

## FILE FOLDER

### DESCRIPTION ON TAB:

T.T. 30      Well #13

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**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**

Well TT 30

WORK ORDER # 3643-2383

Pump pulled & cleaned 2/6/79  
Pump was completely stopped up  
with iron. When pump was  
being put back in the suction  
bowl assembly & 2 sections of column  
was dropped in well, but was  
later removed

2/15/79 WRP



3/9/82 by Worth Sec.

11-30

Drilled 1971

SCREEN 50'-70'

" 98'-113'

DEPTH 12 ft

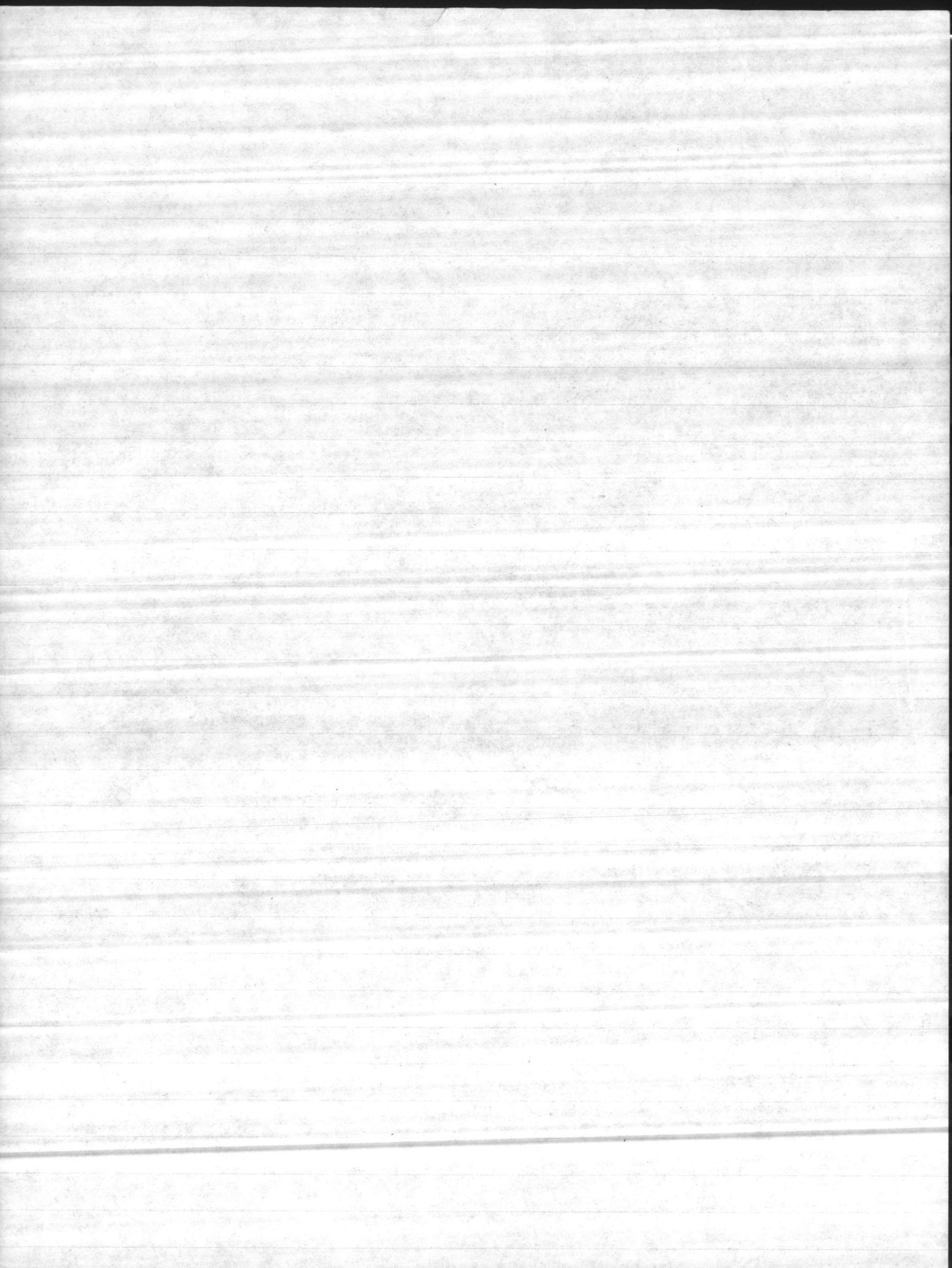
11-9-83

PUMP INFO.

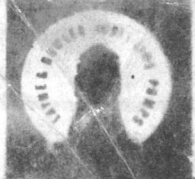
JOHNSTON PUMP

9 STAGE

MOTOR H.P. 7.5



T T 30

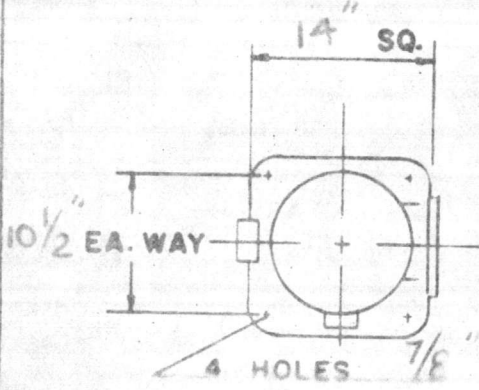


# Verti-Line DEEP WELL PUMP

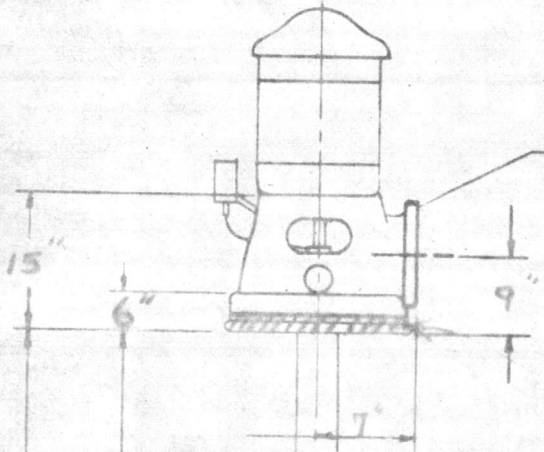
ENCLOSED LINESHAFT CONSTRUCTION

Well # 13

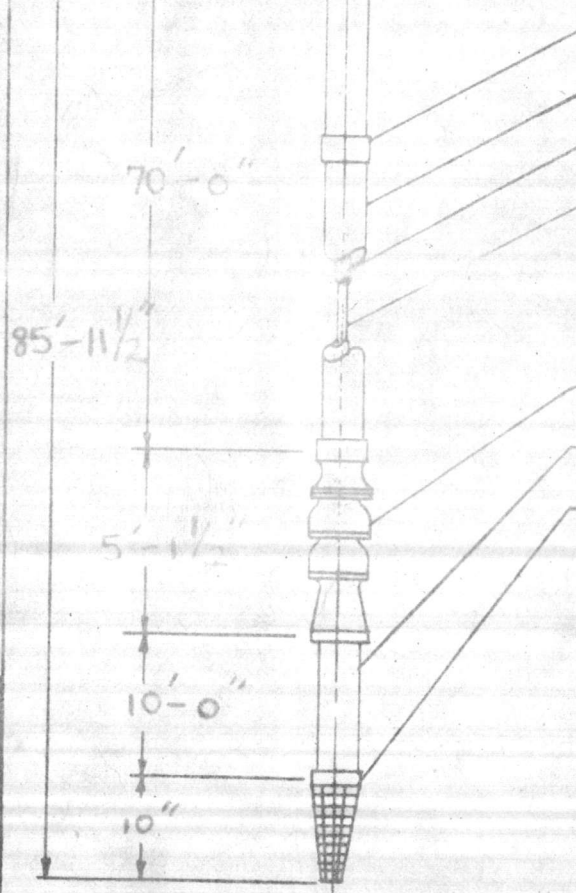
Model No: 7 1/2 WP 6RL-13



10ACG DISCHARGE HEAD  
 5 7/2 HP V.H.S. ELECTRIC MOTOR  
 1800 RPM 60 CYCLE 3 PHASE 230 V.  
 W/ N.R.R.  
 2 STAGE 6RL BOWLS  
 100 GPM. 110 FT. PER CURVE 651  
 DISCHARGE FLANGE 6" 125 LB. A.S.A.



2" cast IRON Base Plate



PIPE COUPLING O.D. \_\_\_\_\_  
 4" COLUMN PIPE IN 10" LGTHS.  
 1 1/2" ENCLOSING TUBE IN 10" LGTHS.  
 1" LINESHAFT IN 10" LGTHS.  
 TOTAL OVERALL COLUMN LGTH 70'  
 MAX O.D. BOWL ASSEMBLY \_\_\_\_\_  
 4" SUCTION PIPE IN 10 LGTHS.  
 4' CONICAL STRAINER

LAYNE & BOWLER PUMP CO.
PROPOSAL FOR T.T. # 29 Job
SPEC. WATER WELL ITEM Pump
CERTIFIED 10-13-71
BY Jim Sams L. & B. NO. 101371-J

HA 3412-A

1,244,002





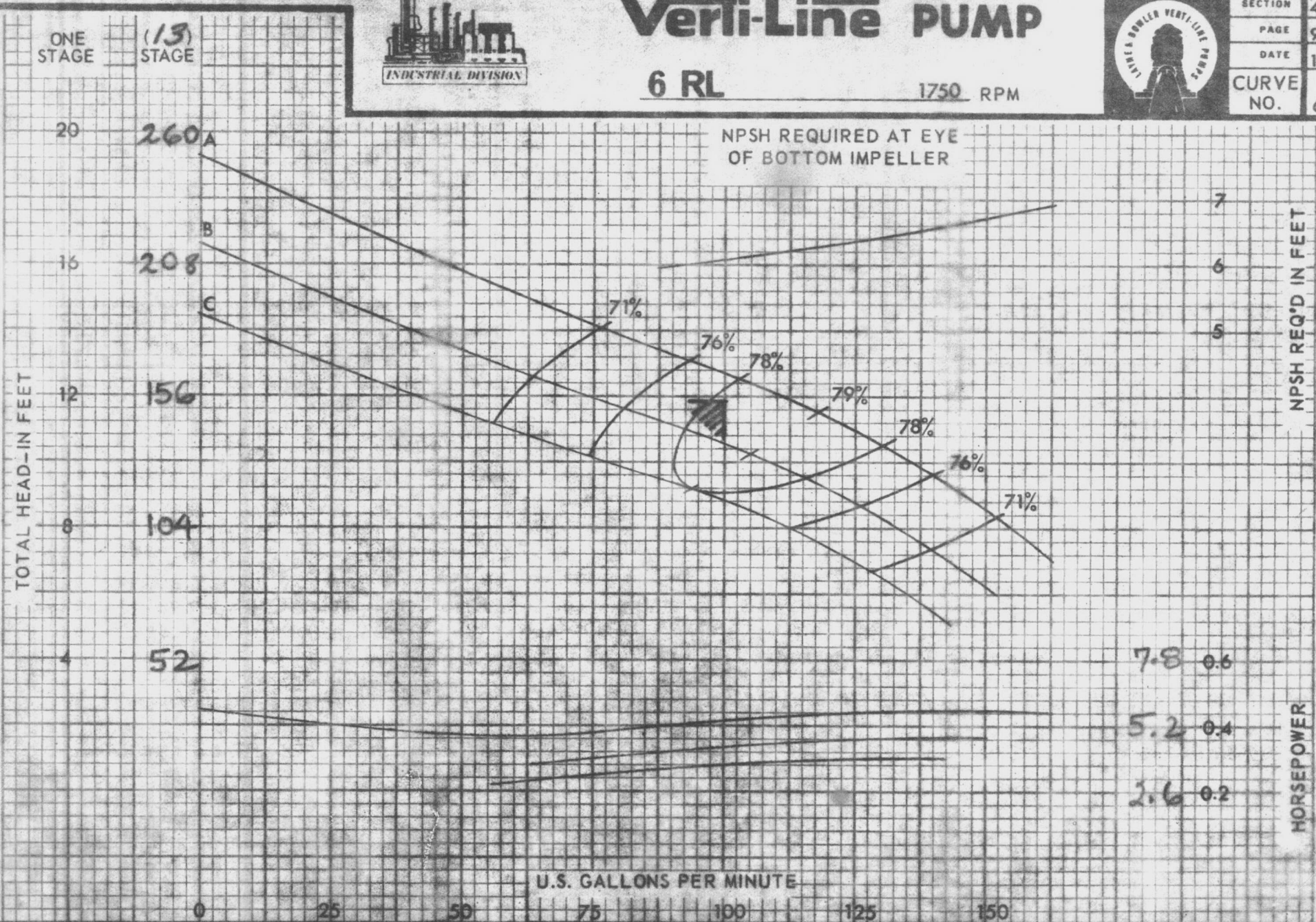
# Verti-Line PUMP



SECTION	40
PAGE	910
DATE	11-15-64
CURVE NO.	651

## 6 RL

## 1750 RPM



CUSTOMER Carolina Well & Pump Co.  
 ADDRESS Spartanburg, N.C.  
 JOB T.T. # 29 Job  
 PROPOSAL # 101571-J

**LAYNE & BOWLER PUMP CO.**  
 CITY OF INDUSTRY, CALIFORNIA - LOS ANGELES AREA  
 SEE REVERSE SIDE FOR DETAILED INFORMATION



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

**APPROVED**

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT <sup>N62470-71-C-0547</sup> ~~NBY~~ SEC. NO. 05-71-0507

DATE 29 Nov 71

*[Signature]*  
W. F. RUSSELL, JR.  
CAPT. CEC. USN  
Officer in Charge  
of Construction

## FILE FOLDER

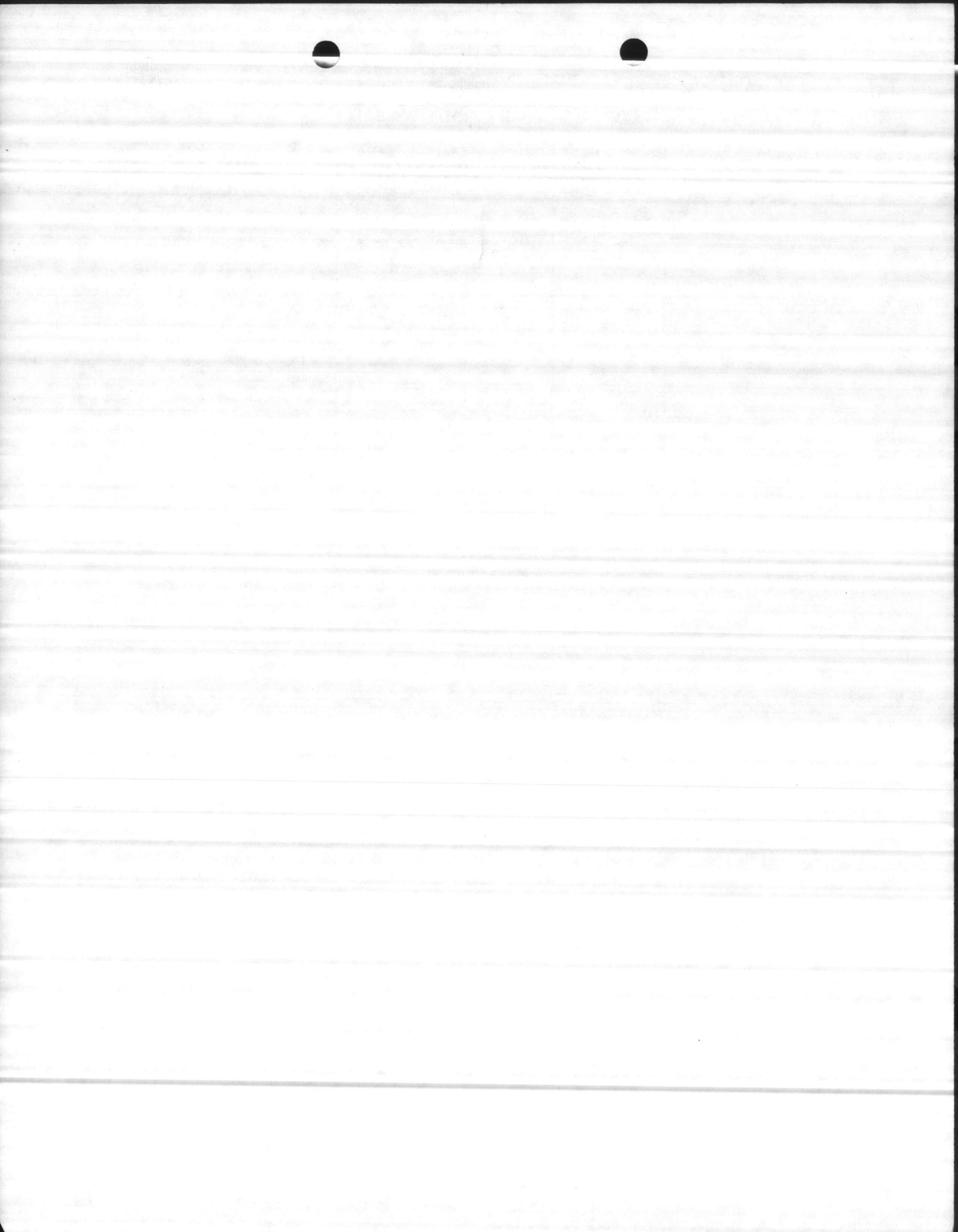
### DESCRIPTION ON TAB:

T. T. 31      Well #14

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- Outside/inside of actual folder did not contain hand written information**
- Outside/inside of actual folder did contain hand written information**  
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TT31  
DATE

LENGTH  
OF  
AIR LINE

STATIC  
LEVEL

PUMPING  
LEVEL

DRAW  
DOWN

DISCHARGE  
PRESSURE

CAP. PER  
FOOT OF  
DRAW DOWN  
*5/8"*

TOTAL  
CAP.

