

WELL # 637 5-26-64

O.D. CASE

Finish Floor = 34.0

WELL # 637

EXISTING TOP OF

Gauge Connection = 35.7

1" AIR LINE

8" CASING & SCREEN

ELEV 33.009

0

20' OUTER CASING

ELEV 31.0

20

MAXIMUM PUMPING LEVEL = 18.5

40

50

60

Abandoned 1" AIR LINE

80

ELEV -570 = 90 DEEP

100

150 = 114 DEEP

120

Bottom of Main Pipe = ELEV -99.8

140

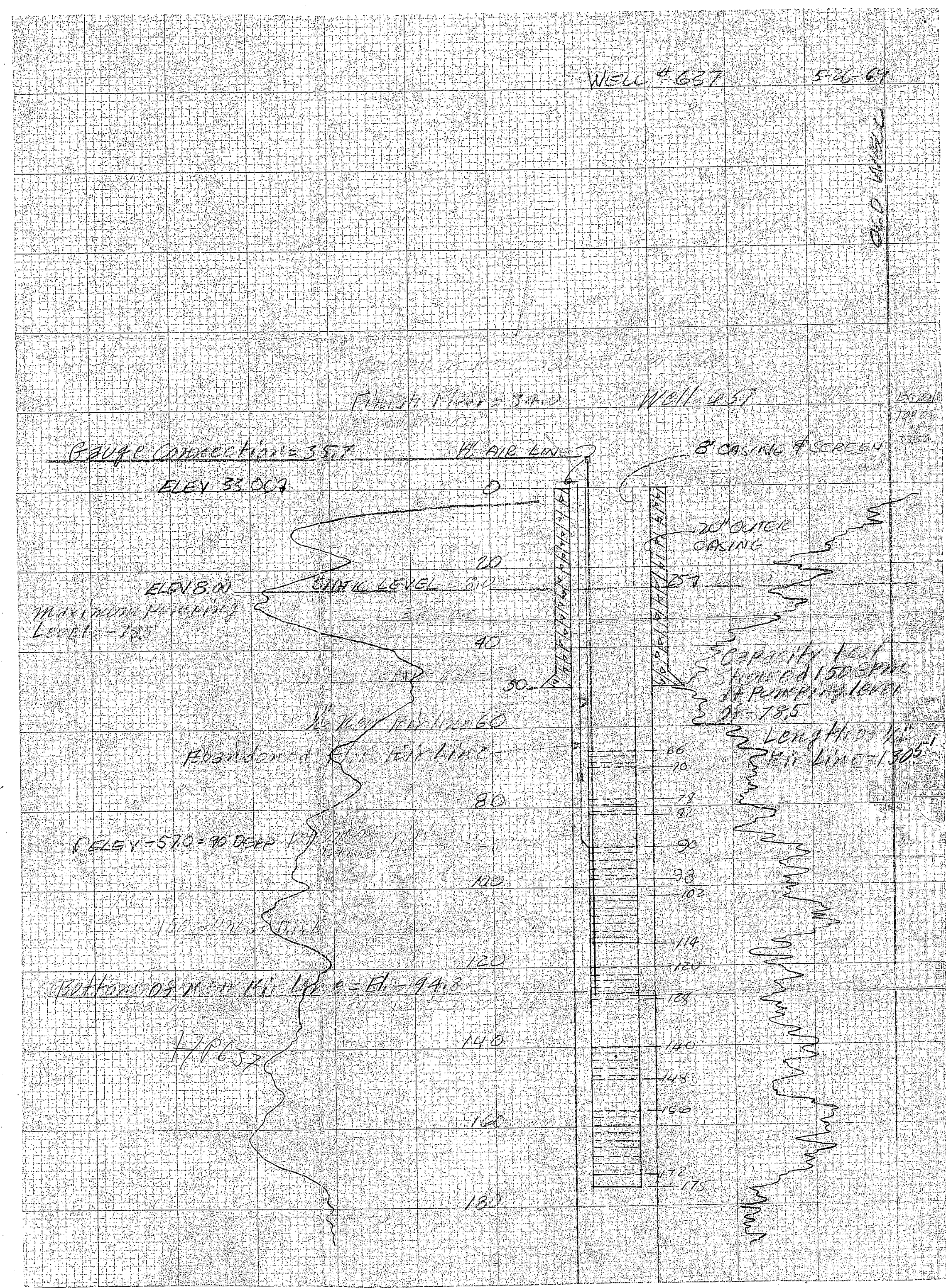
W.P. 637

160

180

0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180

CAPACITY TEST
RUN AT 150 RPM
PUMPING LEVEL
= 18.5
LENGTH OF
AIR LINE = 1305'



1000

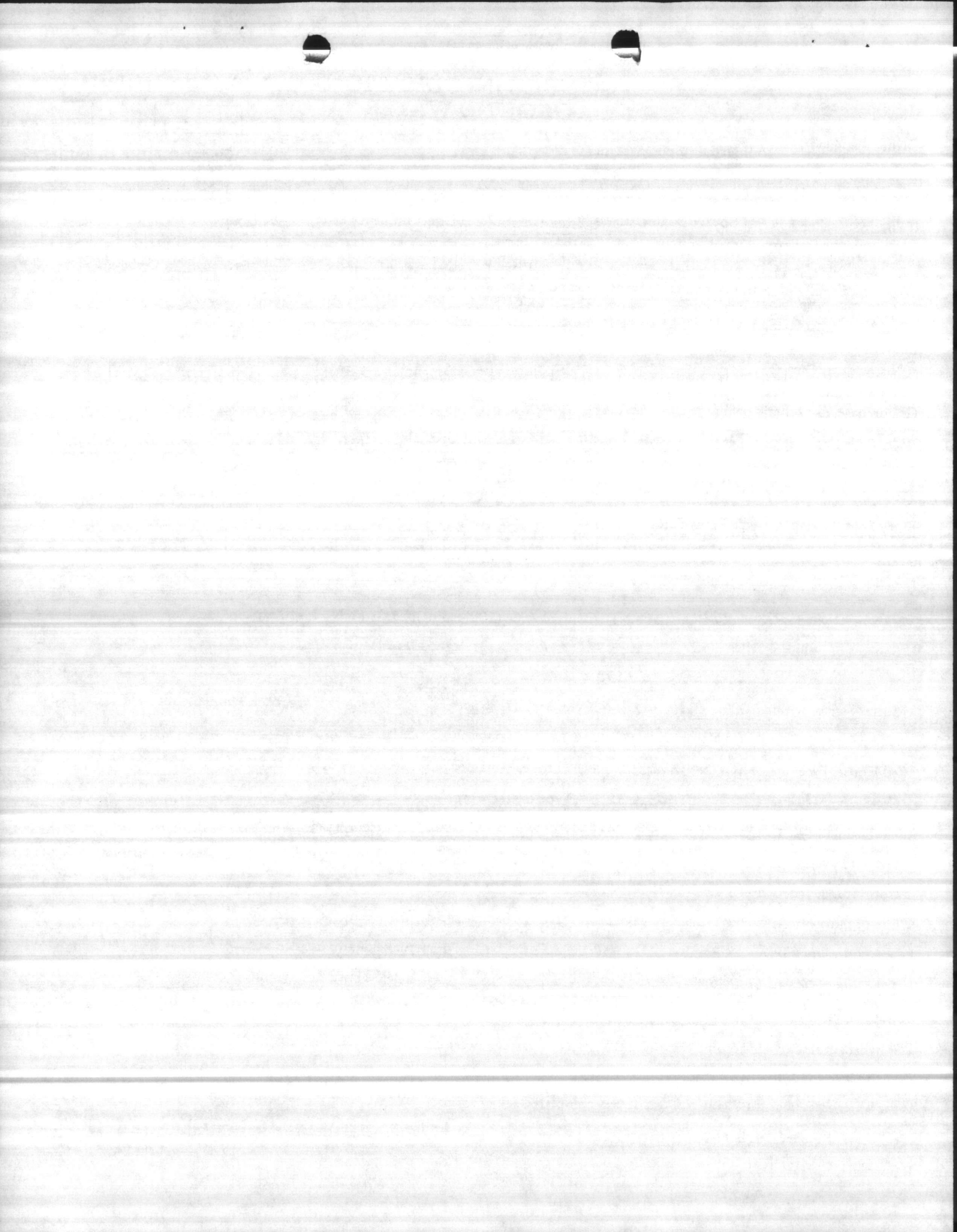
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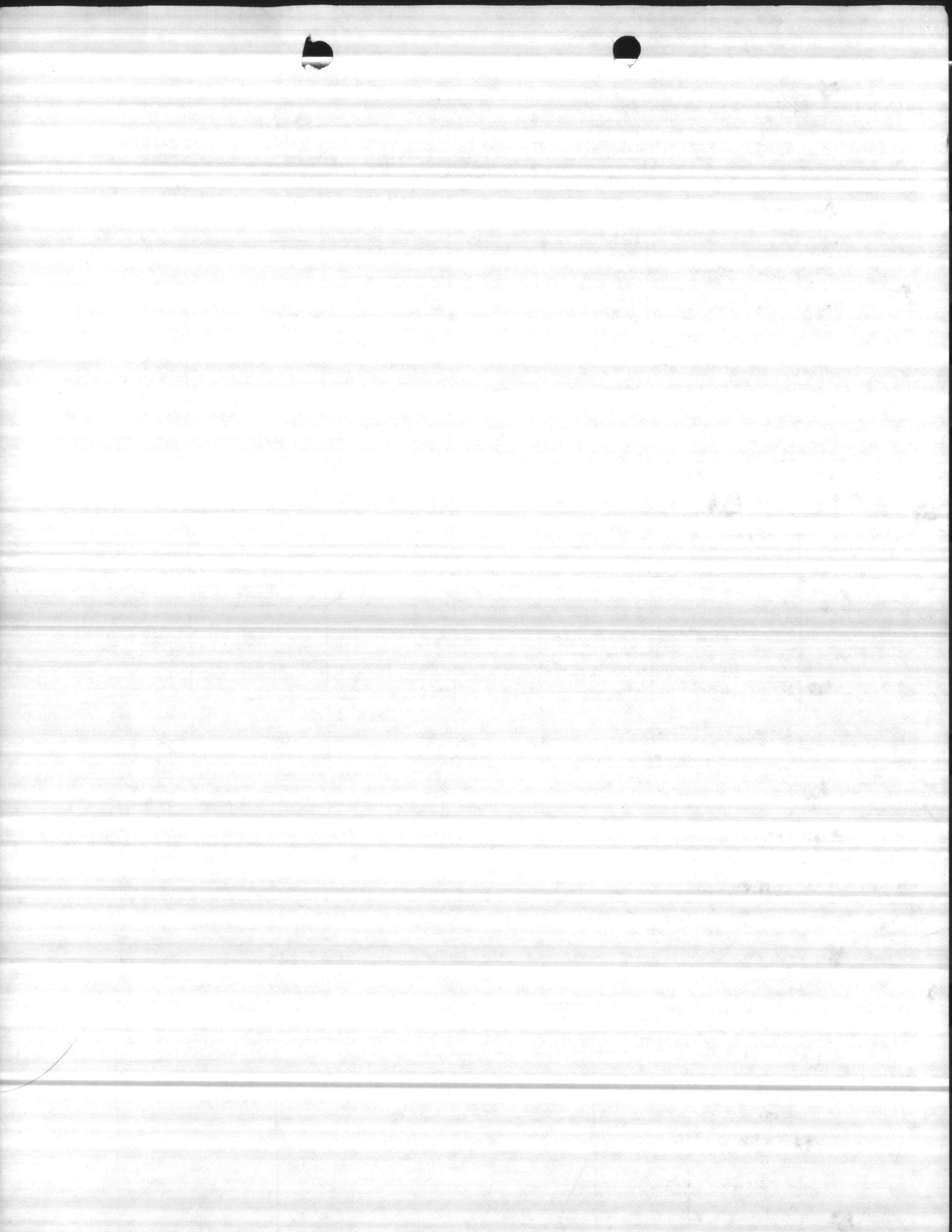
1000

1000

1000

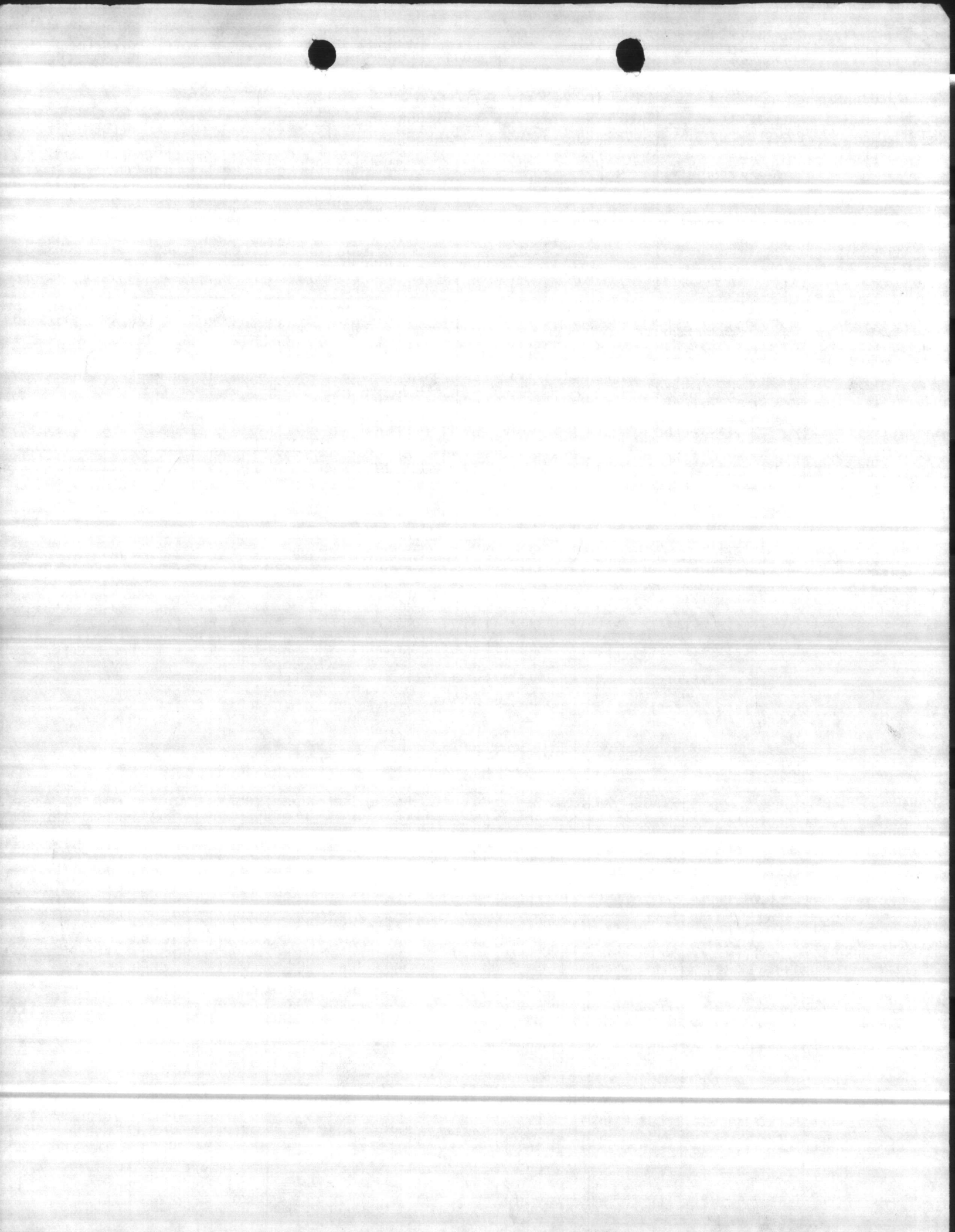
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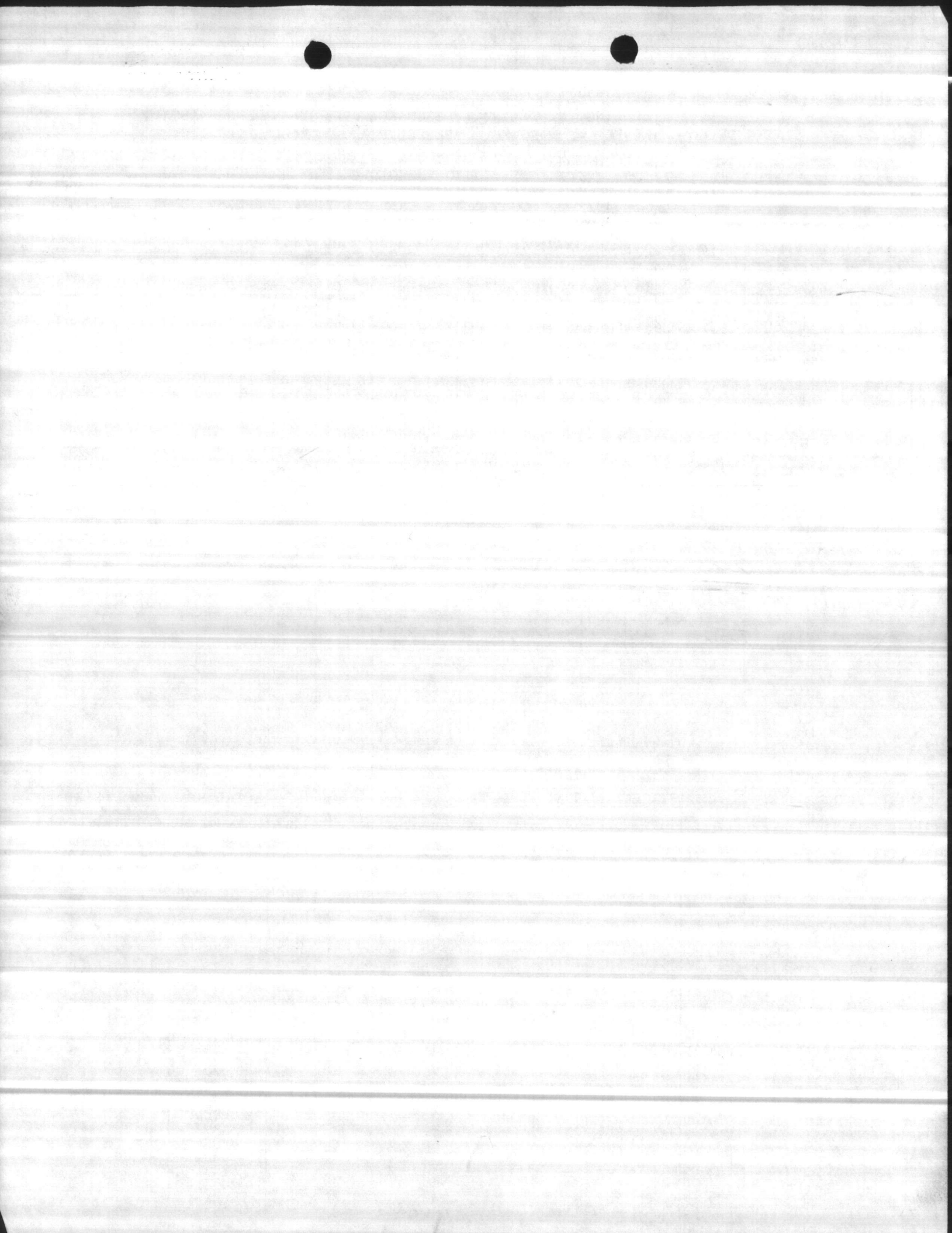






A





637

LENGTH
OF
AIR LINE

STATIC
LEVEL.

PUMPING
LEVEL.

DRAW
DOWN

DISCHARGE
PRESSURE

CAP. PER
FOOT OF
DISCH.

TOTAL
CAP.

148

Start time

0920

~~9-27-82~~

9-27-82

130

31

57

26

40

104

0935

60

29

37

108

0950

63

32

34

115

1005

66

35

31

119

1020

67

36

28

125

1035

69

38

25

128

1050

71

40

22

133

1100

73

42

19

137

1115

75

44

15

140

1130

76

45

12

146

1140

REMARKS:

Stop test at 12 PSI 14 GPM

WELL # 47'

637

DATE	LENGTH OF AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAW DOWN	DISCHARGE PRESSURE	CAP. HEAD FOOT OF DRAW DOWN	TOTAL CAP.
Aug 3, 81	130'	33	70'	37	40 LB	100	
			74'	41	37 LB	111	
			77'	44	34 LB	119	
			80'	47	31 LB	128	
			83'	50	28 LB	133	
			86'	53	25 LB	140	
			89'	56	22 LB	146	
			90'	57	19 LB	151	
REMARKS:							
Set 25 LB.							
			100'	67'	0	190	
DEPTH OF WELL:							
AIRLINE ELEVATION: +							
DATE INSTALLED:							

841 w/ D-R. on ~~needed~~ log

601

76

w/ fusion gear = 70'
w/ D-R. on need
57 58'

WELL #

H.P. 637

LENGTH OF AIR LINE

STATIC LEVEL

PUMPING LEVEL

DRAW DOWN

DISCHARGE PRESSURE

CAP. PER FOOT OF AIR LINE
DRAW DOWN

TOTAL CAP.

DATE

July 21 1981

130'

33

63

30

43[#]

104

66

33[#]

40[#]

119

71

38

37[#]

130

74

41

34[#]

137

76

43

31[#]

146

Set →

79

46

28[#]

151

81

48

25[#]

157

REMARKS:

130

91

58

0

205

New Pump installed 7-23-81

DEPTH OF WELL:
AIRLINE ELEVATION: +
DATE INSTALLED:



WELL #

637

TOP SCREEN
66

LENGTH
OF
AIR LINE

STATIC
LEVEL

PUMPING
LEVEL

DRAW
DOWN

DISCHARGE
PRESSURE

CAP. PER
FOOT OF
DRAW DOWN

TOTAL
CAP.

3/31/77

~~120~~

130.5

72

27

74

26

104

75

24

108

75

22

111

76

20

111

REMARKS:

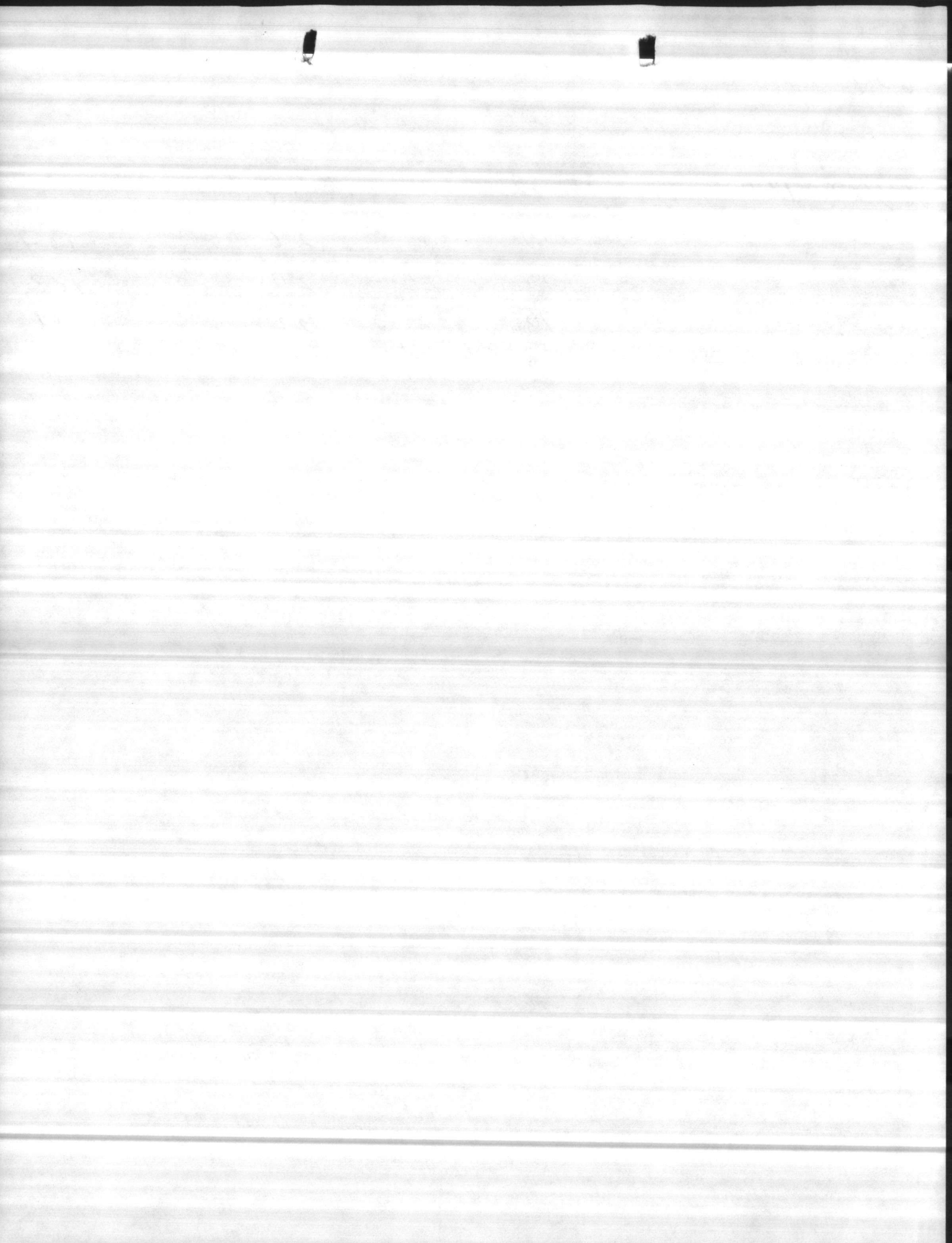
DEPTH OF
WELL:

AIRLINE

ELEVATION: +

DATE

INSTALLED: -



U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVENTORY OF HYDROLOGIC DATA STATIONS
QUALITY OF WATER

APPROVED.
Budget Bureau No. 42-R1485
Approval Expires June 30, 1976

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE 34° 04' 44" N	4. LONGITUDE 77° 19' 54" W			
6. AGENCY STATION NO. HP-637		7. STATION NAME HP-20-637				
8. DRAINAGE BASIN CODE No. Letter 06 N		9. STATE CODE 32	10. COUNTY CODE 133			
		11. COUNTY NAME Onslow				
12. PERIOD OF RECORD Began 1969 Discontinued		13. <input type="checkbox"/> Continuous Interruption Exceeds 1 Year	14.			
15. SITE						
<input type="checkbox"/> 101 Stream <input type="checkbox"/> 104 Reservoir <input checked="" type="checkbox"/> 107 Well <input type="checkbox"/> 102 Canal <input type="checkbox"/> 105 Estuarine zone <input type="checkbox"/> 108 Drain <input type="checkbox"/> 103 Lake <input type="checkbox"/> 106 Spring <input type="checkbox"/> 109 Other						
16. TYPES OF DATA AVAILABLE AND FREQUENCY OF MEASUREMENT (Enter appropriate number (1-8) beside each parameter to indicate frequency of measurement. For parameters telemetered, enter "T".)						
1 Continuous 3 Daily 5 Monthly 7 Annual 2 Seasonal 4 Weekly 6 Quarterly 8 Other Periodic						
<table style="width:100%; border:none;"> <tr> <td style="width:33%; vertical-align: top;"> Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p_H (field) 317 ___ p_H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other </td> <td style="width:33%; vertical-align: top;"> Chemical 331 ___ Dissolved solids 332 ___ 8 Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 ___ 8 Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.) </td> <td style="width:33%; vertical-align: top;"> Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other </td> </tr> </table>				Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p _H (field) 317 ___ p _H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other	Chemical 331 ___ Dissolved solids 332 ___ 8 Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 ___ 8 Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.)	Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other
Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p _H (field) 317 ___ p _H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other	Chemical 331 ___ Dissolved solids 332 ___ 8 Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 ___ 8 Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.)	Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other				
17. SUPPLEMENTARY DATA AVAILABLE FOR STATION						
<input type="checkbox"/> 421 Surface water station <input type="checkbox"/> 423 Water stage or level <input type="checkbox"/> 425 Time of travel <input type="checkbox"/> 422 Ground water station <input checked="" type="checkbox"/> 424 Water discharge <input type="checkbox"/> 426 Drainage area						
18. STORAGE OF DATA						
<input type="checkbox"/> 501 Published <input type="checkbox"/> 503 Data on punchcard <input type="checkbox"/> 505 Other <input checked="" type="checkbox"/> 502 Not published <input type="checkbox"/> 504 Data on magnetic tape, disc, data cell, etc.						
19. INQUIRIES ABOUT DATA SHOULD BE SENT TO:						
Office <u>Base Maintenance Department, Utilities Division</u>						
Street No. <u>Marine Corps Base</u>						
City, State, Zip <u>Camp Lejeune, North Carolina 28542</u>			City Code 0735			
20. DATA ARE AVAILABLE TO PUBLIC ON REQUEST <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
21. OFFICE COMPLETING FORM BASE MAINTENANCE DEPARTMENT						
22. COMPILER'S NAME BOB WILSON			23. DATE Month 12 Year 1976			



637 well house July 16, 1981

static water level 26'
well depth 172'

GPM ^s	Head	RPM	code	Serial	model
150	130	1760	N81	6815440	6XME11A



Well No. 637

Length of air line -----	170 130.5 ft.	+35.7	-94.8
Gallo Per Min. -----	150		
Discharge Pres. -----	21 12		
Pumping Level -----	-78.5		
Drawdown -----	86.5 ft.		
Static Elevation -----	+8.0 ft.		
Depth of Well -----	175 ft.		

