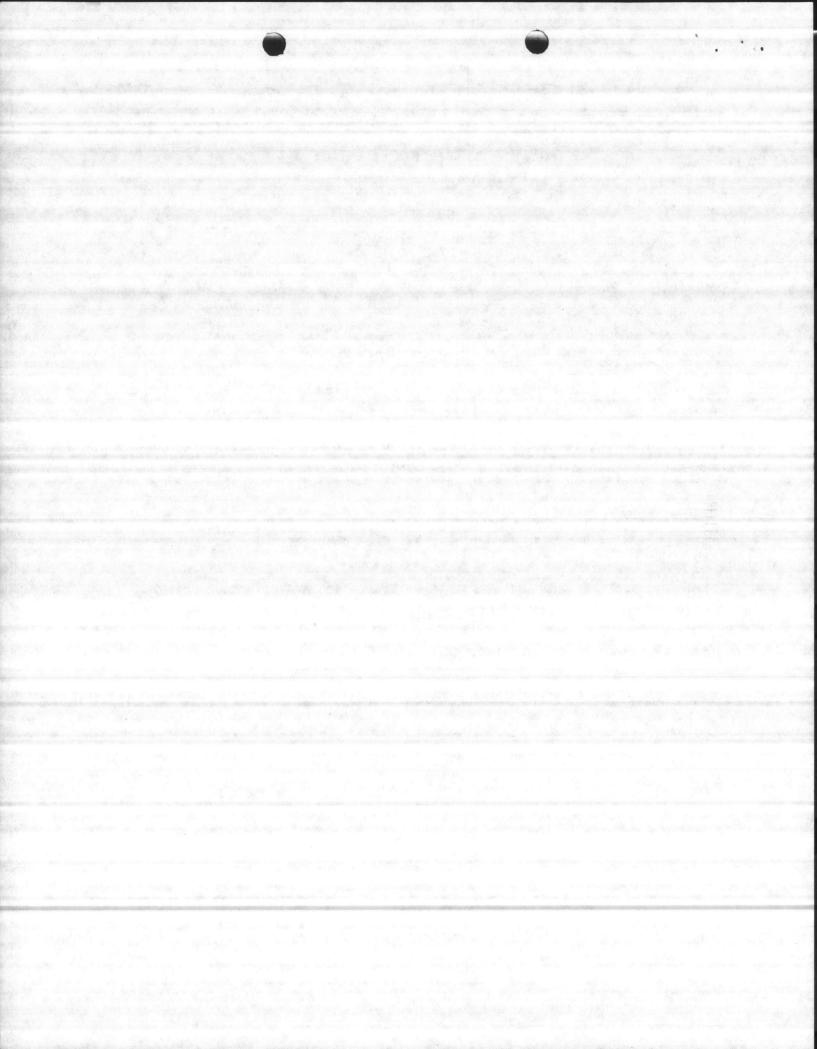
Approved for use subject to Government approval of specific deviation.

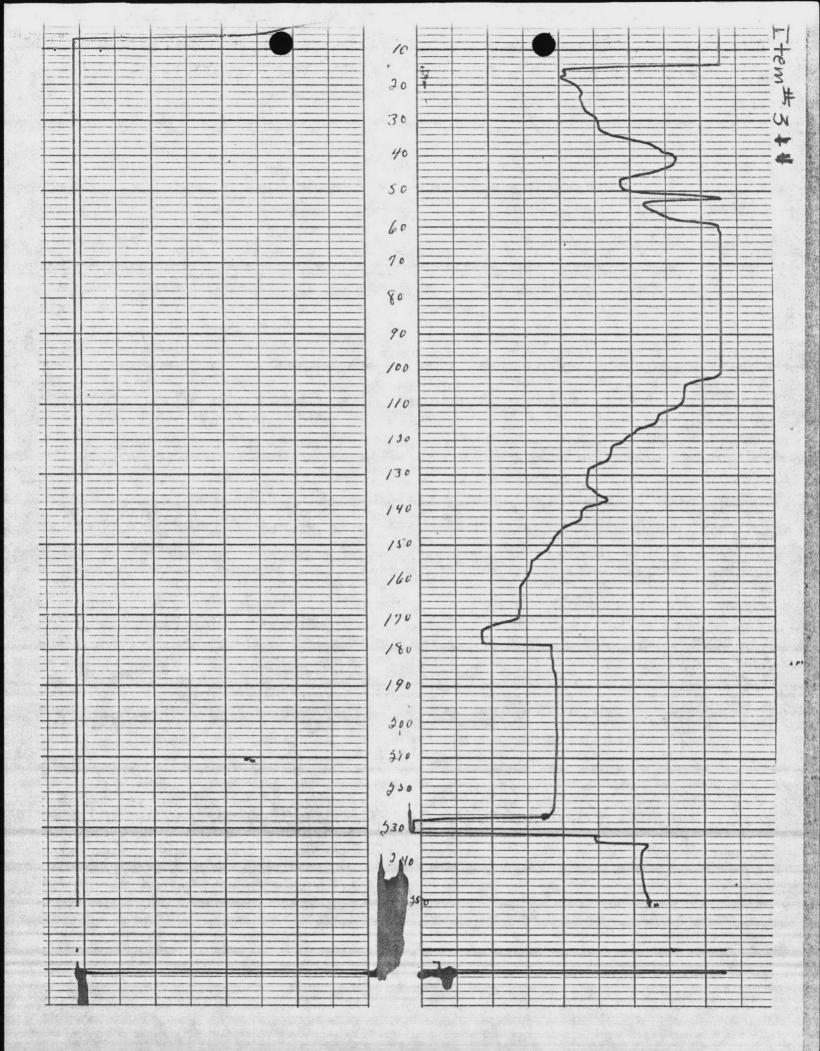
Authorized Reviewer

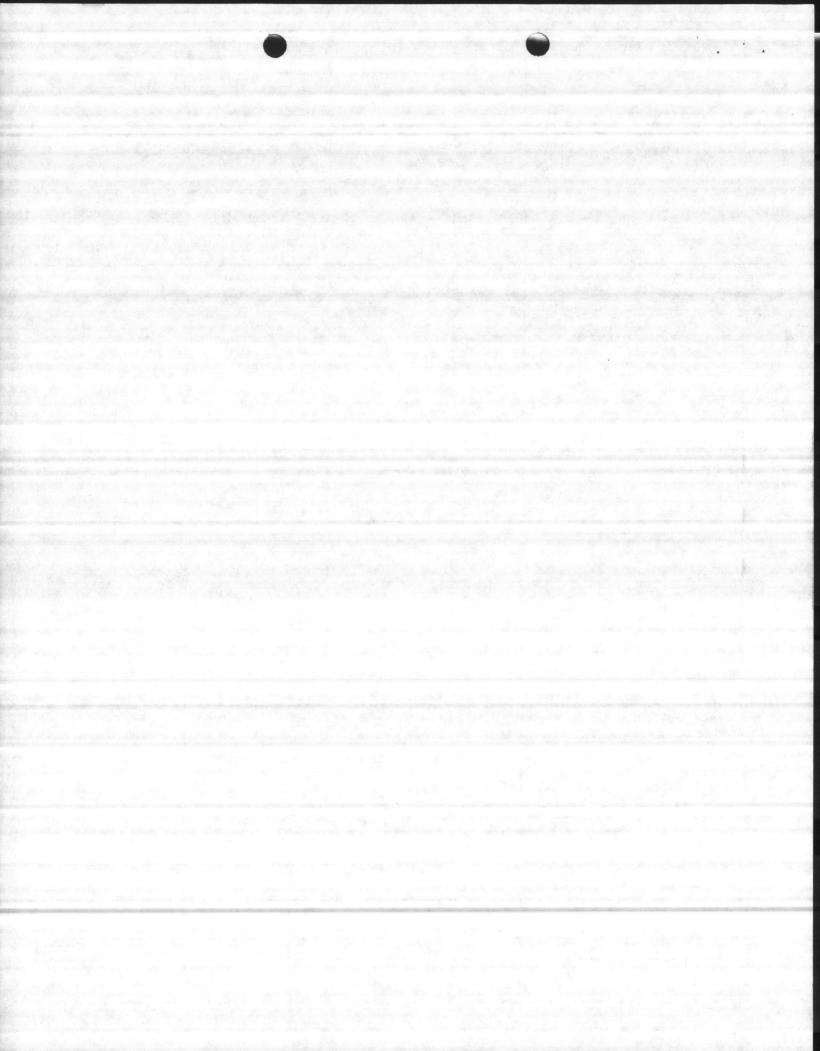
DATE

Signature CQC Rep.

DATE 16







#### DRILLERS LOG CAMP LEJEUNE WELL #12

#### DEPTH OF SAMPLE

0 - 5 FT.

5 - 35 FT.

35 - 55 FT.

55 - 60 FT.

60 - 120 FT. 120 - 185 FT.

185 - 250 FT.

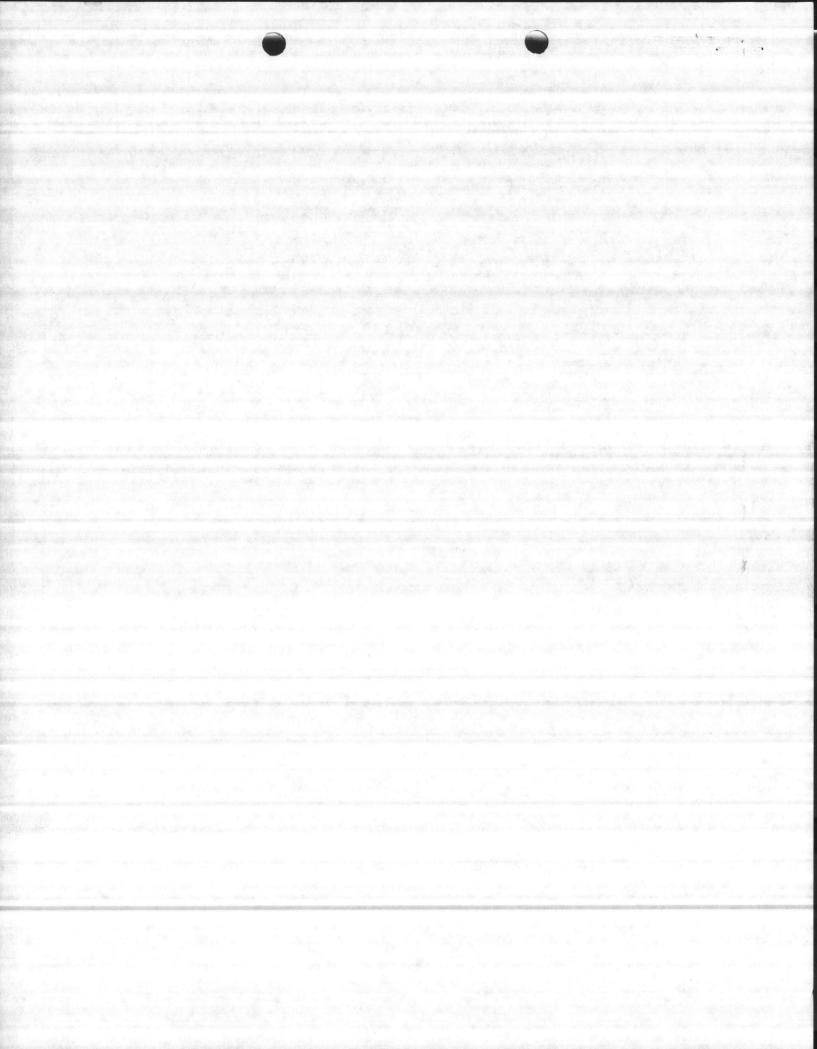
GRAY CLAY AND FINE STRATA SAND FINE STRATA SAND GREEN CLAY AND GRAY CLAY

LIMESTONE AND STREAKS OF GREEN CLAY

GREEN CLAY , WHITE CLAY AND LIMESTONE

GREEN CLAY AND FINE SAND

TOPSOIL AND WHITE SAND



# LAW ES COMPANY

Consulting . not Thualytical Chamists

ESTABLISHED 1903

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

REPORT DATE: 11-04-85

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

Item#4

MAJETTE WELL & PUMP CO

P. O. BOX 908

SMITHFIELD, VA 23430

ATTN: BUD KELLOG

DATE COLLECTED: DATE RECEIVED: COLLECTED BY:

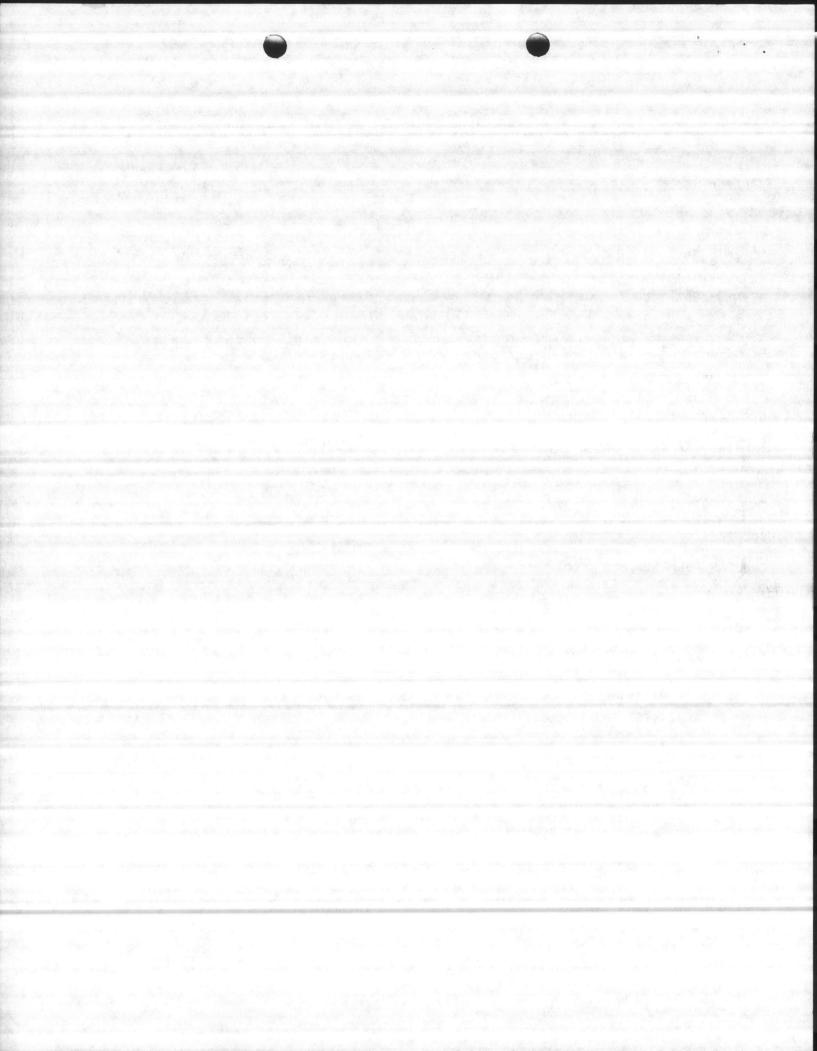
9-20-85 9-20-85

LAB ID#

CUSTOMER EW 9583

SAMPLE DESCRIPTION: 85-95 WELL #12

TESTS/UNITS		RESULTS
DISSOLVED OXYGEN	(MG/L)	6
TEMPERATURE		- 19.5
рН		8.0
CARBON DIOXIDE	(PPM)	0
SULFIDES .	(PPM)	
CHLORINE DEMAND	(PPM)	1.2
COLOR	(APHA)	65
TURBIDITY	(NTU)	180
TOTAL ALKALINITY	(PPM)	268
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	22
CARBONATE	(PPM)	246
TOTAL HARDNESS	(PPM)	180
NON- CARBONATE	(PPM)	0
CARBONATE	(PPM)	180
TOTAL DISSOLVED SOLIDS	(PPM)	318
CONTINUED		



## LAM & COMPANY

#### Consulting and Analytical Chomists

ESTABLISHED 1903

Main Office 1711 Castle Street r.U. Box 629 Ulmington, N.C. 28402

RICHARU SPINEY President 919 762 7082 - 919 762 8956 1WX 510-937 0280

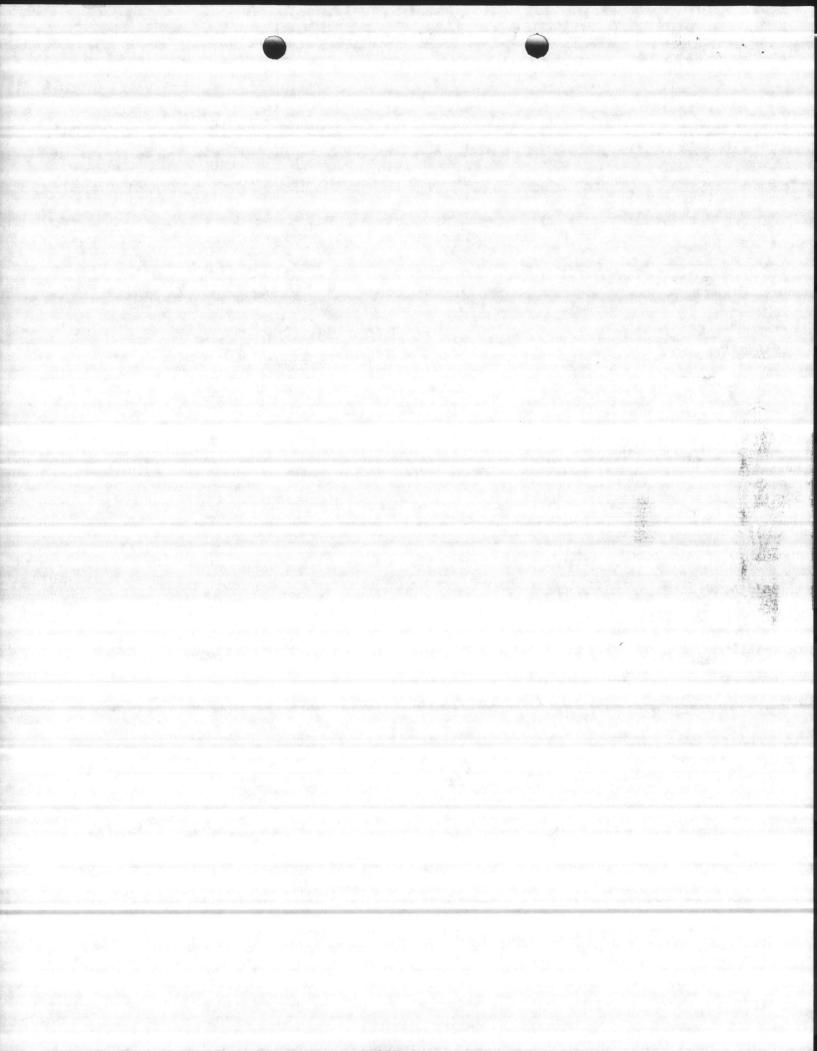
TESTS/UNITS		RESULTS
SPECIFIC CONDUCTANCE	(UMHOS)	425
SULFATES	(PPM)	.16
CALCIUM	(PPM)	74
MAGNESIUM	(PPM)	2.7
SODIUM	(PPM)	12.8
POTASSIUM	(PPM)	.8
CHLORIDE	(PPM)	14
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	.93
MANGANESE	(PPM)	.03
SILICON	(PPM)	6.3
FLOURIDE	(PPM)	<.2

CHEMIST

Colly Bidwar

TOTAL CHARGES:

\$180.00



HSSC HOWARD SMITH SCREEN COMPANY

A Halliburton Company
P.O. Box 666 • Houston, Texas 77001

713-869-5771 • Telex: 77-4667

NTACT...-

EPHONE .-

MARKS ... WATER WELL

COMMENDATIONS:

AVEL SIZE

REEN SIZE\_\_

COMPANY...R.L.MAGETTE COMPANY

WELL....12 DEPTH....80-120

FIELD....

COUNTY...-STATE....VA

. 50-70

SIEVE ANALYSIS REPORT

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## R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS DOMESTIC : INDUSTRIAL : MUNICIPAL

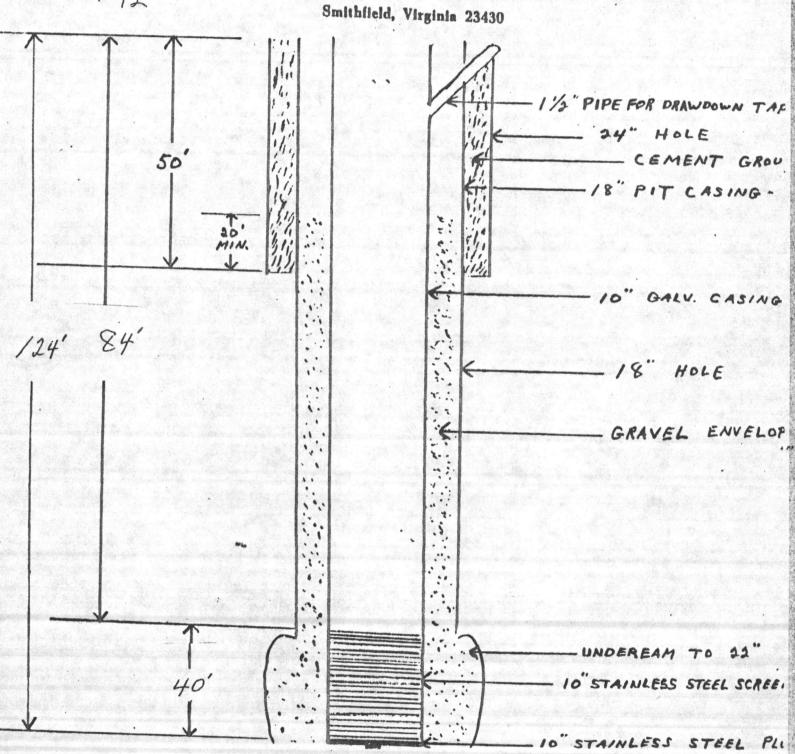
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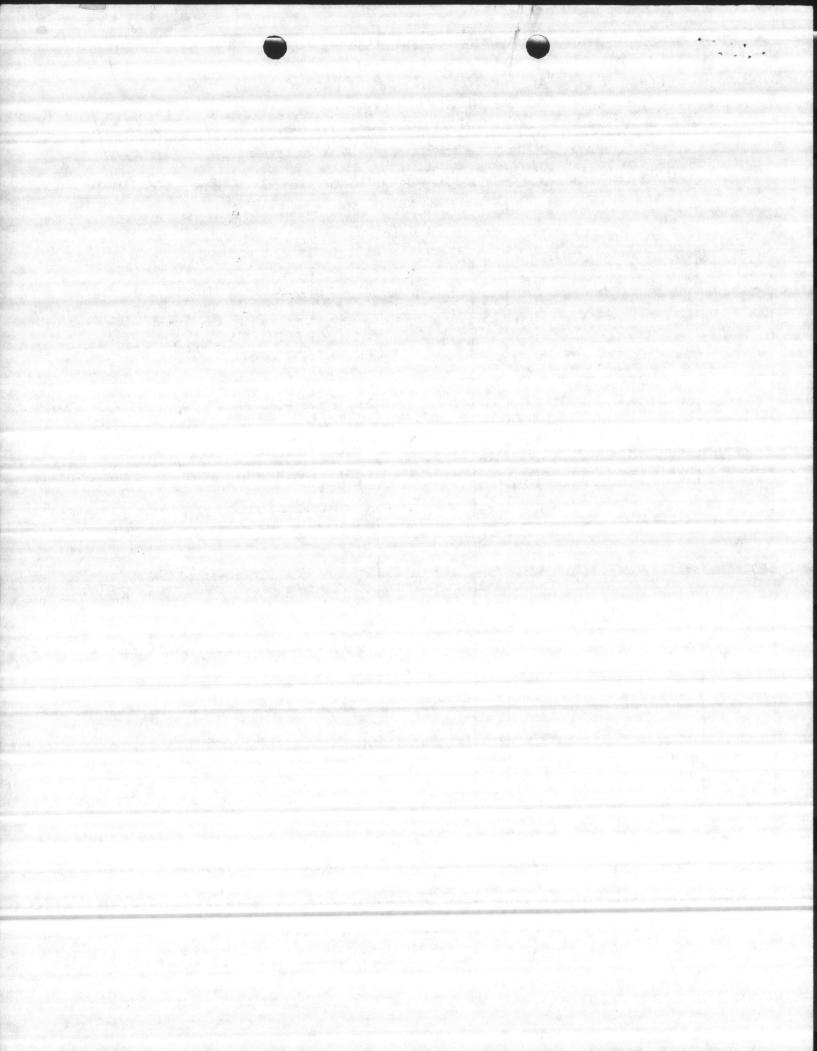
Wells, Pumps and Community Water Systems

ing Midsunity Virginia and Eastern North Carolina 1960

WELL # 12

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





- M. . ..

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	TOWNORFOLKA			CONTRACT NO	1	RANSM	ITTAL NO	DATE
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)			81-6-1644	Control of the Contro	19	1	3-26-86	
	CONTRACTOR			PROJECT TITLE AND LO				
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7			ndicated. Approval of an item of	does not include approval of a	ny deviation	from th	ne contract req	uirements unless the
Z	tractor calls attention							
	Submittals are forward transmittal form.	rded to LANTDI	V with A-E recommendations i	indicated in REVIEWER USE	ONLY Section	on and i	n comments b	elow on ONE COPY of
VIE	WER'S COMMENTS							
				and the state of the second	urra ge			
	Cont	ractor's	approval appear	s to be appropri	ate.			
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R	ES TO OICC (2) ANTDIV (1)		DATE 4/2/86	SIGNATURE	P	TLENGTS.		