9-14-82

70"

36'

64

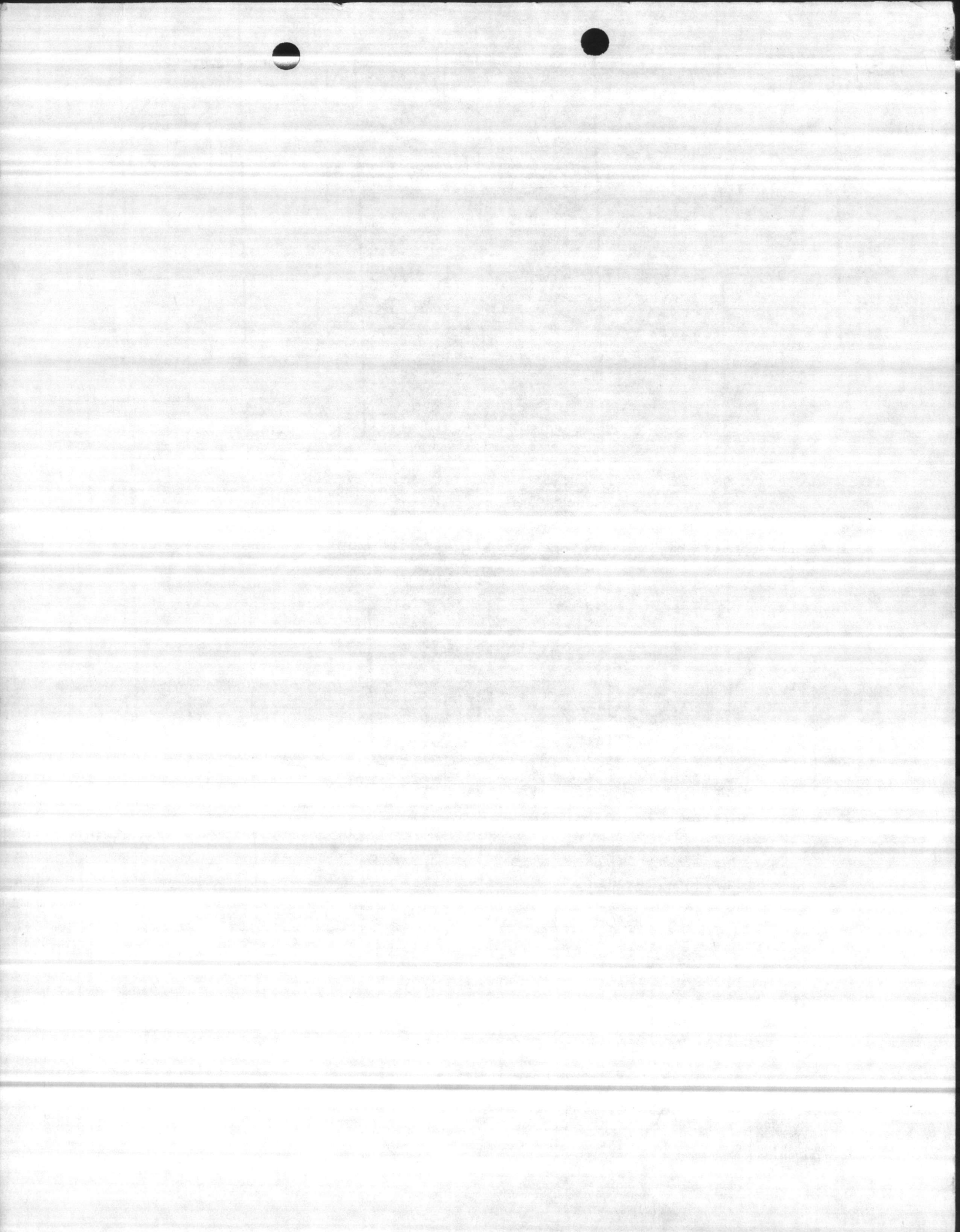
28

27

104

REMARKS:

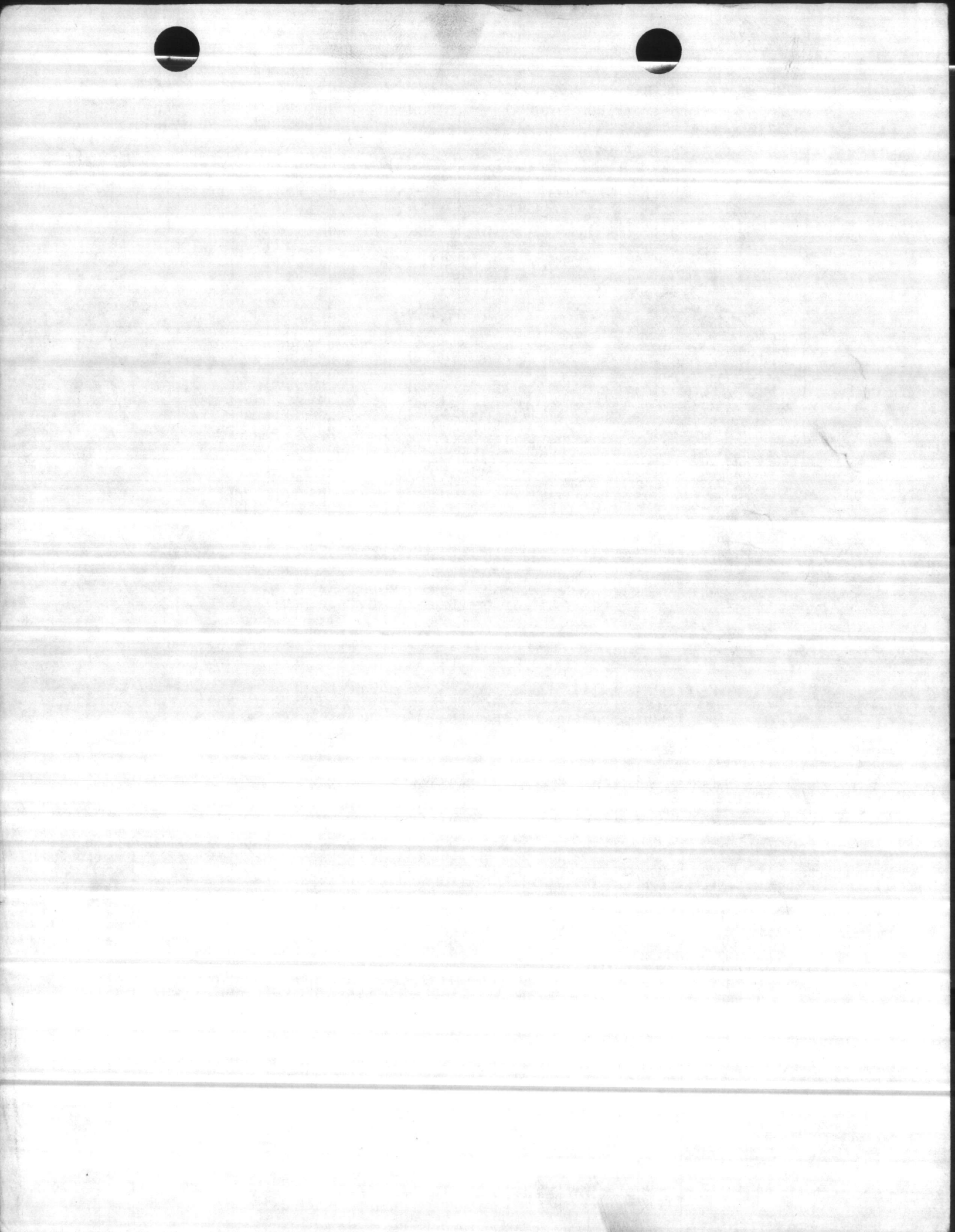
*used direct reading gage*



WELL NUMBER		BY			DATE	
TT31		THOMAS/BROWN			7-6-84	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
70'	32	55	23	39	100	1225
		58	26	36	108	1240
		62	30	32	119	1250

REMARKS installed pump - set at 70' with 1' shaft and 70' of 1/2" air line, has 1 1/2" sleeve through stuffing box

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE
Valley	9	CNC 119 - MODEL 6XME98	105 at 150 GPM	6" 1750 RPM

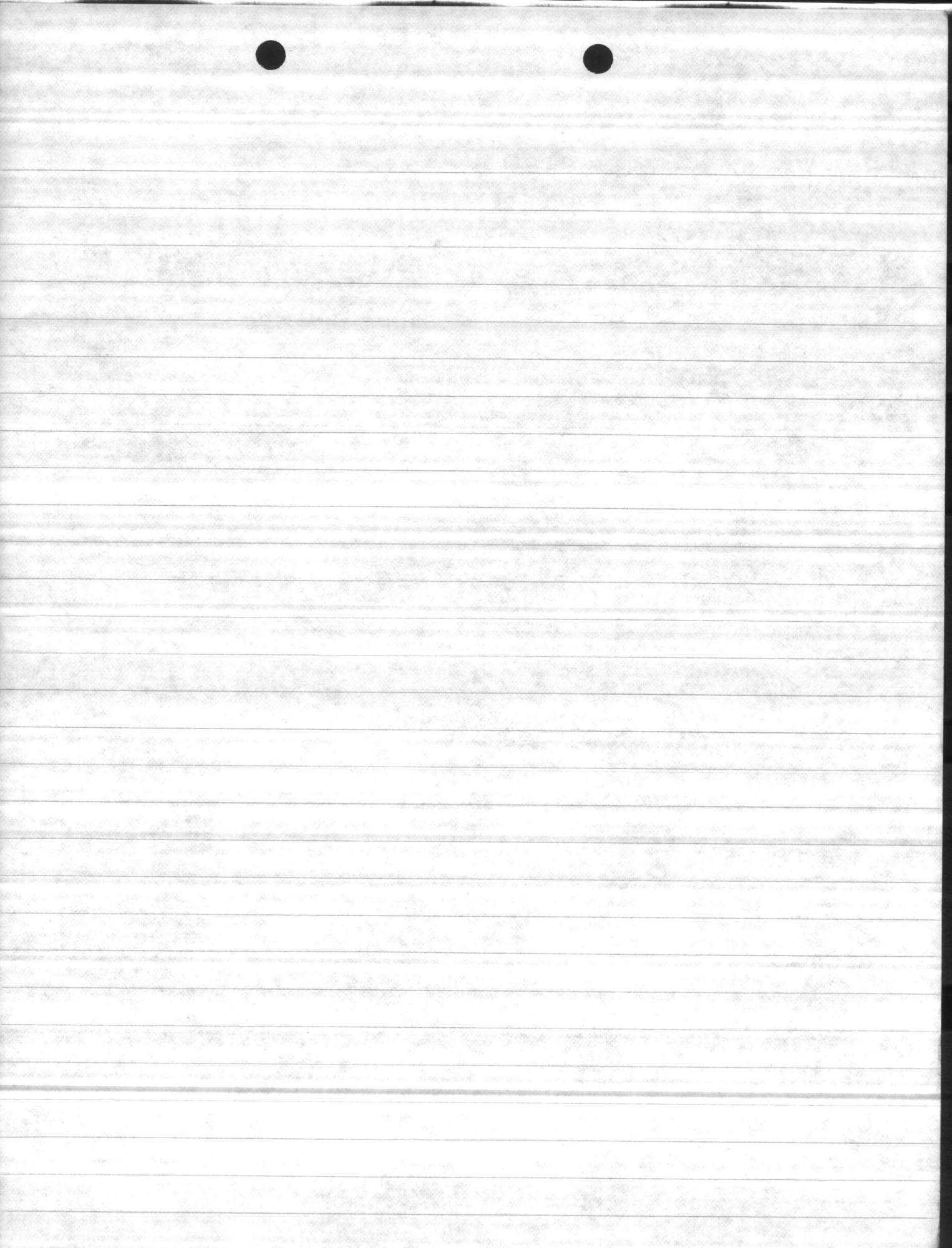




TT 31

9-13-85

A-L-	S-L-	P-L-	D-D-	G. Am	psi	Time
70	33	55	12	104	38	15
		61	28	111	33	15



DD FORM 1348 (6-PT) 1 MAR 74

D O D SINGLE LINE ITEM REQUISITION SYSTEM DOCUMENT (MANUAL)

EDITION OF 1 AUG. 61 MAY BE USED UNTIL EXHAUSTED

DOC. IDENT.	ROUT. IDENT.	FSC	NIIN	ADD	UNIT OF ISSUE	QUANTITY	REQUISITIONER	DATE	SERIAL	SUPPLEMENTARY ADDRESS	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ. DEL. DATE	ADV. STAT																			
SEND TO:							REQUISITION IS FROM:																												
A							B																												
DOC. IDENT.		EDITING DATA			DOC. IDENT.		ROUTING IDENTIFIER			M & S		FSC			STOCK NUMBER			UNIT OF ISSUE		QUANTITY															
1	2	3	4	5	6	44	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
C							D																												
DOCUMENT NUMBER							REMARKS																												
SERV. REQUISITIONER DATE SERIAL DEM-AND							Pump, vertical turbine, deepwell, water lubricated, single drive, complete with 2306 discharge head column dia 5 1/2" 701 threaded, suction 5" 20, strainer cone type galvanized, size 150, 201 105, volts 230-460 1750, 3, 201 assembly 1 stage																												
FUND DISTRIBUTION PROJECT PRIORITY REQ. DEL. DATE							L M N O P Q R S																												
ADVICE							T U V																												
DOC. IDENT. ROUTING IDENT. M & S							DOLLARS CENTS																												
STOCK NUMBER							UNIT PRICE TOTAL PRICE																												
DOC. IDENT. ROUTING IDENT. M & S							FUND DISTRIBUTION PROJECT PRIORITY REQ. DEL. DATE ADV. STAT																												

930589043W011

41999A

193058  
water P/Lt (5988)

404

400001

14

67 68 69

3775

DOLLARS CENTS  
Atlantic, Ga. 31340

65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80



TT-31

2. PUMP, VERTICAL TURBINE, DEEP WELL,  
WATER LUBRICATED, SINGLE DRIVE,  
COMPLETE WITH 10 AC 6 DISCHARGE HEAD,  
COLUMN SIZE 5" X 90' THREADED,  
SUCTION, 5 X 10

STRAINER, CONE TYPE GALVANIZE

RPM, 150

TD.H. 105 Volts - 230-460

RPM 1750 Ph-3

BOILER ASSEMBLY 9 STAGE 5<sup>3/4</sup>" DIA.

COST \$3775.00

SS: THE GEORGE SEELE CO

3688 CLEARVIEW AVE.

ATLANTA GA 30340

3763

mat. typed  
2/8/99

3193

9043 W010 + 11 2-8-79

9058 W012 2-22-79

M93058-9043-W011

150 511 E 15 1011

2	4320-00-C99-1923, Pump, Crane Deming 8-stage, 6" Figure 4700, vertical turbine bowl assembly, for the above design conditions, water-lubricated, standard fitted with bronze impellers and enameled cast iron bowls, for 5" column and 1" shafting, with 4" threaded suction, and including the following:  A. Discharge head same as described above "a" B. As described above C. As described above D. As described above except seven (7) sections E. As described above except seven (7) sections F. As described above except 4" G. As described above except 4" H. As described above except 7½ HP and 230 volt	1	EA	\$3012.00	\$3,012.00
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INQUIRIES REGARDING THIS ORDER SHOULD BE MADE TO MRS. BATCHELOR (919-451-2186).





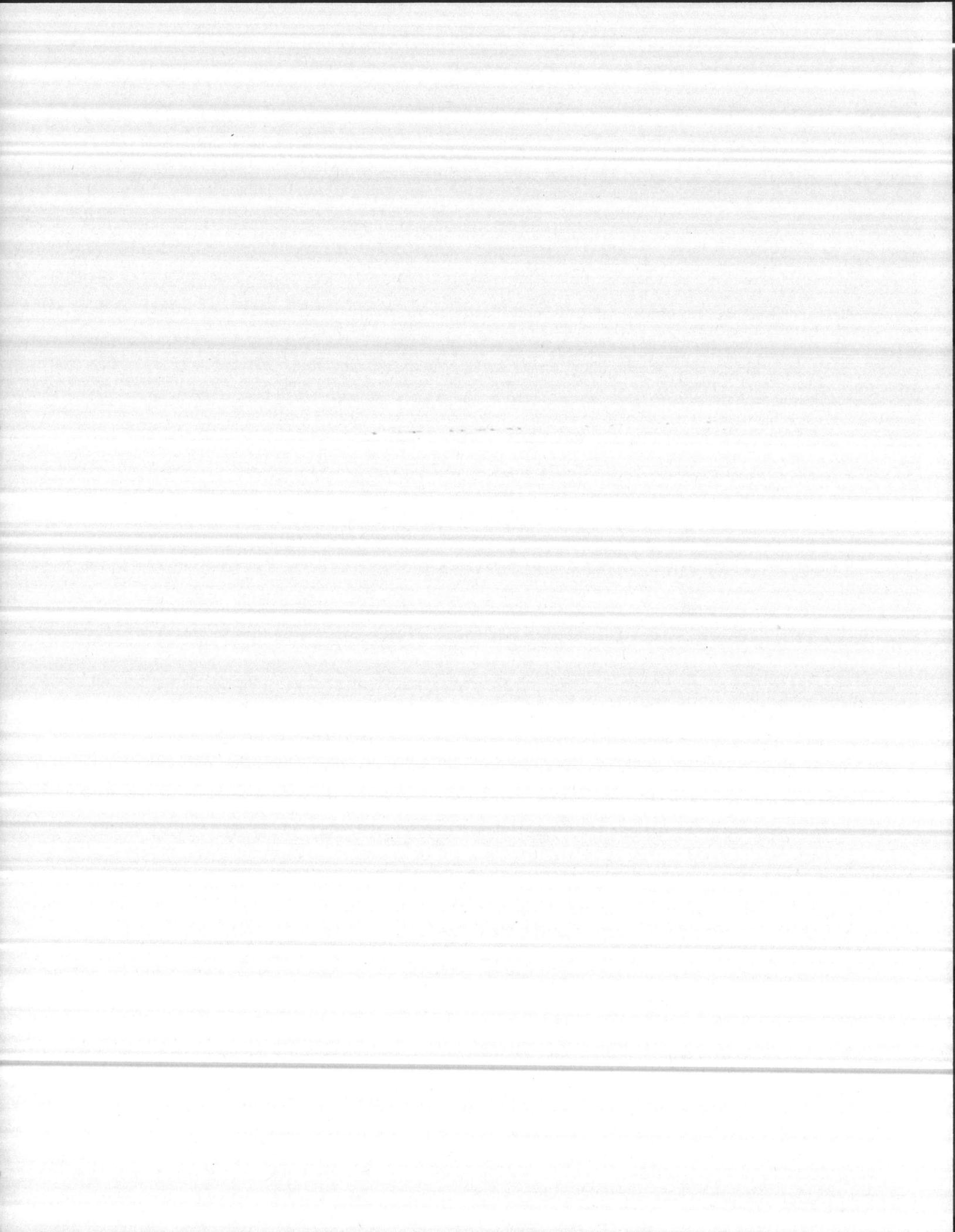
## FILE FOLDER

### DESCRIPTION ON TAB:

T.T. 52 Well #9

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- 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**



652-#9

100' TDH

66' BACK PRESS. SETTING

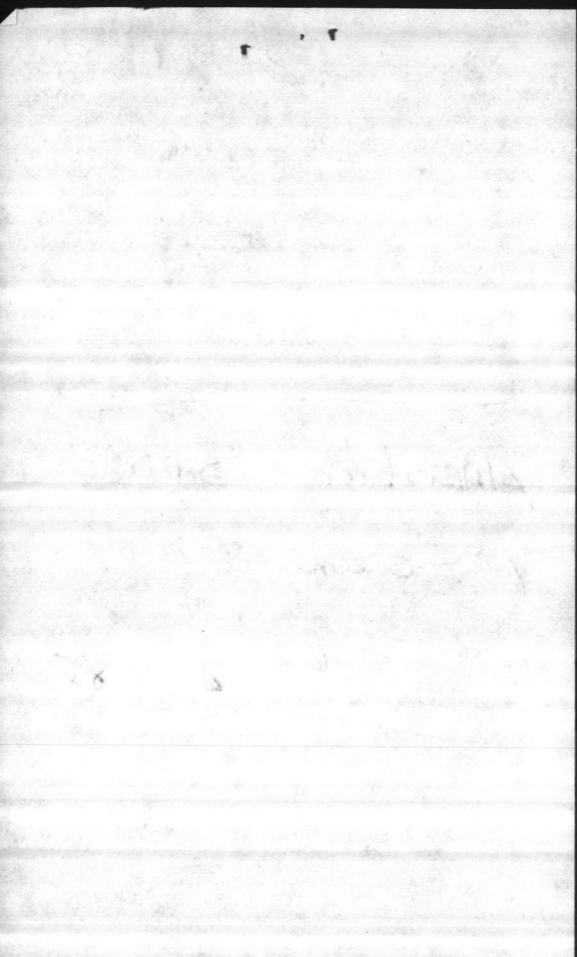
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HARTFIELD SAID

1 Screen at

42' To 62' 2-21-85

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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, 1968

1. AGENCY CODE MC	2. TYPE Q	3. LATITUDE 34 44 03 N	4. LONGITUDE 77 22 20 W	5.
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6. AGENCY STATION NO. TT32	7. STATION NAME TT38-9
-------------------------------	---------------------------

8. DRAINAGE BASIN CODE No. 6 Letter N	9. STATE CODE 32	10. COUNTY CODE 133	11. COUNTY NAME ONslow
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12. PERIOD OF RECORD Began 1951 Discontinued	Y <input type="checkbox"/> Continuous <input type="checkbox"/> Interruption Exceeds 1 Year	13.	14.
---	---	-----	-----

15. SITE <input type="checkbox"/> 101 Stream <input type="checkbox"/> 102 Canal	<input type="checkbox"/> 103 Lake <input type="checkbox"/> 104 Reservoir <input type="checkbox"/> 105 Estuary	<input type="checkbox"/> 106 Spring <input checked="" type="checkbox"/> 107 Well <input type="checkbox"/> 110 Other
---	---	---

16. FREQUENCY OF MEASUREMENT <input type="checkbox"/> 201 Continuous Recorder <input type="checkbox"/> 202 Telemetered	<input type="checkbox"/> 203 Daily <input type="checkbox"/> 204 Weekly <input type="checkbox"/> 205 Monthly <input type="checkbox"/> 206 Quarterly	<input type="checkbox"/> 207 Seasonal <input type="checkbox"/> 208 Annual <input type="checkbox"/> 209 Other Periodic <input checked="" type="checkbox"/> 210 Occasional
--	---	---