STATION 27.7'

D.D. 51'

26

Well no.

037 - Pumping pressure = 24.5[#] - 150 GPM. 6990 Ft. = 35.7

Max. D.D. Elev. = -78.5

038 - Pumping pressure = 22.5[#] - 180 GPM. 6870 Ft. = 27.5

Max. D.D. Elev. = -75.5

039 - Pumping pressure = 43.0[#] - 180 " " " = 19.9

Max. D.D. Elev. = -29.0

040 - Pumping pressure = 49.0[#] - 294 " " " = 33.0

Max. D.D. Elev. = -20.0

6.8

Training

thing cost

1st qt. Reg.

as soon as possible

Sup Train may 18. 30
city meeting

fire drills once each qt.
fire drill held in Bldg 20

clean wells at 1 to

W G Larner

31566002

9.0.N.

24P 5/14/81 PM

Am-23-4047-2383-T

Bldg HP 637

4/19/81

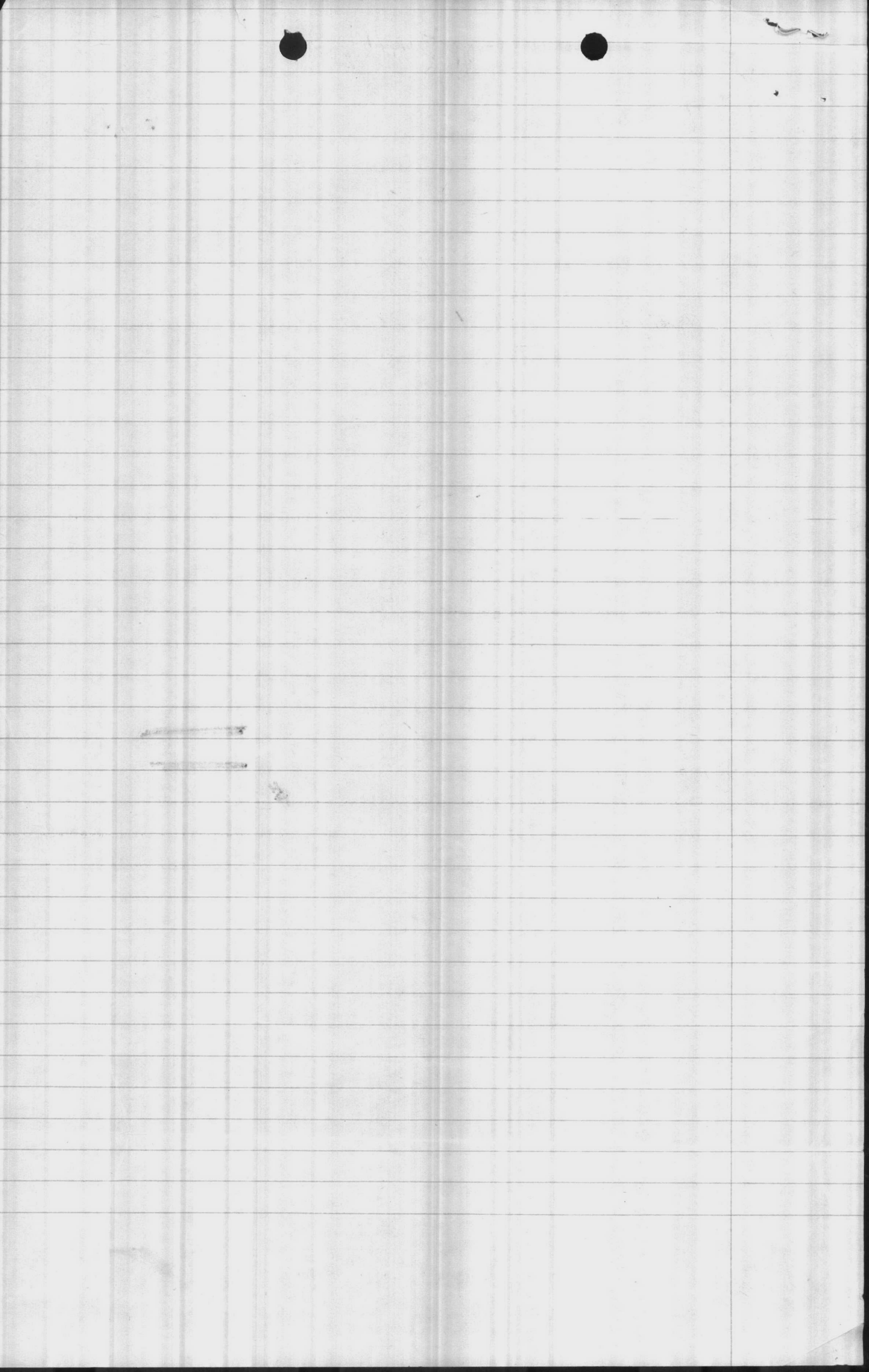
PUMP, JOHNSTON VERTICAL TURBINE COMPLETE
 FOR DEEP WELL. WATER LUBRICATED, WITH
 PACKING BOX ASSY. FOR TYPE A 10X6 DISCHARGE HEAD.
 LESS ELECT MOTOR + DISCHARGE HEAD
 COLUMN ASSEMBLY SIZE 5" X 1" X 130"
 1. SUCTION, 5" X 10' WITH CONE STRAINER
 CAPACITY 150 GPM @ 140' T.D.H.
 1750 RPM

LINESHAFT BEARINGS TO BE 10' APART.
 PACKING BOX ASSY. MUST BE JOHNSTON. OTHERS
 WILL NOT INTERCHANGE

EA. 1 @ \$6500.00

SS: JOHNSTON PUMP CO
 CHATTANOOGA TENN

OVERHEAD @ 33.8 = ~~100.00~~
 LABOR 24 HRS @ 10.25 = ~~246.00~~
 OVER ~~100.00~~ \$347.76



A.P. 637



SECTION 3
Page 10
Effective Date: 3-5-79
Replaces: New

INSTALLATION PLAN
TYPE 1000 DISCHARGE HEAD

10 HP 1800 RPM H 208 VOLT, 3 PH 60 HZ
✓ NO OTHER

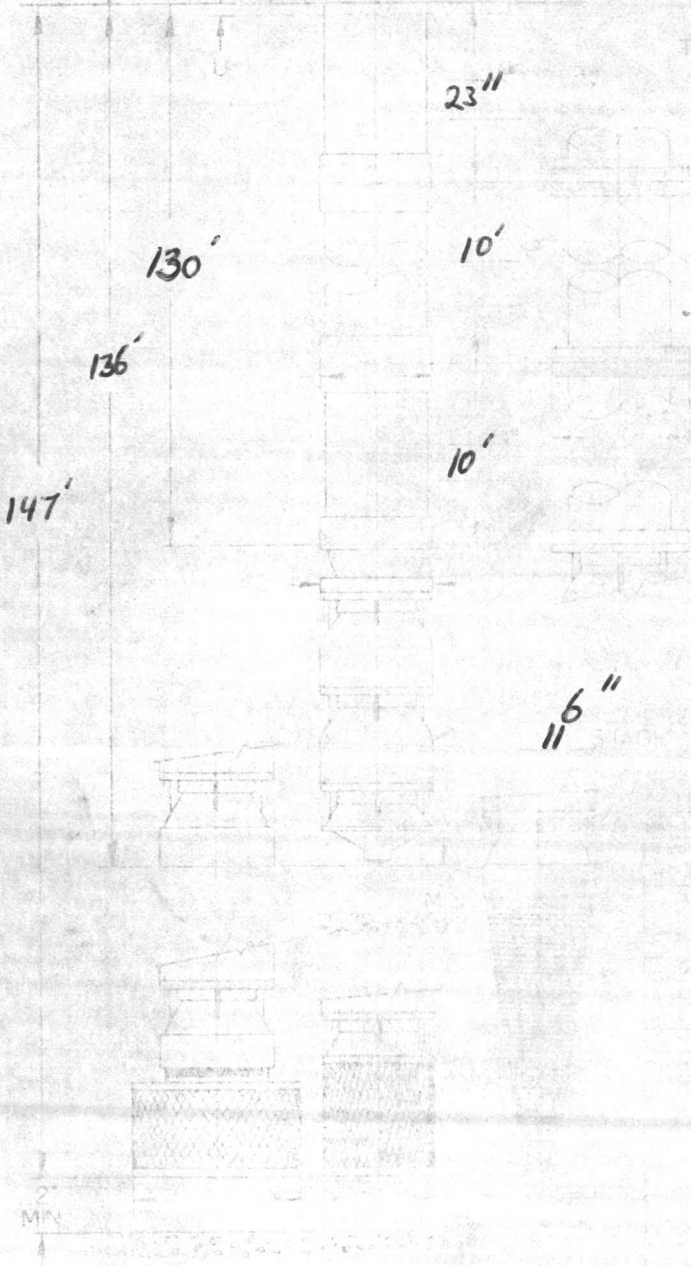
NPT
CONDUIT
CONNECTION



TAPPED HOLES



HOLES



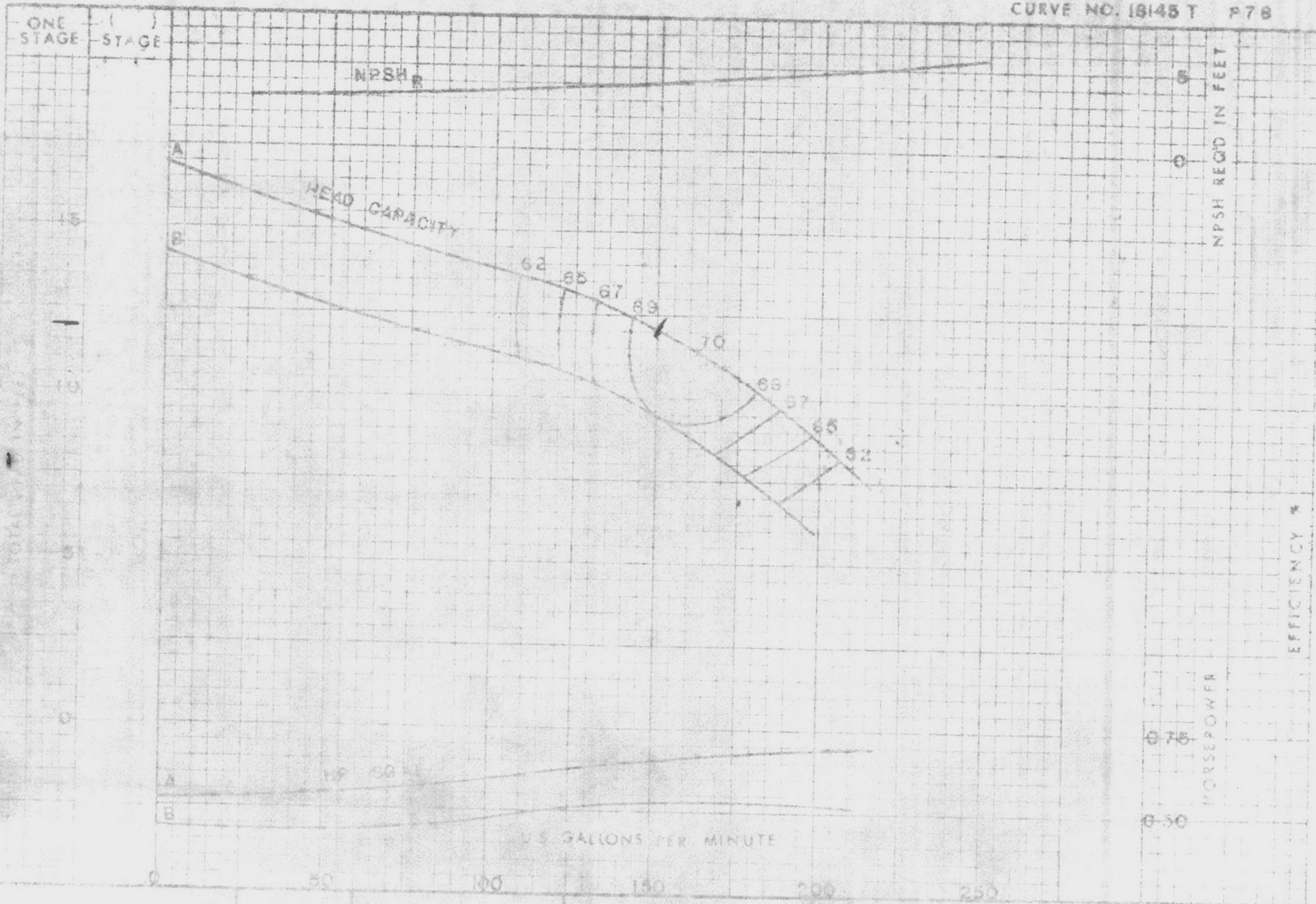
4" COLUMN PIPE ✓
1" ENCL. PIPE

3" HOLES
4" TAPPED HOLES



DIMENSIONS ALL AROUND	
CUSTOMER	6XME <i>KJS</i>
LOCATION	150
	130
	1760
FOP APPROVAL	





VALLEY PUMP GROUP

6"

6XME

1760 RPM

SEE REVERSE SIDE FOR DETAILED INFORMATION

3106
2224 Odum



Johnson pump

May 4, 1981

Type	imp	Serial no	Date.
7.CC	F	GR-1701	10.16.69

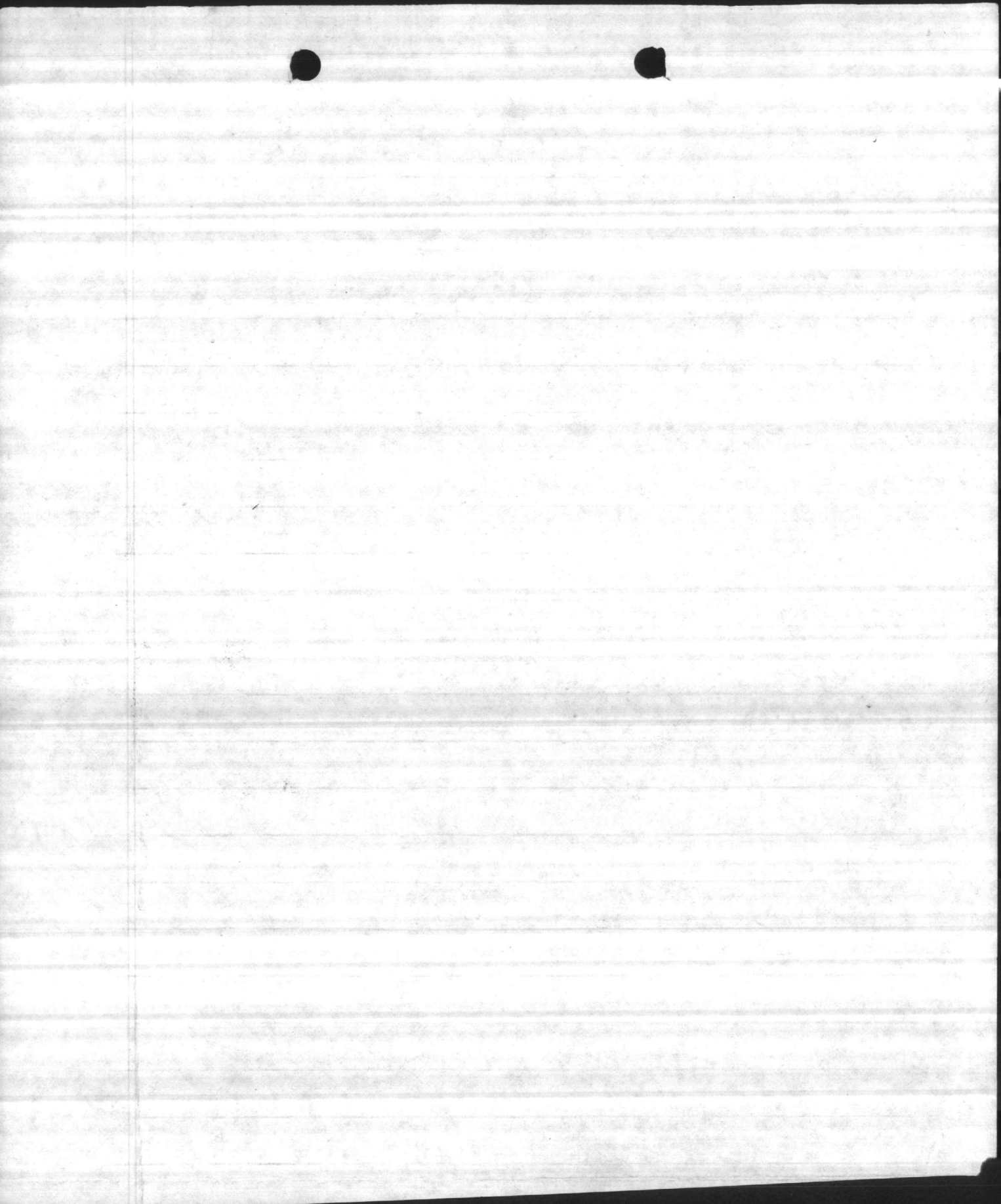
120' colum - 10' tail piece + strainer

1" sleft. L.H. thread
course

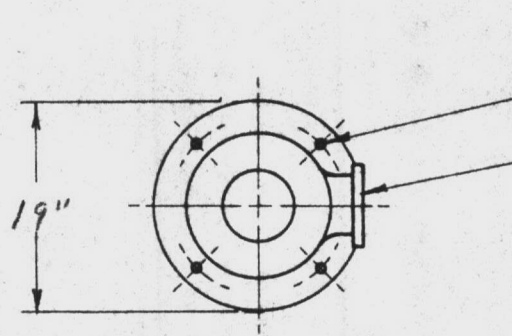
static water level
25'

well depth
180'

Pulled Due to Not Pumping. Column
was in Two - Dropped in well + got
out. New pump on order

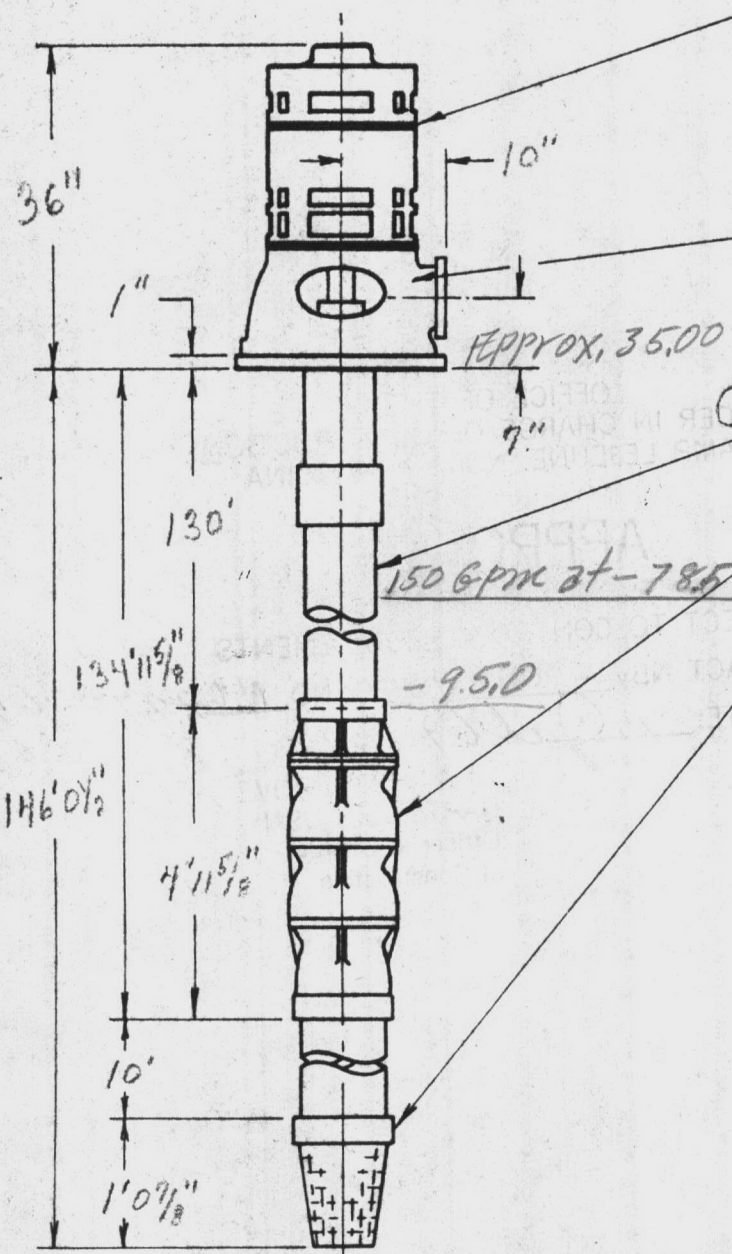


JOHNSTON VERTICAL TURBINE PUMP *Well No. 637*



← $5/8$ " DIA. HOLES ON $1\frac{3}{4}$ " B.C.
 5 " x 125 ASA DISCHARGE FLANGE

CONDITIONS:
 U.S. GALLONS PER MINUTE— 150
 TOTAL DYNAMIC HEAD IN FT.— 130
 LIQUID— *Water*
 SPEC. GRAV. 1.0 @ °F. TEMP.



VERTICAL HOLLOW SHAFT MOTOR
 HP— 10 PHASE— 3 CYCLE— 60
 VOLTAGE— 208 RPM— 1760
 ENCLOSURE— *W.P.F.*

TYPE "A" DISCHARGE HEAD— 10 x 6

① COLUMN ASSEMBLY— 5" x 2" x $1\frac{3}{16}$ "

BOWL ASSEMBLY— 7 STAGE 7CC
 150 GPM at — 78.5 DD E/ft.

SUCTION PIPE & CONE STRAINER—

CUSTOMER *Camp Lejeune, N.C.*
 PO# *N62470-69-C-0992*

DEALER *Hartsfield Water Co*
 PO#

JOHNSTON SERIAL NO. *GB 1901*
 JOHNSTON QUOTATION NO. *682-B-1064*

Well # 637
 NOTE: DO NOT USE FOR CONSTRUCTION
 UNLESS CERTIFIED

① Column tube *Genuine Wrought Iron.*

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy _____ SPEC. NO. N 62470-69-C-

DATE: 10 Jul 69

Alm.
J. W. UPDEGROVE
CAPT. CEC, USN
Officer in Charge
of Construction

0792

NOTE: All COLUMN LOSSES ARE INCLUDED

JOHNSTON: REF. NO. 688-B-106N-GB-1701

DEALER: Hartsfield Water Co

REF. NO. _____

CUSTOMER: Camp Lejeune, N.C

REF. NO. N 62470-69-C-0792

TOTAL DYNAMIC HEAD IN FEET

REQ'D N.P.S.H. SUBMERGENCE-FEET

% EFFICIENCY

BRAKE HORSEPOWER

Well # 637

150 GPM
130 TDH

Bowl
E.S.

U.S. GALLONS PER MINUTE

THE CAPACITY, HEAD AND EFFICIENCY GUARANTEE IS FOR THE DESIGNATED POINT ONLY: IT IS BASED ON SHOP TESTS, WHEN HANDLING CLEAR, FRESH WATER AT A TEMPERATURE OF NOT OVER 85° F. AND UNDER SUCTION CONDITIONS AS SPECIFIED IN THE CONTRACT.

IMPELLER C.I.-Vt. ES
 BOWLS CAST Iron
 LIQUID Water
 SP. GR. 1.0
 DATE 6-30-69 BY 7192

JOHNSTON PUMP CO.



VERTICAL PUMPS

GLENDORA • CALIFORNIA • U. S. A.

Turbine PERFORMANCE
7 STAGE 7cc PUMP
1760 R.P.M.

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

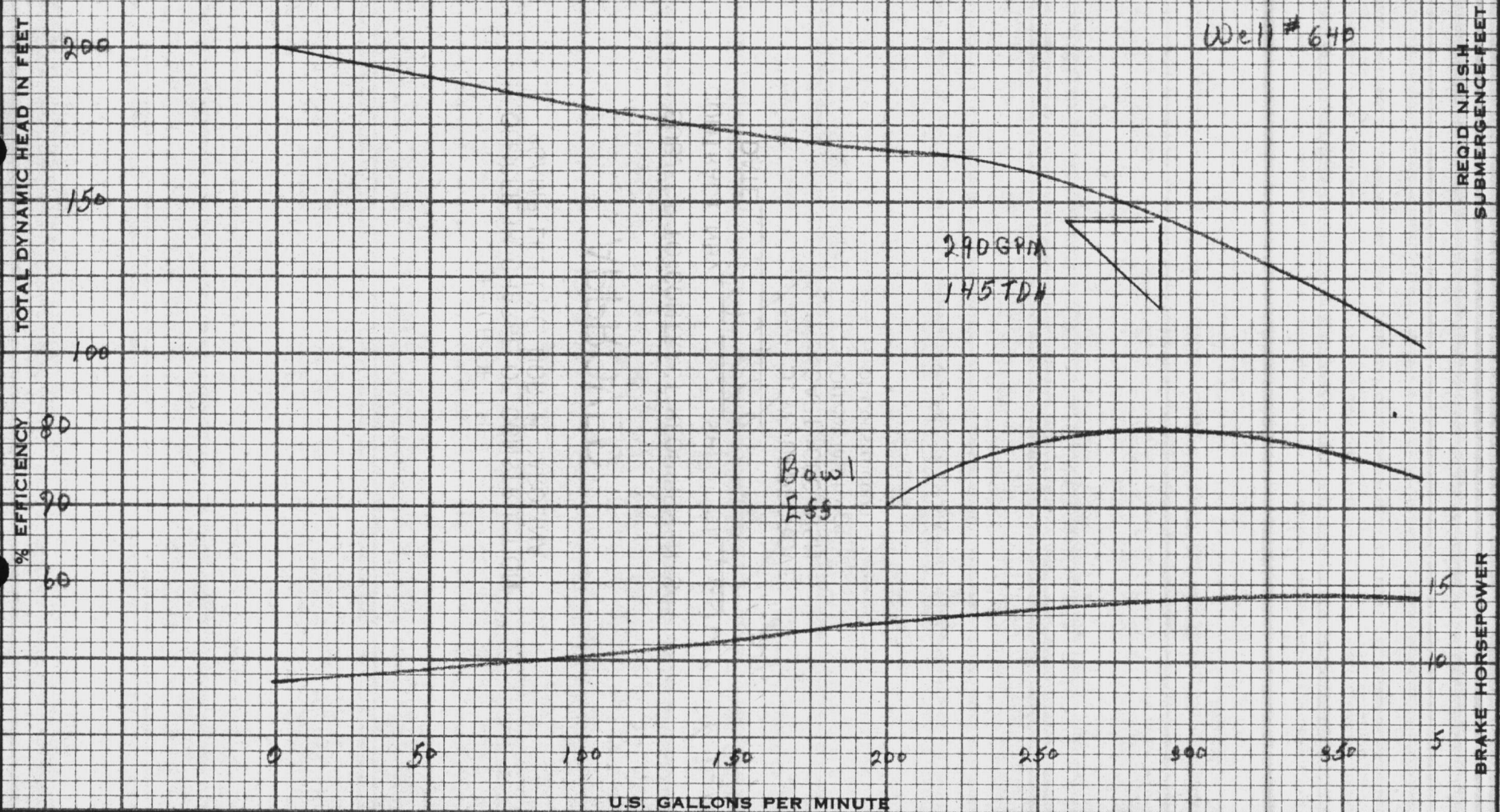
CONTRACT NBy _____ SPEC. NO. *N62470-69-C-0792*

DATE: *10 July 69*

A.L.M.
J. W. UPDEGROVE
CAPT. CEC, USN
Officer in Charge
of Construction

NOTE: All COLUMN LOSSES ARE INCLUDED

JOHNSTON: REF. NO. 688-B-106N GB-1704
 DEALER: Hartsfield Water Co REF. NO. _____
 CUSTOMER: Camp Lejeune, N.C. REF. NO. N-62470-69-C-0792



THE CAPACITY, HEAD AND EFFICIENCY GUARANTEE IS FOR THE DESIGNATED POINT ONLY: IT IS BASED ON SHOP TESTS, WHEN HANDLING CLEAR, FRESH WATER AT A TEMPERATURE OF NOT OVER 85° F. AND UNDER SUCTION CONDITIONS AS SPECIFIED IN THE CONTRACT.

