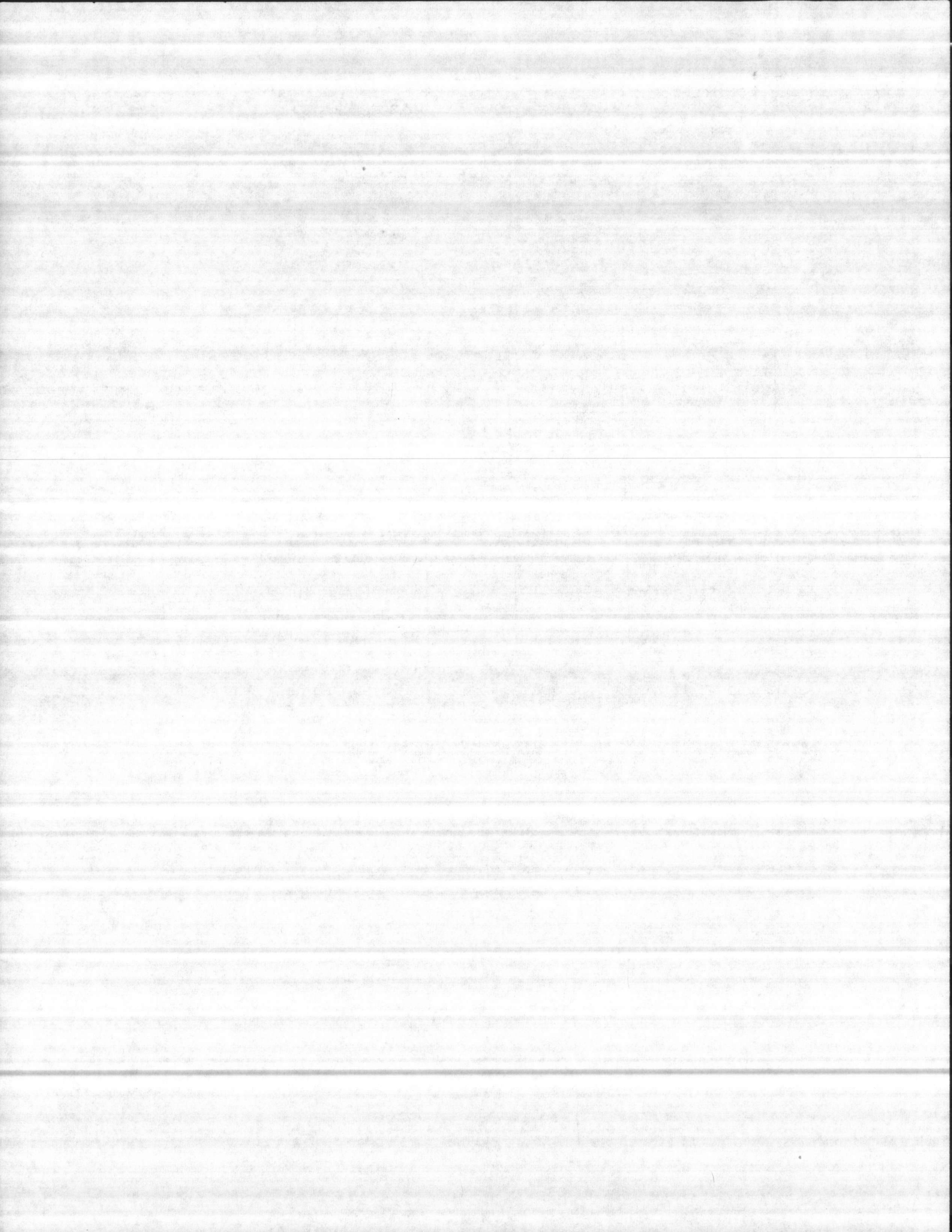


WELL NUMBER <u>AS191</u>		BY <u>SALUS</u>			DATE <u>5-02-02</u>	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
<u>117</u>	<u>27</u>	<u>47</u>	<u>20</u>	<u>27</u>	<u>100</u>	<u>55</u>
		<u>57</u>	<u>30</u>	<u>25</u>	<u>128</u>	<u>05</u>
		<u>62</u>	<u>35</u>	<u>20</u>	<u>185</u>	<u>15</u>
		<u>67</u>	<u>40</u>	<u>15</u>	<u>228</u>	<u>25</u>
	<u>SET AT →</u>	<u>77</u>	<u>50</u>	<u>10</u>	<u>263</u>	<u>35</u>
		<u>92</u>	<u>65</u>	<u>05</u>	<u>293</u>	<u>45</u>

REMARKS

D/H-34

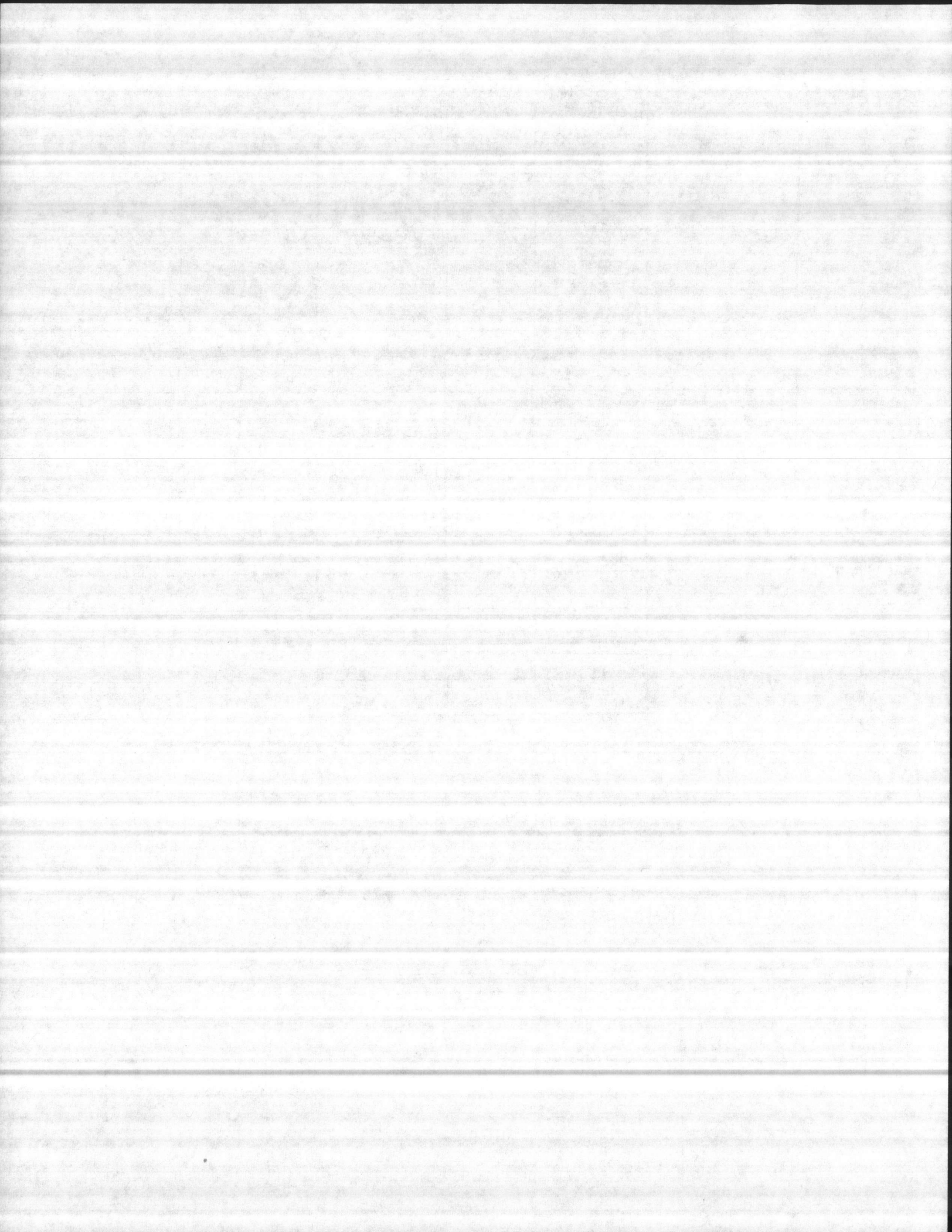
ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



WELL NUMBER 191		BY THOMAS / SALAS			DATE 2-15-01	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
117	27	32	05	27	100	1428
		37	10	25	140	38
		39	12	20	209	48
		39	12	15	252	58
		39	12	10	285	08

REMARKS D/H 37 NOTE: Discharge valve Broke  
2/15/01

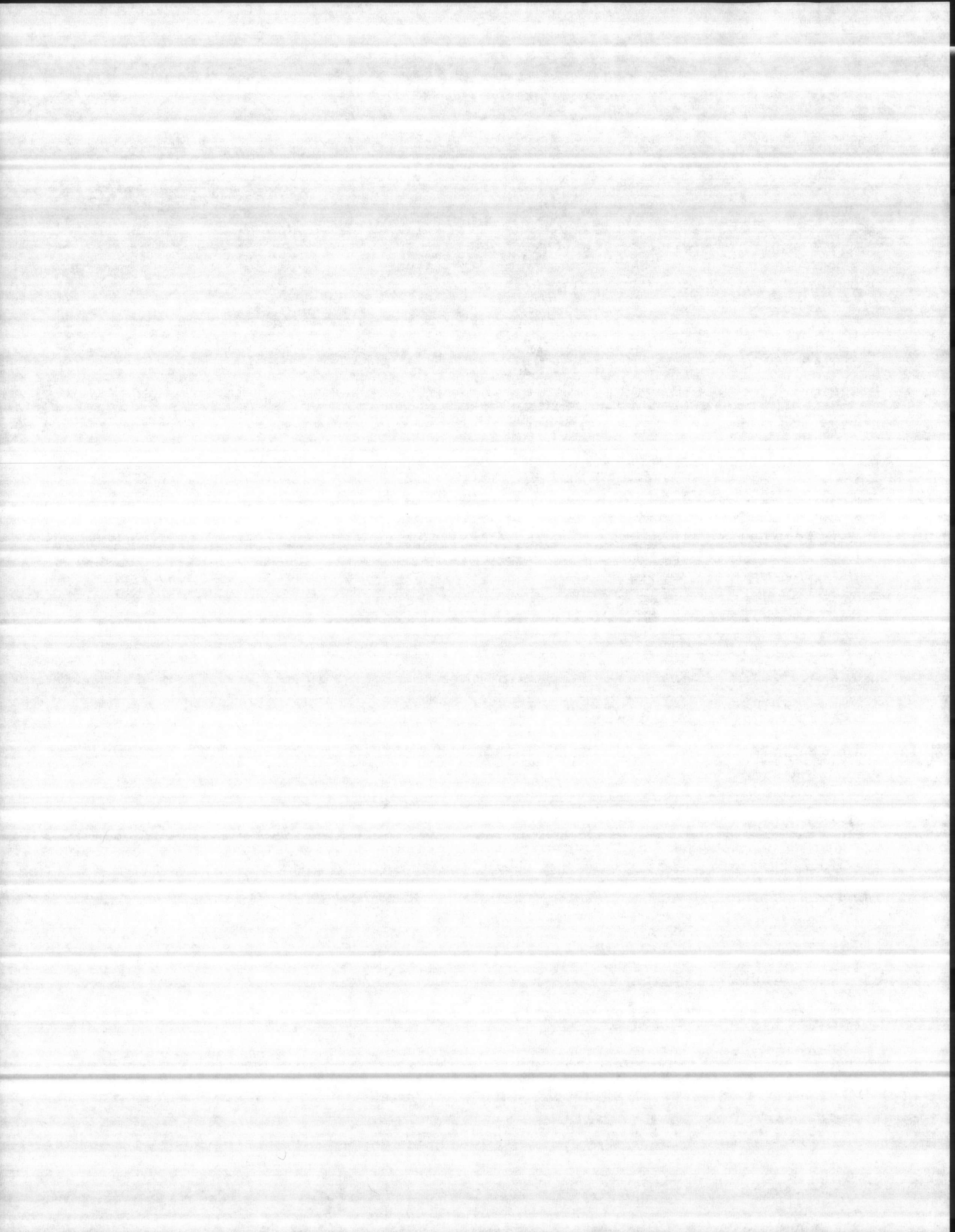
ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



DATE 6-20-00

PWSID 0467042

WELL # AS.191  
WELL NAME AS.110 WATER PLANT  
BLDG. AS.191  
CODE G  
AVAILABILITY P  
LOCATION PISTOL RANGE ROAD  
  
LATITUDE 344307N  
LONGITUDE 0772729W  
WELL DIAMETER 8'  
WELL DEPTH 200  
SCREEN INTERVAL \_\_\_\_\_  
  
YIELD 250  
STATIC LEVEL 28'  
PUMPING LEVEL 42'  
PUMP TYPE VERTICAL TURBINE  
MOTOR HP 10  
INTAKE DEPTH 60  
DESIGN CAPACITY \_\_\_\_\_  
ACTUAL GPM 281  
SIZE OF CONCRETE SLAB 10x10  
  
HEIGHT OF CASING 8.2



# SOURCE INFORMATION GROUND WATER

Date Form Completed

M M D D Y Y  
 0 1 2 9 9 5

PW/SID  
 0  
4  
6  
7  
0  
4  
2

Owner Assigned Source Code

191

Well Name (If purchase, name of system)

~~AS~~ WATER PLANT 191  
 WELL AS

Code

B

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

If Purchase, seller ID#

[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Source Begin Date

M M Y Y  
 [ ] [ ] [ ] [ ]

Source exempt—

SWTR?