17. TYPES OF DATA AVAILABLE	Chemical	Organic
Physical <input type="checkbox"/> 311 Temperature <input type="checkbox"/> 312 Specific Conductance <input type="checkbox"/> 313 Turbidity <input type="checkbox"/> 314 Color <input type="checkbox"/> 315 Odor <input type="checkbox"/> 316 Radioactivity <input type="checkbox"/> 317 pH (field) <input checked="" type="checkbox"/> 318 pH (lab) <input type="checkbox"/> 319 Eh <input type="checkbox"/> 320 Other	<input type="checkbox"/> 331 Dissolved solids <input checked="" type="checkbox"/> 332 Chlorides Only <input type="checkbox"/> 333 Nutrients (Nitrogen and phosphorus compounds) <input type="checkbox"/> 334 Common ions <input checked="" type="checkbox"/> 335 Hardness <input type="checkbox"/> 336 Radiochemical <input type="checkbox"/> 337 Dissolved oxygen <input type="checkbox"/> 338 Other Gases <input type="checkbox"/> 339 Other	<input type="checkbox"/> 351 Pesticides (insecticides, herbicides, etc.) <input type="checkbox"/> 352 Synthetic detergents <input type="checkbox"/> 353 Other Biologic <input type="checkbox"/> 361 Coliforms <input type="checkbox"/> 362 Other Micro-organisms <input type="checkbox"/> 363 BOD <input type="checkbox"/> 364 Other Sediment <input type="checkbox"/> 371 Concentration <input type="checkbox"/> 372 Particle size <input type="checkbox"/> 373 Other

18. SUPPLEMENTARY DATA FOR SITE <input type="checkbox"/> 421 Surface Water Station <input type="checkbox"/> 422 Ground Water Station	<input type="checkbox"/> 423 Water Stage or Level <input checked="" type="checkbox"/> 424 Water discharge	<input type="checkbox"/> 425 Time of Travel <input type="checkbox"/> 426 Drainage Area
--	--	---

19. STORAGE OF DATA <input type="checkbox"/> 501 Periodic Report <input type="checkbox"/> 502 Areal Report	<input checked="" type="checkbox"/> 503 Not Published <input type="checkbox"/> 504 Data on Punchcard	<input type="checkbox"/> 505 Data on Magnetic Tape <input type="checkbox"/> 506 Other
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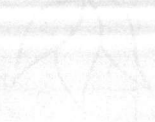
20. OFFICE AT WHICH DATA AVAILABLE Office BASE MAINTENANCE DEPARTMENT Street No. MARINE CORPS BASE City, State, Zip CAMP LEJEUNE, N. C. 28542	City Code 0735
--	-------------------

21. OFFICE COMPLETING FORM BASE MAINTENANCE DEPARTMENT
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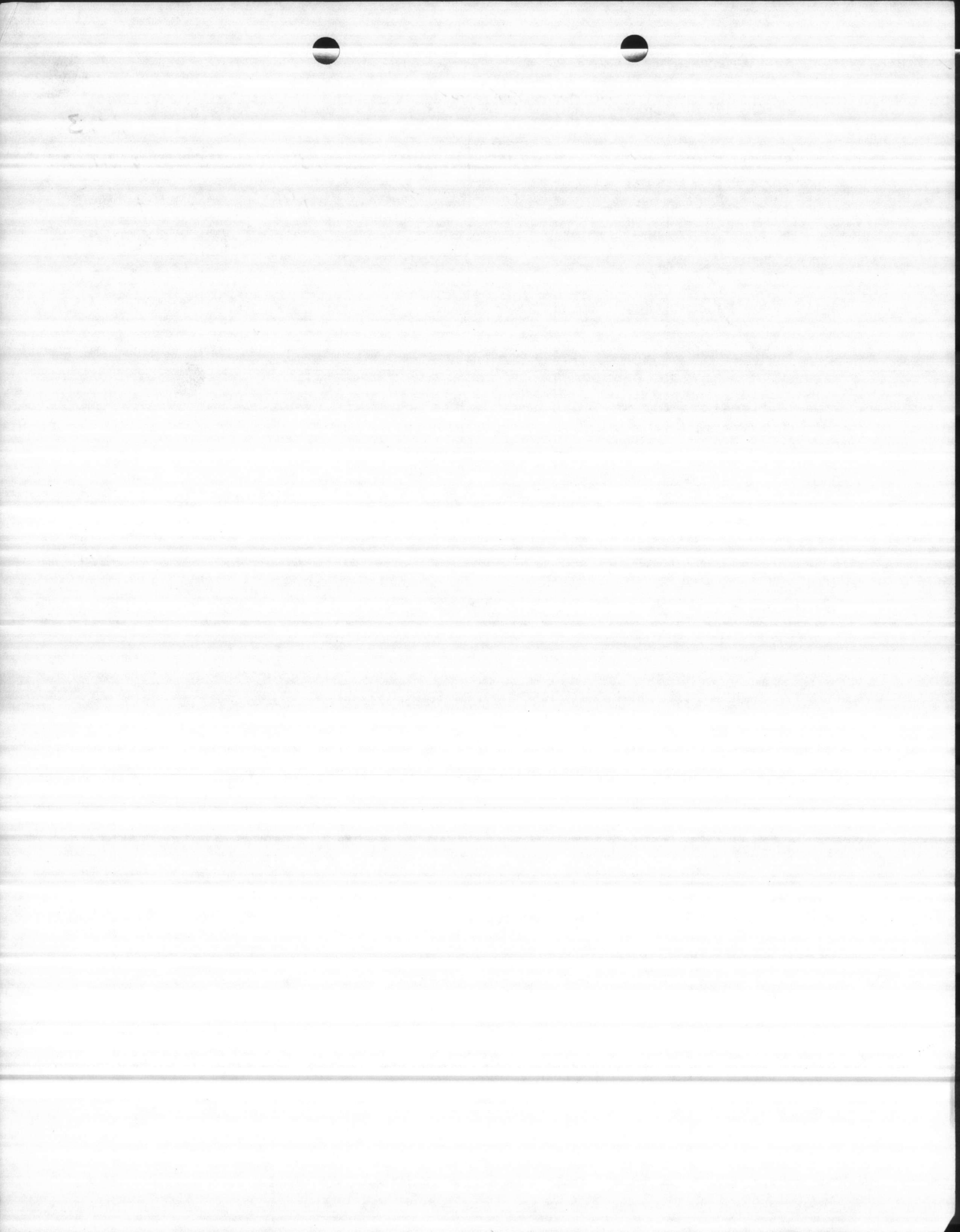
22. COMPILER'S NAME P. E. TEL, JR.	23. DATE Month Year 19 66
---------------------------------------	---------------------------------



6



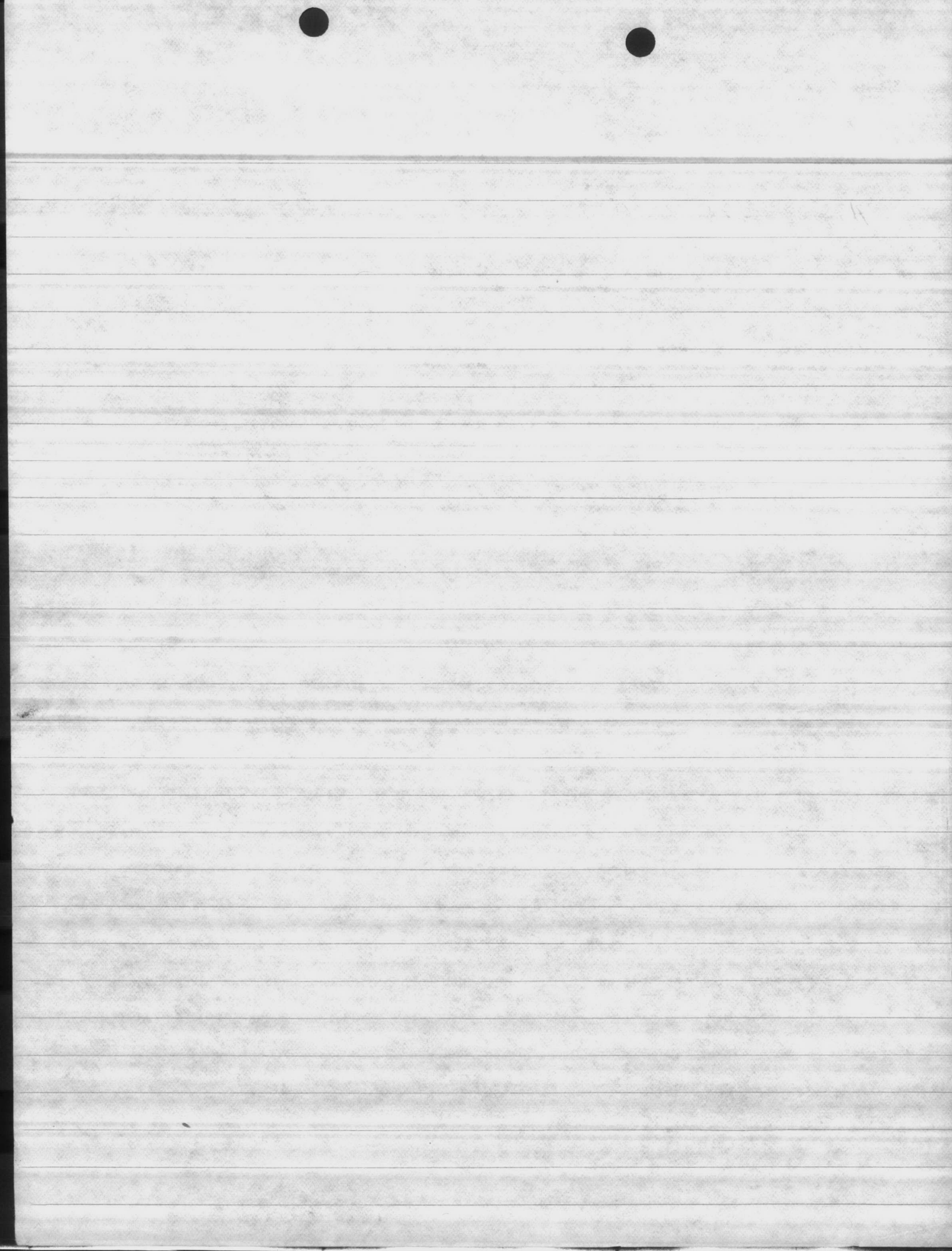






TT 52  
9-11-85

AIL	S/L	P/L	D/D	G PM	Psi	Time
50	22	28	6	104	25	15
		31	9	128	22	15
		34	12	201	19	15
		40	18	236	15	15



TT 52

LENGTH  
OF  
AIR LINE

STATIC  
LEVEL.

PUMPING  
LEVEL.

DRAW  
DOWN

DISCHARGE  
PRESSURE

CAP. PER  
FOOT OF  
DISCH. TUBE  
1/2" M

TOTAL  
CAP.

DATE

9-14-82

50

36

42

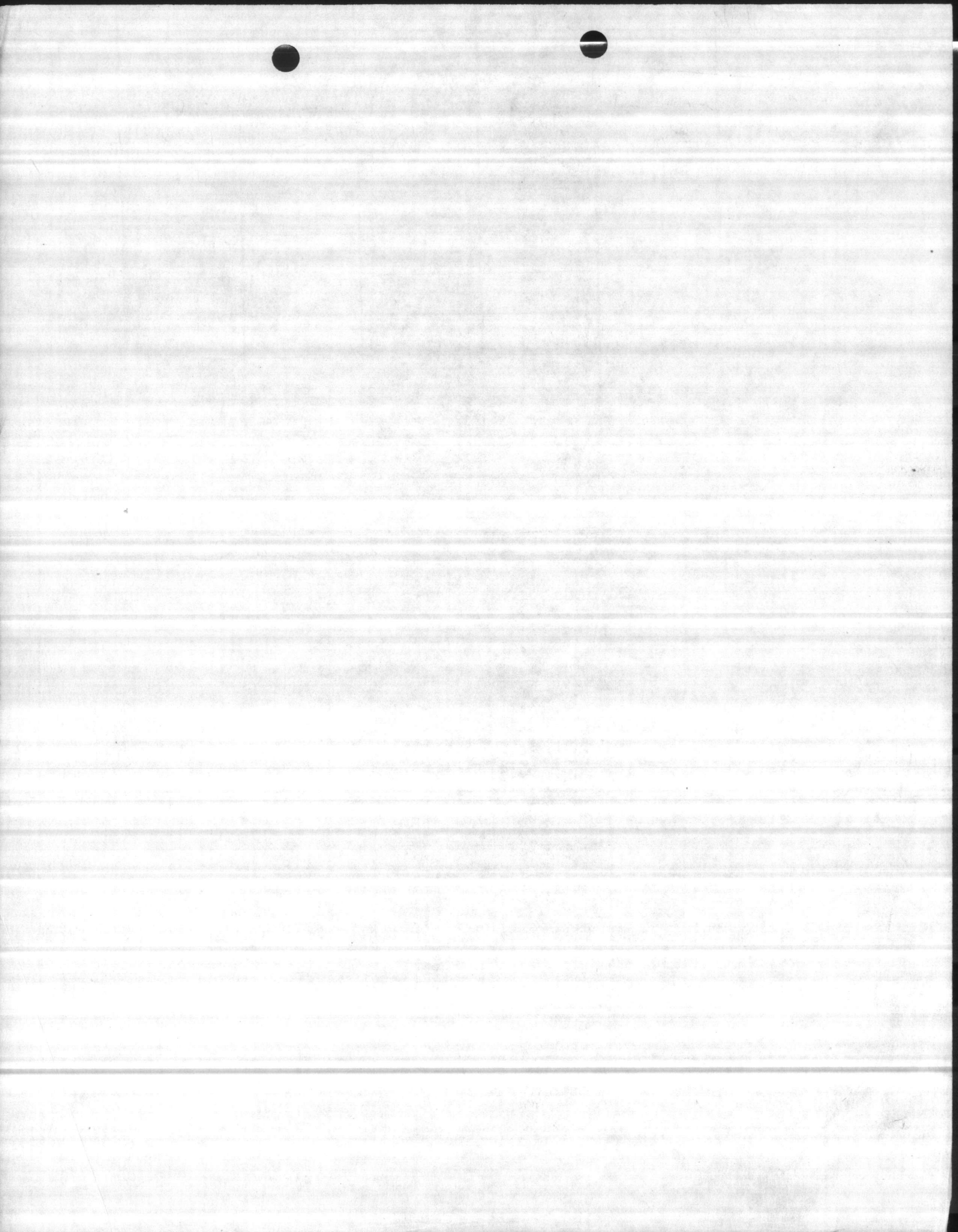
6

23

12.8

REMARKS:

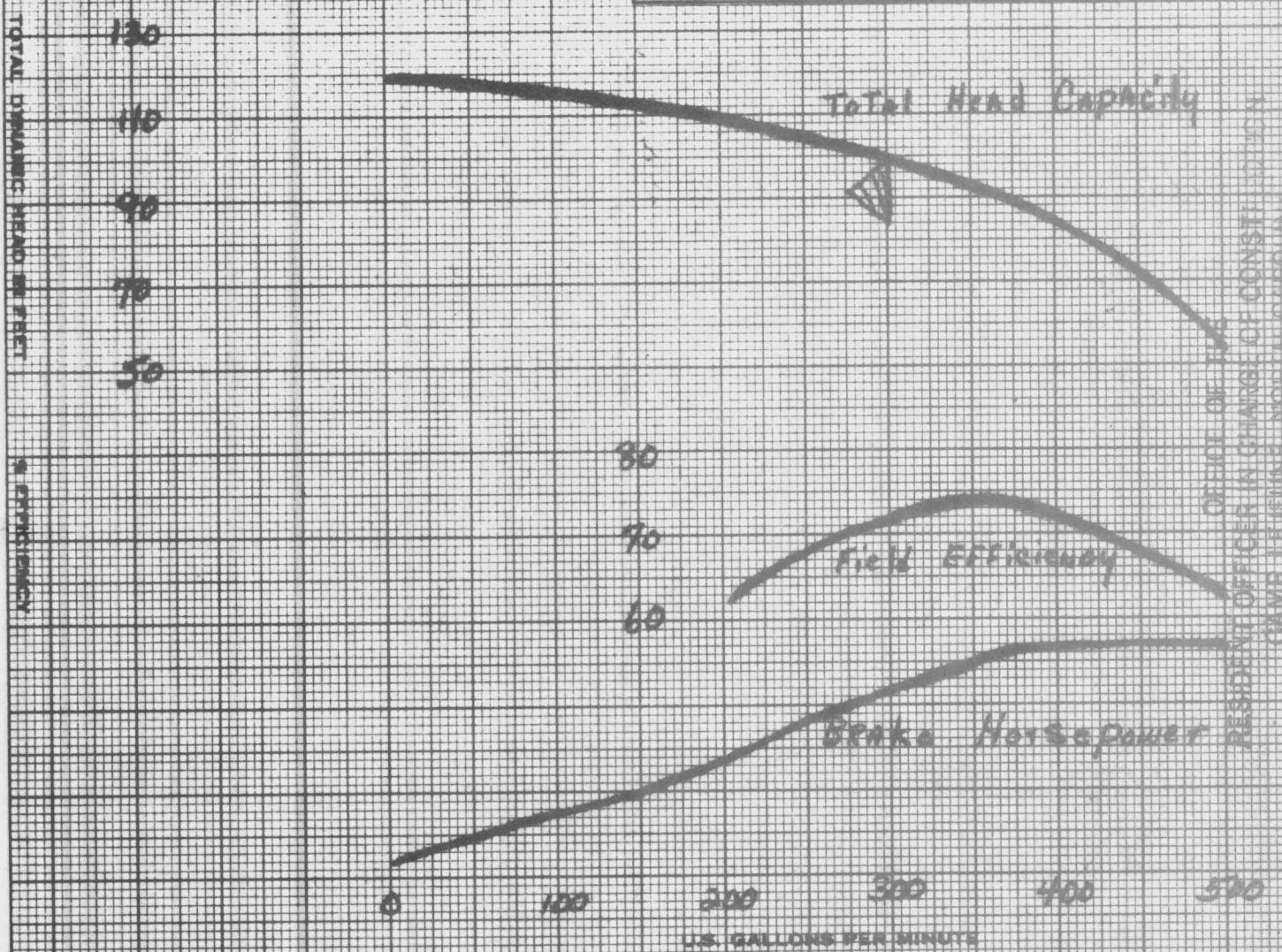
*used direct read in gage*



Well # 9-A.