IMPELLER CI-Vit DIA ES
 BOWLS Cast Iron-Vit.
 LIQUID Water
 SP. GR. 1.0
 DATE 6-30-69 BY WJD

JOHNSTON PUMP CO.

VERTICAL PUMPS
 GLENDORA • CALIFORNIA • U. S. A.

Turbine PERFORMANCE
6 STAGE 800 PUMP
1760 R.P.M.

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy _____ SPEC. NO. N62470-69-C-0792

DATE: 10 Jul 69 J.W.

J. W. UPDEGROVE
CAPT. CEC, USN
Officer in Charge
of Construction

WORK REQUEST (CONTROLLED MAINTENANCE)

NAVDOCKS 2351 (REV. 2-61)

(PW Department see Instructions in NAVDOCKS P-321)

Requestor see Instructions on Reverse Side

PART I - REQUEST (Filled out by Requestor)

1. FROM: Director, Mtwk Utilities Division		2. REQUEST NO. 59-71
3. TO: Director, Operations Division		4. DATE OF REQUEST 7/16/71
5. REQUEST FOR <input type="checkbox"/> COST ESTIMATE <input type="checkbox"/> PERFORMANCE OF WORK		
6. FOR FURTHER INFORMATION CALL J. E. Herndon, Ph. 5161		7. SKETCH/PLAN ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO

8. DESCRIPTION OF WORK AND JUSTIFICATION (Including location, type, size, quantity, etc.)

Repair well No. 637, Hadnot Point. {Open end}

(4)
7/19/71

STUFFIN BOX BROKEN

July 1971

APPROVED. Will be accomplished as soon as practicable on Work

^{JON}
~~Ticket~~ # AA2-23-3972-23XX-T

7/26/71

9. FUNDS CHARGEABLE	10. SIGNATURE (Requesting Official) <i>J. E. Herndon</i> J. E. HERNDON
---------------------	---

PART II - COST ESTIMATE (Filled out by Maintenance Control Division if estimate requested)

11. TO:		12. ESTIMATE NO.
13. COST ESTIMATE		14. SKETCH/PLAN ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO
a. Labor		15. Based on present backlog, work can be started within _____ days after receipt of authorization.
b. Material		
c. Overhead and/or Surcharge		
d. Contingency		
e. TOTAL	\$	16. SIGNATURE
		17. DATE

PART III - ACTION (Filled out by Requestor)

18. TO:		20. WORK REQUESTED <input type="checkbox"/> HAS BEEN CANCELED <input type="checkbox"/> HAS BEEN DEFERRED <input type="checkbox"/> WILL BE PERFORMED BY OTHERS	
19. AUTHORIZATION TO PROCEED IS ATTACHED (Check one if other than PW funds are involved) <input type="checkbox"/> NAVCOMP 140 <input type="checkbox"/> OTHER		22. DATE	
21. SIGNATURE			

(See Part IV on Reverse Side)

INSTRUCTIONS

IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I, checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and

attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

Requestor fills in all items in Part I, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to the Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15 as applicable, 16 and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

PART IV — REMARKS

JUN 2 1 47 PM '71

WORK REQUEST (CONTROLLED MAINTENANCE)

NAVDOCKS 2351 (REV. 2-61)

(PW Department see Instructions in NAVDOCKS P-321)

Requestor see Instructions on Reverse Side

PART I - REQUEST (Filled out by Requestor)

1. FROM: Director, Utilities Division		2. REQUEST NO. 40-71	
3. TO: Base Maintenance Dept. (Attn: Mr. Plowden)		4. DATE OF REQUEST 5/21/71	
5. REQUEST FOR <input type="checkbox"/> COST ESTIMATE <input type="checkbox"/> PERFORMANCE OF WORK			
6. FOR FURTHER INFORMATION CALL J. E. Herndon, Ph. 5161		7. SKETCH/PLAN ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO	
8. DESCRIPTION OF WORK AND JUSTIFICATION (Including location, type, size, quantity, etc.)			

Repair well No. 637 (Hadnot Point)
Open end.

(4)
6/2/71

APPROVED. Will be accomplished as soon as practicable on Work

^{JON}
Ticket # AAI-23-4746-23XX-T

Completed 6-11-71
Cleaned

9. FUNDS CHARGEABLE	10. SIGNATURE (Requesting Official) <i>J. E. Herndon</i>
---------------------	---

PART II - COST ESTIMATE (Filled out by Maintenance Control Division if estimate requested)

11. TO:		12. ESTIMATE NO.	
13. COST ESTIMATE		14. SKETCH/PLAN ATTACHED <input type="checkbox"/> YES <input type="checkbox"/> NO	
a. Labor		15. Based on present backlog, work can be started within _____ days after receipt of authorization.	
b. Material			
c. Overhead and/or Surcharge		16. SIGNATURE	
d. Contingency			
e. TOTAL	\$		

PART III - ACTION (Filled out by Requestor)

18. TO:		19. AUTHORIZATION TO PROCEED IS ATTACHED (Check one if other than PW funds are involved)		20. WORK REQUESTED	
		<input type="checkbox"/> NAVCOMP 140 <input type="checkbox"/> OTHER		<input type="checkbox"/> HAS BEEN CANCELED <input type="checkbox"/> HAS BEEN DEFERRED <input type="checkbox"/> WILL BE PERFORMED BY OTHERS	
21. SIGNATURE				22. DATE	

INSTRUCTIONS

IF ESTIMATE IS DESIRED BEFORE WORK IS STARTED

Requestor fills in all items in Part I, checks "Cost Estimate" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the original and first copy will be returned to the requestor with Part II completed. If the requestor desires the work to proceed in accordance with the estimate provided, he should fill in Part III, checking proper block in item 19 and attaching the document citing the funds to be used. If the requestor decides not to authorize the work, the appropriate box in item 20 should be checked. The original form, in either case, is returned to the Public Works Department.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to the requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE NOT UNDER COGNIZANCE OF PWO

Requestor fills in all items in Parts I and III except item 20, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, checks proper block in item 7, checks proper block in item 19, and

attaches document citing the funds to be used. Requestor retains last copy and forwards balance to Public Works Department.

If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15, 16, and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

IF ESTIMATE IS NOT DESIRED BEFORE WORK IS STARTED AND FUNDS ARE UNDER COGNIZANCE OF PWO

Requestor fills in all items in Part I, checks "Performance of Work" in item 5, attaches sketch or plan if necessary, and checks proper block in item 7. Requestor retains last copy and forwards balance to the Public Works Department.

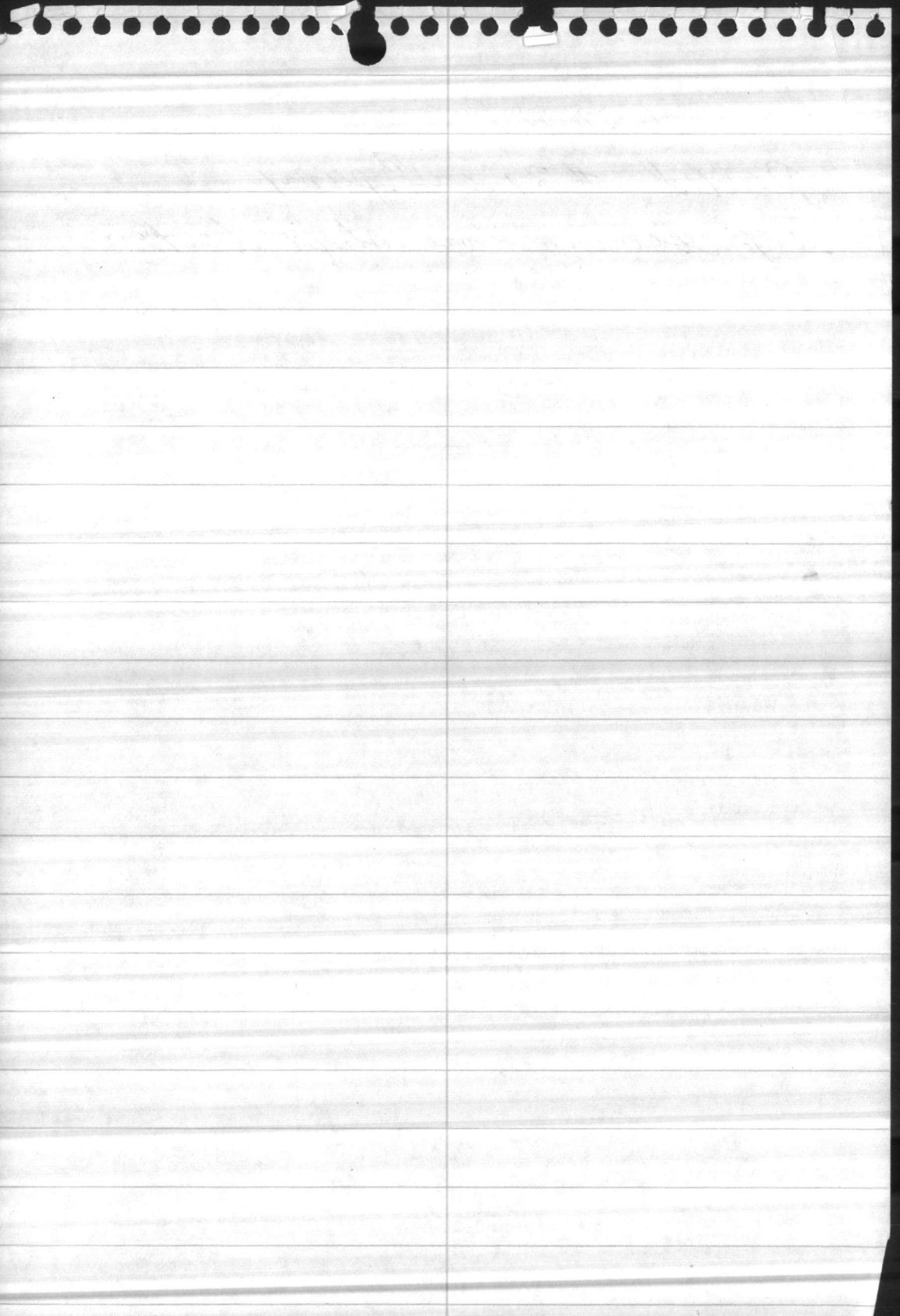
If the Work Request is approved, the first copy will be returned to the requestor with items 11, 12, 15 as applicable, 16 and 17 of Part II completed.

If the Work Request is disapproved, the reasons for disapproval will be stated in Part IV, signed by the Public Works Officer, and the original and one copy returned to requestor.

PART IV — REMARKS

6-22-72

Pulled #37 well pump
Top bearing line shaft broken



H.P. Well 637

Camp Lejeune, N.C.

Well #638

March 4, 1922

F.L. = 25.3

Gauge Connection = 24.8

~~0-100~~ E/OV 25.0

RESISTIVITY - 50 OHMS

Static L. = 40.00
00.00

8" WROUGHT IRON PIPE

20" Steel Casing

seal cement
MAXIMUM PUMPING
Level = -75.5

58' Draw Dn.

AIR LINE 1/2" WROUGHT IRON PIPE

HP 638

Bottom of F.L. = 81.2

100 180 GPM @ 24 DD. Elev. -75.5

100 180 GPM @ 24 DD. Elev. -75.5

126 Stainless Steel Screen
134

Capacity test showed 180 GPM at pumping level of -75.5

Length of 1/2" Air Line = 108'

638 BENZENE
11-10-92

112' 10'

0
20
40
60
80
100
120
140
160
180
200
220





Camp Lejeune, N.C.

Well #638

March 4, 1948

F.L. = 25.3

Gauge Connection = 24.8

P-100 Elev. 25.0

RESISTIVITY - 50 OHMS

Static L. = 4.00
00.00

8" WROUGHT IRON PIPE
20" steel casing

seal cement
maximum pumping
Level = -75.5

58' Draw Dia.

AIR LINE 1/2" WROUGHT IRON PIPE

HP 638

100' 180 GPM at DD/Elev. -75.5

Bottom of F.L. = 81.02

to 11.5 ft. depth = 100.5

106'
114'
126' Stainless steel screens
134'

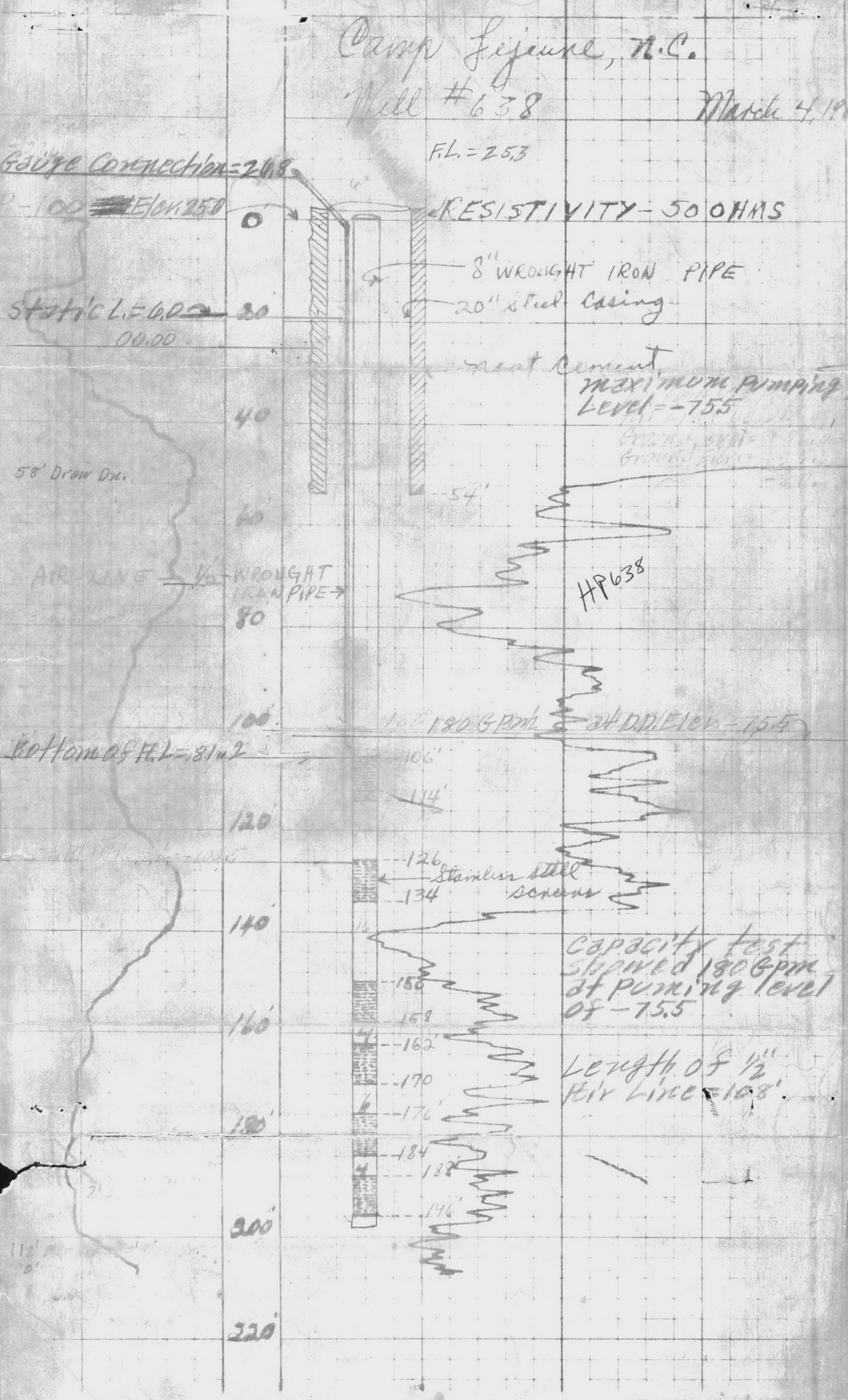
Capacity test
stopped 180 GPM
at pumping level
of -75.5

Length of 1/2"
Air Line = 108'

200'

220'

112' 10'





SOURCE INFORMATION GROUND WATER

Date Form Completed

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

PWSID
0
4
6
7
0
4
1

Owner Assigned Source Code

638

Well Name (If purchase, name of system)

HADDON POINT 638

Code

G

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

If Purchase, seller ID#

Source Begin Date

M	M	Y	Y

Source exempt— SWTR?

Y
 N

Direct Influence Date

M	M	D	D	Y	Y

Availability

P
 E
 S

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

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

MAIN SERVICE ROAD

T/B ABANDONED

Latitude (N)

Deg.	Min.	Sec.
3	4	39

Longitude (W)

Deg.	Min.	Sec.
0	7	7

How Determined

G=GPS
 M=Map
 S=Surveyed

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

Availability

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

Owner Assigned Entry Point Code

100

Entry Point Name

HP 638

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:

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

Condition of house: Type of freeze protection:

Well: Diameter: 8" Type: GRAVEL PACK Yield (gpm): 201 Properly sealed? (Y,N)

Properly vented? (Y,N) Casing depth 106 ft. (If unknown, put 'UNK') Well depth: 197' Meter available? N (Y,N)

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

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

Pumps: Capacity: GPM: 108 HP: 10 Pump intake depth: 125 Auxiliary Power? Y (Y,N)

Type pump: VERTICAL TURBINE Height above floor (pump/casing): 12" /

Storage at well site: Elev: Hydro: Ground:

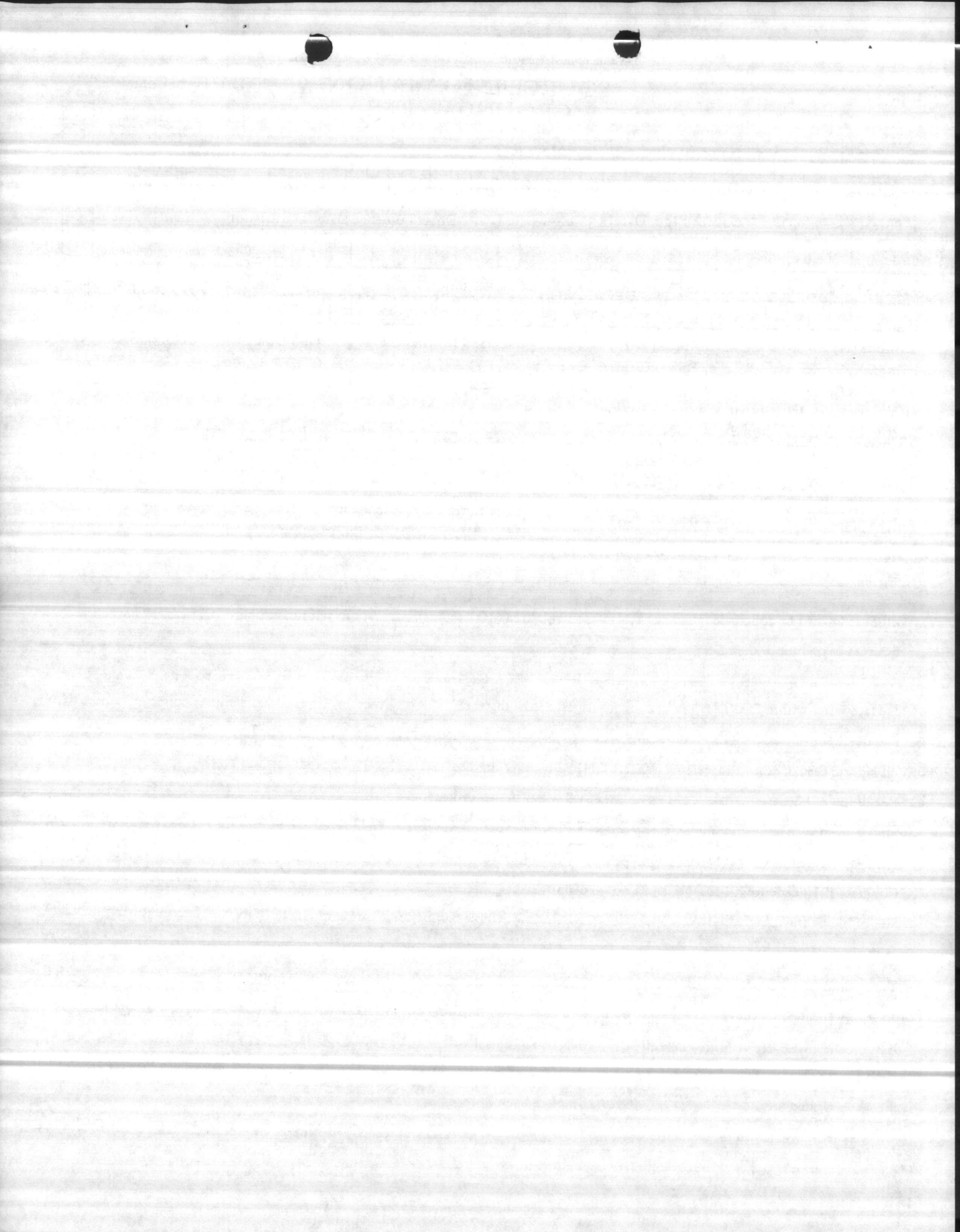
If hydroautomatic, air volume control? (Y,N) Safety valves? (Y,N) Coded? (Y,N)

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

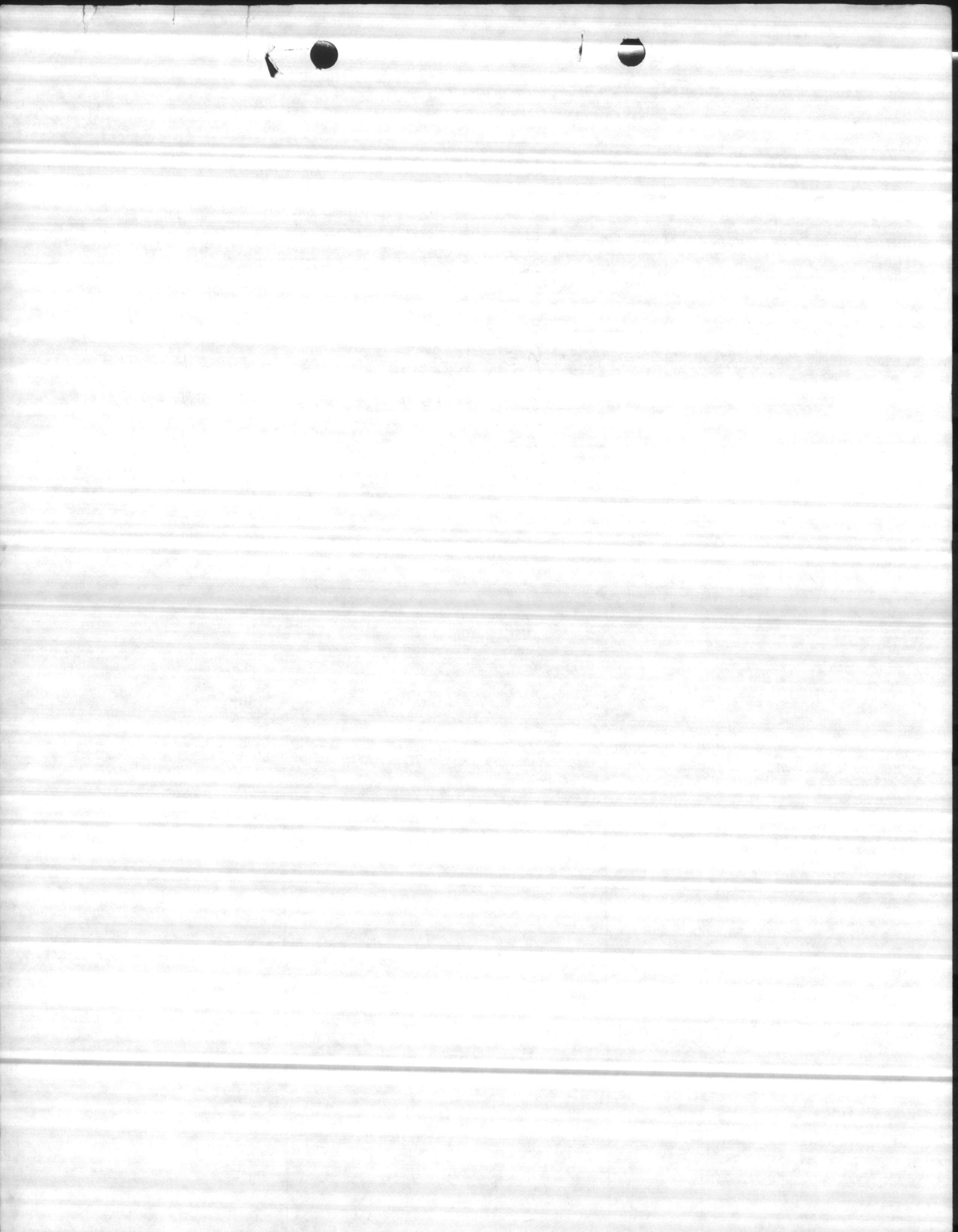
Is the water treated at this well? Y N If yes, complete back of form.