Y  
 N

Direct Influence Date

M M D D Y Y  
 [ ] [ ] [ ] [ ] [ ] [ ]

Availability

A

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

Location of well within the system (If purchase, location of master meter)

P I S T O L R A N G E R O A D

Latitude (N)

3 4 4 3 0 7

Longitude (W)

0 7 7 2 7 2 9

How Determined

G=GPS  
 M=Map  
 S=Surveyed

0

GPS Data

Q# or DOP#

No. of Sats. Locked on

[ ]

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

Vulnerable (VOCs)  Y  
 N

Assessment Date

M M D D Y Y  
 [ ] [ ] [ ] [ ] [ ] [ ]

## ENTRY POINT INFORMATION

Use Code

C=Ground/Permanent  
 D=Ground/non-permanent

C

Availability

P=Year-round  
 E=Emergency  
 S=Seasonal  
 I=Interim  
 O=Other

P

Owner Assigned Entry Point Code

400

Entry Point Name

~~AS~~ MCAS NEW RIVER ENTP

Location:

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

Sources of pollution/distance: \_\_\_\_\_

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

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

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

Condition of house: OK Type of freeze protection: None

Well: Diameter: 8" Type: SCREENED Yield (gpm): 250 Properly sealed?  (Y,N)

Properly vented?  (Y,N) Casing depth 60 ft. (If unknown, put 'UNK') Well depth: 200 Meter available?  (Y,N)

Concrete slab adequate?  (Y,N) If no, explain: Well NOT in center of slab Size: 10X10

Size of blow-off: 4:2 Sample tap: Before treatment?  (Y,N) After treatment? \_\_\_\_\_ (Y,N)

Pumps: Capacity: GPM: 281 HP: 10 Pump intake depth: 60 Auxiliary Power?  (Y,N)

Type pump: VERTICAL TURBINE Height above floor (pump/casing): \_\_\_\_\_ / 8:2

Storage at well site: Elev: [ ] [ ] [ ] [ ] [ ] [ ] Hydro: [ ] [ ] [ ] [ ] [ ] [ ] Ground: [ ] [ ] [ ] [ ] [ ] [ ]

If hydroautomatic, air volume control? \_\_\_\_\_ (Y,N) Safety valves? \_\_\_\_\_ (Y,N) Coded? \_\_\_\_\_ (Y,N)

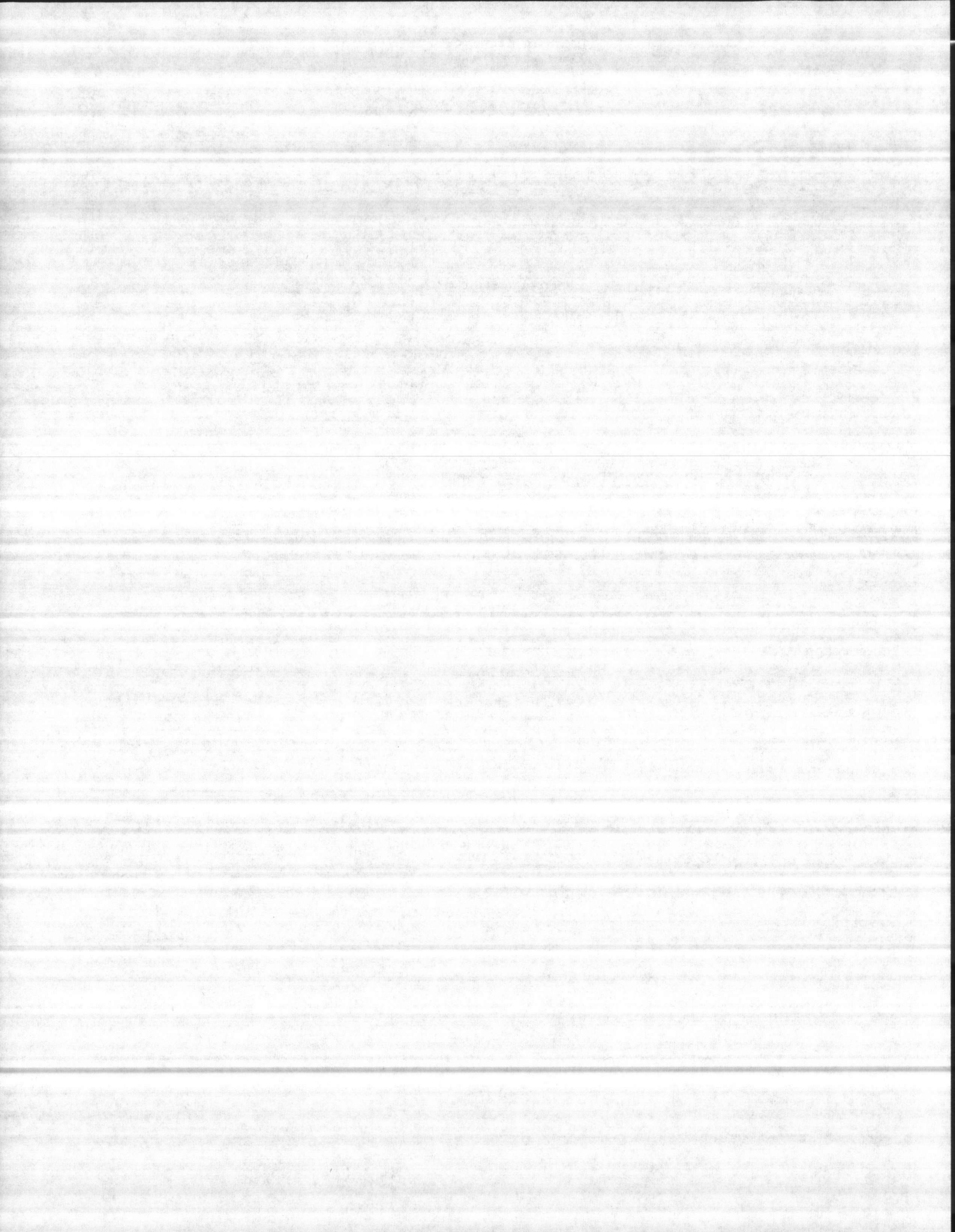
High service pumps: 1. \_\_\_\_\_ gpm \_\_\_\_\_ hp 2. \_\_\_\_\_ gpm \_\_\_\_\_ hp 3. \_\_\_\_\_ gpm \_\_\_\_\_ hp Auxiliary Power? \_\_\_\_\_ (Y,N)

Is the water treated at this well?  (Y,N) If yes, complete back of form.

If other wells are treated here, which ones? \_\_\_\_\_ If treated elsewhere, where? MCAS/WATER PL.

If purchase, retreat?  (Y,N) If yes, complete back of form.

① No Vent  
 ② Meter Broken  
 ③ Move sample tap  
 ④ Need splash pad @ Blow off





C O P

WELL NUMBER AS 191		BY STEVENSON & BROWN			DATE 11-1-94	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
117	32	35	3	30	100	
		39	7	25	210	
		40	8	20	281	

D/H 37 PSI

REMARKS

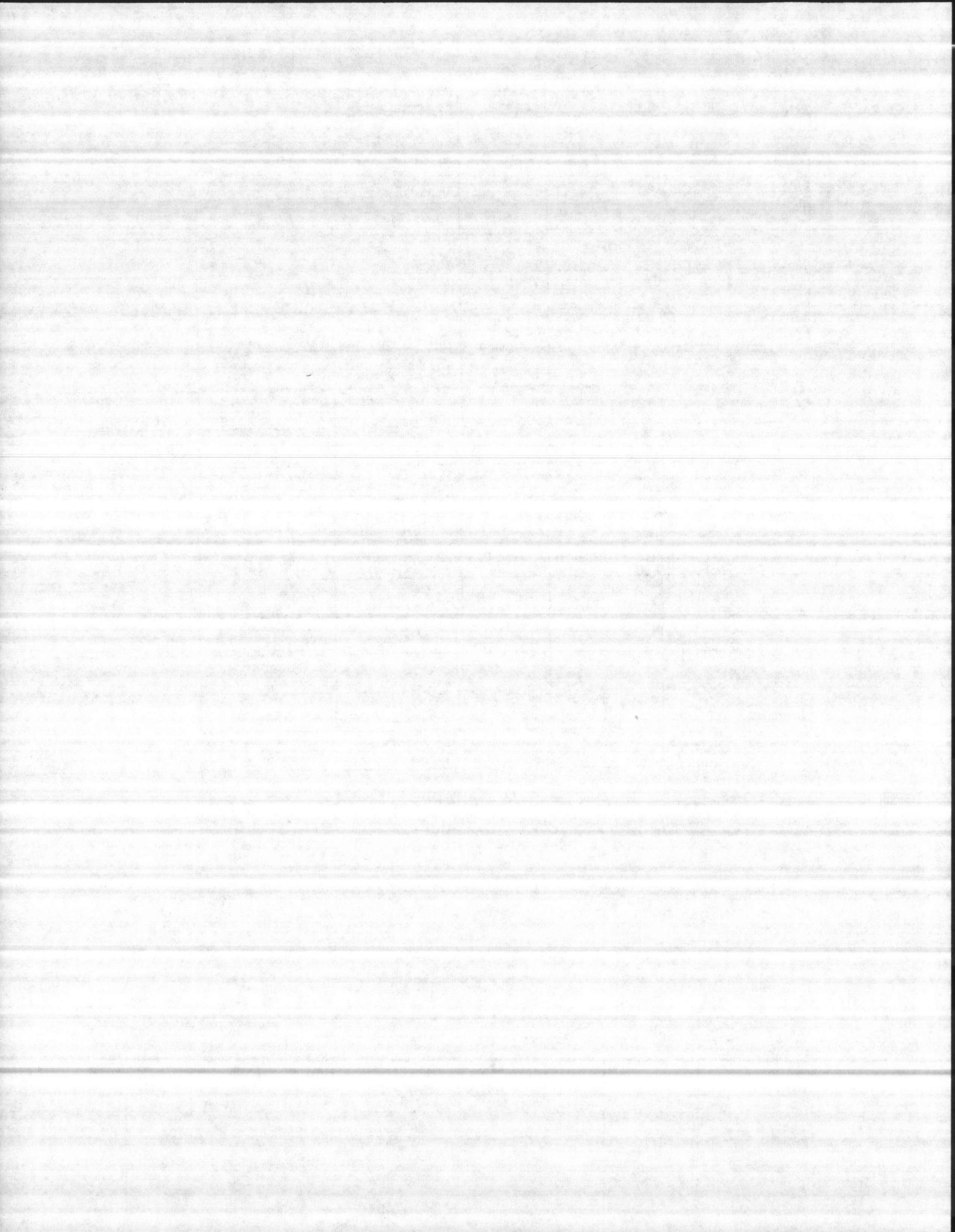
MFGURER	STAGE	S.N.	TOTAL HEAD	SIZE



WELL NUMBER 191		E. Thomas / COX			DATE 11-19-90	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
117	34	39	5	28	110	
		41	7	25	150	
		44	10	22	185	
		48	14	20	220	