CONTRACTOR'S SUBMITTAL TRANSMITTAL

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the state of the s			

Well # 12 Step Test 3-25-86

TIME	STATIC	PUMPING LEVEL	PUMPING RATE
5:15PM	16'9"	36'11"	100GPM
5:30		37'5"	п
5:45		38'	II.
6:00		38'4"	п
6:30		38'9"	
7:00		38'11"	TI.
7:30		38'11"	и
8:00		38'11"	"
8:15		4 4 ' 2"	150GPM
8:30		44'10"	11
8:45		45'5"	n .
9:00		45'11"	11
9:30		46'3"	11
10:00		46'5"	11
10:30		46'5"	10
11:00		46'5"	- 11
11:30		51'5"	200GPM
11:45		5 2"1"	11
12:00		52'10"	11
12:30		5 3"3"	n n
1:00		53'7"	and the second second
1:30		53'11"	n n
2:00		53'11"	u u
2:15		57'10"	250GPM
2:30		58'7"	
2:45		59'2"	п
3:00		59'6"	in .
3:30		59'6"	ii ii
4:00		59'8"	II .
4:30		59'10"	п
5:00		59'10"	11

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED_	X	
APPROVED	AS NOTED	)
DISAPPROV	ED	

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 / Johns DATE

APR 02 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

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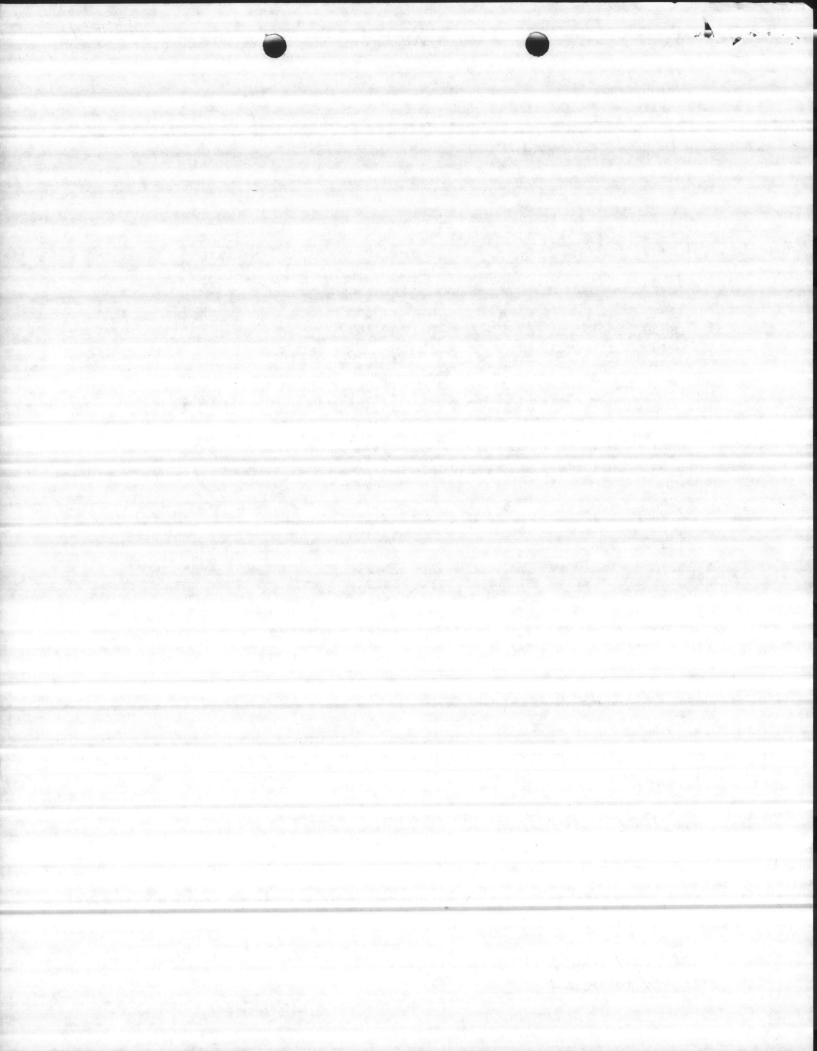
Submitted for Government approval.

Approved for use subject to Government approved of specific deviation

Withorized Reviewar

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30000	NTRACTOR'S S	UBMITTAL TRANSMITTAL 355/3 (Rev. 11-80)	CONTRACT NO 81-C-1644	TRANSMI	TTAL NO	DATE 4-14-86	
person.	CONTRACTOR		PROJECT TITLE AND LOCATION				
)	darry Pepper	& Associates, Inc.	Holcomb Blvd Wa	ter T	reatment	Flant	
	Henry Von Oes	en & Associates, Inc.	MCB, Cp Lejeune	, Nor	th Carol	Lina	
		CONTRACTOR USE ONLY			REVIE	WER USE ONLY	
	Contractor Approved	*List only one specification division per fi List only one of the following categories on each tr and indicate which is being submitted OICC Approval	ansmittal form,	7	A-Appro D-Disap AN-App	oproved proved as noted eipt acknowledged. ments	
LEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICAT (Type, size, model no., Mfg. r brochure numbe	TION name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE	
	02734	ROTARY DRILLED WATER WELLS	WELL # 12			***************************************	
	3,1,6	24 Hour Pump Test		7	A	JRB	
	3.1.6	2 Hour Recovery Test		7	A	JRB	
	y Y						
1000000			and the Section of th		and	N. 1	
		and the second					
N	TRACTOR'S COMMENTS			77,			
)P	Y OF TRANSMITTAL AND SU	IBMITTALS TO POICC	CONTRACTOR REPRESENTATIVE	\	<b>—</b>		
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AT	RECEIVED BY REVIEWER	FROM (Reviewer)	ТО	1			
4	/18/86	Henry von Oesen & A	sso <del>ct, ing.</del>	ANITIO	DIVIDIG		
	Submittals are return tractor calls attention	ed with action indicated. Approval of an item does not to and supports the deviation.	ot include approval of any deviation	FS EN	GINEERIN	direments unless the	
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CONTRACT NO.

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE

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DEVIATION --- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICIAL

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APPROVAL OF A

FOR OFFICER IN CHARGE OF CONSTRUCTION

NAVAL FACILITIES ENGINEERING COMMAND SUBJECT TO THE PLANIESSCALE OF APPROVAL OF A SUBTRITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE COM-TRACT REQUIREMENTS LOLLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPRINTS THE 11 + 00 CESTALE FOR PROPERTY PROPERTY PRESIDENT 22 APR 1986 DIMENSIONS & AVEIGHTS, COORDINATION OF REVIEWER FOR OFFICER IN CHARGE OF CONSTRUCTION

STATIC 16'8"

DRAWDOWN

20' 9" 7 1 9" 6" 711 10" 5" 9" 911 2" 2" 3" 7"

6" 911

8"

6"

711

11"

711 6"

411

5"

5"

8"

5"

411

7"

8"

6" 7"

8" 6" 5"

3" 1"

1"

24 Hour Pump Test Well # 12

TIME	PUMP SETTING
	84'
	PUMPING LEVEL
10:00	
10:01	36"9"
10:02	37'6"
10:03	38'1"
10 :04	38'10"
10.05	39'4"
1 0:06	39'11"
10:07	40'9"
10:08	41'2"
10:09	41'11"
10:10	42'8"
10:15	42'10"
10:20	43'1"
10:25	43'4"
10:30	43'11"
10:35	44'5"
10:40	45'2"
10:45	45'10"
10:50	46'4"
10:55	46'11"
11:00	47'10"
12:00	48'5""
1:00	48'11"
2:00	49'3"
3:00	49'8"
4:00	50'1"
5:00	50'9"
6:00	51'2"
7:00	51'6"
8:00	52'1"
9:00	-52'9"
10:00	53'3"
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12:00	54'6"
1:00	55'
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7:00	55'10"
8:00	55'10"
9:00	55'10
10:00	55'11"

WOLD DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511 APPROVED\_ APPROVED AS NOTED DISAPPROVED\_ SUBJECT TO THE REQUIREMENTS OF N62470 - 81-C - 1644 CONTRACT NO. APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CON-TRACT & O'REMENTS UNLESS THE CONTRAC-TOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION . . . THE CONTRACTOR SHALL BE RES-PONSIBLE FOR PROVIDING PROPER PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED. FOR OFFICER IN CHARGE OF CONSTRUCTION servely carthied that the (motories) (equipment) end on

whose in this submittal, shop drawings, gatalog out (s), etc., ner id stored/binsoced to be incorporated into Contract Number 162470-31 0-1644 is in compliance with the Contract bravings and Specifications and can be installed in the allocated space, and im

Approved for use.

Submitted for Covornment approval.

Approved for use subject to Government upording of specific deviation.

Authorized Reviewer

Senulure CQC Rep. C

APPLOYED AS NOTED.

SUBJECT TO THE REQUIREMENTS OF

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APPROVAL OF ANY DEVIATION FROM THE CONTRACT TOOL

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Two Hour Recovery Well # 12

10:01		25'1"
10:02		19"6"
10:03		19'
10:04		18'1"
10:05	The same of the sa	17'10'
10:06	Later Land	17'2"
10:07		16'8"
10:08		11
10:09		11
10:10	Control of the second	" 🤻
10:15		
10:20		11
10:25		
10:30		- 11
10:35		
10:40		
10:45		11
10:50		11
10:55		II .
11:00		

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

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977	enry Von Oese	m & Associates, Inc.	MCB, Cp Lojeu	ne, Nort	h Carol	ina	
7	*************** <b>*</b>			WER USE ONLY			
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	02734	BOTARY DRILLED WATER WELL	S WELL # :	1.2	19		
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17.0							
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100 100	Edditional (	ing replaces Shop Drawing I	Previously submitt		Transmi	etal # 151,	
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P	de Shop Draw ted 1-16-86.  Of TRANSMITTAL AND SUR COPY TO ROL	ing replaces Shop Drawing I	CONTRACTOR REPRESENTAT		Transmi	etal # 151,	
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FCR

R. L. MAGETTE COMPANY

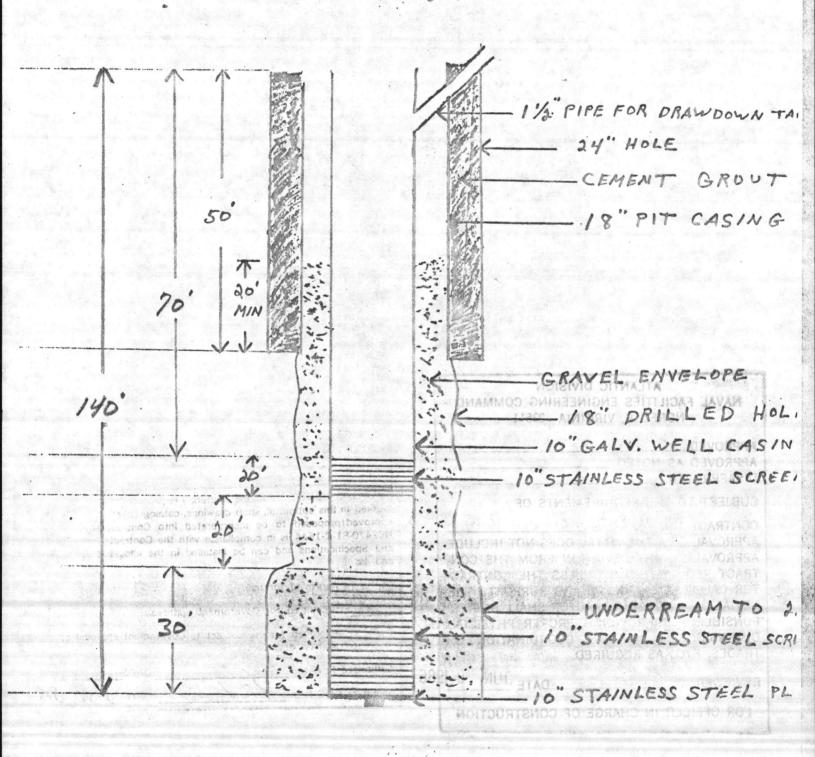
Item# 1

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

Tidewaler Virginia and Eastern North Caroline 11.

WELL #12

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



	ATLAN	TIC DIVISI	ON		
NAVAL	FACILITIES	ENGINEER	ING	COMMAND	
	NORFOLK,	VIRGINIA	235	11	

APPROVED AS NOTED DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF

CONTRACT NO. NG2470- (1- 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.

DEVIEWED MBrung 2- III

-JUN 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 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.

DATE.

R. L. MAGETTE COMPANY

Item# 1

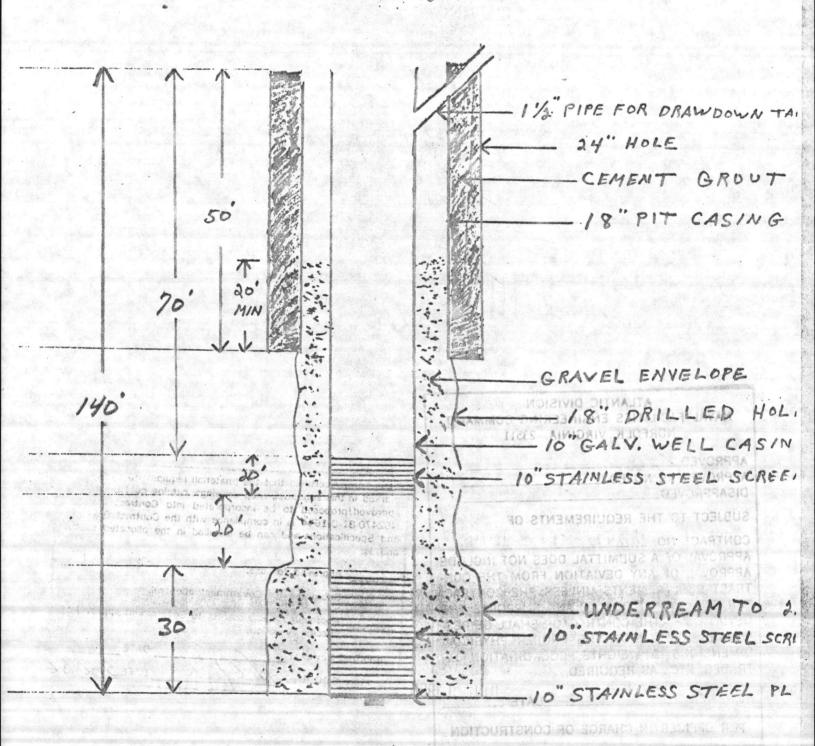
WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

Serving Ridewaler Virginia and Eastern North Carolina LAND

WELL #12

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



#### NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511

APPROVED V

APPROVED AS NOTED
SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. NG2470 - \$1 - C = 1644
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APPROVAL OF ANY DEVIATION FROM THE CON-
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DEVIATION THE CONTRACTOR SHALL BE RES-
PONSIBLE FOR PROVIDING PROPER PHYSICIAL
DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

REVIEWER MOSTURE BATE JUN 9 1986

FOR OFFICER IN CHARGE OF CONSTRUCTION

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and is:		- was to the min
	Approved for use.	
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	Approved for use subject specific deviation.	at to Government approval of
Authoriz	ed Reviewer	DATE
Signatu	re CQC Rep. Thil te	ese DATE 5 30 8 E

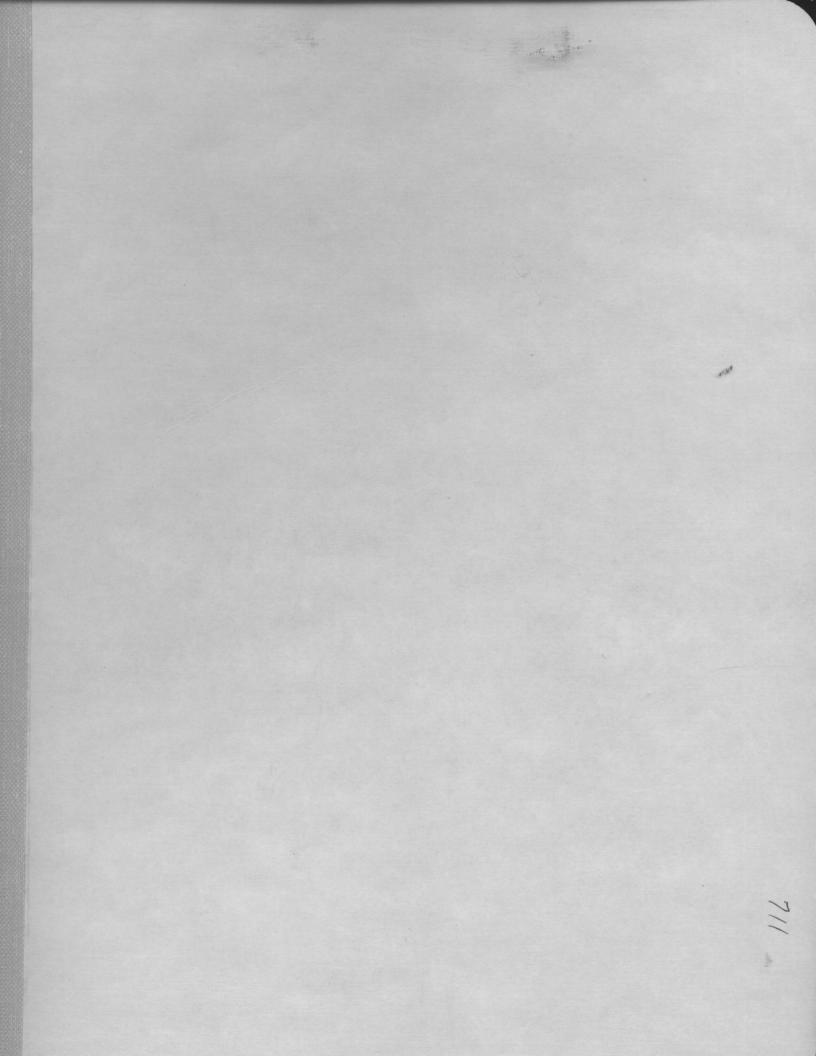
### FILE FOLDER

#### **DESCRIPTION ON TAB:**

Well #711

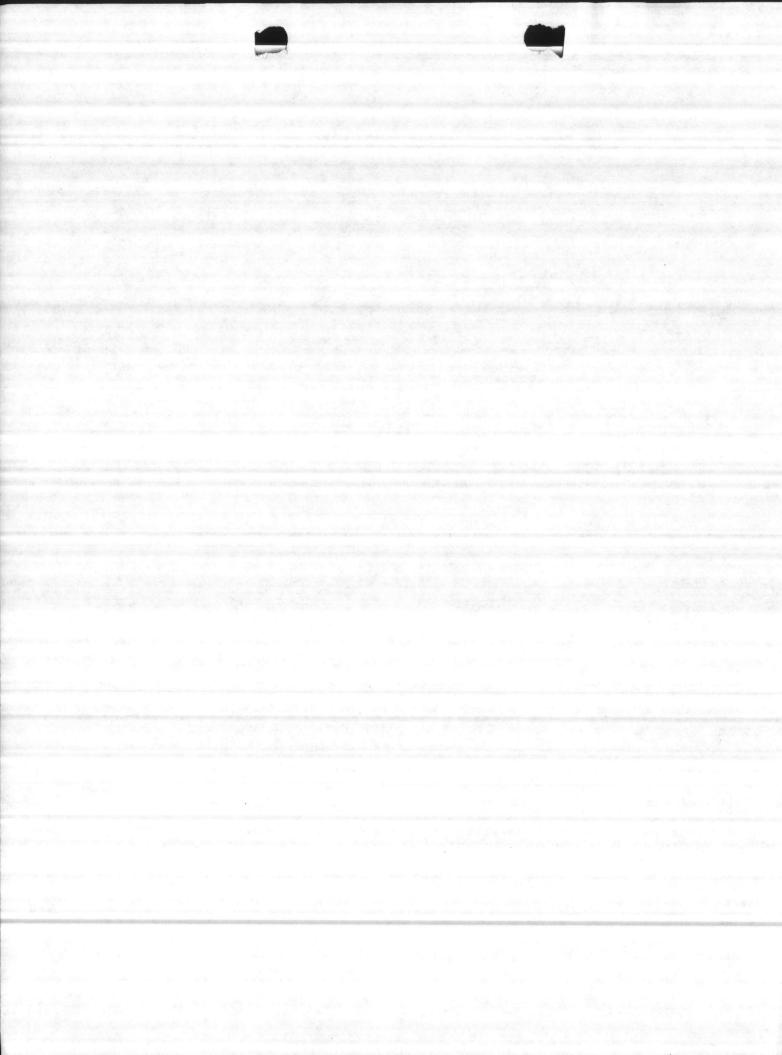
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Confidential Records Management, Inc. New Bern, NC 1-888-622-4425 9/08



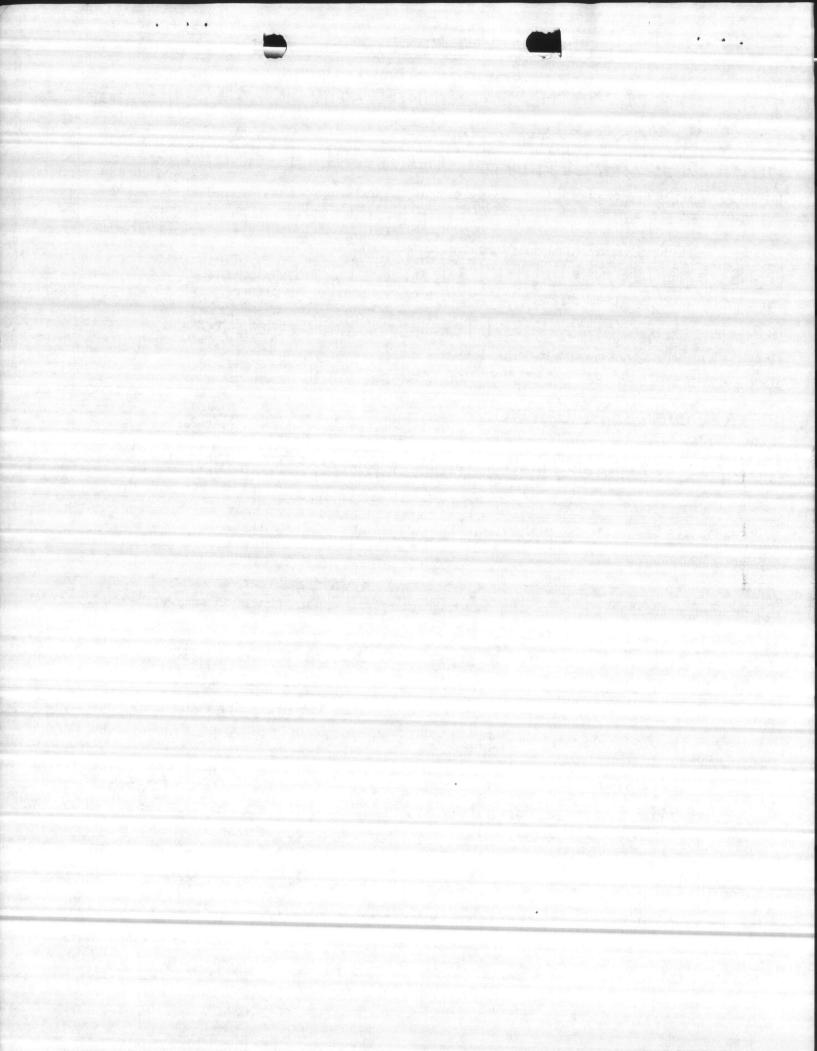
DATE 7-25-00, PWSID 04-67-04/

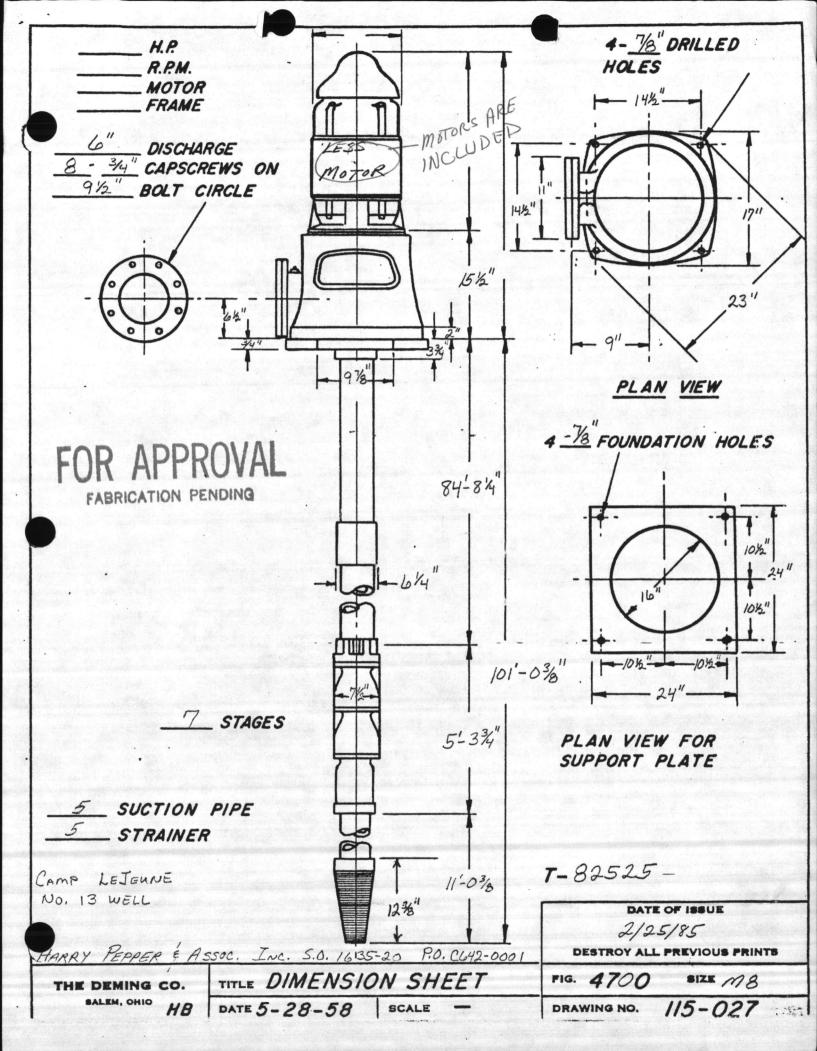
WELL # HP 711
WELL NAME - HODNOT POINT HP-2
BLDG
CODE
AVAILABILITY P.
LOCATION D- LINE ROAD.
LATITUDE 34. 70561
LONGITUDE
WELL DIAMETER/0"
WELL DEPTH/50'
SCREEN INTERVAL
YIELD
STATIC LEVEL 24 '
PUMPING LEVEL58
PUMP TYPE JERRICAL TORBINE
MOTOR HP
INTAKE DEPTH85
DESIGN CAPACITY 150
ACTUAL GPMX
SIZE OF CONCRETE SLAB /0 X/0
HEIGHT OF CASING/8"



