

FILE FOLDER

DESCRIPTION ON TAB:

MCAS 1251 (R) well

- 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**

North Carolina Department of Environment, Health and
Natural Resources

TC 1257

Division of Environmental Management

WELL ABANDONMENT
RECORD

Groundwater Section

P.O. Box 27687

Raleigh, N.C. 27611

CONTRACTOR Cyclone Well Drilling

REG. NO. 2395

1. WELL LOCATION: (Show a sketch of the location on back of form.)

Nearest Town: Camp Geiger

County Chatham

North Carolina

Quadrangle No. _____

(Road, Community, Subdivision, Lot No.)

2. OWNER: U.S. Marine Corps

3. ADDRESS: Camp Geiger, N.C.

4. TOPOGRAPHY: draw, slope, hilltop, valley, flat

5. USE OF WELL: public DATE: 1/25/01

6. TOTAL DEPTH: 150' DIAMETER: 8"

7. CASING REMOVED:

feet	diameter
_____	_____
_____	_____
_____	_____

8. SEALING MATERIAL:

Neat cement	Sand cement
bags of cement <u>750</u> <u>4B5</u>	bags of cement _____
gals. of water <u>321</u>	yds. of sand _____
	gals. of water _____

Other
Type material _____
Amount _____

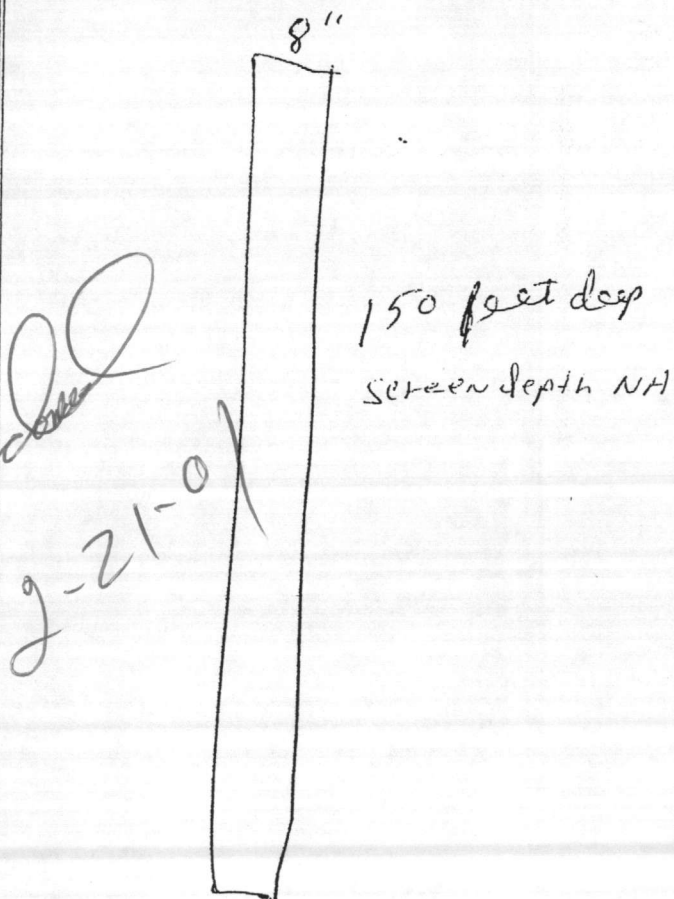
9. EXPLAIN METHOD OF EMPLACEMENT OF MATERIAL

pump

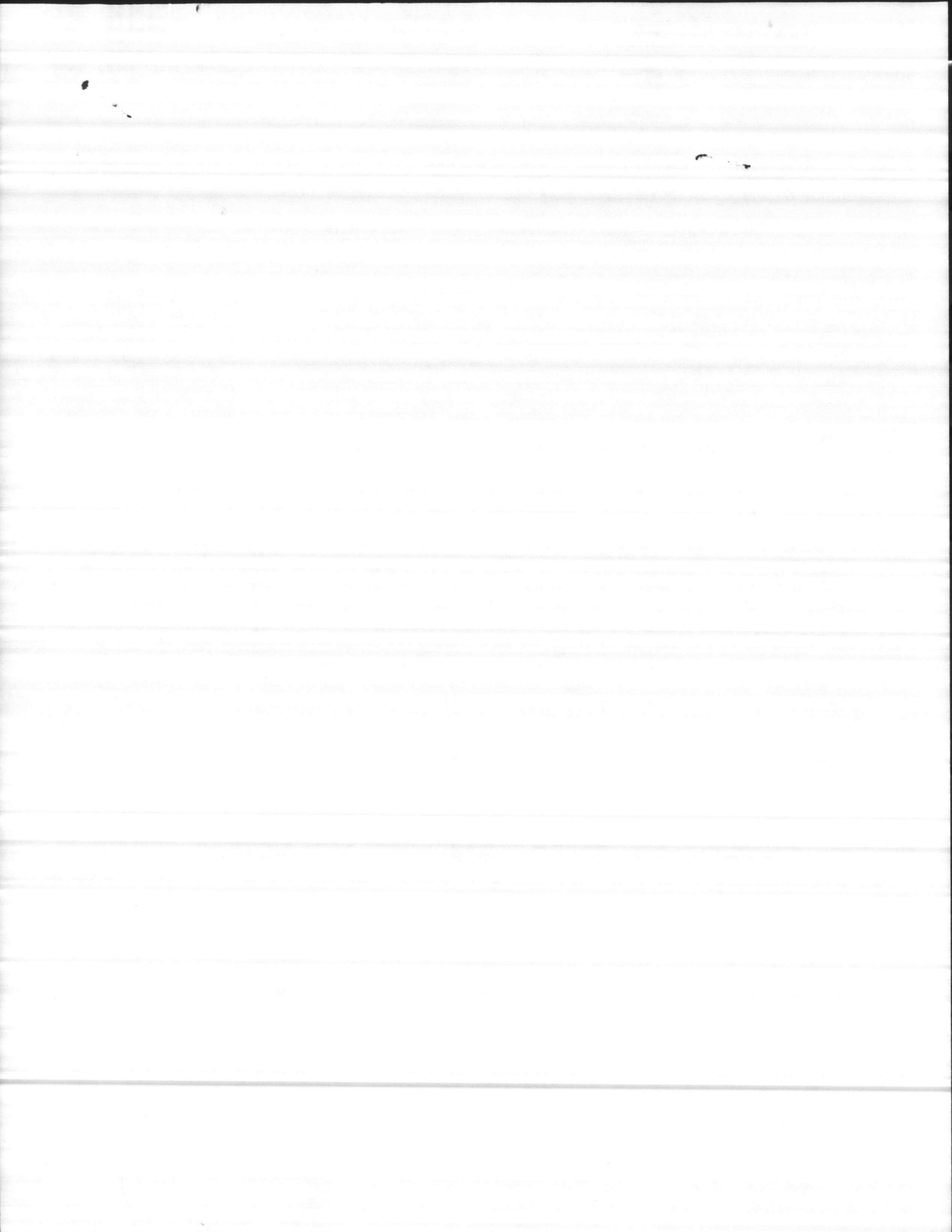
I do hereby certify that this well abandonment record is true and exact.

David S. Quinn 1/25/01
Signature of Contractor or Agent Date

WELL DIAGRAM: Draw a detailed sketch of the well showing total depth, depth and diameter of screens remaining in the well, gravel interval, intervals of casing perforations, and depths and types of fill materials used.



Provide the well owner a copy of this record.



SOURCE INFORMATION GROUND WATER

Date Form Completed

M	M	D	D	Y	Y
0	1	2	7	9	5

0
4
6
7
0
4
2

PWSID

Owner Assigned 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

251 MCAS WATER PLANT / 251

G

If Purchase, seller ID#

Source Begin Date

Source exempt—
SWTR? Y N

Direct Influence Date

Availability

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

Source Begin Date: M M Y Y: [][][][]
 Direct Influence Date: M M D D Y Y: [][][][][][]
 Availability: P

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

CURTIS ROAD

Latitude (N)

Longitude (W)

How Determined

GPS Data

No. of Sats. Locked on

3 4 4 3 2 9

0 7 7 2 7 1 0

G=GPS
 M=Map
 S=Surveyed

Q# or DOP #

(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

Availability

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

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

Owner Assigned Entry Point Code

Entry Point Name

400

MCAS NEW RIVER WTP

Location:

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

Sources of pollution/distance: 60' to Rd & R/W ditch @ 40' monitoring wells on site for prev. UST (removed)

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:

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): 200 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth [UNK] ft. (If unknown, put 'UNK') Well depth: 240 Meter available? (Y,N)

Concrete slab adequate? (Y,N) If no, explain: well not in center Size: 12x12

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

Pumps: Capacity: GPM: 183 HP: Pump intake depth: 20 Auxiliary Power? (Y,N)

Type pump: VERTICAL TURBINE Height above floor (pump/casing):

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

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

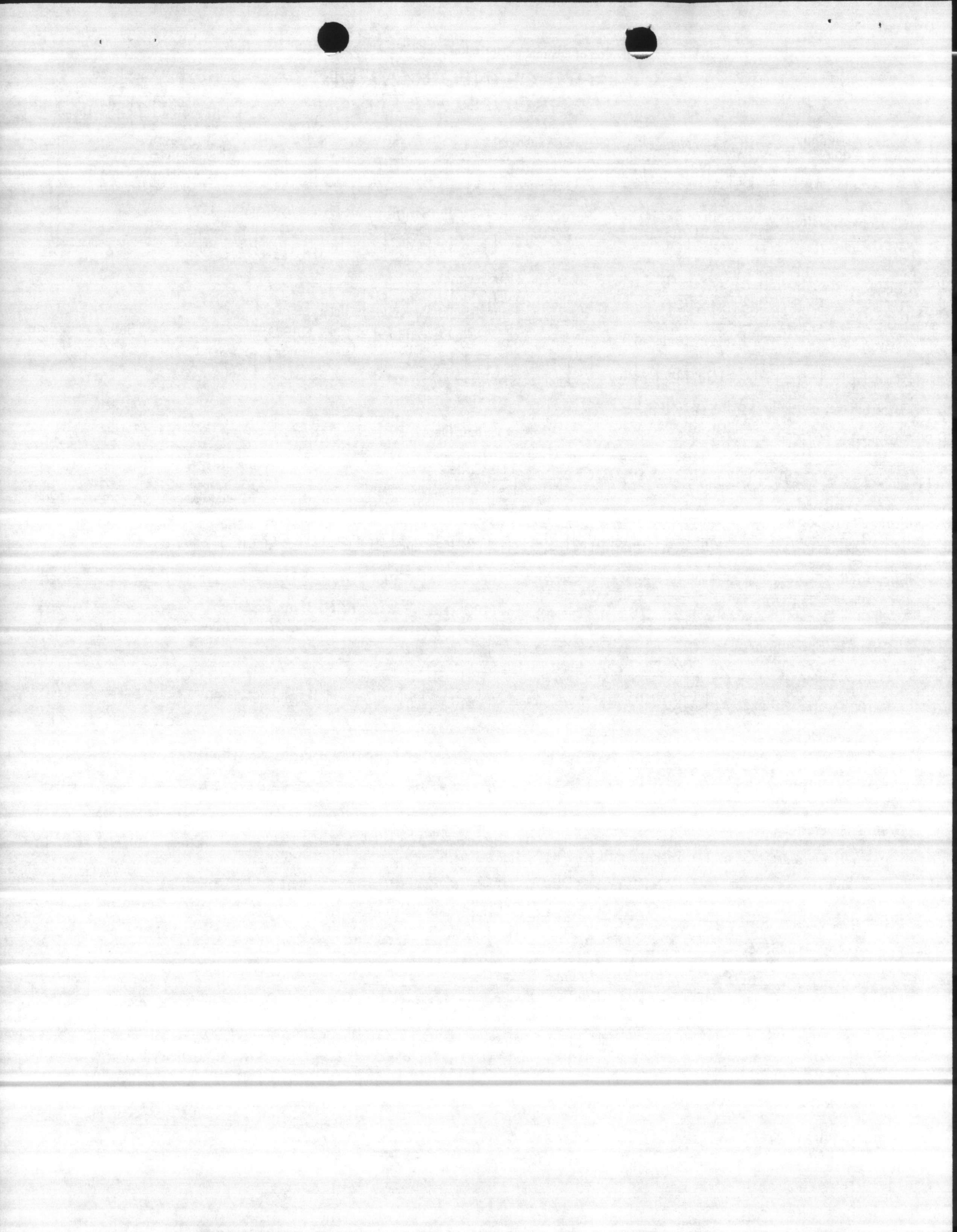
High service pumps: 1. gpm hp 2. gpm hp 3. gpm hp Auxiliary Power? (Y,N)

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 PLANT

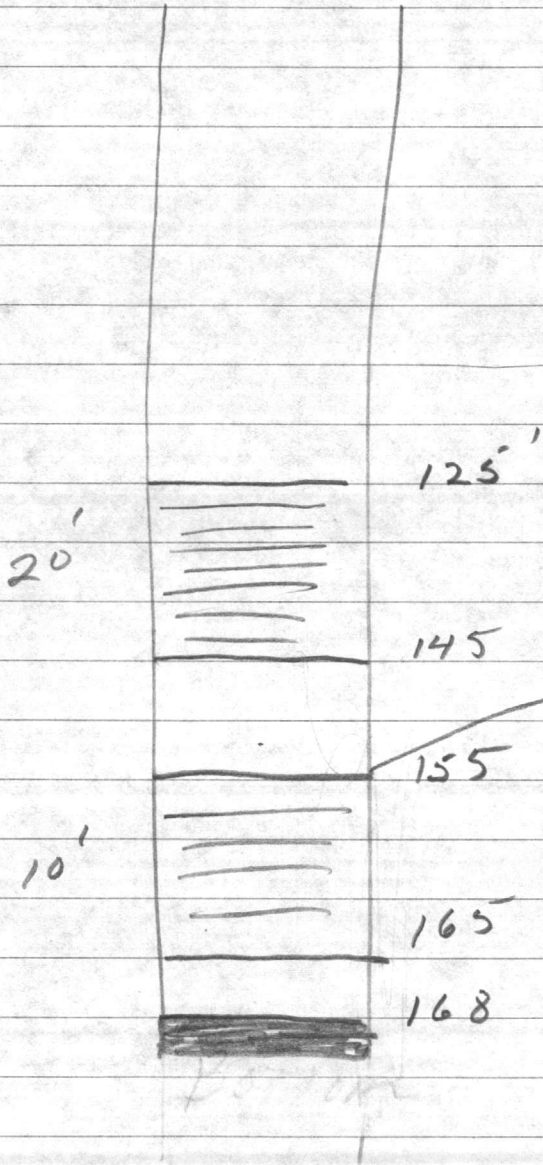
If purchase, retreat? (Y,N) If yes, complete back of form.

1) No vent
 2) No meter



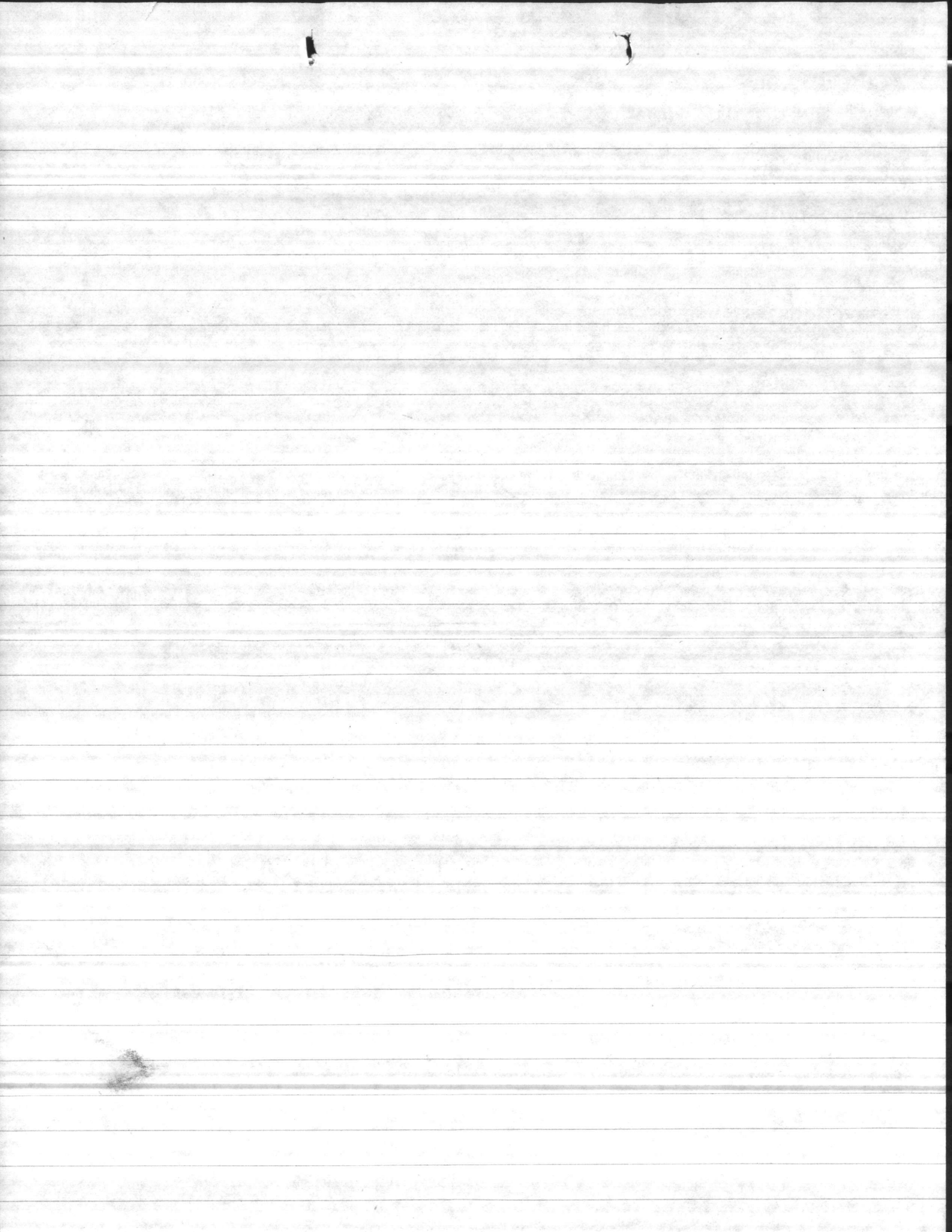
TC 125'