If other wells are treated here, which ones? If treated elsewhere, where? HP 20 PLANT

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



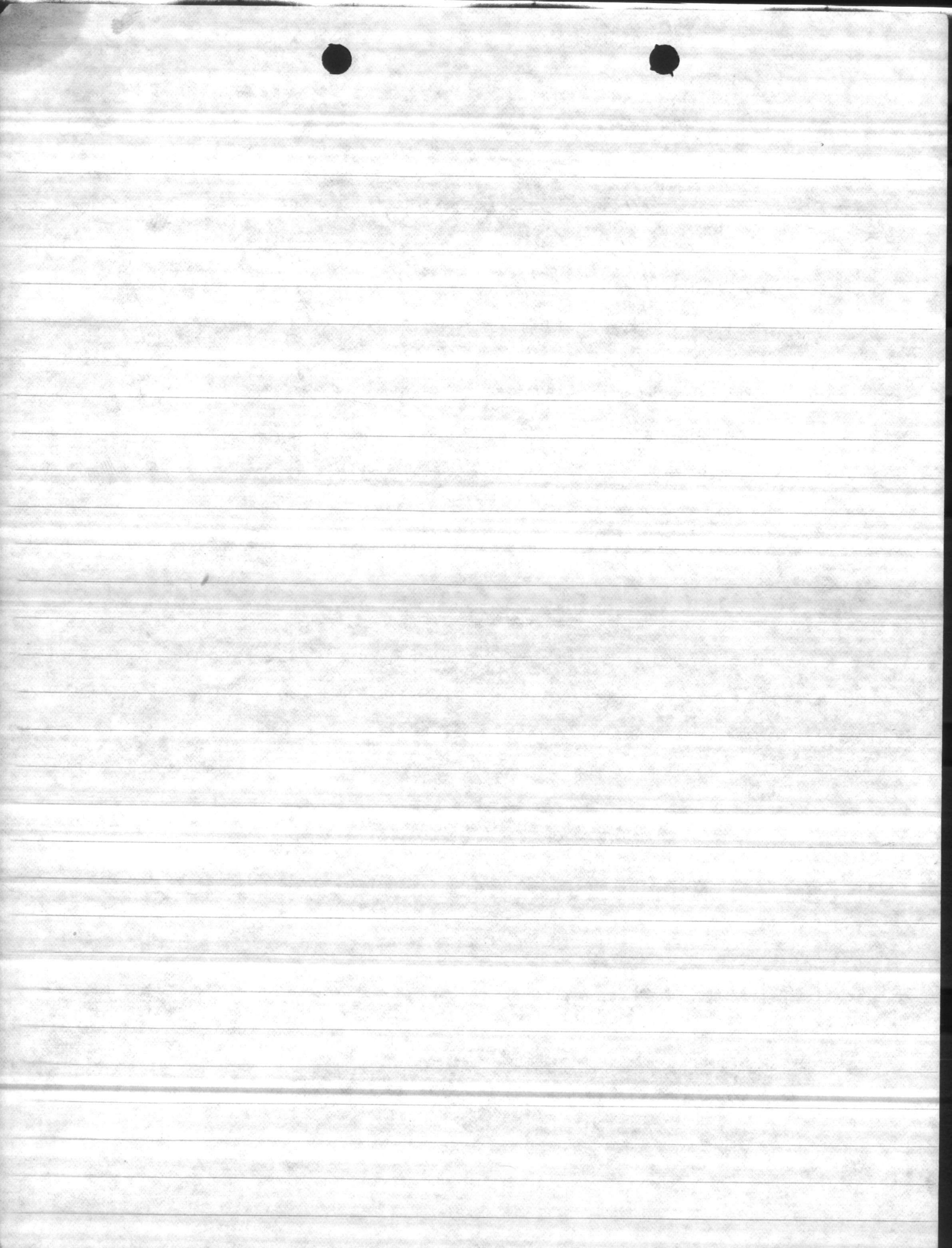


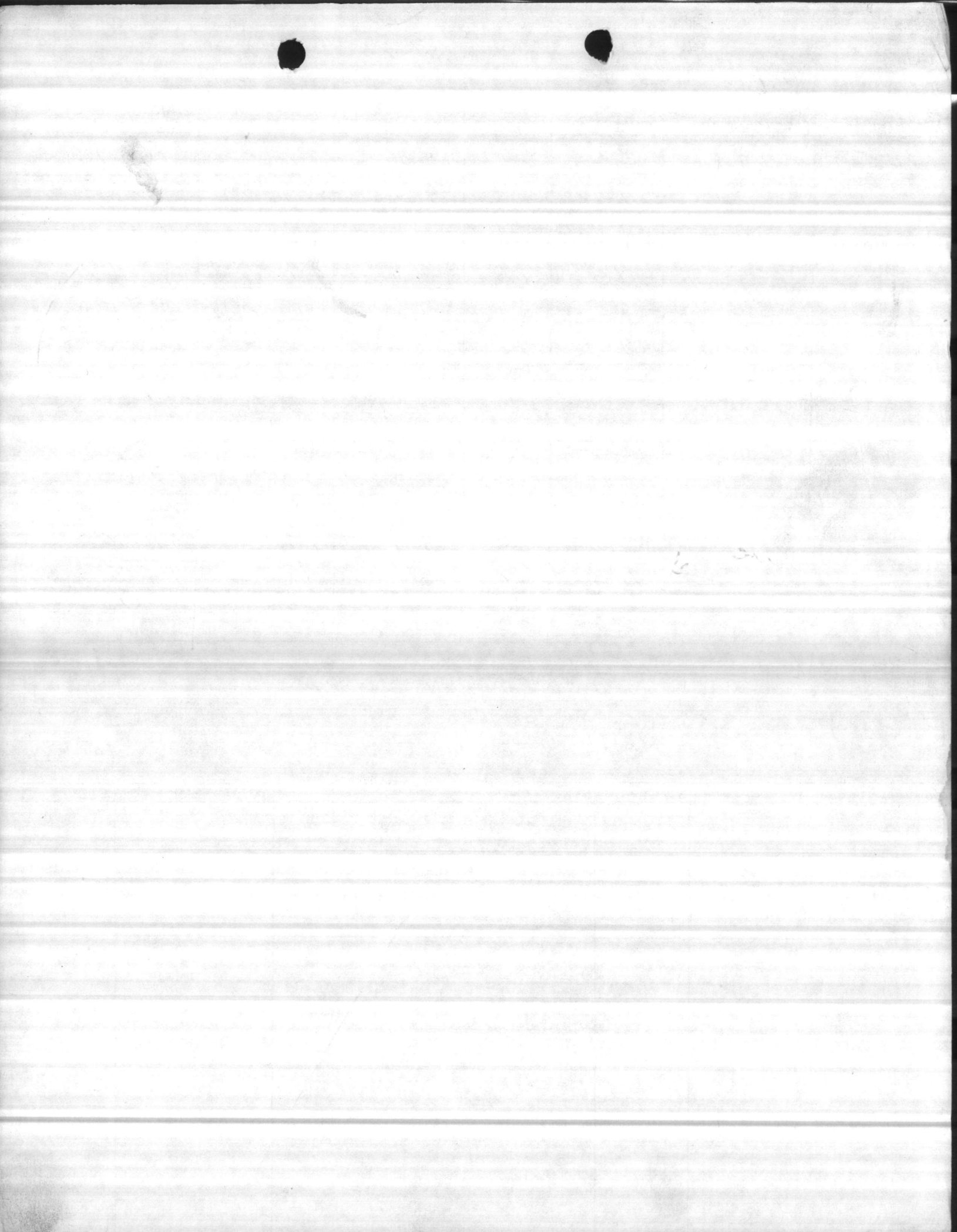


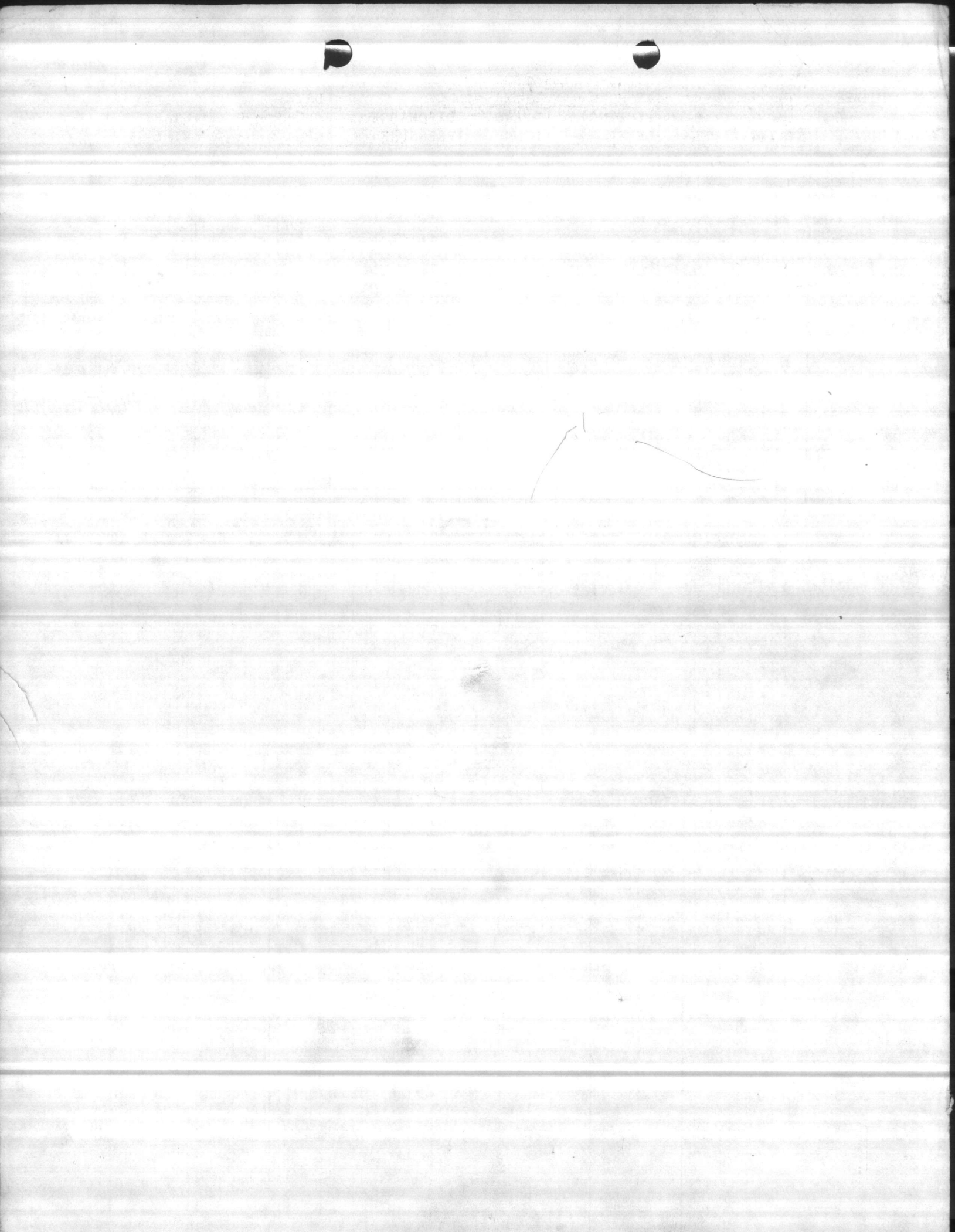
H0638

9-9-85

A/L	S/L	P/L	D/D	PSI	GPM	Time
125	27	65	38	43	104	15
		71	44	39	119	15
		78	51	33	130	15
		82	55	29	140	15
		87	60	25	151	15
		93	64	20	172	15
		98	71	15	183	15
		104	76	10	192	







638

Thomas + Raynor 4" pipe 3" orifice

DATE	LENGTH OF AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAW DOWN	DISCHARGE PRESSURE	CAP. PER FOOT OF PIPE GPM	TOTAL TIME
Feb, 5, 82	125'	19'	53'	34'	54 LB	100	955
			59'	40'	50 LB	115	1005
			63'	44'	47 LB	122	1015
			65'	46'	44 LB	128	1025
			67'	48'	41 LB	133	1035
			72'	53'	38 LB	140	1045
			75'	56'	35 LB	149	1055
			78'	59'	32 LB	157	1105
			81'	62'	29 LB	162	1115
			84'	65'	26 LB	170	1130
REMARKS:			88'	69'	23 LB	178	1140
			90'	71	20 LB	185	1150

pump setting 125'
pump 235 GPM at 0 pres

TYPE OF
PIPE
DIA
MATERIAL
NO
DATE

1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
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1992
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2019
2020
2021
2022
2023
2024
2025

1971 1972 1973 1974 1975
1976 1977 1978 1979 1980
1981 1982 1983 1984 1985
1986 1987 1988 1989 1990
1991 1992 1993 1994 1995
1996 1997 1998 1999 2000
2001 2002 2003 2004 2005
2006 2007 2008 2009 2010
2011 2012 2013 2014 2015
2016 2017 2018 2019 2020
2021 2022 2023 2024 2025

1971 1972 1973 1974 1975
1976 1977 1978 1979 1980
1981 1982 1983 1984 1985
1986 1987 1988 1989 1990
1991 1992 1993 1994 1995
1996 1997 1998 1999 2000
2001 2002 2003 2004 2005
2006 2007 2008 2009 2010
2011 2012 2013 2014 2015
2016 2017 2018 2019 2020
2021 2022 2023 2024 2025

WELL #
638

9, 10, 81
DATE

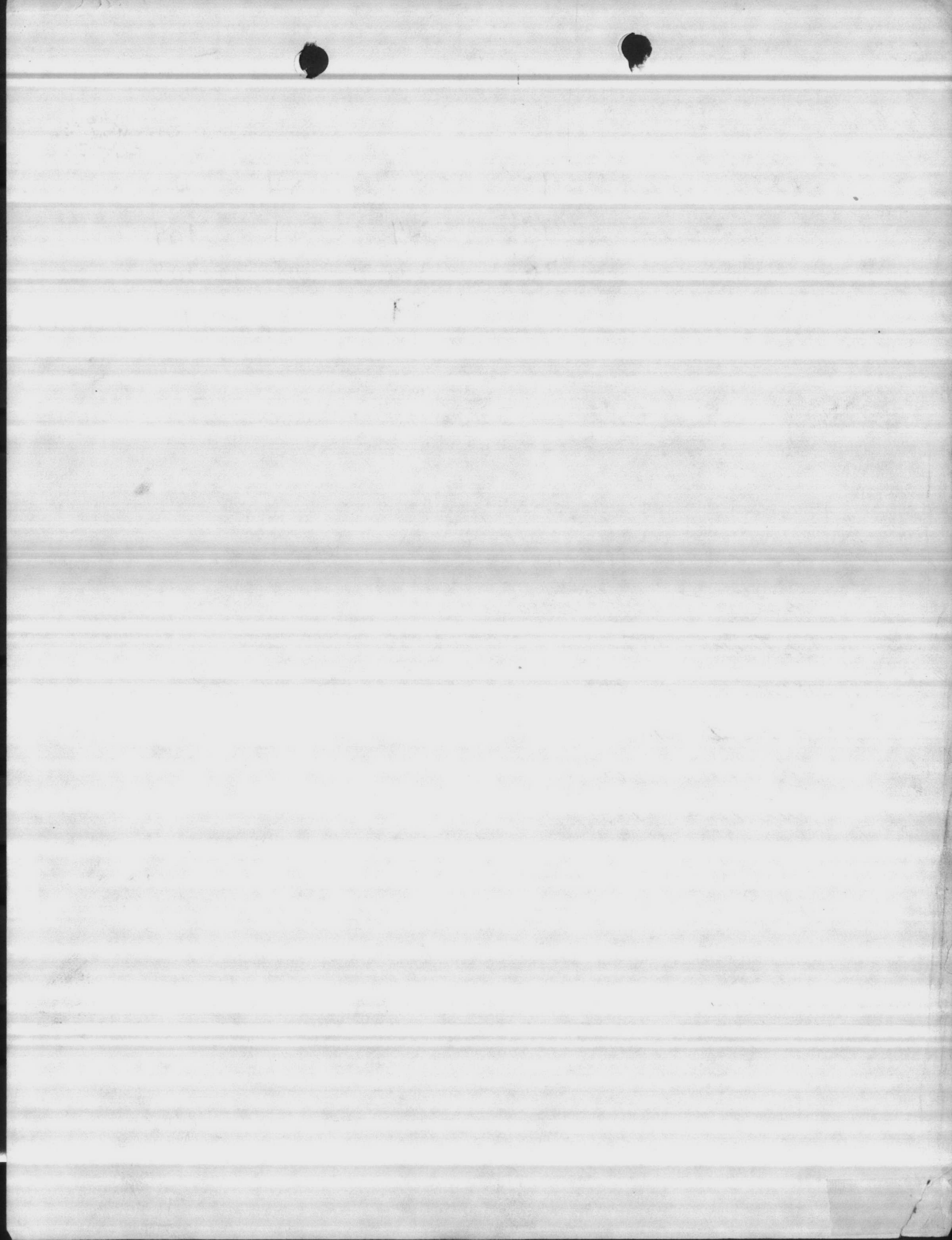
LENGTH OF AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAW DOWN	DISCHARGE PRESSURE	CAP. PER. GPM'S DRAW DOWN	TOTAL CAP.
--------------------	--------------	---------------	-----------	--------------------	---------------------------	------------

125'	52	75'	23'	24	4.5	
		76'	24'	21	104	
		78'	26'	18	108	
		81'	29'	15	115	

REMARKS:

set at 15 LB pressure
static 52'
pumping level 81'
draw down 29'
GPM's 115
air line 125'

DEPTH OF WELL:
AIRLINE ELEVATION: +
DATE
INSTALLED:



WELL #

638

LENGTH
OF
AIR LINE

STATIC
LEVEL

PUMPING
LEVEL

DRAW
DOWN

DISCHARGE
PRESSURE

CAP. PER
FOOT OF
DRAW DOWN

TOTAL
CAP.

DATE 18 June 81

125'

53

80

27'

28^{1/2}

104

82

29'

26^{1/2}

108

84

31'

24^{1/2}

111

87

34'

22^{1/2}

119

92

39'

16^{1/2}

128

94

41'

13^{1/2}

137

97

44'

10^{1/2}

146

103

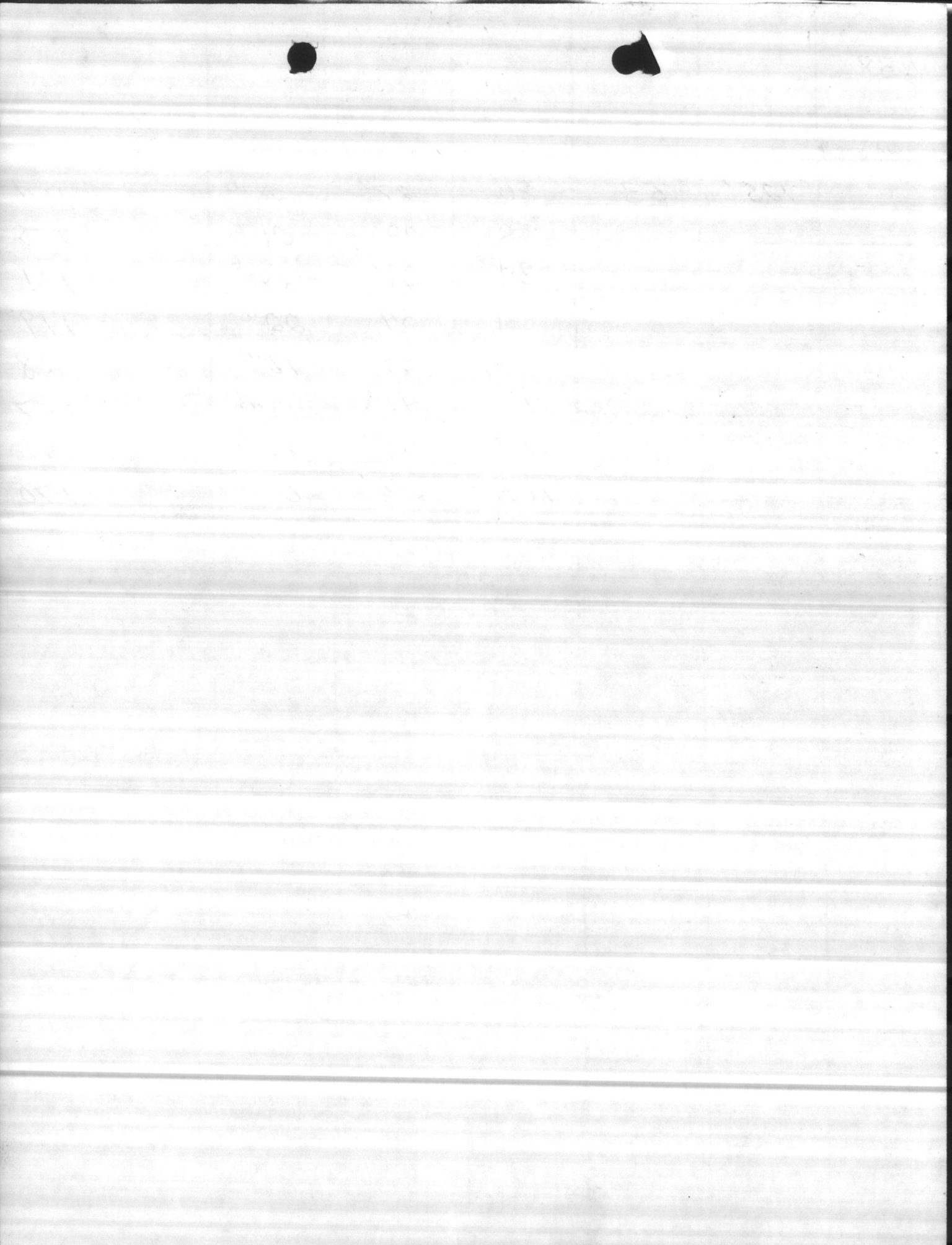
50'

0^{1/2}

170

REMARKS:

DEPTH OF
WELL:
AIRLINE
ELEVATION:
DATE
INSTALLED:



WELL #

638

LENGTH OF AIR LINE

STATIC LEVEL

PUMPING LEVEL

DRAW DOWN

DISCHARGE PRESSURE

CAP. PER FOOT OF DRAW DOWN

TOTAL CAP.

DATE

3/28/77

108

78

55

35

128

50

32

133

45

30

137

43

28

140

40

26

149

1-11-79

78'

70'

20

less than 100

67'

15

11

63'

10

100

59'

5

111

REMARKS:

READING NOT DIRECT

3-23-79 Replaced well

Pulled & repaired Pump

Depth 197'

Static 19'6"

Airline - 125 ft.

Direct Reading Gauge installed THIS DATE

DEPTH OF

WELL:

AIRLINE

ELEVATION:

DATE

INSTALLED:



11/11/11

11/11/11

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF WATER DATA COORDINATION
INVENTORY OF HYDROLOGIC DATA STATIONS
QUALITY OF WATER

APPROVED.
Budget Bureau No. 42-R1485
Approval Expires June 30, 1976

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE 34° 39' 10" N	4. LONGITUDE 77° 19' 45" W								
6. AGENCY STATION NO. HP-638		7. STATION NAME HP-20-638									
8. DRAINAGE BASIN CODE No. Letter 06 N		9. STATE CODE 32	10. COUNTY CODE 133								
		11. COUNTY NAME Onslow									
12. PERIOD OF RECORD Began 1969 Discontinued		13. <input type="checkbox"/> Continuous Interruption Exceeds 1 Year									
15. SITE											
<input type="checkbox"/> 101 Stream		<input type="checkbox"/> 104 Reservoir									
<input type="checkbox"/> 102 Canal		<input type="checkbox"/> 105 Estuarine zone									
<input type="checkbox"/> 103 Lake		<input type="checkbox"/> 106 Spring									
		<input checked="" type="checkbox"/> 107 Well									
		<input type="checkbox"/> 108 Drain									
		<input type="checkbox"/> 109 Other									
16. TYPES OF DATA AVAILABLE AND FREQUENCY OF MEASUREMENT (Enter appropriate number (1-8) beside each parameter to indicate frequency of measurement. For parameters telemetered, enter "T".)											
<table style="width:100%; border:none;"> <tr> <td>1 Continuous</td> <td>3 Daily</td> <td>5 Monthly</td> <td>7 Annual</td> </tr> <tr> <td>2 Seasonal</td> <td>4 Weekly</td> <td>6 Quarterly</td> <td>8 Other Periodic</td> </tr> </table>				1 Continuous	3 Daily	5 Monthly	7 Annual	2 Seasonal	4 Weekly	6 Quarterly	8 Other Periodic
1 Continuous	3 Daily	5 Monthly	7 Annual								
2 Seasonal	4 Weekly	6 Quarterly	8 Other Periodic								
<table style="width:100%; border:none;"> <tr> <td style="vertical-align: top;"> Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p_H (field) 317 <u>8</u> p_H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other </td> <td style="vertical-align: top;"> Chemical 331 ___ Dissolved solids 332 <u>8</u> Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 <u>8</u> Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.) </td> <td style="vertical-align: top;"> Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other </td> </tr> </table>				Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p _H (field) 317 <u>8</u> p _H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other	Chemical 331 ___ Dissolved solids 332 <u>8</u> Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 <u>8</u> Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.)	Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other					
Physical 311 ___ Temperature 312 ___ Specific conductance 313 ___ Turbidity 314 ___ Color 315 ___ Odor 316 ___ p _H (field) 317 <u>8</u> p _H (lab) 318 ___ Eh 319 ___ Suspended solids 320 ___ Other	Chemical 331 ___ Dissolved solids 332 <u>8</u> Chloride 333 ___ Nutrients (nitrogen) 334 ___ Nutrients (phosphorus) 335 ___ Common ions 336 <u>8</u> Hardness 337 ___ Radiochemical 338 ___ Dissolved oxygen 339 ___ Other gases 340 ___ Minor elements 341 ___ Pesticides (insecticides, herbicides, etc.) 342 ___ Detergents - MBS 343 ___ Biochemical oxygen demand 344 ___ Carbon (total, dissolved, etc.)	Biologic 361 ___ Coliforms 362 ___ Other micro-organisms (Benthic organism, phytoplankton, etc.) 363 ___ Other Sediment 371 ___ Concentration (suspended) 372 ___ Particle size (suspended) 373 ___ Particle size (bed load material) 374 ___ Other									
17. SUPPLEMENTARY DATA AVAILABLE FOR STATION											
<input type="checkbox"/> 421 Surface water station <input type="checkbox"/> 423 Water stage or level <input type="checkbox"/> 425 Time of travel <input type="checkbox"/> 422 Ground water station <input checked="" type="checkbox"/> 424 Water discharge <input type="checkbox"/> 426 Drainage area											
18. STORAGE OF DATA											
<input type="checkbox"/> 501 Published <input type="checkbox"/> 503 Data on punchcard <input type="checkbox"/> 505 Other <input checked="" type="checkbox"/> 502 Not published <input type="checkbox"/> 504 Data on magnetic tape, disc, data cell, etc.											
19. INQUIRIES ABOUT DATA SHOULD BE SENT TO:											
Office Base Maintenance Department, Utilities Division											
Street No. Marine Corps Base											
City, State, Zip Camp Lejeune, North Carolina 28540			City Code 0735								
20. DATA ARE AVAILABLE TO PUBLIC ON REQUEST <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											
21. OFFICE COMPLETING FORM BASE MAINTENANCE DEPARTMENT											
22. COMPILER'S NAME BOB WILSON			23. DATE Month 12 Year 1976								

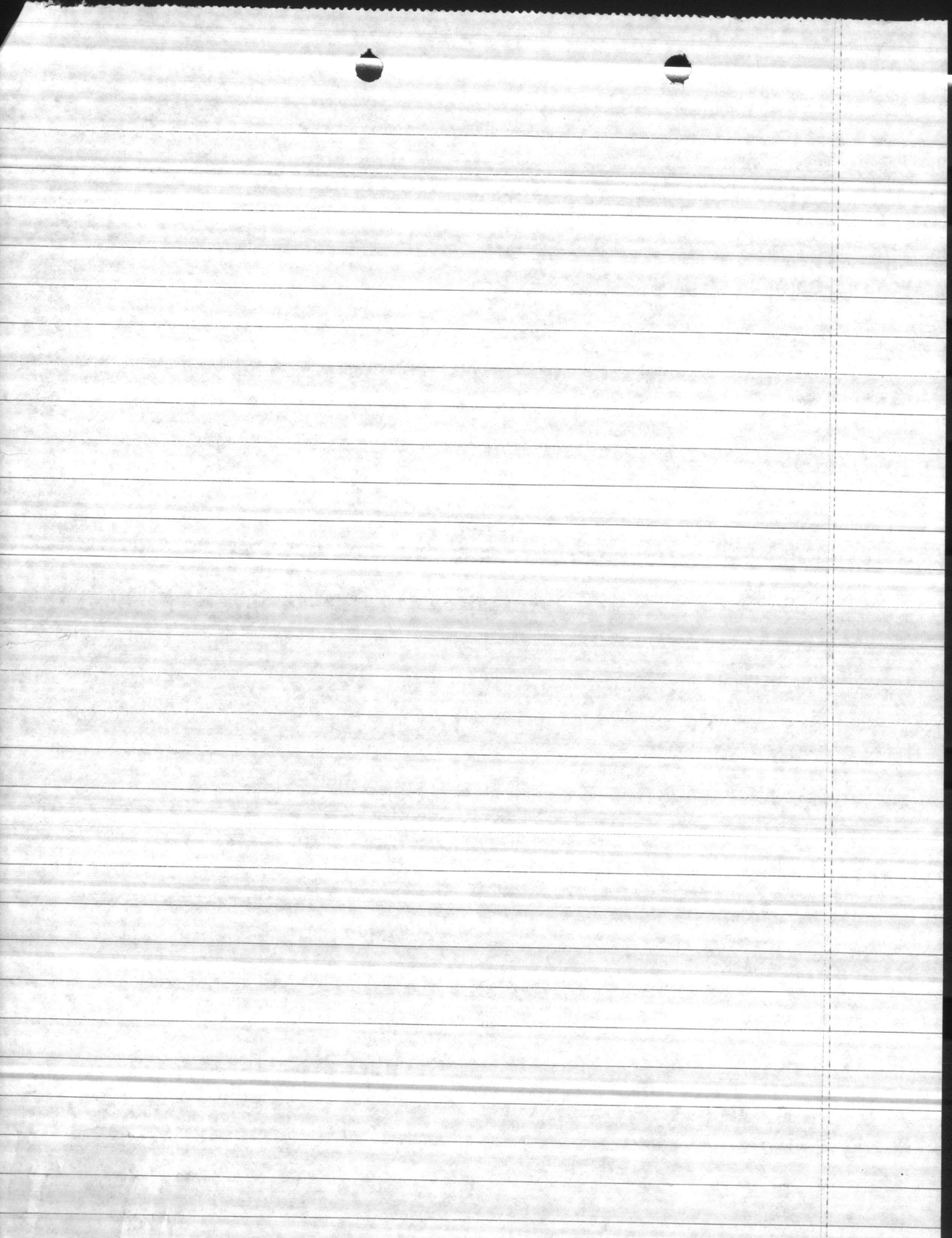


3/12/25

RW Taylor
Tide-water Supply Co
Wilmington, N.C.