NOTE: All COLUMN LOSSES ARE INCLUDED

JOHNSTON REF. NO. S-863 JS 6235  
 DEALER: Harts Field Water Co INC REF. NO. \_\_\_\_\_  
 CUSTOMER: Marine Corps. LeJeune REF. NO. NBY-36996



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

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS


CONTRACT NO. 10AC II  
1760

JOHNSTON PUMP CO.  
 DIVISION OF YOUNGSTOWN SHEET & TUBE

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 BRZ DIA. \_\_\_\_\_  
 BOWLS C.F. - V.T.  
 LIQUID Water  
 SP. GR. 1.0  
 DATE: 6-7-61 BY: REC

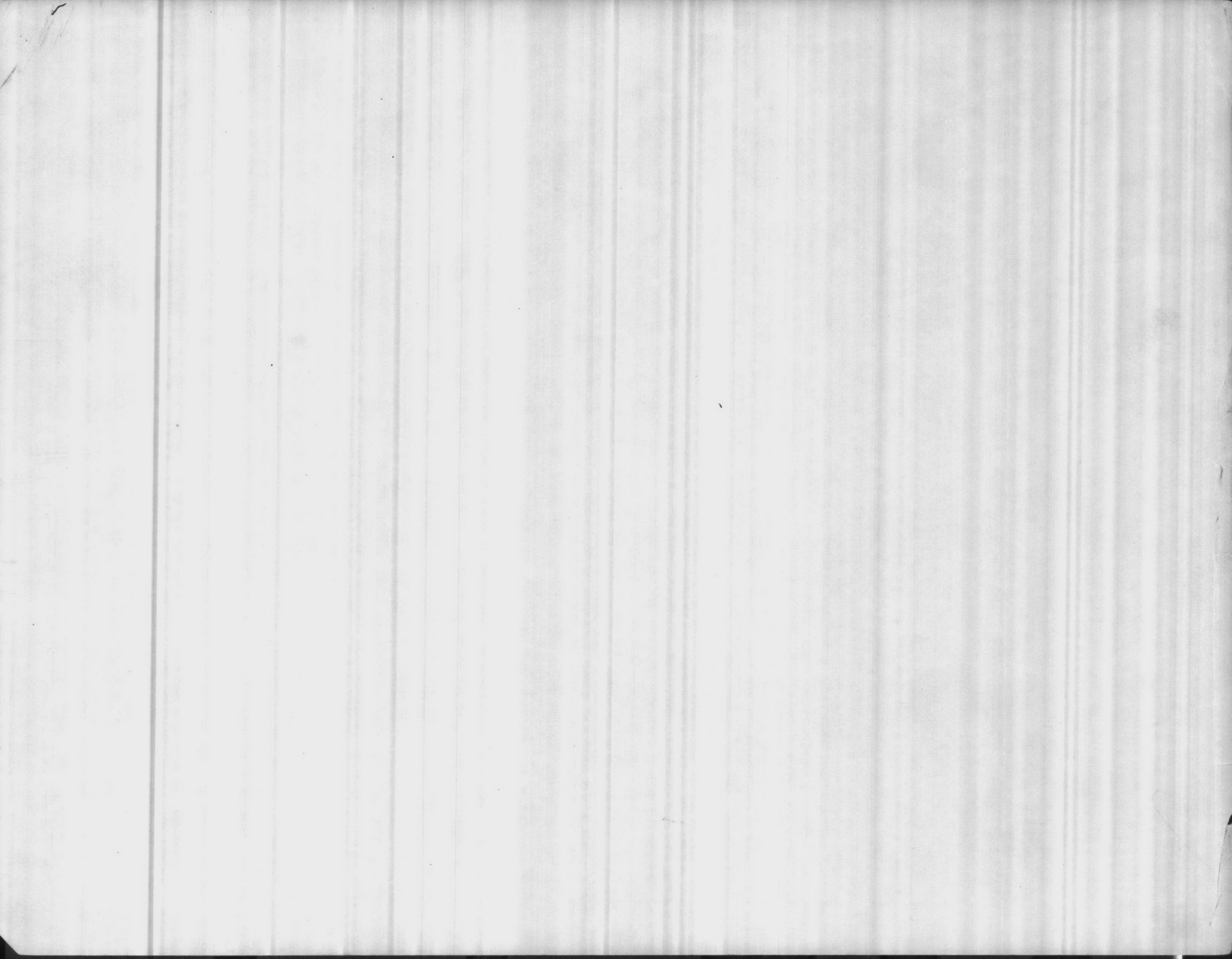
**JOHNSTON PUMP CO.**  
 DIVISION OF YOUNGSTOWN SHEET & TUBE



**VERTICAL PUMPS**  
 50TH YEAR 1909-1959

PASADENA • CALIFORNIA • U.S.A.

PERFORMANCE 2 STAGE  
10AC II Turbine  
1760 R.P.M.  
 PUMP



# Recovery of well # 9-A

1. min after cut off. ~~water level~~ water level 48'

2. " " " " " " " " 40'

3. " " " " " " " " 35'

4. " " " " " " " " 30'

5. " " " " " " " " 25'

7. mins - - - - - 23'

9. mins - - - - - 21'

11. mins - - - - - 19'

13. mins - - - - - 17'

15. mins - - - - - 15'

20 mins - - - - - 13' 6"

25 mins - - - - - 13' 6"

30 " " - - - - - 13' 6"

35 " " - - - - - 13' 6"

45 " " - - - - - 13' 6"

55 " " - - - - - 13' 6"

65 " " - - - - - 13' 6"

## 2nd hour

15 mins - - - - - 13' 1"

30 mins - - - - - 13' 1"

45 " - - - - - 13' 1"

60 " - - - - - 13' 1"

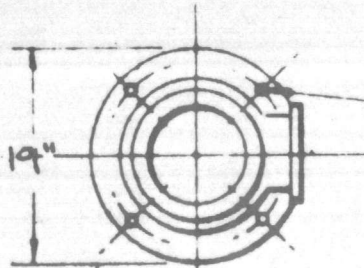
## 3rd hour

12' 3"

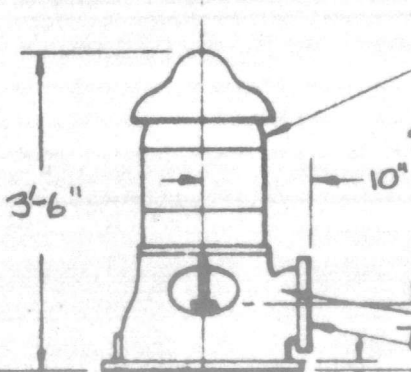
150 GPM AT 115'



# JOHNSTON VERTICAL TURBINE PUMP

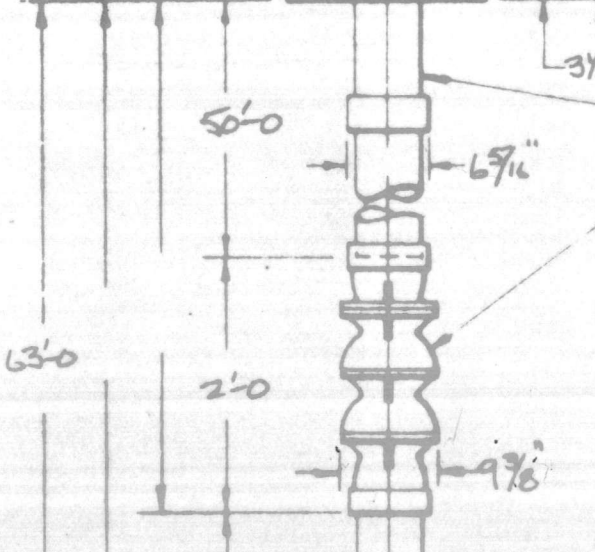


4  $\frac{5}{8}$ " DIA. HOLES ON  $1\frac{3}{4}$ " B. C.



G.E.  
 VERTICAL FELLOW SHAFT MOTOR  
 15 HP 3 PHASE 60 CYCLE  
~~240 220~~ 1800 RPM  
 TEFC ENCLOSURE

12x6 TYPE "A" DISCHARGE HEAD  
 6 x 16 1/2" FLANGE



5x2x1 7/16 COLUMN ASSEMBLY  
 2 STAGE 10ACT II BOWL ASSEMBLY

CONDITIONS  
 300 US GPM  
 100 FT. TOTAL HEAD  
 LIQUID WATER  
 SPEC. GRAVITY 1.0 PUMPING TEMP.

5" SUCTION PIPE 5" CONE STRAINER

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

## APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NBY 36996 SPEC. NO. 36996/61  
 DATE: NOV 15 1961

W. W. MOORE, JR.  
 CAPT, CEC, USN  
 Resident Officer in  
 Charge of Construction

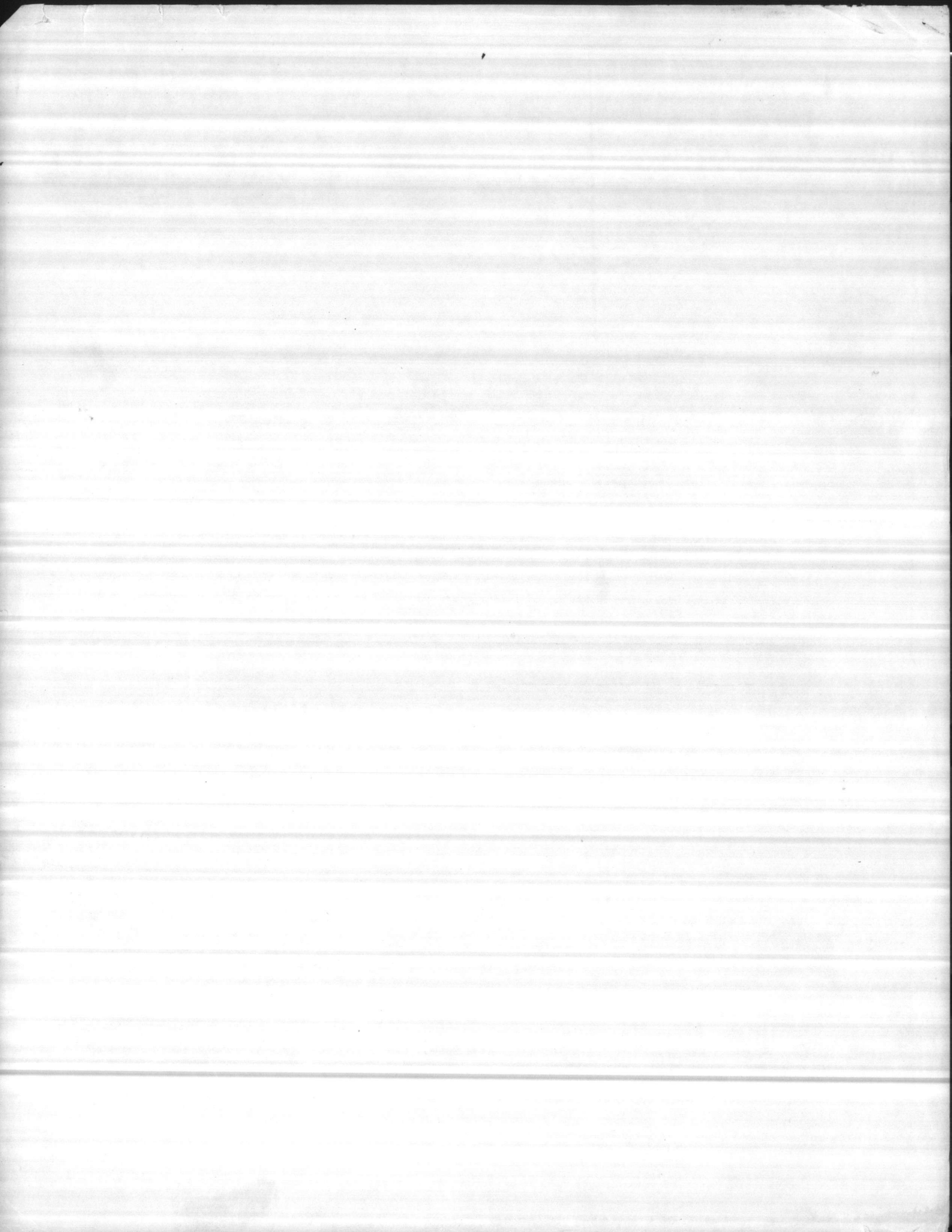
CUSTOMER MARINE CORPS BASE  
POI NBY-36996  
 DEALER HARTSFIELD WATER CO  
 PUP  
 JOHNSTON SERIAL # JS-6235  
 JOHNSTON QUOTATION # S-253

NOTE: DO NOT USE FOR CONSTRUCTION  
 UNLESS CERTIFIED

JOHNSTON PUMP COMPANY  
 PASADENA, CALIFORNIA

REC 146-61

H-1253-A



HARTSFIELD WATER COMPANY, INC.

Winston, N.C.

Phone JA 3-6007

FINAL TEST RECORD

WELL NO. 9-A

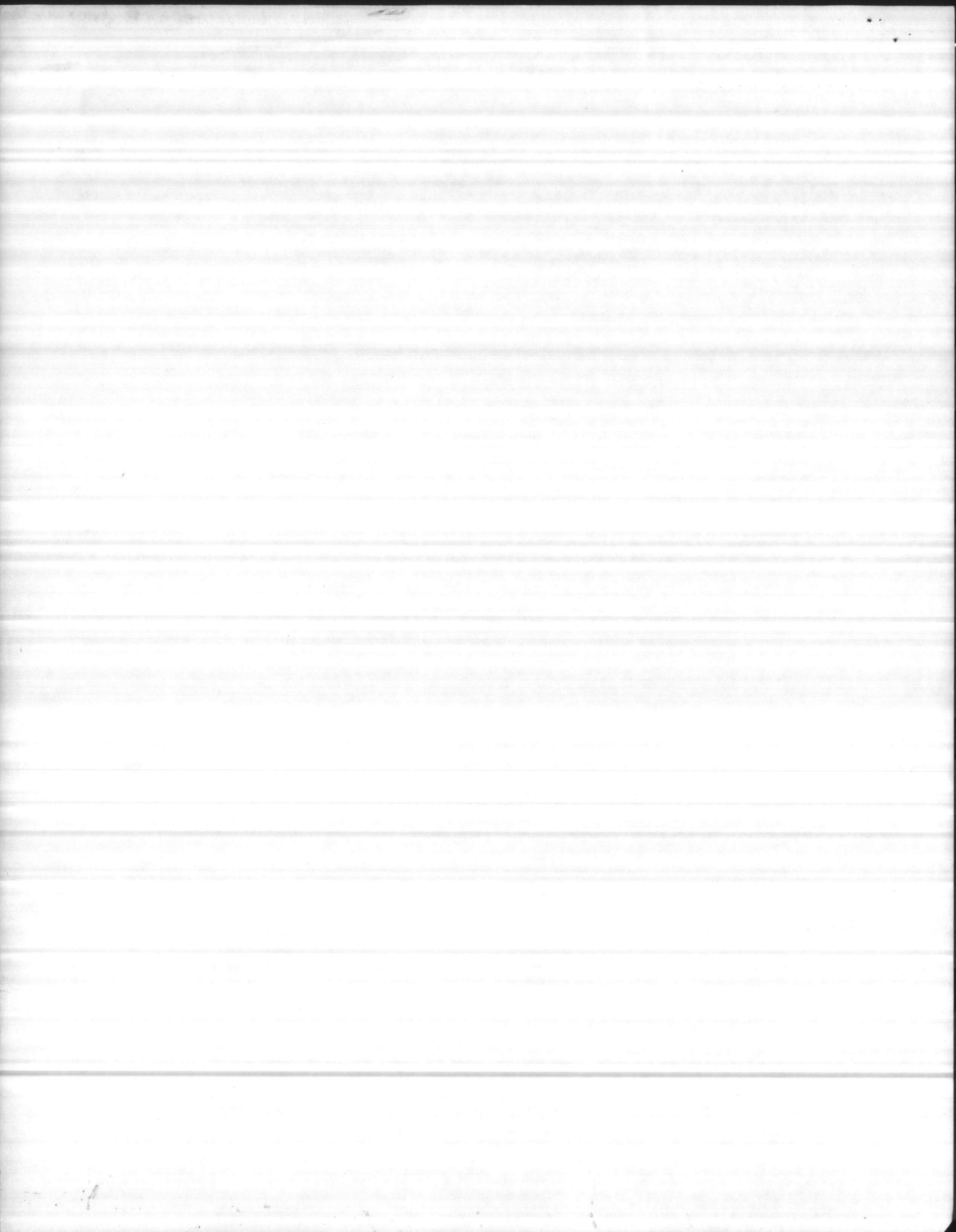
WELL FOR Terawa Terrace

DESIRED FLOW 300 G.P.M.

ADDRESS Camp Terawa

TEST \_\_\_\_\_

DATE	TIME	G.P.M.	DRAWDOWN	WATER LEVEL	REMARKS
Oct. 17	10:00	234	15	27	Station level 12' from G.L.
	11:00	234	15	27	
	12:00	234	15	27	gauge reading 19' off 4' = 23'
	1:00	234	15	27	
	2:00	234	15	27	reading 19' add 4' 23'
	3:00	234	15	27	
	4:00	234	15	27	started pump 348 G.P.M. at 4:00 P.M.
	5:00	348	25	37	
	6:00	348	25	37	
	7:00	348	25	37	started pumping 450 G.P.M. at 10:00 P.M.
8:00	348	25	37		
9:00	348	25	37		
10:00	348	25	37		
11:00	450	35	47		
12:00	450	35	47		
Oct. 18	1:00	450	35	47	
	2:00	450	35	47	
	3:00	450	35	47	
	4:00	450	35	47	
	5:00	450	35	47	
	6:00	450	35	47	
	7:00	450	35	47	
	8:00	450	35	47	
	9:00	450	35	47	
	10:00	450	35	47	



HARTSFIELD WATER COMPANY, INC.  
 Kinston, N. C.  
 Phone JA 3-6007

FINAL TEST RECORD

WELL NO. 9-A

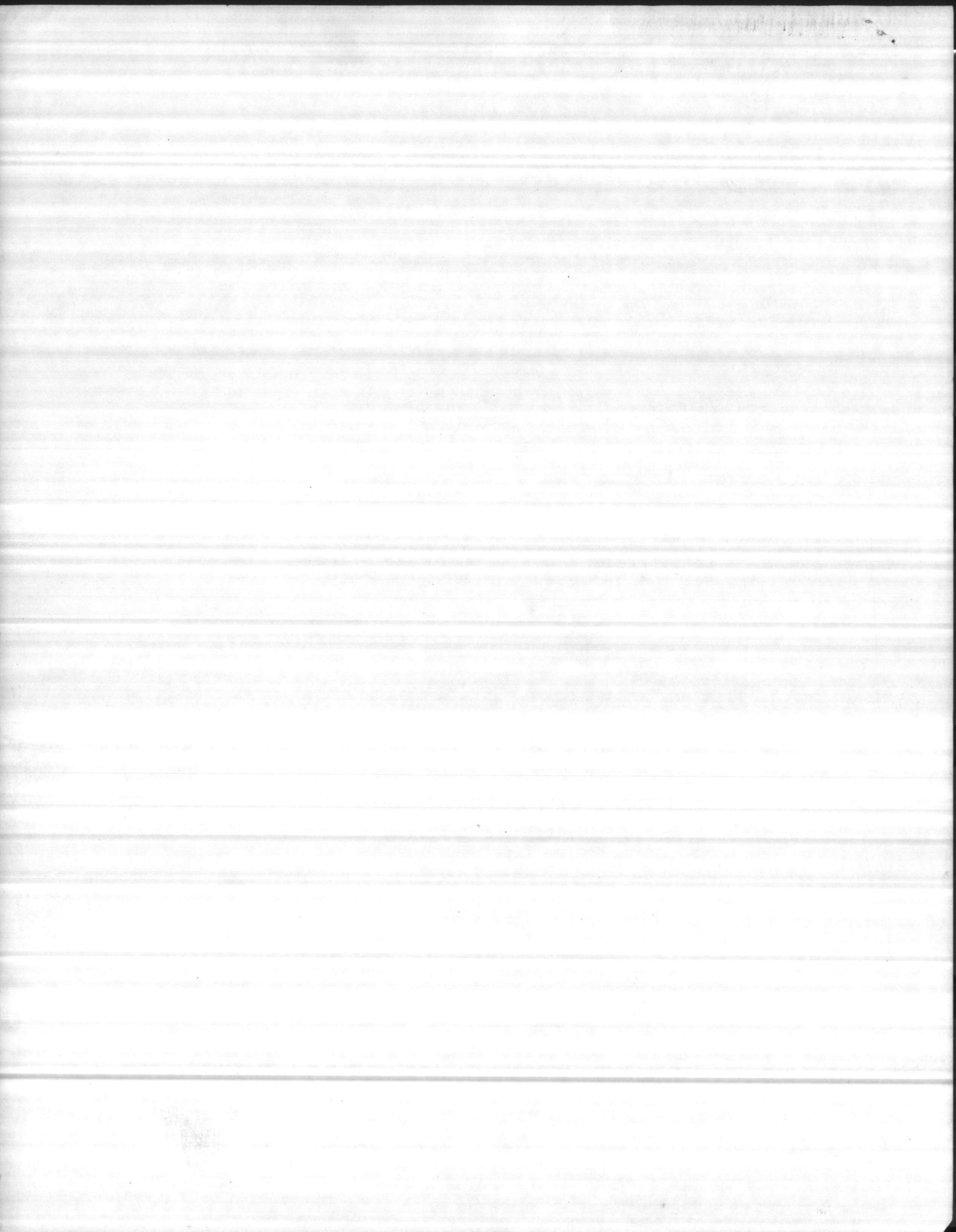
WELL FOR Tasawa Terrace

DESIRED FLOW 300 G.P.M.

ADDRESS Camp Lejeune N.C.

TEST 15' D.D. 25' D.D. 35' D.D. 45' D.D.