DEHNR 3803 (Revised 12/93)
Public Water Supply Section (Review 12/96)

GROUND WATER
Owner Assigned Well Name (If purchase, name of system)  Code G=Ground  W=Purchase G
Source Code  Well Name (If purchase, name of system)  Code  G=Ground  W=Purchase/G  Y=G w/direct influence  Z=W w/direct influence  Z=W w/direct influence
If Purchase, seller ID# Source Begin Date Source exempt— Direct Influence Date Availability  SWTR? — M M D D Y Y  P=Permanent
SWIK!  Y  E=Emergency  S-Seasonal  O=Other
Location of well within the system (If purchase, location of master meter)
D-LINE ROAD  How Determined GPS Data No. of Sats. Locked o
Latitude (N) Longitude (W)  Dec. Min. Sec. G=GPS  O# or
3 4 4 2 2 DOP#
(If purchase, use seller's primary source lat/long)  Vulnerable (VOCs) Y Assessment Date
ENTRY POINT INFORMATION  Use Code  Availability  P=Year-round S=Seasonal
Owner Assigned D=Ground/non-permanent E=Emergency I=Interim O=Othe
Entry Point Code Entry Point Name
100 ATTHEBUTE TO THE PART OF T
Location:
Well Site: Owned or controlled?(Y,N) Control Area (100' radius)?(Y,N) If no, explain:
Sources of pollution/distance: None - woods
Surface water within 200? N If yes, actual distance feet If yes, bact. samples collected?(Y,N)
Adequate slope?
Well House Free of stored meterials? N(Y,N) Properly drained? (Y,N) Locked? (Y,N)
Type of freeze protection: FREE () Exc
Yield (gpm): Yield (gpm):
Well depth: 150' Meter available? (If unknown, Well depth: 150' Meter available?
Concrete slab adequate? (Y,N) If no, explain:
Sample can Before treatment? Y(Y,N) After treatment:(Y,N)
Size of blow-off: 4 (1)  Sample tap: Defot translation of the sample tap: Defot trans
Type pump: VISCILCE TURBINE Height above floor (pump/casing): 18
Ground
Storage at well site: Elev:
If hydroautomatic, air volume control?(Y,N) Safety valves?(Y,N) Coded?(Y,N)
If hydroautomatic, air volume control:(1,N) Salety valves(1,N) High service pumps: 1gpmhp 2gpmhp 3gpmhp Auxiliary Power?(Y
1 1: All If was complete back of form
If other wells are treated here, which ones?  If treated elsewhere, where? H-20 PLANT
If purchase, retreat? Y If yes, complete back of form. Ogperet pump pedestal
If purchase, retreat? Y If yes, complete back of form. Deposit pump pedestal  DEHNR 3803 (Revised 12/93)  DEHNR 3803 (Revised 12/93)  DEHNR 3803 (Revised 12/93)  DEHNR 3803 (Revised 12/96)





FOR APPROVAL

CAMP LETEUNE NO. 13 WELL DEMING PUMP CO. SALEM , OHIO , U.S.A. 240 HARRY PEPPER & ASSOC. INC. S.D. 1635-20 P.O. C642-0001 CHARACTERISTIC CURVES FIG. 4700 SIZE M 8 STAGES 7 MPELLER 22665 DESIGNED RATING: G.P.M. 260 HEAD 156 R.P.M. 1770 OTHER CURVE POINTS AND GENERAL SHAPE OF CURVES ARE APPROXIMATE 200 HEAD 90 GUARANTEED MIN. EFF. AT DESIGN POINT 71% 160 80 70 120 60 50 RIC BHP 160 240 320 480 400 560 SERIAL NO. U. S. GALLONS PER MINUTE DATE 2-25-85 NO. 023632

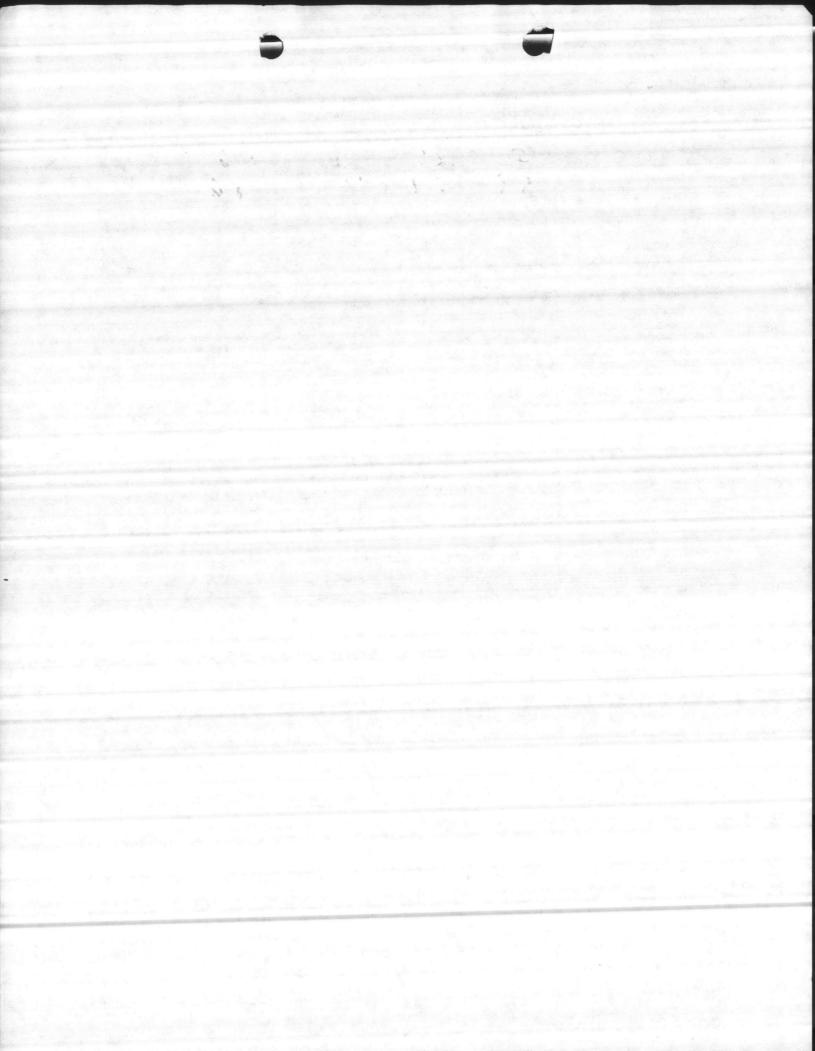
ANORGGA SOT

WELL NUMBER	710	BY STeve	ensor of	Petason	DATE 7-1	11-97
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START
85	28	53	25	20	100	TIME
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		Cale No.				
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		a Bolton Albania Agency		Company of the Compan		
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REMARKS

D/H 56 PS

ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
				100



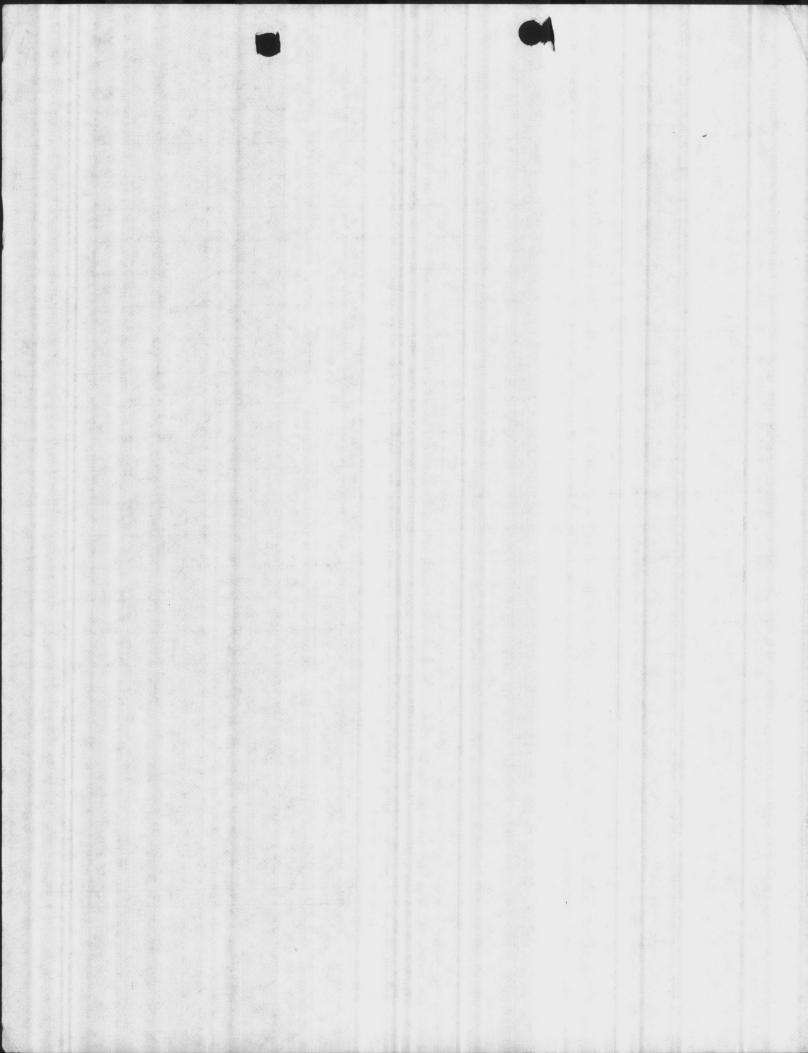


WELL NUMBER	711	BY STEVEN	isa a B	rour	DATE /C	11-99
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	28	55	32	15	100	
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		1 24				

LEMARKS

D. H 67 PSI

NUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



WELL NUMBER	711	BY THOM	A5/8R	rwd.	DATE 9-	2-92
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DOWN DOWN	DISCHARGE PRESSURE	GPM	START
85	24	57	31	30	100	05
		56	32	25	108	15
;		58	34	20	108	25
		60	34	15	172	35 pres
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			1			

REMARKS Dead pead 70 PSI

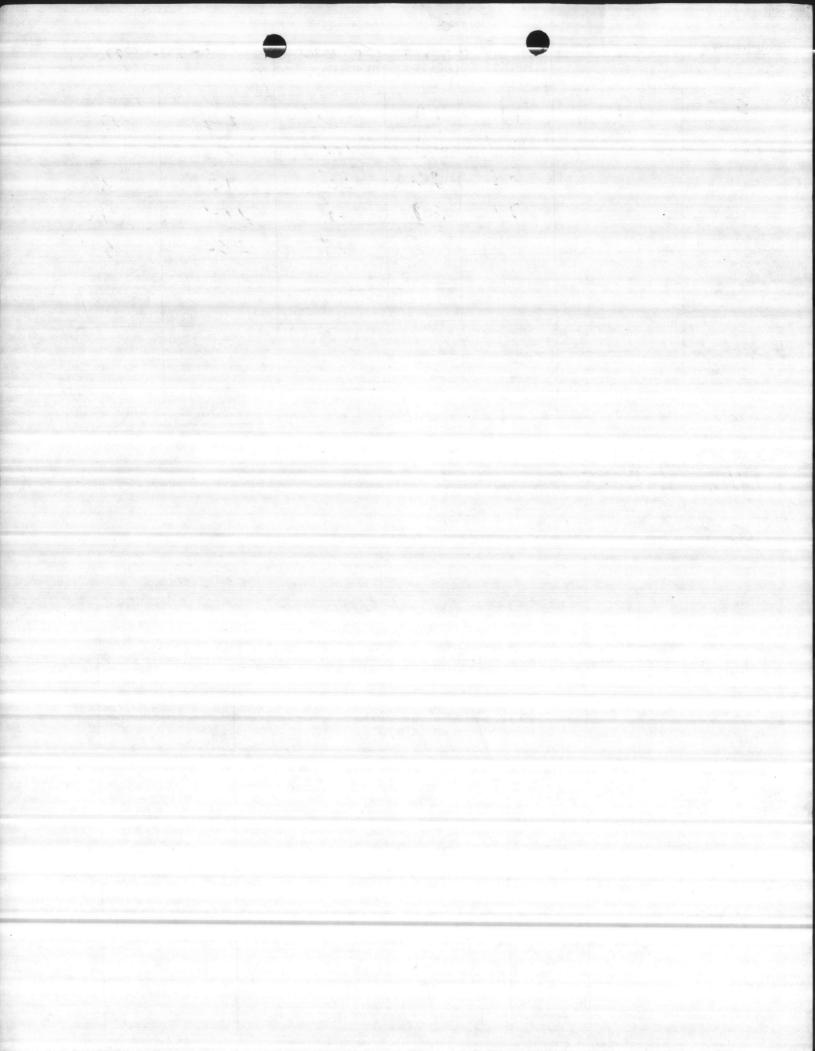
NUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
			TOTAL READ	SIZE
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WELL NUMBER	701		m45 +	BROWN	DATE 3-/	9-90
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	19'	41	22	50	104.	05
		47	28	40	164	15
		65	46	35	195	30
		71	6.2	26	214	40
		75	66	21	235	50
		10 de	o construction			
agita						
	***					

Dead Head PST 65'
Set @ 21

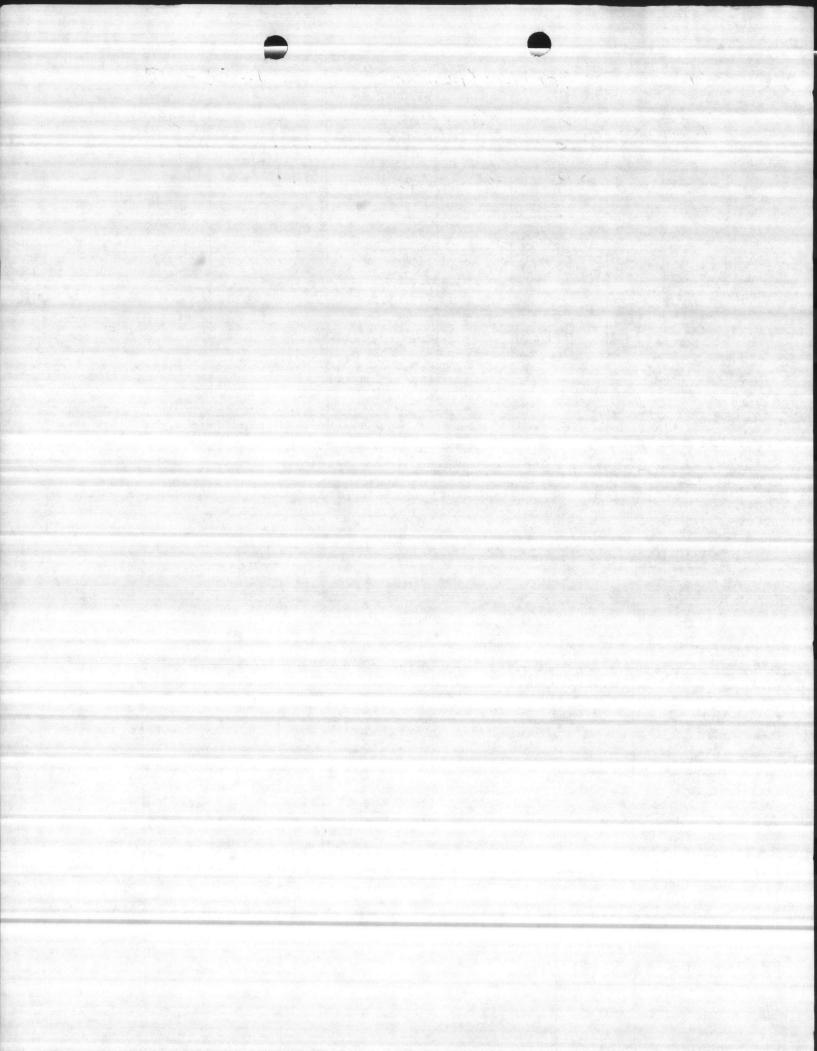
ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
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				*
			and the state of the state of	
	Name of Street		Designation of the American Mark of the American American Community of the American Communi	
	-			



NUMBER	7//	BY THOI		ROWAS	DATE 10	- 26 - 88
LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
85	21	46	25	18	104	00
		53	32	10	111	10
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FACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
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ANTDIV NORFOLK 4-43	355/3 (Rev 11-80)		81-C-1644		154-A	3-14-86
OM CONTRACTOR	500/5 (FIGT. 11-00)	-			20112	
	& Associates, Inc	c.	Holcomb B1		Treatment	Plant
	en & Associates,	Inc.	MCB, Cp Le	ieune N	orth Carol	ina
, , , , , , , , , , , , , , , , , , , ,		TOR USE ONLY	, , op 20	Jeane, in	_	EWER USE ONLY
Aller - Land Control	*List only one specifi		or form.			CTION CODES
Contractor Approved	_	ategories on each ch is being submit	tted Devia	tion/Substitutio r OICC Approva	AN-App RA-Red C-Com	pproved proved as noted ceipt acknowledged. ments
PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	(Type, si	ITEM IDENTIFIC ze, model no., Míg brochure num	g. name, dwg. or	NO. OF	ACTION CODES	REVIEWER'S INITIALS CODE AND DATI
02734	ROTARY DRILLED V	VATER WELLS	S Well	# 13		
2.2.4	Recommendation	and Data Si	ubmittal		A	ans
2.2 2.2.3	Driller's Log Electric Log and	i Gamma Lo	g / / /			out
2.2.2	Water Analysis			7	A	MS
2.2.2	Sieve Analysis	<b>\</b>	the second secon		A	MS
				그 경찰에도 다른 경우에 그렇게 먹었다고 하다.		11/1
1.2.1  Intractors comments  The sample for the samp	Shop Drawings		Worls	Morpi		THE STATE OF THE S
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# HARRY PEPPER & ASSOCIATES, INC.

Hem#1

ENGINEERING CONTRACTORS

March 14, 1986

Henry Von Oesen and 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 # 13

### 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 ft. Water samples were taken at 90' and at 135'.

We recommend a .030 slot stainless steel screen set at 84'-104' and at 125'-145' depth for a total of 40 VF of screen. The gravel pack recommended is 8-12. It is our best estimate that this well my yield 260 GPM.

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

Very truly yours, HARRY PEPPER & ASSOCIATES, INC.

Phil Keese

NAVATOR SUPPLY SENGINEERING COMMAND
NORFOLK, VIRGINIA 23511
APPROVED_X
APPROVED AS NOTED
DISAPPROVED
SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. NG470- 21- C - 1644
ADDOMINE OF A SUBMITTAL DOES NOT INCLUDES
ADODOVAL OF AMY DEVIATION FROM THE CON-
TO ACT DECIMENTED THE CONTRACTOR CALLS ATTENDED TO AND SUPPORTS THE

and Spe	ecifications and can be installed in the allocated space,
	Approved for use.
K	Submitted for Government approval.
	Approved for use subject to Government approval of specific deviation.
Authorize	ed Reviewer DATE
Signature	CQC Rep. The Trese DATES-14-86
	The state of the s

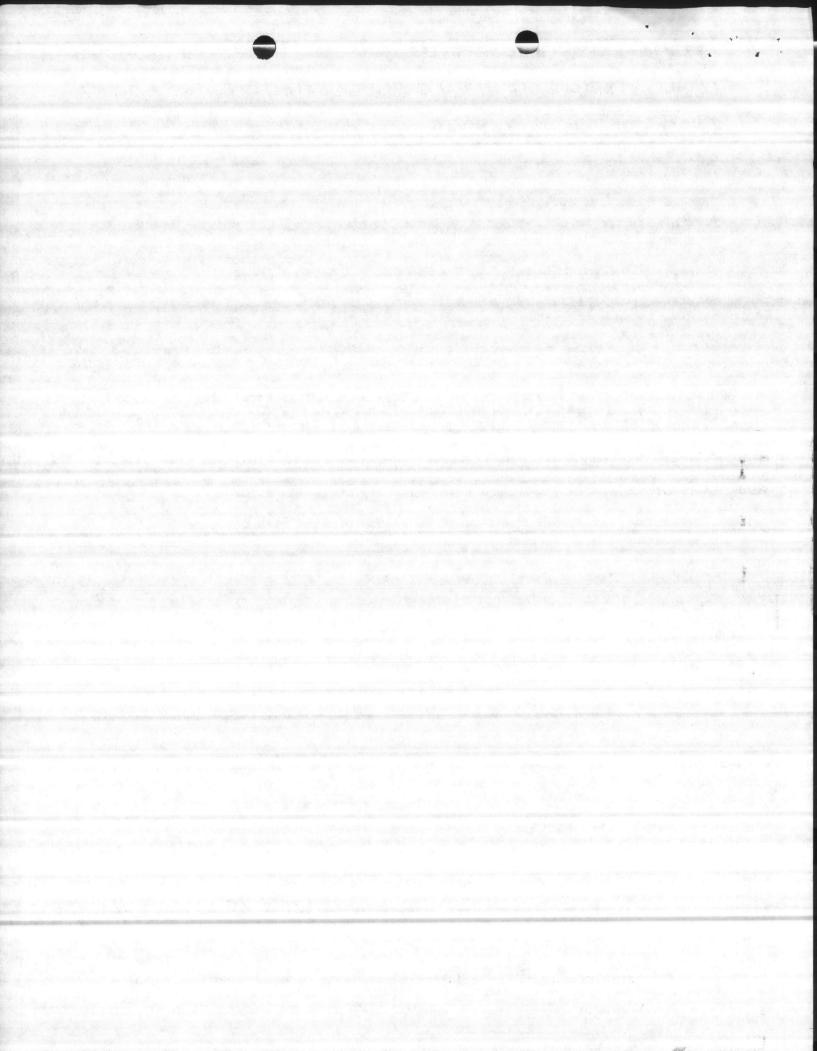
JACKSONVILLE, FL. 32206

hereby certified that the (material) (equipment) shake an 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

FOR OFFICER IN CHARGE OF CONSTRUCTION

OVIDING PROPER PHYSICIAL

904/356-3954





## HARRY PEPPER & ASSOCIATES, INC.

Hem#1

ENGINEERING CONTRACTORS

March 14, 1986

Henry Von Oesen and 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 # 13

Gentlemen:

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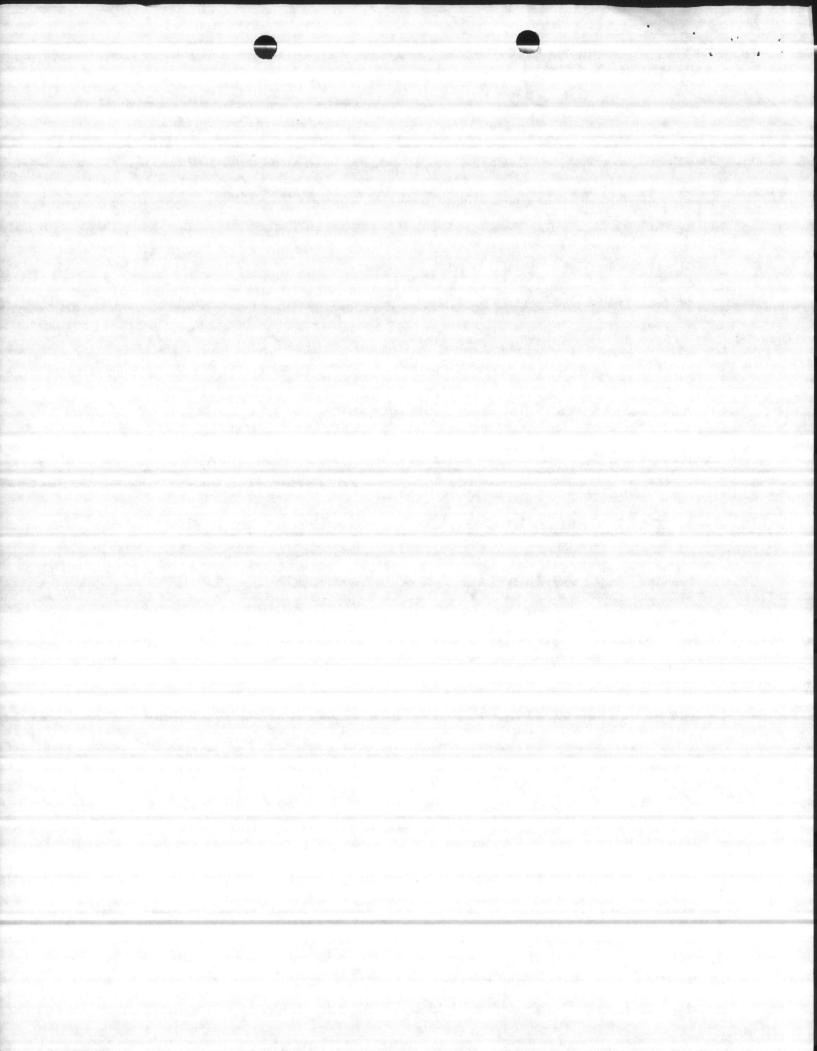
Please review this data and advise if we are to proceed with developing a permanent well at this site.