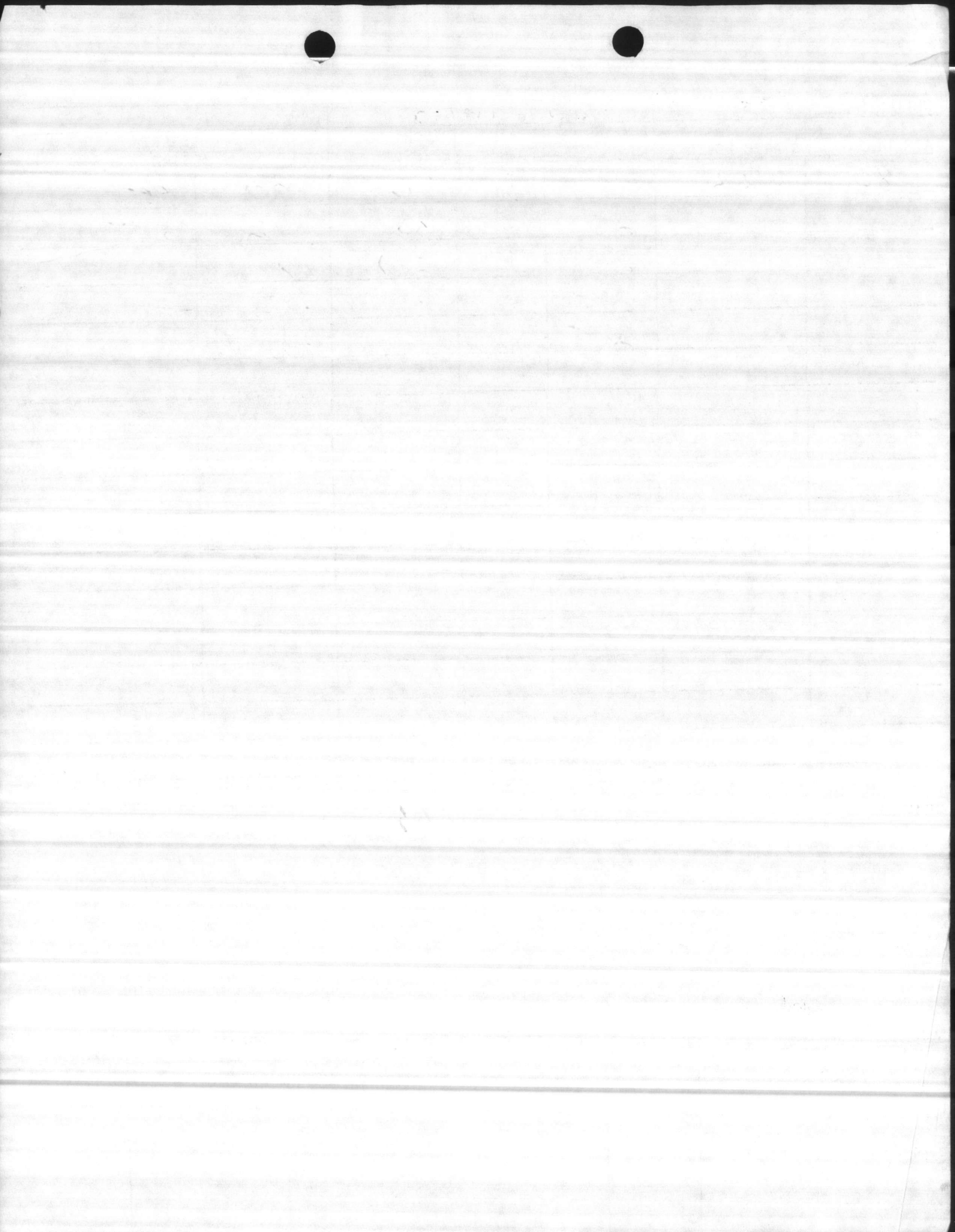
2-1-95



closed up

By Scott Berner
the week of
2-6-95



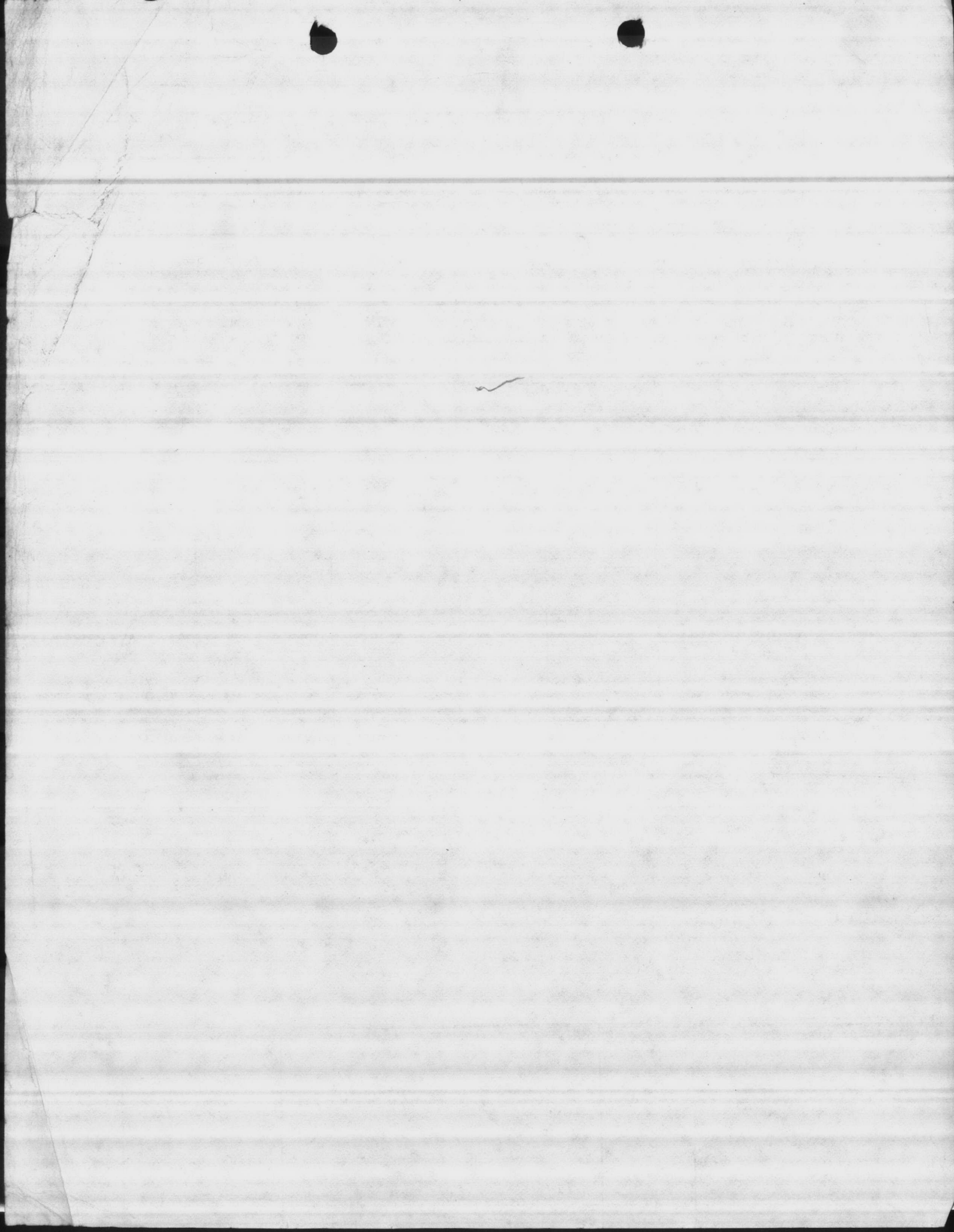


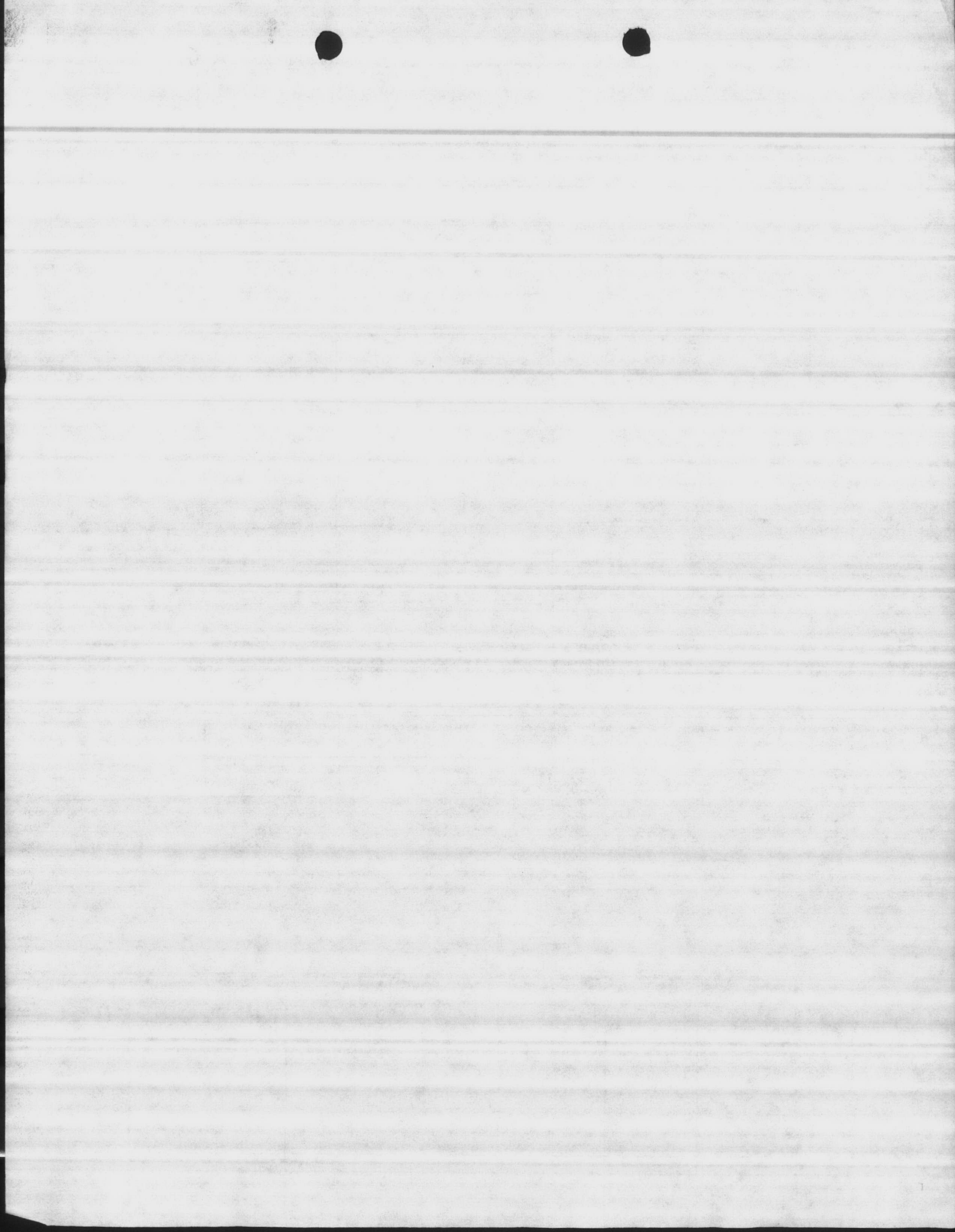
WELL NUMBER 1251		BY THOMAS STEVENSON			DATE 5-9-94	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
80	17	19	2	35	100	15
		20	3	30	125	25
		20	3	25	137	35
		20	3	20	159	45
		20	3	15	170	55
LEFT SET →		20	3	10	183	05

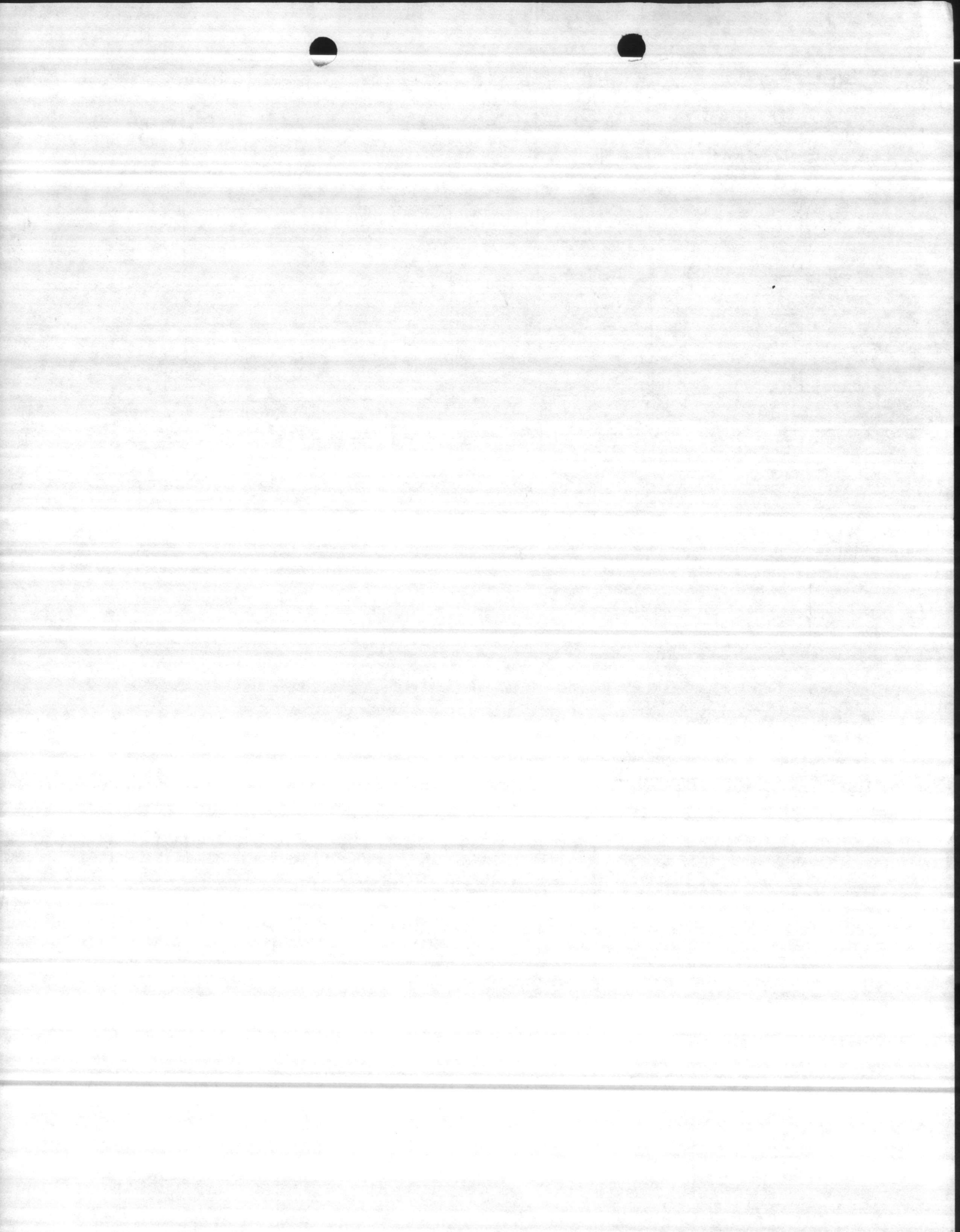
REMARKS

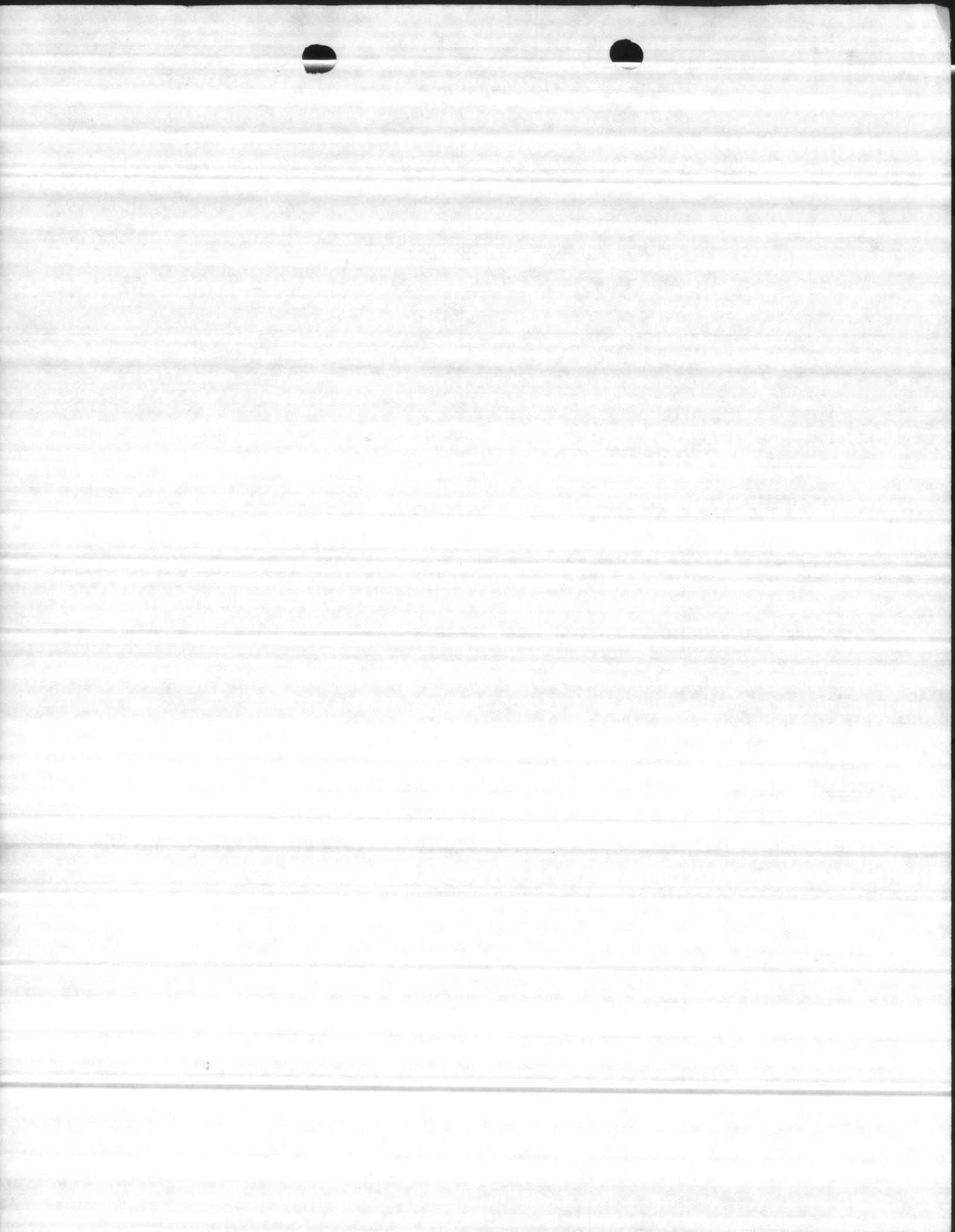
Dead head @ 55

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE







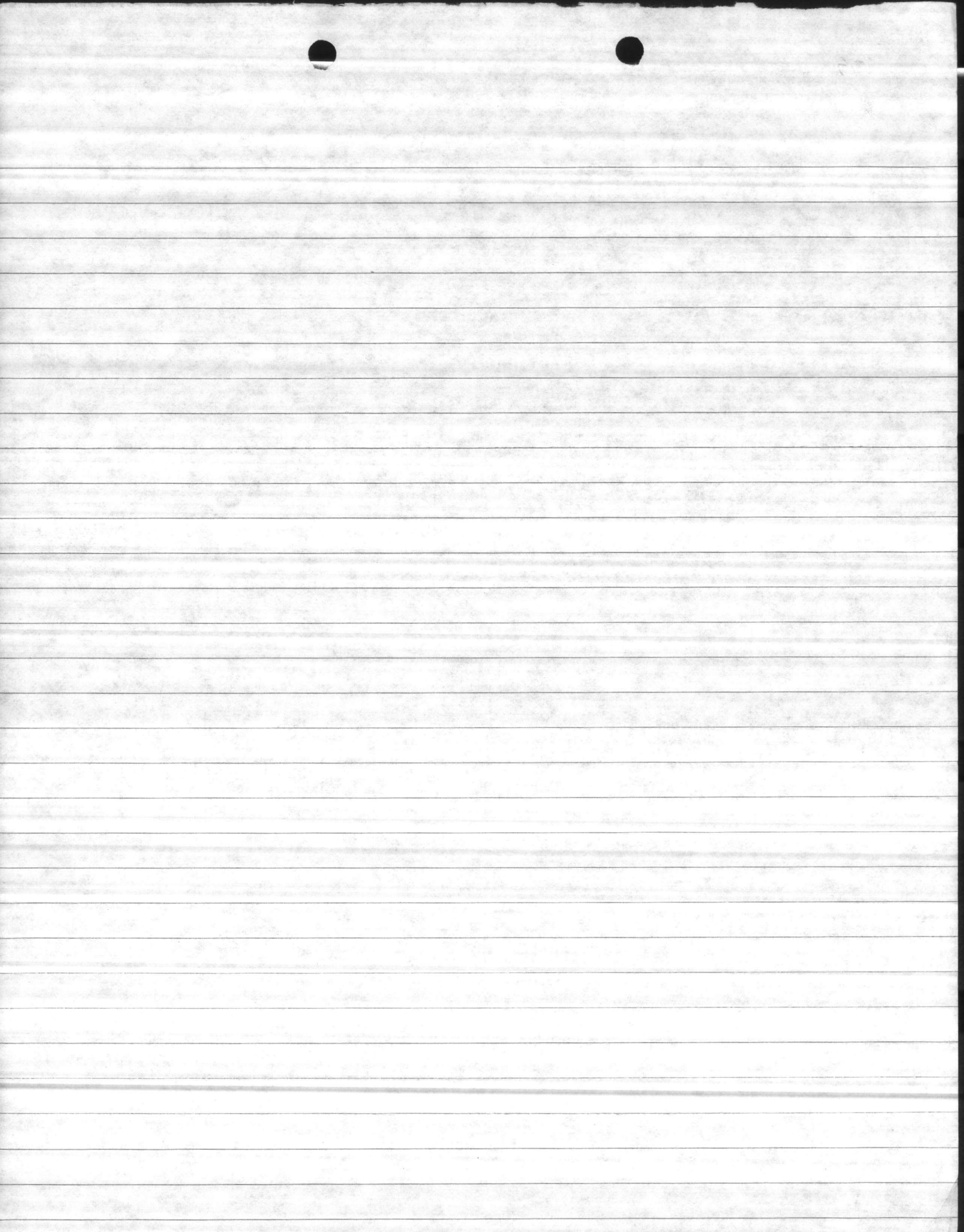


AS 1251

10-8-85

AL	SL	PL	DD	PSI	GPM	TIME
80	25	25	-	37	100	15
		25	-	34	115	15
		25	-	30	133	15
		26	1	26	149	15
		26	1	20	175	15
		26	1	15	190	15

Left set at 20 PSI 175



1251

DATE
July 29, 82

LENGTH
OF
AIR LINE

STATIC
LEVEL

PUMPING
LEVEL

DRAW
DOWN

DISCHARGE
PRESSURE

CAP. PER
FOOT OF
DRAW DOWN

Time
TIME
TIME

'80'

23'

24'

1'

39

104

1050

25'

2'

36

119

1115

25'

2'

33

133

1130

25'

2'

30

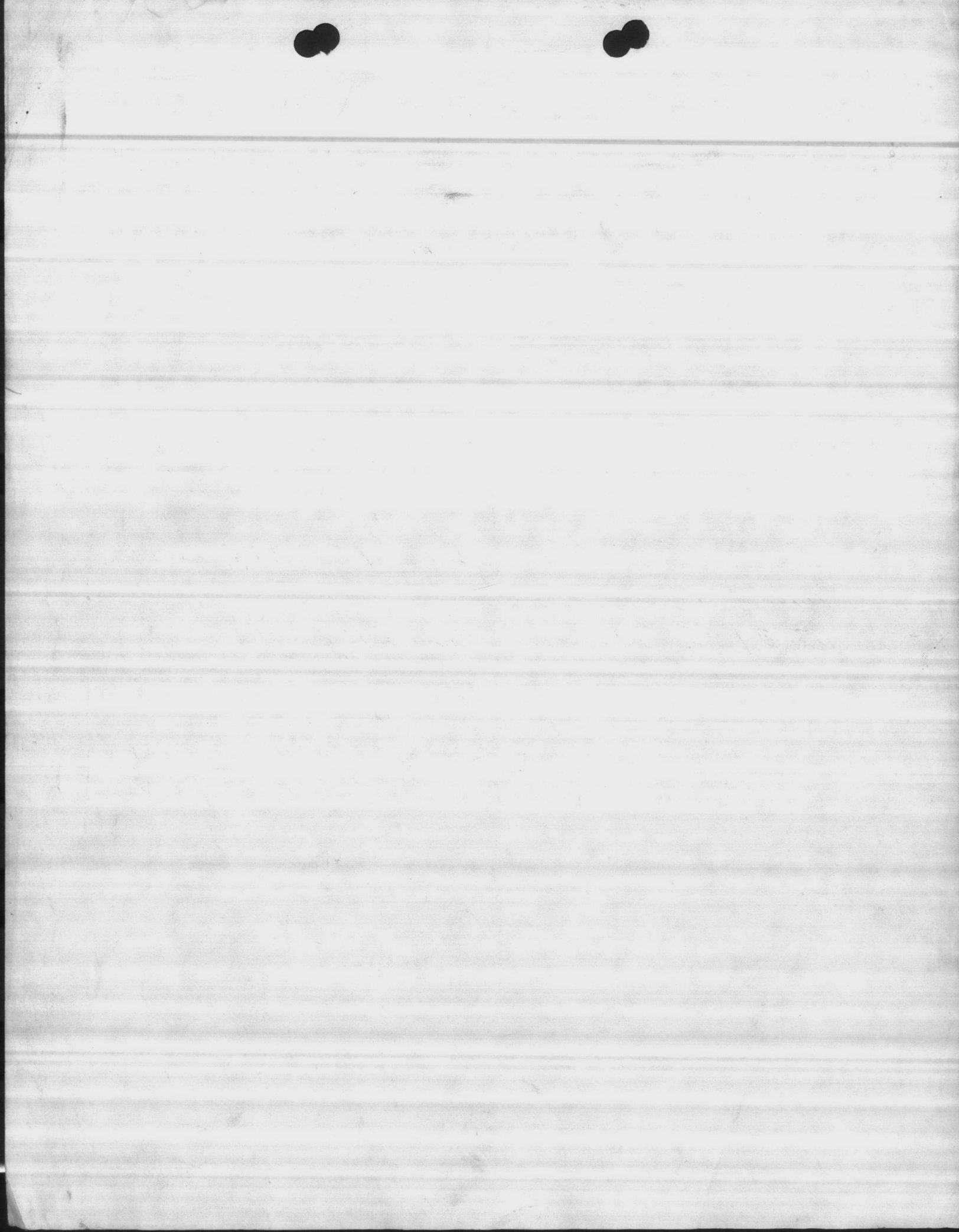
146

1145

REMARKS:

test set at 30 PSI 146 GPM
used direct reading gage
at 0 PSI 199 GPM bar at 27' pumping level

NO. OF
WELLS
TESTED
DATE



#25

Floating Aerators • Water & Sewage Pumps • Sewage Lift Stations



ENVIRONMENTAL PRODUCTS INC.

P. O. BOX 2385 HICKORY, NORTH CAROLINA 28601 TELEPHONE 704/322-7003

Prepared For: Carolina Well & Pump Company
 Project: N62470-73B-1155
 Location: New River Utilities Expansion - MCAS (Helicopter)
 Subject: Well "R"
 Conditions: 150 GPM @ 110' TDH, 1770 RPM - Setting 86' 15/8"

Description:

APPROVED Crane Design Figure 4700, size XH6,
 2 stage bowl assembly, with SD-44-10
 discharge head, seven feet of 4" x 1 1/4" column
 and shaft, for the above design conditions,
 water lubricated with suction pipe, strainer.

BY: MJE Johnson Model HA-15, 1:1 ratio right angle
 gear drive, and 7 1/2 HP, 1800 RPM, 3 phase,
 DATE: 6-13-75 60 cycle, ~~230~~²⁰⁰ volt, vertical hollow shaft
 motor, with non-reverse ratchet, 1.15 service
 factor, 213TPI0 frame, open drip proof,
 WP-1 enclosure.

April 10, 1975

Approved subject to Water & Sewer Dept. & Dept. of Public Works

EXHIBIT

Subject to the City Engineer's Approval

APPROVED
SUBJECT TO REQUIREMENTS
SPECIFICATIONS

DATE: 12/15/1911

Well "R"
Base # 25

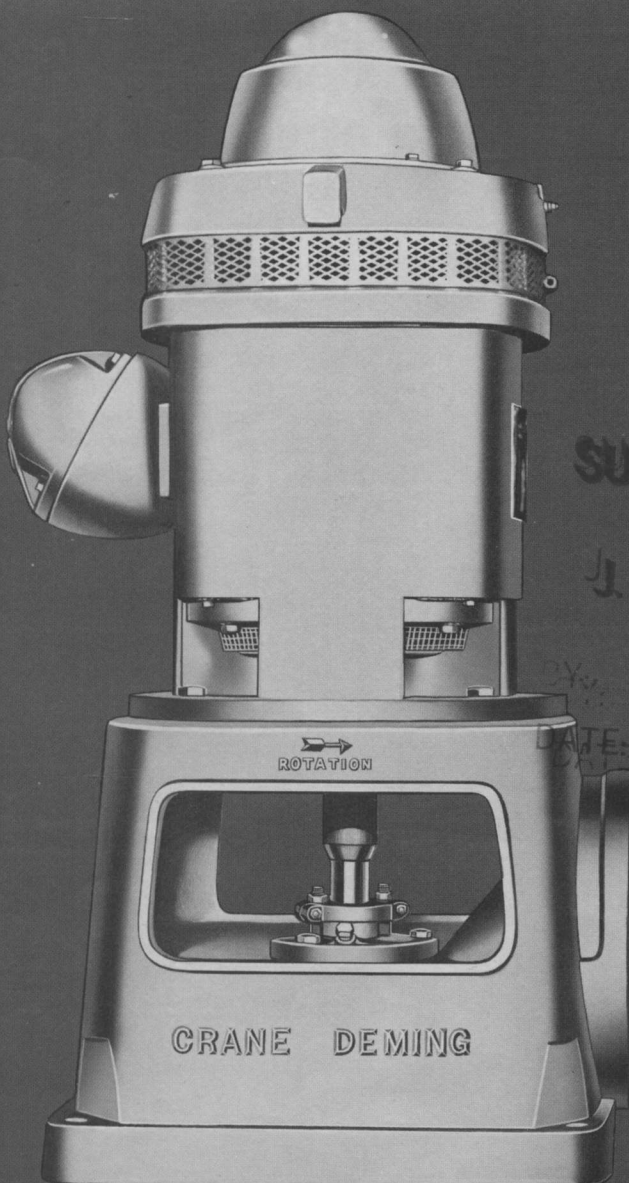
CRANE

DEMING

BULLETIN NO. 4700B

Water and Oil Lubricated

VERTICAL TURBINE PUMPS



APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS
J. K. TIMMONS & ASSOCIATED
(CONSULTING ENGINEERS)

By: MZS

DATE:

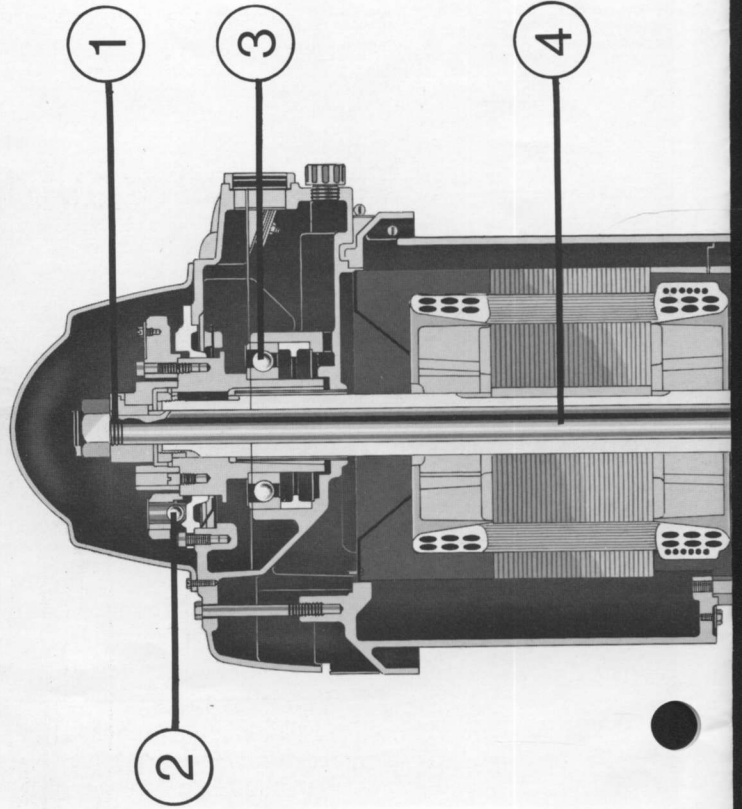
PRECISION ENGINEERED TO FILL EVERY MUNICIPAL, INDUSTRIAL & AGRICULTURAL REQUIREMENT