REMARKS  
 Read head 38

ANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE





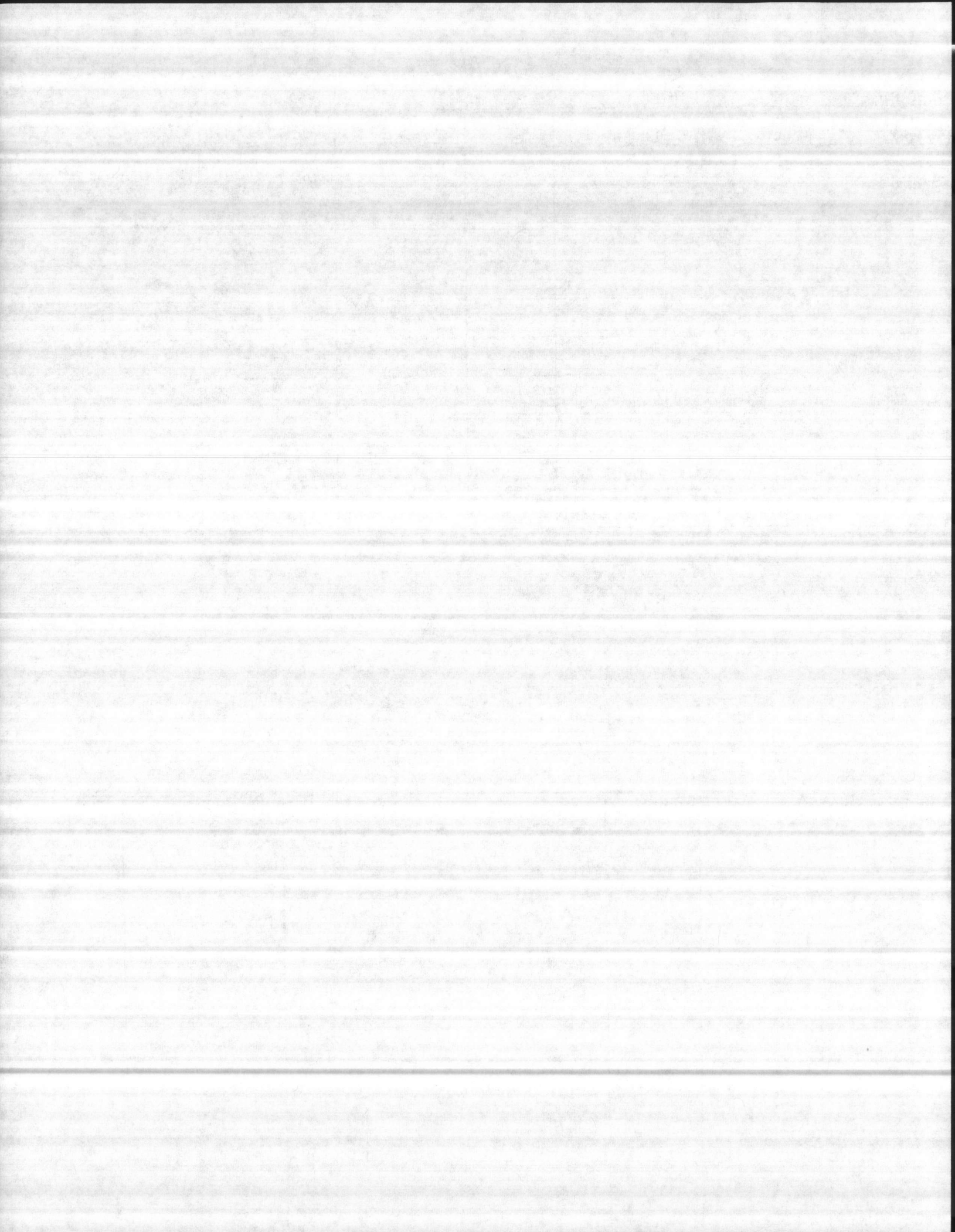


WELL NUMBER AS 191		BY Thomas S. Sweeney			DATE 9-14-88	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
117'	33'	37'	4'	30	104	8:45
		40'	7'	25	187	9:00
		42'	9'	20	240	9:15
		45'	12'	15	277	9:30

REMARKS

DH 34  
 AMB 25/24/25  
 Set at 25 psi at 137 GPM

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE





WATER ANALYSIS LABORATORY  
802 HAMLET HIGHWAY  
BENNETTSVILLE, SOUTH CAROLINA  
29512

CONSULTANTS FOR:  
INDUSTRY  
MUNICIPALITIES  
HOME OWNERS  
DEVELOPERS  
IRRIGATION  
OTHERS

(803) 479-1639

EAST COAST CONSTRUCTION CO., INC  
CONTRACT N62470-76-C-6800  
REPLACE WATER WELLS

DATE: 12/13/77

MARINE CORPS BASE  
CAMP LEJUENE, NC

Report To: Carolina Well & Pump Co.  
Sanford, N. C.

Date Analyzed: 12/13/77  
Sample Number: 147'-152' #2  
WELL "B" - Air Base

Analysis Results--Parts Per Million

Determination

pH 7.1  
Iron (Fe) 0.15  
Nitrate (NO<sub>3</sub>) 0  
Fluoride (F) 1.1  
Manganese (Mn) 0  
Total Hardness (CaCO<sub>3</sub>) 136  
Chlorides (Cl) 24  
Sulfate (SO<sub>4</sub>) 6.7  
Phosphate (PO<sub>4</sub>) Trace  
Magnesium (Mg) 8.2  
Calcium (Ca) 40.8  
Carbonate (CO<sub>3</sub>) 8.2  
Bicarbonate (HCO<sub>3</sub>) 439  
Hydroxide (OH) 0

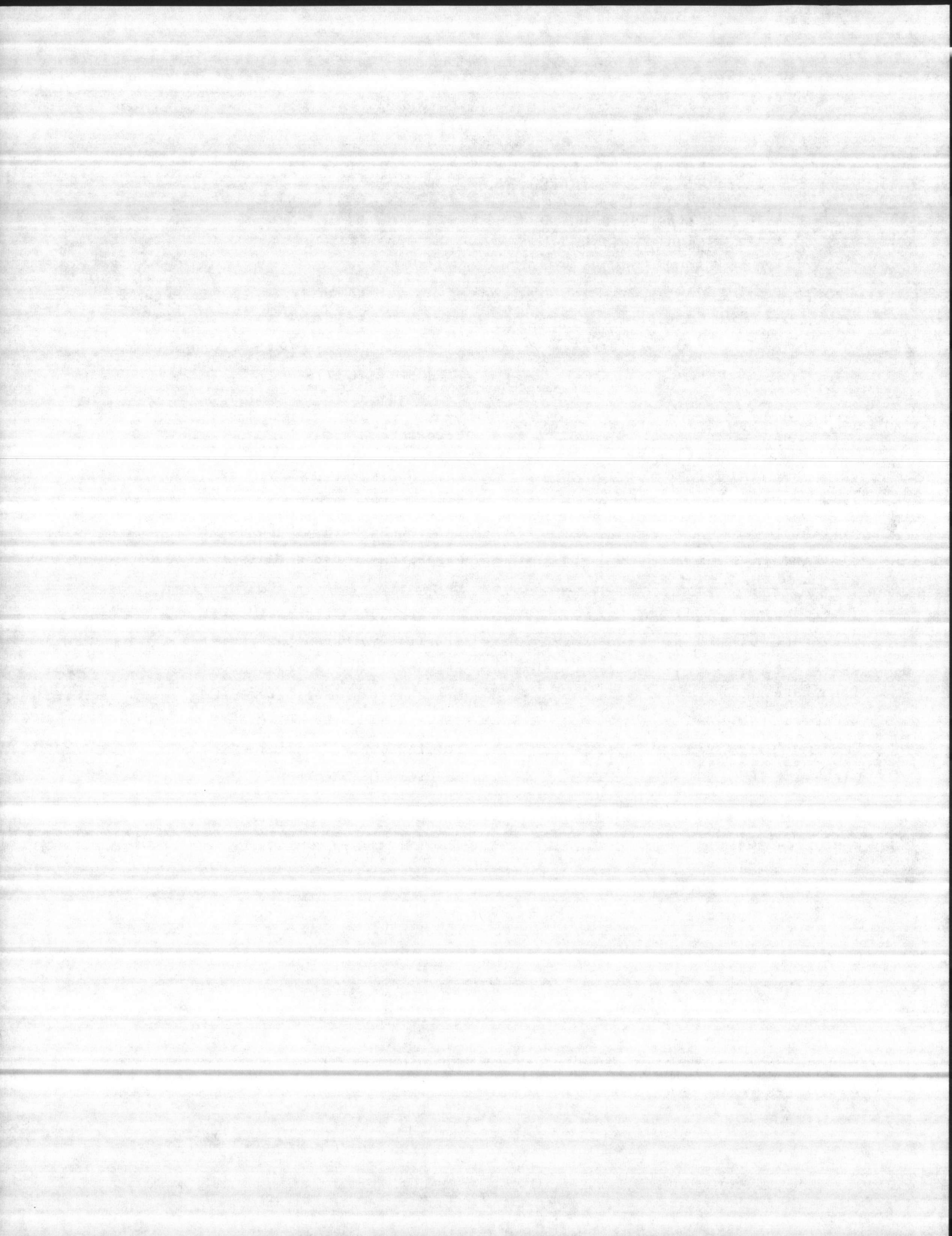
Determination

Carbon Dioxide (CO<sub>2</sub>) 2  
Total Acidity (CaCO<sub>3</sub>) 5  
Calcium Hardness (CaCO<sub>3</sub>) 102  
Magnesium Hardness (CaCO<sub>3</sub>) 34  
Carbonate Hardness (CaCO<sub>3</sub>) 136  
Noncarbonate Hardness (CaCO<sub>3</sub>) 0  
Alkalinity (Phenolphthalein) (CaCO<sub>3</sub>) 0  
Carbonate Alkalinity (CaCO<sub>3</sub>) 0  
Bicarbonate Alkalinity (CaCO<sub>3</sub>) 360  
Total Alkalinity (CaCO<sub>3</sub>) 360  
Total Dissolved Solids 292  
Specific Conductance (micromhos at 25°C) 450  
Appearance When Analyzed Clear  
Odor When Analyzed Not Objectionable

SIGNED: \_\_\_\_\_

LABORATORY DIRECTOR

ANALYTICAL METHODS REFERENCES: 'STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTE-WATER,' APHA, AWWA AND WPCF AND 'METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES,' WATER SUPPLY PAPER 1454 (1960), U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C.



# EAST COAST CONSTRUCTION COMPANY, INC.

GENERAL CONTRACTORS

P. O. BOX 5004 — JACKSONVILLE, NORTH CAROLINA 28540

353-4479 or 353-6044

EAST COAST CONSTRUCTION CO., INC.

CONTRACT N62470-76-C-6800

REPLACE WATER WELLS

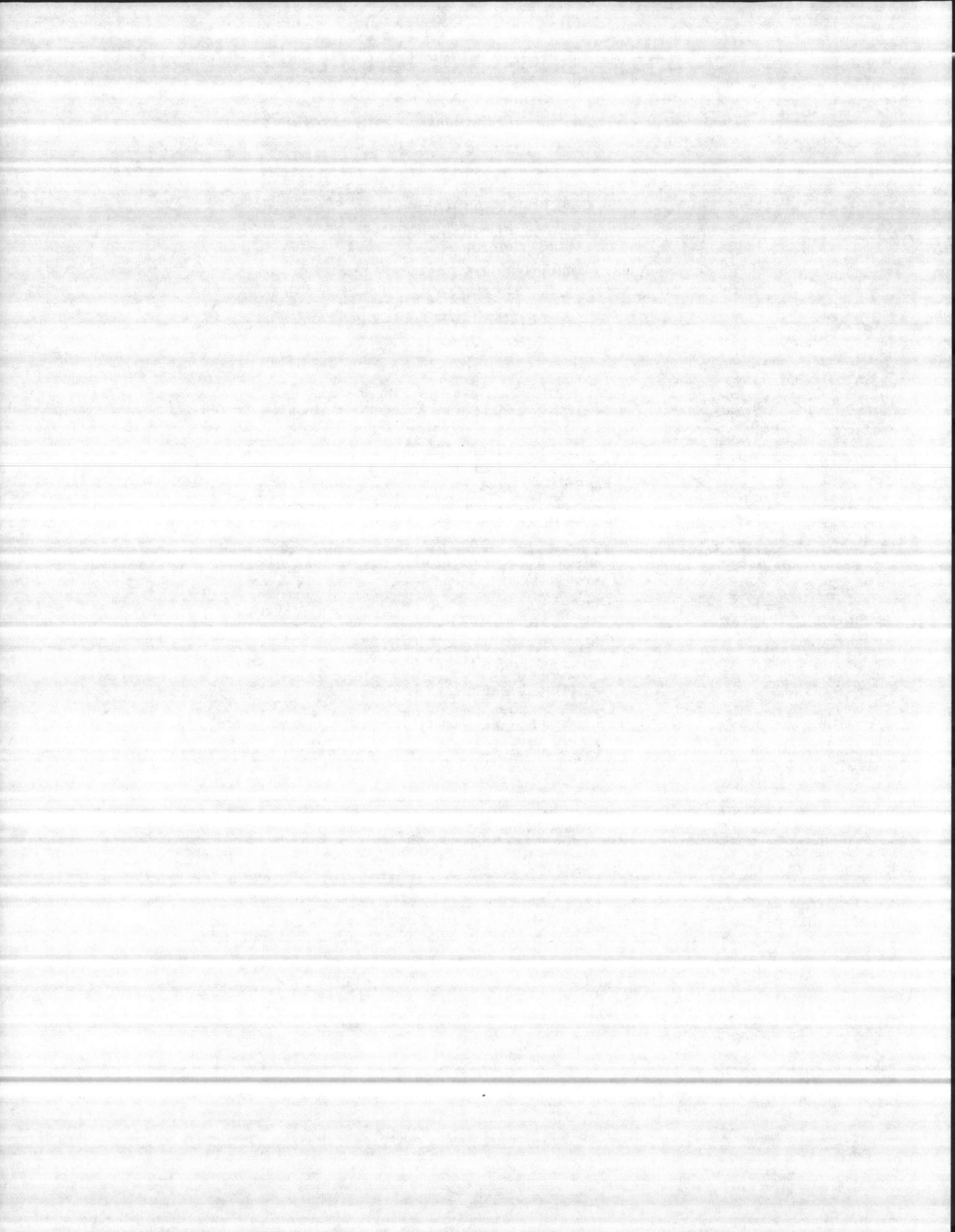
MARINE CORPS BASE

CAMP LEJUENE, NC

DRILLERS LOG

WELL "B"