Very truly yours, HARRY PEPPER & ASSOCIATES, INC.

FOR OFFICER IN CHARGE OF CONSTRUCTION

Phil Keese CQC Officer

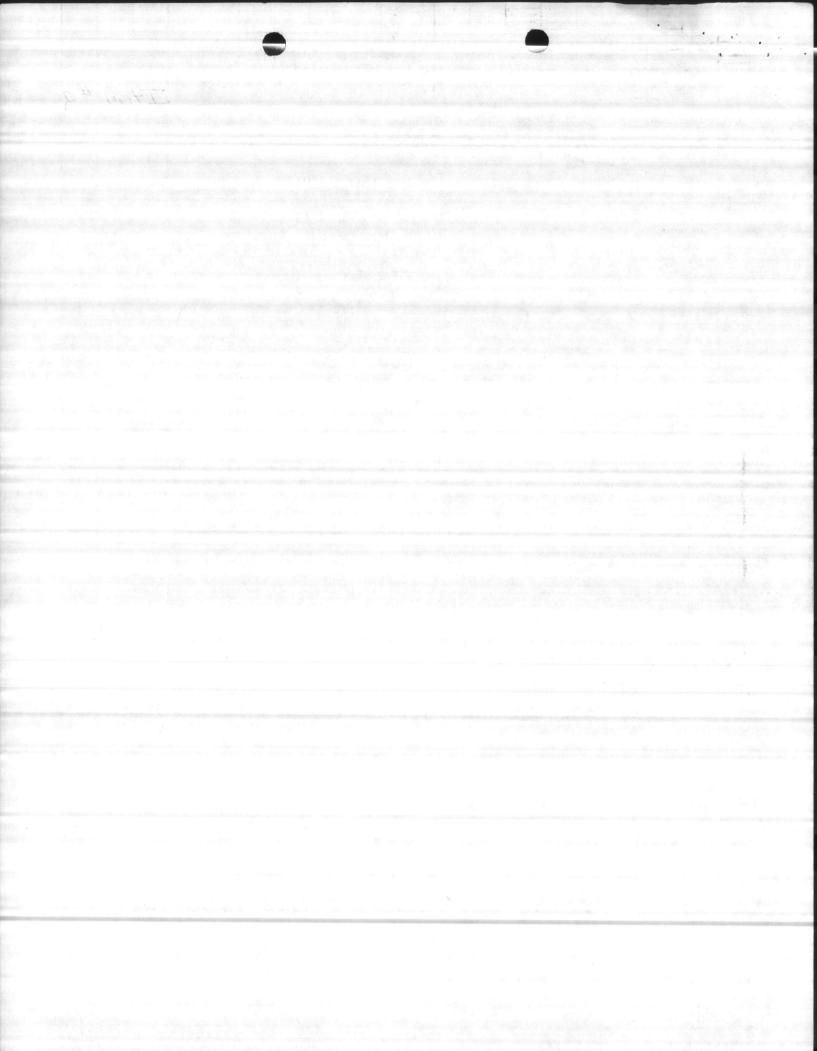
ATLANTIC DIVISION  NAVAL FACILITIES ENGINEERING COMMAND  NORFOLK, VIRGINIA 23511  APPROVED X  APPROVED AS NOTED	marked in this submittal, shop drawings, catalog cut (s), etc., and epproved/proposed to be incorporated into Contract Number N62470-81-C-1644 is in compliance with the Contract Drawings and Specifications and can be installed in the allocated space, and is:
DISAPPROVED	Approved for use.
CONTRACT NO. 26470-91-6-1644  APPROVAL OF A SUBMITTAL DOES NOT HOLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT PECULIFICATION TO AND SUPERIOR E	Submitted for Government approval.  Approved for use subject to Government approval of specific deviation.  Authorized Reviewer  Signature CQC Rep.  DATE  DATE  DATE  DATE  DATE  DATE  DATE
PONSIBLE FOR PROVIDING PROPER PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF	CKSONVILLE, FL. 32206 904/356-3954

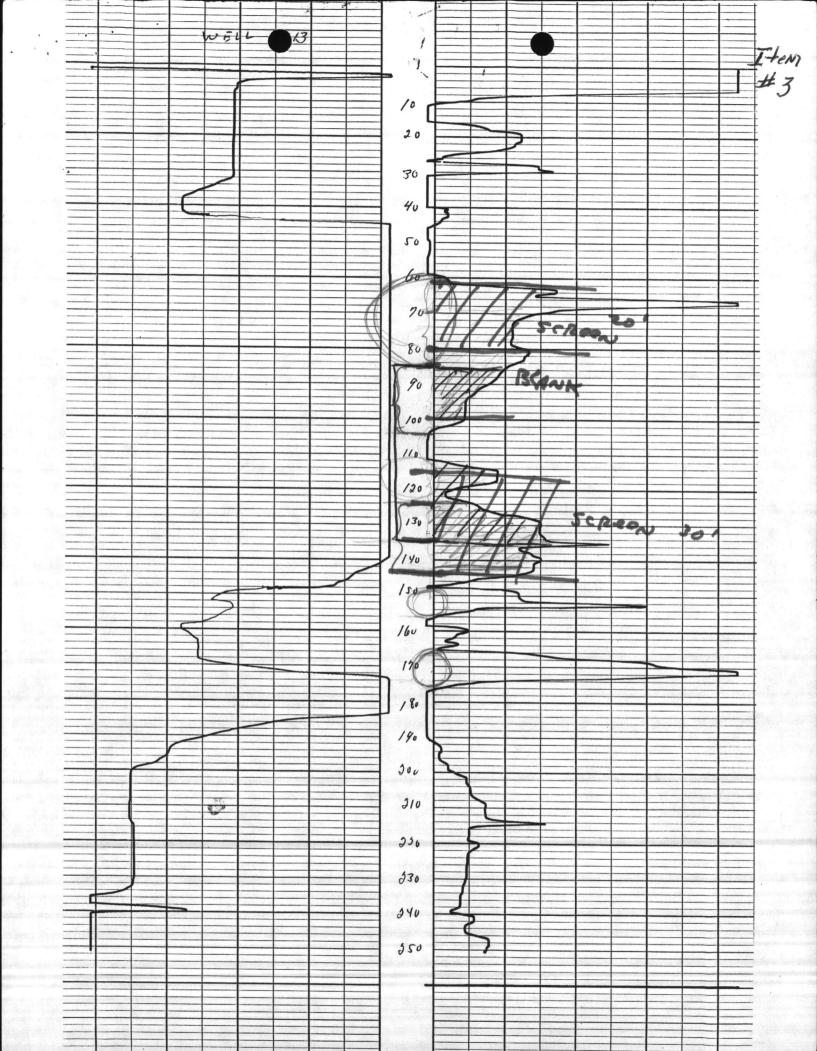


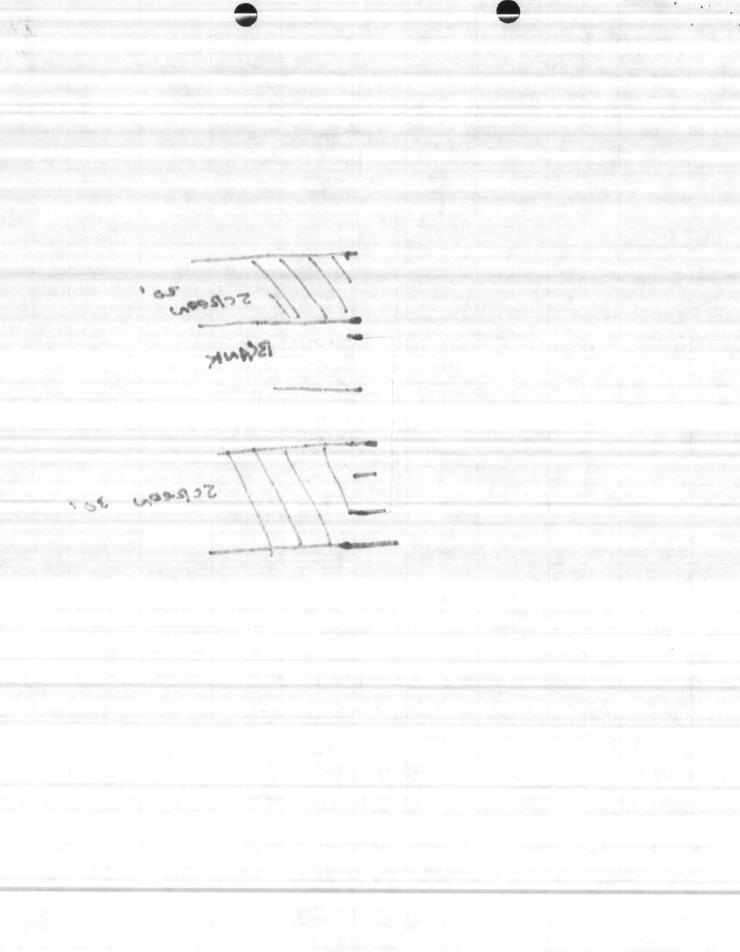
### DRILLERS LOG CAMP LEJEUNE WELL #13

A. L. G	1 1	" And the Second	Programme Programme	1
DEPT	to al	1 11	SAME	1
And from 1		5		- 1

Q		10 FT	TOPSOIL, WHITE SAND AND WHITE CLAY
10	tert	50 FT	GRAY CLAY
50		65 FT	GRAY CLAY AND FINE SAND
65		80 FT	
80		105 FT	GRAY CLAY AND LIMESTONE
105		170 FT	
17,0		205 FT	LIMESTONE AND GREEN CLAY
205		250 FT	







LAW & COMPANY

Consulting and Analytical Chemists

Item# 4

ESTABLISHED 1903

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

REPORT DATE: 11-12-85

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

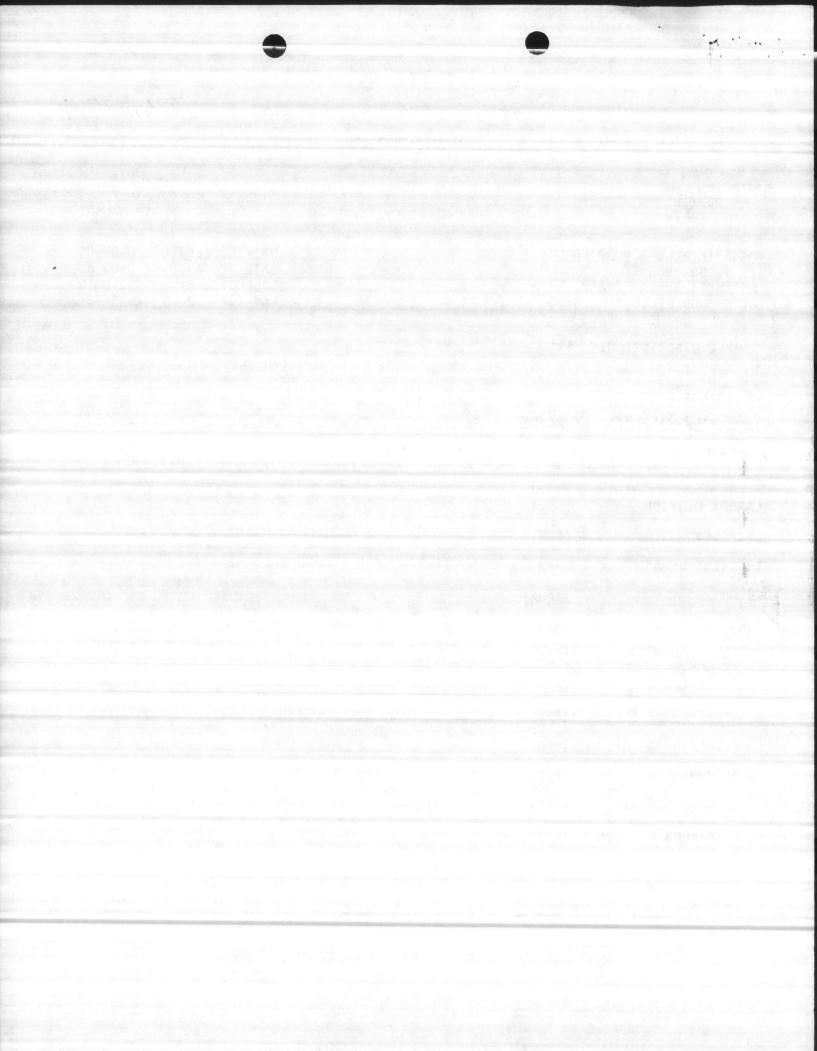
MAJETTE WELL & PUMP CO P. O. BOX 908

DATE COLLECTED: 10-02-85 10-03-85 DATE RECEIVED: CUSTOMER COLLECTED BY: EW 9688 LAB IO#

SMITHFIELD, VA 23430 ATTN: BUD KELLOG

80'-90' WELL #13 SAMPLE DESCRIPTION:

TESTS/UNITS		RESULTS
DISSOLVED OXYGEN	(MG/L)	6
TEMPERATURE		19.5°C
pH		. 8.0
CARBON DIOXIDE	(PPM)	0
SULFIDES	(PPM)	0
CHLORINE DEMAND	(PPM)	.8
COLOR	(APHA)	85
TURBIDITY	(NTU)	.75
TOTAL ALKALINITY	(PPM)	190
HYDROXIDE	(PPM)	0
BICARBONATE	(PPM)	168
CARBONATE	(PPM)	22
TOTAL HARDNESS	(PPM)	135
NON- CARBONATE	(PPM)	0
CARBONATE	(PPM)	135
TOTAL DISSOLVED SOLIDS	(PPM)	190
CONTINUED		



# LAW & COMPANY

# Consulting and Analytical Chamists

ESTABLISHED 1903

Main Office 1 - 1 Castle Street r.O. Box 629 Wilmington, N.C. 28402 10 X 210 937 0280 10 X 210 937 0280 10 X 210 937 0280

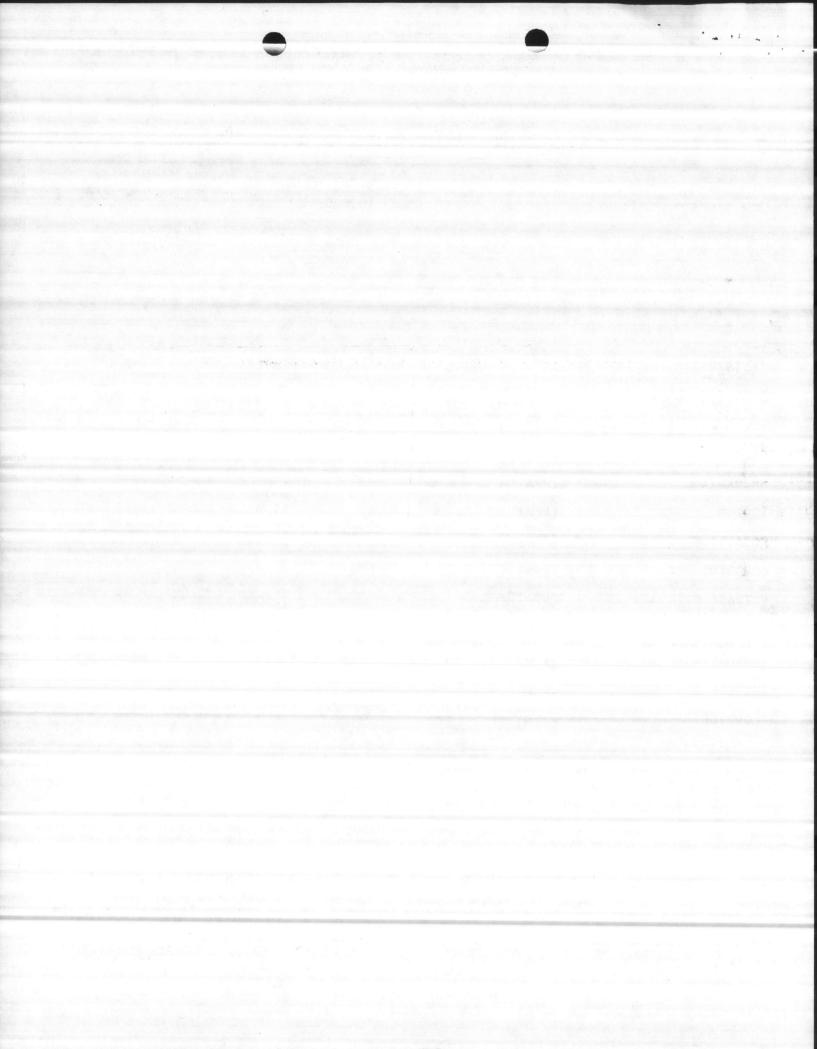
TESTS/UNITS		RESULTS
SPECIFIC CONDUCTANCE	(UMHOS)	420
SULFATES	(PPM)	.16
CALCIUM	(PPM)	. 43
MAGNESIUM	(PPM)	• 1.8
SODIUM	(PPM)	14.0
POTASSIUM	(PPM)	.8
CHLORIDE	(PPM)	96
NITRATE NITROGEN	(PPM)	<.2
IRON	(PPM)	.18
MANGANESE	(PPM)	<.015
SILICON	(PPM)	5.9
FLOURIDE	(PPM)	<.2

CHEMIST

Dolly Bidwan

TOTAL CHARGES:

\$180.00



ESTABLISHED 1903

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

3-11-86 REPORT DATE:

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

MAJETTE WELL & PUMP COMPANY

POST OFFICE BOX 908 SMITHFIELD, VA.

ATTN: BUD KELLOG

DATE COLLECTED:

2-26-86

DATE RECRIVED: COLLECTED BY:

2-26-86

CUSTOMER

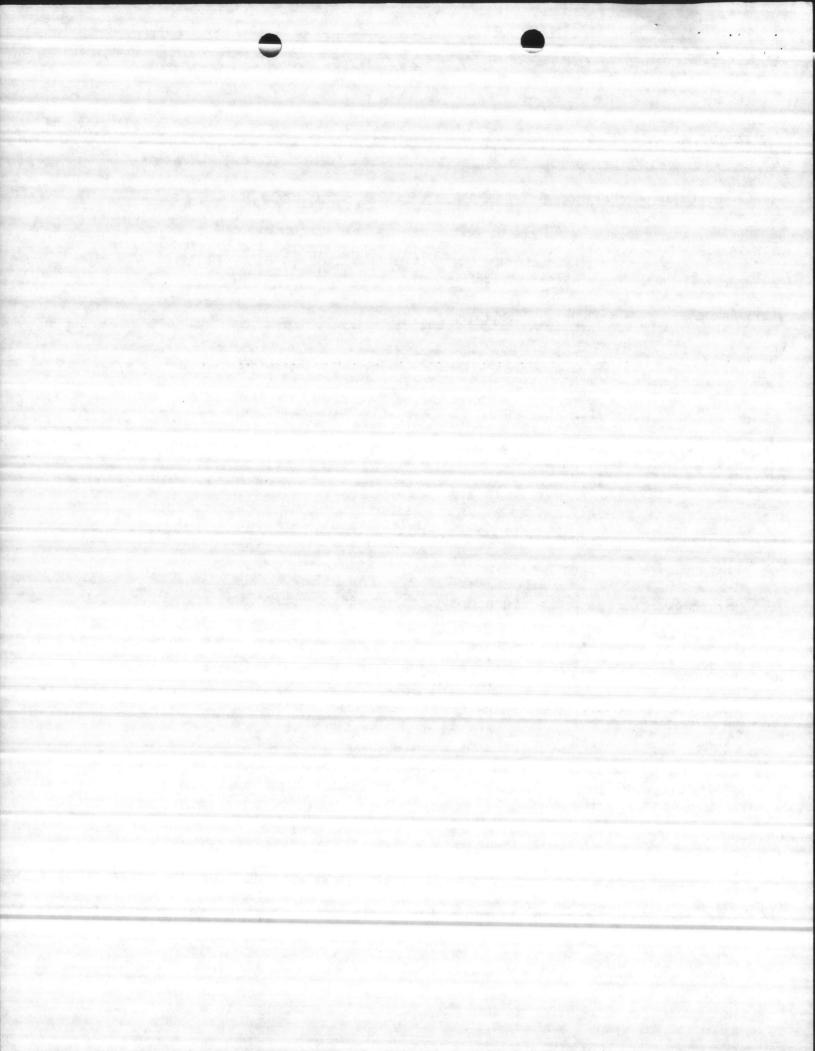
LAB I.D.#

EW 3507

SAMPLE DESCRIPTION: WELL# 13 @ 135feet

TESTS/SAMPLES	38 4	RESULTS			RESULTS
pH		7.8	POTASSIUM	РРМ	1.6
CARBON DIOXIDE	PPM	0	CHLORIDE	PPM	34
SULFIDES	PPM	10	NITRATE NITROGEN	PPM	<.2
CHLORINE DEMAND	PPM	1.8	IRON	PPM	<.00025
COLOR	АРНА	10	MANGANESE	PPM	0.03
TURBIDITY	NTU	5.7	SILICON	PPM	2.1
TOTAL ALKALINITY	PPM	144	FLOURIDE	PPM	<.2
HYDROXIDE	PPM	0			
BICARBONATE	PPM	130			
CARBONATE	PPM	14			
TOTAL HARDNESS	РРМ	88			
NON-CARBONATE	PPM	0			
CARBONATE	PPM	88			
TOTAL DISSOLVED SOLIDS	PPM	207			
SPECIFIC CONDUCTANCE	UMHOS	255			
SULFATES	PPM	4			
CALCIUM	PPM	41			
MAGNESIUM	PPM	1.5			- 000 0 ( - 1
SODIUM	PPM	7.2		CHEMIS	T: Colly Bidwan

TOTAL CHARGES: 180.00



CONTACT...-TELEPHONE .-REMARKS ...-RECOMMENDATIONS: GRAVEL SIZE\_\_\_\_ SCREEN SIZE\_\_\_

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.....13

DEPTH....65-85

FIELD....-

COUNTY...-

STATE....VA

SIEVE ANALYSIS REPORT

US . SIEVE	. IN	MM	WT RET	CUM	CUM %	है 100	GRANULE	COARSE SAND	MEDIUM SAND	FINE SAND	VERY FINE SAND	SILT AND FINER
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	.0787	2.000				. 90		111111111111111111111111111111111111111	******************			
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20	.0331	0.840						111111111111111111111111111111111111111				
25	.0280	0.710				80						
30	.0234	0.589	1.3	1.3	12.6							
35	.0197	0.500	0.6	1.9	18.4	70 .	111111111			111:11:1/11:11		
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45	.0139	0.351	0.6	3.1	30.1	60			100000000000000000000000000000000000000	11111/11111111111		
50	.0117	0.297	0.6	3.7	35.9							
60	.0098	0.250	0.8	4.5	43.7			111111111111111111111111111111111111111				
70	.0083	0.210	0.9	5.4	52.4	. 50				./		
100	.0070	0.177	1.3	7.4	71.8			111:11:11:11:11:11				
120	.0035	0.124	1.0	9.7	94.2	40		[0.04.000] 0.00[ 0.14.0 ]				
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170	.0035	0.088	0.1	10.2	99.0	30	1111111111	110011100000000000000000000000000000000				
7	.0029	0.074	0.1	10.3	100.0		1111111111	111111111111111111111111111111111111111	11111111111111111111111111111			
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							12 16 12-20 1	6-30   20-40	40-60	- 50-70		



CONTACT...TELEPHONE.REMARKS...RECOMMENDATIONS:
GRAVEL SIZE.......
SCREEN SIZE.....