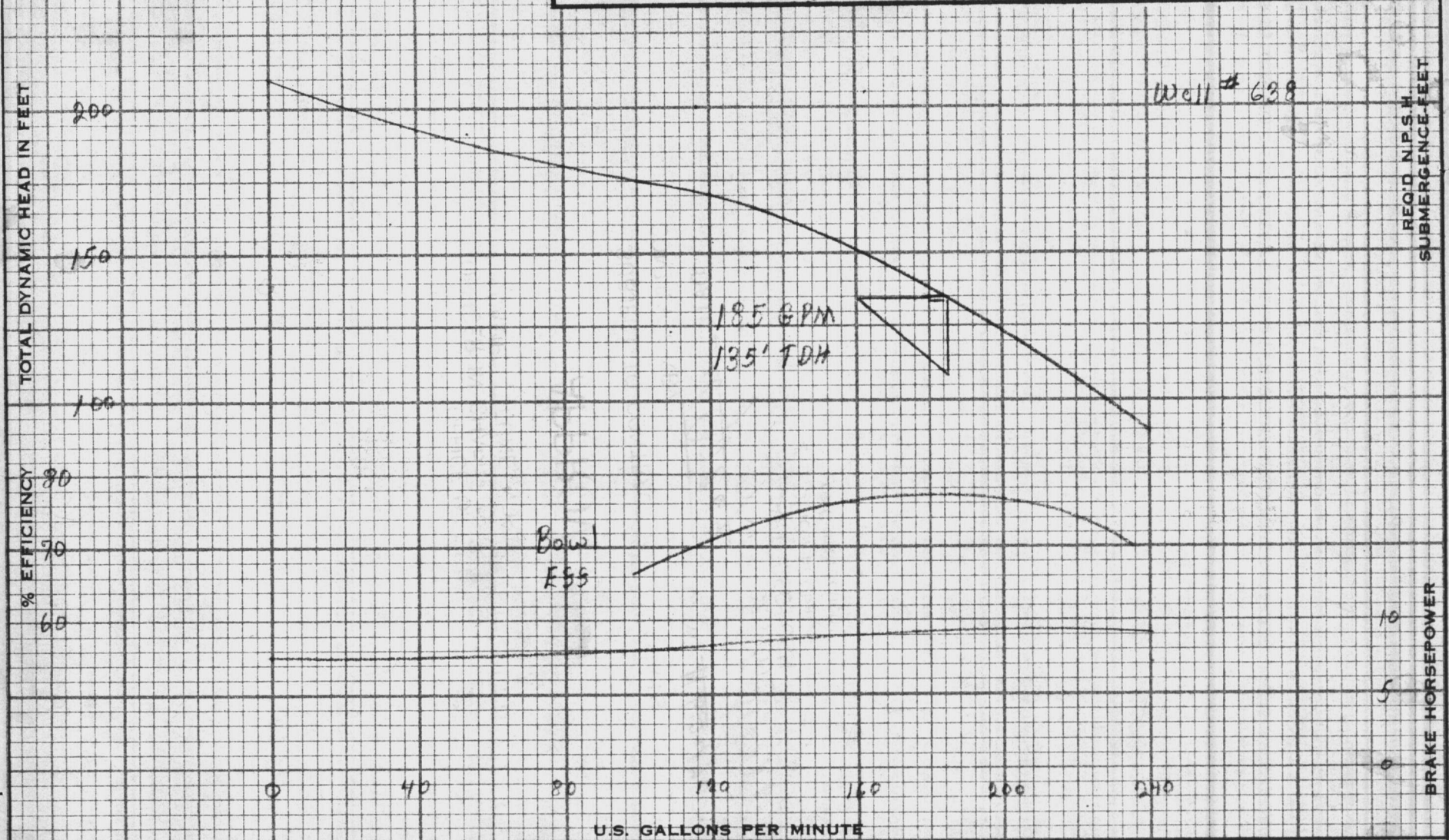
Has drawing of Auxillo Right
angle pump Drive JRL-20

and Johnson dug H-1868-A
of pump in well 638



NOTE: All COLUMN LOSSES ARE INCLUDED

JOHNSTON: REF. NO. 692-B-106N GB-1702
 DEALER: Hartsfeld Water Co REF. NO. _____
 CUSTOMER: Camp Lejeune, N.C. REF. NO. N62470-69-C-0792



THE CAPACITY, HEAD AND EFFICIENCY GUARANTEE IS FOR THE DESIGNATED POINT ONLY: IT IS BASED ON SHOP TESTS, WHEN HANDLING CLEAR, FRESH WATER AT A TEMPERATURE OF NOT OVER 85° F. AND UNDER SUCTION CONDITIONS AS SPECIFIED IN THE CONTRACT.

IMPELLER C.I.-Vit DIA. ES.
 BOWLS Cast Iron-Vit
 LIQUID Water
 SP. GR. 1.0
 DATE 6-30-69 BY WJD

JOHNSTON PUMP CO.

VERTICAL PUMPS

GLENDORA • CALIFORNIA • U. S. A.

Turbine PERFORMANCE
8 STAGE 7CC PUMP
1760 R.P.M.

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

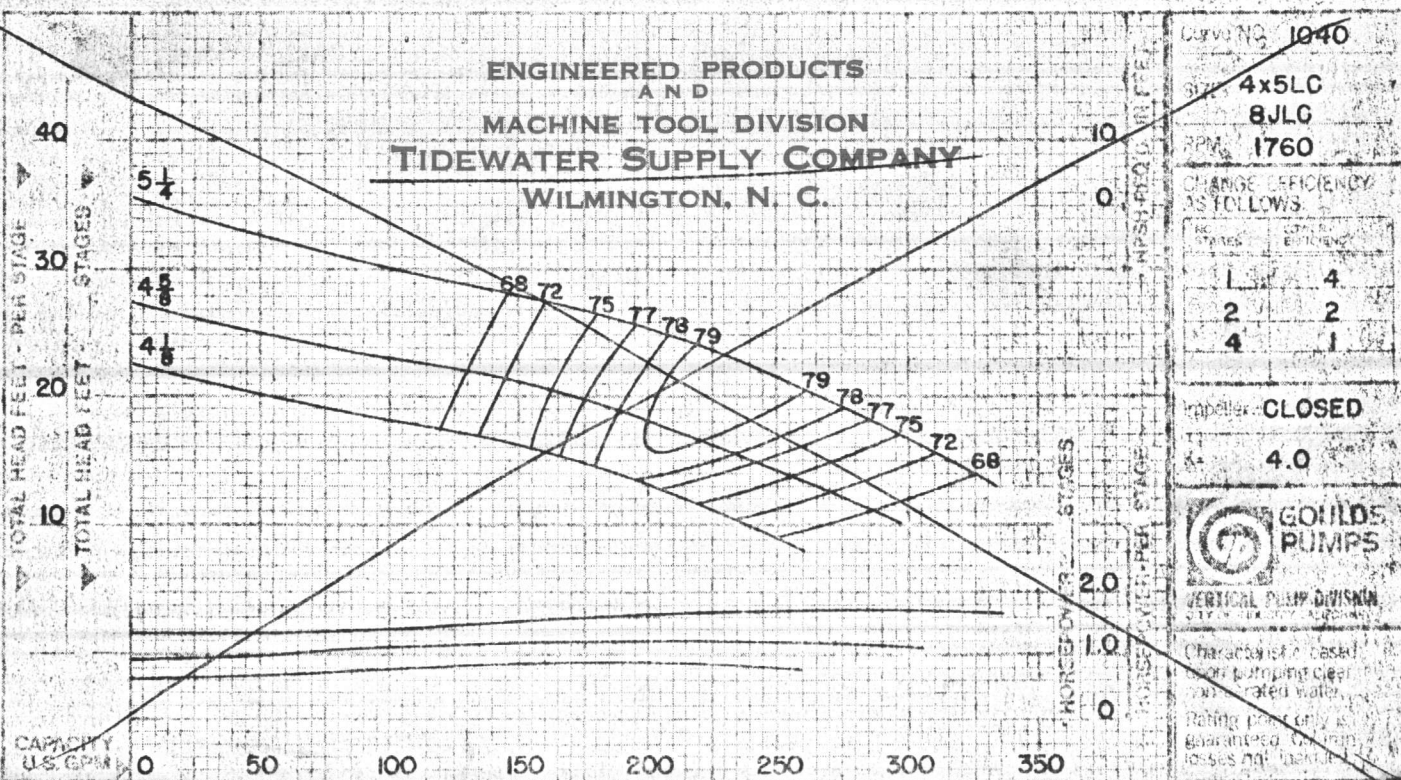
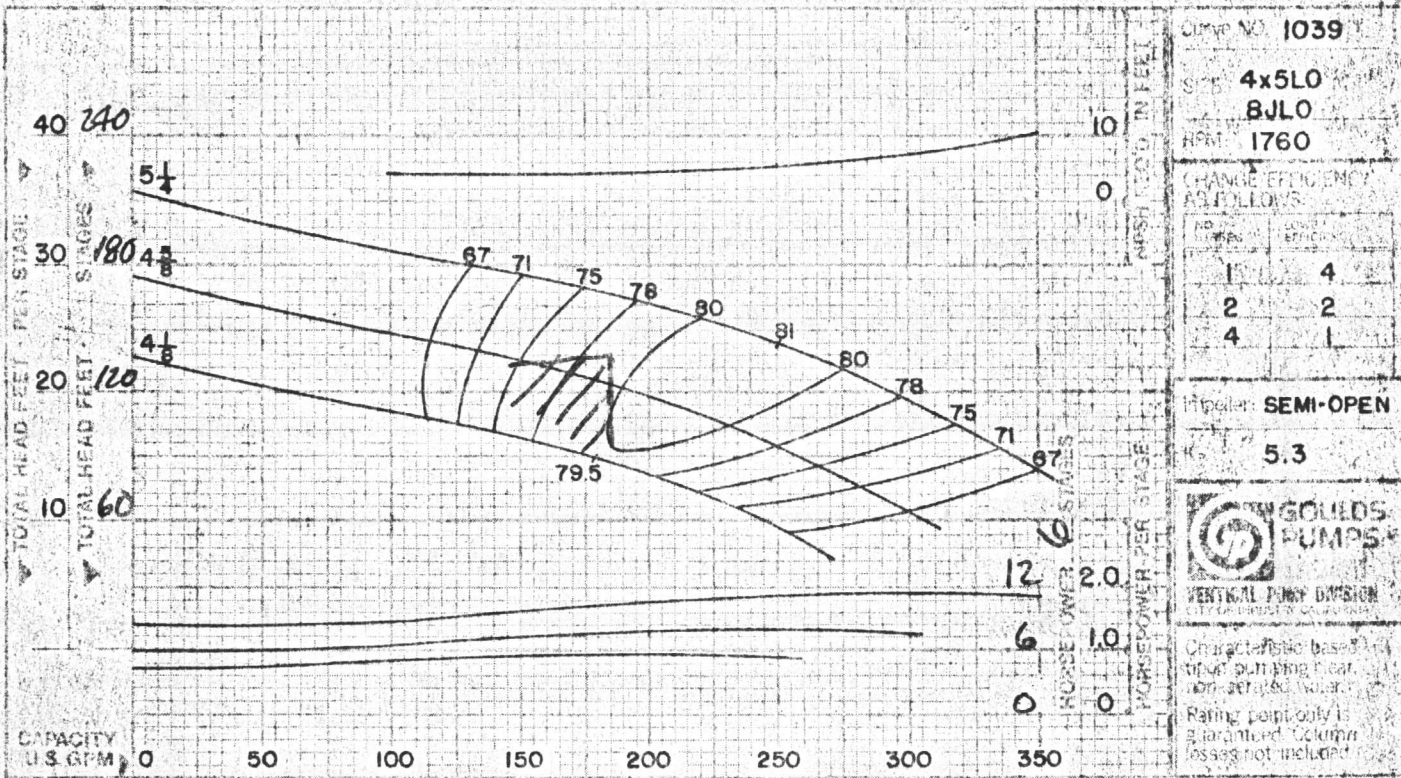
CONTRACT NBy _____

SPEC. NO. N 62470 - 69 - C - 0792

DATE: 10 Jul 69

JW
J. W. UPDEGROVE
CAPT. CEC, USN
Officer in Charge
of Construction

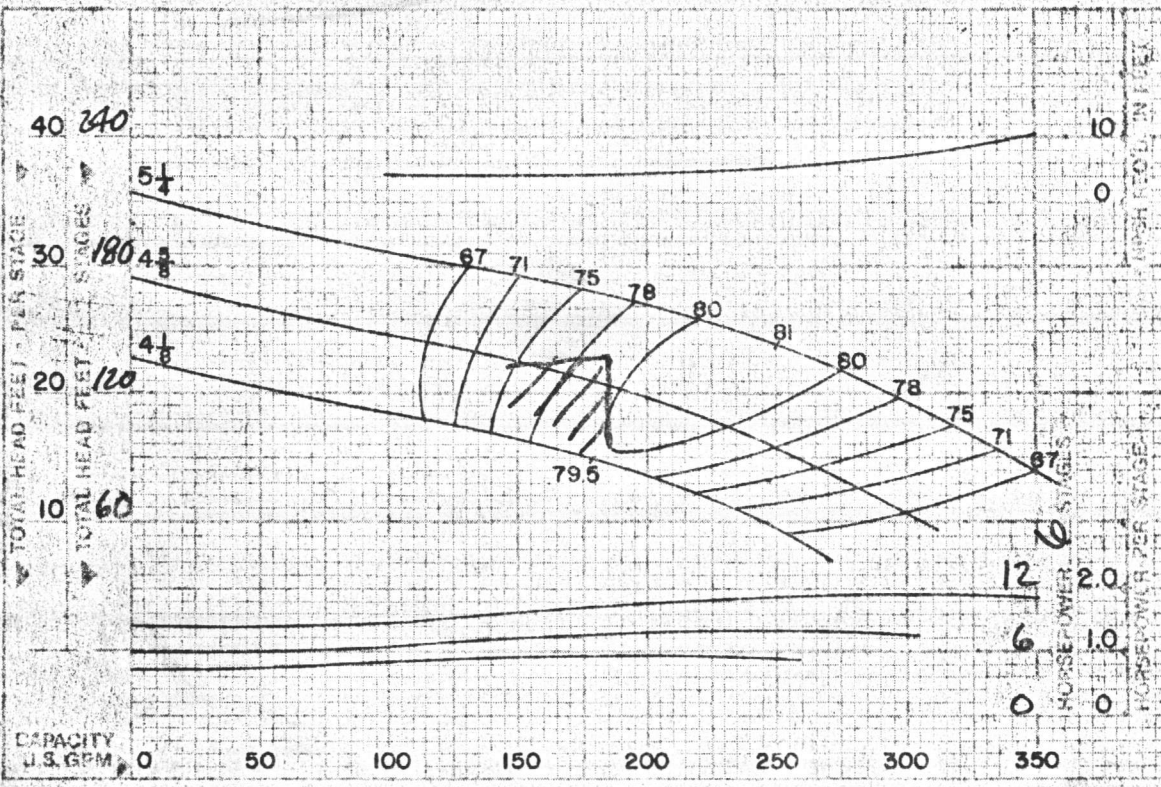
GOULDS MODEL NO.	QUANTITY NO.	CHANGE ORDER NO.	DATE ORDERED	WELL NO.	DATE
	302670	M67001-75-M-5383	2/6/75	WELL 638	5C17
CUSTOMER	U.S.M.C. CAMP LEJEUNE				
DATE	10/1/70				
SERVICE	WATER	GPM CAPACITY	185	HP/TONG	135
		EFFICIENCY	78%	RPM	1760
					(2/1/70)



ENGINEERED PRODUCTS
 AND
 MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
 WILMINGTON, N. C.

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
WILMINGTON, N. C.

32 U.S. BRUNNEN PUMPS	GOLDS NO. 302670	MODEL NO. M67001-75-M-5383	DATE 2/6/75	WELL 638	PAGE 5C17
CUSTOMER	U.S.M.C. CAMP LEJEUNE				
PROJECT					
DATE	10/1/70				
SERVICE	WATER	GPM CAPACITY 185	FL. TD. 135	EFFICIENCY 78%	RPM 1760
SL. LOSS	(2/1/70)				



Curve No. 1039

SIZE 4x5LO
8JLO
RPM 1760

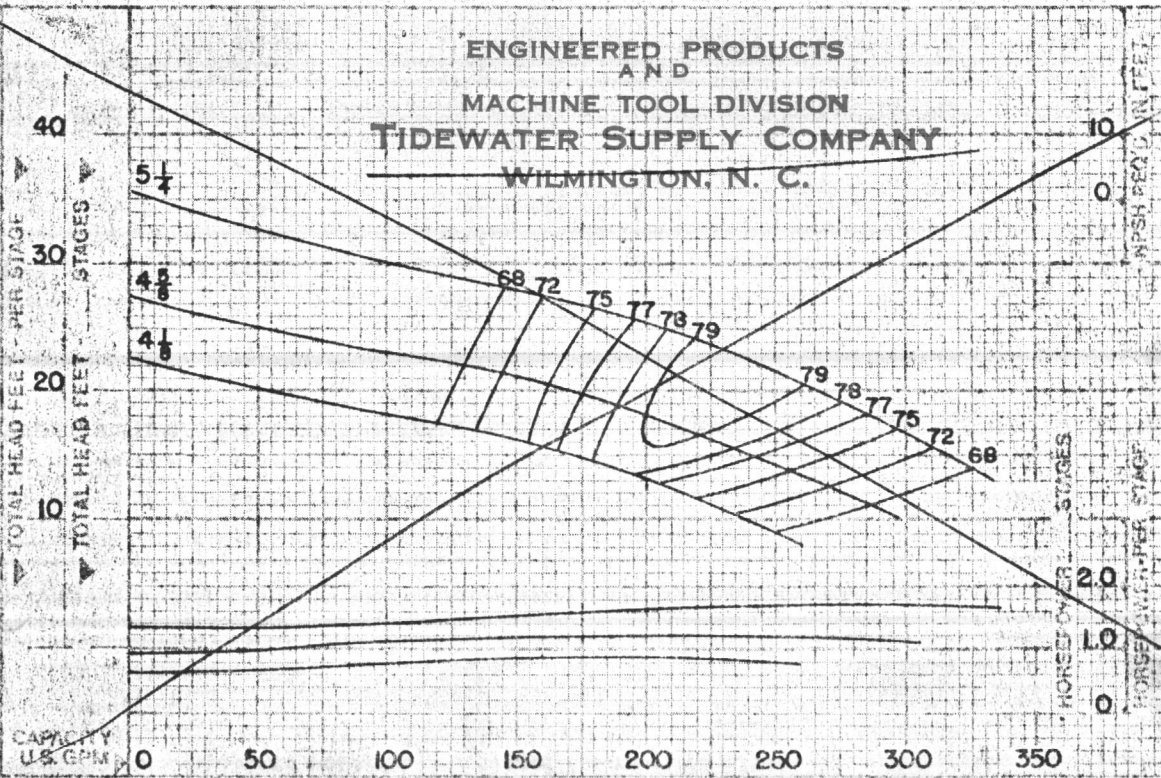
CHANGE EFFICIENCY AS FOLLOWS:

NO. STAGES	EFFICIENCY
1	4
2	2
4	1

Impeller: SEMI-OPEN
K = 5.3

GOLDS PUMPS
VERTICAL PUMP DIVISION
JULY OF REALTY, ALBANY, N.Y.

Characteristic based upon pumping clear non-aerated water.
Rating point only is guaranteed. Column losses not included.



Curve No. 1040

SIZE 4x5LC
8JLC
RPM 1760

CHANGE EFFICIENCY AS FOLLOWS:

NO. STAGES	EFFICIENCY
1	4
2	2
4	1

Impeller: CLOSED
K = 4.0

GOLDS PUMPS
VERTICAL PUMP DIVISION
JULY OF REALTY, ALBANY, N.Y.

Characteristic based upon pumping clear non-aerated water.
Rating point only is guaranteed. Column losses not included.

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
WILMINGTON, N. C.

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
WILMINGTON, N. C.

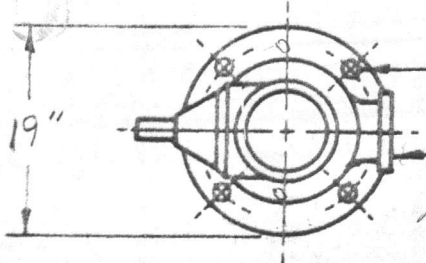
RETURN TO USMC

WATER PLANT

MR. W. R. PRICE



JOHNSTON VERTICAL TURBINE PUMP *Well No. 638*



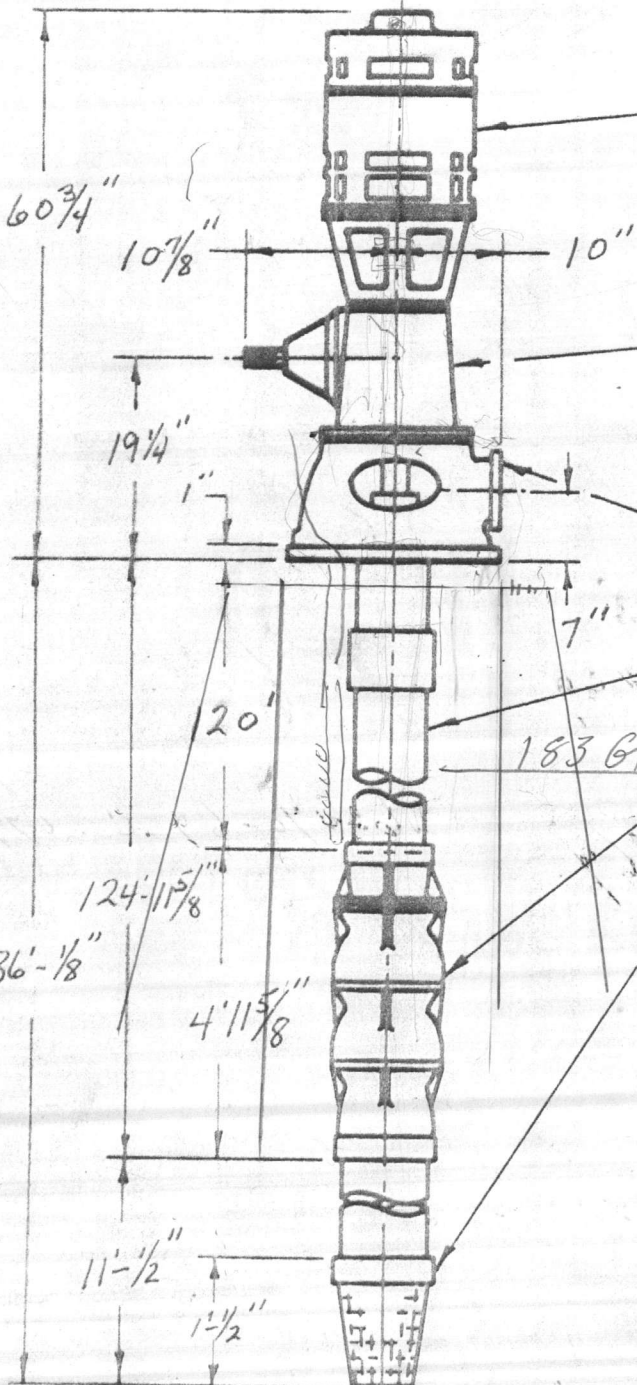
← $\frac{5}{8}$ " DIA. HOLES ON $1\frac{3}{4}$ " B.C.

5" x 125 ASA DISCHARGE FLANGE

$\frac{1}{2}$ " Min. Base plate

CONDITIONS:

U.S. GALLONS PER MINUTE—	185
TOTAL DYNAMIC HEAD IN FT.—	135
LIQUID—	WATER
SPEC. GRAV. 1.0 @	°F. TEMP.



$60\frac{3}{4}$ "

$10\frac{7}{8}$ "

10"

$19\frac{1}{4}$ "

1"

7"

20"

$124\frac{11}{8}$ "

$136\frac{1}{8}$ "

$4\frac{11}{8}$ "

$11\frac{1}{2}$ "

$1\frac{1}{2}$ "

G.E.
VERTICAL HOLLOW SHAFT MOTOR
HP—10 PHASE—3 CYCLE—60
VOLTAGE—208 RPM—1760
ENCLOSURE—W.P.I.