0 - 10 Sand  
10 - 20 Sand and Clay  
20 - 30 Sand and Shell  
30 - 40 Sand and Shell  
40 - 50 Limestone  
50 - 60 Limestone  
60 - 70 Sand and Shell  
70 - 80 Sand and Shell  
80 - 90 Sand and Shell  
90 - 100 Clay  
100 - 110 Clay  
110 - 120 Clay  
120 - 130 Clay  
130 - 140 Clay and Rock  
140 - 150 Limestone  
150 - 160 Limestone  
160 - 170 Limestone  
170 - 180 Limestone  
180 - 190 Limestone



WATER ANALYSIS LABORATORY  
802 HAMLET HIGHWAY  
BENNETTSVILLE, SOUTH CAROLINA  
29512

CONSULTANTS FOR:  
INDUSTRY  
MUNICIPALITIES  
HOME OWNERS  
DEVELOPERS  
IRRIGATION  
OTHERS

(803) 479-4639

EAST COAST CONSTRUCTION CO., INC.

CONTRACT N62470-76-C-6800

REPLACE WATER WELLS

MARINE CORPS BASE

CAMP LEJUENE, NC

Report To: Carolina Well & Pump Co.

Sanford, N. C.

DATE 12/13/77

Date Analyzed: 12/13/77

Sample Number: 63'-68' #2

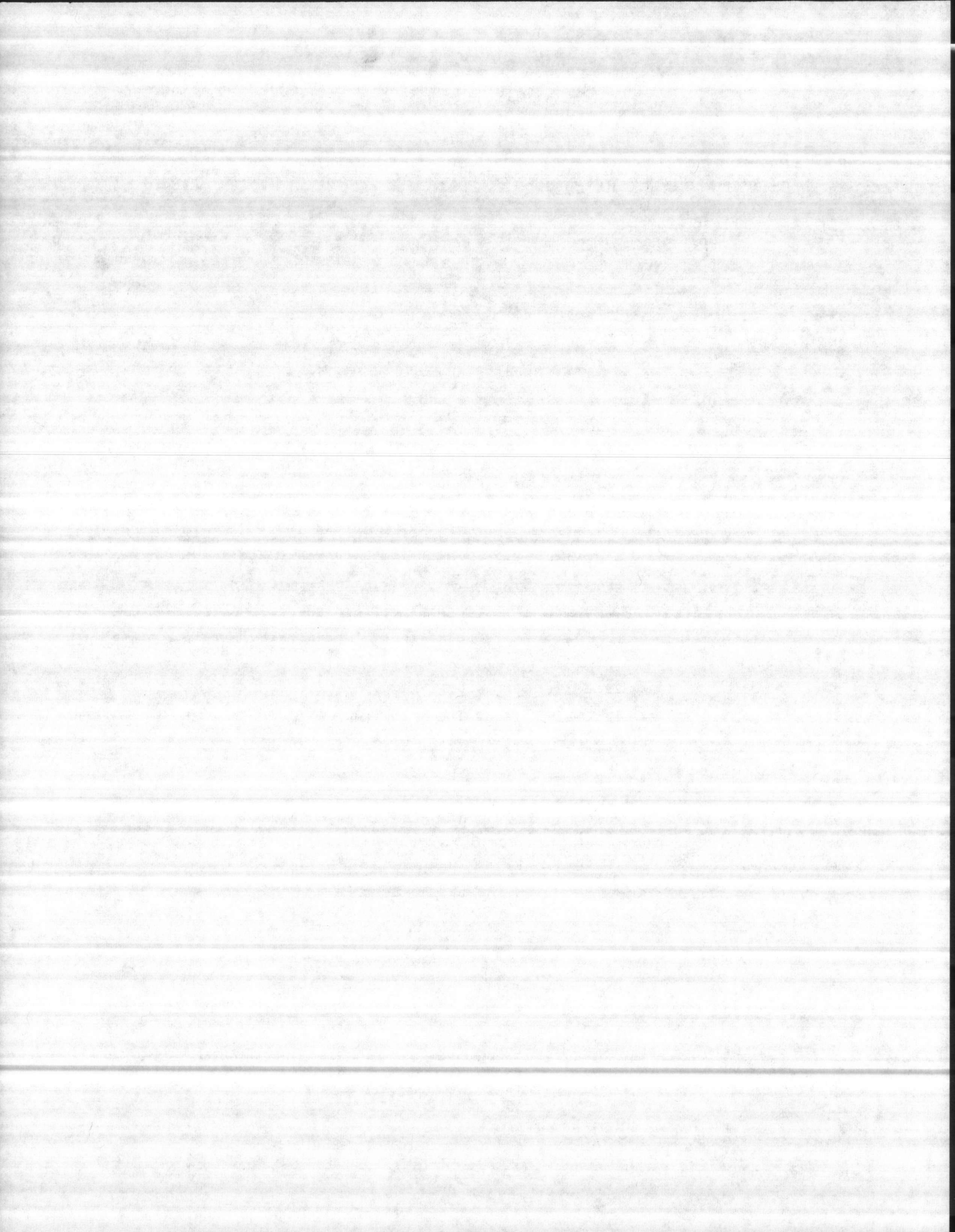
WELL "B" Air Base

Analysis Results--Parts Per Million

<u>Determination</u>		<u>Determination</u>	
pH	<u>6.9</u>	Carbon Dioxide (CO <sub>2</sub> )	<u>4</u>
Iron (Fe)	<u>3.5</u>	Total Acidity (CaCO <sub>3</sub> )	<u>8</u>
Nitrate (NO <sub>3</sub> )	<u>0</u>	Calcium Hardness (CaCO <sub>3</sub> )	<u>213</u>
Fluoride (F)	<u>0.25</u>	Magnesium Hardness (CaCO <sub>3</sub> )	<u>8</u>
Manganese (Mn)	<u>0</u>	Carbonate Hardness (CaCO <sub>3</sub> )	<u>221</u>
Total Hardness (CaCO <sub>3</sub> )	<u>221</u>	Noncarbonate Hardness (CaCO <sub>3</sub> )	<u>0</u>
Chlorides (Cl)	<u>8</u>	Alkalinity (Phenolphthalein) (CaCO <sub>3</sub> )	<u>0</u>
Sulfate (SO <sub>4</sub> )	<u>9.8</u>	Carbonate Alkalinity (CaCO <sub>3</sub> )	<u>0</u>
Phosphate (PO <sub>4</sub> )	<u>Trace</u>	Bicarbonate Alkalinity (CaCO <sub>3</sub> )	<u>240</u>
Magnesium (Mg)	<u>1.9</u>	Total Alkalinity (CaCO <sub>3</sub> )	<u>240</u>
Calcium (Ca)	<u>85.2</u>	Total Dissolved Solids	<u>230</u>
Carbonate (CO <sub>3</sub> )	<u>0</u>	Specific Conductance (micromhos at 25°C)	<u>350</u>
Bicarbonate (HCO <sub>3</sub> )	<u>292</u>	Appearance When Analyzed	<u>Cloudy</u>
Hydroxide (OH)	<u>0</u>	Odor When Analyzed	<u>Not Objectionable</u>

SIGNED \_\_\_\_\_  
LABORATORY DIRECTOR

ANALYTICAL METHODS REFERENCES: 'STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTE-WATER,' APHA, AWWA AND WPCF AND 'METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES,' WATER SUPPLY PAPER 1454 (1960), U. S. GEOLOGICAL SURVEY, WASHINGTON, D. C.

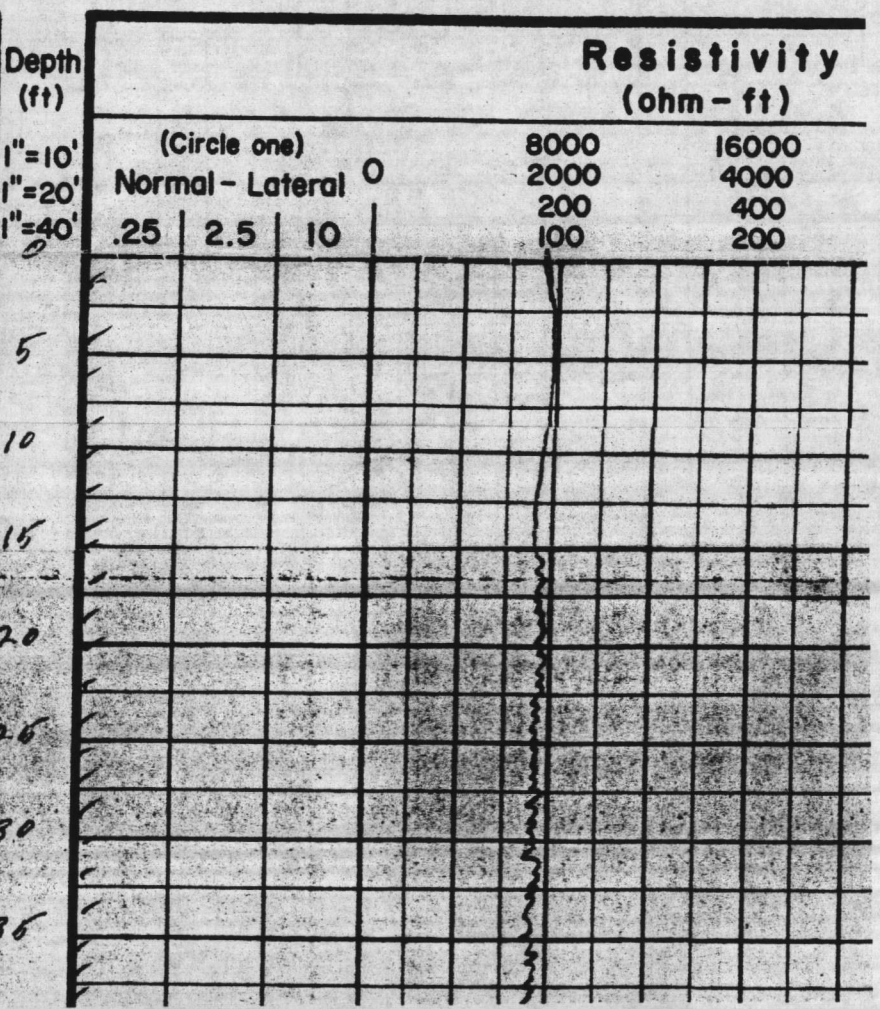
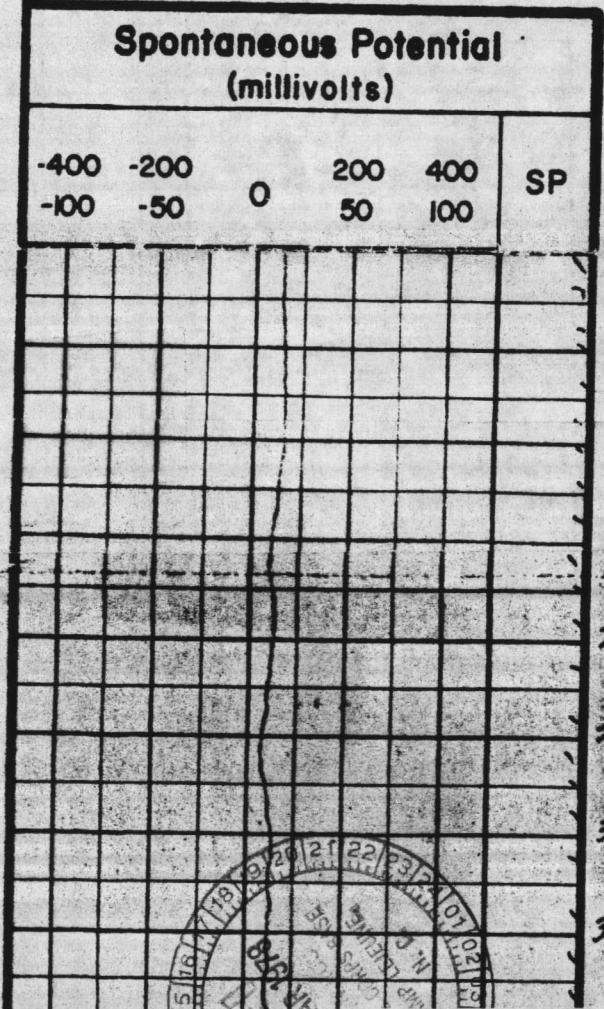