HSSC HOWARD SMITH SCREEN COMPANY

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

SIEVE ANALYSIS REPORT

Item#5

COMPANY...R.L.MAGETTE COMPANY

WELL.....13

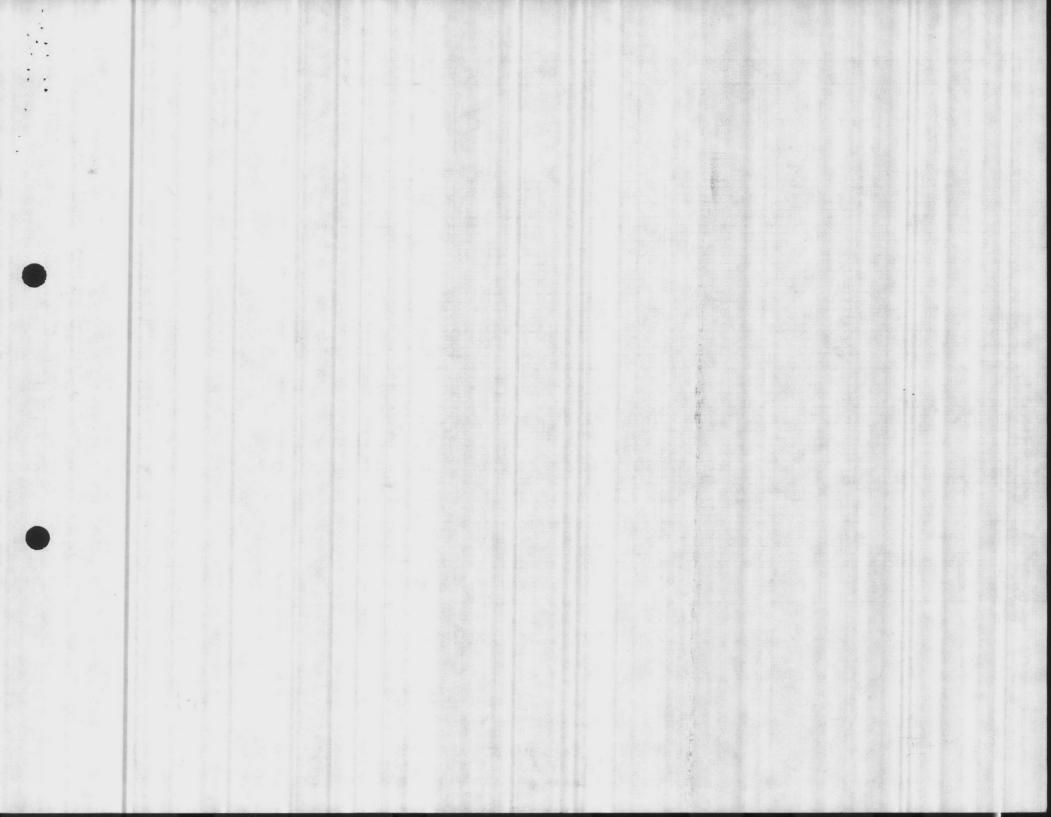
DEPTH....115-145

FIELD....-

COUNTY...-

STATE....VA

US	IN	MM	WT RET	CUM	CUM %	8	GRANULE	COARSE SAND	MEDIUM SAND	FINE SAND	VERY FINE SAND	SILT AND. FINER
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30	.0234	0.589	0.6	0.6	7.0							
35	.0197	0.500	0.3	0.9	10.5	70						
40	.0165	0.420	0.2	1.1	12.8							angan ang ilijin p
45	.0139	0.351	0.4	1.5	17.4	60						
50	.0117	0.297	0.5	2.0	23.3	00	IIII III II I					
60	.0098	0.250	0.9	2.9	33.7							**************
70	.0083	0.210	1.0	3.9	45.3	50				/	i i i i i i i i i i i i i i i i i i i	
80	.0070	0.177	1.9	5.8	67.4							
100	.0059	0.149	1.1	6.9	80.2	40				++/+++++++		
120	.0049	0.124	0.8	7.7	89.5					1		
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FCR

## R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

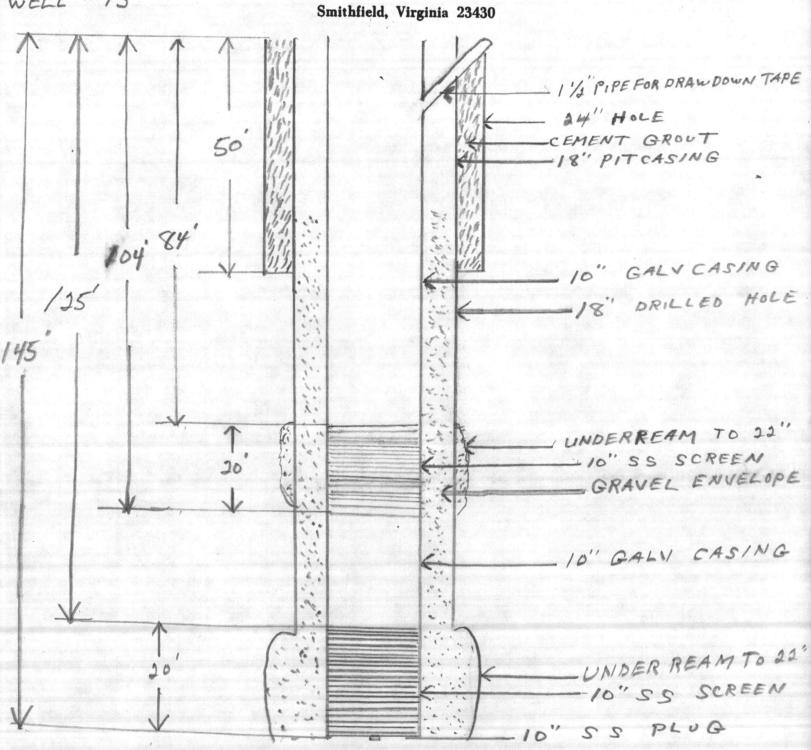
Wells, Pumps and Community Water Systems

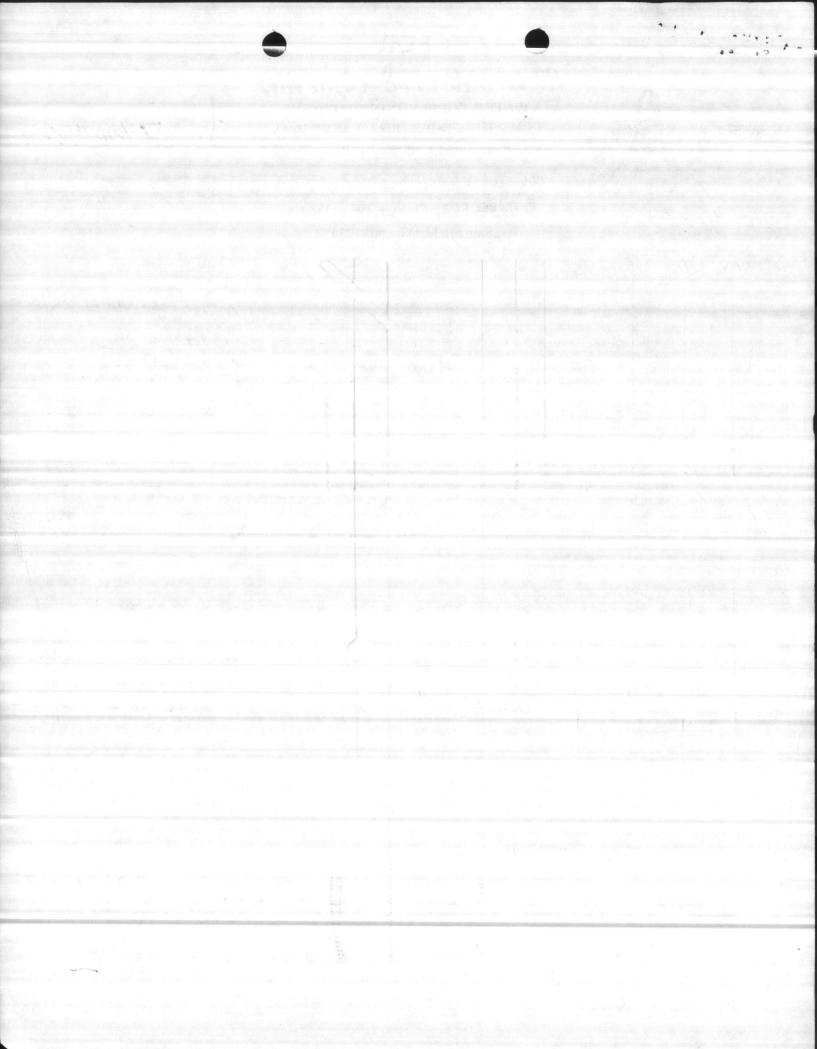
Item#6

Serving Tidewater Virginia and Eastern North Carolina

WELL #13

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





MIL

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Hunt

CONTRACTOR'S S LANTDIV NORFOLK 4-4	UBMITTAL TRANSMITTAL	CONTRACT NO	TRANSM	TTAL NO	DATE	
	333/3 (Nev. 11-80)	81-C-1644	154	-В	5-19-86	
HATTY PARRAY S.	Associates, Inc.	PROJECT TITLE AND LOCAT				
o repper o	ADSUCTATES, INC.	Holcomb Blvd	Water Tr	eatment	Plant	
	a & Associates, Inc.	MCB, Cp Lejeu	ne. Nort	h Caroli	lna .	
	CONTRACTOR USE ONLY			REVIEWER USE ONLY		
	*List only one specification division pe	r form.	J. 10 10 10 10 10 10 10 10 10 10 10 10 10	··A	CTION CODES	
Contractor Approved	ist only one of the following categories on each and indicate which is being submit	Deviation/S	Substitution	RA-Rec C-Comi	pproved proved as noted eipt acknowledged. ments	
PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFIC (Type, size, model no., Mig brochure num	ATION J. name, dwg. or	C Approval	ACTION CODES	REVIEWER'S INITIALS	
					CODE AND DATE	
02734	ROTARY DRILLED WATER WELL,	S WELL #	13			
1.2.1	Shop Drawings	<b>34</b>	7	A	JRB	
3.1.6	Step Test		7	A	JRB	
3.1.6	24 Hour Pump Test		7	A	JRB	
3.1.6	2 Hour Recovery Test		7	A	JRB	
	Statement from Well Drill		_	A	JRB	
or cuen Tuerra	ed at 250GPM. Contractor was cted to do another 24 Hour ttal # 154-A, dated 3-14-86	Pump Test at 200	GPM. Th	is Trans	smittal forms	
NE COPY TO ROL	집회의 (1912년대의 1915년대) 전국하고 그는 그래서 연락이 된 경험에 맞는 경험을 받는 것이 없는데 그런데 없다.	Phil Reese	(Signature)	1 100		
ATE RECEIVED BY REVIEWER	FROM (Reviewer)	THE REESE	0110	gen	<u> </u>	
5/21/86	Henry von Oesen &	Assoc., Inc.		/		
		A CONTRACTOR OF THE PERSON NAMED IN CONT		a contract rea	2 - 0.000 Markey - 2 - 2 - 2 - 2 - 2	
Submittals are returne	d with action indicated. Approval of an item does	not include approval of any de	viation from the	e contract requ	uirements unless the co	
Submittals are forward	d with action indicated. Approval of an item does to and supports the deviation.  ded to LANTDIV with A-E recommendations indic					
Submittals are forward transmittal form.	to and supports the deviation.					
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- Dini Re Chillip Subspace (AL ZHANSKI) Dintety Norrolly Hearso (Right Brass)

# R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

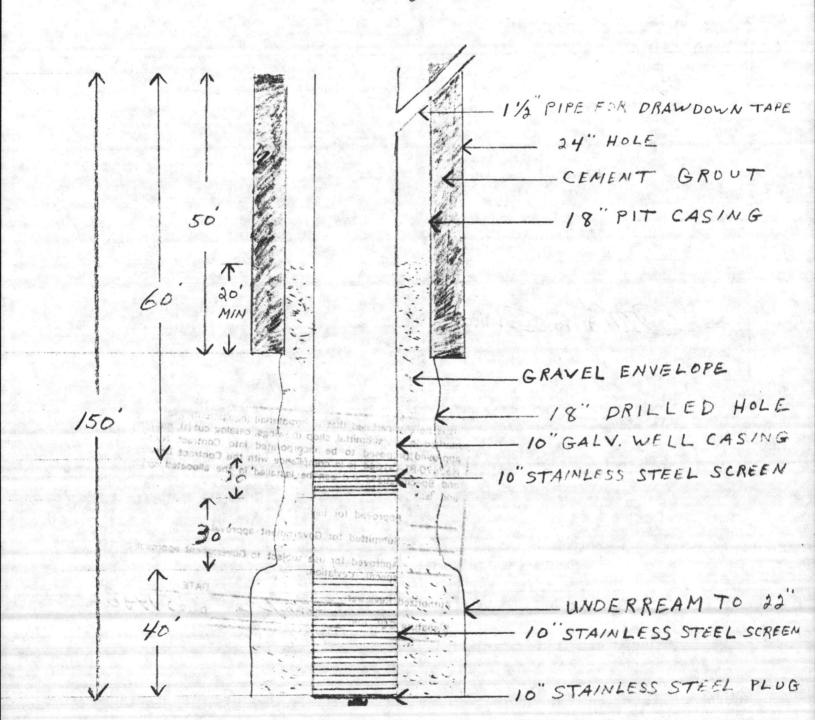
Serving Tidewater Virginia and Eastern North Carolina

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

4/3

WELL

Smithfield, Virginia 23430

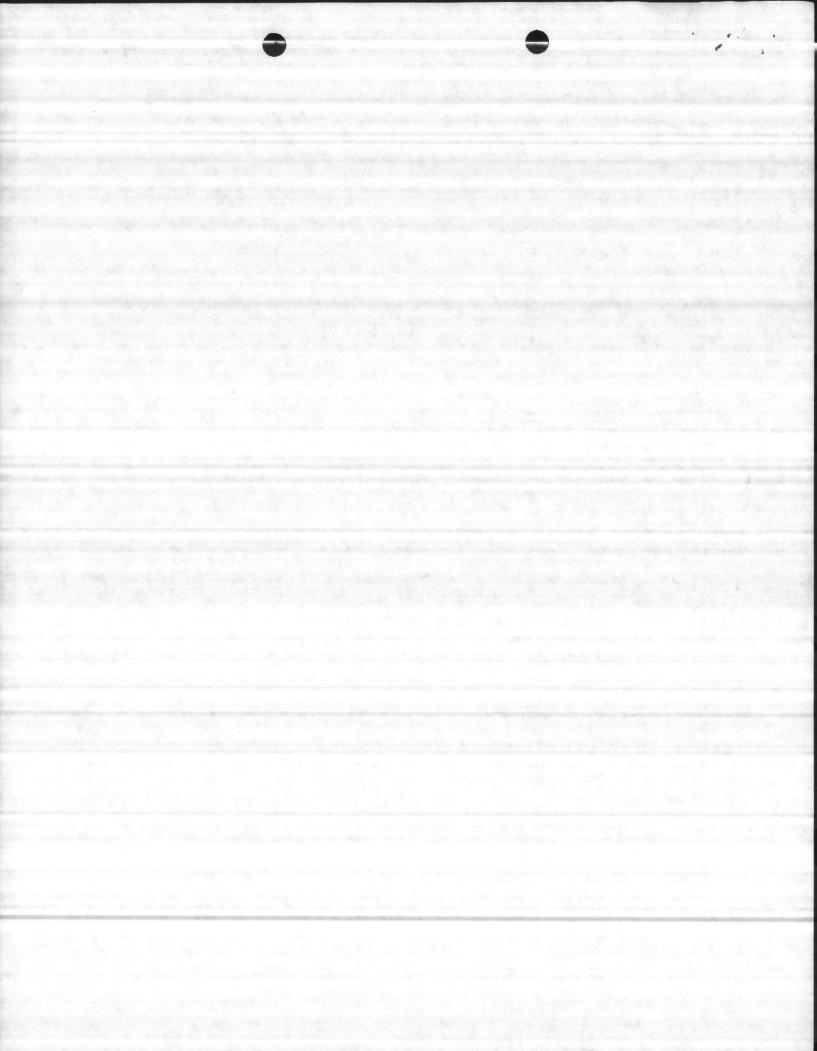


MANT LUCITITIES FIRST	ND
NORFOLK, VIRGINIA	
APPROVED	
APPROVED AS NOTED	
DISAPPROVED	•
SUBJECT TO THE REQUIREMENTS OF	
CONTRACT NO. N62470-81-C-164	4
APPROVAL OF A SUBMITTAL DOES NOT INCL	UDE
APPROVAL OF ANY DEVENTION IN THE TRACT REQUIREMENTS JULIEUS THE SAME	10 C.
TOR CALLS ATTENTION TO SEE GARAGE	J.H.E.
DEVIATION THE CONTRACTOR SHALL BE	
PONSIBLE FOR PROVIDING PROPER PHYSI	
DIMENSIONS & WEIGHTS, COORDINATION TRADES, ETC. AS REQUED.	O.
MAY	22.1
REVIEWER DIVIONAL INTERPRETATION	~~ !
FOR OFFICER IN CHARGE OF CONSTRUCT	ION

"it is hereby certified that the (marked in this submittal, shop dra approved/proposed to be incorp N62470-81-C-1644 is in complian and Specifications and can be in	orated into Contract Drawings
and is:  Approved for use.	•
and the for Govern	ject to Government approved
Authorized Reviewer Signature CQC Rep.	Peace DATE 5-19-86

STEP	TEST		
WELL	#	13	

TIME	STATIC	PUMPING LEVEL	OUMPING RATE
1:15	17'10'1/2"	26'9	100 GPM
1:30		28'1	TT.
1:45		28'7	II .
2:00		28'11	H .
2:30		29'5	u u
3:00		29'7	II.
3:30		29!8	-H
4:00		29'10	π
4:15		36'8	150 GPM
4:30		37'9	n e
4:45		38'7	11
5:00		39'1	11
5:30		39'6	"
6:00		39'11	u u
6:30		39'11	n di
7:00		40'1	11
7:15		45 2	200 GPM
7:30		45'11	H .
7:45		46'3	11
8:00		46'6	п
8:30		46'9	11
9:00		46'11	it.
9:30		46'11	11
10:00		46'11	
10:15		48'1	250 GPM
10:30		48'9	"
10:45		49'2	T .
11:00		49'6	<b>"</b>
12:00		49'11	· ·
12:30		50'1	tr .
1:00		50'1	II .

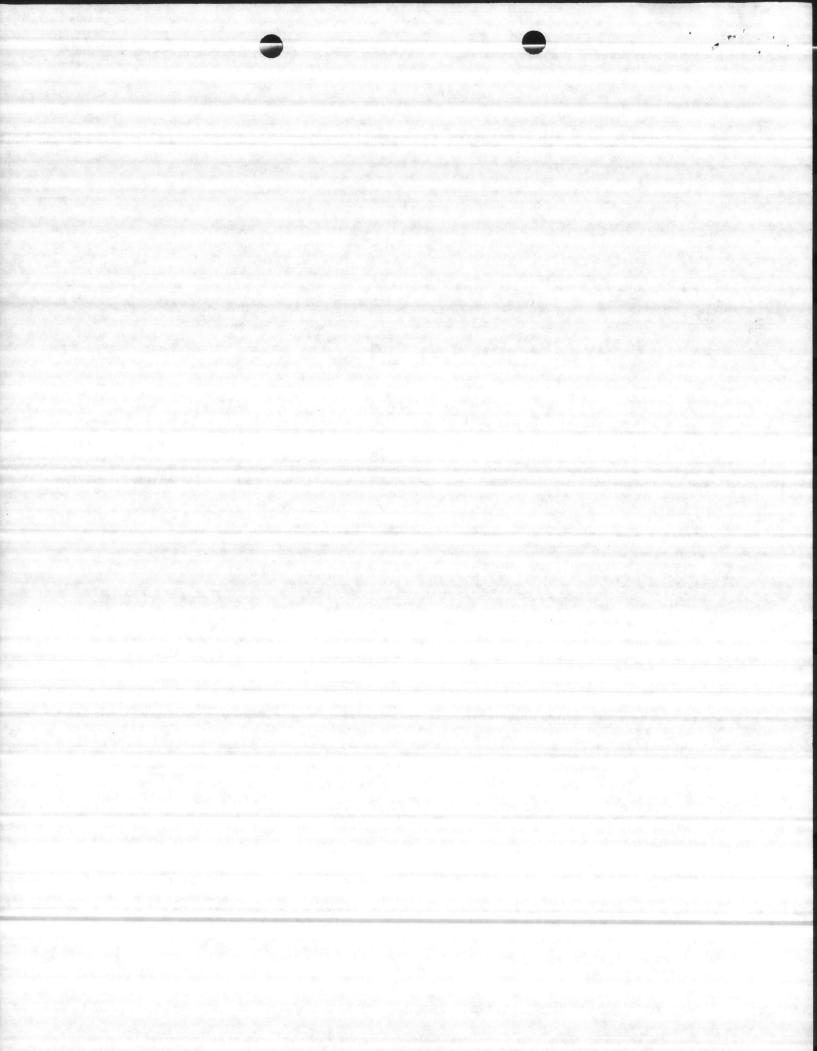


24 HOUR PUMP TEST

## PUMPING RATE 200 GPM

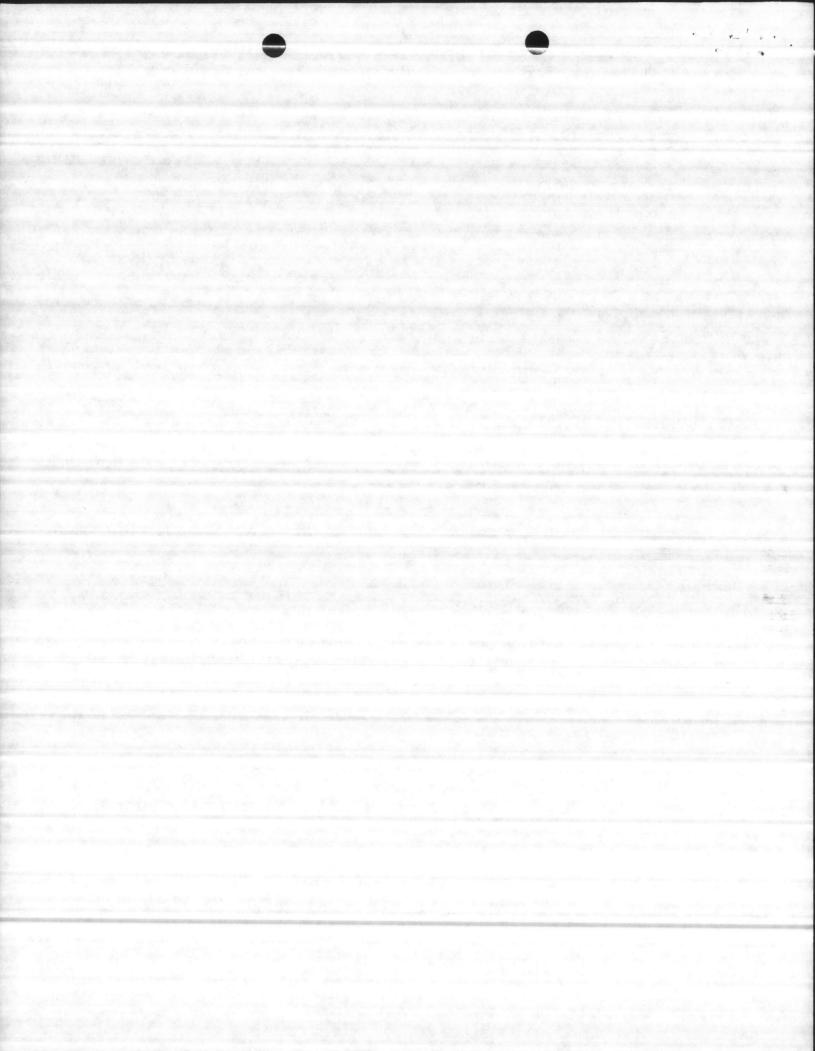
WELL # 13	PUMP SETTING	STATIC
	84'	17'10"
TIME	PUMPING LEVEL	DRAWDOWN
8:01	38'2	20 4
8:02	39'7	1'5
8:03	40'7	1'
8:04	41'3	8 ** ,
8:05	41'11	8"
8:06	42'7	8"
8:07	43'2	7"
8:08	43'9	7"
8:09	43'11	3"
8:10	44'9	6"
8:15	45'2	2"
8:20	45 14	2"
8:25	45'6	2"
8:30	45'7	1"
8:35	45'9	2"
8:40	45'10	1"
8:45	46'2	4"
8:50	46'4	2"
8:55	II .	
9:00	U	
10:00	•	
11:00	•	
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2	HOUR	RECOVERY	TEST
W	ELL #	13	

8:01	25'6
8:02	23'2
8:03	21'11
8:04	20"
8:05	19'9
8:06	19'6
8:07	19'3
8:08	19'2
8:09	18'11
8:10	18'8
8:15	18'3
8:20	18'
8:25	17'10
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8:50	
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10:00	11
11:00	II



MAGETTE WELL & PUMP COMPANY

Item#5

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

May 5, 1986

Lieutenant Kreug Contracting Office Camp Lejeune, North Carolina

Re: Well #13

Dear Sir:

The capacity of this well increased while we were performing the pumping test.

This is not uncommon in wells with shallow stratas, as the pressure is low in these stratas and it is sometimes difficult to fully develop the well with air pressure.

We feel that the test pumping is actually a part of developing the well, because sometimes this process will break loose particles of sand and clay that did not come out while developing with air, which was true in this case.