AMARILLO RIGHT ANGLE COMBINATION
GEAR DRIVE MODEL—JRI-20 RATIO—1:1
DRIVER RPM—1760 PUMP RPM—1760
SHAFT DIA.— $\frac{1}{4}$ " KEYWAY $\frac{5}{16}$ "
(GEAR MAY BE ROTATED 90°)

TYPE "A" DISCHARGE HEAD—10 x 6

COLUMN ASSEMBLY—5 X 2 X $1\frac{3}{16}$ "

Col. To BE G.W.I.
BOWL ASSEMBLY—8 STAGE TCC
183 GPM @ -75.5 D.D.ELEV.
SUCTION PIPE & CONE STRAINER—5"

CUSTOMER CAMP LEJEUNE N.C.
PO# N62470-69-C-0792
DEALER HARTSEIEN WATER CO.
PO#

JOHNSTON SERIAL NO. GB1702
JOHNSTON QUOTATION NO. 888-B-106N

WELL #638

NOTE: DO NOT USE FOR CONSTRUCTION
UNLESS CERTIFIED

well 638

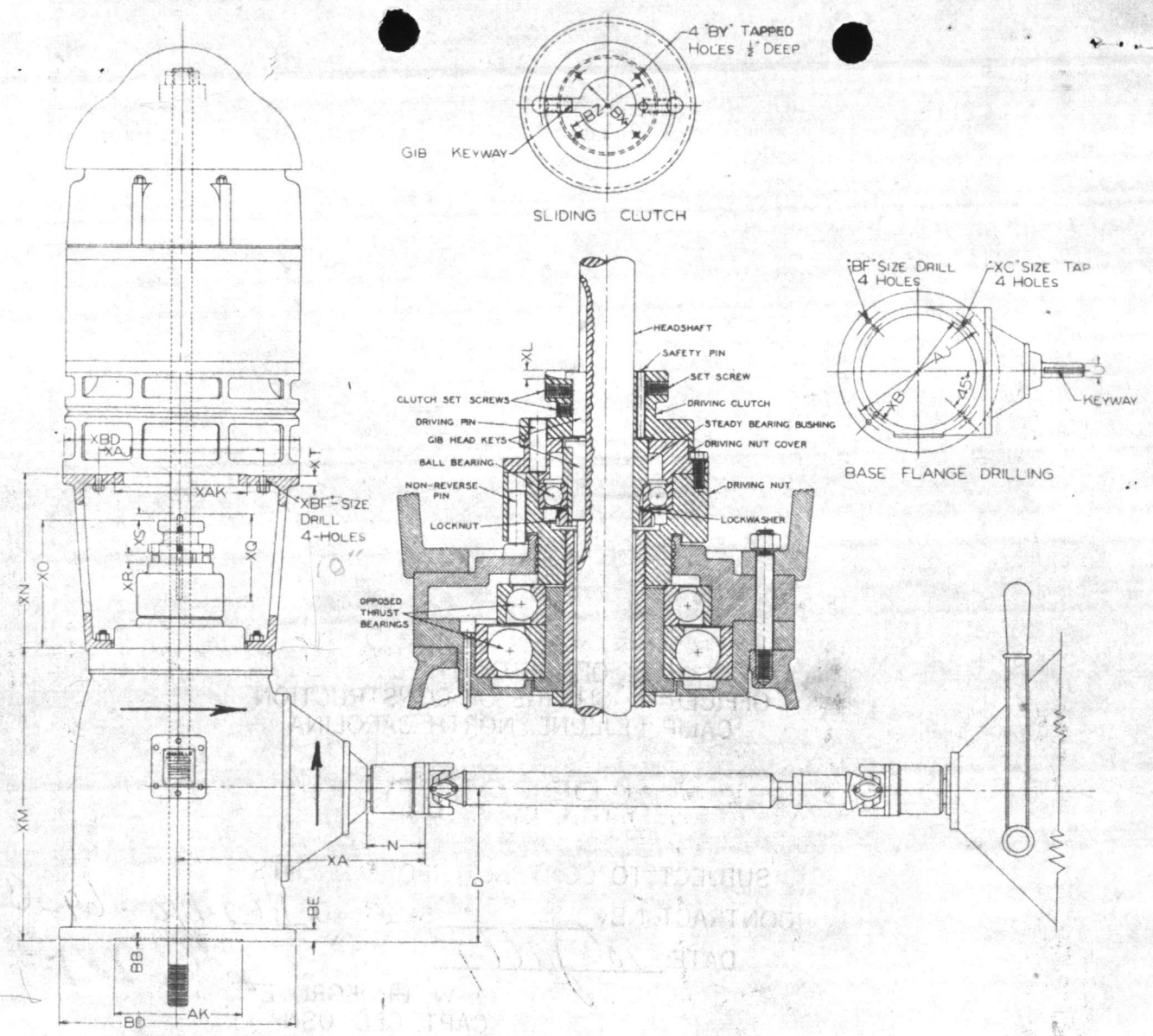
AMARILLO RIGHT ANGLE PUMP DRIVE

DIMENSION PRINT OF COMBINATION DRIVE
MANUAL OPERATION—SLIDING CLUTCH

Drive No. JRL-20 Ratio 1:1
 Flexible Drive Shaft No. _____ Length _____
 Drive Flange Bored _____ Keyway _____
 Engine Flange Bored _____ Keyway _____
 Customer JOHNSTON PUMP COMPANY
 Customer's Order No. _____
 Date 2-18-69 Drive Serial No. _____

AMARILLO GEAR COMPANY
AMARILLO, TEXAS

By: A. M. Cain
 FOR: QUOTE # 688-B-106N



MODEL	D	N	HORIZONTAL SHAFT U			AJ	AK*	BB	BD	BE	BF	XA	XB	XC	XL	XM	XN	XO	XQ	XR	XS	XT	XAJ	XAK	XBD	XBF
			NOM-INAL	ACTUAL	KEYWAY																					
JRL-20	6 3/4	2 5/8	1 1/4	1.249	5/16 X 3/32	9 1/8	8.250	3/16	10	5/8	7/16	10 7/8			9/32	12 1/4	12 1/2	5 1/2	5 1/4	1/2	1 1/2	7/16	9 1/8	8 7/8	10	7/16
OL	8 1/2	4 1/4	1 1/2	1.499	3/8 X 3/16	14 3/4	13.500	1/4	16 1/2	3/4	11/16	15 5/8			9/32	15 7/16	16	6 1/2	7	5/8	2	5/8				
OL-40	8 1/2	4 3/8	1 1/2	1.499	3/8 X 3/16			1/4		13/16		15 5/8			9/32	16 3/16	16	6 1/2	7	5/8	2	5/8				
IBL	11 1/2	4 1/4	1 1/2	1.499	3/8 X 3/16	14 3/4	13.500	1/4	16 1/2	7/8	11/16	16 3/4			9/32	20 3/8	18	7 13/16	7 3/4	3/4	2 1/4	3/4				
2BL	11 1/2	4 1/4	1 7/8	1.874	3/8 X 3/16	14 3/4	13.500	1/4	16 1/2	7/8	11/16	16 3/4			9/32	19 3/4	18	8 3/8	7 3/4	3/4	2 1/4	3/4				
2BL-90	11 1/2	4 1/4	1 7/8	1.874	3/8 X 3/16	14 3/4	13.500	1/4	16 1/2	7/8	11/16	16 3/4			9/32	19 3/4	18	8 3/8	7 3/4	3/4	2 1/4	3/4				
3BC	13 3/4	5 1/4	2 7/16	2.436	5/8 X 5/16	18 1/4	13.500	1/4	20	1 1/8	11/16	20 3/4	14 3/4	5 11-NC	9/32	25	20	9 3/8	10	7/8	2 3/4	7/8				
4BC	13 3/4	5 1/4	2 7/16	2.436	5/8 X 5/16	18 1/4	13.500	1/4	20	1 1/8	11/16	20 3/4	14 3/4	5 11-NC	9/32	25	20	9 3/8	10	7/8	2 3/4	7/8				
4BC-200	13 3/4	5 1/4	2 7/16	2.436	5/8 X 5/16	18 1/4	13.500	1/4	20	1 1/8	11/16	20 3/4	14 3/4	5 11-NC	9/32	26 7/8	20	9 3/8	10	7/8	2 3/4	7/8				
6BL	16	6	2 15/16	2.936	3/4 X 3/8	23	13.500	1/4	24 1/2	1 1/8	13/16		14 3/4	5 11-NC	9/32	30 3/4	27	12 1/2	11 1/2	1 1/8	3 1/2	1				
6BL-350	16	6	2 15/16	2.936	3/4 X 3/8	23	13.500	1/4	24 1/2	1 1/8	13/16		14 3/4	5 11-NC	9/32		27	12 3/8	11 1/2	1 1/8	3 1/2	1				
6BL-425	16	6				23	13.500	1/4	24 1/2	1 1/8	13/16		14 3/4	5 11-NC	9/32		27	12 3/8	11 1/2	1 1/8	3 1/2	1				
6BC-500	18	6	3 3/4	3.749	7/8 X 7/16	23	13.500	1/4	24 1/2	1 1/8	13/16	26 3/4	14 3/4	5 11-NC	9/32											
7BL	21	8	4	3.998	1 X 1/2	28 3/4	22.000	1/4	30 1/2	1 1/4	13/16	36 7/8	26 3/4	10-NC	7/16	42	30	16 1/4	15	1 3/16	4	1 1/4				

COUPLING DIMENSIONS

BX	BORE		GIB KEYWAY	BY	BZ
	NOM-INAL	ACTUAL			
3/4		.751	3/16 X 3/32	10-32	1 3/8
7/8		.876	1/4 X 1/8	10-32	1 3/8
1		1.001	1/4 X 1/8	10-32	1 3/8
1 3/16		1.188	1/4 X 1/8	1/4 - 20	1 3/4
1 1/4		1.251	1/4 X 1/8	1/4 - 20	1 3/4
1 7/16		1.438	3/8 X 3/16	1/4 - 20	2 1/8
1 1/2		1.501	3/8 X 3/16	1/4 - 20	2 1/8
1 11/16		1.688	3/8 X 3/16	1/4 - 20	2 1/2
1 3/4		1.751	3/8 X 3/16	1/4 - 20	2 1/2
1 15/16		1.938	1/2 X 1/4	1/4 - 20	2 1/2
2 3/16		2.188	1/2 X 1/4	3/8 - 16	3 1/4
2 7/16		2.438	5/8 X 5/16	3/8 - 16	3 1/4
2 11/16		2.688	5/8 X 5/16	3/8 - 16	3 3/4

*Tolerance on AK dimension + .003 inch, - .000 inch for 8.250 dimension and + .005 inch, - .000 inch for 13.500 and 22.000 inch Dimension.
 †Tolerances on BX dimension: up to and including 1 1/2 inch diameter, + 0.001, - 0.000 inch; larger than 1 1/2 inch diameter, + 0.0015, - 0.000 inch.

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

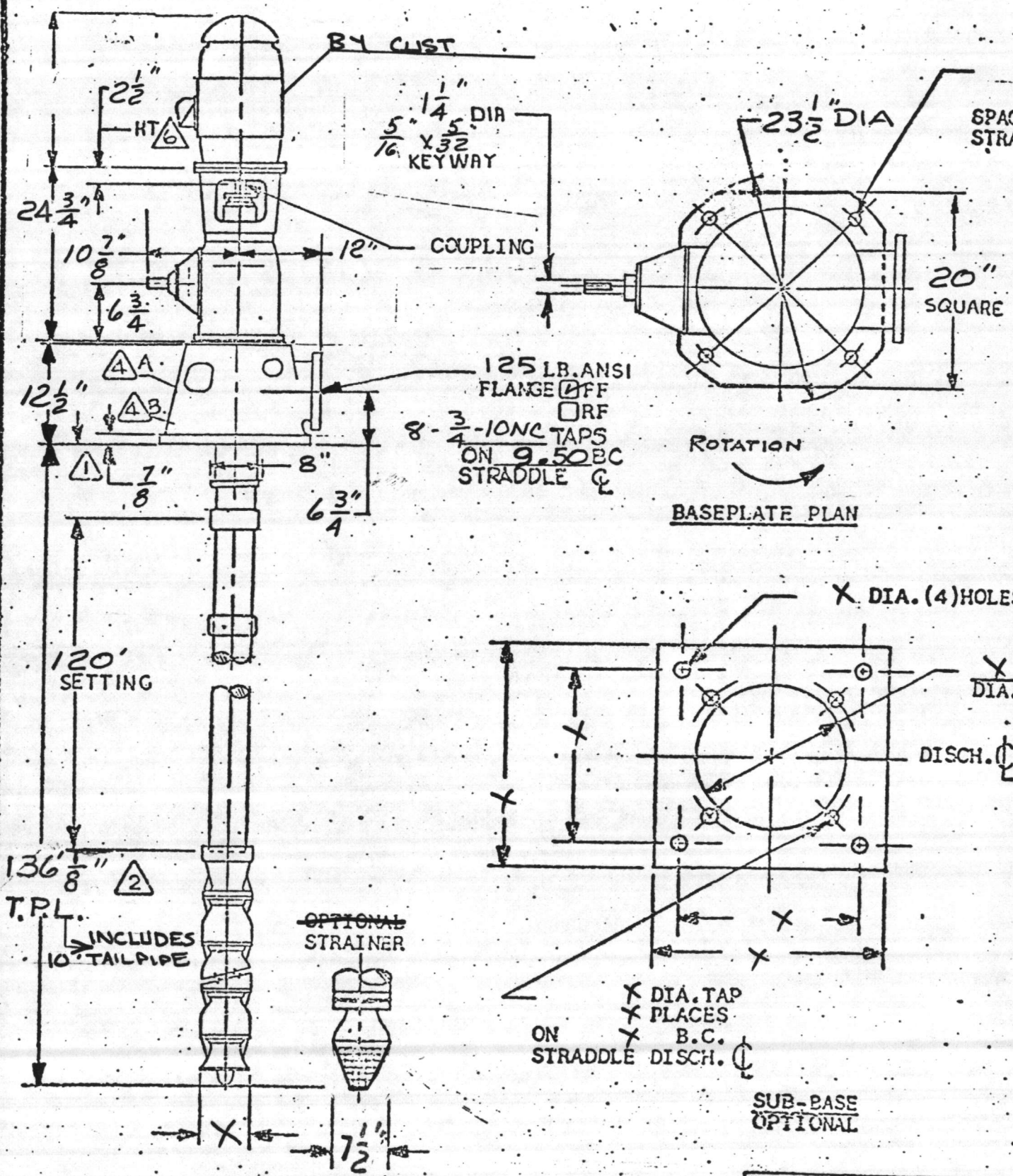
SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBy _____ SPEC. NO. N62470-69-C-0792

DATE: 10 July 69

J. W. UPDEGROVE
CAPT. CEC, USN
Officer in Charge
of Construction

J.W.U.



3/4" DIA. HOLES EQUALLY SPACED 21.25 B.C. STRADDLE DISCH.

CUSTOMER UNITED STATES MARINE CORP.

P.O. M 67001-TS-M-5383

ITEM WELL NO 638

NO. OF UNITS 1

PUMP SIZE 8J LQ NO. STAGES 6

GPM 185 T.D.H. 135 FT.

LIQUID WATER

SEP. GR. 1.0 TEMP. 70°F VISC. -

COLUMN 5"

TUBE -

SHAFT 1.0"

MAX. BRG. CENTERS 10'

SEAL PACKING BOX

COUPLING NONE SPACER LTH.

DRIVER MFG. AMARILLO BY CUST.

H.P. 10 RPM 1760 VSS VHS

PH. 3 CY 60 VOLTS 208

THRUST

ENCLOSURE

FRAME JRL-20

WEIGHT: PUMP 3000 LBS

DRIVER - LBS

IMPELLER DIA: 15 x NO U.F.

NO.	NOTES
1	ADJUSTABLE NIPPLE
2	T.P.L. - TOTAL PUMP LENGTH IS THE DISTANCE TO LOWEST PROJECTION ON PUMP AND INCLUDES OPTIONAL STRAINERS WHEN SPECIFIED.
3	DRIVER MAY BE ROTATED AT 90 INTERVALS ABOUT VERTICAL CENTERLINE. FOR DETAILS REFER TO DRIVER DIMENSION DRAWINGS.
4	A. 1/2 NPT PRELUDE TAP (PRODUCT LUBE ONLY.) B. SOUND TAP & SEALING ELEMENT DRAIN

ENGINEERED PRODUCTS AND MACHINE TOOL DIVISION. TIDEWATER SUPPLY COMPANY. WILMINGTON, N. C.

LET	REVISION	BY	DATE
A	REVISED PER CUST. REQ.	TS	8/1/75

TITLE	OUTLINE-MODEL - DWT.
FORM NO.	DM-3137
DRAWING NUMBER	302670

MINIMUM DIAMETER RECOMMEND TO CLEAR PUMP AND COLUMN ASS'Y IS 9"

DRAWN BY	DATE	CHECKED	DATE
J. ROSE	7 MAY 75	BTG	5-7-75
DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED			
CERTIFIED BY	DATE		
J. ROSE	5-7-75		


GOULDS PUMPS
 VERTICAL PUMP DIVISION
 INDUSTRY, CALIFORNIA

ENGINEERED PRODUCTS
MACHINE TOOL
TIDEWATER SUPPLY COMPANY
WILMINGTON, DE

DATE ISSUED 5/14/71		REVISION	
DISTRIBUTION			
PROD.		ORDER	
ACCT.			

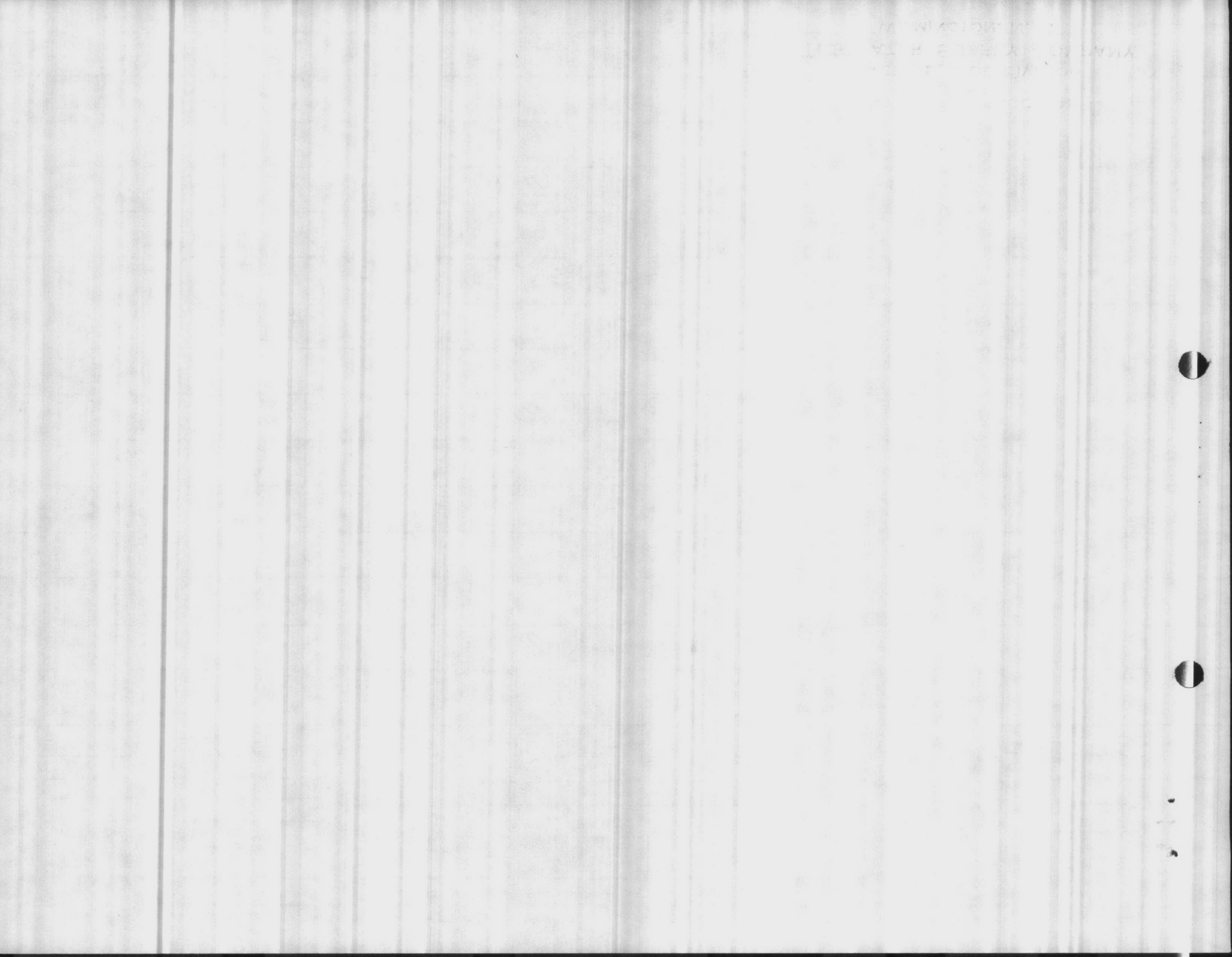
BILL OF MATERIAL	
8JO BOLTED BOWL ASSEMBLY	
AGR. - W/L	

DATE 6 MAY 1975
BY J. Rose

NO. OF UNITS 1
CUSTOMER UNITED STATES MARINE CORP. 
CUSTOMER P.O. M67004 75-5383 ITEM Well N° 638 S.O. 302670

line #	qty pump	qty cr.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LINE	COL
1	1	1	SUCTION BOWL 5" NPT	688 1003			L-143	B-2772		
2										
3										
4	1	1	SUCTION BUSHING	1104				IE-279		
5	1	1	SAND COLLAR	692 1102			IE-281	IE-281		
6	1	1	TOP INT. BOWL	669 1003	IC		U-124	B-2777		
7	5	5	INT. BOWL	670 1003	IC		U-125	B-2780		
8	6	6	FLEETWOOD F8J11 INT. BOWL BUSHING	672				A7391	6	
9	6	6	IMPELLER (L) $4 \frac{15}{16}$ D.X NO U.F.	1102	4H		S-183	A-8154		
10										
11	6	6	TAPER LOCK	677 2242				IE-331		
12										
13										
14										

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
WILMINGTON, N. C.



WILSON

LINE A1 COLUMN DWG.

SHEET 2 OF 2
B/M NO. _____

2180

DATE 6 MAY 75
BY J. ROSE

DATE ISSUED 5/2/72		REVISION 1	
DISTRIBUTION			
PROD.		ORDER	
ACCT.			

BILL OF MATERIAL
8JO BOLTED BOWL ASSEMBLY
AGR. - W/L

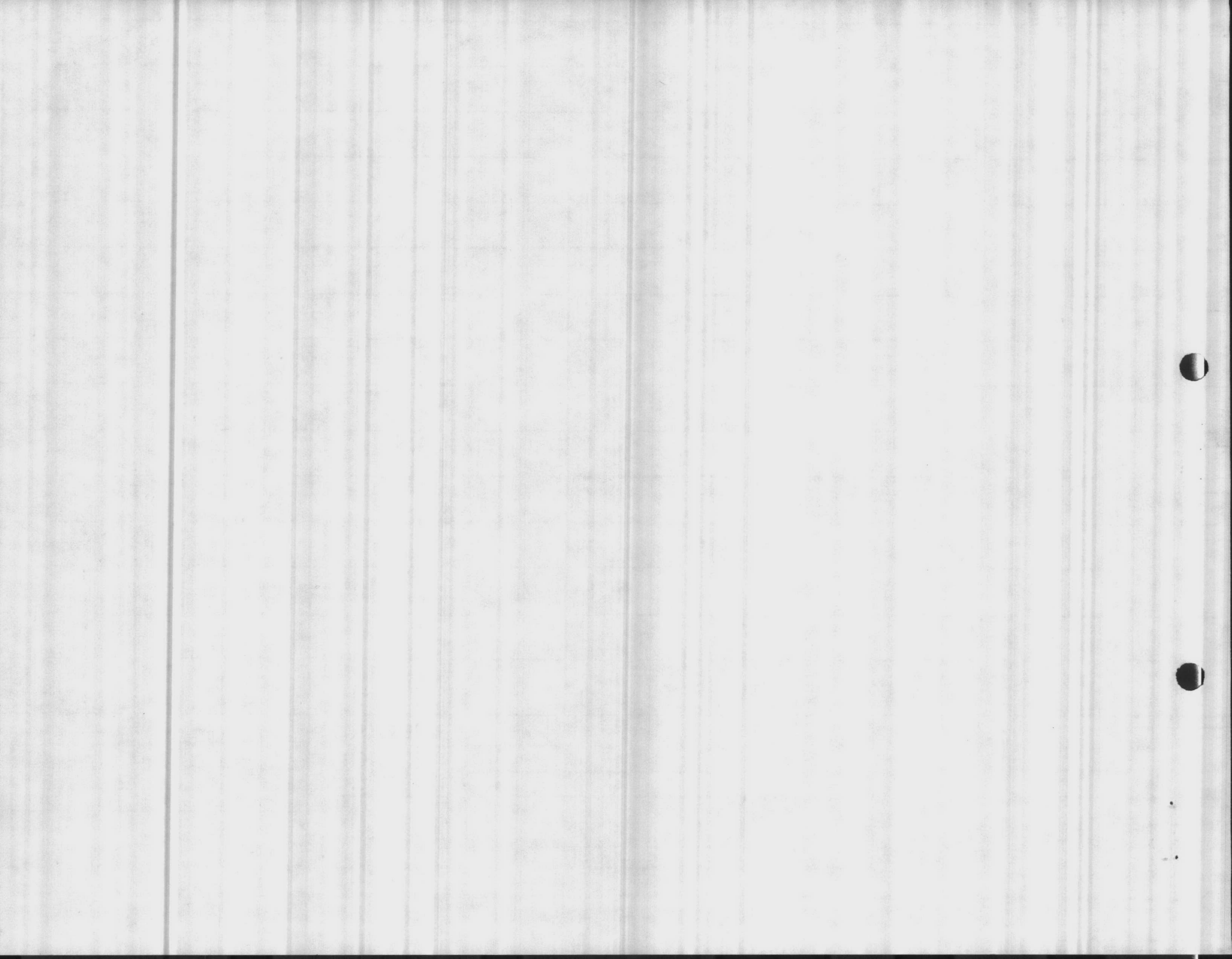
NO. OF UNITS 1
CUSTOMER _____
CUSTOMER P.O. _____

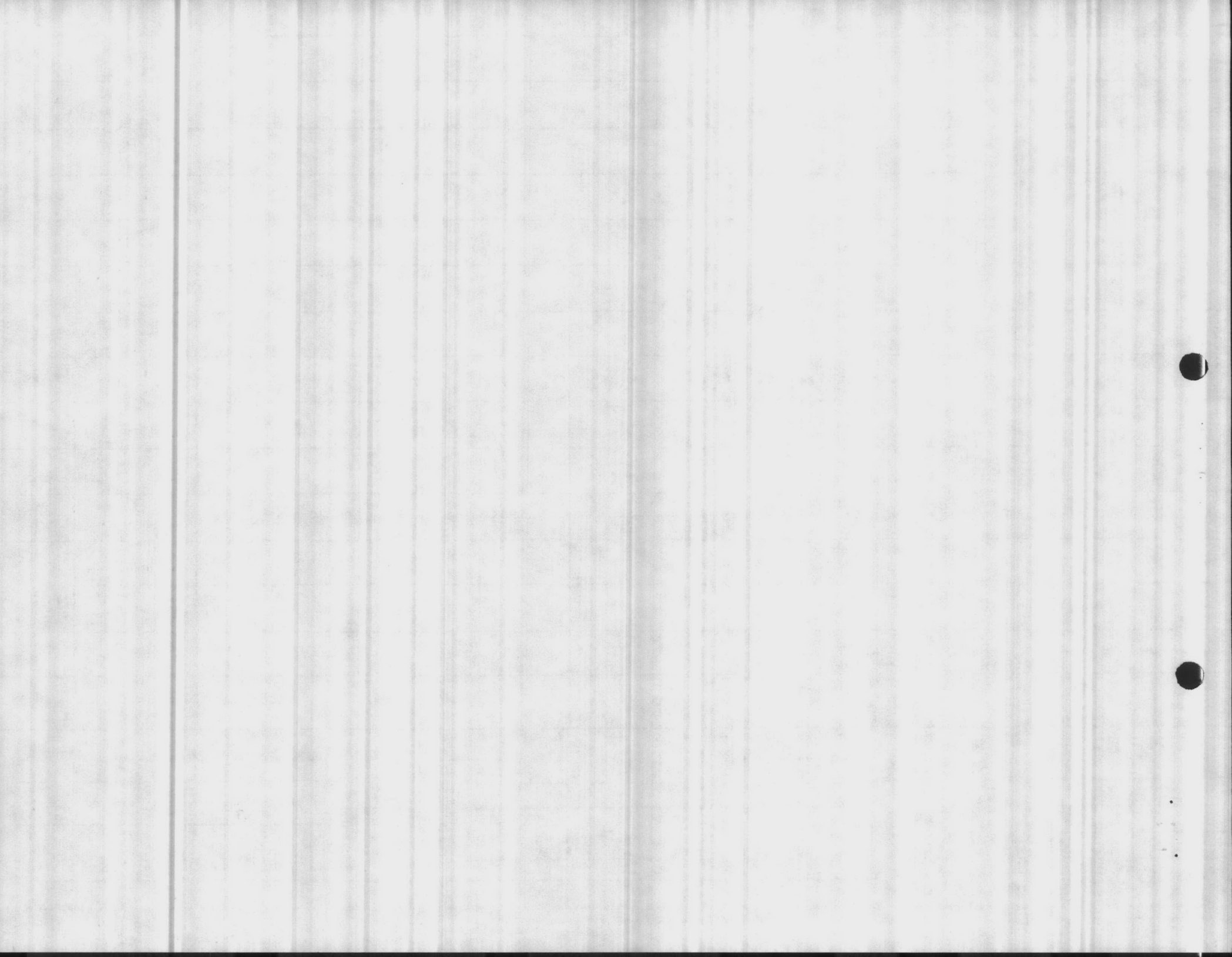
ITEM 1

S.O. 302670

Line #	qty pump	qty or.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LIN	COL
1										
2	1	1	DISCH. BOWL 5" W/L	661	1003		A-4883	A-5587		
3										
4	1	1	DISCH. BOWL BUSHING		1004			IE-280		
5	1	1	PUMPSHAFT W/L 8" S/U 1-3/16" DIA.	660	2227			B-2060	2	6
6	1	1	PUMPSHAFT COUPLING (CH. A-1011-1)	649	2218			IE112		
7	56	56	CAPSCREWS (8 PER STG.+ 8)	760E	2210		3/8"-16	NC X 1"		
8	1	1	PIPE PLUG 1/2 NPT	747E	1000					
9	1	1	STRAINER (CONE)	698				A8922	2	
10										
11										
12										
13										
14										

[Handwritten signature/initials]





DATE ISSUED 11/13/70		REVISION 2-4-74	
DISTRIBUTION			
PROD.		ORDER	
ACCT.			