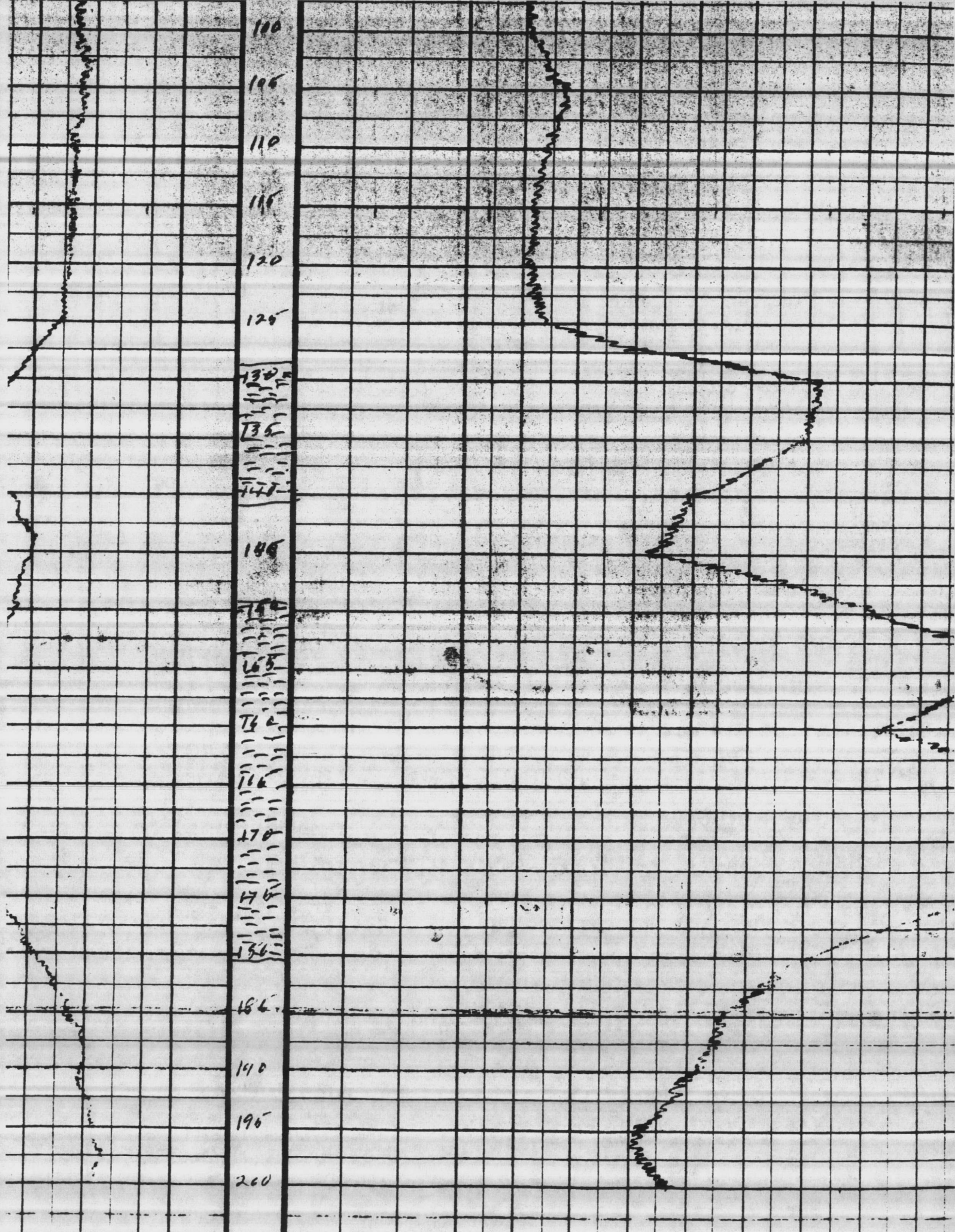
EAST COAST CONSTRUCTION CO., INC.  
 CONTRACT N62470-76-C-6800  
 REPLACE WATER WELLS  
 MARINE CORPS BASE  
 CAMP LEJUENE, NC

# ELECTRIC LOG BY

## JOHNSON-KECK™ DR-61 ELECTRICAL LOGG

Well # B Owner Camp Lejuene  
 Location Air station Date \_\_\_\_\_  
 Borehole depth 200 ft. dia. 9 in. Casing depth 40  
 Mud resistivity \_\_\_\_\_ temperature \_\_\_\_\_  
 viscosity \_\_\_\_\_ sec weight \_\_\_\_\_ lb/gal type \_\_\_\_\_  
 Measuring point ground ft. above/below \_\_\_\_\_  
 Fluid level in hole 16 ft. Other logs \_\_\_\_\_  
 Driller C. W. Brinkley E-log operator R







PUMPING TEST DATA

CS  
FOR: EAST COAST  
CONTRACT CO.

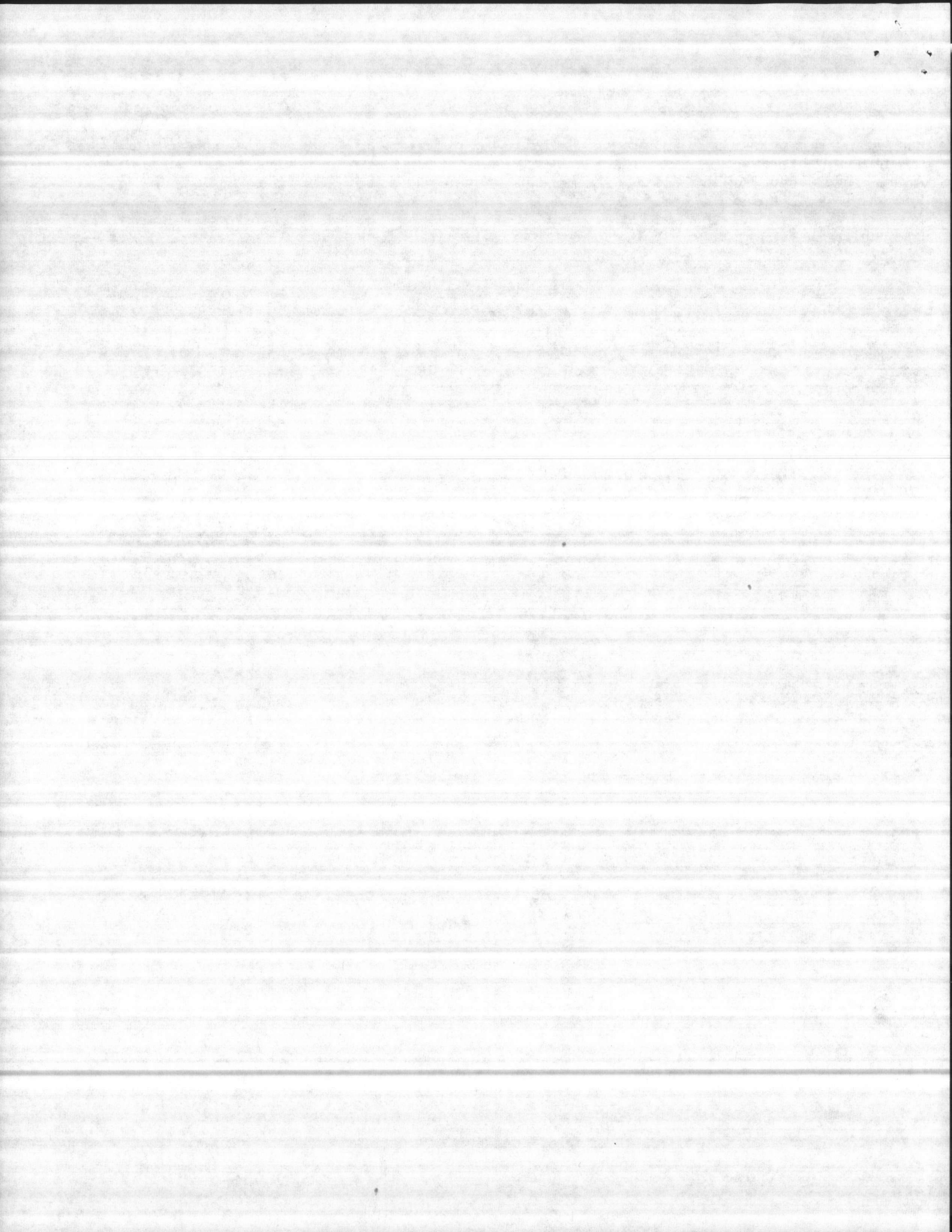
Test conducted by: Carolina Well + Pump Co., Inc.  
 Well Owner: U.S. Navy Address: CAMP LEJEUNE NC  
 Pumped Well No.: "B" Location: AN CAS, NEW BINEZ County: Durham  
 Observation Well Location: \_\_\_\_\_

Airline Lengths: Pumped Well \_\_\_\_\_ Observation Wells \_\_\_\_\_  
 Remarks: COMTRMT NO2470-76-C-6860 REPLACE WATER WELLS

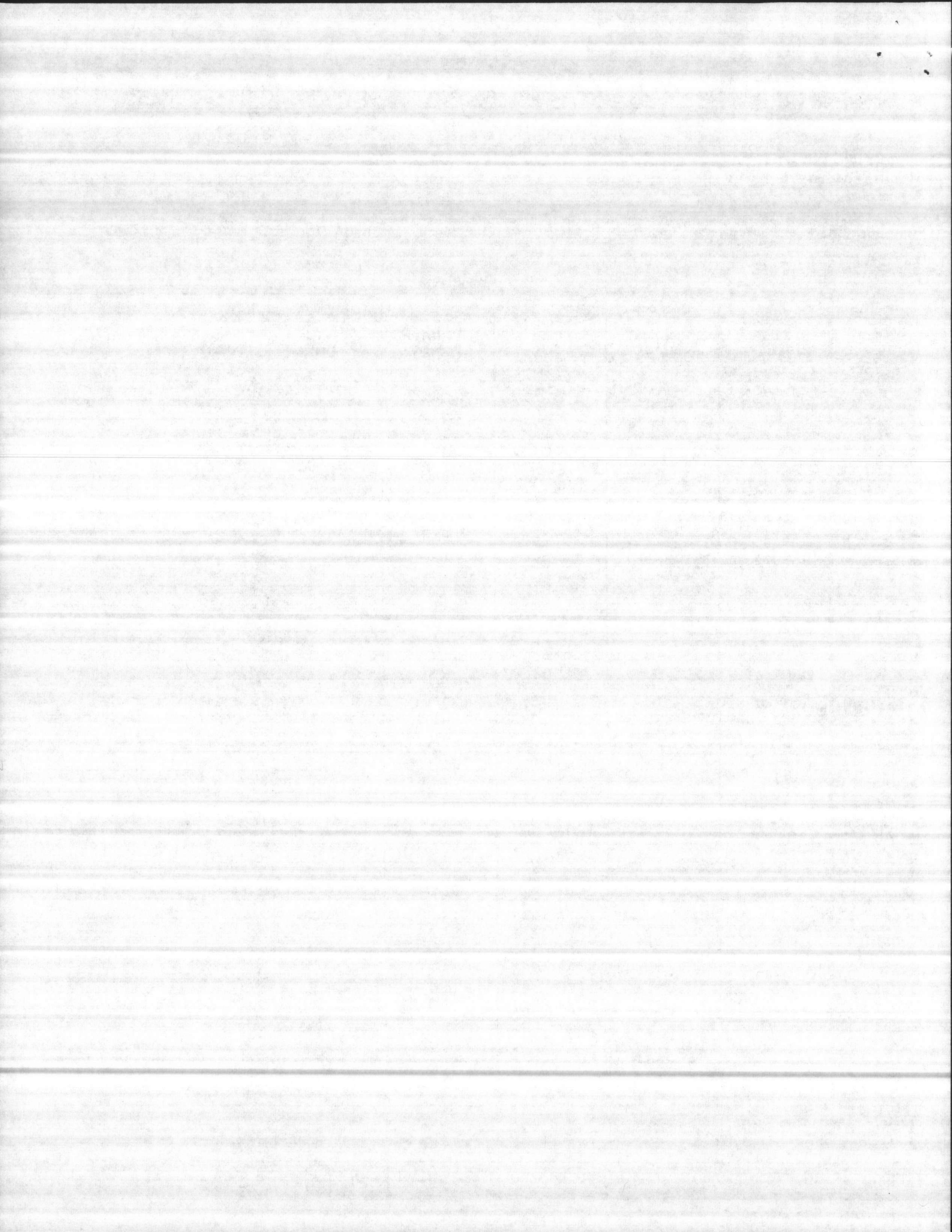
Pumping rate measured with: 6" x 5" Orific Water levels measured with: Electric Tape