CRANE DEMING

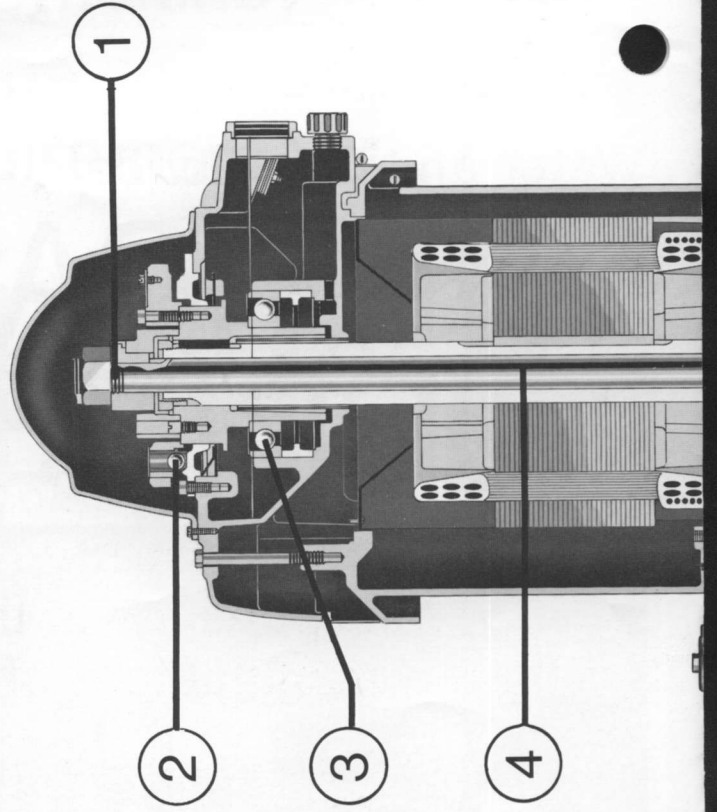
VERTICAL TURBINE PUMPS

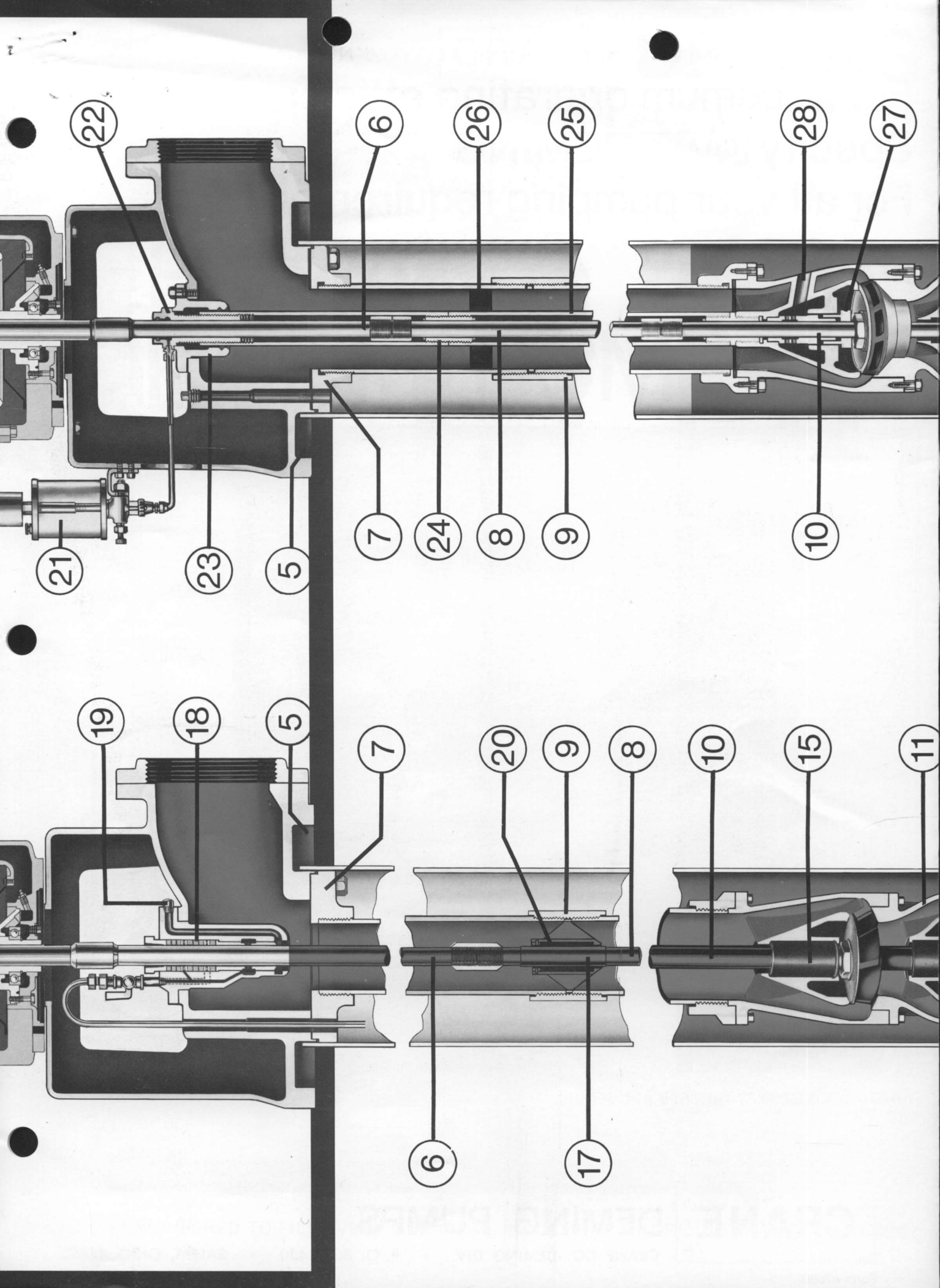
precision engineered to fill every municipal, industrial & agricultural requirement

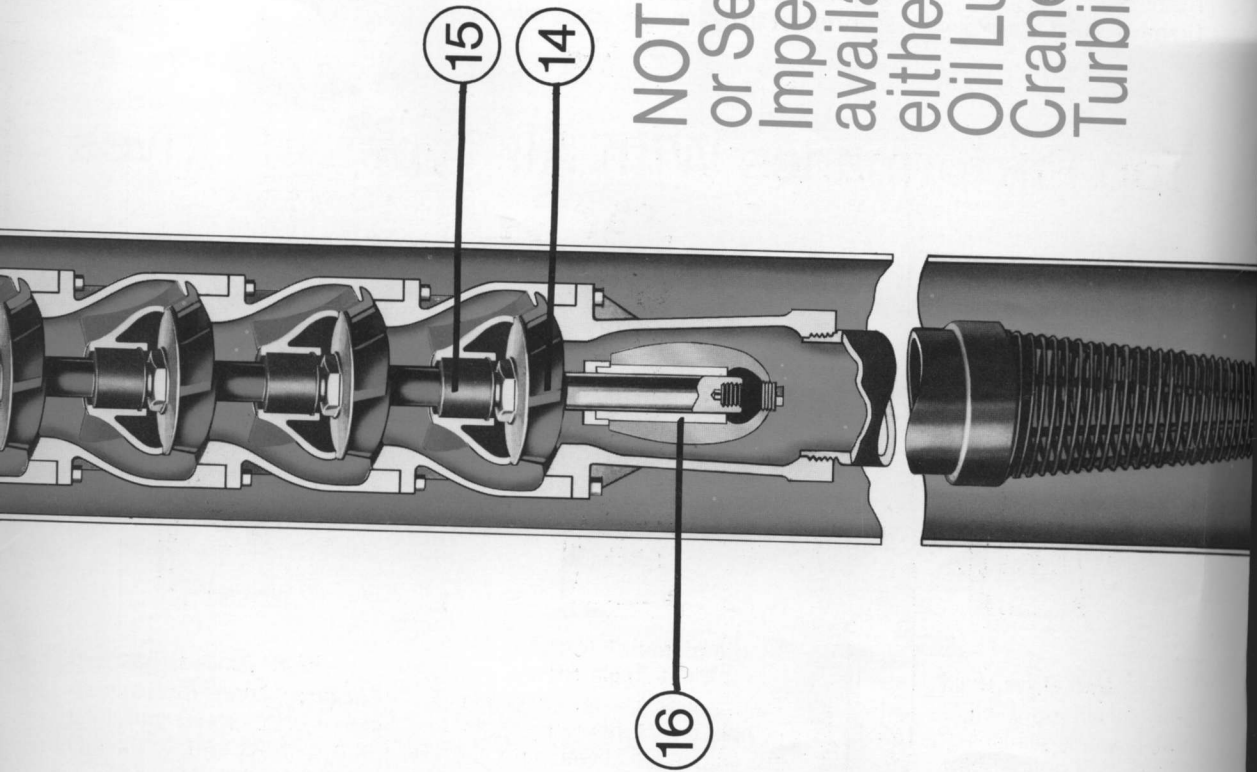
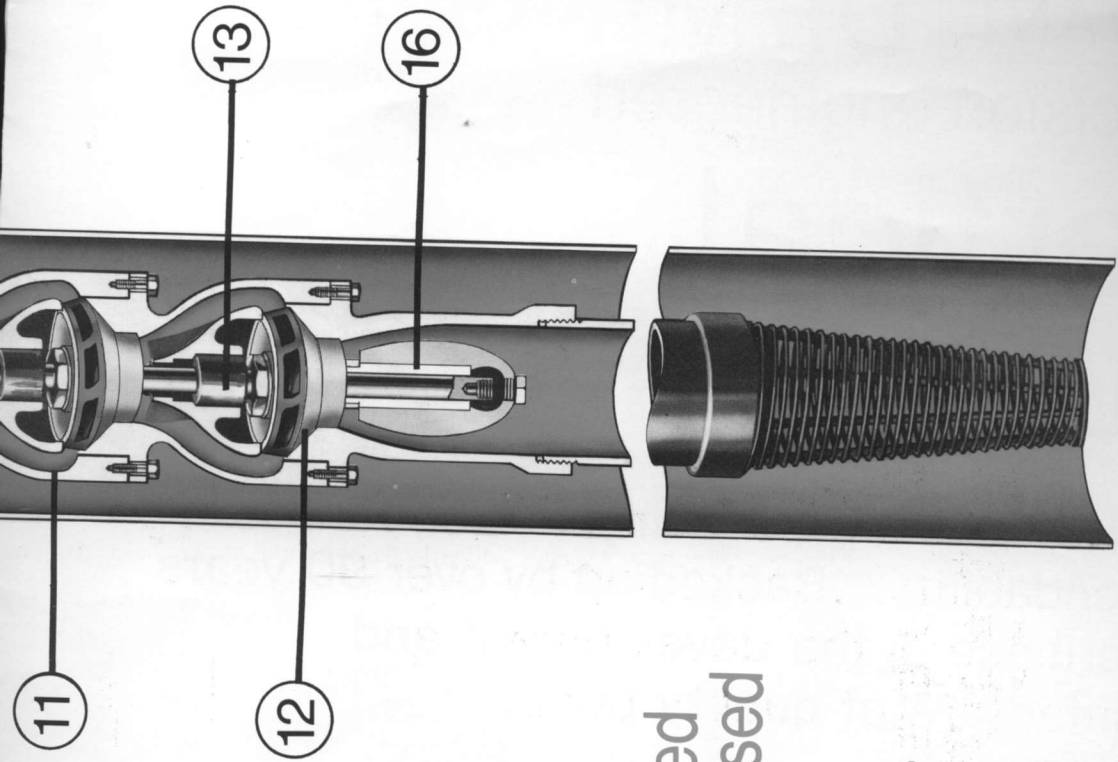
WATER LUBRICATED



OIL LUBRICATED







NOTE: Enclosed
 or Semi-Enclosed
 Impellers are
 available on
 either Water or
 Oil Lubricated
 Crane-Deming
 Turbine Pumps

Crane Deming quality design features provide longer life...lower operating costs

OIL AND WATER LUBRICATED

- 1. IMPELLERS EASILY ADJUSTABLE** — with adjusting nut located at top of motor.
- 2. RATCHET PREVENTS BACKSPIN** — and avoids damage to pump in case of phase reversal.
- 3. HEAVY-DUTY THRUST BEARING** — cooled by air entering motor.
- 4. SEPARATE HEADSHAFT** — with coupling in pump head facilitates installation. Permits changing drives without raising pump.
- 5. BASE OF HEAD RECESSED** — permits casing or sleeve to extend above foundation as required by many Public Health Departments.
- 6. STAINLESS STEEL STUFFING BOX SHAFT** — may be inverted to renew wearing surface.
- 7. FLANGED HEAD CONSTRUCTION** — facilitates assembly of column and discharge head. Maintains accurate alignment between motor and column shaft assembly.

- 8. HIGH STRENGTH LINE SHAFT** — of heat treated steel, ground and polished — one-third stronger than ordinary shaft.
- 9. COLUMN COUPLINGS** — machined with 8 pitch threads for tight fitting butt joints.
- 10. STAINLESS STEEL IMPELLER SHAFT** — specially heat treated, ground and polished for longer life.
- 11. STREAMLINED BOWL PASSAGEWAYS** — enameled to reduce friction and give greater pump efficiency.
- 12. ENCLOSED BRONZE IMPELLERS** — have completely finished surfaces for maximum efficiency.
- 13. BRONZE BOWL BEARINGS** — on all enclosed impeller pumps.
- 14. SEMI-ENCLOSED BRONZE IMPELLERS** — have completely finished surfaces for greater efficiency.
- 15. RUBBER BOWL BEARINGS** — on all semi-enclosed impeller pumps.
- 16. ENCLOSED BRONZE BEARING** — in suction bowl, protected with sand cap and packed with non-soluble grease.

WATER LUBRICATED ONLY

- 17. STAINLESS STEEL SHAFT SLEEVES** — welded to shaft. Specially heat treated, ground and polished for maximum resistance to wear and corrosion. Replaceable in the field.
- 18. ACCESSIBLE EXTRA-DEEP STUFFING BOX** — with controlled lubrication for long packing life.
- 19. PRE-LUBRICATION CONNECTION** — through stuffing box distributes water around shaft for proper lubrication before start up.
- 20. WATER LUBRICATED SHAFT BEARINGS** — fluted, resilient rubber shaft bearings are lubricated by water flowing through the pump. Bearings are held in place by a machined bronze bearing retainer secured between two pipe ends.

OIL LUBRICATED ONLY

- 21. AUTOMATIC LINE SHAFT LUBRICATOR** — on motor driven units — opens when pump starts, closes when it stops.

- 22. BRONZE TUBING TENSION NUT** — is easily accessible for placing tube under proper tension — also provides close fitting bearing in pump head.
- 23. TUBING HEAD ADAPTER WITH "O" RING** — assures water tight seal around shaft enclosing tube.
- 24. BRONZE LINESHAFT BEARINGS** — provide accurate alignment for line-shaft and a coupling for enclosure tube. A spiraling internal oil groove permits uniform bearing lubrication and by-pass of oil to bearings below.
- 25. HEAVY-DUTY TUBULAR STEEL SHAFT ENCLOSURE TUBE** — protects lineshaft. Specially machined for accurate bearing alignment.
- 26. ENCLOSURE TUBE STABILIZERS** — reinforced rubber "spiders" are regularly spaced to maintain enclosure tube alignment.
- 27. BEARING PROTECTING SLINGER** — prolongs bearing life by preventing entrance of sand into top bowl bearing.
- 28. RELIEF PORTS IN TOP BOWL** — prevent water from rising in tube above water level in well.

Specifications subject to change without notice

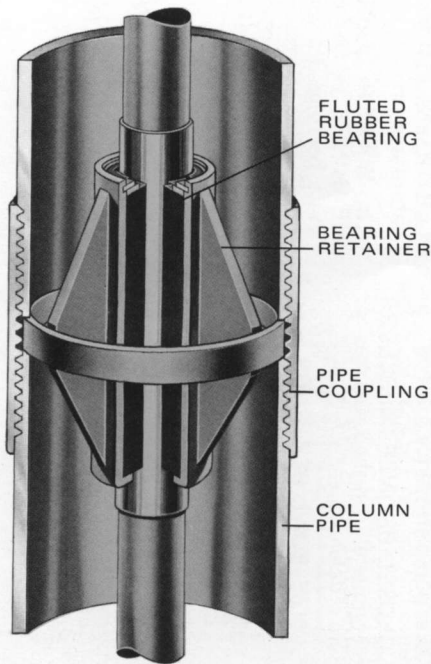
WATER OR OIL LUBRICATED

Crane Deming Vertical Turbine Pumps are available with either oil or water lubrication. The basic difference is in the construction of the lineshaft, its supporting mechanism and the bearings supplied with each. Either type may be furnished with semi-enclosed or enclosed impeller design.

WATER LUBRICATED CONSTRUCTION

Crane Deming water lubricated pumps are lubricated by the water that is being pumped, and require no supplemental lubricants or maintenance.

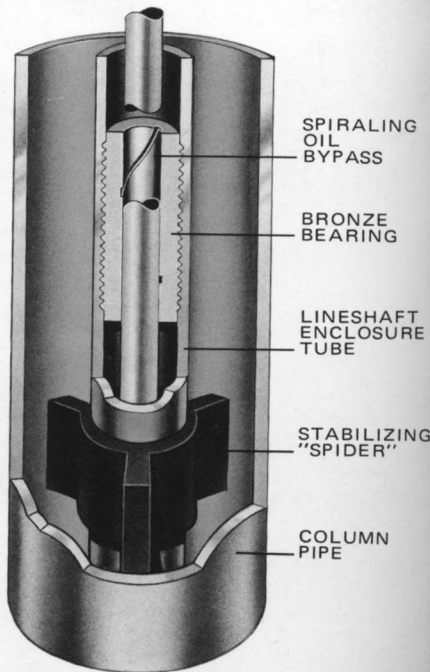
Water lubricated construction includes high strength steel lineshaft and rubber bearings throughout.



Bronze lineshaft bearing retainers are centered in each pipe coupling — tightly secured between the two pipe ends. Retainers are precision cast and machined to house the water lubricated, resilient rubber bearings and assure perfect vertical alignment of pump lineshaft. Rubber bearings are fluted to provide adequate lubrication and permit sand and other abrasive particles to flow through.

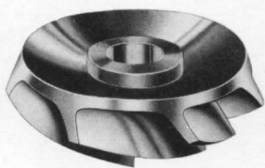
OIL LUBRICATED CONSTRUCTION

Oil lubricated construction has an enclosed lineshaft with bronze bearings used throughout. A heavy-duty steel enclosure tube contains the lubricating oil around the lineshaft and bearings, and shields both from foreign matter and corrosion.

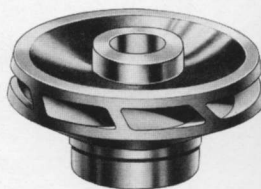


In standard construction, machined bronze bearings are spaced every five feet to assure true pumpshaft alignment and smooth, quiet operation. Bearings are threaded and also serve as a coupling for lineshaft enclosure tubing. A spiraling groove in the bearing inner wall provides uniform oil distribution over the lineshaft surface and permits oil passage through the bearing to each succeeding bearing below. Reinforced rubber "spiders" are spaced at regular intervals to center the enclosure tube in the column pipe.

IMPELLERS



Corrosion-resistant bronze semi-enclosed impellers are easily adjustable at the top of the driver to handle changes in well capacity or ground conditions. Impellers can be temporarily adjusted upward to avoid pump wear when clearing a sandy well. Top pump efficiency can easily be maintained.



Enclosed impellers are high quality corrosion-resistant bronze with completely finished surfaces. The hydraulic design developed from years of engineering experience assures maximum efficiency with minimum operating costs in Crane Deming Vertical Turbine Pumps.

CRANE DEMING

precision engineered

Vertical Turbine Pumps

offer Unequaled Economy, Performance and Dependability... Backed up by over 90 years experience in the development and manufacture of quality pumps.

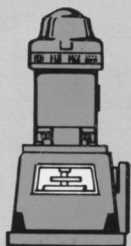
Crane Deming vertical turbine pumps are scientifically engineered and constructed of top quality materials to provide years of dependable service.

Close tolerance machining to increase operating efficiency — precision balancing of moving parts to eliminate vibration — special heat treating to reduce maintenance — using bronze to combat corrosion — stainless steel at critical wear points . . . Crane Deming has expended every effort to design

and build a pump that runs smoother, lasts longer and yet stays in line with competition. The pumps described in this bulletin are the result of this manufacturing philosophy — no short cuts — no sacrificing of quality.

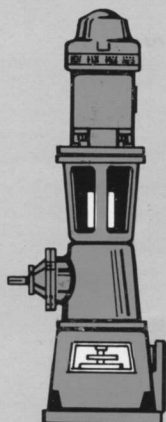
Over 90 years of research, engineering and manufacturing experience stand behind your selection of a Crane Deming Vertical Turbine Pump. It will prove a wise choice.

Top Performance With All Types of Drives



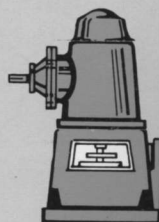
Unit Drive Head

For installations where electric power is available the Unit Drive with hollowshaft motor is compact, quiet and efficient.



**Combination Motor —
Right Angle Drive**

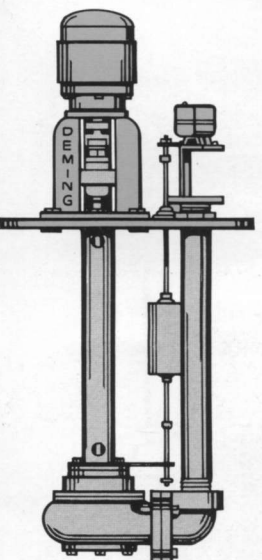
For municipal water works and installations where an auxiliary source of power must be available at a moment's notice.



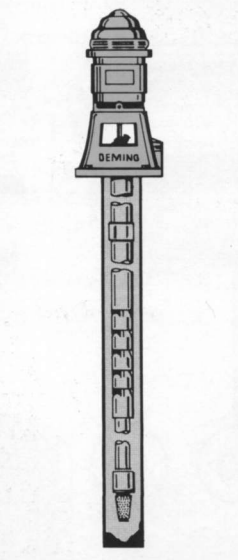
Right Angle Drives

For direct connection to gasoline or diesel power unit. Gear ratio permits unit to operate at the most economical speed.