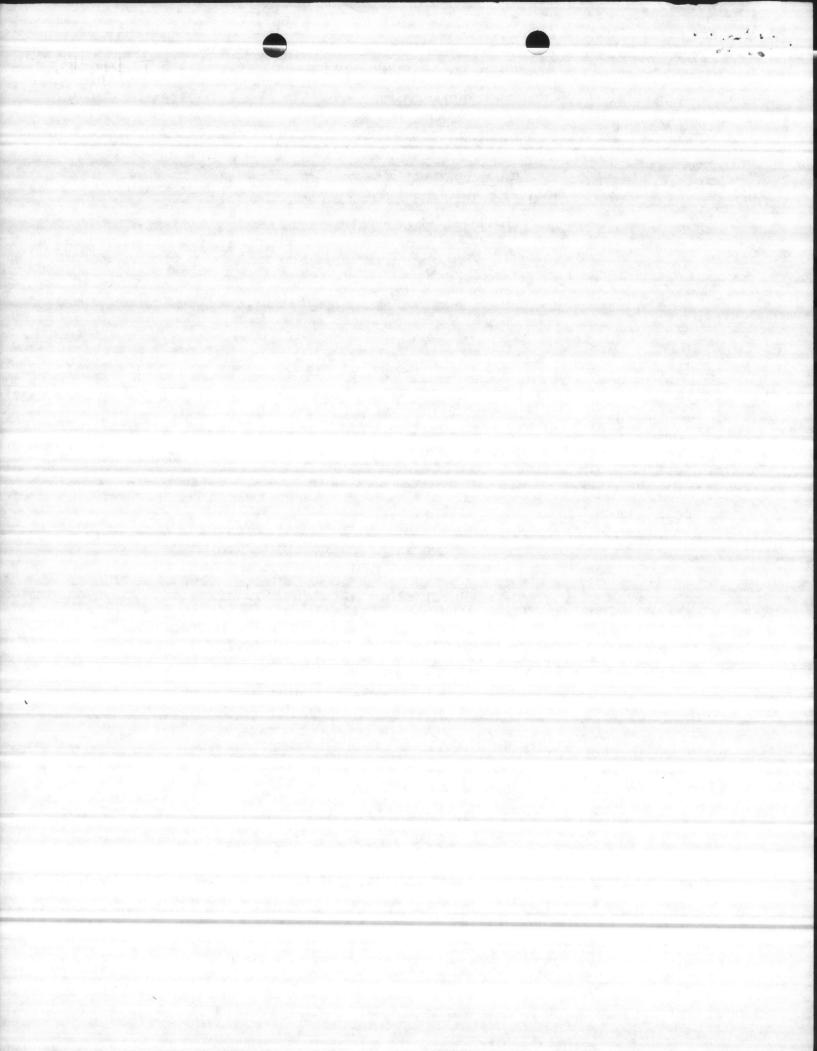
If we can be of further assistance please do not hesitate to contact us.

Sincerely,

FCR Magette Well & Pump Company

Boyd O. Kellogg

BOK:br



01	NTRACTOR'S SL	UBMITTAL TR	ANSMITTAL /		TRACT NO	TRANSM	TTAL NO	DATE 5-10-36
					ECT TITLE AND LOC			
	CONTRACTOR	accordates	- Inc.	To	leomb Blvd	Water Tr	eatment	Plant
-4:	1 10 10 1			1 10			CONTRACTOR OF STREET	
C	ary Von Oeser	n & Associa	ites, Inc.	MC:	D. Co Late	une. Pout		
	10 10 10 10 10 10 10 10 10 10 10 10 10 1		CONTRACTOR USE OF					CTION CODES
]	L Contractor Approved	List only one of the	one specification division following categories or indicate which is being some OICC Approval.	n each transmitt submitted	Deviation	on/Substitution	A-Appro D-Disap AN-App	oved proved proved as noted eipt acknowledged ments
EM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *		(Type, size, model n	TIFICATION o., Míg. name, o e number)		NO. OF	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
=	PROS. BIVO.					1		
	02734	ROTARY DR	HILLED WATER E	TILIS	Will	# 13		
	1.2.1	Shop Draw	ine			7	A	JNS
-	3.1.6	Step Tast				7	A	JRD
1	3.1.6	74 Fort P				7	7	נייד
							A	TN
	7 . 1 . 12	2 non-	ecovery Tear			7	12	11.32
	TRACTOR'S COMMENTS	Sentano.	e Stan Mall 1	were pull	led and te	vlaced pa	z, sany d	magings. A ata
000	reactor's comments; i 34 30er tea at the well i atractor pure s then instr	Sentation Well croing We ware you began pumpl poi at 2500 ucted to co	mand decreens of muddy wat: PM. Contracto another 24 F	were pull mactor was ar and the or was in lour Tump	e advised on cleared structed b	placed parts out to pump a up. She	r, shop deet at I lest two do anoch	Tu3
D O O D	ractor's comments of the Well of the Well of the	Storonos Well coping We ware por began pumpi poi at 1500 ucrad to co ittal # 154	mand dereens aformed. Concrete water suddy water to another 24 E	were pull mactor was ar and the or was im lour Tump A-36.	e advised or cleared structud b Test at 1	placed parts of the pump of th	r, shop deset at lest two do anoth	ma ensuings. A ace 50 GPH. Juring bours of the er stop test.
OP OP	FRACTOR'S COMMENTS  AT THE WALL  OF TRANSMITTAL AND S	Sections: Well cosing we ware per began purpl pel at 7500 ucted to co ittel # 154 submittals to Roice	mand dereens aformed. Concrete water suddy water to another 24 E	were pull mactor was ar and the or was las lour Tump 4-36.	e advised on elcared structud b Test at 1	placed parts of the pump of th	r, shop deet at I lest two do enoch	ma ensuings. A ace 50 GPH. Juring bours of the er stop test.
10 m	ractor's comments of the Well of the Well of the	Storopos  Well coping  We ware por  began pumpl  pel at 7500  mered to co  fetal # 154  submittals to Roice  ICC	mand dereens aformed. Concrete water suddy water to another 24 E	were pull mactor was ar and the or was las lour Tump 4-36.	e advised or elcared structud b Test at 1	placed parts of the pump of th	r, shop deet at I lest two do enoch	recirgs. A ata 50 GPM. Juring bours of the per stop test.
D O B OP OP AT	FRACTOR'S COMMENTS  1 74 HOUT TEA  SE THE WALL  1 THE WALL  1 THE WALL  2 THE WALL  3 THE WALL  4 OF TRANSMITTAL AND SE  5 COPY TO RO!  6 RECEIVED BY REVIEWER	Storonous Mell cosing st ware por began pumpl pel at 7500 uered to co ittel # 154 submittals to Roice ICC	e and dersens and towns. Contracts another 24 Feb. (deted 3-3).	were pull mactor was ar and the or was im lour Tump 2-36.	e advised on cleared structed between the tax and a structor represental Pages on The .	placed parts of the placed parts of the part	z, shop dient at 1 lest two do enoch ats Tran	magings. A according to the stop test.
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## FCR

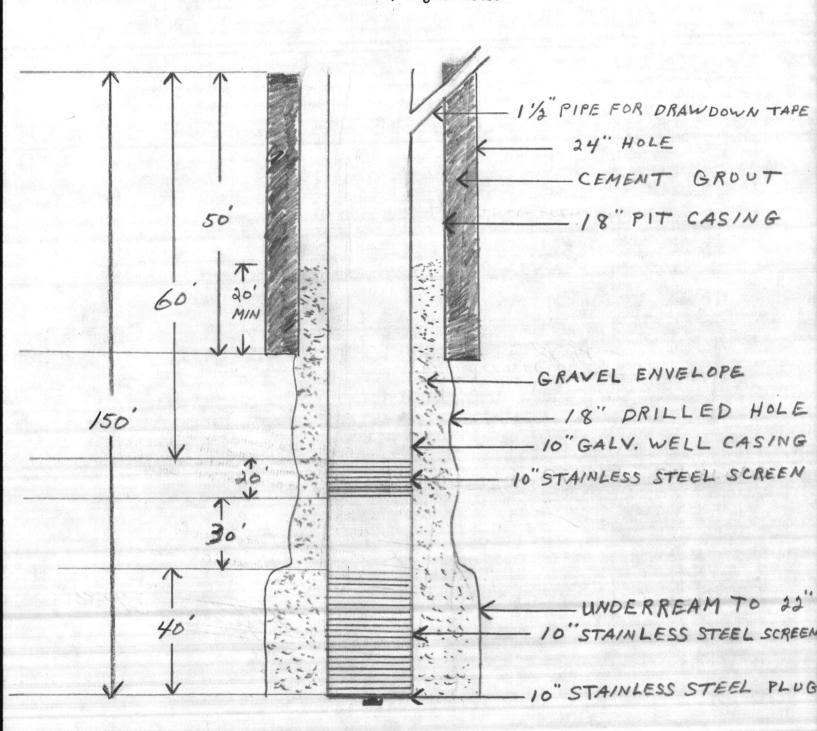
# R. L. MAGETTE COMPANY

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

Serving Tidewater Virginia and Eastern North Carolina

WELL #13

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



ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511 APPROVED\_V 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 OSCIATION FROM THE CON-TRACT REQUESS EDETS SELESS THE CONTRAC-TOR CALLS ATTENTION TO AND SUPPORTS THE PONSIBLE FOR PROVIDING PROPER PHYSICIAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., REVIEWER AND SWAME MEDY 22 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 Drawings 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 subject to Government approval.

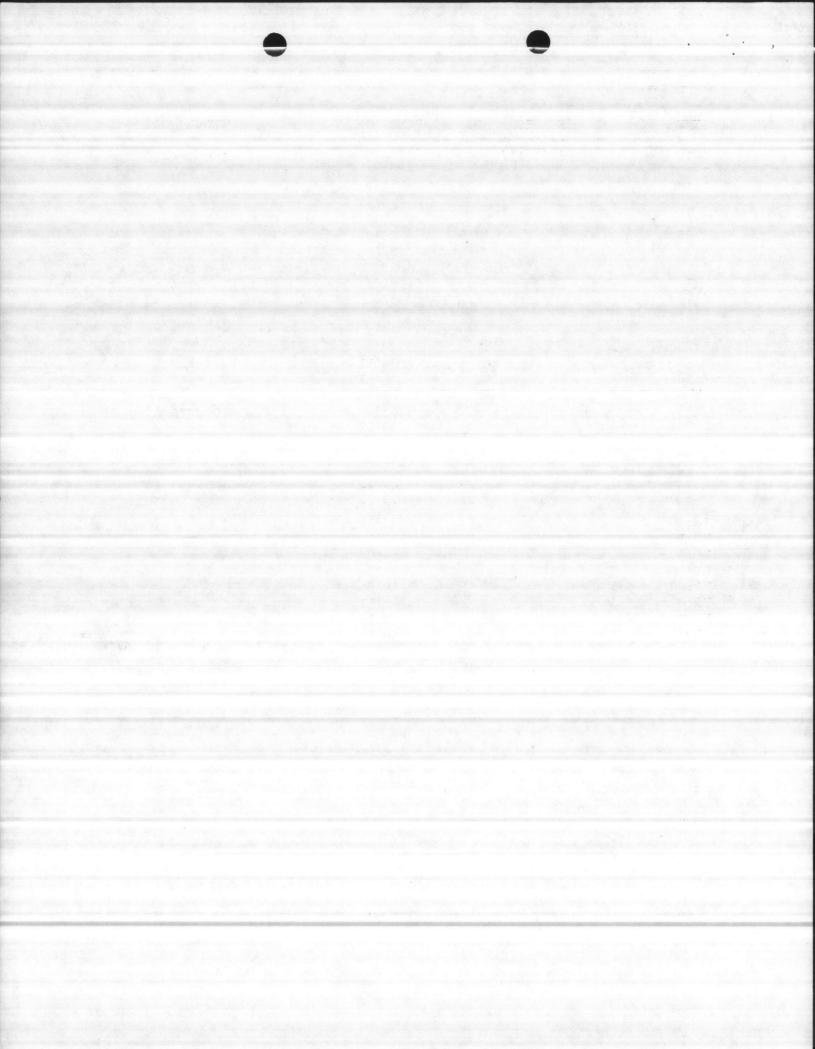
Approved for use subject to Government approval of specific deviation.

Authorized Reviewer

Signature CQE Rep

STEP	TI	EST
WELL	#	13

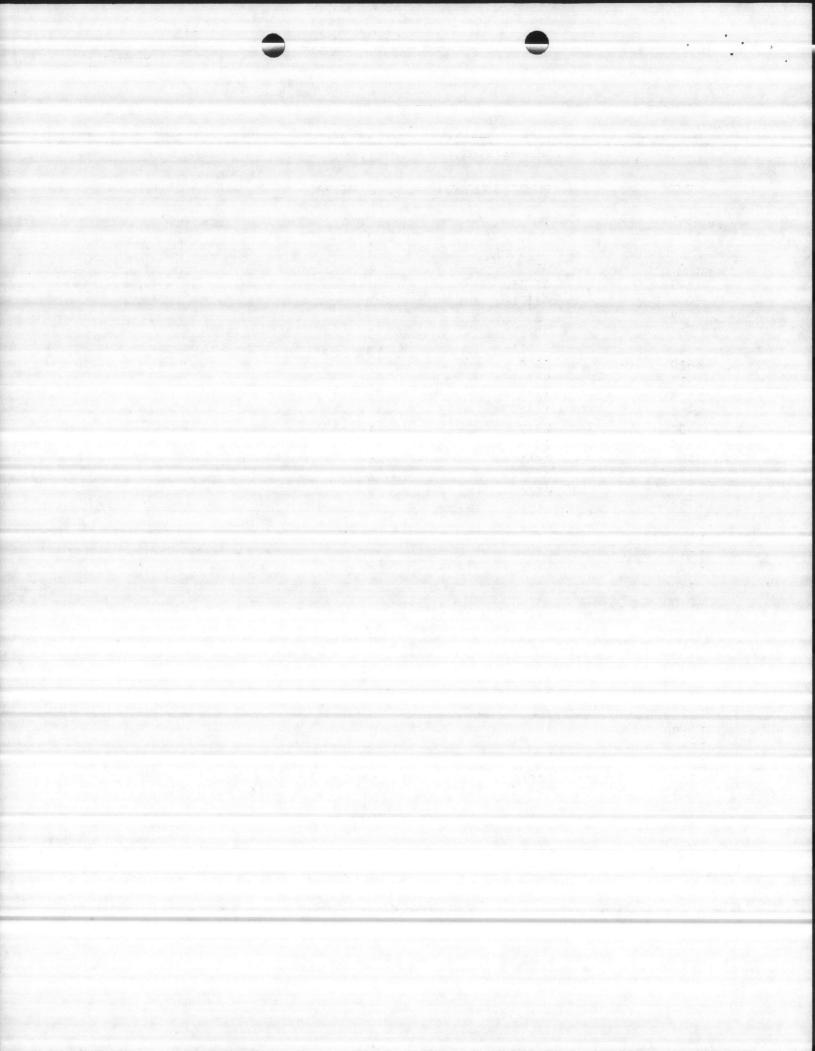
TIME	STATIC	PUMPING LEVEL	PUMPING RATE
1:15	17'10:1/2"	26'9	100 GPM
1:30		28'1	11
1:45		28'7	11
2:00		28'11	and the second second
2:30		29'5	11
3:00		29'7	II.
3:30		29'8	II .
4:00		29'10	<u> </u>
4:15		36'8	150 GPM
4:30		37'9	IJO GIN
4:45		38'7	II .
5:00		39'1	11
5:30		39'6	III
6:00		39'11	n e
6:30		39'11	11
7:00		40'1	II .
7:15		45'2	200 GPM
7:30		45'11	200 GFM
7:45		46'3	"
8:00		46'6	11
8:30		46'9	11
9:00		46'11	11
9:30		46'11	11
10:00		46'11	11
10:15		48'1	250 GPM
10:30		48'9	250 GPM
10:45		49'2	11
11:00		49'6	
12:00		49'11	п
12:30		50'1	II .
1:00		50'1	
1:00		20.1	



24 HOUR PUMP TEST

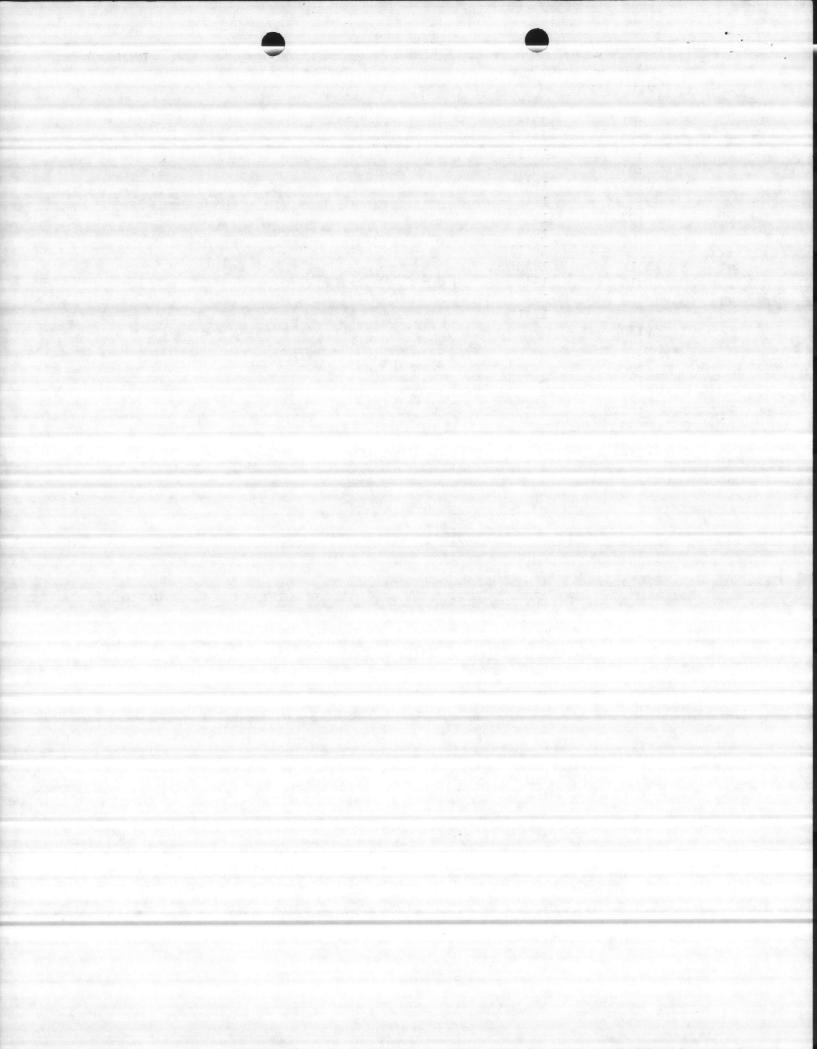
## PUMPING RATE 200 GPM

WELL # 13	PUMP SETTING 84'	STATIC 17'10"
T IME	PUMPING LEVEL	DRAWDOWN
8:01	38'2	20'4
8:02	39'7	1'5
8:03	40'7	1'
8:04	41'3	8**
8:05	41'11	8"
8:06	42'7	8"
8:07	43'2	7"
8:08	43'9	7''
8:09	43'11	3"
8:10	44'9	6"
8:15	45'2	2"
8:20	45'4	2"
8:25	45'6	2"
8:30	45'7	1"
8:35	45'9	2"
8:40	45'10	1"
8:45	46'2	4"
8:50	46'4	2"
8:55	II .	
9:00		<u> </u>
10:00		
11:00		
12:00	•	
1:00		-
2:00		
3:00 4:00	,,	7
5:00	n e	
6:00	and the acceptance of the contract of the cont	
7:00	46'5	1"
8:00	40 3	. 1
9:00	II.	
10:00	,,	
11:00	n .	
12:00	11	
1:00	46'6	1"
2:00	"	_
3:00	11	
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5:00	11	
6:00	11	
7:00	TI TI	
8:00	11	-



2	2 HOUR		RECOVERY	TEST	
W	ELL	#	13		

8:01	25'6
8:02	23'2
8:03	21'11
8:04	20"
8:05	19'9
8:06	19'6
8:07	19'3
8:08	19'2
8:09	18'11
8:10	18'8
8:15	18'3
8:20	18'
8:25	17'10
8:30	11
8:35	11
8:40	11
8:45	n n
8:50	
8:55	"
9:00	11
10:00	
11.00	- 11



FCR

MAGETTE WELL & PUMP COMPANY

Item#5



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

May 5, 1986

Lieutenant Kreug Contracting Office Camp Lejeune, North Carolina

Re: Well #13

Dear Sir:

The capacity of this well increased while we were performing the pumping test.

This is not uncommon in wells with shallow stratas, as the pressure is low in these stratas and it is sometimes difficult to fully develop the well with air pressure.

We feel that the test pumping is actually a part of developing the well, because sometimes this process will break loose particles of sand and clay that did not come out while developing with air, which was true in this case.

If we can be of further assistance please do not hesitate to contact us.