Pump Well Data

Date and Time	Elapsed Time Min.	Piezometer Tube Reading Inches	Pumping Rate GPM	Pump Discharge Pressure	Altitude Gauge Reading Feet	Feet to Water	Remarks
APRIL 25 1978							
10:00 AM	START		START			23' 4"	STATIC
10:15 "	15 MIN		100			28' 8"	
10:30 "	15 "		100			28' 8"	
11:00 "	30 "		100			28' 9"	
11:30 "	30 "		100			28' 8"	
12:00 PM	30 "		100			28' 9"	
12:30 "	30 "		100			28' 9"	
12:45 "	15 "		150			29' 11"	
1:00 "	15 "		150			29' 11"	
1:30 "	30 "		150			30' 1"	
2:00 "	30 "		150			30' 3"	
2:30 "	30 "		150			30' 2"	
3:00 "	30 "		150			30' 3"	
3:15 "	15 "		200			31' 4"	
3:30 "	15 "		200			31' 4"	
4:00 "	30 "		200			31' 4"	
4:30 "	30 "		200			31' 4"	
5:00 "	30 "		200			31' 5"	
5:30 "	30 "		200			31' 5"	
5:45 "	15 "		250			32' 2"	
6:00 "	15 "		250			32' 1"	
6:30 "	30 "		250			32' 2"	
7:00 "	30 "		250			32' 2"	
7:30 "	30 "		250			32' 2"	
8:00 "	30 "		250			32' 3"	
8:15 "	15 "		300			33' 2"	
8:30 "	15 "		300			33' 1"	
9:00 "	30 "		300			33' 2"	
9:30 "	30 "		300			33' 1"	
10:00 "	30 "		300			33' 2"	
10:30 "	30 "		300			33' 2"	
10:45 "	15 "		350			35' 0"	
11:00 "	15 "		350			35'	
11:30 "	30 "		350			35'	
12:00 AM	30 "		350			35' 1"	
12:30 "	30 "		350			35'	
1:00 "	30 "		350			35'	
1:15 "	15 "		400			37' 5"	
1:30 "	15 "		400			37' 4"	
2:00 "	30 "		400			37' 5"	
2:30 "	30 "		400			37' 5"	
3:00 "	30 "		400			37' 9"	
3:30 "	30 "		400			37' 5"	







# ENVIRONMENTAL PRODUCTS, INC

P. O. BOX 2385 • HICKORY, N. C. 28601 • 704/322-7003

## SUBMITTAL DATA

**PROJECT:** N62470-76-B-6800, Replace Water Wells  
**LOCATION:** Marine Corp Base, Camp Lejeune, North Carolina  
**ENGINEER:** Naval Facilities Engineering Command, Norfolk, Virginia  
**CONTRACTOR:** East Coast Construction, Jacksonville, North Carolina  
**SUBJECT:** Well "B"  
**CONDITIONS:** 250 GPM @ 81'TDH, 1800 RPM  
**DESCRIPTION:**

One (1) Crane Deming 4-stage, size M-8, Fig. 4700, vertical turbine bowl assembly, for water lubrication, with bronze impellers designed for the above conditions, fitted for 5" column and 1" shafting, with 5" threaded suction, and including the following:

- A. One (1) H16DL 16½" x 6" type "C" surface discharge head, fitted for 5" column and 1" water lubricated shafting, for a 6" above ground discharge.
- B. One (1) foundation plate (baseplate) for the above discharge head.
- C. Two (2) 5' sections of 5" AWWA standard .258 wall, schedule 40, water well column pipe, threaded and coupled with couplings, zinc coated. One to be installed at the top of the bowl assembly, one to connect to bottom of discharge head.
- D. Five (5) 10' sections, same as above, for use as "intermediate column".
- E. One (1) 5' section of 1" diameter, C-1045, water lubricated shafting (bottom drive), with coupling, stainless steel shaft sleeve, bronze retainer and rubber bearing (for 5" column).
- F. Five (5) 10' sections of 1" diameter, C-1045, water lubricated shaft assemblies, with couplings, stainless steel shaft sleeves, bronze retainers and rubber bearings (intermediate shaft).
- G. One (1) 1" diameter, C-1045 topshaft, with sleeve, suitable for 5' top column, head, gear and motor used.
- H. One (1) 10' section of 5" zinc coated pipe (suction pipe).
- I. One (1) 5" galvanized cornucopia type strainer.
- J. One (1) General Electric type K, 10 HP, 1800 RPM, 3 phase, 60 cycle, 200 volt, vertical hollow shaft motor, NEMA design "B", rated for high thrust with 1.15 service factor, class "B" insulated, 40° C. ambient, in a L215TP10 frame in a NEMA weather protected type one enclosure.

Note 1. TDH is based on 32.25' pumping level, 20 PSI @ ground and column and shaft losses of 2.30'  
(32.25 + 46.20 + 2.30 = 80.75) used 81

Note 2. Please confirm overall setting.

JUNE 8, 1978



# ENVIRONMENTAL PRODUCTS, INC

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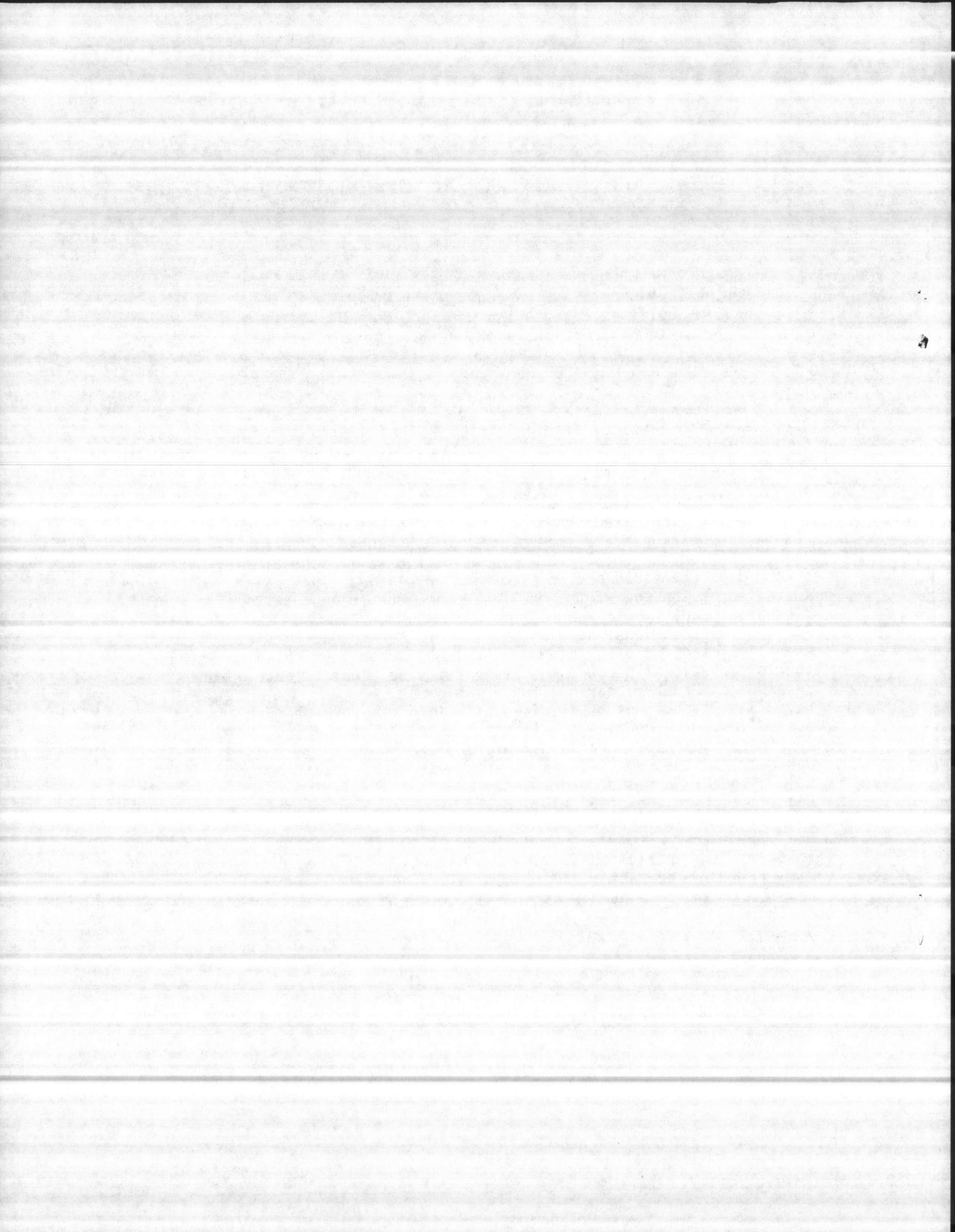
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- B. One (1) foundation plate (baseplate) for the above discharge head.
- C. Two (2) 5' sections of 5" AWWA standard .258 wall, schedule 40, water well column pipe, threaded and coupled with couplings, zinc coated. One to be installed at the top of the bowl assembly, one to connect to bottom of discharge head.
- D. Five (5) 10' sections, same as above, for use as "intermediate column".
- E. One (1) 5' section of 1" diameter, C-1045, water lubricated shafting (bottom drive), with coupling, stainless steel shaft sleeve, bronze retainer and rubber bearing (for 5" column).
- F. Five (5) 10' sections of 1" diameter, C-1045, water lubricated shaft assemblies, with couplings, stainless steel shaft sleeves, bronze retainers and rubber bearings (intermediate shaft).
- G. One (1) 1" diameter, C-1045 topshaft, with sleeve, suitable for 5' top column, head, gear and motor used.
- H. One (1) 10' section of 5" zinc coated pipe (suction pipe).
- I. One (1) 5" galvanized cornucopia type strainer.
- J. One (1) General Electric type K, 10 HP, 1800 RPM, 3 phase, 60 cycle, 200 volt, vertical hollow shaft motor, NEMA design "B", rated for high thrust with 1.15 service factor, class "B" insulated, 40° C. ambient, in a L215TP10 frame in a NEMA weather protected type one enclosure.