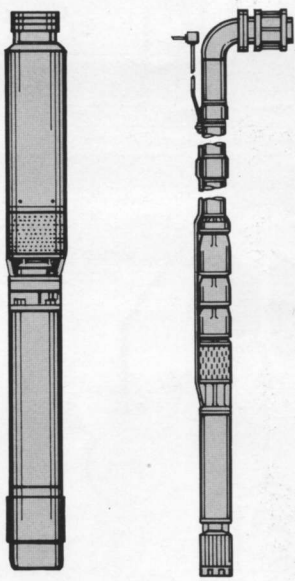
For Maximum operating efficiency Specify **CRANE** DEMING For all your pumping requirements



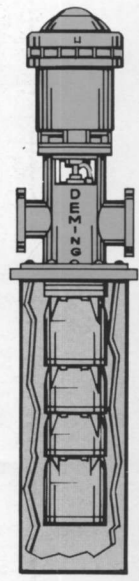
Sewage Pumps and
Cellar Drainers



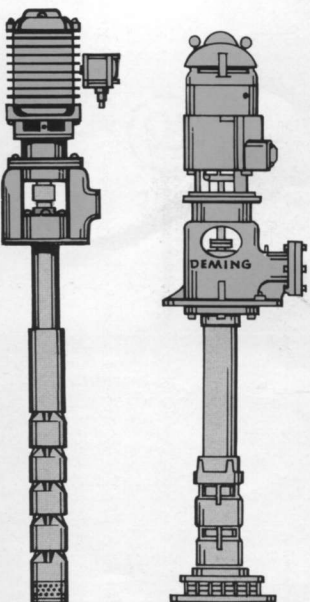
Close-Coupled
Vertical Turbine Pumps



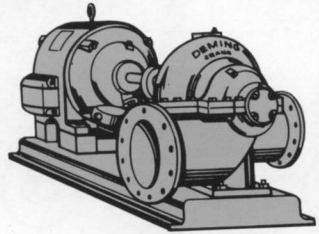
Submersible Pumps



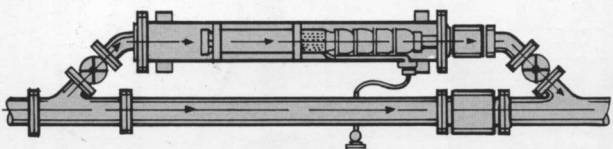
Tee Head Booster Pumps



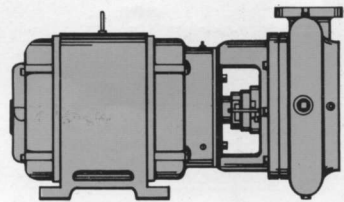
Gasoline, Fuel Oil and
Industrial Solvent Pumps



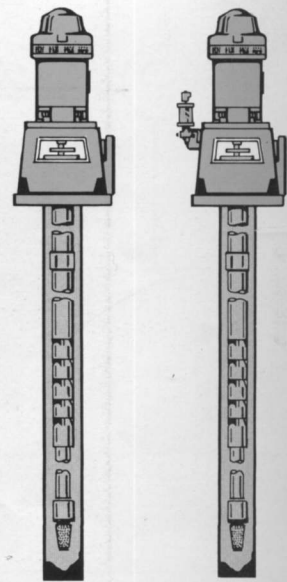
Split Case Centrifugal Pumps



Horizontal Submersible Pumps



Horizontal Motor Mount Pumps



Water Lubricated, Oil Lubricated
Vertical Turbine Pumps

CRANE DEMING PUMPS ARE SOLD AND SERVICED BY:



VALVES • PUMPS • FITTINGS • WATER TREATMENT • CONTROLS • PLUMBING • HEATING

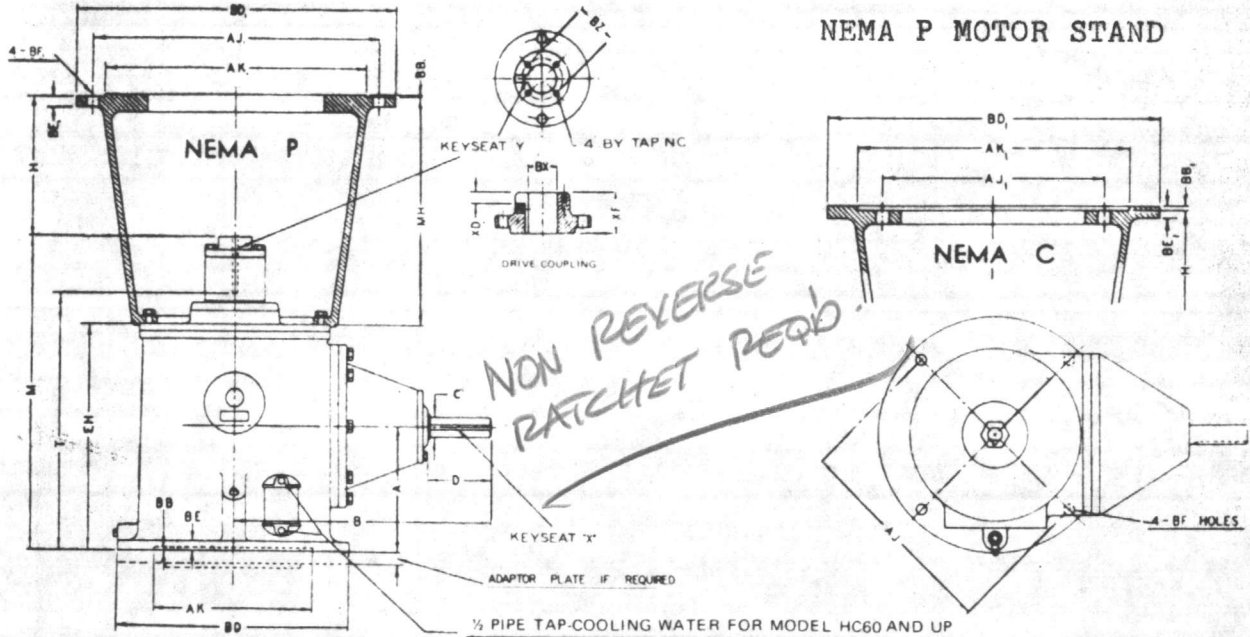
DEMING PUMPS

CRANE CO. DEMING DIV. • P. O. BOX 450 • SALEM, OHIO 44460

JOHNSON RIGHT ANGLE GEAR DRIVE

DIVISION OF ARROW GEAR COMPANY

Customer Crane Co. Order No. 404539
 Customer's Reference
 Serial No. 49841 Model HA 15 Ratio 1:1 Rotation Fig. 1
 Approved by DS Date 4/8/75 Drive Coupling "BX" 3/4" Type NR



DIMENSIONS OF JOHNSON COMBINATION RIGHT ANGLE GEAR DRIVES TABLE 2

Model	A	B	C	D	EH	H	M	BE	BD	AJ	AK	BB	BF	Keyseat X
HA15	6 3/8	13	1 1/8	2 3/4	10 5/8	3 1/8	16	5/8	10	9 1/8	8 1/4	3/8	3/8	1/4 x 1/8 x 2 1/2
HB40(13)	9	16	1 1/2	3 1/2	15 1/4	3 1/8	22 1/4	3/4	16 1/2	14 3/4	13 1/2	3/8	7/16	3/8 x 3/16 x 3
HB40	9	16	1 1/2	3 1/2	15 1/4	3 1/8	22 1/4	3/4	16 1/2	14 3/4	13 1/2	3/8	7/16	3/8 x 3/16 x 3
HC60	9	16	1 1/2	3 1/2	15 1/4	3 1/8	22 1/4	3/4	16 1/2	14 3/4	13 1/2	3/8	7/16	3/8 x 3/16 x 3
HD90	11 3/8	17 1/2	2	3 1/2	19 5/8	3 1/8	26 3/4	1	16 1/2	14 3/4	13 1/2	3/8	7/16	1/2 x 1/4 x 3
HE150	13 3/4	20 1/2	2 1/8	4 3/4	23 1/8	3 1/8	31 3/4	1	20	14 3/4	13 1/2	3/8	7/16	5/8 x 3/16 x 4
HF200	15	24	2 3/4	5 1/2	26 3/8	3 1/8	36	1 1/8	20	14 3/4	13 1/2	3/8	7/16	5/8 x 3/16 x 5
HG250	16 1/2	29	2 3/4	5 1/2	29 3/8	3 1/8	40 1/4	1 1/4	24 1/2	*22	13 1/2	3/8	*15/16	5/8 x 3/16 x 5
HH350	16 1/2	30	3	5 3/4	29 3/8	3 1/8	41 3/4	1 1/2	24 1/2	*22	13 1/2	3/8	*15/16	3/4 x 3/8 x 5
HH425	16 1/2	31	3 1/2	6 3/4	29 3/8	3 1/8	41 1/4	1 1/2	24 1/2	*22	13 1/2	3/8	*15/16	7/8 x 3/16 x 5 3/4
HI500	16 1/2	33	3 3/4	7 1/2	29 3/8	3 1/8	48 3/4	1 3/4	24 1/2	*22	13 1/2	3/8	*15/16	7/8 x 3/16 x 5 3/4
HJ600	19	36	4	7 1/2	37	3 1/8	48 3/4	1 3/4	30 1/2	*26	12 1/2	3/8	15/16	1 x 1/2 x 7

*Also 5/8-11 Tap on 14" AJ 1" Deep

APPROVED
SUBJECT TO REQUIREMENTS OF SPECIFICATIONS

MAX. DRIVE COUPLING AND KEYSEAT MOTOR STAND ROTATION DIAGRAM

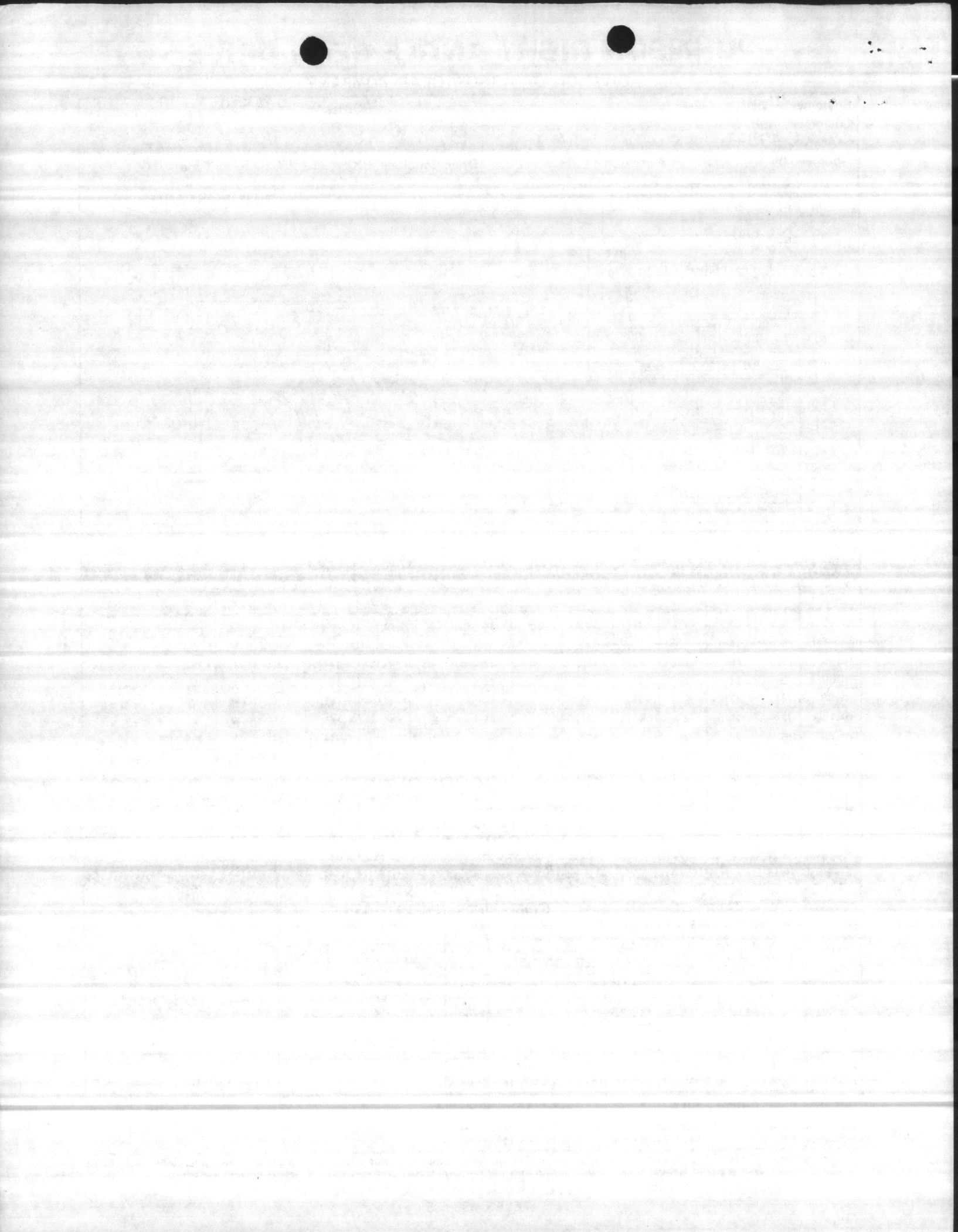
Model	XF	XD	BX		BY	BZ	T	Y	AJ1	AK1	BB1	BE1	BE1	Fig. 1	Fig. 2	Fig. 3	Fig. 4
			Fig. 1 & 4	Fig. 2 & 3													
HA15	1 3/8	3/8	3/4	3/4	10-32	3/8	12 1/2	3/8 x 3/8 x 5 1/2	9 1/8	8 1/4	3/8	3/8	3/8	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HB40	2 1/8	3/8	1 1/2	1 1/4	1/4-20	2 1/2	17 3/4	3/8 x 3/8 x 6 1/2	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HC60	2 1/8	3/8	1 1/2	1 1/4	1/4-20	2 1/2	17 3/4	3/8 x 3/8 x 6 1/2	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HD90	2 1/8	3/8	1 1/2	1 1/2	1/4-20	2 1/2	22 1/8	3/8 x 3/8 x 6 1/2	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HE150	2 3/8	3/8	1 5/8	1 3/4	1/4-20	2 1/2	26 1/2	1/2 x 1/4 x 7	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HF200	2 5/8	1/2	2	2	1/4-20	2 1/2	30	1/2 x 1/4 x 8	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HG250	3	1/2	2 3/8	2 3/8	3/8-16	3 1/4	34	1/2 x 1/4 x 9	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HH350	3 1/4	1/2	2 3/8	2 3/8	3/8-16	3 1/4	34	3/8 x 3/8 x 10	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HH425	3 1/4	1/2	2 3/8	2 3/8	3/8-16	3 1/4	35	3/8 x 3/8 x 11	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HI500	4	1/2	2 11/16	2 1/8	3/8-16	3 3/4	39 1/2	5/8 x 3/8 x 12	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4
HJ600	4	1	3 3/8	3 3/8	3/8-16	4 1/4	39 1/2	3/4 x 3/8 x 12	14 3/4	13 1/2	3/8	7/16	7/16	Fig. 1	Fig. 2	Fig. 3	Fig. 4

Tolerances: Drive Shaft "C" plus .000 minus .001; Base Rabbet "AK" plus .002 plus .005; Coupling Bore "BX" plus .0005 plus .0015; Motor Stand Rabbet "AK1" plus .000 minus .005 - Unfinished cast surfaces subject to normal variation.

921 PARKER ST. • BERKELEY, CALIF. 94710 • AREA (415) 845-7377

TELEX 336-435

36C2



MEMO OF
DATA TRANSMITTAL

GENERAL ELECTRIC
COMPANY

Refer to G.E. Req'n No.
in Correspondence

MARCH 19, 1975

SAN JOSE, CALIFORNIA

FIRST CLASS

(DATE)

(LOCATION)

(PRINTS FORWARDED VIA)

CUSTOMER

ENVIRONMENTAL PRODUCTS, INC.
P. O. DRAWER 2385
HICKORY, NORTH CAROLINA 28601

STATION OR PROJECT NO.

CUSTOMER ORDER	CUSTOMER EQUN.	G.E. CONTRACT	G.E. REQUISITION
2191			348-39536

PRINTS ARE:

FOR APPROVAL FOR INSTALLATION FOR REFERENCE

APPROVAL REQUIRED BY _____ (DATE) _____

RETURN OF "FOR APPROVAL" PRINTS SHOULD BE ADDRESSED TO THE
GENERAL ELECTRIC OFFICE WITH WHOM YOUR ORDER IS PLACED.
—NOT TO THE FACTORY—

Drawings are intended to be in accordance with applicable purchase order specifications. Comments are solicited concerning any departures in this respect. Features not covered by purchase order specifications portray General Electric Company standard design practice. The shipping date for this equipment is based on obtaining approval by the above specified date, and any delay in approval may extend the shipping schedule. Any requested changes from the purchase order specifications, resulting in additional engineering and/or manufacturing costs, will entail an increase in price and the extension of the shipping schedule.

7 PRINTS TO:
MR. BOB DARNELL
ENVIRONMENTAL PRODUCTS, INC.

MDT TO:
MR. W.L. RICHBOURG
GENERAL ELECTRIC CO.
P. O. BOX 10367
GREENSBORO, N. C. 27404

MDT TO:
B. HILL
801 SUMMIT AVE.
GREENSBORO, N. C. 27405

ITEM NO: 1
MOTOR MODEL:
OUTLINE NO: GEM 2296F
TYPE: K
FRAME: 213TP10
HORSEPOWER: 7.5
RPM: 1800
PHASE: 3
CYCLES: 60
VOLTS: ~~230/460~~ 200
THRUST: HIGH
ENCLOSURE: OPEN DRIPPROOF, WP1
SHAFT TYPE: HOLLOW
VERTICAL INDUCTION MOTOR.

APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS

J. K. TIMMONS & ASSOCIATES SERVICE FACTOR
CONSULTING ENGINEERS NON REVERSE CPLG. 1" BORE

BY: MJC

DATE: _____

SPARE PARTS LIST:

• ORDER SERVICE - S. J.

• VIRGINIA KIMMY
COPY OF M/S TO ↑

AF-556-CM 4-62 (new)

PRINTS ARE NOT TO SCALE, are loaned subject to return upon demand, and the express condition that they will not be used in any way detrimental to the General Electric Company.

REPRODUCTION OR DATA SECTION

By TRUDY HABENICHT

APPROVED

TECHNICAL SPECIFICATIONS

CONSULTING ENGINEER

INDUCTION MOTORS—GENERAL—HP, 3- AND 2-PHASE VERTICAL

QUIRREL-CAGE

TRI CLAD • Hollow-shaft • Shielded (Dripproof)*

GEM-2296F

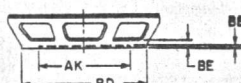
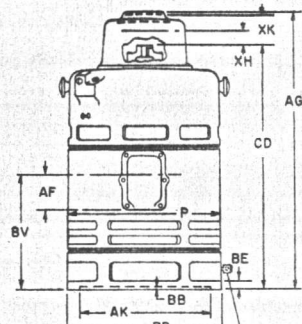
High-thrust • Normal-starting-torque • NEMA Type P Base

**Type K
Frames 213TP10 to B405TP20, 3600 Rpm and Below
Frames B444TP16 to B445TP20, 1800 Rpm and Below**

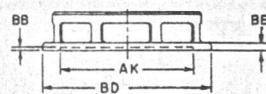
Self-release, Bolted or Nonreverse Coupling

Sept. 8, 1970

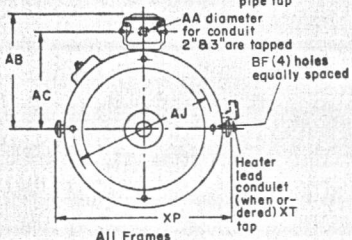
DIMENSIONS



For Frames: 213TP10, 216TP10, B254TP10, 254TP10, 254TP12, 256TP10, 256TP12, B284TP10, B284TP12, B286TP10, B286TP12, B324TP12, B326TP12, B364TP12, B365TP12, B404TP16, B405TP16, B444TP16, B445TP16



For Frames: B364TP16, B365TP16, B444TP20, and B445TP20



254TP16, 256TP16, B284TP16, B286TP16, B324TP16, B326TP16, B404TP20, B405TP20

FOR 3600-RPM MOTORS ONLY

For a given pump-shaft diameter, the following table gives the maximum distance between the motor's top coupling and the pump's first line-shaft bearing. This table is based on keeping the headshaft critical at least 25% above operating speed. The selection of a small headshaft diameter may make it necessary to support the headshaft in a close-fitting bushing in the lower end of the motor shaft.

Pump-shaft Diameter in Inches	Maximum Distance Between Top Coupling and Lower Support in Inches
0.750	33
1.000	38
1.187	42
1.437	45
1.500	47
1.688	50
1.750	51

Frame No.	Approx Net Wt in Lb	Dimensions in Inches																	
		P	AA	AB	AC	AF	AG	AJ	AK	BB	BD	BE	BF	BV	CD	XH	XK	XP	XT
213TP10	165	10 7/8	1 1/4	9 3/8	7 5/8	3 1/2	23 13/16	9 1/8	8 1/4	3/16	10	3/4	7/16	10 13/16	20 13/16	1 3/8	2 3/4		1/2
216TP10	180	10 7/8	1 1/4	9 3/8	7 5/8	3 1/2	23 13/16	9 1/8	8 1/4	3/16	10	3/4	7/16	10 13/16	20 13/16	1 3/8	2 3/4		1/2
B254TP10	205	10 7/8	1 1/2	9 3/8	7 5/8	3 1/2	23 13/16	9 1/8	8 1/4	3/16	10	3/4	7/16	10 13/16	20 13/16	1 3/8	2 3/4		1/2
254TP10	270	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	9 1/8	8 1/4	3/16	10	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
254TP12	270	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	9 1/8	8 1/4	3/16	12	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
254TP16	270	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	14 3/8	13 1/2	1/4	16 1/2	3/4	1 1/8	13	23 3/8	1 3/8	2 3/4		1/2
256TP10	310	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	9 1/8	8 1/4	3/16	10	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
256TP12	310	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	9 1/8	8 1/4	3/16	12	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
256TP16	310	12 13/16	1 1/2	10 3/8	8 5/8	3 1/2	26 1/2	14 3/8	13 1/2	1/4	16 1/2	3/4	1 1/8	13	23 3/8	1 3/8	2 3/4		1/2
B284TP10	330	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	9 1/8	8 1/4	3/16	10	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
B284TP12	330	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	9 1/8	8 1/4	3/16	12	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
B284TP16	330	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	14 3/8	13 1/2	1/4	16 1/2	3/4	1 1/8	13	23 3/8	1 3/8	2 3/4		1/2
B286TP10	355	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	9 1/8	8 1/4	3/16	10	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
B286TP12	355	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	9 1/8	8 1/4	3/16	12	3/4	7/16	13	23 3/8	1 3/8	2 3/4		1/2
B286TP16	355	12 13/16	2	11 3/8	8 7/8	4 5/8	26 1/2	14 3/8	13 1/2	1/4	16 1/2	3/4	1 1/8	13	23 3/8	1 3/8	2 3/4		1/2
B324TP12	460	14 1/4	2 5/8	12 3/8	9 11/16	4 3/8	32 7/8	9 1/8	8 1/4	3/16	12	7/8	7/16	15 7/8	28 3/8	3 3/8	4	15 3/4	3/4
B324TP16	460	14 1/4	2 5/8	12 3/8	9 11/16	4 3/8	32 7/8	14 3/8	13 1/2	1/4	16 1/2	7/8	1 1/8	15 7/8	28 3/8	3 3/8	4	15 3/4	3/4
B326TP12	510	14 1/4	3	13 13/16	10 5/8	6 1/2	32 7/8	9 1/8	8 1/4	3/16	12	7/8	7/16	15 7/8	28 3/8	3 3/8	4	15 3/4	3/4
B326TP16	510	14 1/4	3	13 13/16	10 5/8	6 1/2	32 7/8	14 3/8	13 1/2	1/4	16 1/2	7/8	1 1/8	15 7/8	28 3/8	3 3/8	4	15 3/4	3/4
B364TP12	600	16 1/4	3	14 13/16	11 3/8	6 1/2	35 7/8	9 1/8	8 1/4	3/16	12	1 1/8	7/16	16 3/8	31 3/8	3 3/8	4	17 3/4	3/4
B364TP16	600	16 1/4	3	14 13/16	11 3/8	6 1/2	35 7/8	14 3/8	13 1/2	1/4	16 1/2	1 1/8	7/16	16 3/8	31 3/8	3 3/8	4	17 3/4	3/4
B365TP12	660	16 1/4	3	14 13/16	11 3/8	6 1/2	35 7/8	9 1/8	8 1/4	3/16	12	1 1/8	7/16	16 3/8	31 3/8	3 3/8	4	17 3/4	3/4
B365TP16	660	16 1/4	3	14 13/16	11 3/8	6 1/2	35 7/8	14 3/8	13 1/2	1/4	16 1/2	1 1/8	7/16	16 3/8	31 3/8	3 3/8	4	17 3/4	3/4
B404TP16	890	18 7/8	3	15 3/4	12 1/2	6 1/2	41 1/4	14 3/8	13 1/2	1/4	16 1/2	7/8	1 1/8	19 1/2	36 7/8	3 3/4	4 1/2	20 1/4	3/4
B404TP20	890	18 7/8	3	15 3/4	12 1/2	6 1/2	41 1/4	14 3/8	13 1/2	1/4	20	7/8	1 1/8	19 1/2	36 7/8	3 3/4	4 1/2	20 1/4	3/4
B405TP16	990	18 7/8	3	15 3/4	12 1/2	6 1/2	41 1/4	14 3/8	13 1/2	1/4	16 1/2	7/8	1 1/8	19 1/2	36 7/8	3 3/4	4 1/2	20 1/4	3/4
B405TP20	990	18 7/8	3	15 3/4	12 1/2	6 1/2	41 1/4	14 3/8	13 1/2	1/4	20	7/8	1 1/8	19 1/2	36 7/8	3 3/4	4 1/2	20 1/4	3/4
B444TP16	1180	20 3/4	3	16 13/16	13 5/8	6 1/2	47 1/2	14 3/8	13 1/2	1/4	16 1/2	1 1/8	1 1/8	23 1/4	41 7/8	3 3/4	5	22	3/4
B444TP20	1180	20 3/4	3	16 13/16	13 5/8	6 1/2	47 1/2	14 3/8	13 1/2	1/4	20	1 1/8	1 1/8	23 1/4	41 7/8	3 3/4	5	22	3/4
B445TP16	1330	20 3/4	3	16 13/16	13 5/8	6 1/2	47 1/2	14 3/8	13 1/2	1/4	20	1 1/8	1 1/8	23 1/4	41 7/8	3 3/4	5	22	3/4
B445TP20	1330	20 3/4	3	16 13/16	13 5/8	6 1/2	47 1/2	14 3/8	13 1/2	1/4	20	1 1/8	1 1/8	23 1/4	41 7/8	3 3/4	5	22	3/4

Coupling dimensions on reverse side.

* These motors meet NEMA specifications for weather-protected Type 1 motors.

† 'AK' diameters of 8 1/4 inches will vary within the limits of +0.003 inch, -0.000 inch; diameters of 13 1/2 inches will vary within the limits of +0.003 inch, -0.000 inch.

‡ The total height of pump shaft and locking nut above top of coupling must not exceed dimension XH.

§ For 3600 rpm, Frames B324TP12 and B324TP16, conduit box dimensions are same as for Frames B326TP12 and B326TP16.

¶ For 3600 rpm in this frame size, refer to the Company.