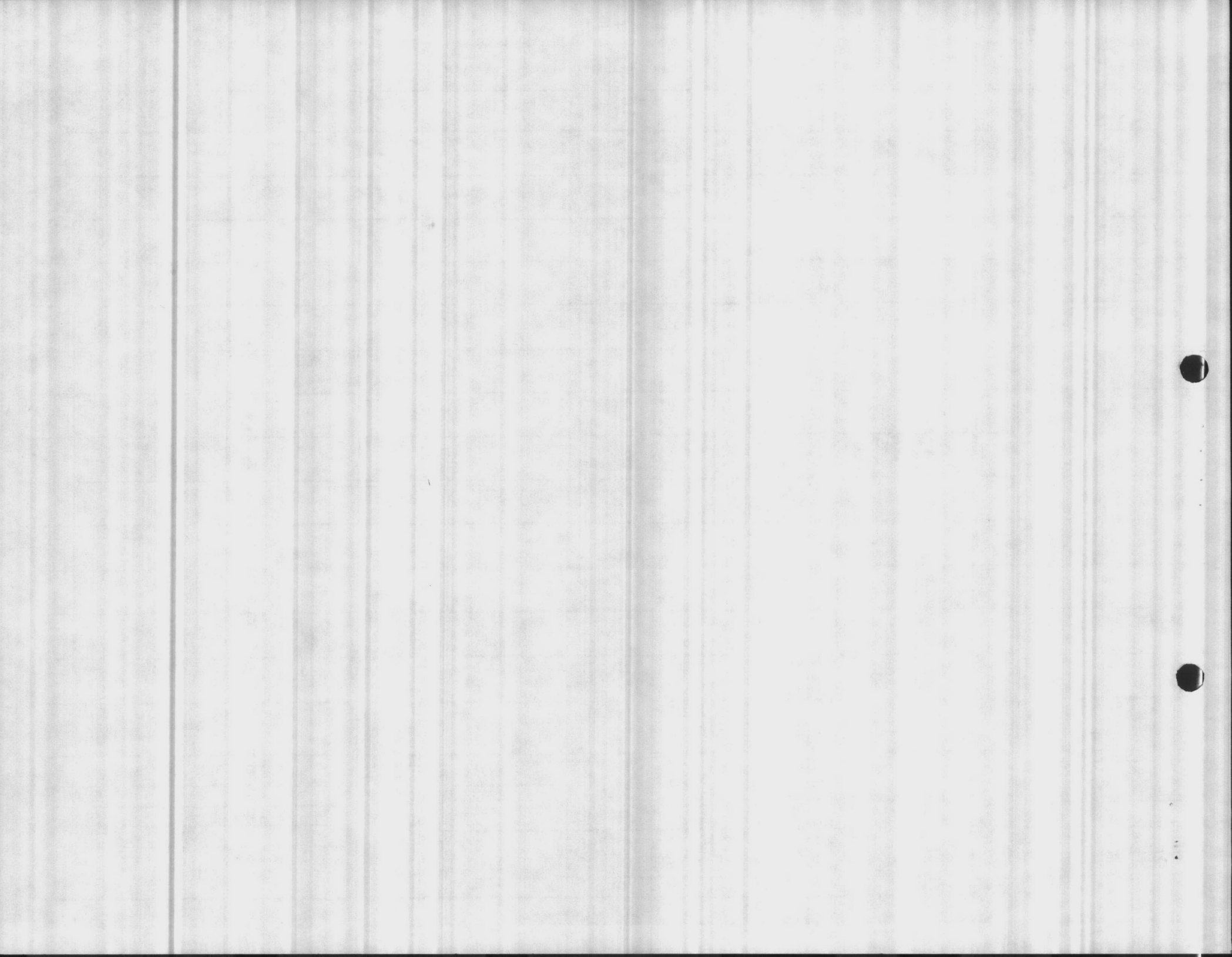
BILL OF MATERIAL	
AGRICULTURAL DISCHARGE HEAD (Heavy Duty) 6" DIS.FLANGE (125# STD.) 6" THR.COLUMN	

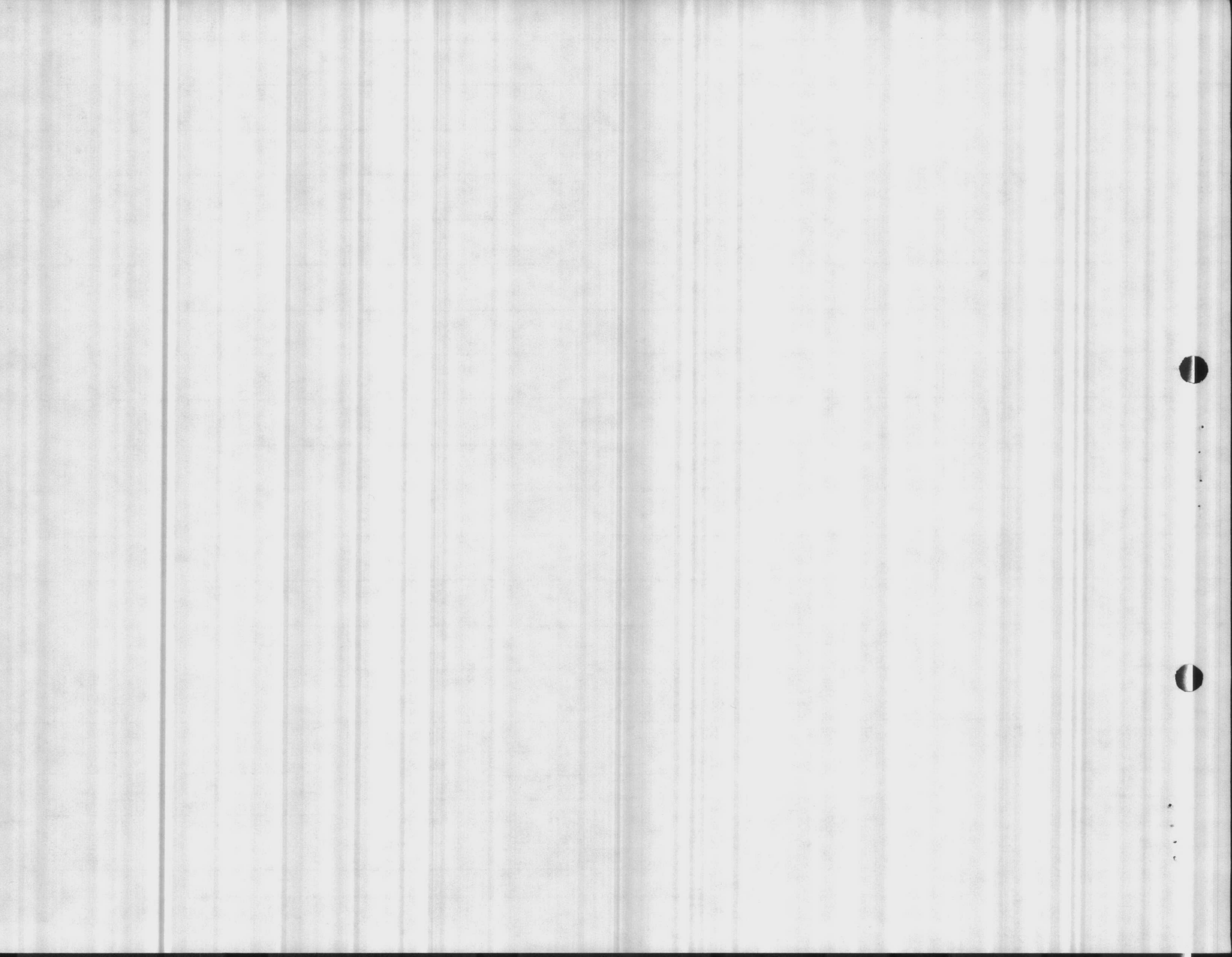
DATE 6 MAY 75 1014
BY J. ROSS

NO. OF UNITS 1
CUSTOMER _____
CUSTOMER P.O. _____ ITEM A

S.O. 302670

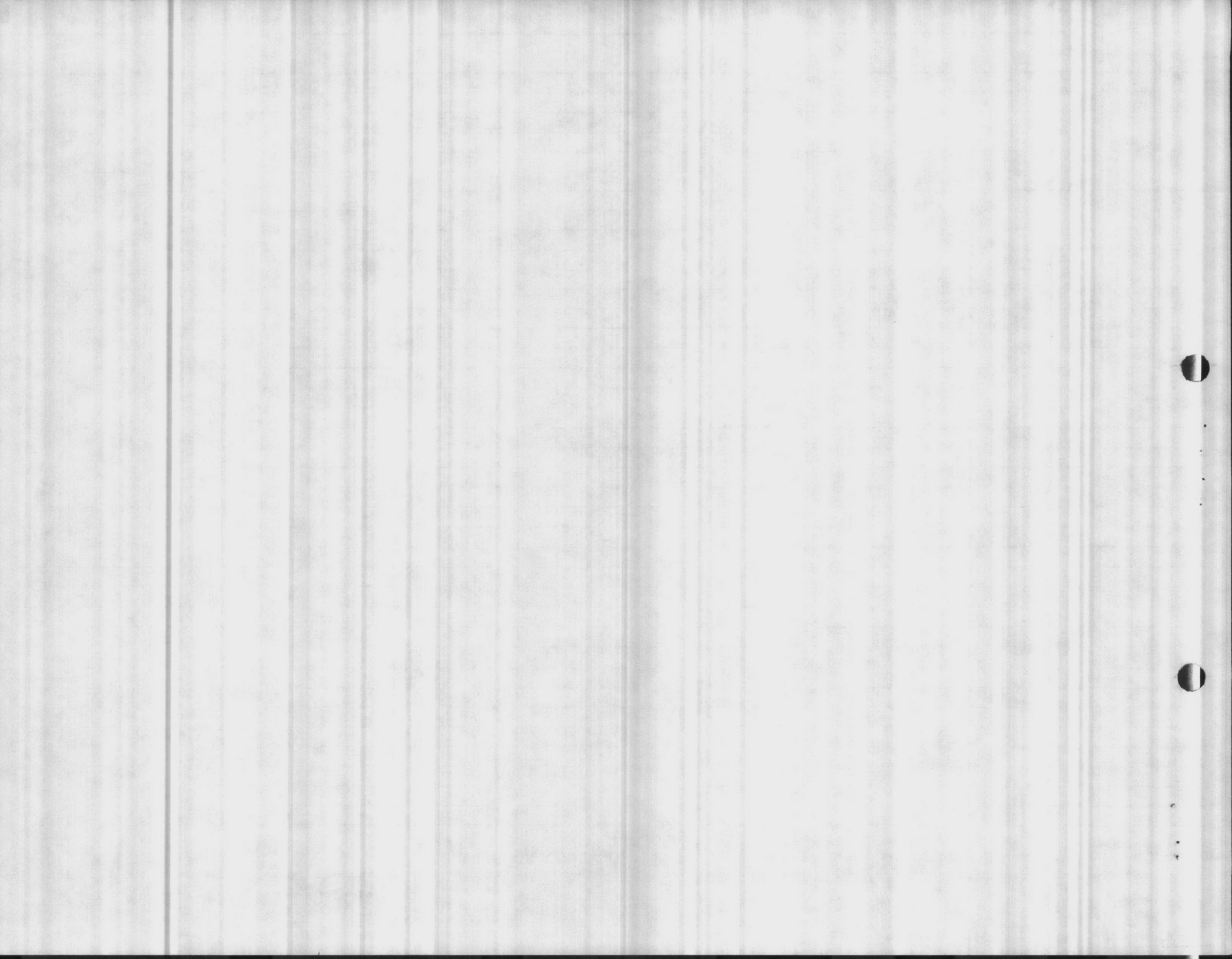
line #	qty pump	qty or.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LINE	COL.
1	1	1	6" HEAD 12" BD (600)	1003			0-106	C-984		
2										
3										
4										
5	1	1	HEAD SHAFT _____ D X _____ LG. (608)	2227				B6126		
6	1	1	ADJUSTING NUT (604)	2242				IE459		
7			SELECT FROM C-1310 (730A)							
8	1	1	LOCK SCREW (757J)	2242			#10-32 UNF X 1 1/4 LG			
	1	1	SLINGER (622)	65				A-5775	2	
10	1	1	PIPE PLUG 1 1/2 NPT (747N)	1000						
11	1	1	PIPE PLUG 1/2 NPT (747B)	1000						
12	4	4	H.H. CAPSCREWS & NUTS (757B)	2210			3/8-16 NC X 1 3/4 LG			
13	1	1	CPLG-HDSFT KEY - HEADSHAFT 3/16 SQ X 2 1/2" LG	2210				A8443	2	
14										
15	1	1	6M X 5F REDUCER (799)	1003				B-3026	E	

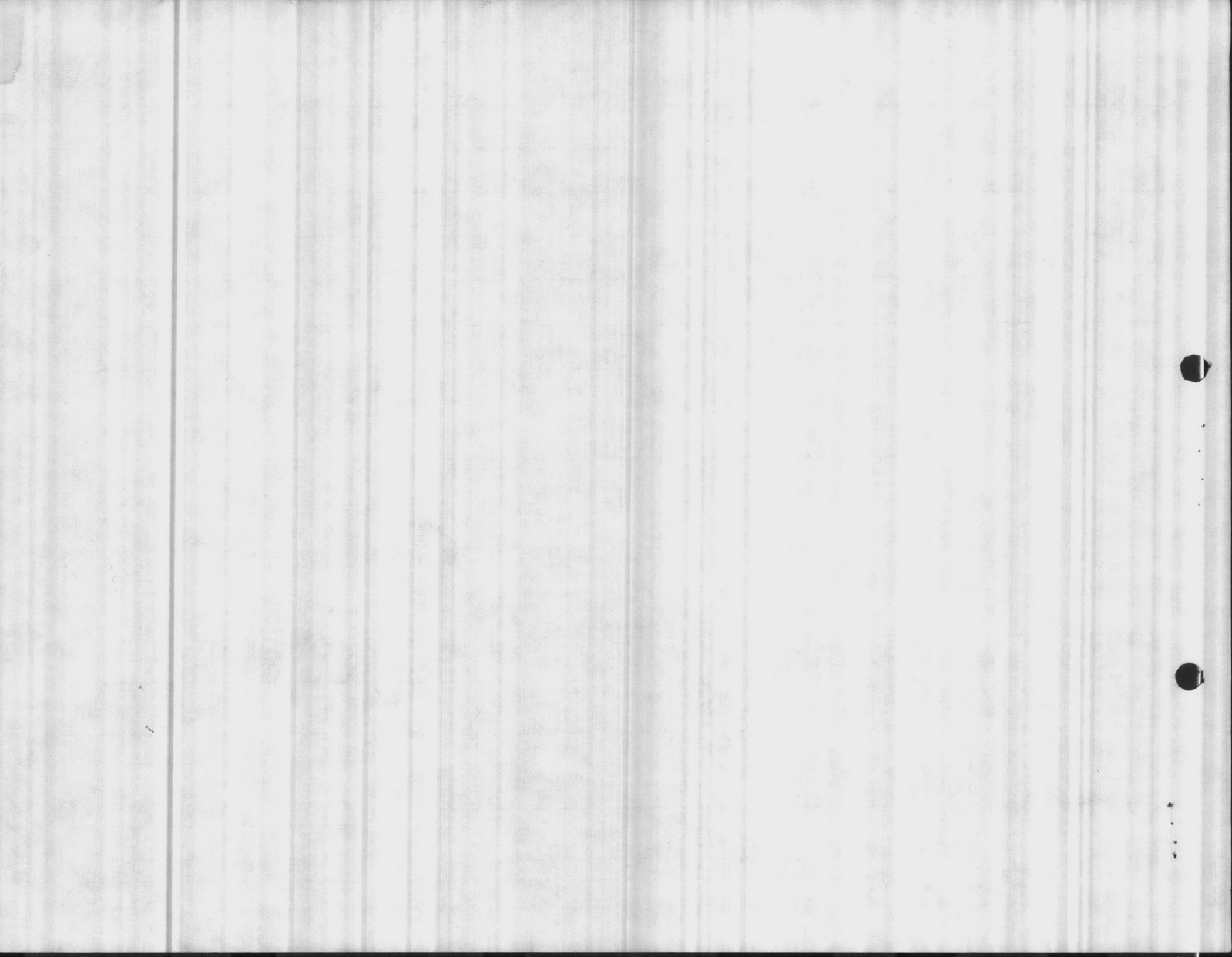


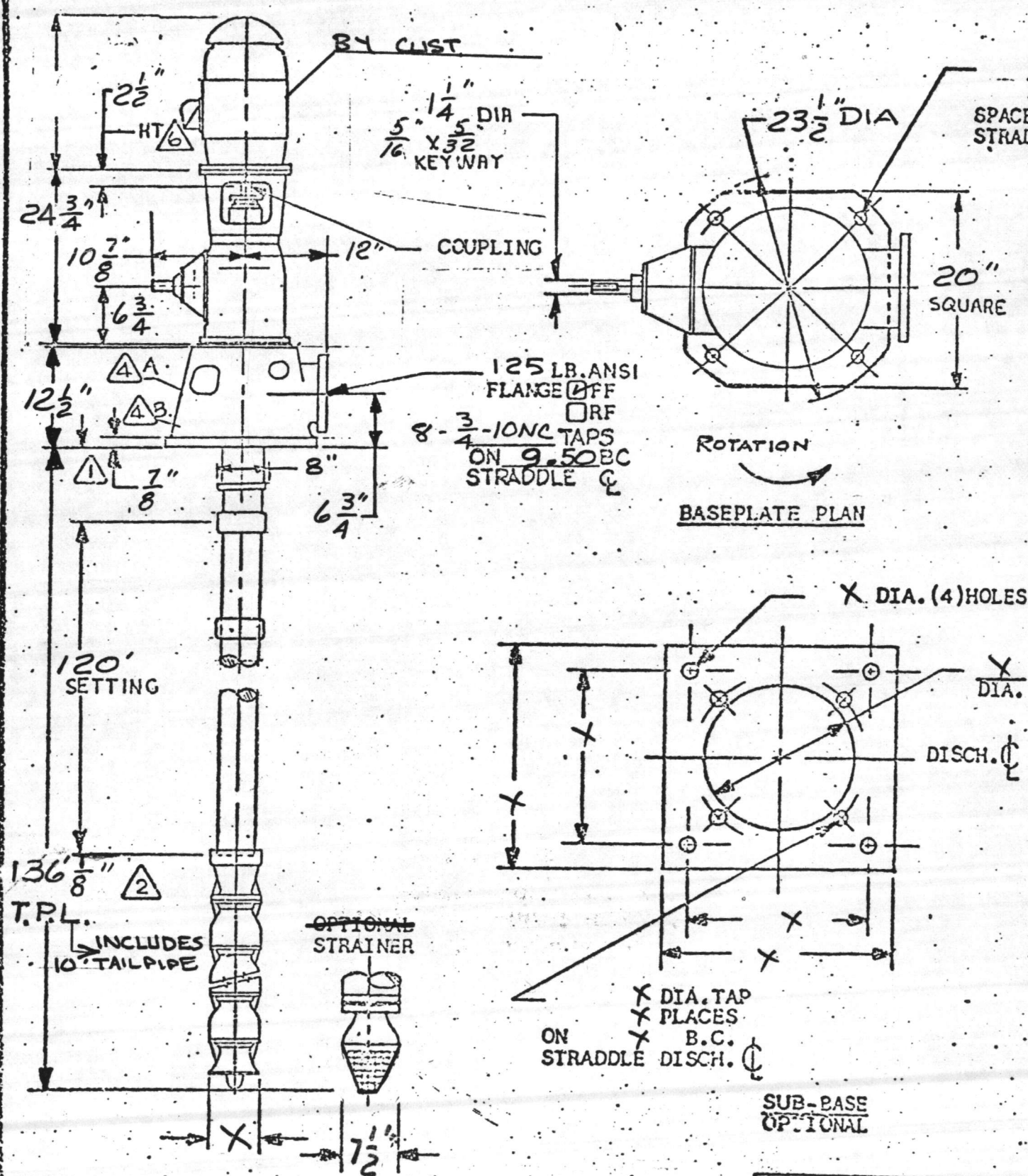


GOULDS PUMP INC. - V.P.D., INDUSTRY, CALIF.			B/M FOR: STUFFING BOX 1" SHAFT NO SLEEVE				ORDER NO: 302670		DATE: 6 MAY 75 BY: J. Rose		QUANTITY: 1		
R.S.P.	LINE NO.	LEVEL	ITEM NO.	PART NAME	DRAWING OR CODE NO. LINE COL.		MAT'L CLASS	ITEM OR PATTERN	PRO-CESS NO.	PCS PER UNIT	QTY. TO ORDER	ALLO-CATE	REMARKS
	1		758A	HEX CAP SCREW	49511	203	2210			6	6		
	2		789B	LOCK WASHER	49522	7	6953			6	6		
	3		739A	STUD	91786	84	2130			2	2		
	4		735	HEX NUT	49507	7	2130			2	2		
	5		759G	HEX CAP SCREW	49511	5	2210			2	2		
	6		735	HEX NUT	49507	2	2210			2	2		
	7		789B	LOCK WASHER	49522	3	6953			2	2		
	8												
	9												
	10		779A	GASKET (MAX. 400#)	B 2749	4	5130			1	1		
*	11												
	12												
	13												
	14		624	BLEEDLINE ASSY.	A 8100	1				1	1		
	15			(OVER 50#)									
	16												
	17												
	18												
	19		616	STUFFING BOX	C 1923		1003	D 1212		1	1		
*	20		617	BEARING S.B.	IE 310		1104			1	1		
	21		618	GLAND-SPLIT	B 3464		1102	X 175		1	1		
*	22		620A	PACKING RING	90855	10				6	6		
	23		789C	WASHER	B 4643	2	3217			1	1		
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
	32			ASSEMBLY	C 1944	3							
	33												
	34												
	35												
	36			LINE NO. 10&11 - DELETE	ONE NOT USED								
	37												
	38			LINE NO. 13&14 - DELETE	ONE NOT USED								

*RECOMMENDED SPARE PARTS







CUSTOMER UNITED STATES MARINE CORP.
P.O. M 67001-TS-M-5383
 ITEM WELL N° 638
 NO. OF UNITS 1
 PUMP SIZE 8J LQ NO. STAGES 6
 GPM 185 T.D.H. 135 FT.
 LIQUID WATER
 SP. GR. 1.0 TEMP. 70°F VISC. -
 COLUMN 5"
 TUBE -
 SHAFT 1.0"
 MAX. BRG. CENTERS 10'
 SEAL PACKING BOX
 COUPLING NONE SPACER LTH. -
 DRIVER MFG. AMARILLO BY CUST.
 H.P. 10 RPM 1760 VSS VHS
 PH. 3 CY 60 VOLTS 208
 THRUST -
 ENCLOSURE -
 FRAME JRL-20

WEIGHT: PUMP 3000 LBS
 DRIVER - LBS
 IMPELLER DIA: 4 15/16 x NO U.F.

NO.	NOTES
1	ADJUSTABLE NIPPLE
2	T.P.L. - TOTAL PUMP LENGTH - IS THE DISTANCE TO LOWEST PROJECTION ON PUMP AND INCLUDES OPTIONAL STRAINERS WHEN SPECIFIED.
3	DRIVER MAY BE ROTATED AT 90 INTERVALS ABOUT VERTICAL CENTERLINE. FOR DETAILS REFER TO DRIVER DIMENSION DRAWINGS.
4	A. 1/2 NPT PRELUDE TAP (PRODUCT LUBE ONLY.) B. SOUND TAP & SEALING ELEMENT DRAIN

ENGINEERED PRODUCTS AND MACHINE TOOL DIVISION
 TIDEWATER SUPPLY COMPANY
 WILMINGTON, N. C.

NOTE CUST., P.O., + ITEM CHANGE		TS	9/1/75
A	REVISED PER CUST REQ.	BY	DATE
LET	REVISION	BY	DATE

TITLE OUTLINE-MODEL - DWT.	
8JLQ / 6 STG	
FORM NO DM-3137	DRAWING NUMBER 302670

DRAWN BY J. ROSE	DATE 7 MAY 75	CHECKED BY BTG	DATE 5-7-75
DO NOT USE FOR CONSTRUCTION UNLESS CERTIFIED			
CERTIFIED BY J. ROSE	DATE 5-7-75		

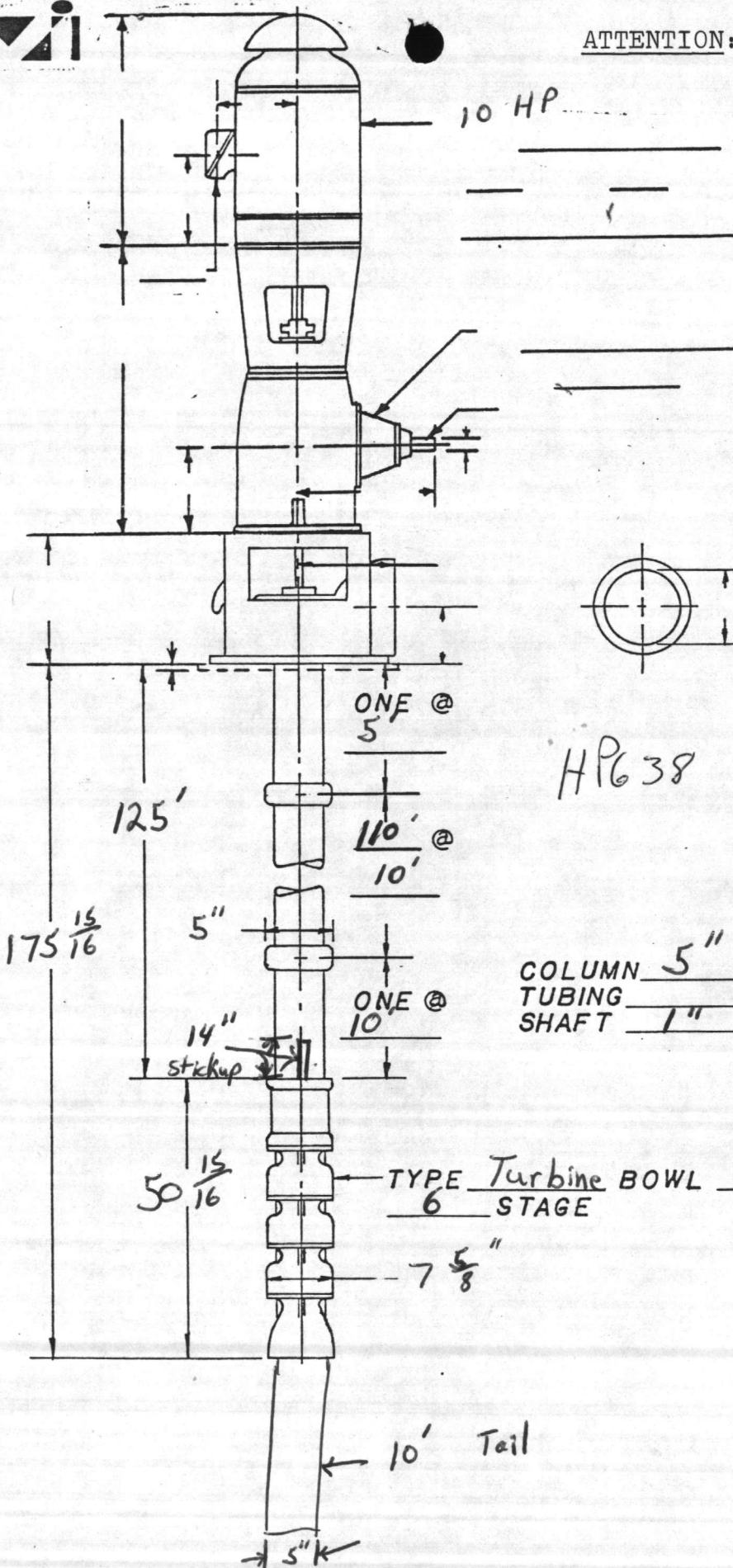
GOULDS PUMPS
 VERTICAL PUMP DIVISION
 INDUSTRY, CALIFORNIA

MINIMUM DIAMETER RECOMMEND TO CLEAR PUMP AND COLUMN ASS'Y IS 9"

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
THE WALTER SUTHER COMPANY
WILMINGTON, DE.