DATE	TIME	G.P.M.	DRAWDOWN	WATER LEVEL	REMARKS
Oct. 18.	11:00	520	45	57	Started 45' down down at 10:00 this morning
	12:00	520	45	57	
	1:00	520	45	57	
	2:00	520	45	57	
	3:00	520	45	57	
	4:00	520	45	57	
	5:00	520	45	57	
	6:00	520	45	57	
	7:00	520	45	57	
	8:00	520	45	57	
	9:00	520	45	57	
	10:00	520	45	57	
	11:00	520	45	57	
	12:00	520	45	57	
	1:00	520	45	57	
	2:00	520	45	57	
	3:00	520	45	57	
	4:00	520	45	57	
	5:00	520	45	57	
	6:00	520	45	57	
	7:00	520	45	57	
	8:00	520	45	57	
	9:00	520	45	57	
	10:00	520	45	57	



## FILE FOLDER

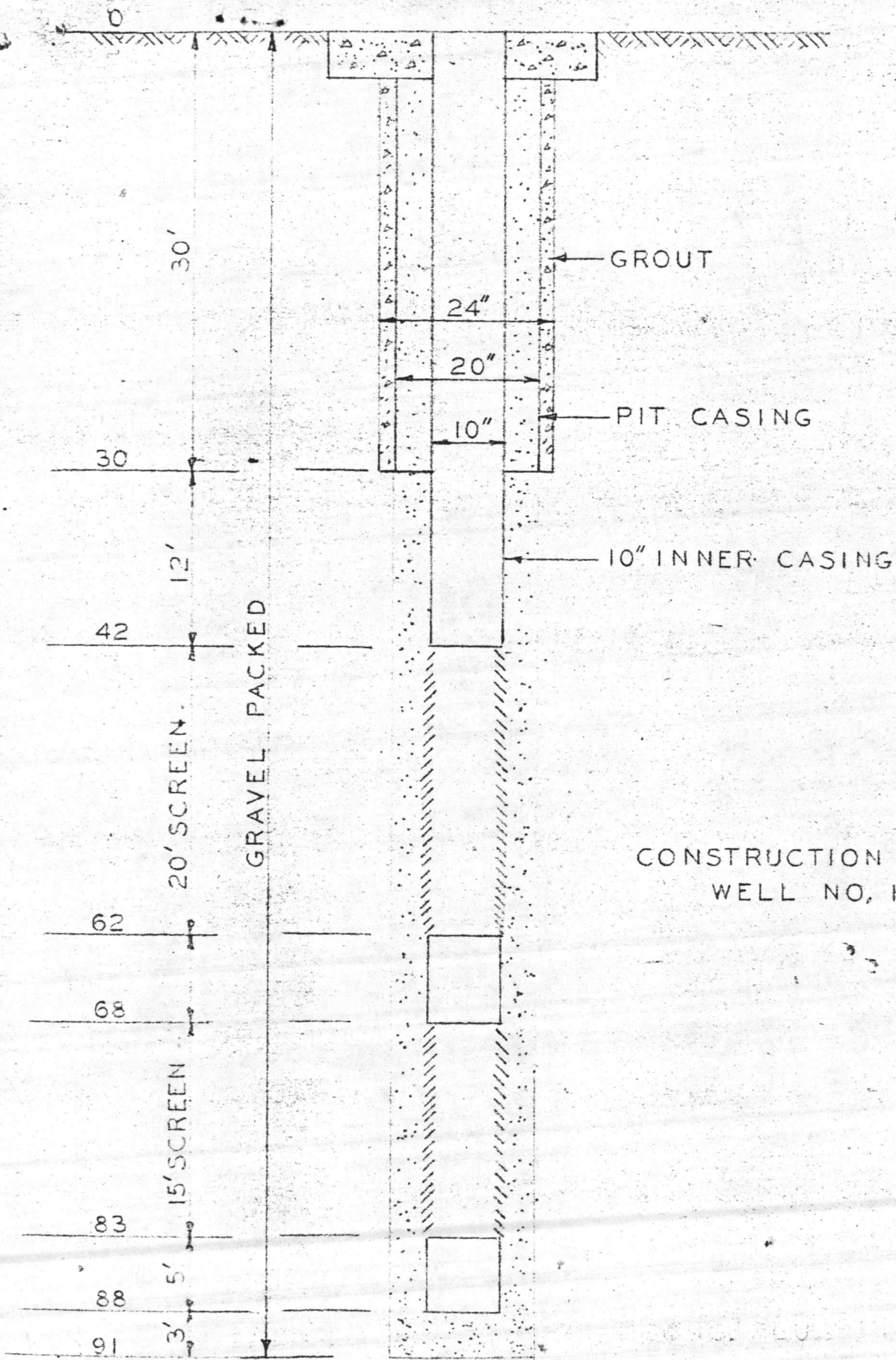
### DESCRIPTION ON TAB:

TT 53

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CONSTRUCTION DETAILS  
WELL NO. 10

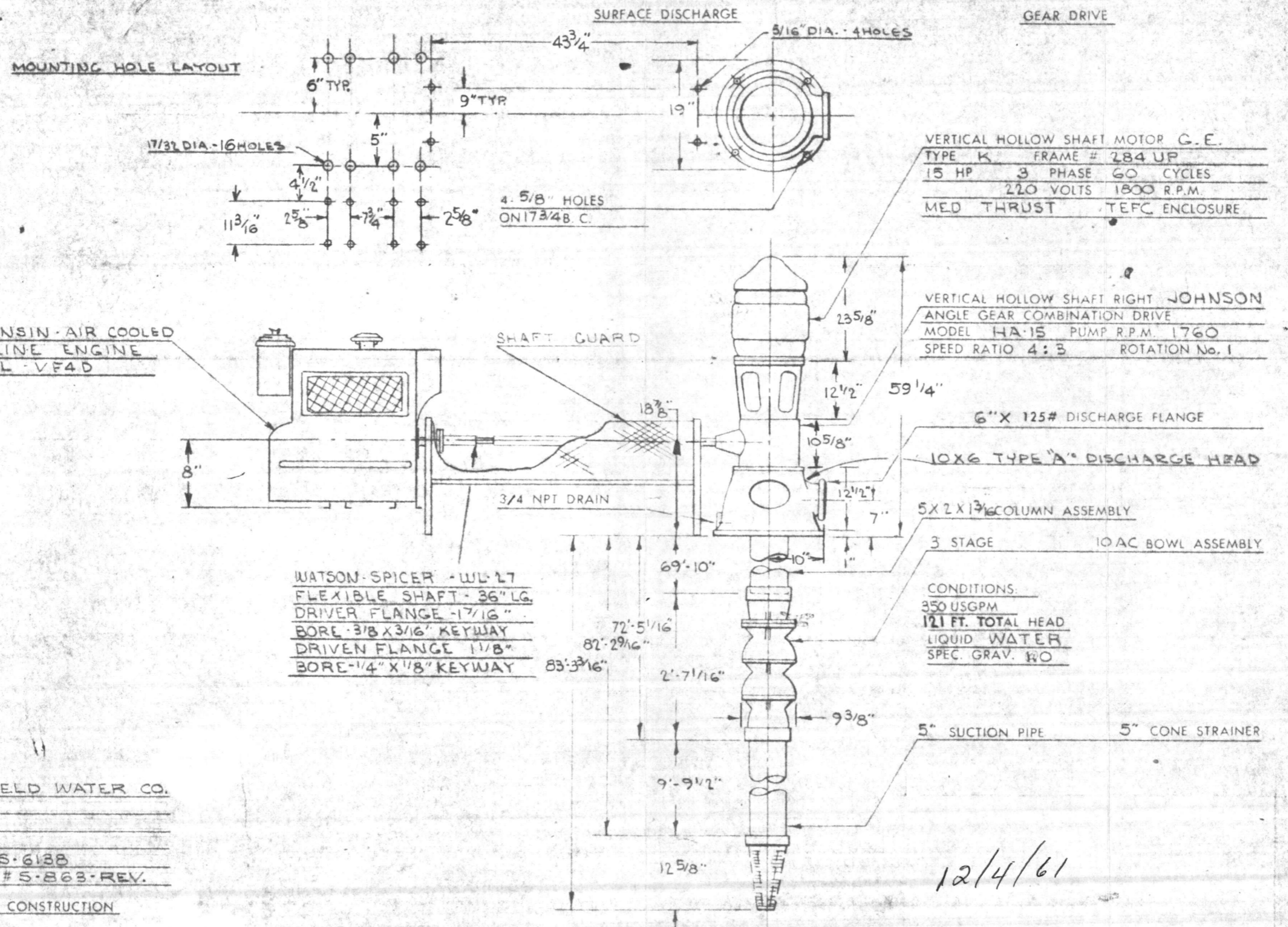
ADDITIONAL WATER WELLS  
TARAWA TERRACE

CONTRACT NB 36996

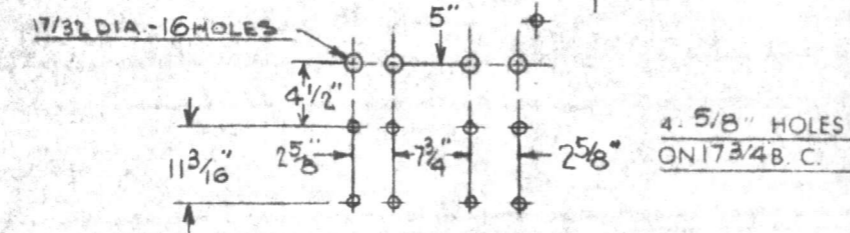




# JOHNSTON VERTICAL TURBINE PUMP



MOUNTING HOLE LAYOUT



SURFACE DISCHARGE

GEAR DRIVE

VERTICAL HOLLOW SHAFT MOTOR G.E.  
 TYPE K FRAME # 284 UP  
 15 HP 3 PHASE 60 CYCLES  
 220 VOLTS 1800 R.P.M.  
 MED THRUST TEFC ENCLOSURE

VERTICAL HOLLOW SHAFT RIGHT JOHNSON  
 ANGLE GEAR COMBINATION DRIVE  
 MODEL HA-15 PUMP R.P.M. 1760  
 SPEED RATIO 4:3 ROTATION No. 1

WISCONSIN - AIR COOLED  
 GASOLINE ENGINE  
 MODEL - VF4D

WATSON-SPICER - WL-27  
 FLEXIBLE SHAFT - 36" LG.  
 DRIVER FLANGE - 1 7/16"  
 BORE - 3/8" X 3/16" KEYWAY  
 DRIVEN FLANGE 1 1/8"  
 BORE - 1/4" X 1/8" KEYWAY

CONDITIONS:  
 350 USGPM  
 121 FT. TOTAL HEAD  
 LIQUID WATER  
 SPEC. GRAV. 1.00

CUSTOMER HARTSFIELD WATER CO.  
 PO#  
 DEALER  
 PO#  
 JOHNSTON SERIAL # JS-6138  
 JOHNSTON QUOTATION # 5-863-REV.

NOTE: DO NOT USE FOR CONSTRUCTION  
 UNLESS CERTIFIED

12/4/61

JOHNSTON PUMP COMPANY  
 PASADENA, CALIFORNIA

PART NUMBER	MATERIAL	PATTERN NUMBER	DRAWING NUMBER	H-2197-B
SCALE	NONE	DATE	11-17-61	
		TOOLING	WJ	CHECKED
		DRAWN	WJ	APPROVED
		CHECKED	GWS	11-17-61
		APPROVED		
VERTICAL TURBINE PUMP - GEAR DRIVE - GASOLINE ENGINE				
PASADENA, CALIF., U.S.A.				
NO.	REVISIONS	BY	DATE	

✓

## FILE FOLDER

### DESCRIPTION ON TAB:

T.T. 54 Well # 11

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- 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

654- # 11

200 GPM.

110' TDH.

3960 X 6570 EFF.

8.55 H.P.

MIN. 10 H.P.



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, 1968

1. AGENCY CODE <b>MC</b>	2. TYPE <b>Q</b>	3. LATITUDE <b>° 34 ' 44 " 02 N</b>	4. LONGITUDE <b>° 77 ' 22 " 02 W</b>	5.
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6. AGENCY STATION NO. <b>TT54</b>	7. STATION NAME <b>TT38-11</b>
--------------------------------------	-----------------------------------

8. DRAINAGE BASIN CODE <b>No. 6 Letter</b>	9. STATE CODE <b>32</b>	10. COUNTY CODE <b>133</b>	11. COUNTY NAME <b>ONSLow</b>
---	----------------------------	-------------------------------	----------------------------------

12. PERIOD OF RECORD <b>Began 1961</b> <b>Discontinued</b>	Y <input type="checkbox"/> Continuous Interruption Exceeds 1 Year	13.	14.
---	---	-----	-----

15. SITE	<input type="checkbox"/> 101 Stream	<input type="checkbox"/> 103 Lake	<input type="checkbox"/> 106 Spring
<input type="checkbox"/> 102 Canal	<input type="checkbox"/> 104 Reservoir	<input checked="" type="checkbox"/> 107 Well	<input type="checkbox"/> 110 Other
	<input type="checkbox"/> 105 Estuary		

16. FREQUENCY OF MEASUREMENT	<input type="checkbox"/> 201 Continuous Recorder	<input type="checkbox"/> 203 Daily	<input type="checkbox"/> 207 Seasonal
<input type="checkbox"/> 202 Telemetered	<input type="checkbox"/> 204 Weekly	<input type="checkbox"/> 205 Monthly	<input type="checkbox"/> 208 Annual
	<input type="checkbox"/> 206 Quarterly	<input checked="" type="checkbox"/> 210 Occasional	<input type="checkbox"/> 209 Other Periodic

17. TYPES OF DATA AVAILABLE	<i>Physical</i>	<i>Chemical</i>	<i>Organic</i>
<input type="checkbox"/> 311 Temperature	<input type="checkbox"/> 331 Dissolved solids	<input type="checkbox"/> 351 Pesticides (insecticides, herbicides, etc.)	
<input type="checkbox"/> 312 Specific Conductance	<input checked="" type="checkbox"/> 332 Chlorides Only	<input type="checkbox"/> 352 Synthetic detergents	
<input type="checkbox"/> 313 Turbidity	<input type="checkbox"/> 333 Nutrients (Nitrogen and phosphorus compounds)	<input type="checkbox"/> 353 Other	
<input type="checkbox"/> 314 Color	<input type="checkbox"/> 334 Common ions	<i>Biologic</i>	
<input type="checkbox"/> 315 Odor	<input checked="" type="checkbox"/> 335 Hardness	<input type="checkbox"/> 361 Coliforms	
<input type="checkbox"/> 316 Radioactivity	<input type="checkbox"/> 336 Radiochemical	<input type="checkbox"/> 362 Other Micro-organisms	
<input type="checkbox"/> 317 pH (field)	<input type="checkbox"/> 337 Dissolved oxygen	<input type="checkbox"/> 363 BOD	
<input checked="" type="checkbox"/> 318 pH (lab)	<input type="checkbox"/> 338 Other Gases	<input type="checkbox"/> 364 Other	
<input type="checkbox"/> 319 Eh	<input type="checkbox"/> 339 Other	<i>Sediment</i>	
<input type="checkbox"/> 320 Other		<input type="checkbox"/> 371 Concentration	
		<input type="checkbox"/> 372 Particle size	
		<input type="checkbox"/> 373 Other	

18. SUPPLEMENTARY DATA FOR SITE	<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	

19. STORAGE OF DATA	<input type="checkbox"/> 501 Periodic Report	<input checked="" type="checkbox"/> 503 Not Published	<input type="checkbox"/> 505 Data on Magnetic Tape
<input type="checkbox"/> 502 Areal Report	<input type="checkbox"/> 504 Data on Punchcard	<input type="checkbox"/> 506 Other	

20. OFFICE AT WHICH DATA AVAILABLE	<b>BASE MAINTENANCE DEPARTMENT</b>	
Office	_____	
Street No.	<b>MARINE CORPS BASE</b>	
City, State, Zip	<b>CAMP LEJUNE, N. C. 28542</b>	City Code <b>0735</b>

21. OFFICE COMPLETING FORM	<b>BASE MAINTENANCE DEPARTMENT</b>
----------------------------	------------------------------------

22. COMPILER'S NAME	23. DATE
<b>F. E. TEW, JR.</b>	Month <b>09</b> Year <b>1966</b>

KA



KA



Well # 11 Bldg. TF-54

- 1 ea Check Valve 6" Mueller 175 WP  
1 ea Gate " " " " 350 test  
1 ea Gate " 4" " " "  
1 ea Air Release " Mueller Mfg. Co. Berwick, Pa.  
1 ea Back Pressure Valve Ross Valve  
Model. 50 RWR, SERIAL 61504  
Ross Valve Mfg. Co. Inc. Troy, N.Y.
- 

Booster Station Bldg. D-39

2 ea Gate Valves 8" No NAME  
200 W

1 ea Back Pressure 8" GAVSCO  
150 WSP

~~done~~

38  
240

TT-38

done

Spirator —

1 ea Check Valve 8"

Chapman ✓

1 ea Gate " 8"

Mueller ✓

1 ea " 4"

Nordstrom

stop waste  
Catalyst  
(for hauling)

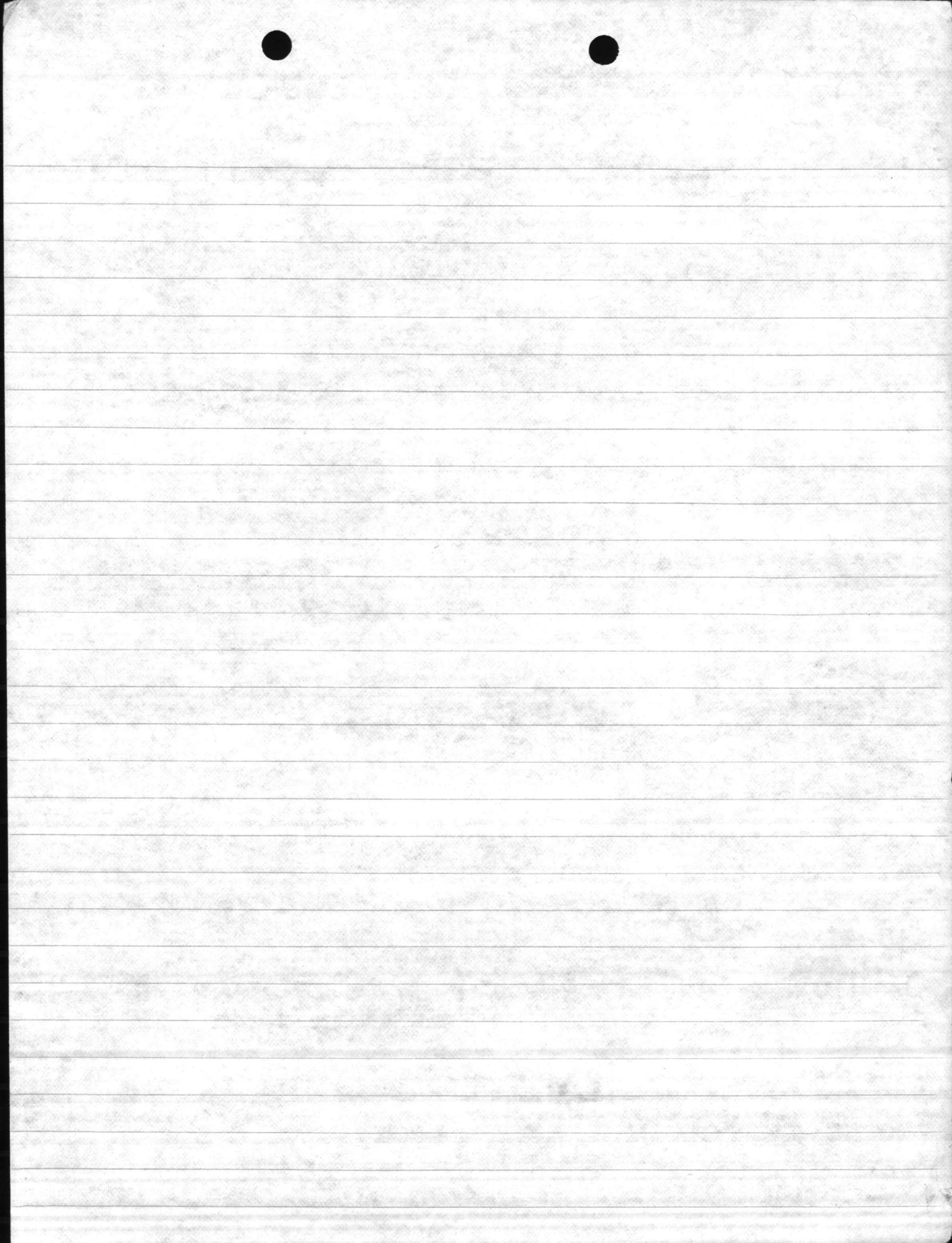
1 ea Gate " 2"

for high pressure

1 ea Gate " 8"

Mueller ✓

cut off water  
going to api.