Note 1. TDH is based on 32.25' pumping level, 20 PSI @ ground and column and shaft losses of 2.30'

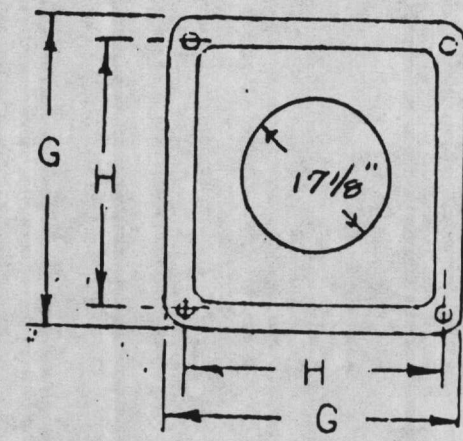
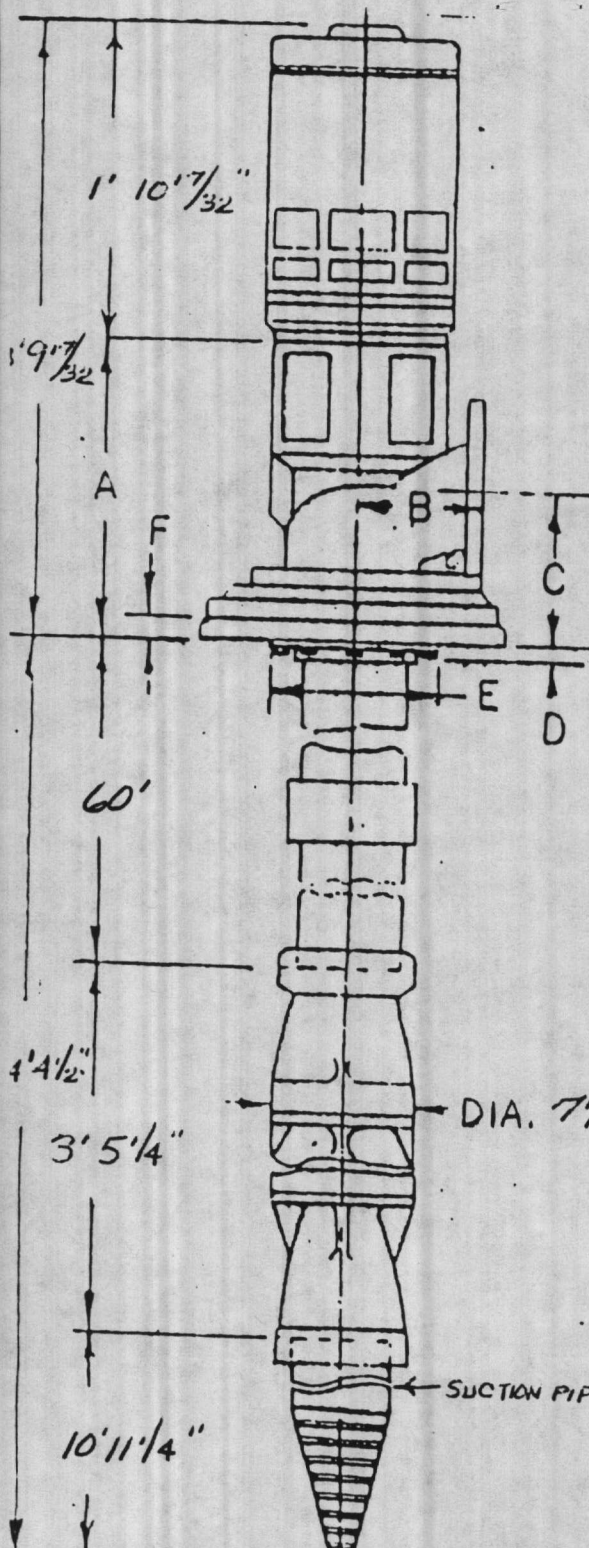
(32.25 + 46.20 + 2.30 = 80.75) used 81

Note 2. Please confirm overall setting.

JUNE 8, 1978

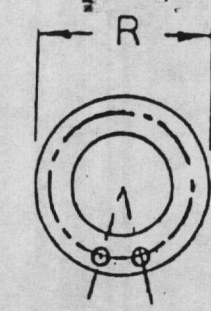






4-K DIA. HOLES

BASEPLATE TOP VIEW



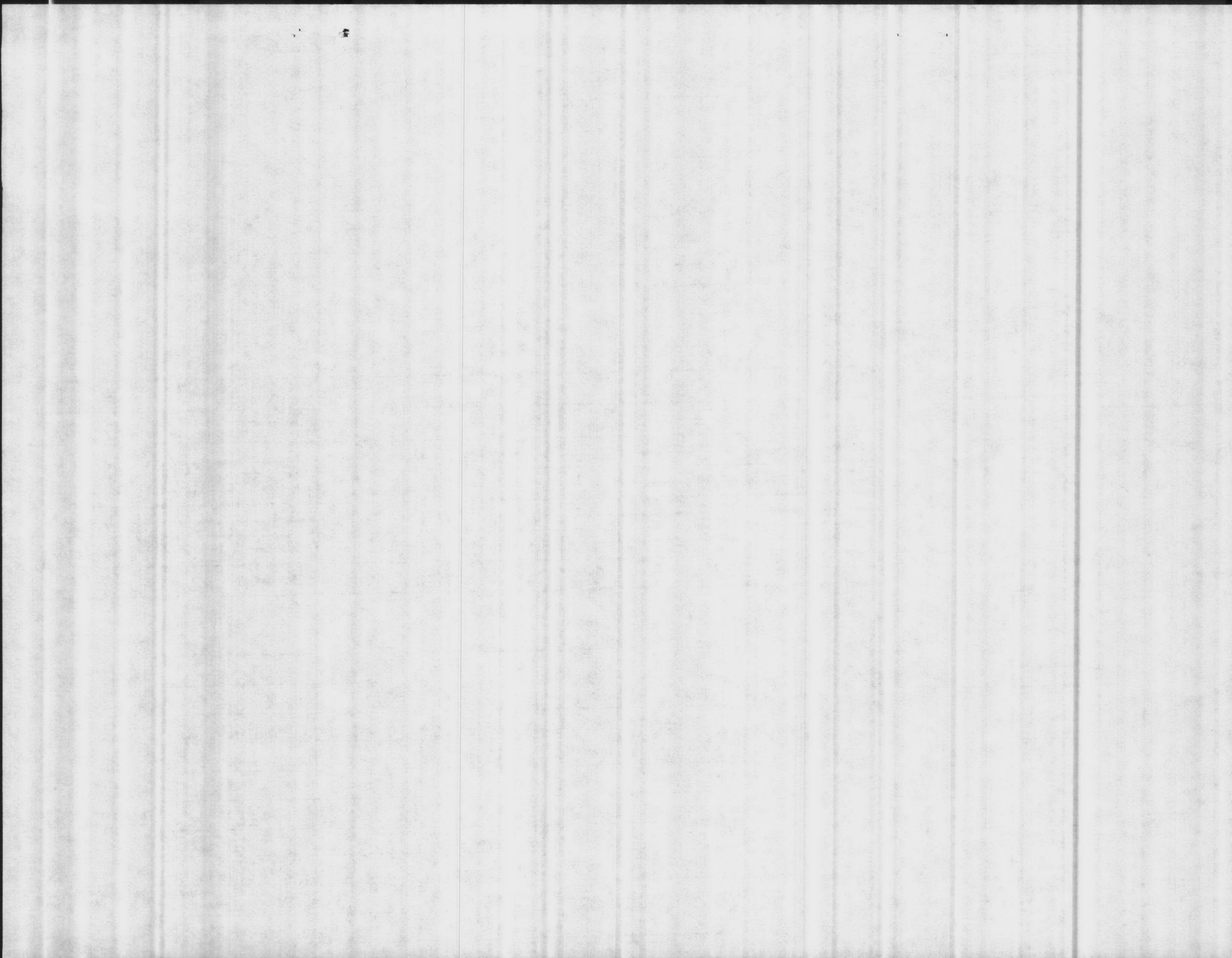
L-125 LB ANSI FLG  
M-N-HOLES ON  
P BOLT CIRCLE  
HOLES STRADDLE  
VERTICAL Q

HEAD	A	B	C	D	E	F	G	H	K	L	M	N	P	R
H16DL	23	11 3/8	10	1/4	14 3/4	1 7/8	24	19 3/4	7/8	6	8	7/8	9 1/2	11
H12D	23	8 1/4	10	1/4	14 3/4	1 7/8	24	19 3/4	7/8	6	8	7/8	9 1/2	11
H16DL	23	11 3/8	10	1/4	14 3/4	1 7/8	24	19 3/4	7/8	6	8	7/8	9 1/2	11
H16F	23	11 3/8	10	1/4	14 3/4	1 7/8	24	19 3/4	7/8	6	8	7/8	11 3/4	13 1/2
H16FL	23	11 3/8	10	1/4	14 3/4	1 7/8	24	19 3/4	7/8	8	8	7/8	11 3/4	13 1/2
H20K	23	13 1/8	10 1/2	1/4	14 3/4	1 7/8	24	19 3/4	1 1/8	10	12	1	14 1/4	16

N62470-76-B-6800

CERTIFICATION FOR	
CUSTOMER	EAST COAST CONSTRUCTION PO# 441
JOB & LOCATION	WELL "B" - MCAS CAMP LEJEUNE, N.C.
CONSULTING ENGINEERS	NAVAL FACILITIES, NAVAL STATION, NORFOLK, VA.
CONDITIONS	250 GPM 81' TDH 1800 RPM 74 1/2" SETTING
PUMP	CRANE DE MINIK 4 STAGE, M-8 Figure 4700 Vert. Turbine
MOTOR	GE Type K, 10HP, 1800 RPM, 3P, 60hz, 200VOLT, VHS, NRC WP
COLUMN & SHAFT	5" ZINC COATED T+C, 1" DIAMETER (WATER LUBIC)
SUCTION PIPE	10' of 5" ZINC COATED STRAINER 5" GALVANIZED CORNUCOPIA
SCALE - NONE	CERTIFIED BY RFD DATE: 6-7-78

CS



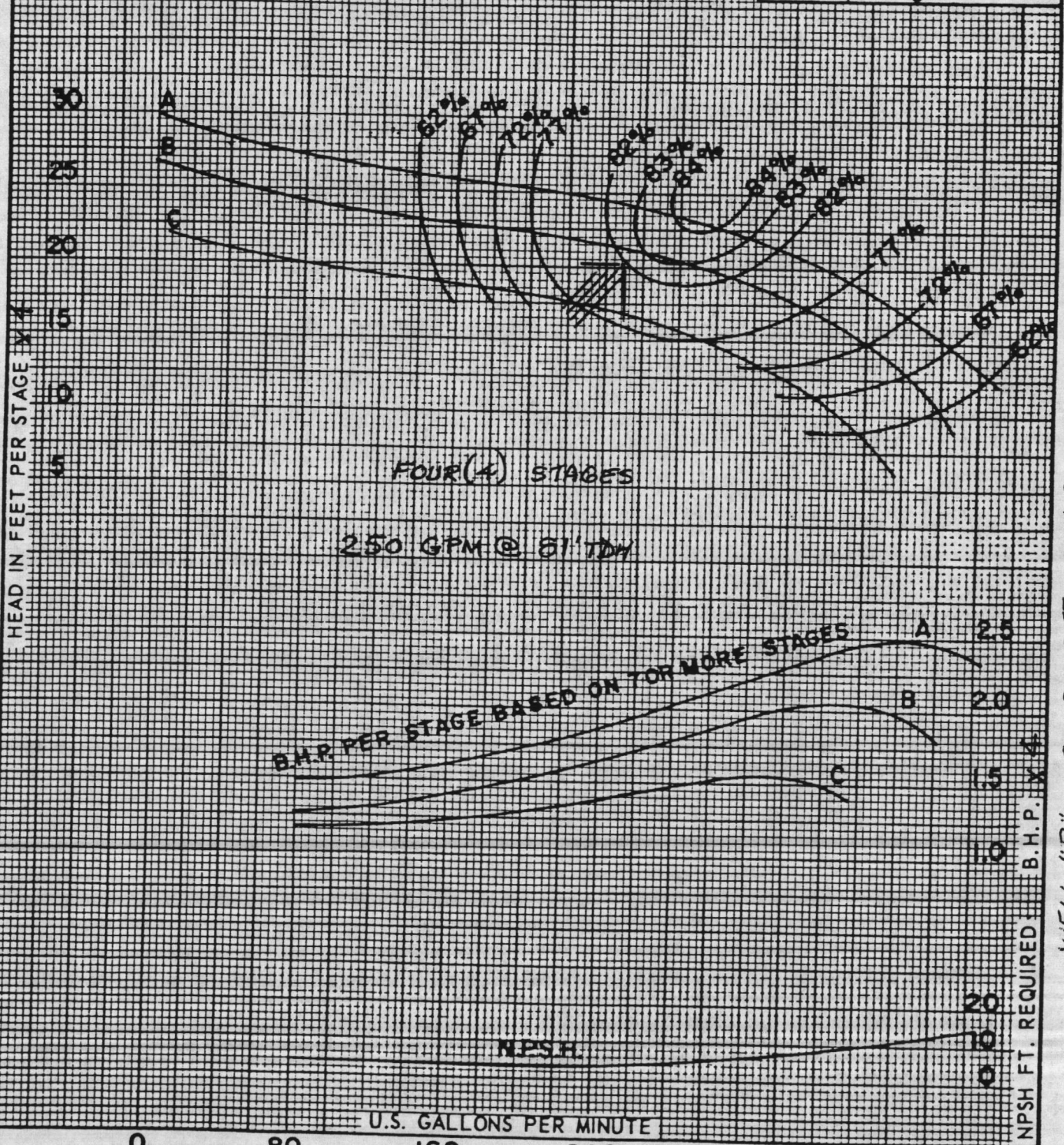
CS

**SIZE M-8 SINGLE STAGE PERFORMANCE 1770 R.P.M.**

<b>EFFICIENCY CHANGE:</b>		<b>DIMENSIONS</b>		FIG. 4700	FIG. 4750
—	STAGE DEDUCT	0	POINTS	7 1/2	7 1/2
—	STAGE DEDUCT	2	POINTS	7 1/2	7 1/2
—	STAGE DEDUCT	3	POINTS	18 3/4	22 3/4
—	STAGE DEDUCT	7	POINTS	7 1/2	7 1/2
ENAMELED BOWLS		THRUST FACTOR -		5.7	5.7