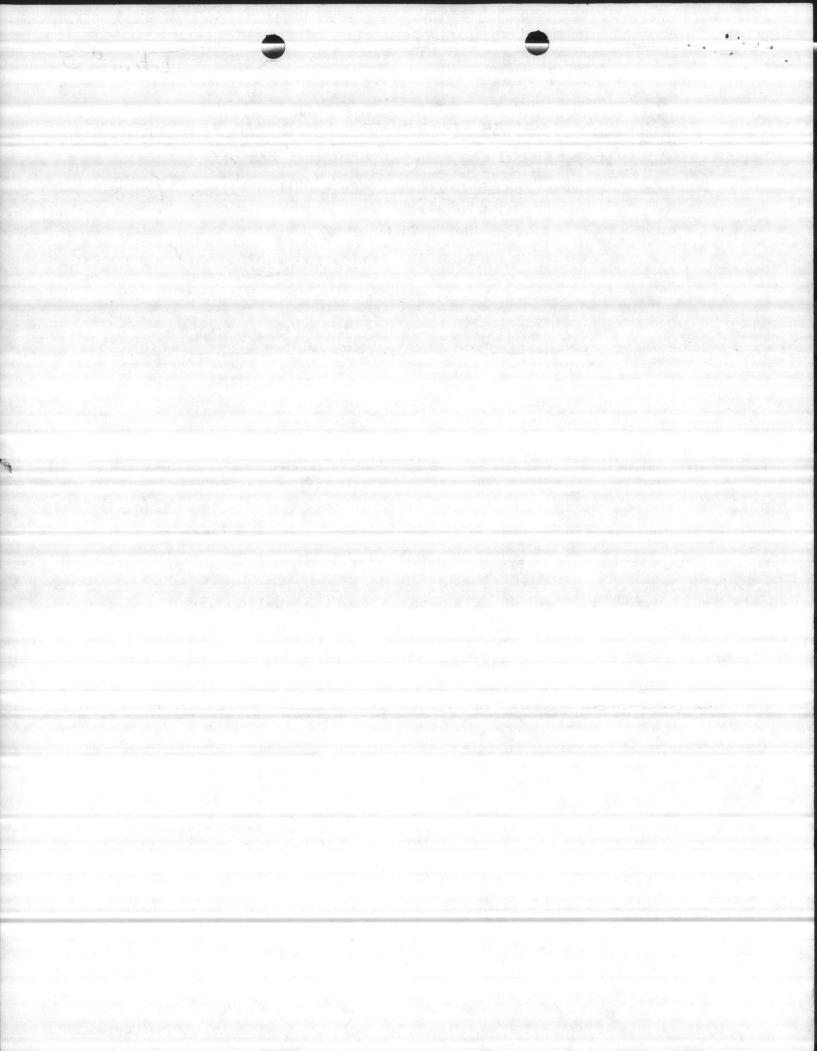
Sincerely,

FCR Magette Well & Pump Company

Boyd C. Kellegg

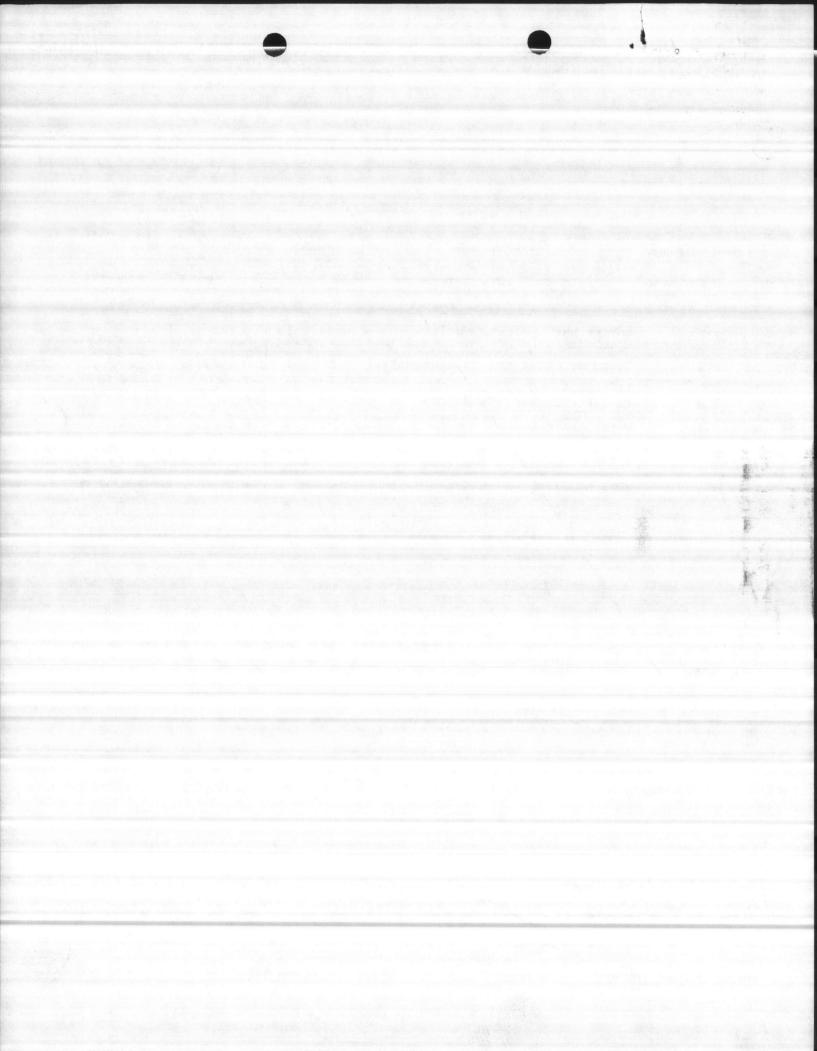
Boyd O. Kellogg

BOK:br

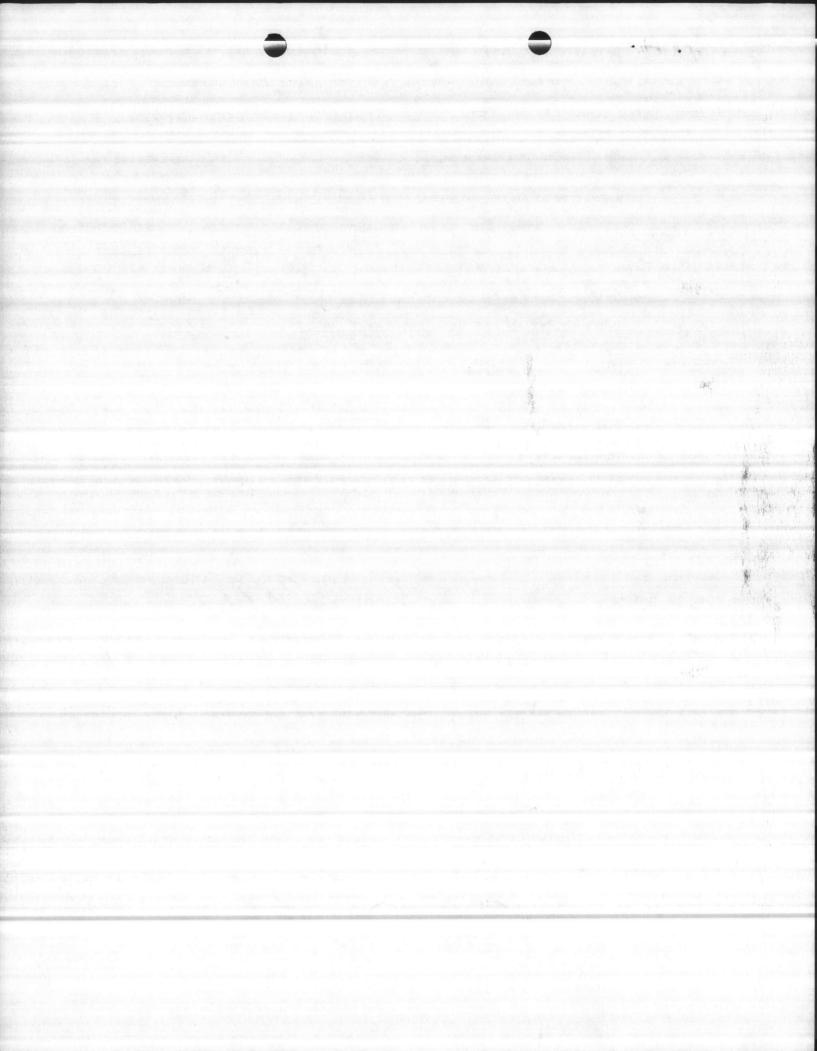


Hunt

	UBMITTAL TI	RANSMITTAL	CONTRACT NO	TRANSMIT	TAL NO	DATE
LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)			81-C-1644	1.5	4-A	3-14-86
FROM CONTRACTOR				PROJECT TITLE AND LOCATION		
Harry Pepper	& Associat	es, Inc.	holcomb Blvd W	atur Tr	estment	Plant
Henry You Oa	sen & Assoc	iates, Inc.	MCB, Cp Lejeun	e, Nort	h Carol	ina
Contractor Approved	List only one of the	y one specification division per following categories on each indicate which is being submitted.  OICC Approval	ch transmittal form, nitted Deviation/Su	- 1	A-Appr D-Disap AN-App RA-Red C-Com	oproved proved as noted ceipt acknowledged. ments
PROJ. SPEC. SECT.	T	ITEM IDENTIFI (Type, size, model no., M	tig. name, dwg. or	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DAT
& PARA. and/or PROJ. DWG. NO.		brochure nu				CODE AND DATE
02734	ROTARY DE	RILLED WATER WELL	LS Well # 1	3		1
2.2.4	Recommend	lation and Data	Latitedu	7	A	29
2.2	briller's			7	A	MB
2.2.3		Log and Gamma La	og #	7		mil
2.2.2	Water And	Llysia			A	(10)
5 2.2.2	Sieve Ans	elwais.		7	A	1/1/15
3 4.4.4	278A8 1414	az yaza			-	1
5 1.2.1	Shop Draw	vings		7	A	ars
5 1.2.1 ONTRACTOR'S COMMENTS MATER Sample f	Shop Draw	vings included.	LCONTRACTOR REPRESENTATION		A	ars
ONTRACTOR'S COMMENTS VALOR SEMPLE E	Shop Draw	vings included.	CONTRACTOR REPRESENTATU Phil Reese		A	als
OPY OF TRANSMITTAL AND	Shop Draw or 135 ' is submittals to Roic ICC:	rings Included.  C FROM (Reviewer)	Phil Reesa (		A See.	ans
ONTRACTOR'S COMMENTS  VALUE SEMPLE E  COPY OF TRANSMITTAL AND  DRIE COPY TO BO  DATE RECEIVED BY REVIEWE  3/17/86	Shop Draw or 135 ' is submittals to Roic ICC:	FROM (Reviewer)	Phil Reese (	VE (Signayo)	A	ans the second s
ONTRACTOR'S COMMENTS  WATER SEMPLE I  COPY OF TRANSMITTAL AND  DATE RECEIVED BY REVIEWE  3/17/86  Submittals are returated to rector calls attenti	Shop Draw or 135 ' 1a  SUBMITTALS TO ROIC ICC:  R  med with action ind on to and supports	FROM (Reviewer) Henry von Casen icated Approval of an item do the deviation.	Phil Reesa (	ve (signatura)	A Sc.L.	
COPY OF TRANSMITTAL AND ONE COPY TO RODATE RECEIVED BY REVIEWE 3/17/86  Submittals are returated tractor calls attention.	Shop Draw or 135 ' 1a  SUBMITTALS TO ROIC ICC:  R  med with action ind on to and supports	FROM (Reviewer) Henry von Casen icated Approval of an item do the deviation.	E ASSOC., Inc. To bes not include approval of any devi	ve (signatura)	A Sc.L.	
COPY OF TRANSMITTAL AND DATE RECEIVED BY REVIEWE 3/17/86  Submittals are return transmittal form.	Shop Draw or 135 ' 1a  SUBMITTALS TO ROIC ICC:  R  med with action ind on to and supports	FROM (Reviewer) Henry von Casen icated Approval of an item do the deviation.	E ASSOC., Inc. To bes not include approval of any devi	ve (signatura)	A Sc.L.	
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ONTRACTOR'S COMMENTS  WATER SEMPLE I  COPY OF TRANSMITTAL AND  DATE RECEIVED BY REVIEWE  3/17/86  Submittals are returated transmittal form.	Shop Draw or 135 ' 1a  SUBMITTALS TO ROIC ICC:  R  med with action ind on to and supports	FROM (Reviewer) Henry von Casen icated Approval of an item do the deviation.	E ASSOC., Inc. To bes not include approval of any devi	ve (signatura)	A Sc.L.	

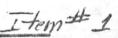


		UBMITTAL TRANSMITTAL	CONTRACT NO	TRANSM	TTAL NO	DATE
		1355/3 (Rev. 11-80)	Holcomb Rivi II	ter	Trantmar	t Plant
FRO	M CONTRACTOR		PROJECT TITLE AND LOCATION			
10	Henry Von Oes	sen & Associates, Inc.	MCB, Cp Lejeuad	e, No	rth Care	lima
		CONTRACTOR USE ONLY			REVI	EWER USE ONLY
17.5	5.75 - 5.75 A. 17 A. 16 C. 14	List only one specification division per I	form.	1. H. J. L.		CTION CODES
O	L Contractor Approved	ist only one of the following categories on each tr and indicate which is being submitted OICC Approval	d Deviation/Substi		A-Appro D-Disag AN-App RA-Rec C-Comi	oved  proved  proved as noted  eipt acknowledged  ments
ESS NO	PROJ. SPEC. SECT.	ITEM IDENTIFICAT	name, dwg. or	NO. OF	ACTION CODES	REVIEWER'S
<u> </u>	2.2.4	ROTARY DRILLED WATER SPRING		20	$\cap$	CODE AND DATE
	Charles and the second			31.5		
- 2	2.2	Driller's Log	并分类的中国有其的VSI	7		
د	2.2.3	Electric Log and Gamma Log		7	A	
4	2.2.2	- Water Analysia		7		enter de la companya
-5	2,2,2	Sieve Analysis		7		
	1 9 7	Shop Drawings			3.0	
. 2.						
CON	TRACTOR'S COMMENTS				1	
OF OF	DE TRANSMITTAL AND SUI	ECC BMIYTALS TO HOICC	CONTRACTOR REPRESENTATIVE &	Vicinity of	<u>)</u>	
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Ø	Submittals are returne tractor calls attention	d with action indicated. Approval of an Item does no to and supports the deviation.	STATE OF THE PARTY	from th		THE RESERVE TO SERVE THE
	Submittals are forward transmittal form.	ded to LANTDIV with A-E recommendations indicate	ed in REVIEWER USE ONLY Section	on and ir	comments be	low on ONE COPY of the
REVIE	EWER'S COMMENTS					
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				4-12-16		K. William Commercial
	ES TO OICC (2)	DAYE	SIGNATURE	i di		
L	ANTDIY (1) -E (1)	1/28/86	Moun	374	-7	





## HARRY PEPPER & ASSOCIATES, INC.



ENGINEERING CONTRACTORS

January 23, 1986

Henry Von Oesen 611 Princess Street Wilmington, NC 28402

RE: N62470-81-C-1644
Expansion of Holcomb Blvd
Water Treatment Plant
Camp Lejeune, NC 28542
Well # 13

### 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 ft. Water samples were taken at 90 Ft.

We recommend a .030 slot stainless steel screen set at 84' - 104' and at 125' - 145' depth for a total of 40 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.

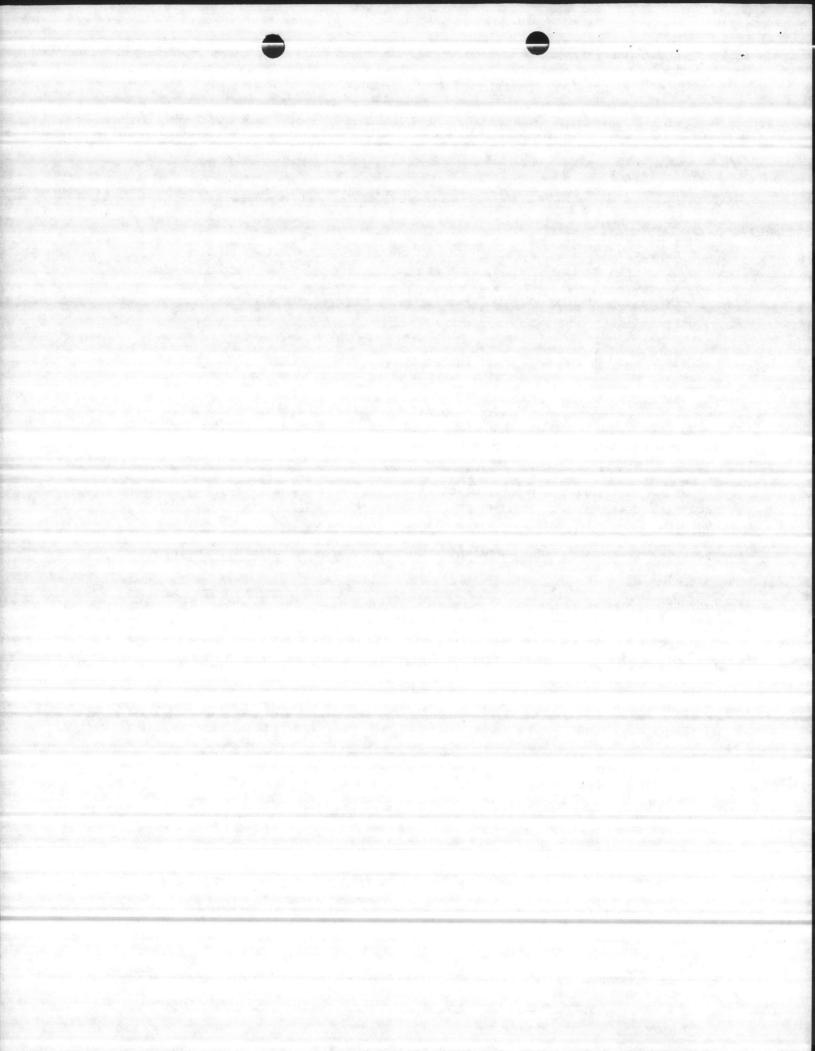
Very truly yours, HARRY PEPPER & ASSOCIATES, INC.

Phil Keese CQC Officer

Enclosures

N62470-8	proposed to be incorporated into Contract Number 11-C-1644 is in compliance with the Contract Drawings iffications and can be installed in the allocated space,
	Approved for use.
K	Submitted for Government approval.
	Approved for use subject to Government approval of specific deviation.
Authorized	Reviewer
ignature	COC Rep. This fees DATE 1-23-86

is hereby certified that the (material) (equipment) shown and



## DRILLERS LOG CAMP LEGEONE WELL #15

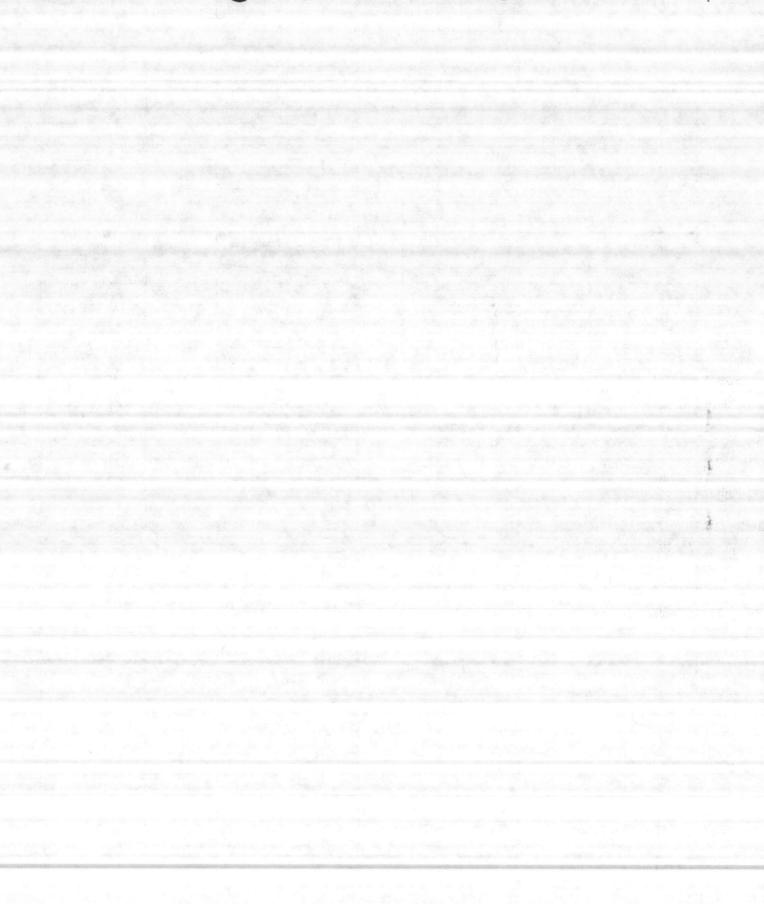
### DEPTH OF SAMPLE

0 - 10 FT. 10 - 50 FT. 50 - 65 FT. 65 - 60 FT. 80 - 105 FT. 105 - 170 FT. 170 - 205 FT.

205 - 250 FT.

TUPSOIL, WHITE SAND AND WHITE CLAY
GRAY CLAY
SRAY CLAY AND FINE SAND
GRAY CLAY AND LIMESTONE
LIMESTONE
LIMESTONE AND WHITE CLAY
LIMESTONE AND GREEN CLAY
GREEN CLAY AND FINE SAND





LAND BY COMMINANY Consulting and Ansighout Chamists Item # 4

ESTABLISHED 1903

Main Office :711 Castle Street P.O. Box 629 Wilmington, N.C. 28402

11-12-85 REPORT DATE:

HICHARD SPIVEY President 919 762 7082 914 762 8956 TWX 510 937 0280

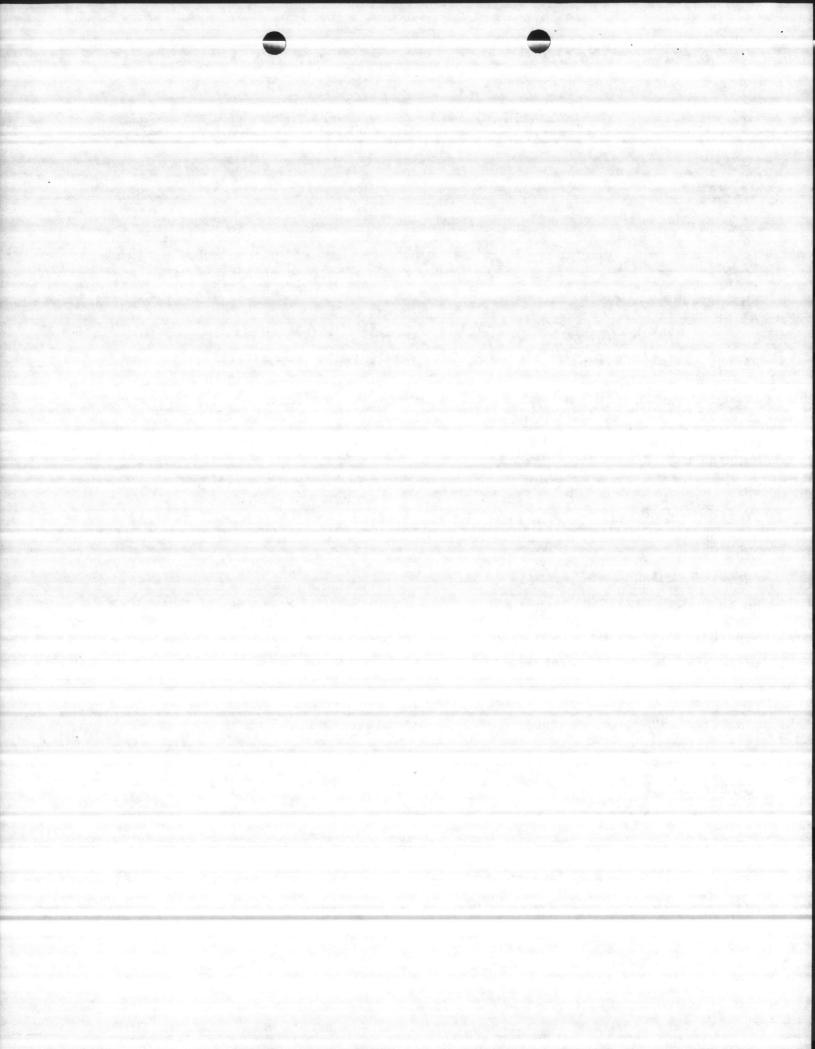
MAJETTE WELL & PUMP CO P. O. BOX 908

SMITHFIELD, VA 23430 ATTN: BUD KELLOG

DATE COLLECTED: 10-02-85 DATE RECEIVED: 10-03-85 COLLECTED BY: CUSTOMER EW 9688 LAB ION

WELL #13 80'-90' SAMPLE DESCRIPTION:

TESTS/UNITS			RESULTS
DISSOLVED OXYGEN	(MG/L)		6
TEMPERATURE			19.5°C
рН			. 8.0
CARBON DIOXIDE	(PPM)	anna a sangan sa garang	0
SULFIDES	(PPM)		0
CHLORINE DEMAND	(PPM)		.8
COLOR	(APHA)		85
TURBIDITY	(NTU)		.75
TOTAL ALKALINITY	(PPM)		190
HYDROXIDE	(PPM)		0
BICARBONATE	(PPM)		168
CARBONATE	(PPM)		22
TOTAL HARDNESS	(PPM)		135
NON- CARBONATE	(PPM)		0
CARBONATE	(PPM)		135
TOTAL DISSOLVED SOLIDS	(PPM)		190
CONTINUED			



## Consulting and Analytical Chamists

ESTABLISHED 1901

Main Office 1 · 1 Castle Street r.O. Box 629 Wilnington, N.C. 28402 11W 2010 11 President

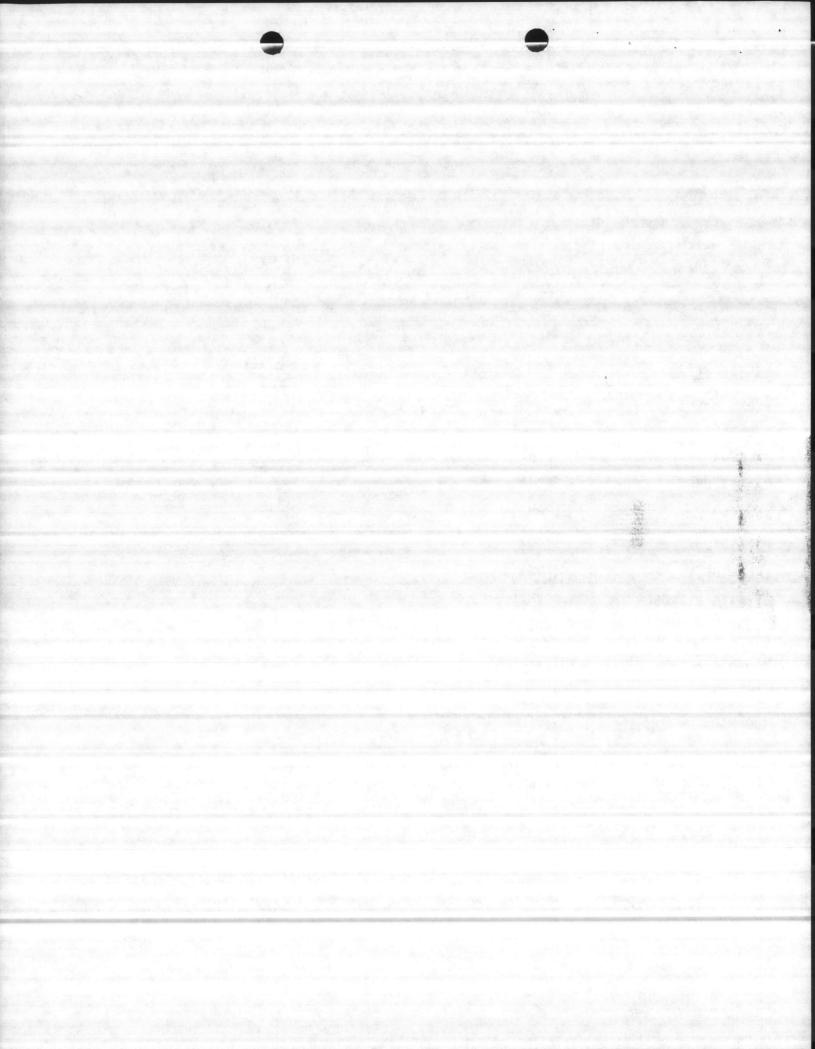
TESTS/UNITS		RESULTS
SPECIFIC CONDUCTANCE	(UMHOS)	420
SULFATES	(PPM)	.16
CALCIUM	(PPM)	. 43
MAGNESIUM	(PPM)	1.8
SODIUM	(PPM)	14.0
POTASSIUM	(PPM)	.8
CHLORIDE	(PPM)	96
NITRATE NITROGEN	(PPM)	· <b>‹.2</b>
IRON	(PPM)	.18
MANGANESE	(PPM)	<.015
SILICON	(PPM)	5.9
FLOURIDE	(PPM)	<.2

CHEMIST

Dolly Bidwan

TOTAL CHARGES:

\$180.00



'ACT ...-PHONE .-RKS...-MMENDATIONS: EL SIZE ... EN SIZE\_\_\_\_

SCREEN COMPANY

.A Halliburton Company P.O. Box 566 . Houston, Texas 77001 713-869-5771 • Telex: 77-4567