TT54

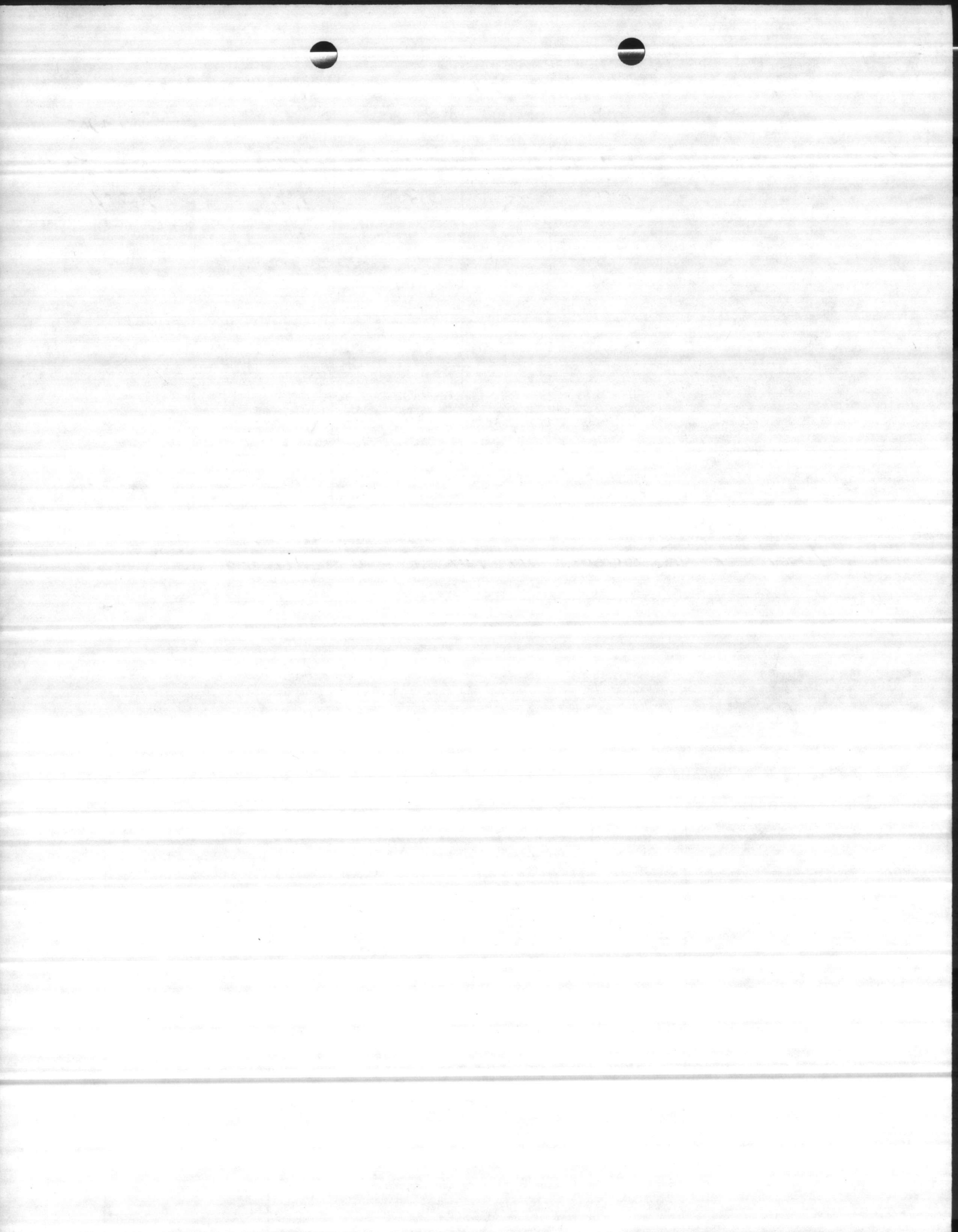
9-13-85

A-L	S-L	P-L	D-D	G Pm	Psi	Time
65'	32	44	12	104	40	15
		52	20	119	35	15
				133	30	15

WELL NUMBER TT54		BY Thomas - Brown			DATE 12-28-84	
AIR LINE	STATIC LEVEL	PUMPING LEVEL	DRAIN DOWN	DISCHARGE PRESSURE	GPM	START TIME
65	36	51	15	36	100	1015
		59	23	30	119	0925

REMARKS left sel @ 30 psi @ 119 GPM P/L 59 D/D 23

MANUFACTURER	STAGE	S.N.	TOTAL HEAD	SIZE



TT 54

LENGTH  
OF  
AIR LINE

STATIC  
LEVEL

PUMPING  
LEVEL

DRAW  
DOWN

DISCHARGE  
PRESSURE

CAP. PER  
FOOT OF  
DISCH. TUBE

TOTAL  
CAP.

9-14-82

65

34

55

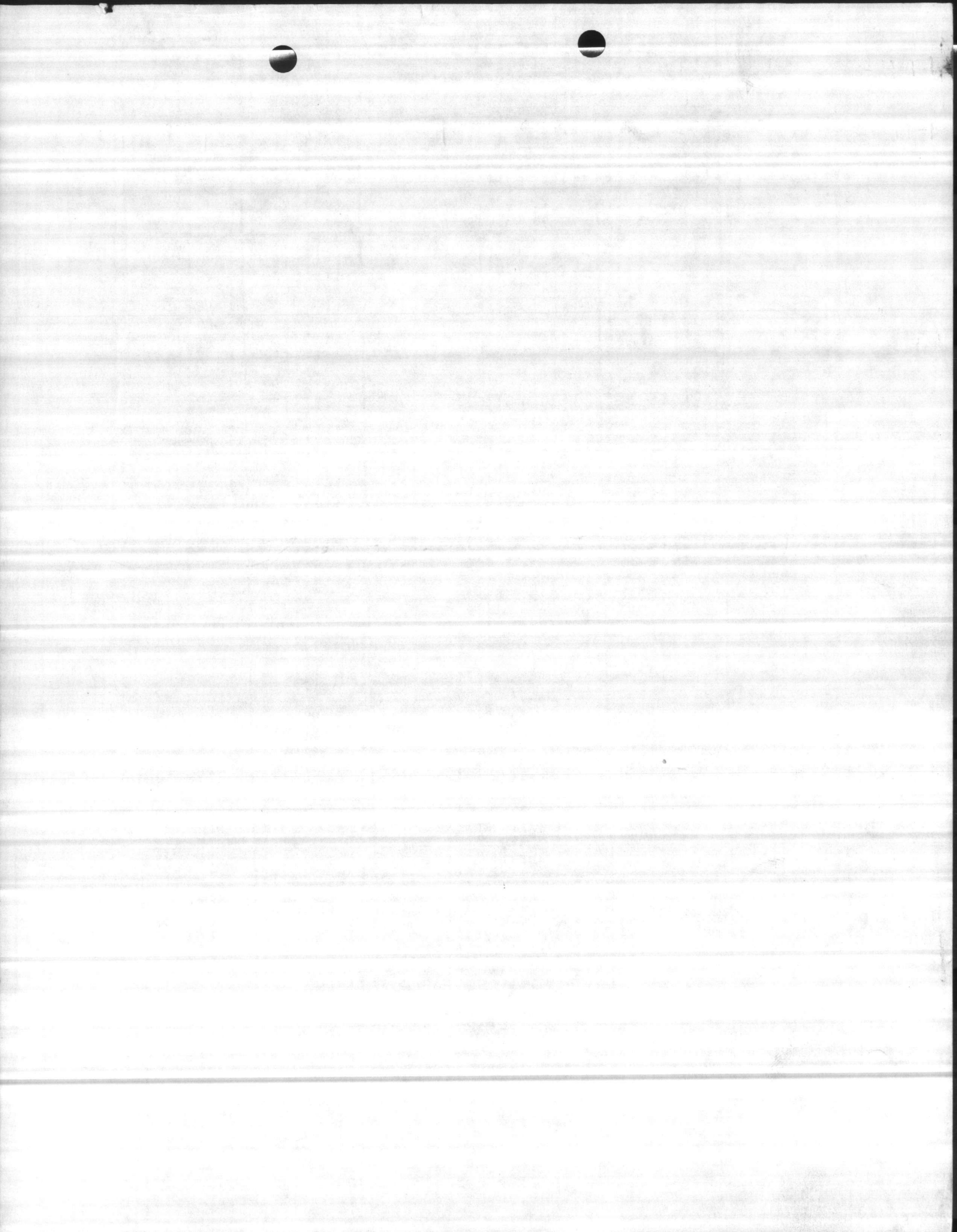
19

24

140

REMARKS:

*used direct reading gage*



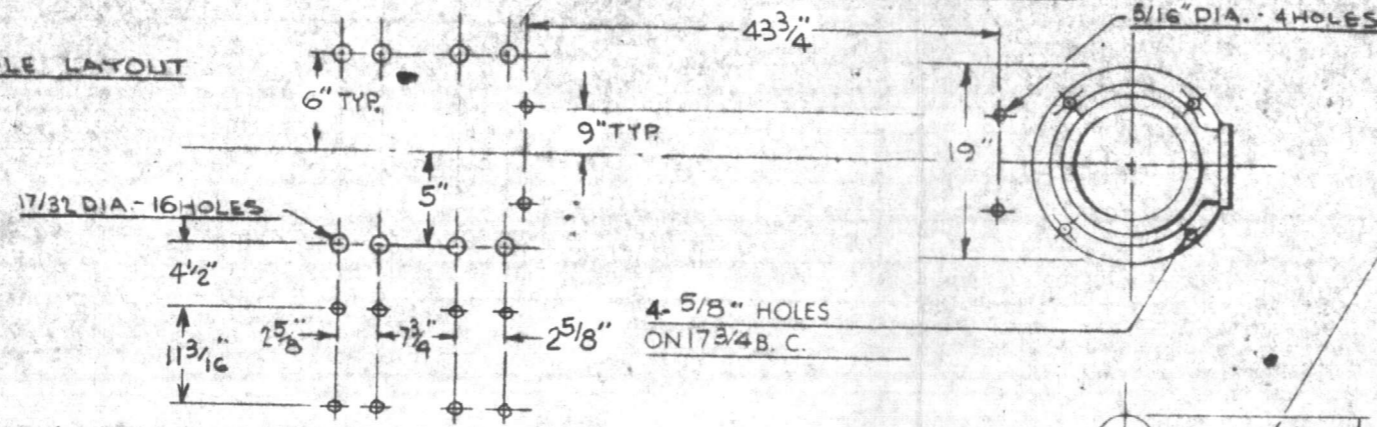


# JOHNSTON VERTICAL TURBINE PUMP

SURFACE DISCHARGE

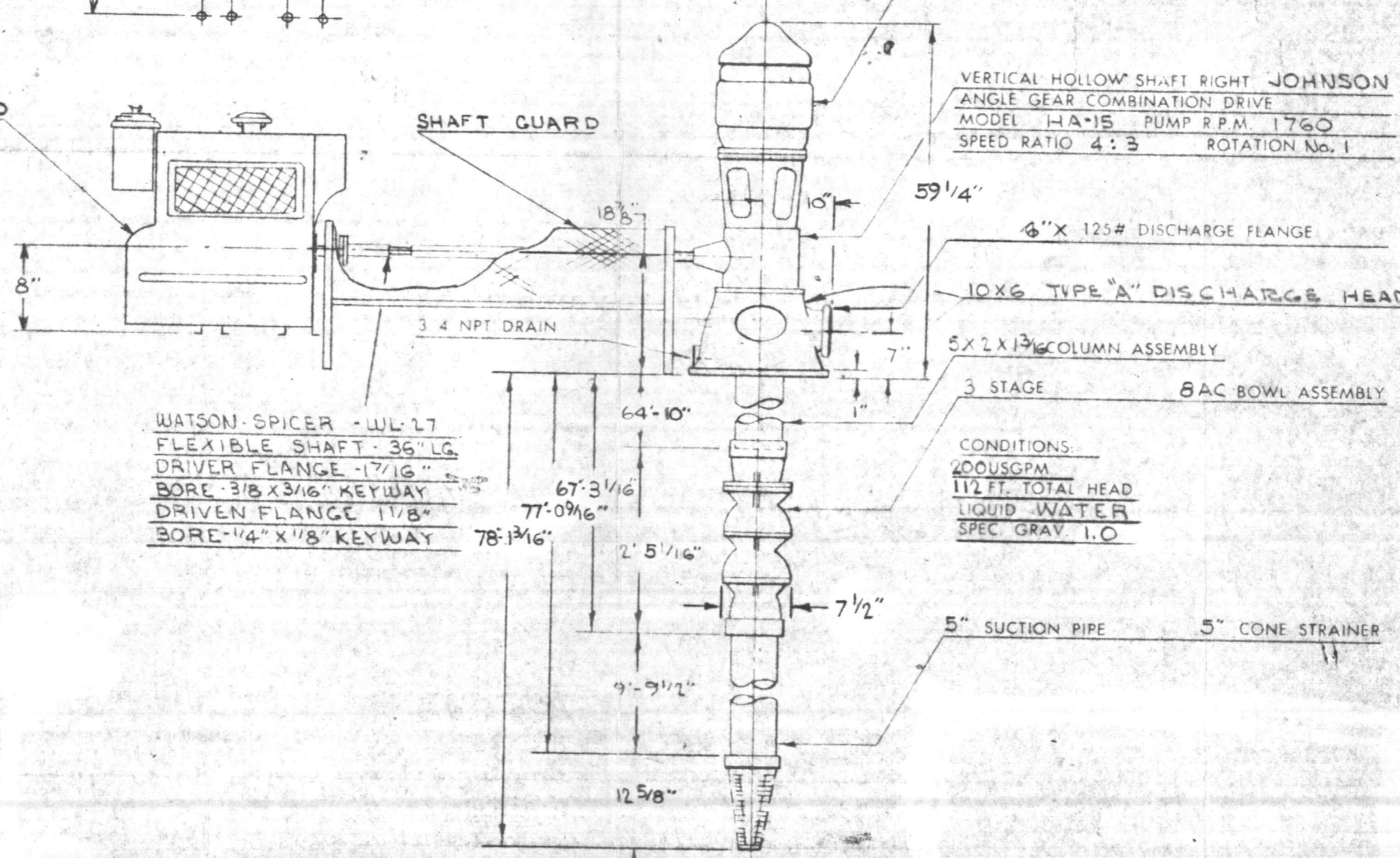
GEAR DRIVE

MOUNTING HOLE LAYOUT



VERTICAL HOLLOW SHAFT MOTOR G.E.  
 K. FRAME # 256 UP  
 10 HP 3 PHASE 60 CYCLES  
 220 VOLTS 1800 R.P.M.  
 MED THRUST TEFC ENCLOSURE

WISCONSIN AIR COOLED  
 GASOLINE ENGINE  
 MODEL VF4D



VERTICAL HOLLOW SHAFT RIGHT JOHNSON  
 ANGLE GEAR COMBINATION DRIVE  
 MODEL HA-15 PUMP R.P.M. 1760  
 SPEED RATIO 4:3 ROTATION No. 1

WATSON-SPICER - WL-27  
 FLEXIBLE SHAFT - 36" LG.  
 DRIVER FLANGE - 1 7/16"  
 BORE - 3/8 X 3/16" KEYWAY  
 DRIVEN FLANGE 1 1/8"  
 BORE - 1/4" X 1/8" KEYWAY

6" X 125# DISCHARGE FLANGE  
 10X6 TYPE "A" DISCHARGE HEAD  
 5 X 2 X 1 3/16" COLUMN ASSEMBLY  
 3 STAGE 8 AC BOWL ASSEMBLY

CONDITIONS:  
 200 USGPM  
 112 FT. TOTAL HEAD  
 LIQUID WATER  
 SPEC. GRAV. 1.0

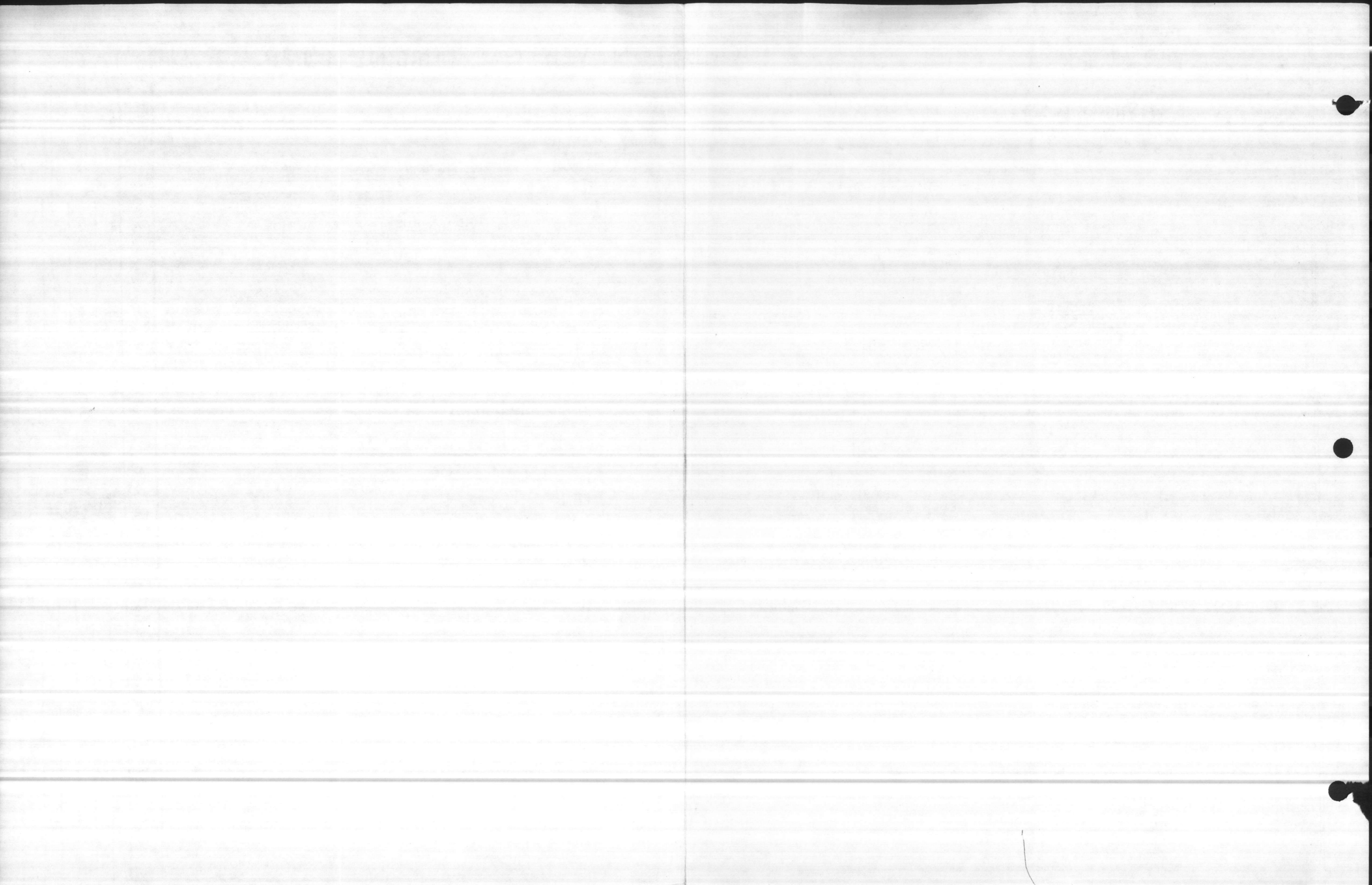
5" SUCTION PIPE 5" CONE STRAINER

CUSTOMER HARTSFIELD WATER CO.  
 PO# \_\_\_\_\_  
 DEALER \_\_\_\_\_  
 PO# \_\_\_\_\_  
 JOHNSTON SERIAL # JS-6139  
 JOHNSTON QUOTATION # S-863-REV.

NOTE: DO NOT USE FOR CONSTRUCTION  
 UNLESS CERTIFIED.