ATTENTION: Mr. Price @
Camp Lejeune Water Plant



HP 38

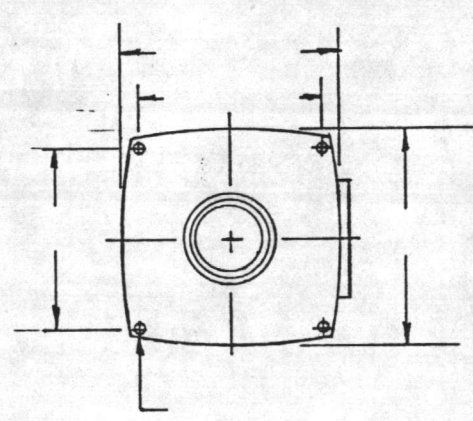
COLUMN 5"
TUBING 5"
SHAFT 1"

TYPE Turbine BOWL 8MMO
6 STAGE

7 5/8"

10' Tail

5" K



CUSTOMER Contracting Division	YOUR NO. M67001-82-M-6212	GPM 185
LOCATION Camp Lejeune N.C.	OUR NO.	TDH 147'
YOUR APPROVAL	PUMP NO. GNC-102	RPM 1760
DATE	Jan. 27 1982	RWD 10

HIC 22

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DATE ISSUED 5/14/71		REVISION	
DISTRIBUTION			
PROD.	ORDER		
ACCT.			

BILL OF MATERIAL	
8JO BOLTED BOWL ASSEMBLY	
AGR. - W/L	

DATE 6 MAY 1975
BY J. Rose

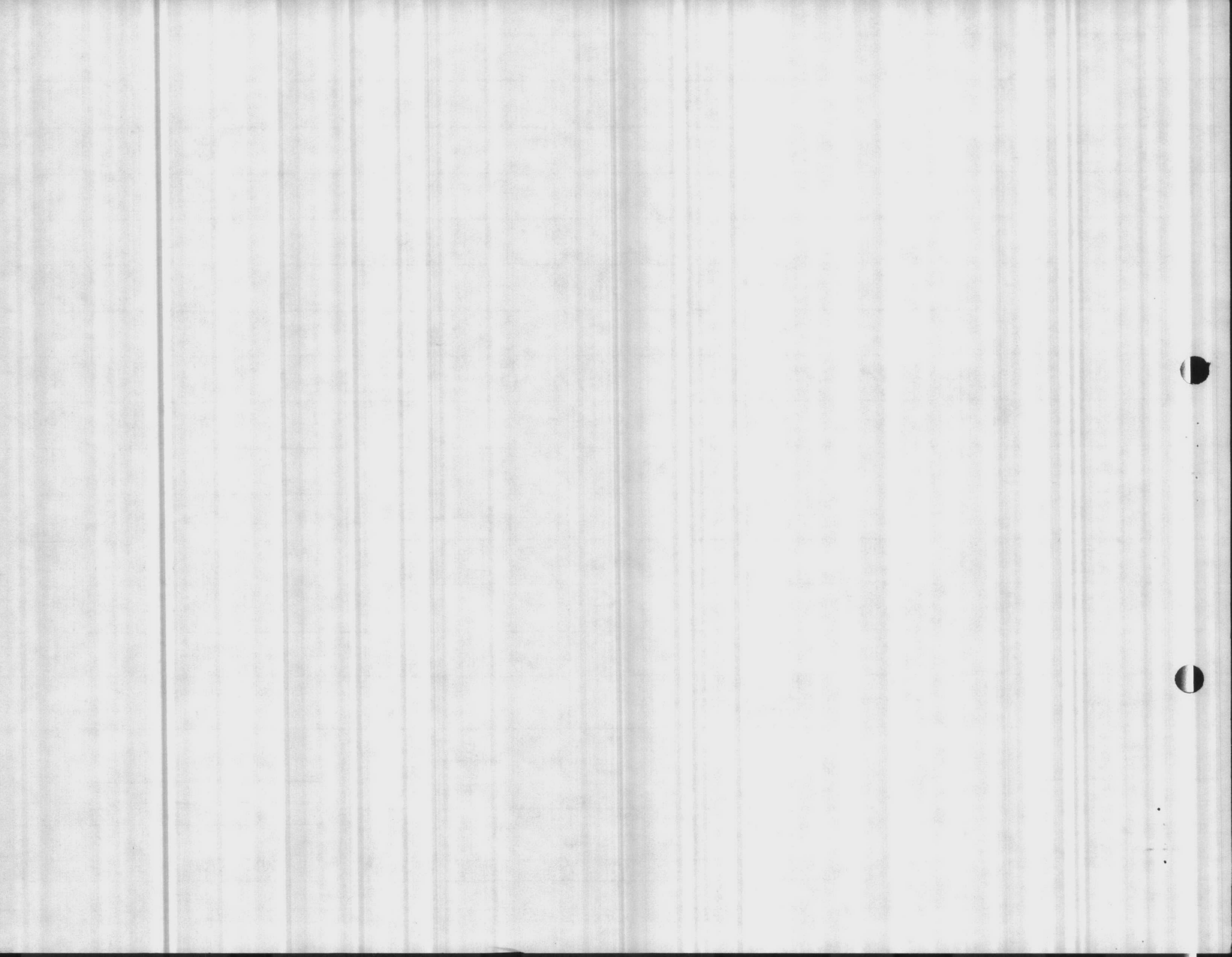
NO. OF UNITS 1
CUSTOMER UNITED STATES MARINE CORP. ^(B)
CUSTOMER P.O. M67004-75-5383 ITEM Well N° 638 S.O. 302670

Line #	qty pump	qty cr.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LINE	COL
1	1	1	SUCTION BOWL 5" NPT	688 1003			L-143	B-2772		
2										
3										
4	1	1	SUCTION BUSHING	1104				IE-279		
5	1	1	SAND COLLAR	692 1102			IE-281	IE-281		
6	1	1	TOP INT. BOWL	669 1003	IC		U-124	B-2777		
7	5	5	INT. BOWL	670 1003	IC		U-125	B-2780		
8	6	6	FLEETWOOD F8J11 INT. BOWL BUSHING	672				A7391	6	
9	6	6	IMPELLER (L) 4 15/16 D.X NO U.F.	1102	4H		S-183	A-8154		
10										
11	6	6	TAPER LOCK	677 2242				IE-331		
12										
13										
14										

ENGINEERED PRODUCTS
AND
MACHINE TOOL DIVISION
TIDEWATER SUPPLY COMPANY
WILMINGTON, N. C.

УЧЕБНИК
ПО МАТЕМАТИКЕ
ДЛЯ ДЕТЕЙ
СРЕДНЕЙ ШКОЛЫ





DATE ISSUED 11/13/70	REVISION 2-4-74
DISTRIBUTION	
PROD.	ORDER
ACCT.	

BILL OF MATERIAL

AGRICULTURAL DISCHARGE HEAD (Heavy Duty)
6" DIS.FLANGE (125# STD.) 6" THR.COLUMN

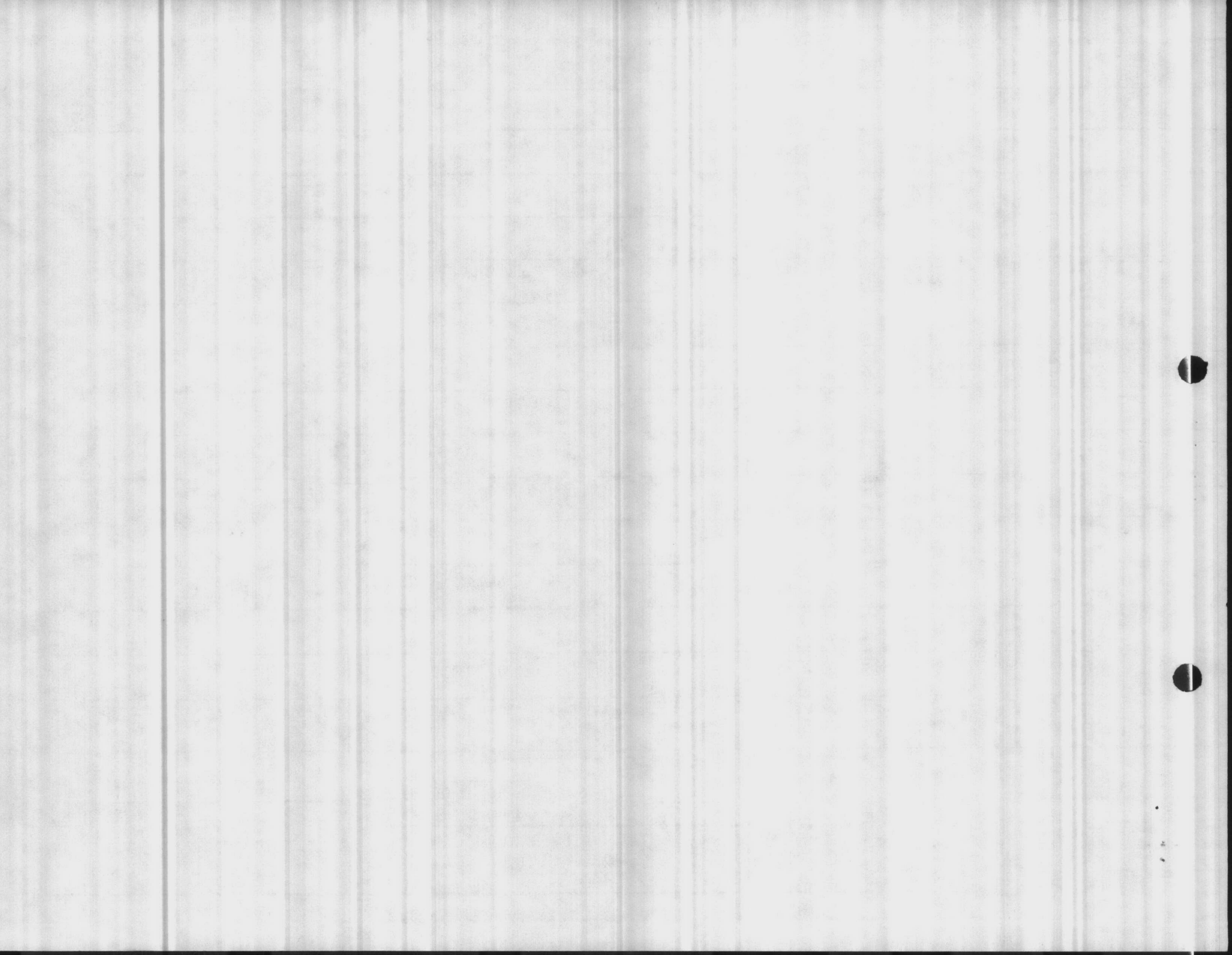
DATE 6 MAY 75 1014
BY J. ROSS

NO. OF UNITS 1
CUSTOMER _____
CUSTOMER P.O. _____

ITEM ▲

S.O. 302670

line #	qty pum.	qty or.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LINE	COL.
1	1	1	6" HEAD 12" BD (600)	1003			0-106	C-984		
2										
3										
4										
5	1	1	HEAD SHAFT _____ D X _____ LG. (608)	2227				B6126		
6	1	1	ADJUSTING NUT (604)	2242				1E459		
7			SELECT FROM C-1310 (730A)							
8	1	1	LOCK SCREW (757J)	2242			#10-32 UNF X 1 1/4 LG			
	1	1	SLINGER (622)	65				A-5775	2	
10	1	1	PIPE PLUG 1 1/2 NPT (747N)	1000						
11	1	1	PIPE PLUG 1/2 NPT (747B)	1000						
12	4	4	H.H. CAPSCREWS & NUTS (757B)	2210			3/8-16 NC X 1 3/4 LG			
13	1	1	CPLG-HDSFT KEY - HEADSHAFT 3/16 SQ X 2 1/2" LG	2210				A8443	2	
14										
15	1	1	6M X 5F REDUCER (799)	1003				B-3026	E	



* = LINE AND COLUMN DWG.

DATE ISSUED 11/13/70	REVISION 2-4-74
DISTRIBUTION	
PROD.	ORDER
ACCT.	

BILL OF MATERIAL
 AGRICULTURAL DISCHARGE HEAD (Heavy Duty)
 6" DIS.FLANGE (125# STD.) 6" THR.COLUMN

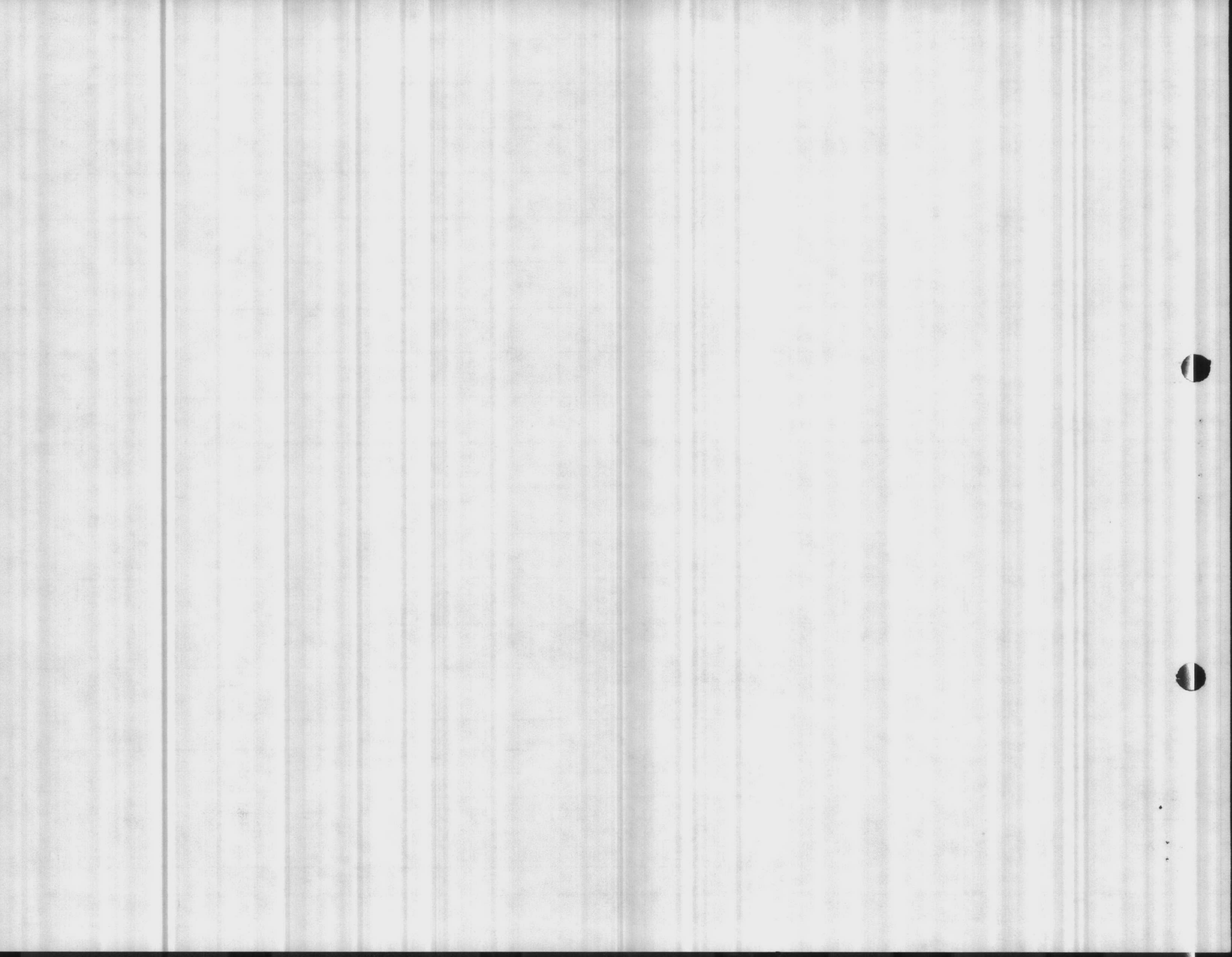
DATE 6 MAY 75 ¹⁰¹⁴
 BY J. ROSE

NO. OF UNITS _____
 CUSTOMER _____
 CUSTOMER P.O. _____

S.O. 302670

Line #	qty pump	qty or.	PART NAME & TYPE	MAT'L	PRO-CESS	HEAT TREAT	PATTERN #	MACHINE DRAWING	LIN	COL.
1	1	1	LOCK RING 5" (639)	1003			A-963	A-964-8		
2	1	1	COLUMN NIPPLES 5" X 12" LG.(631)	6521				A-5776	4	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										



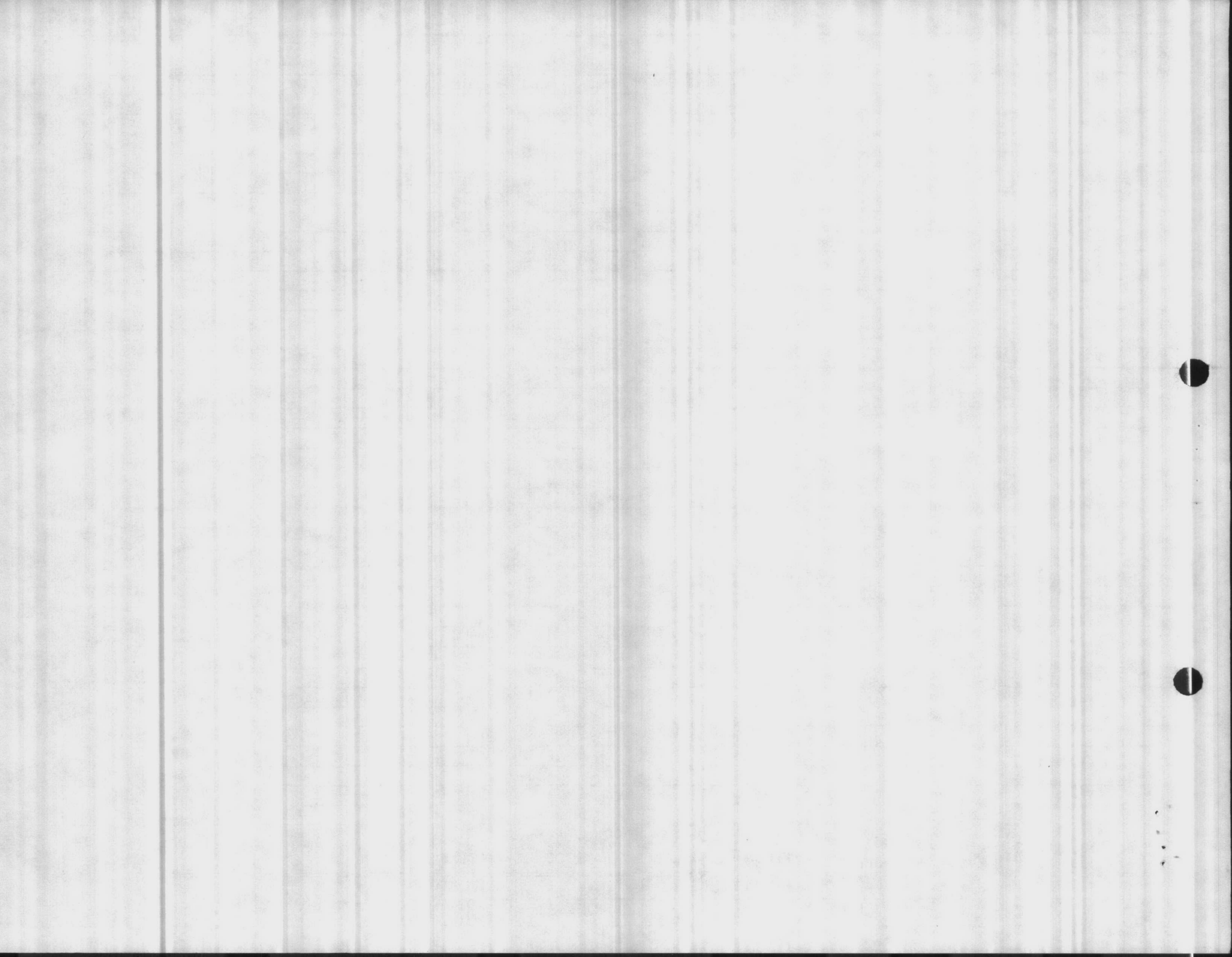


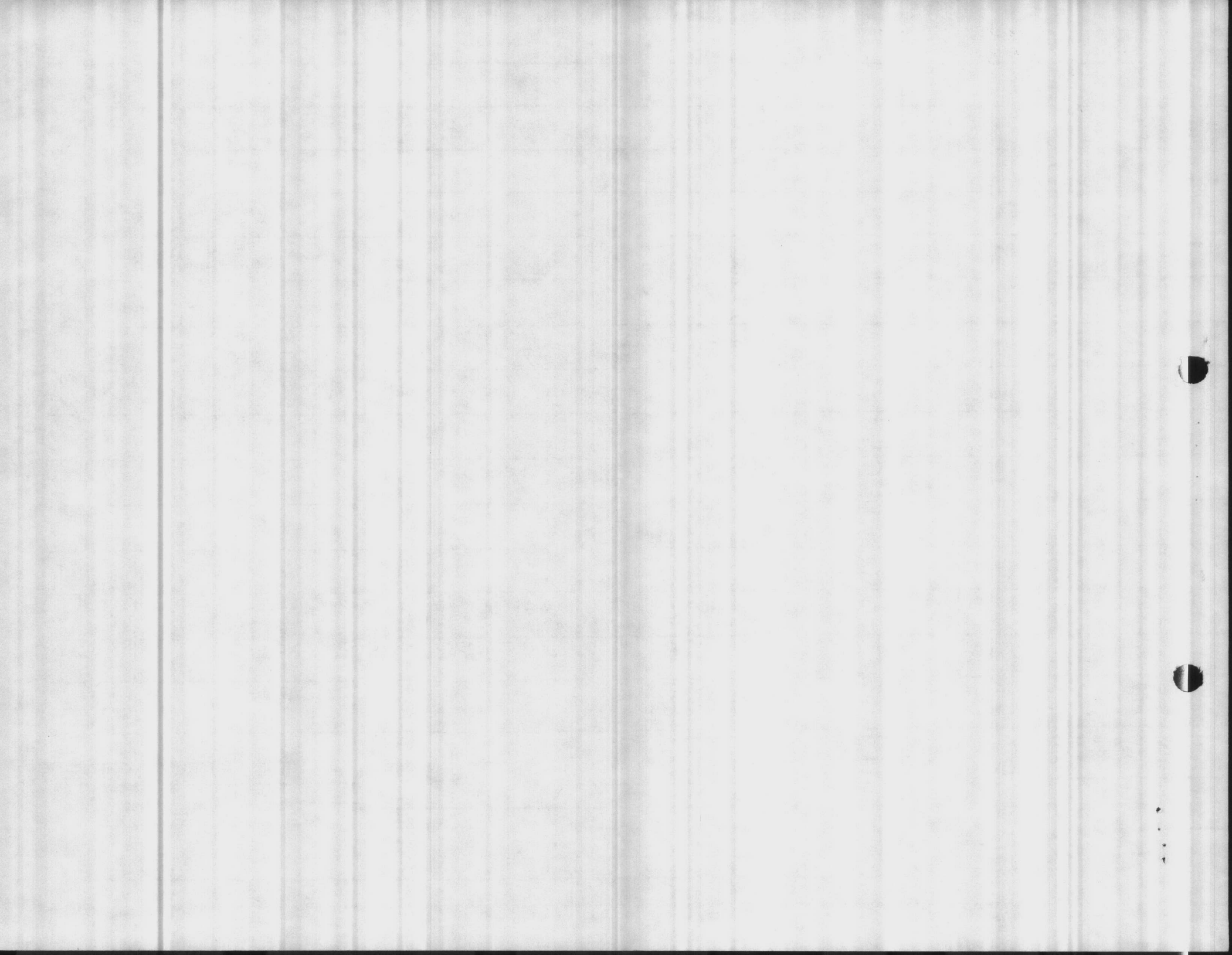
GOULDS PUMP INC. - V.P.D., INDUSTRY, CALIF.

B/M FOR: STUFFING BOX
1" SHAFT NO SLEEVE

ORDER NO: 302670
DATE: 6 MAY 75 BY: J. Rose QUANTITY: 1

R.S.P.	LINE NO.	LEVEL	ITEM NO.	PART NAME	DRAWING OR CODE NO.		MAT'L CLASS	ITEM OR PATTERN	PRO-CESS NO.	PCS PER UNIT	QTY. TO ORDER	ALLO-CATE	REMARKS
					LINE	COL.							
	1		758A	HEX CAP SCREW	49511	203	2210			6	6		
	2		789B	LOCK WASHER	49522	7	6953			6	6		
	3		739A	STUD	91786	84	2130			2	2		
	4		735	HEX NUT	49507	7	2130			2	2		
	5		759G	HEX CAP SCREW	49511	5	2210			2	2		
	6		735	HEX NUT	49507	2	2210			2	2		
	7		789B	LOCK WASHER	49522	3	6953			2	2		
	8												
	9												
	10		779A	GASKET (MAX. 400#)	B 2749	4	5130			1	1		
*	11												
	12												
	13												
	14		624	BLEEDLINE ASSY.	A 8100	1				1	1		
	15			(OVER 50#)									
	16												
	17												
	18												
	19		616	STUFFING BOX	C 1923		1003	D 1212		1	1		
*	20		617	BEARING S.B.	IE 310		1104			1	1		
	21		618	GLAND-SPLIT	B 3464		1102	X 175		1	1		
*	22		620A	PACKING RING	90855	10				6	6		
	23		789C	WASHER	B 4643	2	3217			1	1		
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												
	32			ASSEMBLY	C 1944	3							
	33												
	34												
	35												
	36			LINE NO. 10&11 - DELETE	ONE NOT USED								
	37												
	38			LINE NO. 13&14 - DELETE	ONE NOT USED								





H.P. Well 638