Frames 213TP10 through B286TP16 have grease-lubricated upper guide and lower thrust bearings. All other frames have oil-lubricated upper thrust bearing and grease-lubricated lower guide bearing.

For 3600 rpm, Frames B404TP16 through B405TP20 inclusive maximum shaft permissible 1.751 inches.

Nonreverse coupling assemblies, Frames 213TP to B286TP are complete, nonreverse assemblies, Frame B324TP to B445TP, must be used together with appropriate self-release coupling.

Provided mounting conditions permit, conduit box may be turned so that entrance can be made upward, downward, or from either side.

For shipping weight add 5 per cent to the above net weights.

For ESTIMATING ONLY unless endorsed for construction.

W-5

RECEIVED

SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS

J. R. TIMMONS & ASSOCIATES
CONSULTING ENGINEERS

W-5

APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS
J. K. TIMMONS & ASSOCIATES
CONSULTING ENGINEERS

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, North Carolina 28540

BY: MRE
DATE: 1 Aug 75

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

- 60' of 18" Pit Casings
- 120' of 8" Gav. Pipe
- 20' of 8" Stainless Steel Well Screen
- 20' of 8" Gav. Pipe
- 10' of 8" Stainless Steel Well Screen
- 10' of 8" Gav. Pipe

We feel like this well would produce 200 GPM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

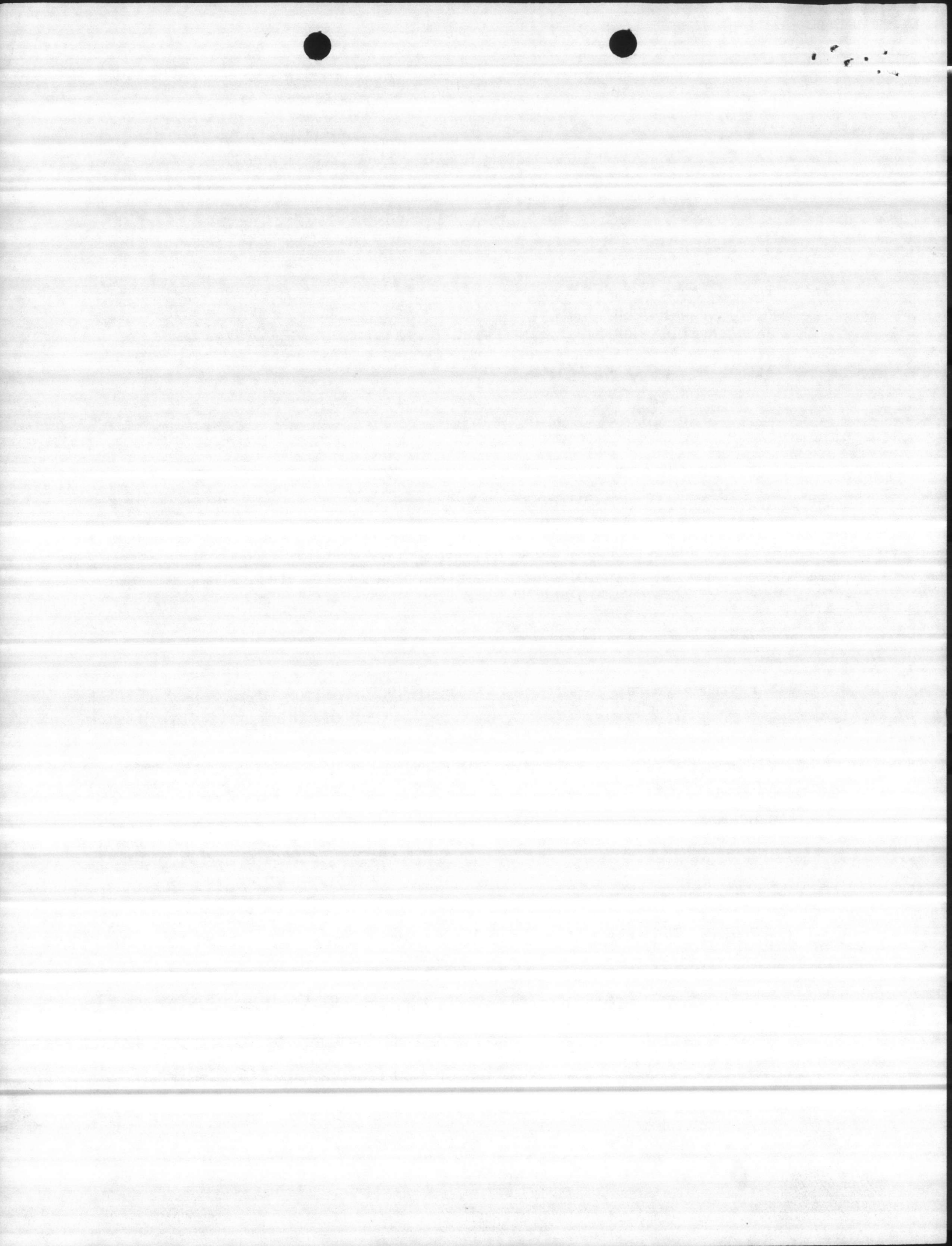
Worth F. Picard
Worth F. Picard
P. O. Box 1085
Sanford, North Carolina 27330

UTILITIES EXPANSION	
MARINE CORPS AIR STATION	
NEW RIVER	
CONTRACT NG2470-73-C-1155	
JACKSONVILLE, NORTH CAROLINA	
CONTRACT	15H.3.8
DWG. NO.	15H.3.7
APP. BY	<i>[Signature]</i>
DATE	12 June, 1975
PEABODY-PETERSEN CO.	
Job No. 7409	

WFP/slm

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, N. C. 28540

REC'D JUN 11 1975



NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 25047, Raleigh, North Carolina 27611

UTILITIES EXPANSION
 MARINE CORPS AIR STATION
 NEW RIVER
 CONTRACT NO. 62470-73-C-1155
 JACKSONVILLE, NORTH CAROLINA
 DWG. NO. _____
 DATE 17 June, 1975

Complete all items above Heavy Line
 (see instructions on reverse side)

Name of Owner or Supply: Peabody-Petersen
 Address: Jacksonville, N.C.
 Well No. R

Type of Supplier: Job No. 7409
 1-Municipal 6-Industrial
 2-Sanitary District 7-Institution
 3-Mobile Home Park 8-Private
 4-Community 9-Other _____

County: Wayne
 Report to: Wm. F. Pickard

Source of Water: 1-Ground 3-Bath
 2-Surface 4-Purchased
 Source of Sample: 1-Well tap 2-House Tap
 3-Distribution Tap

Address: Box 1085
Waynesboro, N.C. 27890
 Collected by: Ralph W. Harrison

Type of Sample: 1-Raw 2-Treated
TIMMONS & ASSOCIATES
CONSULTING ENGINEERS

Date Collected: 5-16-75 Time: 2:00 pm

Type of Treatment: MZ2
 1-None 5-Lime
 2-Chlorinated 6-Soda Ash
 3-Filtered 7-Polyphosphate
 4-Alum 8-Water Softener
 9-Other _____

Remarks: Sample # 2
136' to 130'

Analysis Desired: 1-Complete analysis (18 tests)
 2-Partial analysis (9 tests)
High, mix OK

ANALYSIS

Color (000)	15 units	Ph (00.0)	8.4
Results in Parts per Million			
Alkalinity CaCO ₃ (000)	318	Fluoride (0.00)	1.74
Total Hardness (000)	20	Arsenic (*0.00)	< 0.01
Iron (*00.00)	< 0.05	Calcium (*0.00)	< 0.01
Manganese (*00.00)	< 0.03	Chromium ⁺⁶ (*0.00)	< 0.05
Turbidity SiO ₂ (000)	0	Copper (*00.00)	< 0.05
Acidity, CaCO ₃ (000)	0	Lead (*0.00)	< 0.05
Chloride (000)	31	Zinc (*00.00)	0.05
Sodium (000)	145		5.2
Potassium (00.0)	9.2		1.8

APPROVED
SUBJECT TO REQUIREMENTS OF SPECIFICATIONS



NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 28047, Raleigh, North Carolina 27611

Complete all items above Heavy Line
 (see instructions on reverse side)

APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS

J. K. TIMMONS & ASSOCIATES
CONSULTING ENGINEERS

Name of Owner or Supplier: Temp. Linn
 Address: Jacksonville, NC
 Well No. R
 County: Carter
 Report to: North Carolina
 Address: Box 1655
Surfside NC 27330
 Collected by: Ralph W. Harrison
 Date Collected: 4-15-77 Time: 4:00 pm
 Remarks: 168' to 172'
Sample 1

Type of Supplier: 1-Municipal 2-Sanitary 3-Home Park 4-Community 5-Association 6-Industrial 7-Installation 8-Other

Source of Water: 1-Ground 2-Surface 3-Well tap 4-Purchased 5-Other

DATE: 4-15-77

Type of Sample: 1-Raw 2-Treated

Type of Treatment: 0-None 1-Chlorinated 2-Fluoridated 3-Filtered 4-Alum 5-Lime 6-Soda Ash 7-Polyphosphate 8-Water Softener 9-Other

Analysis Desired: 1-Complete analysis (18 tests) 2-Partial analysis (9 tests)

ANALYSIS

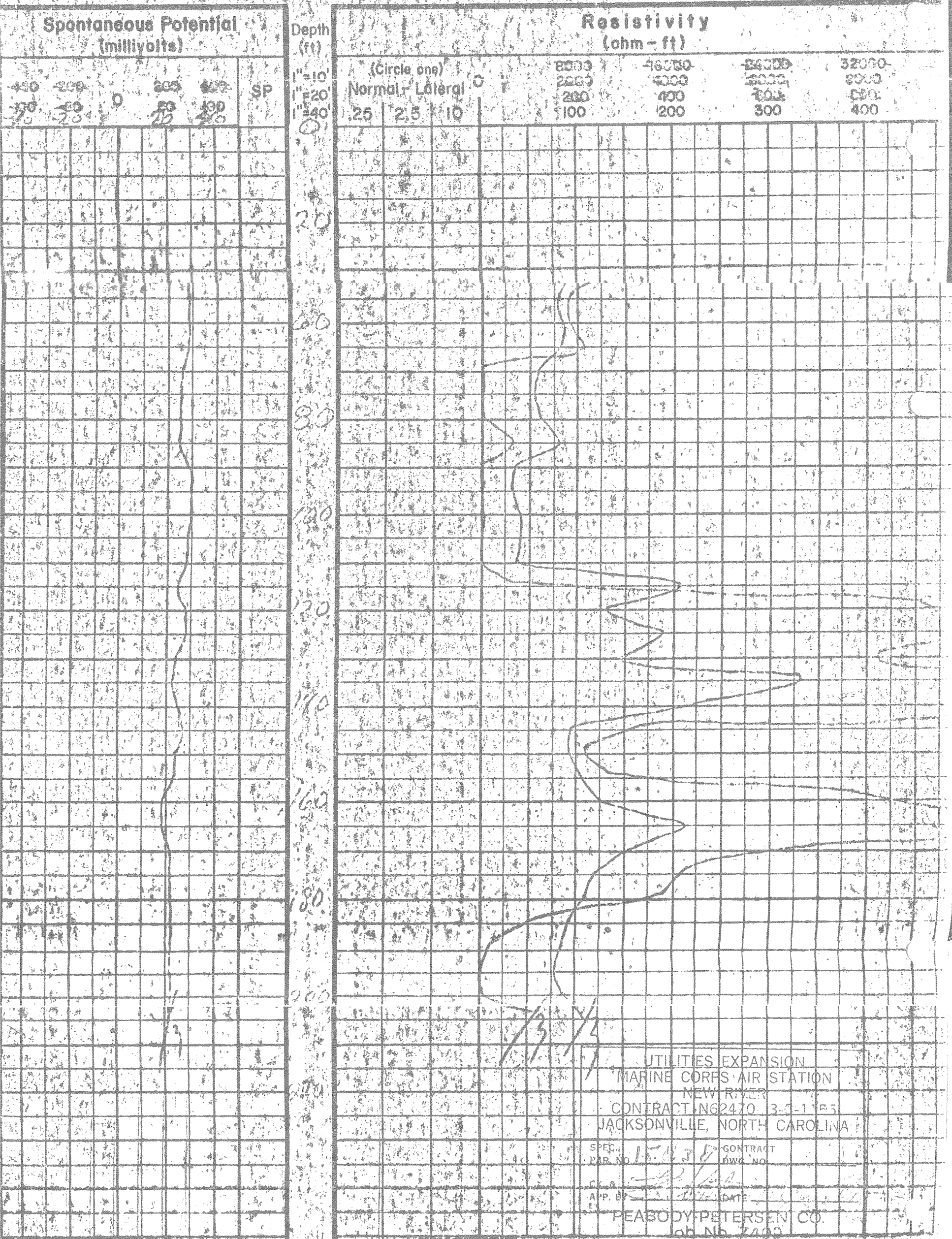
Color	(000)	15	units	Ph	(00.0)	8.6 mix Alcat OK
Results in Parts per Million						
Alkalinity CaCO ₃	(000)	334		Fluoride	(0.00)	1.70
Total Hardness	(000)	19		Arsenic	(*0.00)	< 0.01
Iron	(*00.00)	< 0.05		Cadmium	(*0.00)	< 0.01
Manganese	(*00.00)			Chromium ⁶	(*0.00)	< 0.05
Turbidity SiO ₂	(000)	1.5		Copper	(*00.00)	< 0.05
Acidity CaCO ₃	(000)	0		Lead	(*0.00)	< 0.05
Chloride	(000)	38		Zinc	(*00.00)	0.06
Sodium	(000)	165		Calcium		4.5
Potassium	(00.0)	9.7		Magnesium		1.7

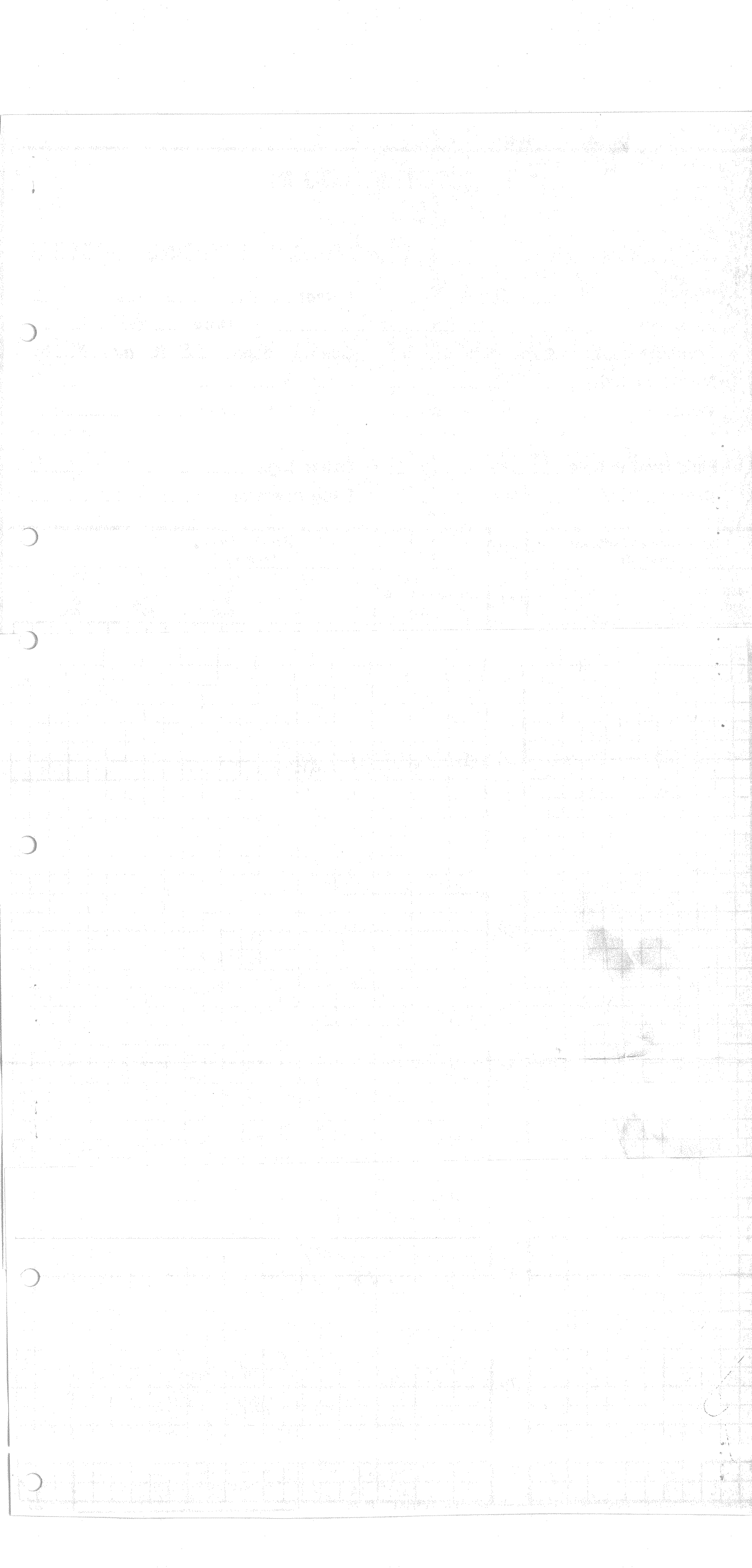


ELECTRIC LOG BY

JOHNSON-KECK DR-61 ELECTRICAL LOGGING SYSTEM

Well RD 1 Owner Gen. Service
 Location NEW RIVER Date 5/14/75
 Borehole depth 20 ft. dia. 4 in. Casing depth 28 ft. dia. 8 in.
 Mud resistivity _____ temperature _____ F
 viscosity _____ sec weight _____ lb/gal type _____
 Measuring point 0 ft. above/below ground level
 Fluid level in hole 6 ft. Other logs _____
 Driller Ralph Harrison E-log operator Alan Costner



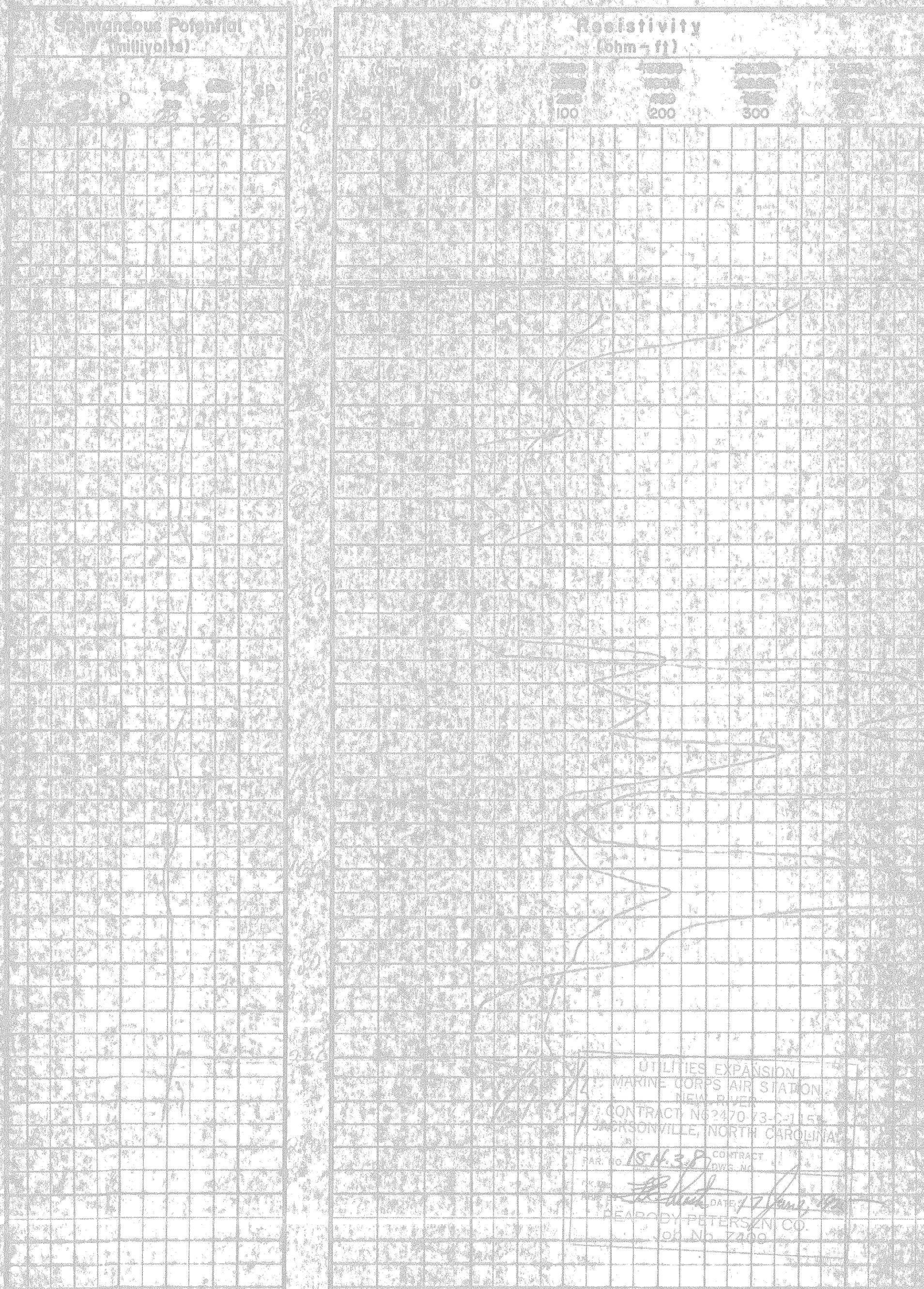


ELECTRIC LOG BY

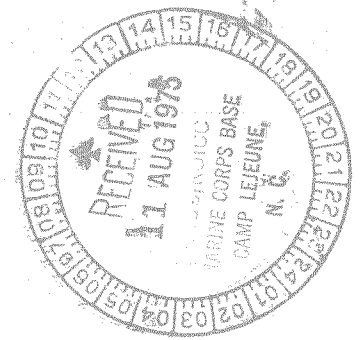
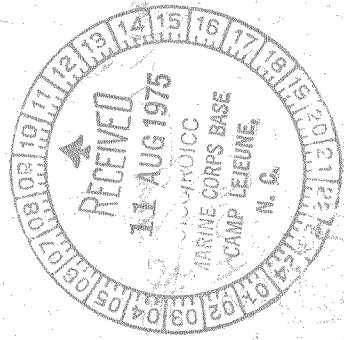
JOHNSON-KICK DR-51 ELECTRICAL LOGGING SYSTEM

Well _____ Owner Camp Leconte
 Location _____ Date 5/11/75
 Borehole depth _____ in. Casing depth 28 ft., dia. 8 in.
 Mud resistivity _____ temperature _____
 viscosity _____ sec weight _____ lb/gal type _____
 Measuring point _____ ft. above/below ground level
 Fluid level in hole _____ ft. Other logs _____
 Driller Ralph Harrison E-log operator Alan Cost

APPROVED
 SUBJECT TO REQUIREMENTS OF
 SPECIFICATIONS
 J. H. JOHNSON & ASSOCIATES
 CONSULTING ENGINEERS
 1120 W. 10th St.
 JACKSONVILLE, FLA. 32209



UTILITIES EXPANSION
 MARINE CORPS AIR STATION
 NEW RIVER
 CONTRACT N62470-73-C-1155
 JACKSONVILLE, NORTH CAROLINA
 PAR. NO. 154.3.8 CONTRACT
 DWG. NO. _____
 DATE 7/2/75
 DEARBY PETERSON CO.
 Job No. 7200



Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, N. C. 28540

REC'D MAY 22 1975

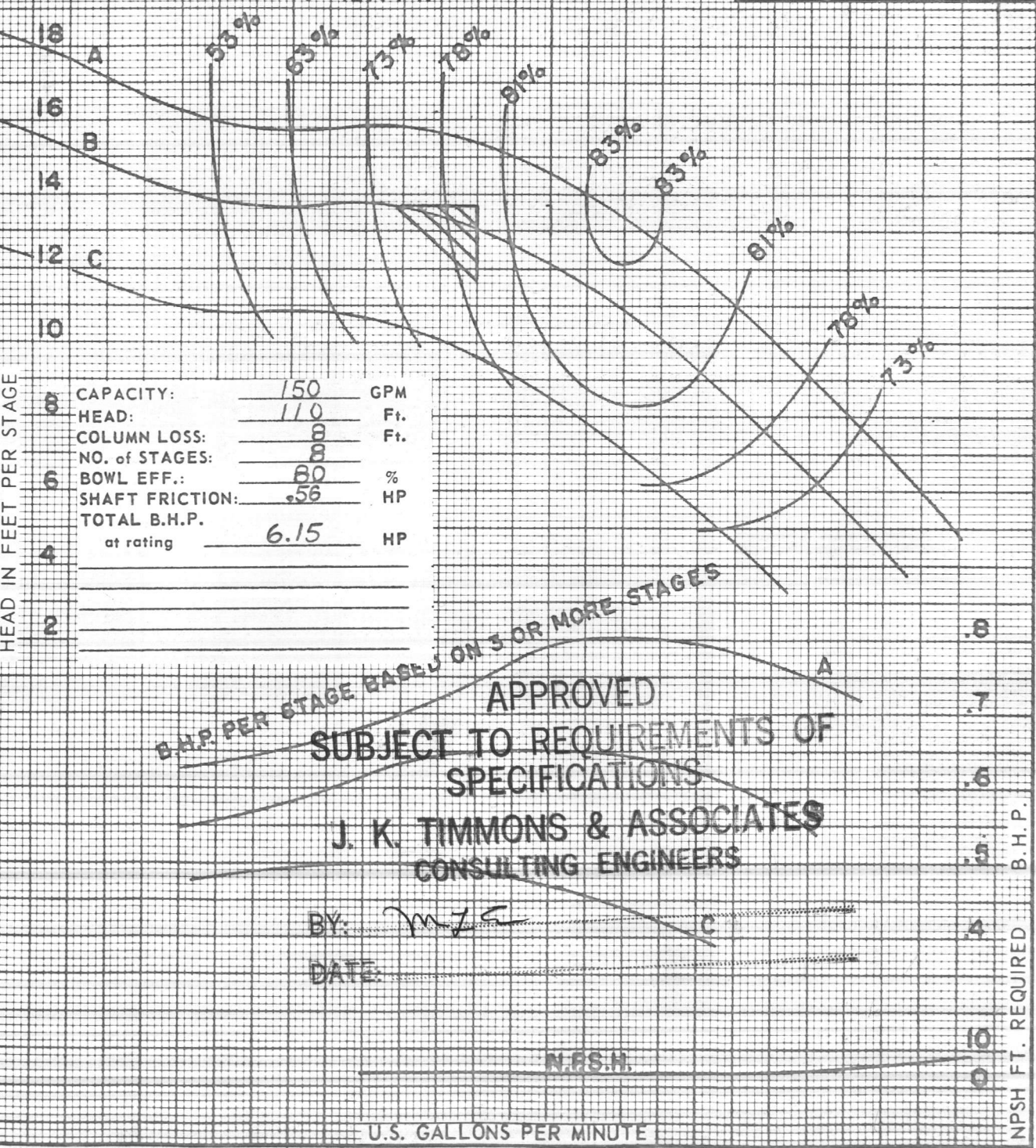
SIZE XH6 SINGLE STAGE PERFORMANCE 1770 R.P.M.