JOHNSTON PUMP COMPANY  
 PASADENA, CALIFORNIA

PART NUMBER	MATERIAL	DATE	PATTERN NUMBER	DRAWING NUMBER	H-2200-B
VERTICAL TURBINE PUMP - GEAR DRIVE - GASOLINE ENGINE					
PASADENA, CALIF., U.S.A.					
NO.	REVISIONS	BY	DATE		



## FILE FOLDER

### DESCRIPTION ON TAB:

T. T. 67 Well #112

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- Outside/inside of actual folder did not contain hand written information**
- Outside/inside of actual folder did contain hand written information**  
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U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
OFFICE OF WATER DATA COORDINATION  
INVENTORY OF HYDROLOGIC DATA STATIONS  
QUALITY OF WATER

O.M.B. No. 42-1485  
Approval Expires June 30, 1979  
This report is authorized by O.M.B. Circular A-67. While organizations other than Federal agencies are not required to respond, their cooperation is needed to make the results of this inventory complete.

1. AGENCY CODE <b>MC</b>	2. TYPE <b>Q</b>	3. LATITUDE <b>34 44 09 N</b>	4. LONGITUDE <b>77 22 07 W</b>	5.
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6. AGENCY STATION NO. <b>TT-67</b>	7. STATION NAME <b>TT-38-67</b>
---------------------------------------	------------------------------------

8. DRAINAGE BASIN CODE No. Letter <b>06 N</b>	9. STATE CODE <b>32</b>	10. COUNTY CODE <b>133</b>	11. COUNTY NAME <b>Onslow</b>
---	----------------------------	-------------------------------	----------------------------------

12. PERIOD OF RECORD Began <b>1972</b> Discontinued	Y <input type="checkbox"/> Continuous Interruption Exceeds 1 Year	13.	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

<b>Physical</b>	<b>Chemical</b>	<b>Biologic</b>
311 Temperature	331 Dissolved solids	361 Coliforms
312 Specific conductance	332 <input checked="" type="checkbox"/> Chloride	362 Other micro-organisms (Benthic organism, phytoplankton, etc.)
313 Turbidity	333 Nutrients (nitrogen)	363 Other
314 Color	334 Nutrients (phosphorus)	
315 Odor	335 Common ions	<b>Sediment</b>
316 pH (field)	336 <input checked="" type="checkbox"/> Hardness	371 Concentration (suspended)
317 <input checked="" type="checkbox"/> pH (lab)	337 Radiochemical	372 Particle size (suspended)
318 Eh	338 Dissolved oxygen	373 Particle size (bed load material)
319 Suspended solids	339 Other gases	374 Other
320 Other	340 Minor elements	
	341 Pesticides (insecticides, herbicides, etc.)	
	342 Detergents - MBS	
	343 Biochemical oxygen demand	
	344 Carbon (total, dissolved, etc.)	

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 28542 City Code 0735

20. DATA ARE AVAILABLE TO PUBLIC ON REQUEST  Yes  No

21. OFFICE COMPLETING FORM  
**BASE MAINTENANCE DEPARTMENT**

22. COMPILER'S NAME  
**BOB WILSON**

23. DATE  
Month 12 Year 19 76

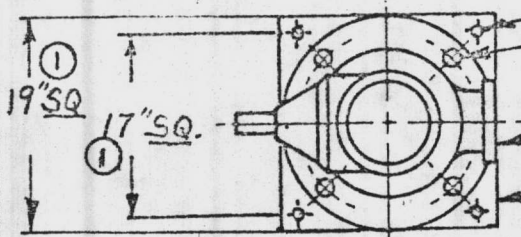
67

Bought for well RR 227

TT-67

# JOHNSTON VERTICAL TURBINE PUMP

4 5/8" DIA. HOLES ①  
4 5/8" DIA. HOLES ON 17 3/4" B.C.



① 6" x 125# ANSI DISCHARGE FLANGE

SUB-BASE - C.I.

CONDITIONS:

U.S. GALLONS PER MINUTE - 150  
TOTAL DYNAMIC HEAD IN FT. - 130  
LIQUID - WATER  
SPEC. GRAV. 1.0 @ AMB. °F. TEMP.

GENERAL ELECTRIC

VERTICAL HOLLOW SHAFT MOTOR

HP - 10 PHASE - 3 CYCLE - 60

① VOLTAGE - 230/460 RPM - 1800

ENCLOSURE - W.P. - 1

③ W/IF RIGID FLGD. CPLG.

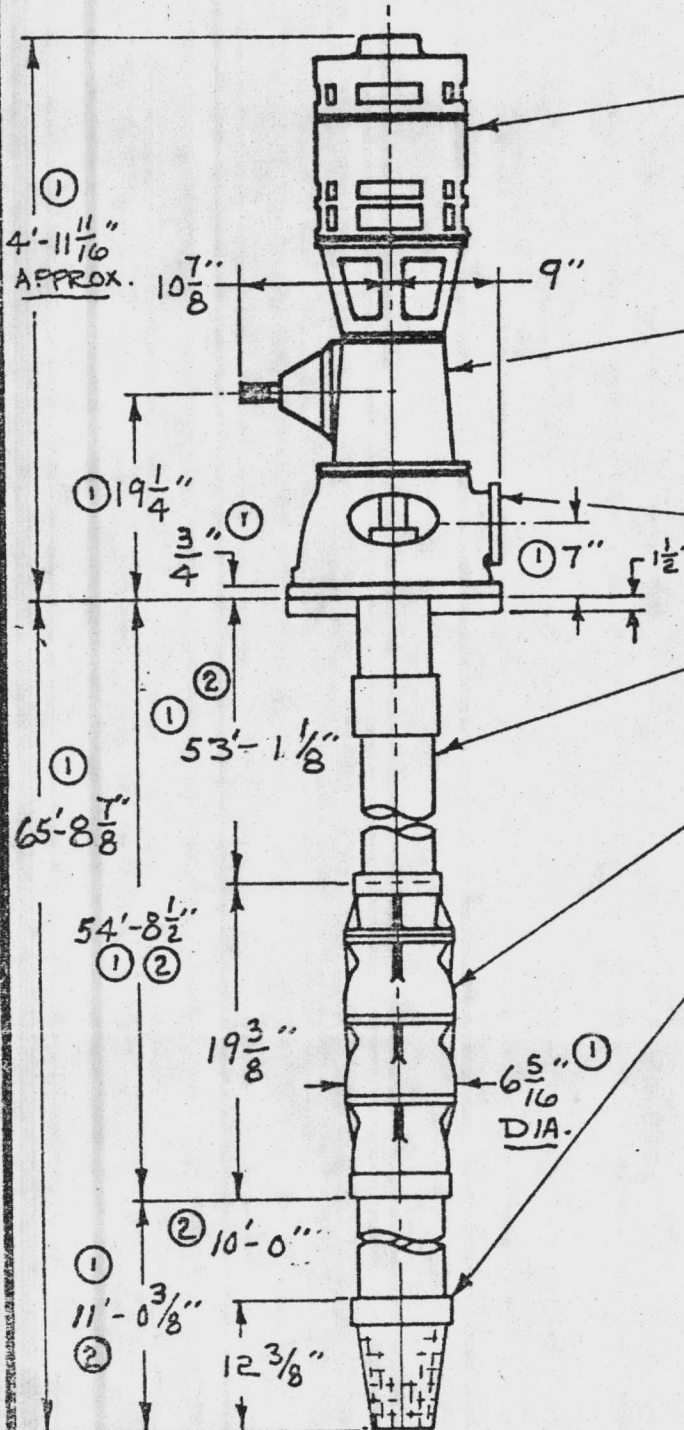
AMARILLO RIGHT ANGLE COMBINATION

GEAR DRIVE MODEL - G-20 RATIO -

DRIVER RPM - 1800 PUMP RPM - 3600

SHAFT DIA. - 1 1/4" KEYWAY 5/16" x 5/32"

(GEAR MAY BE ROTATED 90°)



① TYPE "JTA" DISCHARGE HEAD - 12" x 6"

COLUMN ASSEMBLY - 5" x 1"

① BOWL ASSEMBLY - 3 STAGE 6 BS

W/5" N.P.T. SUCTION CASE

① SUCTION PIPE & CONE STRAINER - 5" N.P.T.

CONE STRAINER 304 S.S.

CUSTOMER BASE DISBURSING OFFICER

PO# M 67001-77-M-5691

DEALER

PO#

JOHNSTON SERIAL NO. TK 2248

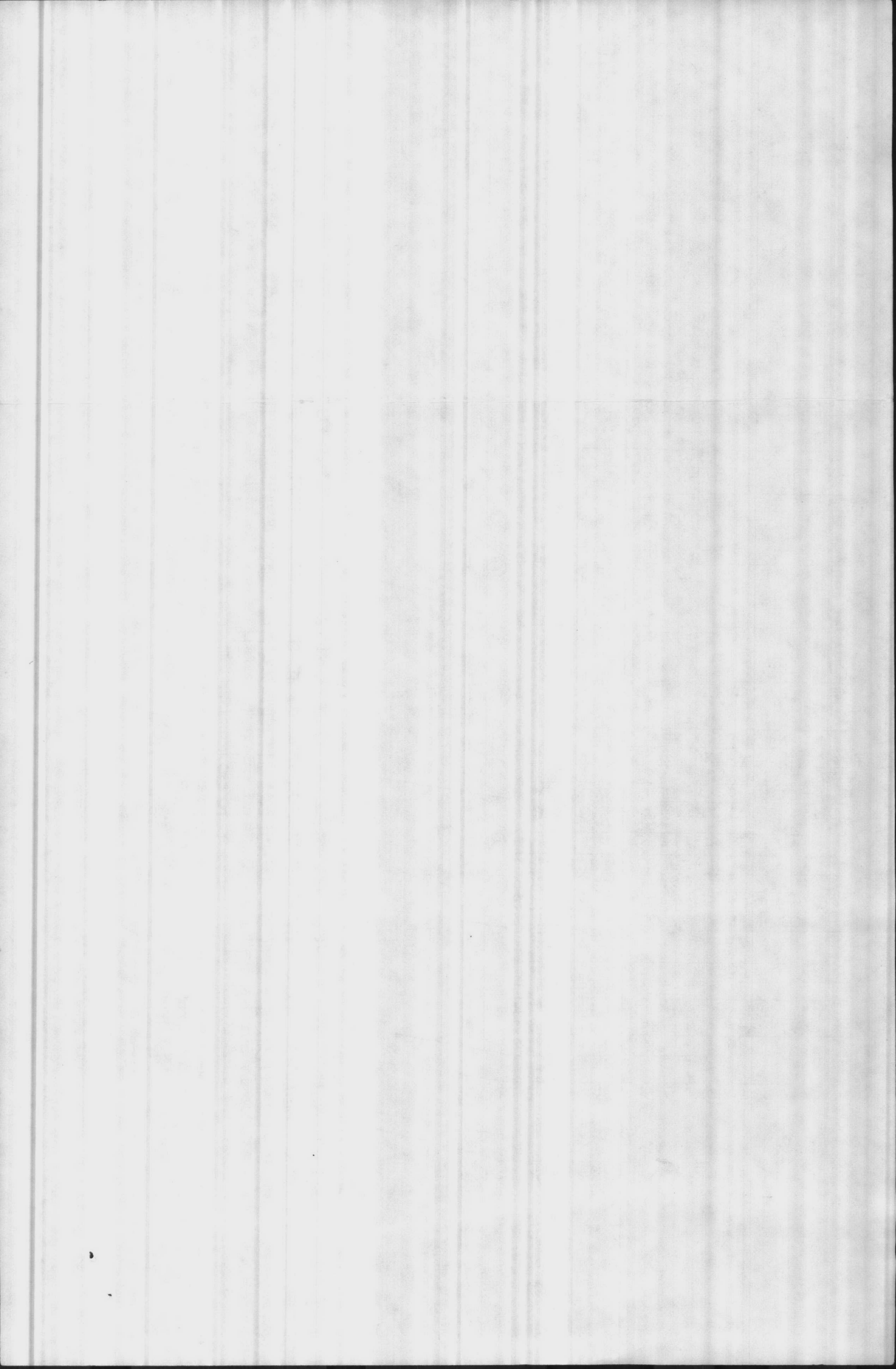
JOHNSTON QUOTATION NO.

NOTE: DO NOT USE FOR CONSTRUCTION  
UNLESS CERTIFIED

THIS PRINT CERTIFIED  
CORRECT BY  
JOHNSTON PUMP COMPANY  
Original Signed by  
H. A. J. GREUTINK

JOHNSTON PUMP CO.  
GLENDDORA, CALIFORNIA

H-1868-A



Well TT 67

New 3-Stage Johnston pump  
installed Jan 26 1979.

this pump has 3600 RPM

it was purchased for and  
installed in well KR 227

Dec 1978, pump was breaking  
suction after approx 10 sec.

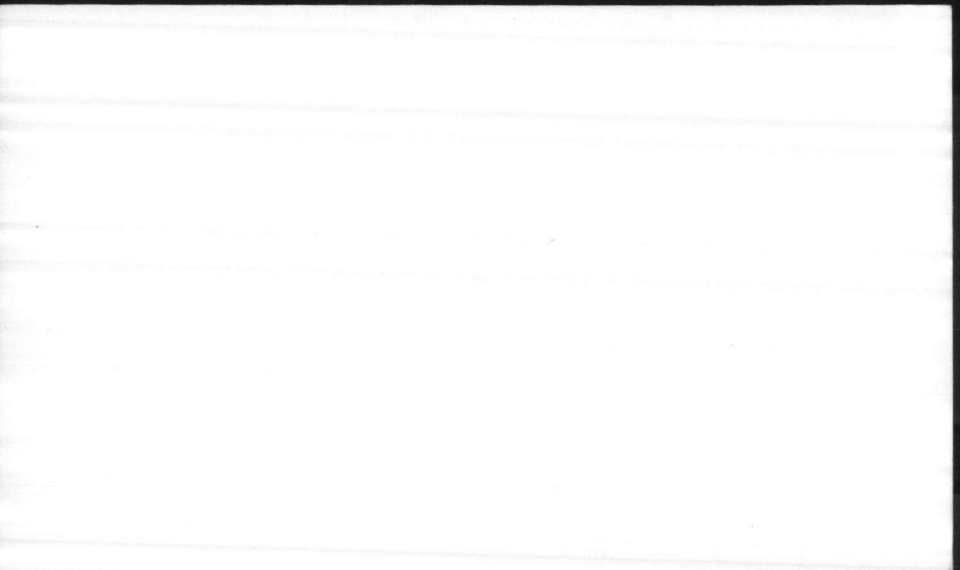
pumping CAP 150. T.D.H. 130 SET 50'

SIZE 5"

New airline 90'

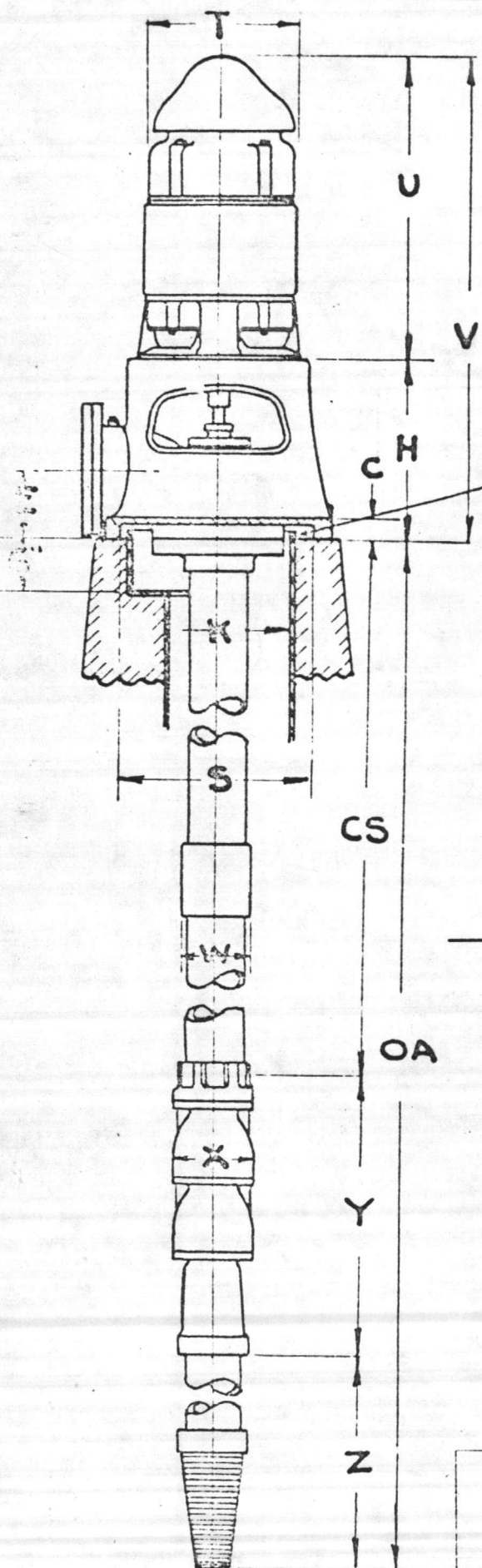
WSP  
2/15/79



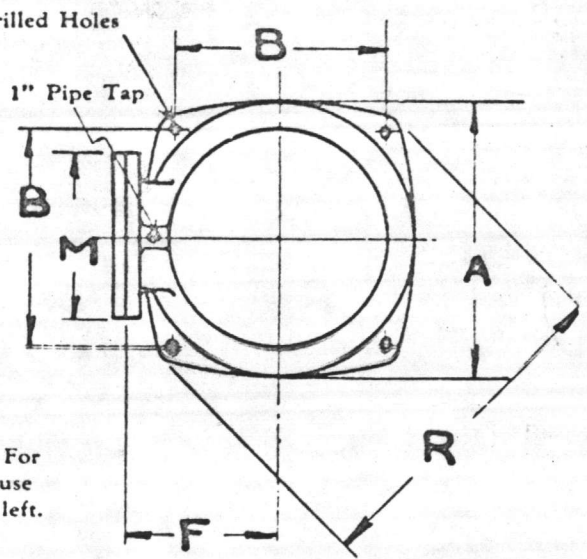


# DEMING VERTICAL TURBINE PUMPS

TT 67



Well #12



Recess for 1" casing extension. For well casing smaller than "K" use alternate arrangement shown at left.