SUCTION - I.D. PIPE SIZE **5"** SIZE COLUMN ADAPTER **5" x 6" x 6"** **SEMI-ENC. IMPELLER NO. 22665**

FOR OVER <b>25</b> STAGES CHECK BOWL LIMITATION ENGINEERING SECTION	CURVE	IMPELLER DIAMETER
	A	5 13/16
	B	5 1/2
	C	5



250 GPM x 81' TDH = 20250  
3960 x .79 (e/f) = 3128

WELL "B" - CAMP LEJEUNE, N.C.  
N62470-76-B-6800



MEMO OF  
DATA TRANSMITTAL



CS  
Refer to G E Req'n No.  
In Correspondence

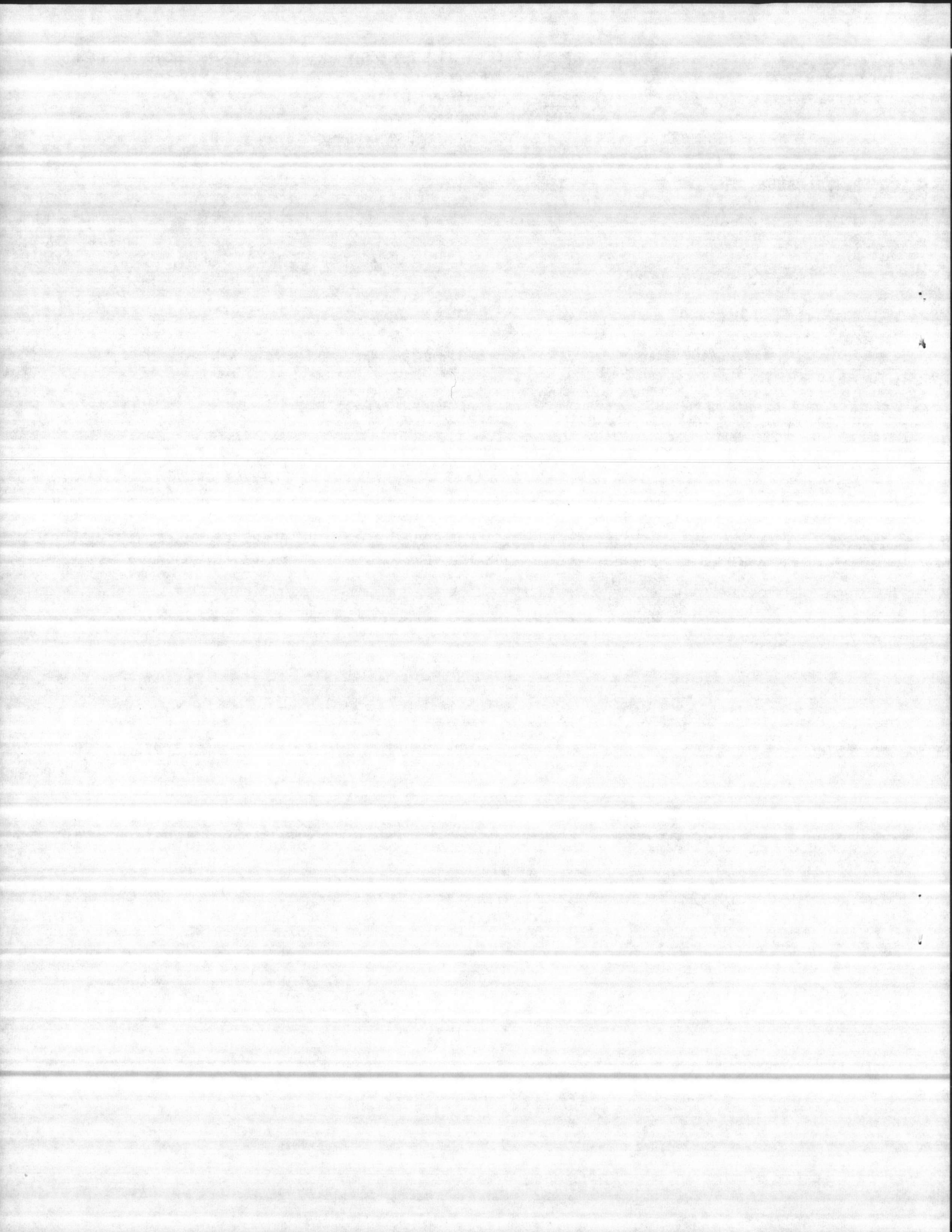
SMALL AC MOTOR & GENERATOR DEPARTMENT  
NASHVILLE MOTOR PLANT  
250 E. MAIN • HENDERSONVILLE, TENNESSEE 37075

CUSTOMER: Drillers Service Inc.  
P.O. Box 1407  
Hickory, N.C. 28601

CUSTOMER ORDER NUMBER		G. E. REQUISITION NUMBER	
4602-EPI		340-23284	
DATE	VIA	COMPLETE	BALANCE TO FOLLOW
FORWARDED: 11/16/77	First Class Mail	X	
PRINTS ARE:			
<input checked="" type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> APPROVED FOR CONSTRUCTION	<input type="checkbox"/> FOR REFERENCE	<input type="checkbox"/> .....

193B2601AA - Outline  
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Item 1 - New Model  
to be rated: K-L215TP10, 10 hp, 1800 RPM, 200 V, 3 ph, 60 hz, S.F. 1.15,  
CONT, B ins, 40oC amb, DRIPPROOF, VERTICAL HOLLOW SHAFT, HIGH THRUST



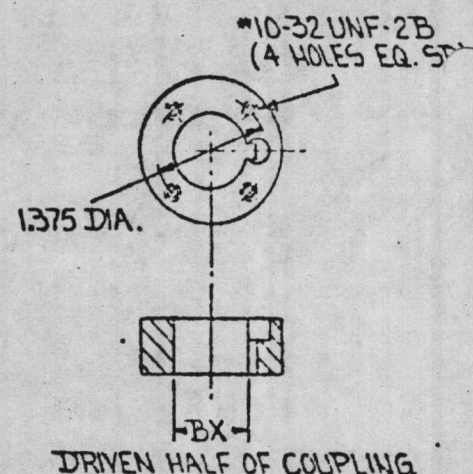
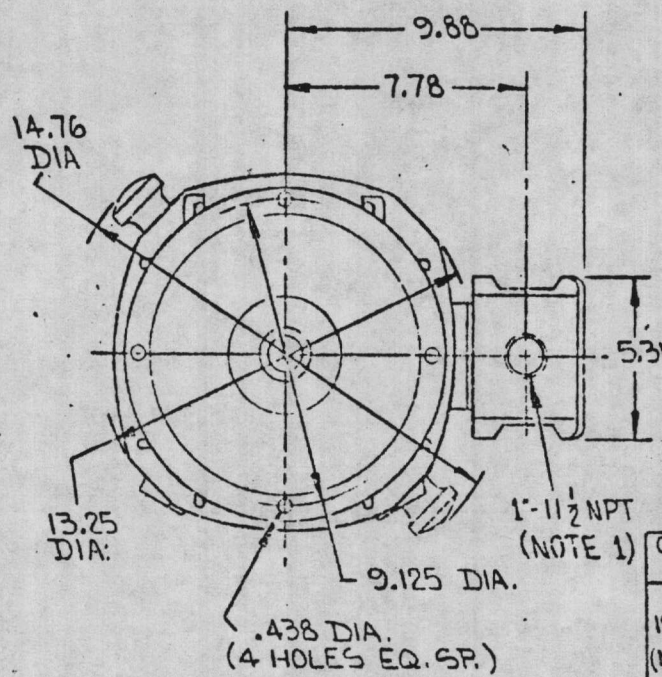
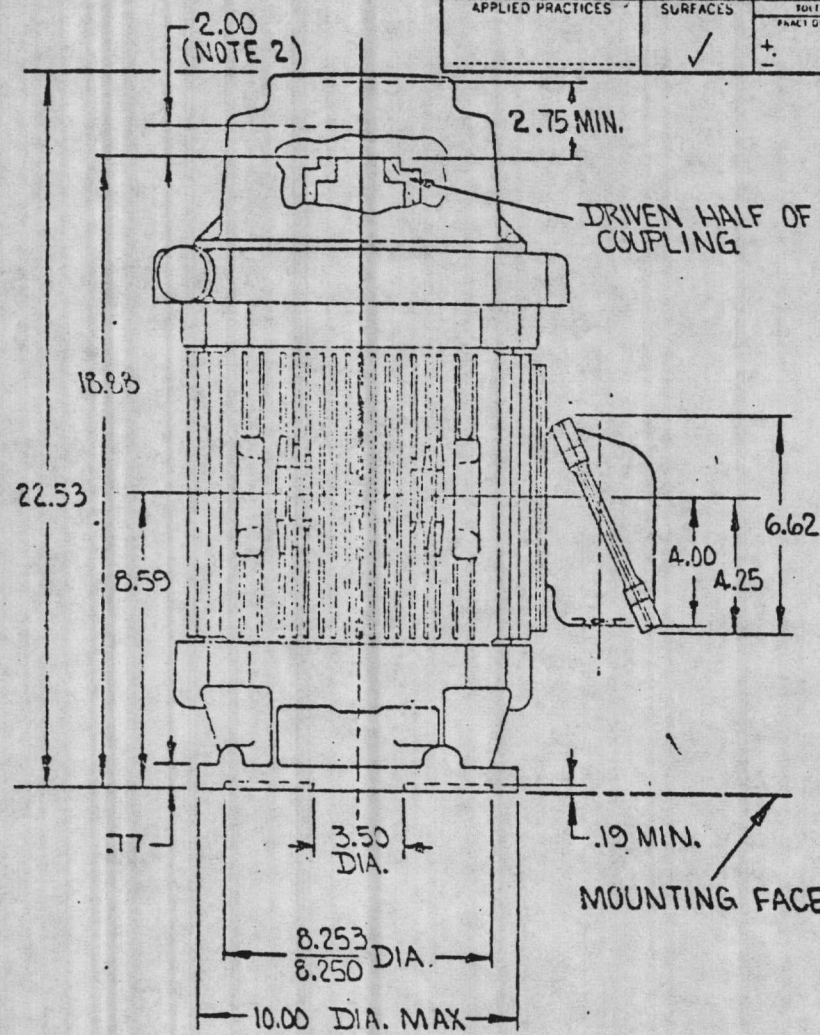
GENERAL ELECTRIC

193B2601AA

UNLESS OTHERWISE SPECIFIED USE THE FOLLOWING —

APPLIED PRACTICES	SURFACES	TOLERANCES ON MANUFACTURED DIMENSIONS		
		FRACTIONS	DECIMALS	ANGLES
	✓	±	±	±

REV NO 193B2601AA  
 TITLE **OUTLINE**  
 FIRST MADE FOR 210 FR. VERT. OPEN-P. BASE



COUPLING KIT	GR	BORE DIA BX	KEYWAY	
			W	D
192B9930AA (NON-REVERSE)	1	1.002 / 1.001	.250	.125
	2	.939 / .938		
	3	.877 / .876		
	4	.752 / .751	.168	.094
192B9930AC SELF-RELEASE & BOLTED	1	1.002 / 1.001	.250	.125
	2	.939 / .938		
	3	.877 / .876		
	4	.752 / .751	.168	.094

NOTE 1- CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN, OR TO EITHER SIDE.  
 NOTE 2- THE TOTAL HEIGHT OF PUMP SHAFT & LOCKING NUT ABOVE TOP OF COUPLING, MUST NOT EXCEED THIS DIMENSION.

REVISIONS	DATE	BY	APP'D
1	5 FIELD	REVISED PER 12-13-70 21-76-413	
2	M. SHELTON	2-7-77 AMT/01-E	