EFFICIENCY CHANGE:		DIMENSIONS		FIG. 4700	FIG. 4750
3 STAGE DEDUCT	0 POINTS	BOWL DIAMETER		5 3/4	5 3/4
2 STAGE DEDUCT	2 POINTS	IMPELLER SHAFT DIA.			
1 STAGE DEDUCT	4 POINTS	LENGTH FIRST STAGE		17 1/8	20 1/8
ENAMELED BOWLS		ADDITIONAL STAGE		6 1/2	6 1/2
		THRUST FACTOR =		3.9	3.9

SUCTION - I.D. PIPE SIZE **4"** SIZE COLUMN ADAPTER **(4)"** " OR **5"** SEMI-ENC. IMPELLER NO. 22957

FOR OVER 40 STAGES CHECK BOWL LIMITATION ENGINEERING SECTION

SHUT OFF HEAD PER STAGE		CURVE	IMPELLER DIAMETER
A = 19.8 FT.		A	4 15/16
B = 16.4 FT.		B	4 1/2
C = 12.9 FT.		C	4



NPSH FT. REQUIRED B.H.P.

APPROVE

SUBJECT TO REVIEW

SPECIFIC

TRAINING

ENGINEERING

WET

CRANE CO. • 884 SOUTH BROADWAY • SALEM, OHIO 44460

Environmental Products, Inc.
P.O. Drawer 2385
Hickory, N. Car. 28601DATA TRANSMITTAL

DATE: 4-10-75

Attention: Mr. Bob Darnell

Subject:

Purchase Order 2189

Deming Order 6108

S/N T-74759

Gentlemen:

Project:

Attached is data as listed below:

QTY.	DESCRIPTION:	NUMBER & REMARKS:
11	DIMENSION DRAWING	DATED
11	PERFORMANCE CURVE	
11	BULLETIN	Fig. 4700
11	INSTRUCTION MANUAL WITH PARTS LIST	" "

Above submittal is for APPROVAL and we are withholding the order from entry for production awaiting receipt of approved data at this office along with full information to enable us to proceed. See note * below.

Above submittal is for record and file. We are proceeding with production in accordance with same. Please note that any changes after this date may result in delays and possible additional charges.

Above for record and file.

REMARKS:

Richard Ferguson Turbine Dept.

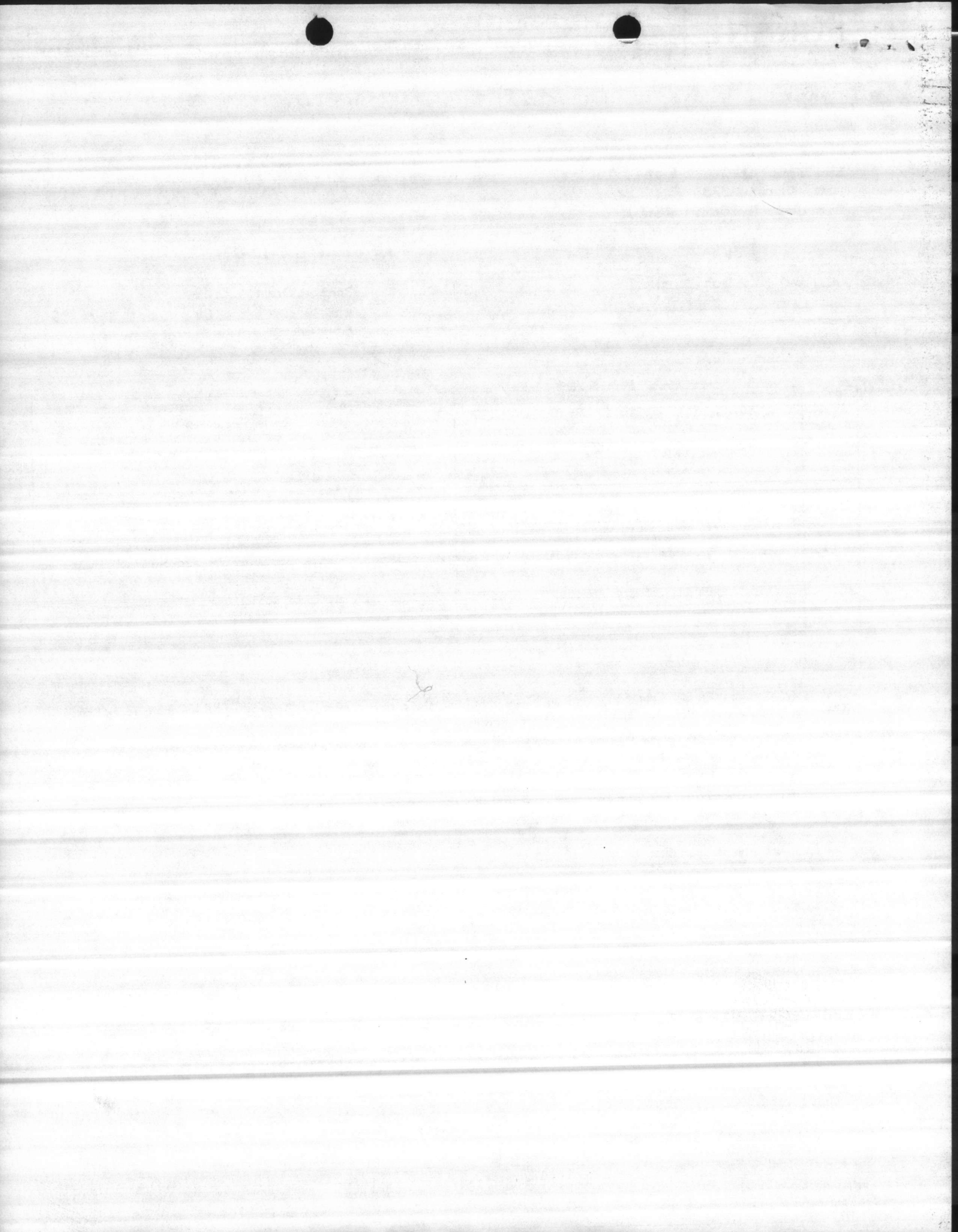
Application Engineering Dept.

* NOTE: When for approval, attached copy of this letter returned with your release will facilitate identification and handling.

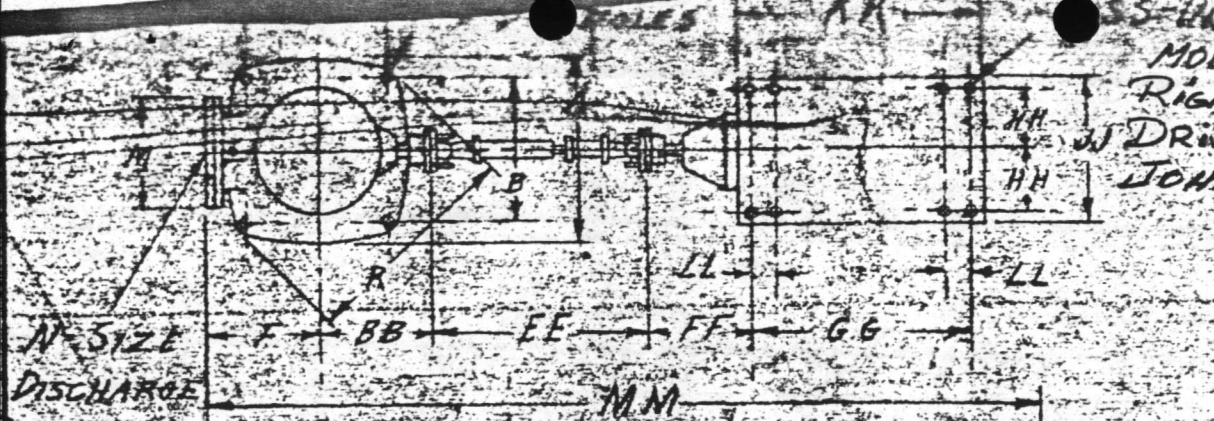
APPROVED FOR PRODUCTION: (date)

FILE

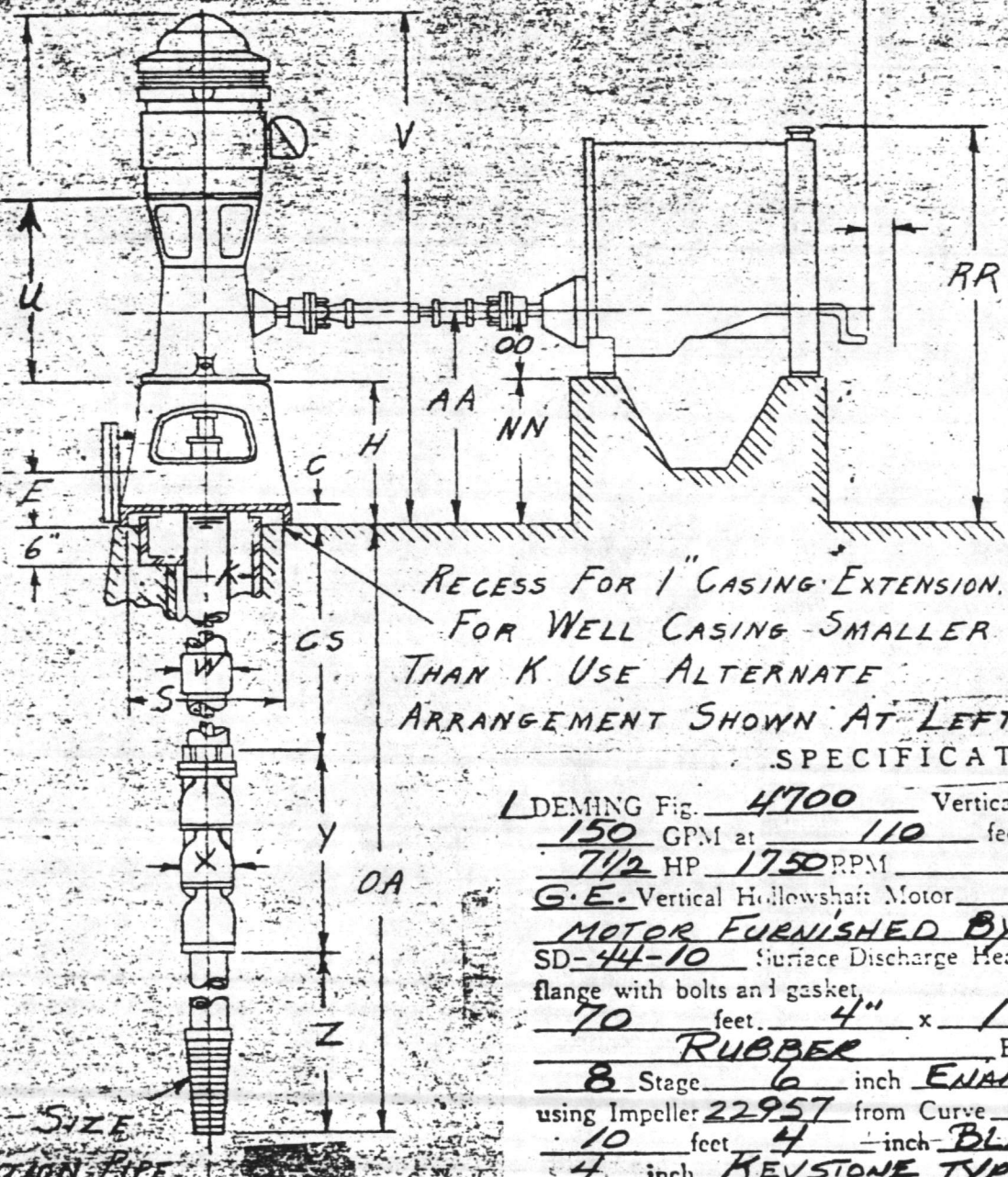
For



MODEL HA-15 Comb.
 RIGHT ANGLE GEAR
 DRIVE 1:1 RATIO
 JOHNSON



DIMENSION		
A	14"	CS 90° 0"
B	12 3/8"	OA 86 1/8"
C	2"	AA 21 7/8"
D	5/8"	BB 13"
E	6"	EE
F	9"	FF
H	15 1/2"	GG
K	6"	HH
M	11"	JJ
N	6"	KK
R	19 1/8"	LL
S	12 3/4"	MM
U	19 1/8"	NN
V	—	OO
W	5"	RR
X	5 3/4"	SS
Y	5'-25/8"	T.T 4"
Z	10'-11"	



RECESS FOR 1" CASING EXTENSION.
 FOR WELL CASING SMALLER
 THAN K USE ALTERNATE
 ARRANGEMENT SHOWN AT LEFT.

SPECIFICATIONS

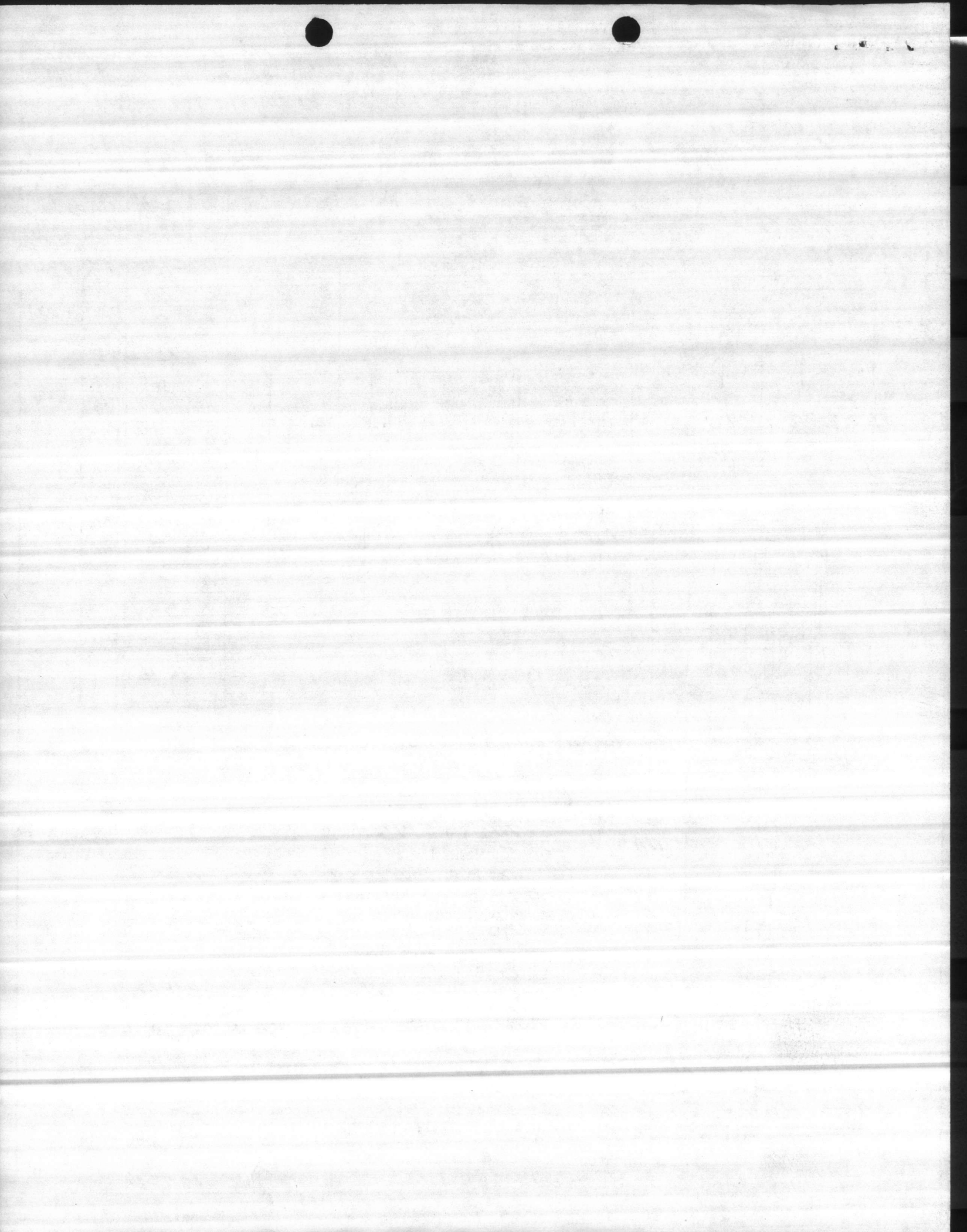
LDEMING Fig. 4700 Vertical Turbine Pump designed for
150 GPM at 110 feet head, including:
7 1/2 HP 1750 RPM Volt _____ Phase _____ Cycle _____
 G.E. Vertical Hollowshaft Motor
MOTOR FURNISHED BY OTHERS
 SD-44-10 Surface Discharge Head with _____ inch discharge
 flange with bolts and gasket,
70 feet, 4" x 1 1/4" Column and shaft with
RUBBER Bearings on 10 foot centers
8 Stage 6 inch ENAMELED Bowl Assembly
 using Impeller 22957 from Curve PC-3186
10 feet 4 inch BLACK STEEL suction pipe
4 inch KEYSTONE TYPE TC GALV. strainer

When properly endorsed this print is correct for

ENVIRONMENTAL PRODUCTS INC.
 Customer's P. O. 2189 Turbine No. T. 74759
 Date 4-7-75 by David E. Snyder So. 06108-00

DATE OF ISSUE
 MARK NEW RIVER WELL "R"
 DESTROY ALL PREVIOUS PRINTS

THE DEMING CO. SALEM, OHIO	TITLE VERTICAL TURBINE PUMP WITH RIGHT ANGLE GEAR DRIVE & ENG. WITH MOTOR	FIG. <u>47</u>	SIZE
<u>10467</u>	DATE <u>4-20-49</u>	SCALE <u>1/2"</u>	DRAWING NO. <u>18464</u>



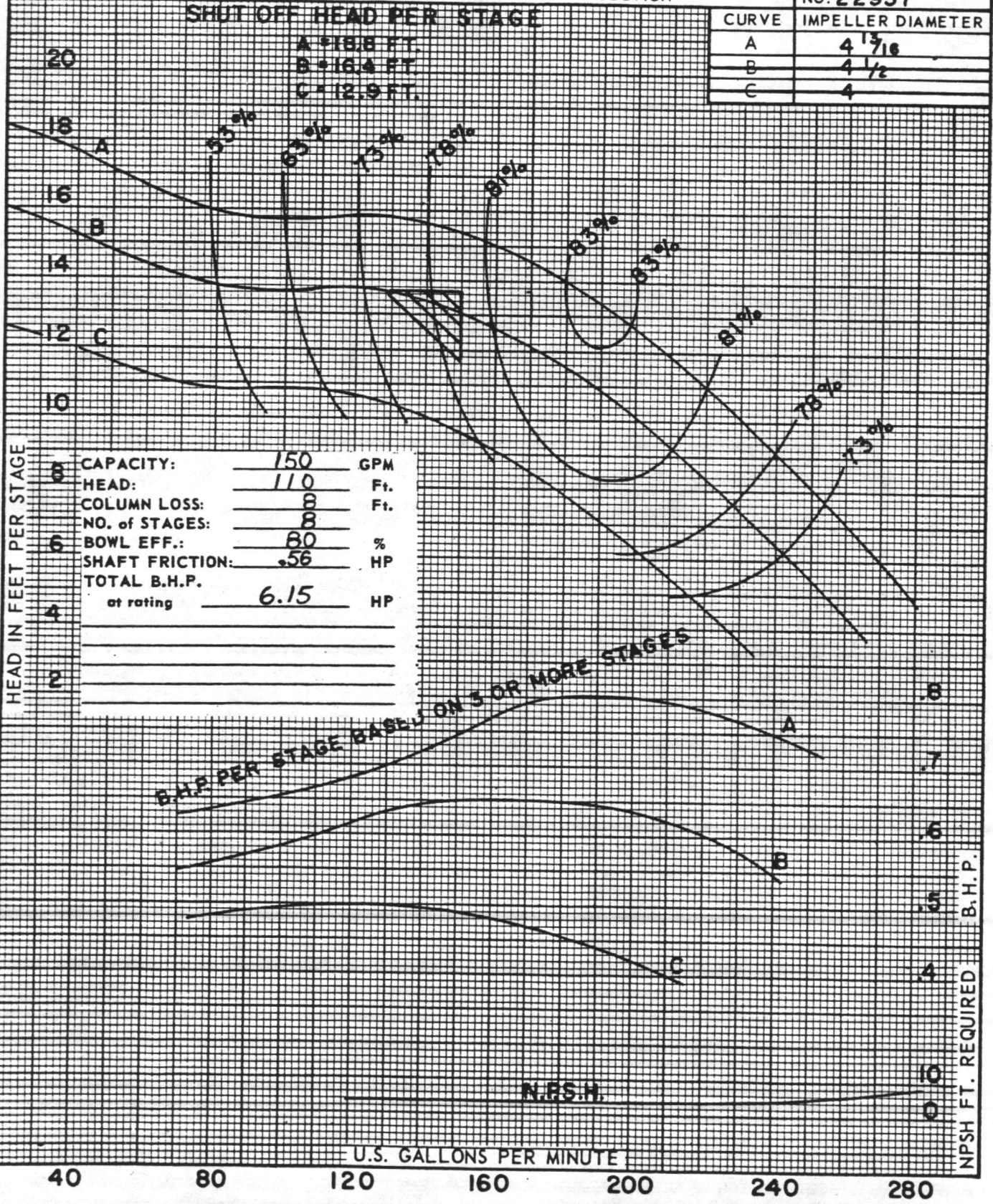
SIZE XH6 SINGLE STAGE PERFORMANCE 1770 R.P.M.