COMPANY ... R.L. MAGETTE COMPANY

WELL.....13

DEPTH.....65-85

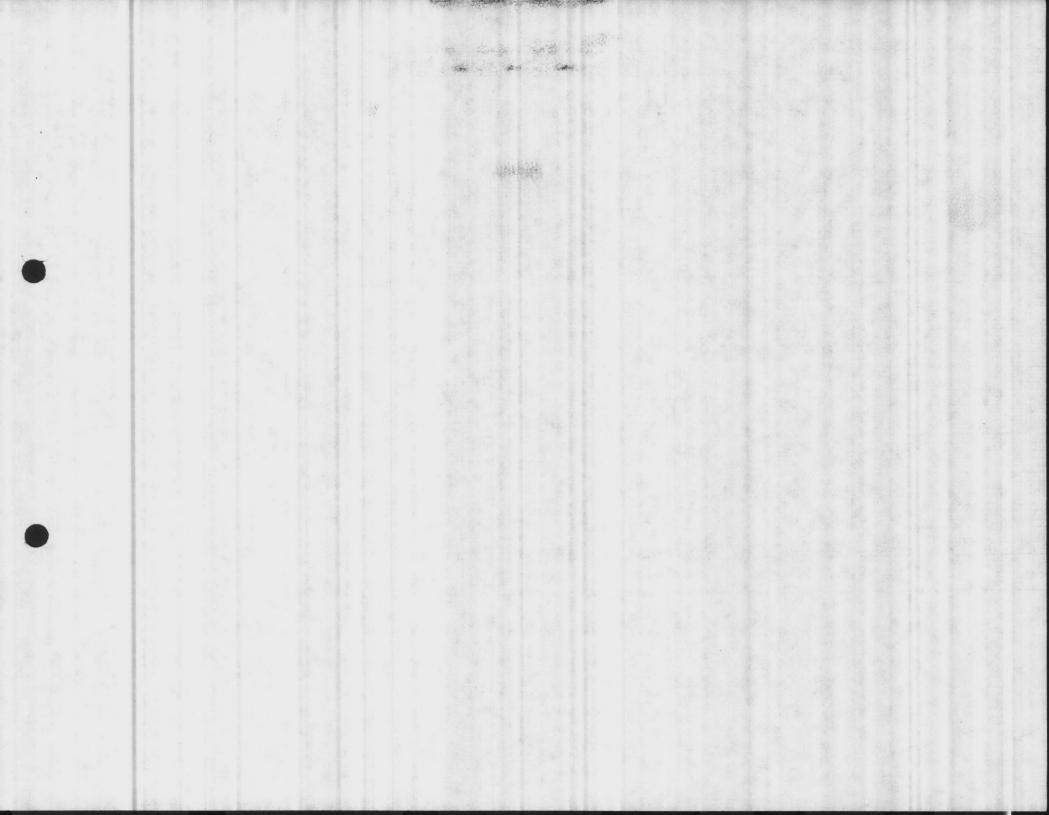
FIELD....-

COUNTY ...-

STATE.....VA

## SIEVE ANALYSIS REPORT

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NTACT...LEPHONE.MARKS...COMMENDATIONS:
AVEL SIZE

REEN SIZE\_

HOWARD SMITH SCREEN COMPANY

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

SIEVE ANALYSIS REPORT

Item #5

COMPANY ... R.L. MAGETTE COMPANY

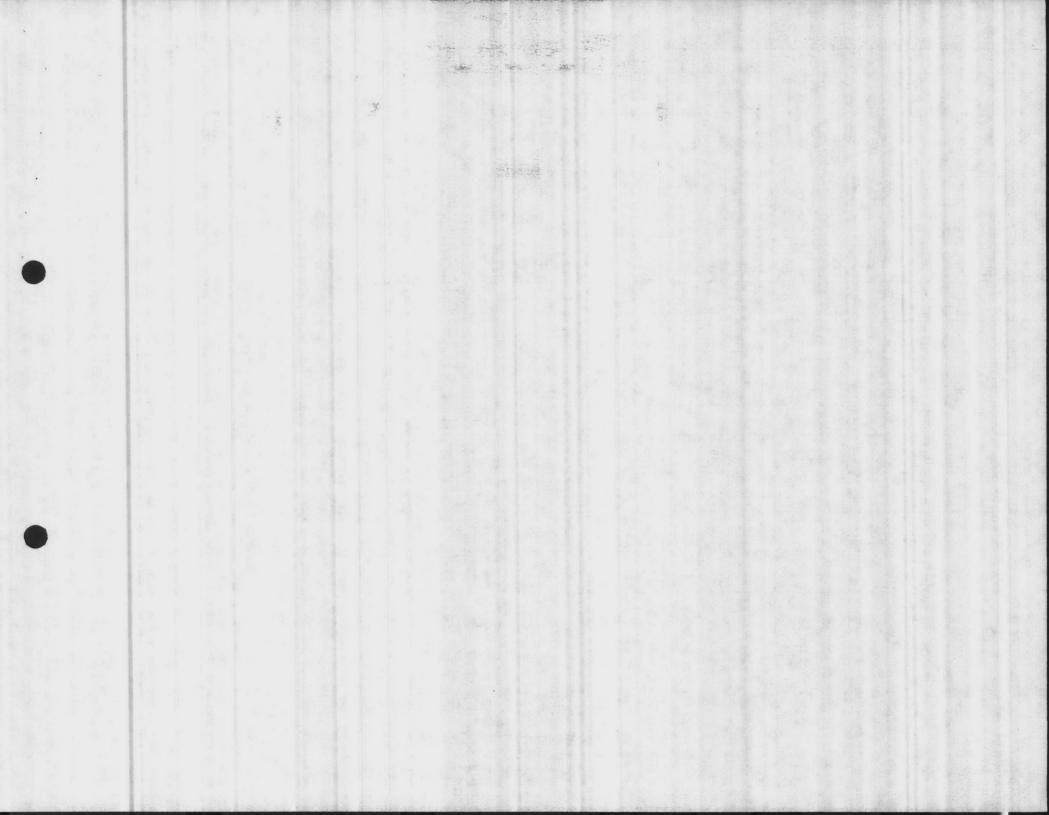
WELL.....13

DEPTH....115-145

FIELD....-

STATE....VA

							The second secon					
JS			WT	CUM	CUM	90	GRANULE	COARSE SAND	MEDIUM SAND	FINE SAND	VERY FINE	SILT AND FINER
EVE	IN	MM	RET	WT	%	100.	111111111	*****************		141111111111111		
10	.0787	2.000				. 90					1 1000 1000 1000 1000	
18	.0394	1.000						hinkantontititihiiiini			1 1 10001111111111111111111	
20	.0331	0.840				80						111111111111111111111111111111111111111
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40	.0165	0.420	0.2	1.1	12.8		HHHHHH		111111111111111111111111111111111111111		1 1 10000000000000000000000000000000000	)
45	.0139	0.351	0.4	1.5	17.4	60	11111111				1 1 10000000000000000000000000000000000	
50	.0117	0.297	0.5	2.0	23.3		Eiitii ii ii ii	111111111111111111111111111111111111111				
60	.0098	0.250	0.9	2.9	33.7					11111/1111111	The state of the s	116111111111111111111111111111111111111
70	.0083	0.210	1.0	3.9	45.3	50	MANUAL SANDERS COMMUNICATION OF THE PROPERTY OF THE PARTY	TO THE RESIDENCE OF THE PARTY O	1	Chicago and Chicag	THE RESIDENCE OF THE PROPERTY	とは他のなかになるというなどは、自然の情報はないできたが
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1							8 10 12-20 ]	16-30 20-40	40-60	- 50-70		



FCR

## R. L. MAGETTE COMPANY

WATER SUPPLY CONTRACTORS DOMESTIC: INDUSTRIAL: MUNICIPAL

Wells, Pumps and Community Water Systems

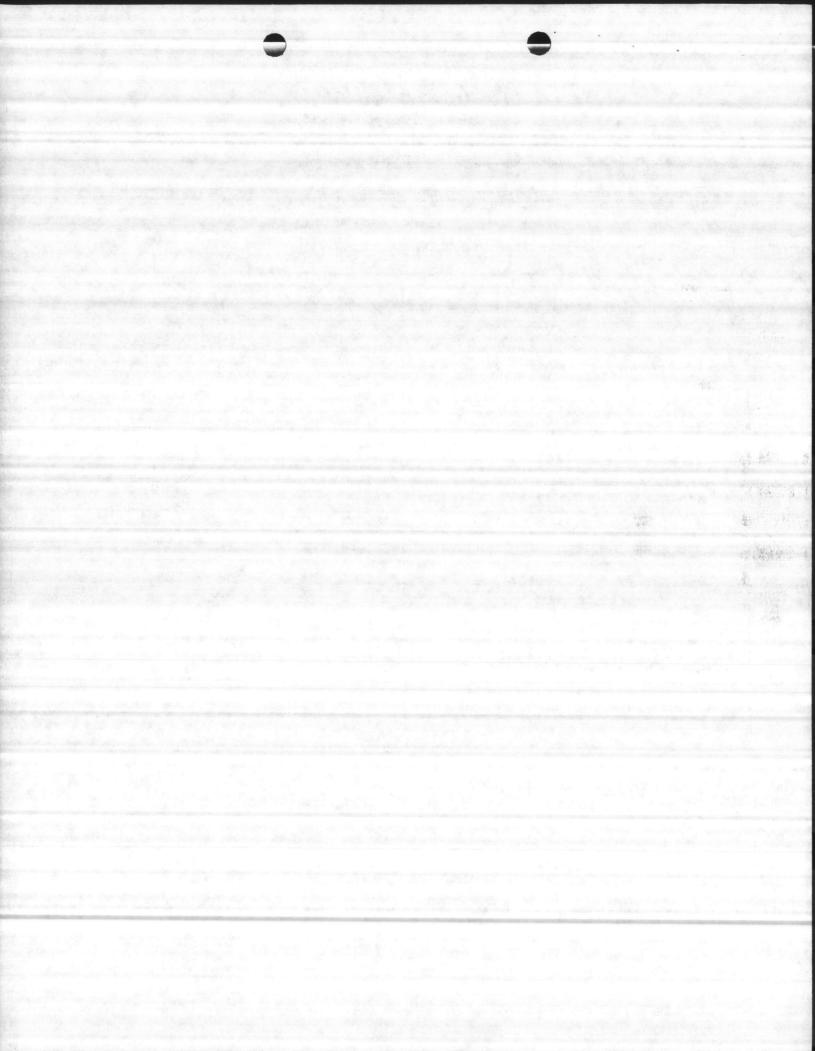
Item# 6

Serving Didewater Virginia and Eastern North Carolina .....

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

Smithfield. Virginia 23430

VELL #13 1 1/2 PIPE FOR DRAW DOWN TAPE 24" HOLE CEMENT GROUT 50 18" PITCASING 104 84 DRILLED HOLE 125 UNDENREAM TO 33 10" SS SCREEN = GRAVEL ENVELOPE 10" GALV CASING UNDER REAM TO 20 10" 55-501511 SS PLUG



## Consulting and Analytical Chemists

ESTABLISHED 1903

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

REPORT DATE: 3-11-86

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:

2-26-86

DATE RECRIVED:

2-26-86

COLLECTED BY:

CUSTOMER

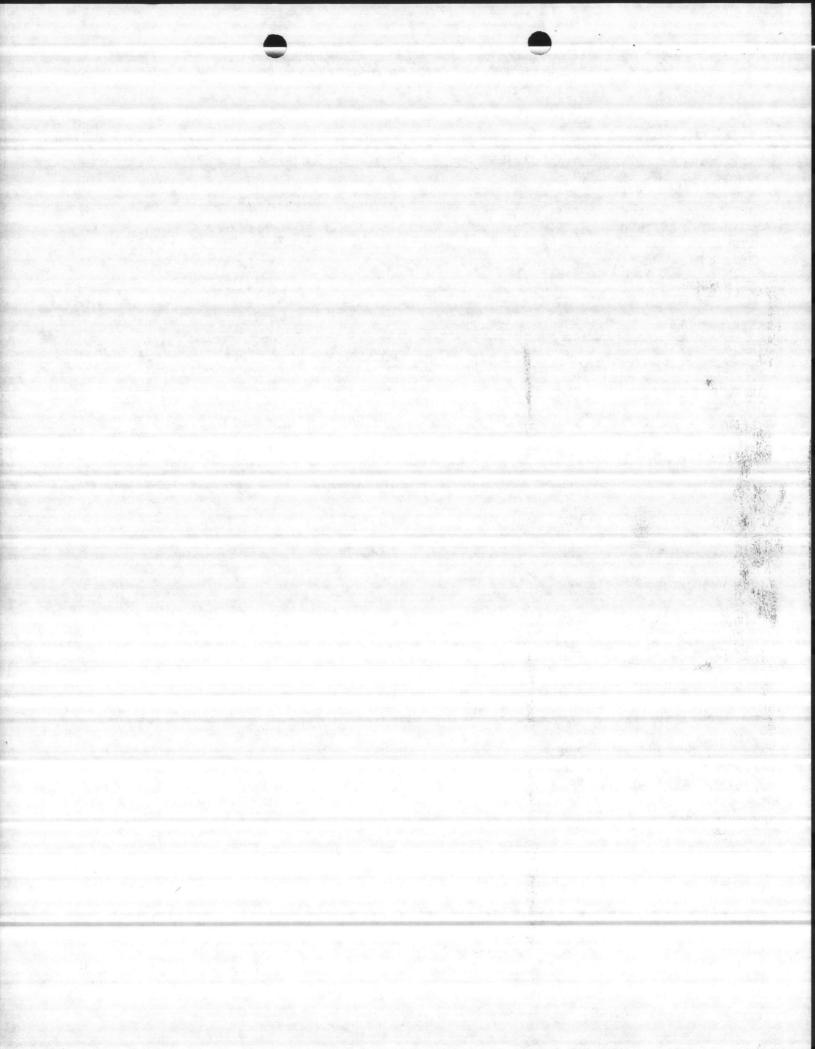
LAB I.D.#

EW 3507

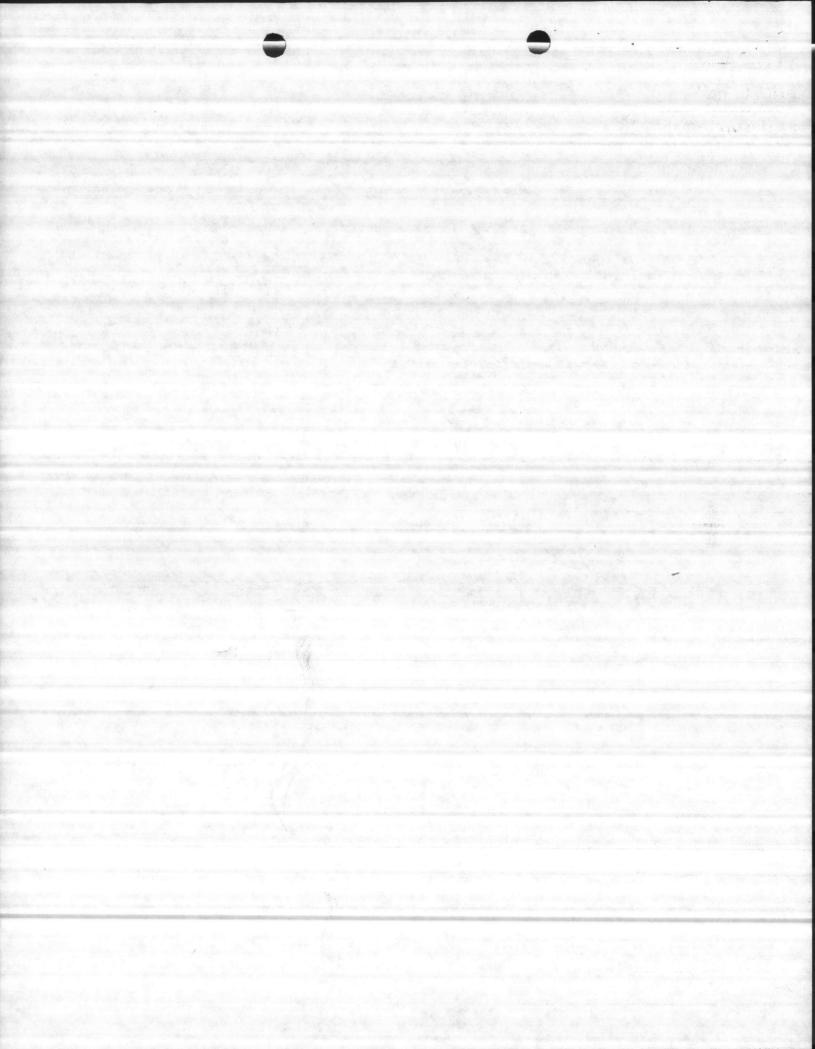
SAMPLE DESCRIPTION:

WELL# 13 @ 135feet

TESTS/SAMPLES		RESULTS			RESULTS
рН		7.8	POTASSIUM	PPM	1.6
CARBON DIOXIDE	РРМ	0	CHLORIDE	PPM	34
SULFIDES	PPM	10	NITRATE NITROGEN	РРМ	<.2
CHLORINE DEMAND	PPM	1.8	IRON	PPM	<.00025
COLOR	АРНА	10	MANGANESE	PPM	0.03
TURBIDITY	NTU	5.7	SILICON	PPM	2.1
TOTAL ALKALINITY	PPM	144	FLOURIDE	PPM	<.2
HYDROXIDE	PPM	0			
BICARBONATE	PPM	130			
CARBONATE	PPM	14			
TOTAL HARDNESS	PPM	88.			
NON-CARBONATE	PPM	0			
CARBONATE	PPM	88			
TOTAL DISSOLVED SOLIDS	PPM	207			
SPECIFIC CONDUCTANCE	UMHOS	255			
SULFATES	PPM	4			
CALCIUM	PPM	41			
MAGNESIUM	PPM	1.5			000 8 ( - )
SODIUM	PPM	7.2		TOTAL O	CHARGES: 180.00



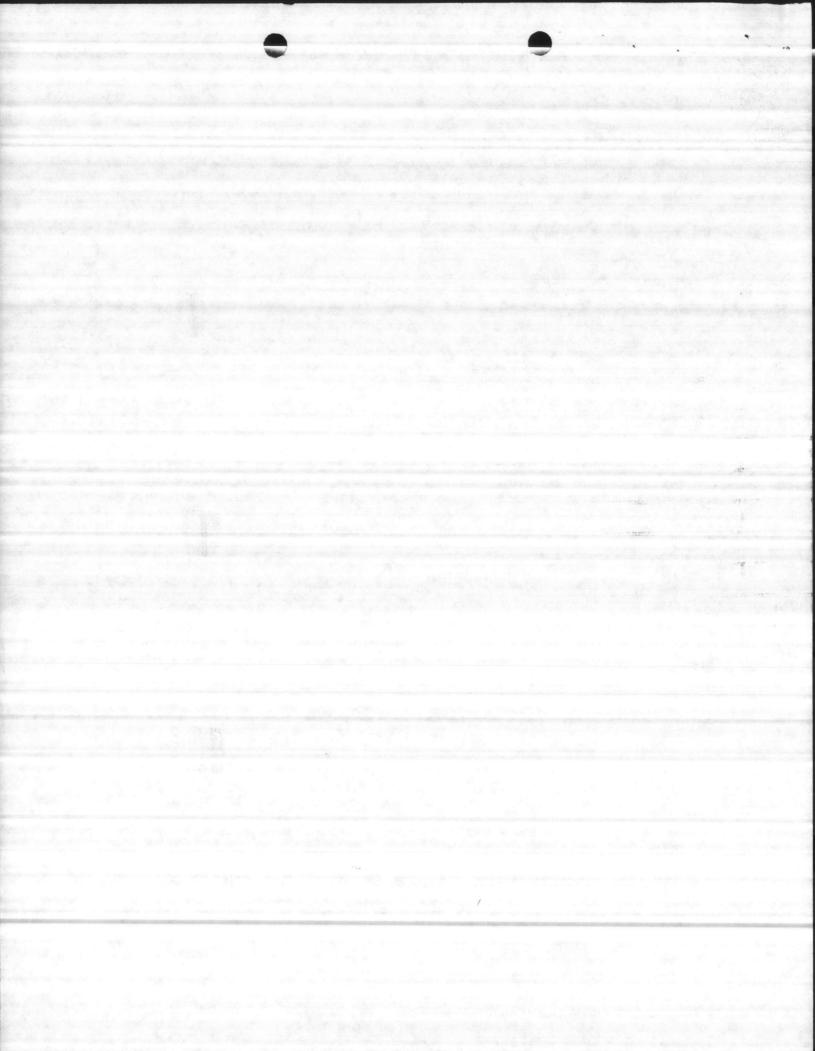
Mill # 13 Copier of the drillen log, electric log, gamma log, water analysis, and sieve analysis for your review. The test well was killed at 250 We recommend a .030 - slot stainler steal screen set at 84'- 104' and at 125'- 145' depth for a total of 40 VF of screen the gravel pack recommendation 8-14. It is our best estimate that This well may yould 260 GPM. Please relient the data and advice if we are to proceed with developing a permanent well at this natur sample taken et 90'



READINGS TIME	G.P.M.	PUMP SETTING	STATIC WATER LEVEL	PUMPING LEVEL	DRAWDOWN -
MINUTE 15 2:15	100	84'	162'	286	11 1214
MINUTE 30 2-30	100			29'11	15
MINUTE 45 2 415	100			316	'17'
HOUR 13,00	100				113
HOUR 1.5 3; 30	100	and the second		341	14
HOUR 2 2/, 00				34'8"	1'
HOUR 2.5 4:30	100			34'10	" 2"
HOUR 3 51 00	100	\$100 (1994)		34'11	p" /"
MINUTE 15 5: 15	150			10'2	153
MINUTE 30 5:30	150				" 19
MINUTE 45 5: 45			5	í3′	1'1'
HOUR 16:00	150		5	4181	1'8"
HOUR 1.56: 30			5.	5'3"	7"
HOUR 27:00	150		50	5'6"	3"
HOUR 2.5 7:30	150		55	7'	10
HOUR 3 4:00	150		55	'9"	211
MINUTE 15 8', '5	200		70	0'10"	51
MINUTE DO 8: 30			71	11'	11
MINUTE 45 8. W.S	200		72	919	10"
HOUR 19:00	300		78	15"	8'
HOUR 1.5 9: 30			173'	11'	6"
HOUR 2 10; 0		$\rightarrow$	74'	2"	3"
HOUR 2.5 10; 30			74		/'··
HOUR 3 // 00			7×	(5")	2"
	/				3'/'
MINUTE 15 /1; 15	250		7.7	6	5/
MINUTE 15 // 15	250 250			9"	X3''
MINUTE 15 /1; 15	250			9"	57

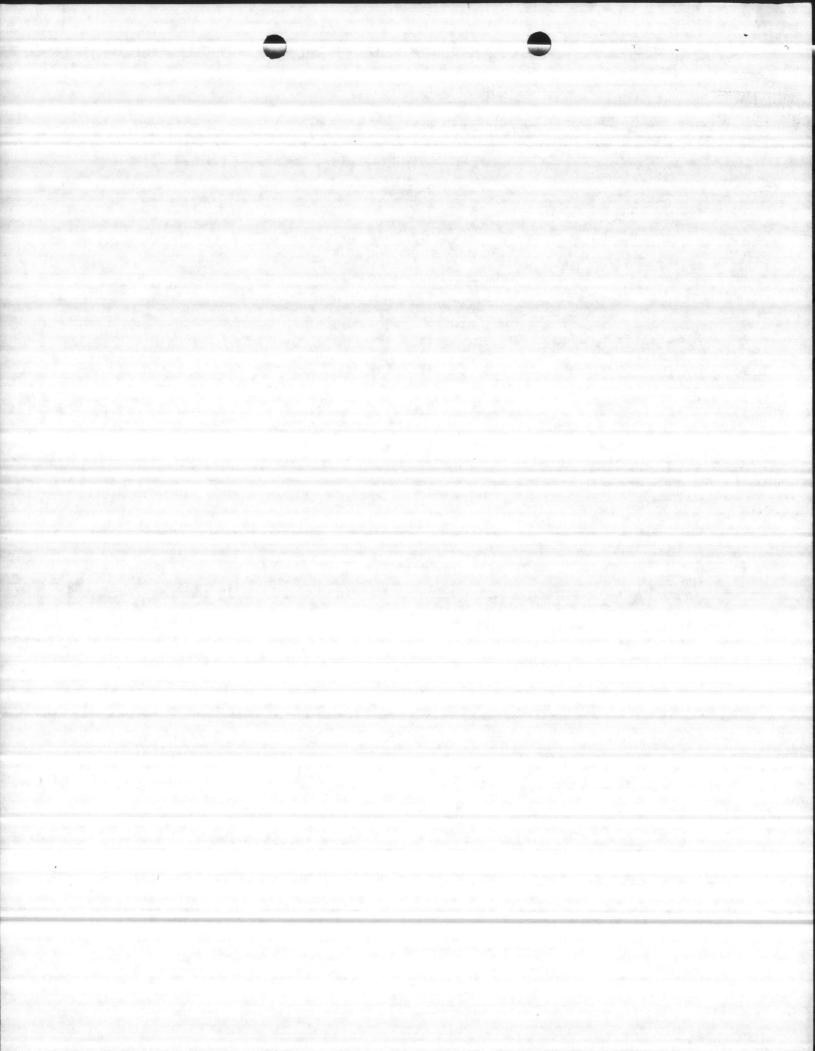
Top some 4+ 65'20"

Dr. Down 55'



Pumping Level DRAW DOWN

		Jangie DRA
HBUR 1.5	7130 250	79/51/10
HOUR 24	250	791111
HOUR 2.5	30 <sub>250</sub>	79'8' 2"
HOUR 3	250	741131
MINUTE 15	300	
MINUTE 30	300	
MINUTE 45	300	
HOUR 1	300	
HOUR 1.5	300	
HOUR 2	300	
HOUR 2.5 -	300	
HOUR 3	300	
MINUTE 15	350	
MINUTE 30	350	
MINUTE 45	350	
HOUR 1	350	
HOUR 1.5	350	
HOUR 2	350	and the second s
HOUR 2.5	350	
HOUR 3	350	
MINUTE 15	400	
MINUTE 30	400	
MINUTE 45	400	
HOUR 1	400	
HOUR 1.5	400	, ,
HOUR 2	400	
HOUR 2.5	400	
laur 3	400	
IINUTE 15	450	
IINUTE 30	450	



MINUTE		490
HUUR )	4	450
HOUR	1.5	450
HOUR	2	450
HOUR	2.5	450
HOUR	3	450