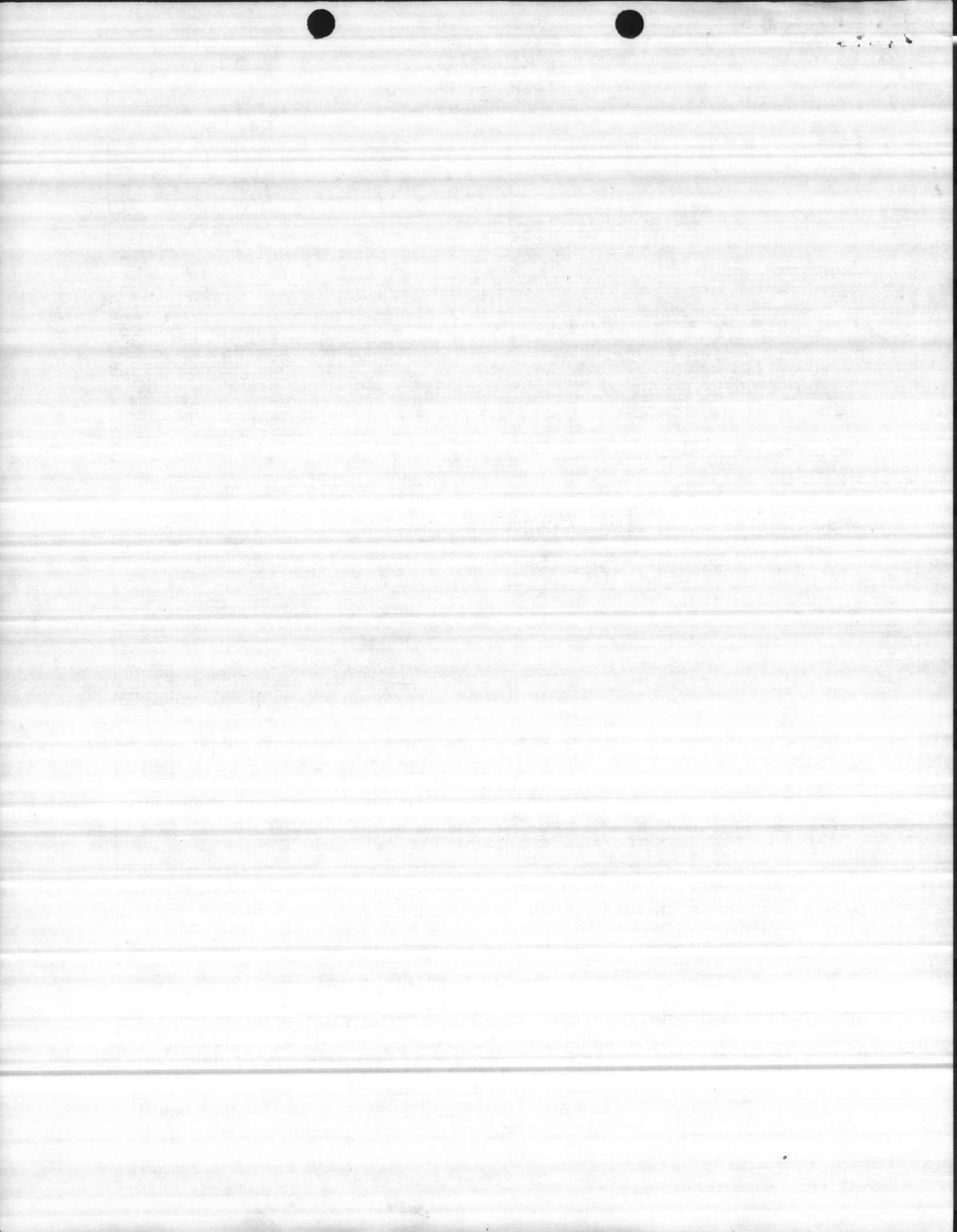
EFFICIENCY CHANGE:		DIMENSIONS		FIG. 4700	FIG. 4750
3	STAGE DEDUCT	0	POINTS	5 3/4	5 3/4
2	STAGE DEDUCT	0	POINTS		
1	STAGE DEDUCT	2	POINTS	17 1/8	20 1/8
	ENAMELED BOWLS	4	POINTS	6 1/2	6 1/2
		THRUST FACTOR =		3.9	3.9

SUCTION - I.D. PIPE SIZE 4" SIZE COLUMN ADAPTER (4)" OR, 5" SEMI-ENC. IMPELLER NO. 22957

FOR OVER 40 STAGES CHECK BOWL LIMITATION ENGINEERING SECTION

CURVE	IMPELLER DIAMETER
A	4 7/16
B	4 1/2
C	4





"R"

APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS

J. K. TIMMONS & ASSOCIATES
CONSULTING ENGINEERS
June 11, 1975

BY: MJE

DATE: 1 Aug 75

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, North Carolina 28540

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

- 60' of 18" Pit Casings
- 120' of 8" Gav. Pipe
- 20' of 8" Stainless Steel Well Screen
- 20' of 8" Gav. Pipe
- 10' of 8" Stainless Steel Well Screen
- 10' of 8" Gav. Pipe

We feel like this well would produce 200 GPM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

Worth F. Picard
 Worth F. Picard
 P. O. Box 1085
 Sanford, North Carolina 27330

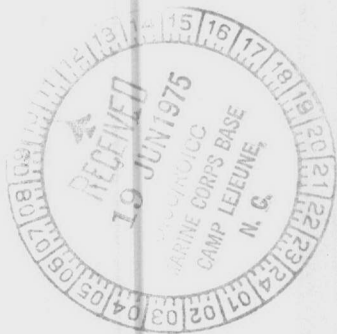
WFP/slm

UTILITIES EXPANSION
 MARINE CORPS AIR STATION
 NEW RIVER
 CONTRACT N62470-73 G-1153
 JACKSONVILLE, NORTH CAROLINA
 15H.3.8
 15H.3.7 CONTRACT
 DWG. NO.
 CK. &
 APP. BY: *[Signature]* DATE: 12 Aug, 1975
 PEABODY-PETERSEN CO.
 Job No. 7409

*To A
for review*

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, N. C. 28540

REC'D JUN 11 1975
REC'D JUN 11 1975



APPROVED
SUBJECT TO REQUIREMENTS OF

ENGINEERS & ASSOCIATES



NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 28047, Raleigh, North Carolina 27611

Complete all items above Heavy Line
 (see instructions on reverse side)

Name of Owner or Supply: Camp Legion

Address: Jacksonville, NC

Well No. R

County: Wayne

Report to: Watts & Putnam

Address: Box 1085

Surficial, NC 27330

Collected by: Ralph W Harrison

Date Collected: 4-15-75 Time: 4:00 pm

Remarks: 148' to 172'
Sample 1

APPROVED
SUBJECT TO REQUIREMENTS OF
SPECIFICATIONS
J. K. THIMMONS & ASSOCIATES
CONSULTING ENGINEERS

BY: MZE DATE: 1 AUG 75

Type of Supply: 1-Municipal 2-Sanitary 3-Mobile Home Community 4-Association 5-Industrial 6-Institution 7-Private 8-Other

Source of Water: 1-Ground 2-Surface 3-Both 4-Purchased

Source of Sample: 1-Well tap 2-House Tap 3-Distribution Tap

Type of Sample: 1-Raw 2-Treated

Type of Treatment: 0-None 1-Chlorinated 2-Fluoridated 3-Filtered 4-Alum 5-Lime 6-Soda Ash 7-Polyphosphate 8-Water Softener 9-Other

Analysis Desired: 1-Complete analysis (18 tests) 2-Partial analysis (9 tests)

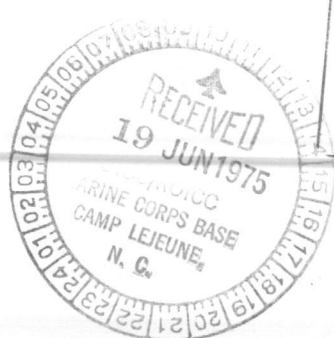
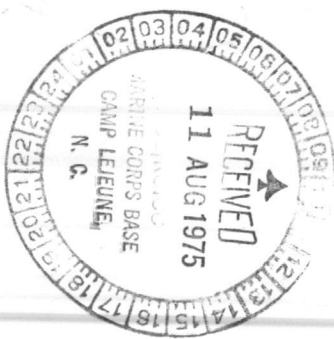
ALGH - MIX OR

ANALYSIS

Color	(000)	<u>15</u>	units	Ph	(00.0)	<u>8.6</u>
Results in Parts per Million						
Alkalinity CaCO ₃	(000)	<u>334</u>		Fluoride	(0.00)	<u>1.70</u>
Total Hardness	(000)	<u>19</u>		Arsenic	(*0.00)	<u><0.01</u>
Iron	(*00.00)	<u><0.05</u>		Cadmium	(*0.00)	<u><0.01</u>
Manganese	(*00.00)	<u><0.05</u>		Chromium ⁺⁶	(*0.00)	<u><0.05</u>
Turbidity SiO ₂	(000)	<u>1.5</u>		Copper	(*00.00)	<u><0.05</u>
Acidity CaCO ₃	(000)	<u>0</u>		Lead	(*0.00)	<u><0.05</u>
Chloride	(000)	<u>38</u>		Zinc	(*00.00)	<u>0.06</u>
Sodium	(000)	<u>165</u>		Calcium		<u>4.8</u>
Potassium	(00.0)	<u>9.7</u>		Magnesium		<u>1.7</u>

APPROVED
SUBJECT TO REQUIREMENTS OF
INVESTIGATIONS
K. W. HARRISON & ASSOCIATES
CONSULTING ENGINEERS
1 AUG 75
100-33

100-33



UTILITIES EXPANSION
MARINE CORPS AIR STATION
NEW RIVER
CONTRACT W52470 3 0-1155
JACKSONVILLE, NORTH CAROLINA

SPEC. _____ CONTRACT _____
PAR. NO. 154.3.8 DWG. NO. _____
CK. & _____
APP. BY: *J. B. [Signature]* DATE: 17 June, 1975

PEABODY-PETERSEN CO.
Job No. 7409

NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 28047, Raleigh, North Carolina 27611

Complete all items above Heavy Duty
 (see instructions on reverse side)

Name of Owner or Supply: Camp Lytle

Address: Jacksonville, N.C.

Well No. R

County: Onslow

Report to: Walter F. Dickard

Address: Box 1085

Surfside, N.C. 27330

Collected by: Ralph W. Harrison

Date Collected: 5-16-75 Time: 2:00 pm

Remarks: Sample # 2
126' to 130'

APPROVED
 SUBJECT TO REQUIREMENTS OF
 SPECIFICATIONS
J. K. TIMMONS & ASSOCIATES
 CONSULTING ENGINEERS

Type of Supplier: 1-Municipal
 1-Municipal
 2-Sanitary District
 3-Home Park
 4-Community
 5-Association
 6-Industrial
 7-Institution
 8-Private
 9-Other

Source of Water: myr
 BY: 1-Ground 2-Surface 3-Booth 4-Purchased

DATE: _____

Source of Sample: 1-Well tap 2-House Tap 3-Distribution Tap

Type of Sample: 1-Raw 2-Treated

Type of Treatment:
 0-None
 1-Chlorinated
 2-Fluoridated
 3-Filtered
 4-Alum

UTILITIES EXPANSION
 MARINE CORPS AIR STATION
 NEW RIVER phosphate
 CONTRACT NO. 2470730-1-1-75
 JACKSONVILLE, NORTH CAROLINA

Analysis Desired: 1-Complete analysis (18 tests)
 2-Partial analysis (9 tests)

CONTRACT SPEC. PAR. NO. _____ DWG. NO. _____
 APP. BY _____ DATE _____

ANALYSIS

PEABODY-PETERSEN CO.
 Job No. 7409

Color (000)	15	units	Ph	(00.0)	8.4
Results in Parts per Million					
Alkalinity CaCO ₃ (000)	318		Fluoride (0.00)		1.74
Total Hardness (000)	20		Arsenic (*0.00)		<0.01
Iron (*00.00)	<0.05		Cadmium (*0.00)		<0.01
Manganese (*00.00)	<0.03		Chromium ⁺⁶ (*0.00)		<0.05
Turbidity SiO ₂ (000)	0.8		Copper (*00.00)		<0.05
Acidity CaCO ₃ (000)	0		Lead (*0.00)		<0.05
Chloride (000)	31		Zinc (*00.00)		0.05
Sodium (000)	145				5.2
Potassium (00.0)	9.2				1.8

HAZARD MIX OR

APPROVED
SUBJECT TO REVIEW
K. TIMMONS & ASSOCIATES
CONSULTING ENGINEERS
1400 22
M-32



UTILITIES EXPANSION
MARINE CORPS AIR STATION
NEW RIVER
CONTRACT N62470-73-C-1155
JACKSONVILLE, NORTH CAROLINA

SPEC. _____ CONTRACT _____
PAR. NO. 154.3.6 DWG. NO. _____

CK. & _____
APP. BY: [Signature] DATE 17 June, 1970

PEABODY-PETERSEN CO.
Job No. 7409

NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory Section
 P. O. Box 28047, Raleigh, North Carolina 27611

Complete all items above Heavy Line
 (see instructions on reverse side)

Name of Owner or Supply: CAMP LEJUINE

Address: JACKSONVILLE, N. C.

Well No. R

County: ONSLow

Report to: WORTH F. PICKARD

Address: BOX 1085

SANFORD, N. C. 27330

Collected by: RALPH HARRISON

Date Collected: 7/10/75 Time: 10:00 p.m.

Remarks: ON PUMPING TEST
MARINE BASE

Type of Supplier:

<input type="checkbox"/>	1-Municipal	<input type="checkbox"/>	5-Association
<input type="checkbox"/>	2-Sanitary District	<input type="checkbox"/>	6-Industrial
<input type="checkbox"/>	3-Mobile Home Park	<input type="checkbox"/>	7-Institution
<input type="checkbox"/>	4-Community	<input type="checkbox"/>	8-Private
		<input type="checkbox"/>	9-Other

Source of Water:

<input checked="" type="checkbox"/>	1-Ground	<input type="checkbox"/>	3-Both
<input type="checkbox"/>	2-Surface	<input type="checkbox"/>	4-Purchased

Source of Sample:

<input checked="" type="checkbox"/>	1-Well tap	<input type="checkbox"/>	2-House Tap
		<input type="checkbox"/>	3-Distribution Tap

Type of Sample:

<input checked="" type="checkbox"/>	1-Raw	<input type="checkbox"/>	2-Treated
-------------------------------------	-------	--------------------------	-----------

Type of Treatment:

<input checked="" type="checkbox"/>	0-None	<input type="checkbox"/>	5-Lime
<input type="checkbox"/>	1-Chlorinated	<input type="checkbox"/>	6-Soda Ash
<input type="checkbox"/>	2-Fluoridated	<input type="checkbox"/>	7-Polyphosphate
<input type="checkbox"/>	3-Filtered	<input type="checkbox"/>	8-Water Softener
<input type="checkbox"/>	4-Alum	<input type="checkbox"/>	9-Other

Analysis Desired:

<input checked="" type="checkbox"/>	1-Complete analysis (18 tests)
<input type="checkbox"/>	2-Partial analysis (9 tests)

ANALYSIS

Color (000)	15 units	Ph	(00.0) 8.1
Results in Parts per Million			
Alkalinity CaCO ₃ (000)	315	Fluoride (0.00)	1.62
Total Hardness (000)	25	Arsenic (*0.00)	< 0.01
Iron (*00.00)	0.05	Cadmium (*0.00)	< 0.01
Manganese (*00.00)	< 0.03	Chromium ⁺⁶ (*0.00)	< 0.05
Turbidity SiO ₂ (000)	0.5	Copper (*00.00)	< 0.05
Acidity CaCO ₃ (000)	5	Lead (*0.00)	< 0.05
Chloride (000)	30	Zinc (*00.00)	0.10
Sodium (000)	150	Calcium	7.2
Potassium (00.0)	9.0	Magnesium	1.7

PUMPING TEST DATA

Test conducted by: Carolina Well and Pump Company, Inc. By: Ralph Harrison
 Well Owner: Air Station - Camp Lejeune Address: Jacksonville, North Carolina
 Pumped Well No.: R Location: _____ County: Onslow
 Observation Well Locations: _____
 Airline Lengths: Pumped Well _____ Observation Wells _____
 Remarks: _____

Pumping rate measured with: Orifice 3" X 4" 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
7-8-75							
8:55		Static Water Level				14.9	
9:00		Pumping Test Started					Water clear
9:15	15	5	100			15.11	
9:30	30	5	100			16.0	
9:45	45	5	100			16.1	
10:00	60	5	100			16.1	
10:30	90	5	100			16.1	
11:00	120	5	100			16.2	
11:30	150	5	100			16.2	
12:00	180	5	100			16.2	
12:30	210	5	100			16.2	
1:00	240	5	100			16.2	
1:30	270	5	100			16.2	
2:00	300	5	100			16.2	
2:30	330	5	100			16.2	
3:00	360	5	100			16.3	
3:30	390	5	100			16.3	
4:00	420	5	100			16.3	
4:30	450	5	100			16.3	
5:00	480	5	100			16.3	
5:30	510	5	100			16.4	
6:00	540	5	100			16.4	
6:30	570	5	100			16.4	
7:00	600	5	100			16.4	
7:30	630	5	100			16.4	
8:00	660	5	100			16.4	
8:30	690	5	100			16.4	
9:00	720	5	100			16.4	
9:30	750	5	100			16.4	
10:00	780	5	100			16.4	
10:15	795	13	150			16.11	
10:30	810	13	150			17.0	
10:45	825	13	150			17.0	
11:00	840	13	150			17.0	
11:30	870	13	150			17.0	
12:00	900	13	150			17.0	
12:30	930	13	150			17.0	
1:00	960	13	150			17.0	
1:30	990	13	150			17.0	
2:00	1020	13	150			17.0	
2:30	1050	13	150			17.0	
3:00	1080	13	150			17.0	
3:30	1110	13	150			17.0	

Handwritten mark resembling a stylized 'E' or '3'.

Flow Well Data

Time	Flow Rate	Water Level	Temperature	Notes
10:00	100	10.5	15.0	
10:15	110	10.8	15.2	
10:30	120	11.0	15.5	
10:45	130	11.2	15.8	
11:00	140	11.5	16.0	
11:15	150	11.8	16.2	
11:30	160	12.0	16.5	
11:45	170	12.2	16.8	
12:00	180	12.5	17.0	
12:15	190	12.8	17.2	
12:30	200	13.0	17.5	
12:45	210	13.2	17.8	
13:00	220	13.5	18.0	
13:15	230	13.8	18.2	
13:30	240	14.0	18.5	
13:45	250	14.2	18.8	
14:00	260	14.5	19.0	
14:15	270	14.8	19.2	
14:30	280	15.0	19.5	
14:45	290	15.2	19.8	
15:00	300	15.5	20.0	
15:15	310	15.8	20.2	
15:30	320	16.0	20.5	
15:45	330	16.2	20.8	
16:00	340	16.5	21.0	
16:15	350	16.8	21.2	
16:30	360	17.0	21.5	
16:45	370	17.2	21.8	
17:00	380	17.5	22.0	
17:15	390	17.8	22.2	
17:30	400	18.0	22.5	
17:45	410	18.2	22.8	
18:00	420	18.5	23.0	
18:15	430	18.8	23.2	
18:30	440	19.0	23.5	
18:45	450	19.2	23.8	
19:00	460	19.5	24.0	
19:15	470	19.8	24.2	
19:30	480	20.0	24.5	
19:45	490	20.2	24.8	
20:00	500	20.5	25.0	
20:15	510	20.8	25.2	
20:30	520	21.0	25.5	
20:45	530	21.2	25.8	
21:00	540	21.5	26.0	
21:15	550	21.8	26.2	
21:30	560	22.0	26.5	
21:45	570	22.2	26.8	
22:00	580	22.5	27.0	
22:15	590	22.8	27.2	
22:30	600	23.0	27.5	
22:45	610	23.2	27.8	
23:00	620	23.5	28.0	
23:15	630	23.8	28.2	
23:30	640	24.0	28.5	
23:45	650	24.2	28.8	
24:00	660	24.5	29.0	

Handwritten mark resembling a stylized 'E' or '3'.

Handwritten mark resembling a stylized 'E' or '3'.

PUMPING TEST DATA

Test conducted by: Carolina Well and Pump Company, Inc By: Ralph Harrison
 Well Owner: Air Station - Camp Lejeune Address: Jacksonville, North Carolina
 Pumped Well No.: R Location: _____ County: Onslow
 Observation Well Locations: _____
 Airline Lengths: Pumped Well _____ Observation Wells _____
 Remarks: _____

Pumping rate measured with: Orifice 3" X 4" 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
4:30	1170	13	150			17.0	
5:00	1200	13	150			17.0	
5:30	1230	13	150			17.0	
6:00	1260	13	150			17.0	
6:30	1290	13	150			17.0	
7:00	1320	13	150			17.0	
7:30	1350	13	150			17.0	
8:00	1380	13	150			17.0	
8:30	1410	13	150			17.0	
9:00	1440	13	150			17.0	
9:30	1470	13	150			17.0	
10:00	1500	13	150			17.0	
10:30	1530	13	150			17.0	
11:00	1560	13	150			17.0	
11:15	1575	23	200			17.8	
11:30	1590	23	200			17.9	
11:45	1605	23	200			17.9	
12:00	1620	23	200			17.10	
12:30	1650	23	200			17.10	
1:00	1680	23	200			17.11	
1:30	1710	23	200			18.0	
2:00	1740	23	200			18.1	
2:30	1770	23	200			18.1	
3:00	1800	23	200			18.1	
3:30	1830	23	200			18.1	
4:00	1860	23	200			18.5	
4:30	1890	23	200			18.5	
5:00	1920	23	200			18.5	
5:30	1950	23	200			18.5	
6:00	1980	23	200			18.5	
6:30	2010	23	200			18.5	
7:00	2040	23	200			18.5	
7:30	2070	23	200			18.5	
8:00	2100	23	200			18.5	
8:30	2130	23	200			18.5	
9:00	2160	23	200			18.5	
9:30	2190	23	200			18.5	
10:00	2220	23	200			18.5	
10:30	2250	23	200			18.5	
11:00	2280	23	200			18.5	
11:30	2310	23	200			18.5	
12:00	2340	23	200			18.5	
12:15	2355	35	250			18.11	
12:30	2370	35	250			18.11	

Flow Well Data

Time	Flow Rate (gpm)	Water Level (ft)	Pressure (psi)	Notes
17:00	150	17.0	15.0	
17:05	150	17.0	15.0	
17:10	150	17.0	15.0	
17:15	150	17.0	15.0	
17:20	150	17.0	15.0	
17:25	150	17.0	15.0	
17:30	150	17.0	15.0	
17:35	150	17.0	15.0	
17:40	150	17.0	15.0	
17:45	150	17.0	15.0	
17:50	150	17.0	15.0	
17:55	150	17.0	15.0	
18:00	150	17.0	15.0	
18:05	150	17.0	15.0	
18:10	150	17.0	15.0	
18:15	150	17.0	15.0	
18:20	150	17.0	15.0	
18:25	150	17.0	15.0	
18:30	150	17.0	15.0	
18:35	150	17.0	15.0	
18:40	150	17.0	15.0	
18:45	150	17.0	15.0	
18:50	150	17.0	15.0	
18:55	150	17.0	15.0	
19:00	150	17.0	15.0	

Handwritten notes or signature in the bottom right corner.

PUNCHING TEST DATA



Number of blows measured with electric cap _____
Number of blows measured with _____

Blow	Time min	Depth inches	Penetration Rate GPM	Penetration Resistance	Amount Change Reading Test	Level of Water	Remarks
1	14.0						
2	14.0						
3	14.0						
4	14.0						
5	14.0						
6	14.0						
7	14.0						
8	14.0						
9	14.0						
10	14.0						
11	14.0						
12	14.0						
13	14.0						
14	14.0						
15	14.0						
16	14.0						
17	14.0						
18	14.0						
19	14.0						
20	14.0						
21	14.0						
22	14.0						
23	14.0						
24	14.0						
25	14.0						
26	14.0						
27	14.0						
28	14.0						
29	14.0						
30	14.0						

75

75

75

NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES
 CHEMICAL ANALYSIS OF WATER
 Division of Health Services, Laboratory
 P. O. Box 28047, Raleigh, North Carolina 27611

WATER UTILITIES EXPANSION
 AIR STATION
 NEW RIVER
 CONTRACT N62470-73-C-1153
 JACKSONVILLE, NORTH CAROLINA 27611
 CONTRACT DWG. NO. _____
 DATE 17 June 1975
 SPEC. 1511.3.7
 CK. & _____
 PEABODY-PETERSON CO.
 No. 7-7409

166

Complete all items above heavy lines
 (see instructions on reverse side)

Name of Owner or Supply: CAMP LEJANE

Address: JACKSONVILLE NC

Well No. R

County: ONSLOW

Report to: WORTH F PICKARD

Address: BOX 1085

SANFORD NC 27330

Collected by: RALPH W. HARRISON

Date Collected: 4-15-75 Time: 4:00 P.M.

Remarks:
166' to 172'
SAMPLE 1
 ...
GCI RUNDOWN 9:30-75

Type of Supply:
 1-Municipal
 2-Sanitary District
 3-Mobile Home Park
 4-Community
 5-Association
 6-Industrial
 7-Institution
 8-Private
 9-Other

Source of Water:
 1-Ground
 2-Surface
 3-Both
 4-Purchased

Source of Sample:
 1-Well tap
 2-House Tap
 3-Distribution Tap

Type of Sample:
 1-Raw
 2-Treated

Type of Treatment:
 0-None
 1-Chlorinated
 2-Fluoridated
 3-Filtered
 4-Alum
 5-Lime
 6-Soda Ash
 7-Polyphosphate
 8-Water Softener
 9-Other

Analysis Desired:
 1-Complete analysis (18 tests)
 2-Partial analysis (9 tests)

ANALYSIS

Color	(000)	19	units	Ph	(00.0)	8.6
-------	-------	-----------	-------	----	--------	------------

Results in Parts per Million

Alkalinity CaCO ₃	(000)	334	Fluoride	(0.00)	1.70
Total Hardness	(000)	19	Arsenic	(⁰ 0.00)	< 0.01
Iron	(⁰⁰ 0.00)	< 0.05	Cadmium	(⁰ 0.00)	< 0.01
Manganese	(⁰⁰ 0.00)	< 0.05	Chromium ⁶	(⁰ 0.00)	< 0.05
Turbidity SiO ₂	(000)	1.5	Copper	(⁰⁰ 0.00)	< 0.05
Acidity CaCO ₃	(000)	0	Lead	(⁰ 0.00)	< 0.05
Chloride	(000)	38	Zinc	(⁰⁰ 0.00)	0.06
Sodium	(000)	165	CALCIUM		4.8
Potassium	(00.0)	9.7	MAGNESIUM		1.7

Date received 5-19-75 Date reported 5-28-75 Lab. No. 7913
 Reported by _____

Division of Health Services
 100 North Salisbury Street
 Raleigh, North Carolina 27601
 NEW RIVER
 CONTRACT NO. 13-C-1152

Contract No. 13-C-1152
 NEW RIVER
 Division of Health Services
 100 North Salisbury Street
 Raleigh, North Carolina 27601

Source of Sample
 1- Distribution Tap
 2- House Tap
 3- Both
 4- Purchased

Type of Sample
 1- Treated
 2- Untreated

Analysis
 1- Total Analysis (5 tests)
 2- Chemical Analysis (18 tests)

Parameter	Result	Standard
Total Solids	1.78	1000
Calcium	< 0.01	100
Magnesium	< 0.05	100
Iron	0.05	100
Copper	0.05	100
Zinc	0.05	100
Lead	0.05	100
Chloride	4.8	100
Sulfate	1.7	100

R

Peabody Petersen

Peabody Petersen Co.
1930 Silver Star Road. | P. O. Box 7934
Orlando, Florida 32804 | Telephone 305 299-3020

LETTER OF TRANSMITTAL

Date	17 JUNE 1971	Gal. Ed.
Customer Order No.	N 600 15-C-112	
Attention	C.I.C.	
Re:	MCA (H) MCO 5114 UTILITIES EXPANSION CAMP LESCUNE, N.C.	
Copies Mailed To:	ORLANDO OFFICE OPER. DIV. A. KACHAUS 10457	

To: LCOR. K.W. MOBLE
BUILDING 1025
MARKING CORPS AREA
CAMP LESCUNE N.C. 28542

Gentlemen:
We are sending You

- Attached Under separate cover via _____ the following items:
 Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NUMBER	DESCRIPTION
4	17 JUNE 71	69	WELL DATA FOR WELL R - WATER SAMPLE ANALYSIS, ELECTRIC LOG & PERMANENT RECORD IS RECOMMENDATION.

2892 LAWTON PRINTERS Orlando Distributors

Remarks:
 (1) FOR YOUR INFORMATION
 THERE

Copy To: _____
 Signed: _____

If enclosures are not as noted, kindly notify us at once.

June 11, 1975

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, North Carolina 28540

Attn: Mr. Felix E. Acosta

Dear Mr. Acosta:

Our recommendations on Well R would be to set:

60' of 18" Pit Casings
120' of 8" Gav. Pipe
20' of 8" Stainless Steel Well Screen
20' of 8" Gav. Pipe
10' of 8" Stainless Steel Well Screen
10' of 8" Gav. Pipe

We feel like this well would produce 200 GPM of water.

Very truly yours;

Carolina Well and Pump Co., Inc.

Worth F. Picard
Worth F. Picard
P. O. Box 1085
Sanford, North Carolina 27330

UTILITIES EXPANSION	
MARINE CORPS AIR STATION	
NEW RIVER	
CONTRACT N62470-73-C-1155	
JACKSONVILLE, NORTH CAROLINA	
15H.3.8	CONTRACT
15H.3.7	DWG. NO.
CHK. & APP. BY <i>[Signature]</i>	DATE 12 June, 1975
PEABODY-PETERSEN CO.	
Job No. 7409	

WFP/slm

Peabody S. E., Inc.
P. O. Drawer 7248
Jacksonville, N. C. 28540

REC'D JUN 11 1975
REC'D JUN 11 1975

June 11, 1972

Leahy, J. P.
U.S. District Court

Room 1111, Federal Building

San Francisco, California

Dear Mr. Leahy:

100-442383

100-442383

100-442383

100-442383

100-442383

I am enclosing herewith a copy of the report...

SEARCHED	INDEXED
SERIALIZED	FILED
JUN 11 1972	
FBI - SAN FRANCISCO	

100-442383

2 of 2

U.S. District Court

San Francisco

June 11, 1972

UTILITIES EXPANSION
MARINE CORPS AIR STATION
NEW RIVER

CONTRACT NO. 62470-73-C-1155
JACKSONVILLE, NORTH CAROLINA

NORTH CAROLINA DEPARTMENT OF HEALTH SERVICES
CHEMICAL ANALYSIS OF WATER
Division of Health Services, Laboratory Section
P. O. Box 25047, Raleigh, North Carolina 27602
CONTRACT NO. 15N3076 DWG. NO.

Complete all items above Heavy Line
(see instructions on reverse)

DATE 17 June, 1975
PEABODY-PETERSEN CO.

Name of Owner or Supply: Trinity Supply

Address: Jacksonville, N.C.

Well No. R

County: Wayne

Report to: Walter F. Peabody

Address: Box 1085

Deepford, N.C. 29530

Collected by: Ralph W. Harrison

Date Collected: 5-14-75 Time: 3:00 pm

Remarks: Sample # 2
126' to 130'

Type of Supplier: Job No. 7409
 1-Municipal
 2-Sanitary District
 3-Mobile Home Park
 4-Community
 5-Industrial
 6-Association
 7-Institution
 8-Private
 9-Other

Source of Water:
 1-Ground
 2-Surface
 3-Both
 4-Purchased

Source of Sample:
 1-Well tap
 2-House Tap
 3-Distribution Tap

Type of Sample:
 1-Raw
 2-Treated

Type of Treatment:
 0-None
 1-Chlorinated
 2-Fluoridated
 3-Filtered
 4-Alum
 5-Lime
 6-Soda Ash
 7-Polyphosphate
 8-Water Softener
 9-Other

Analysis Desired:
 1-Complete analysis (18 tests)
 2-Partial analysis (9 tests)

ANALYSIS

Color	(000)	15	units	pH	(00.0)	8.4
Results in Parts per Million						
Alkalinity CaCO ₃	(000)	318		Fluoride	(0.00)	1.74
Total Hardness	(000)	26		Arsenic	(*0.00)	<0.01
Iron	(*00.00)	<0.05		Calcium	(*0.00)	<0.01
Manganese	(*00.00)	<0.03		Chromium ⁶	(*0.00)	<0.05
Turbidity SiO ₂	(000)	0		Copper	(*00.00)	<0.05
Acidity CaCO ₃	(000)	0		Lead	(*0.00)	<0.05
Chloride	(000)	31		Zinc	(*00.00)	0.05
Sodium	(000)	145				5.2
Potassium	(00.0)	92				1.8

UTILITIES EXPANSION
 MARINE CORPS AIR STATION
 NEW RIVER
 NORTH CAROLINA DEPARTMENT OF HEALTH AND HUMAN SERVICES
 JACKSONVILLE, NORTH CAROLINA

Division of Health Services
 P. O. Box 2407 Raleigh, NC 27602

REABODY-PETERSEN CO.
 Job No. 7409

Source of water:
 1 - Public
 2 - Private
 3 - Other

Source of Sanitation:
 1 - House To
 2 - Public

Time of treatment:
 1 - None
 2 - Chlorination
 3 - Filtration
 4 - Other

Item	Quantity	Unit Price	Total Price
1.000	1.000	1.000	1.000
2.000	2.000	2.000	4.000
3.000	3.000	3.000	9.000
4.000	4.000	4.000	16.000
5.000	5.000	5.000	25.000
6.000	6.000	6.000	36.000
7.000	7.000	7.000	49.000
8.000	8.000	8.000	64.000
9.000	9.000	9.000	81.000
10.000	10.000	10.000	100.000
11.000	11.000	11.000	121.000
12.000	12.000	12.000	144.000
13.000	13.000	13.000	169.000
14.000	14.000	14.000	196.000
15.000	15.000	15.000	225.000
16.000	16.000	16.000	256.000
17.000	17.000	17.000	289.000
18.000	18.000	18.000	324.000
19.000	19.000	19.000	361.000
20.000	20.000	20.000	400.000

ELECTRIC LOG BY

JOHNSON-KECK™ DR-61 ELECTRICAL LOGGING SYSTEM

Well A Owner CIA
 Location _____ Date 5/11/75
 Borehole depth 20 ft. dia. 1 1/2 in. Casing depth 28 ft. dia. 8 in.
 Mud resistivity _____ temperature _____
 viscosity _____ sec weight _____ lb/gal type _____
 Measuring point _____ ft. above/below ground level
 Fluid level in hole _____ Other logs _____
 Driller Ralph Harrison E-log operator Alan Carter

Spontaneous Potential (millivolts)					Depth (ft)	Resistivity (ohm-ft)				
400	200	0	200	400		(Circle one) Normal Lateral	2000	15000	25000	32000
170	150	0	150	170	1"=10	25	25	100	200	300
					1"=20					
					1"=40					
					20					

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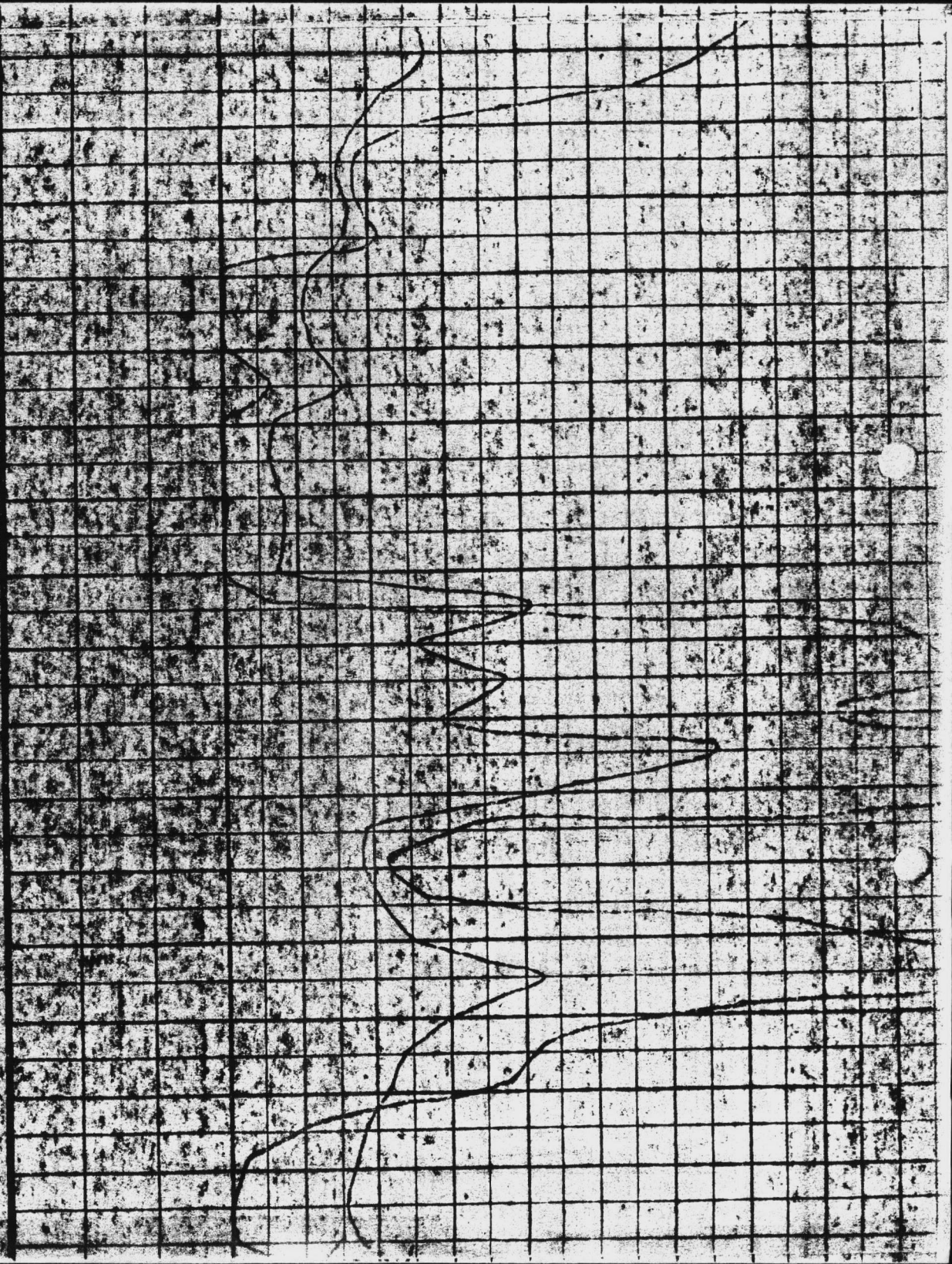
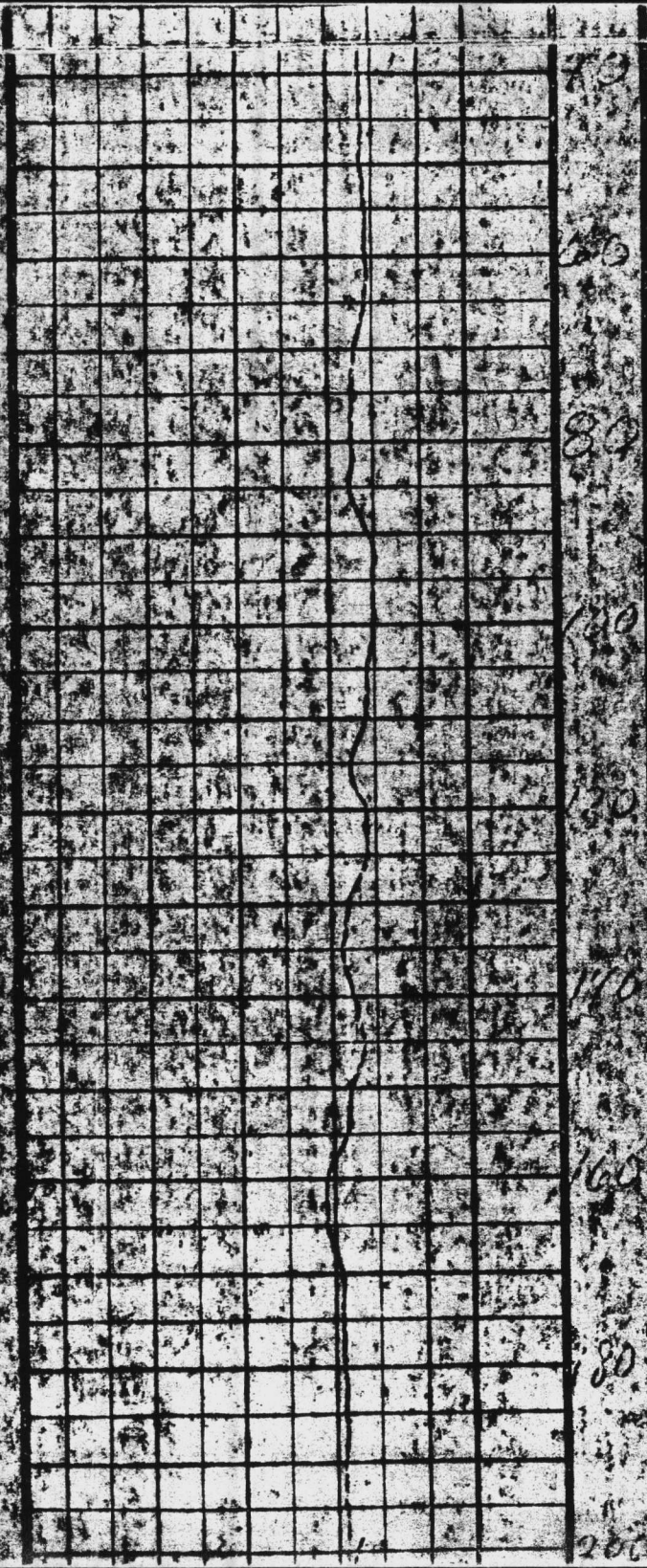
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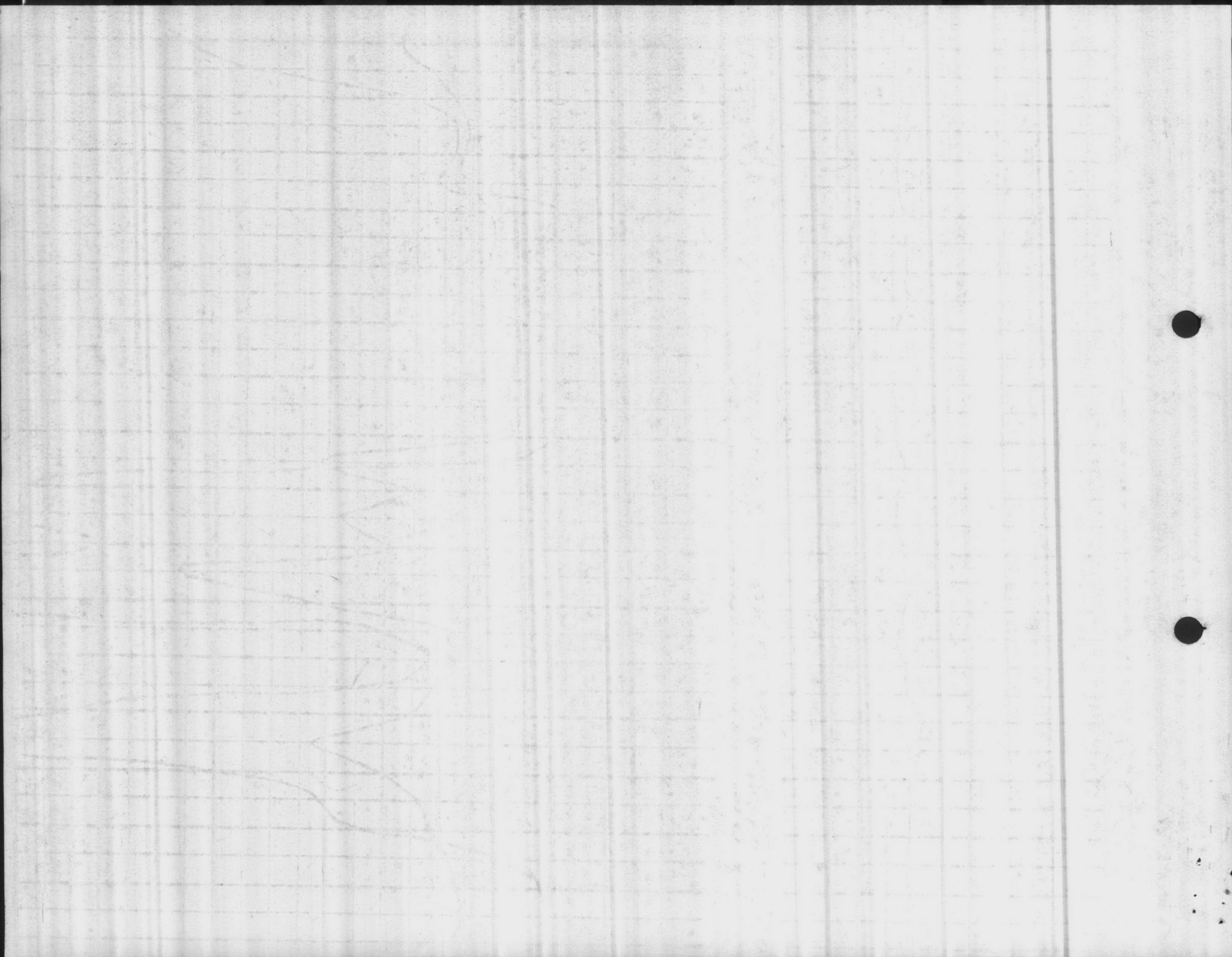
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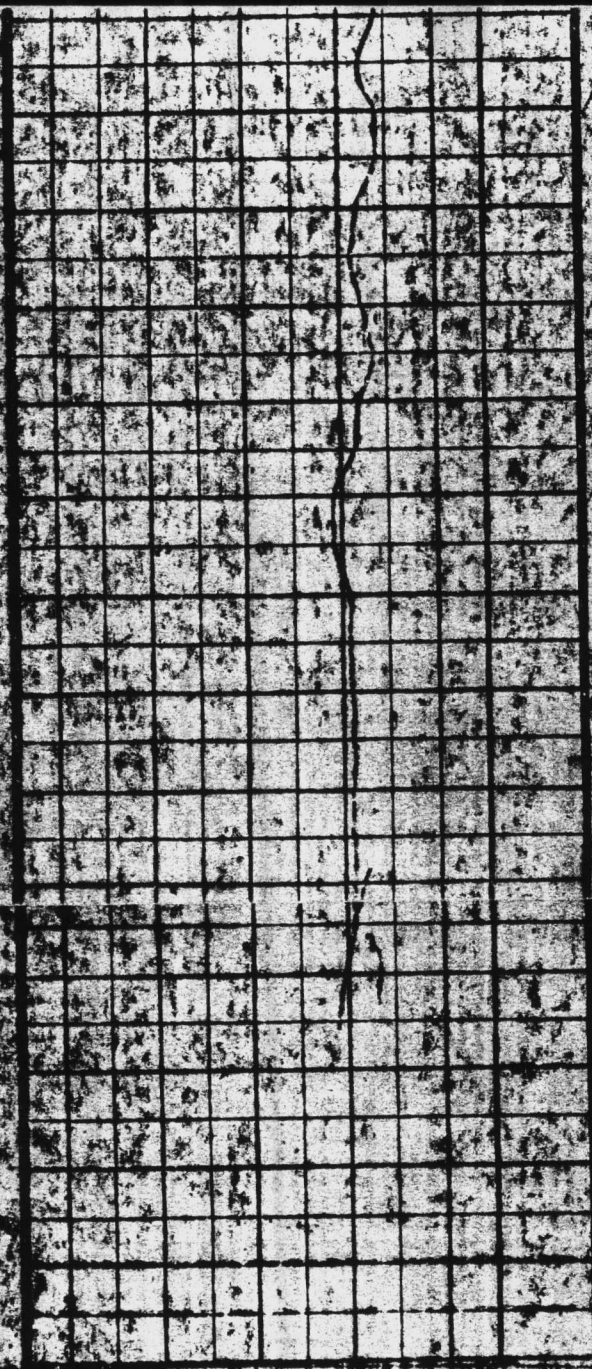
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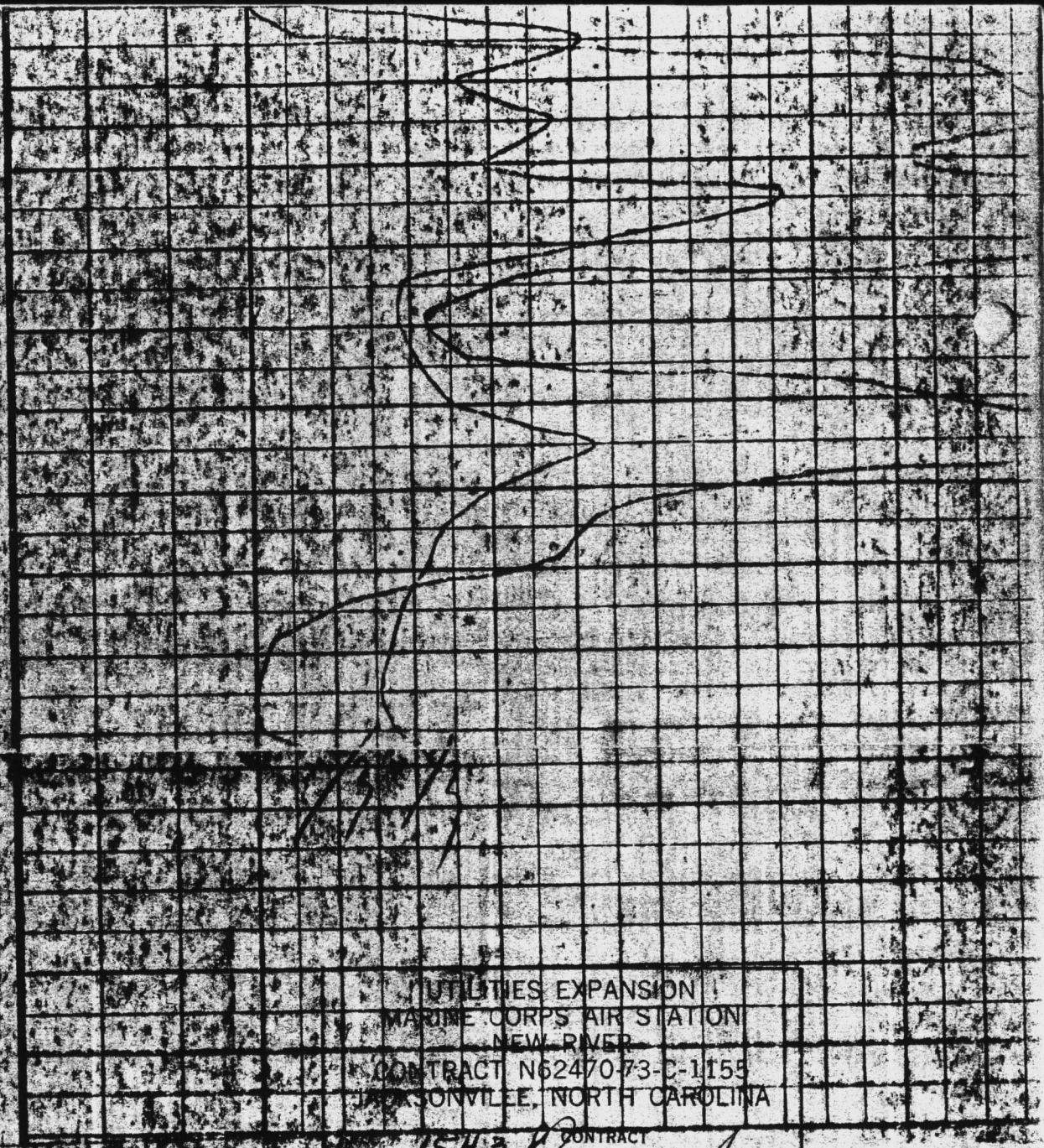
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UTILITIES EXPANSION
MARINE CORPS AIR STATION
NEW RIVER
CONTRACT N62470-73-C-11155
JACKSONVILLE, NORTH CAROLINA

CONTRACT
DWG. NO. 1543.8

CR. &
APP. BY *[Signature]* DATE 17 Jun, 1975

PEABODY-PETERSEN CO.
Job No. 7409

CO. 100 8118284 00
NO. 11 11 11 11 11 11

ALPHABETICALLY BY
SERIAL NUMBER
DATE
NAME
UNIT