DIMENSIONS			
A	14"	S	12 3/4"
B	12 3/8"	T	10"
C	2"	U	23 13/16"
D	5/8"	V	37 5/16"
E	6"	W	5 7/32"
F	7 1/2"	X	5 3/4"
H	15 1/2"	Y	5' 0 5/8"
K	8"	Z	10' 11"
M	9"	CS	44' 70'
R	19 1/8"	OA	75' 11 7/8"

## SPECIFICATIONS <sup>85'</sup>

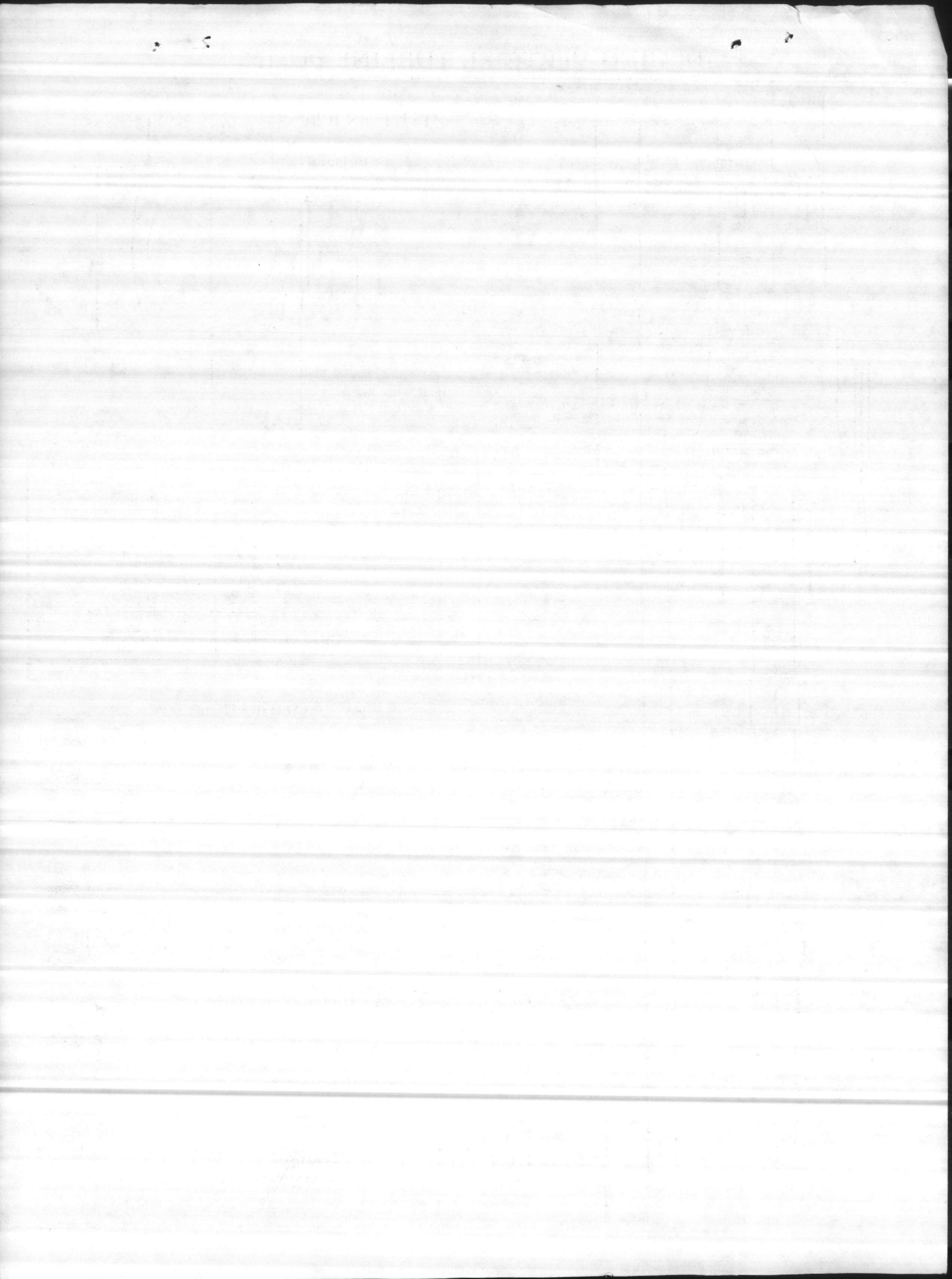
DEMING Fig. 4750 Vertical Turbine Pump designed for 168 GPM at 100 feet head, including:  
7.5 HP 1200 RPM 230/460 volt 3 Phase 60 Cycle TEFC Vertical Hollowshaft Motor with Non-Return-SC Coupling  
 SD 44-10 Surface Discharge Head with 4" inch discharge flange with bolts and gasket.  
70 to 80 feet 4" x 1" Column and shaft with oil lube bronze Bearings on 10 foot centers  
8 Stage 6" inch MGE Bowl Assembly using Impeller 27007-A from Curve PC 2597  
10 feet 4 inch steel suction pipe  
4 inch galv strainer

When properly endorsed this print is correct for  
Camp LeJeune NC Well TT-67  
 Customer's P. O. \_\_\_\_\_ Turbine No. T- \_\_\_\_\_  
 Date: 11-72 By: RLR

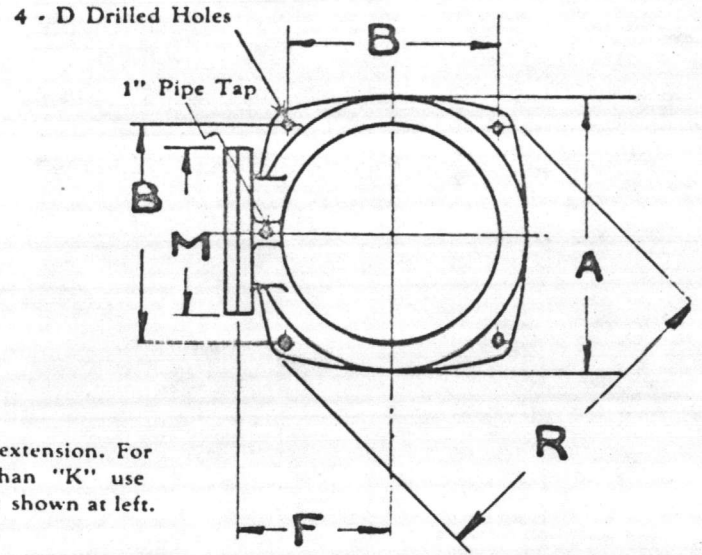
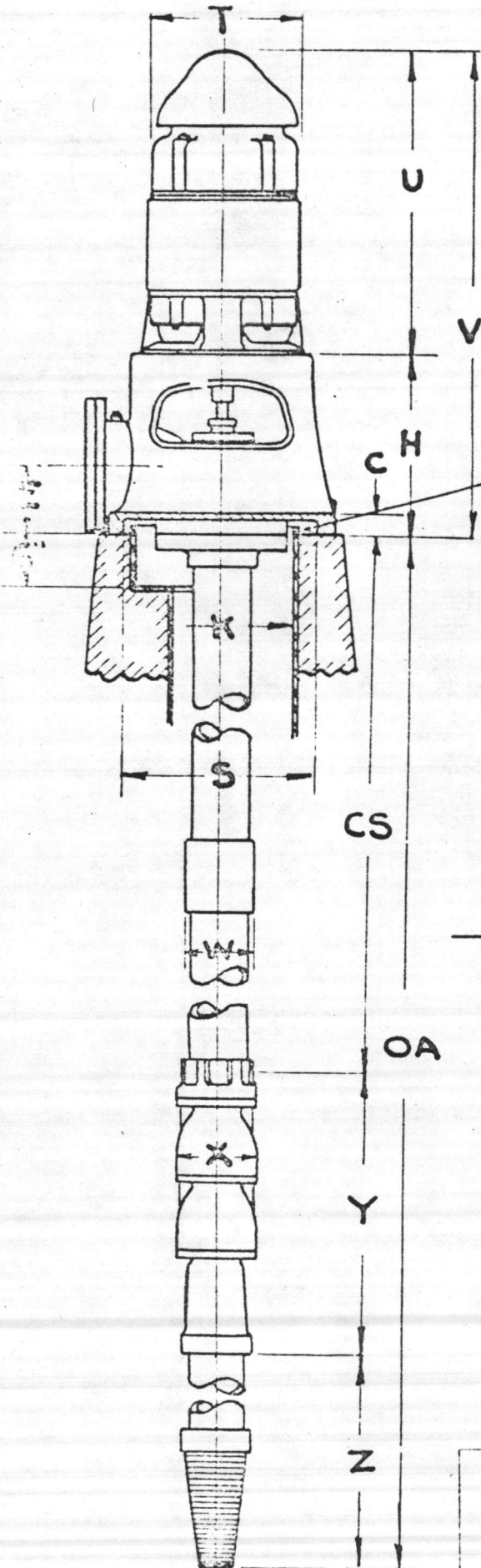
CRANE

DEMING PUMPS

CRANE CO • 884 SOUTH BROADWAY • SALEM, OHIO 44460



# DEMING VERTICAL TURBINE PUMPS



Recess for 1" casing extension. For well casing smaller than "K" use alternate arrangement shown at left.

DIMENSIONS			
A	14"	S	12 3/4"
B	12 3/8"	T	10"
C	2"	U	23 13/16"
D	5/8"	V	39 5/16"
E	6"	W	5 7/32"
F	7 1/2"	X	5 3/4"
H	15 1/2"	Y	5' 0 5/8"
K	8"	Z	10' 11"
M	9"	CS	60' 70'
R	19 1/8"	OA	75' 11 7/8"

## SPECIFICATIONS

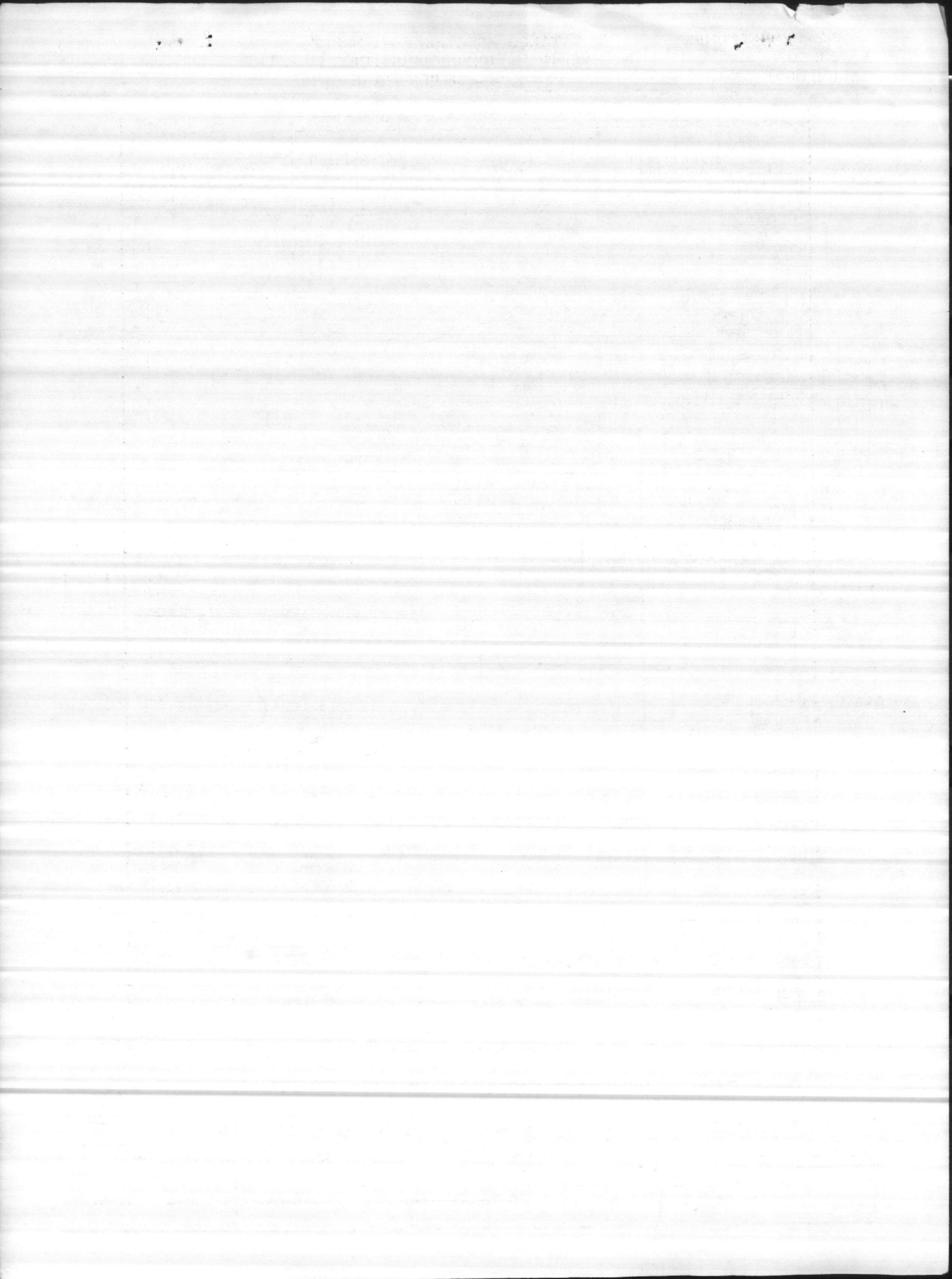
DEMING Fig. 4750 Vertical Turbine Pump designed for 168 GPM at 100 feet head, including:-  
7.5 HP 1800 RPM 230/460 Volt 3 Phase 60 Cycle  
TEFC Vertical Hollowshaft Motor with Non Reverse  
Coupling  
SD 44-10' Surface Discharge Head with 4" inch discharge flange with bolts and gasket.  
70 to 85 feet 4" x 1" Column and shaft with oil lube Bronze Bearings on 10 foot centers  
8 Stage 6" inch MGE Bowl Assembly using Impeller 27007-A from Curve PC 2597  
10 feet 4 inch Steel suction pipe  
4 inch Galv strainer

When properly endorsed this print is correct for

Camp LeJeune NC Well TT-67  
 Customer's P. O. \_\_\_\_\_ Turbine No. T- \_\_\_\_\_  
 Date: 11-72 By RLR

**CRANE DEMING PUMPS**

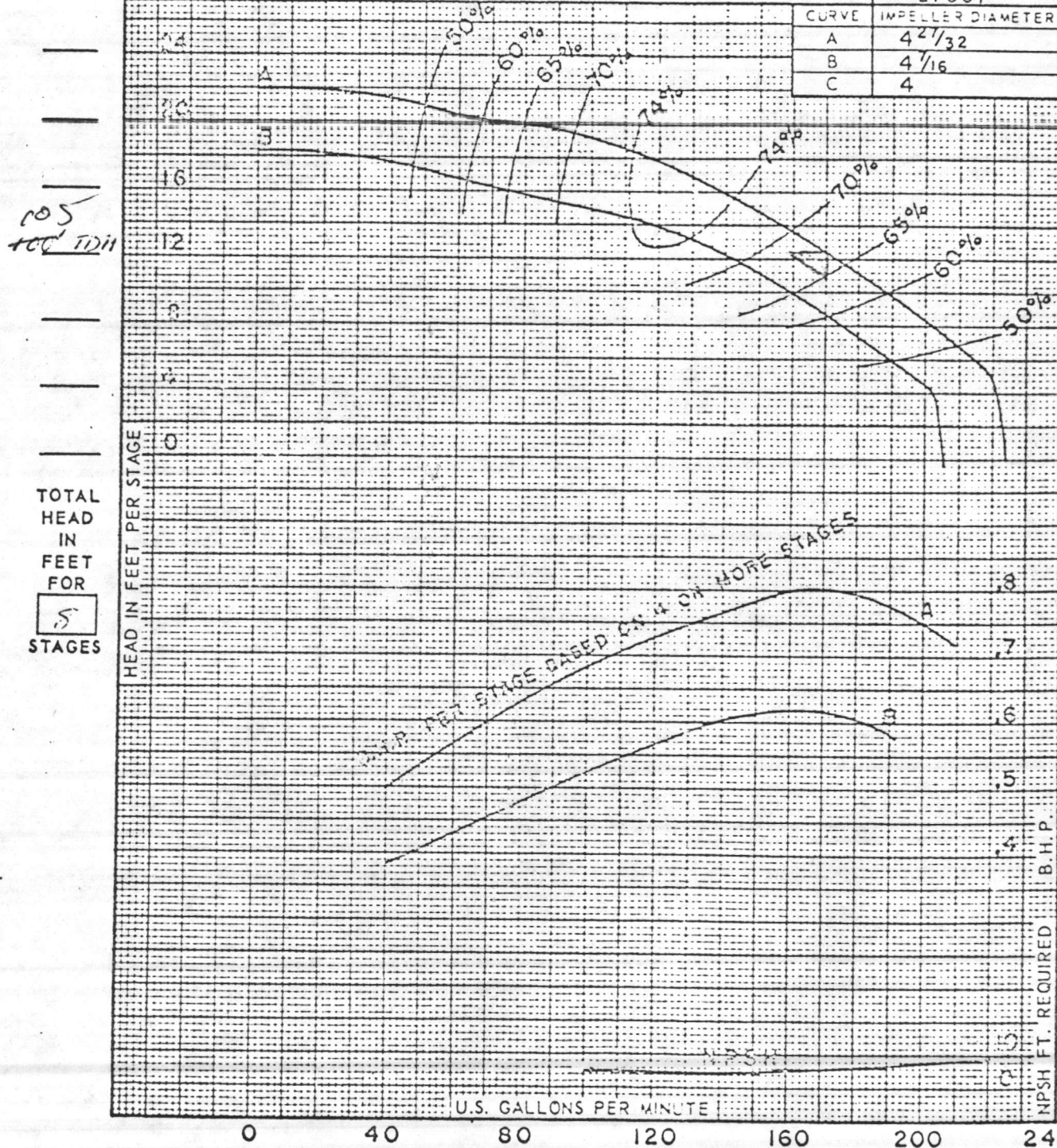
CRANE CO • 884 SOUTH BROADWAY • SALEM, OHIO 44460



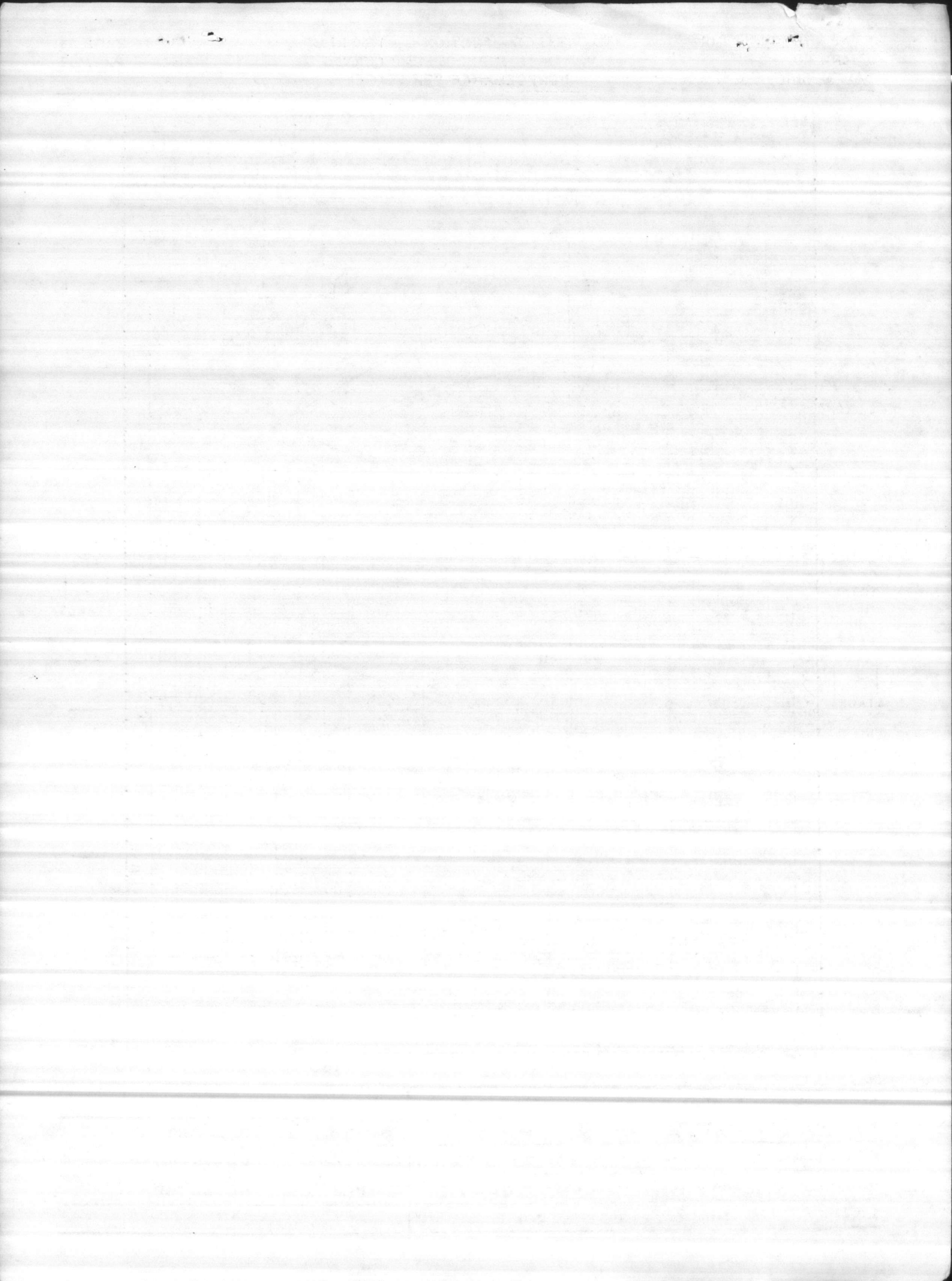
EFFICIENCY CHANGE:		DIMENSIONS		FIG. 4700	FIG. 4750
4	STAGE DEDUCT	0	POINTS	5 3/4	5 3/4
3	STAGE DEDUCT	1	POINTS		
2	STAGE DEDUCT	2	POINTS	15 1/8	18 1/8
1	STAGE DEDUCT	4	POINTS	6 1/2	6 1/2
FOR ENAMELED BOWLS ADD		3	POINTS	2 9	

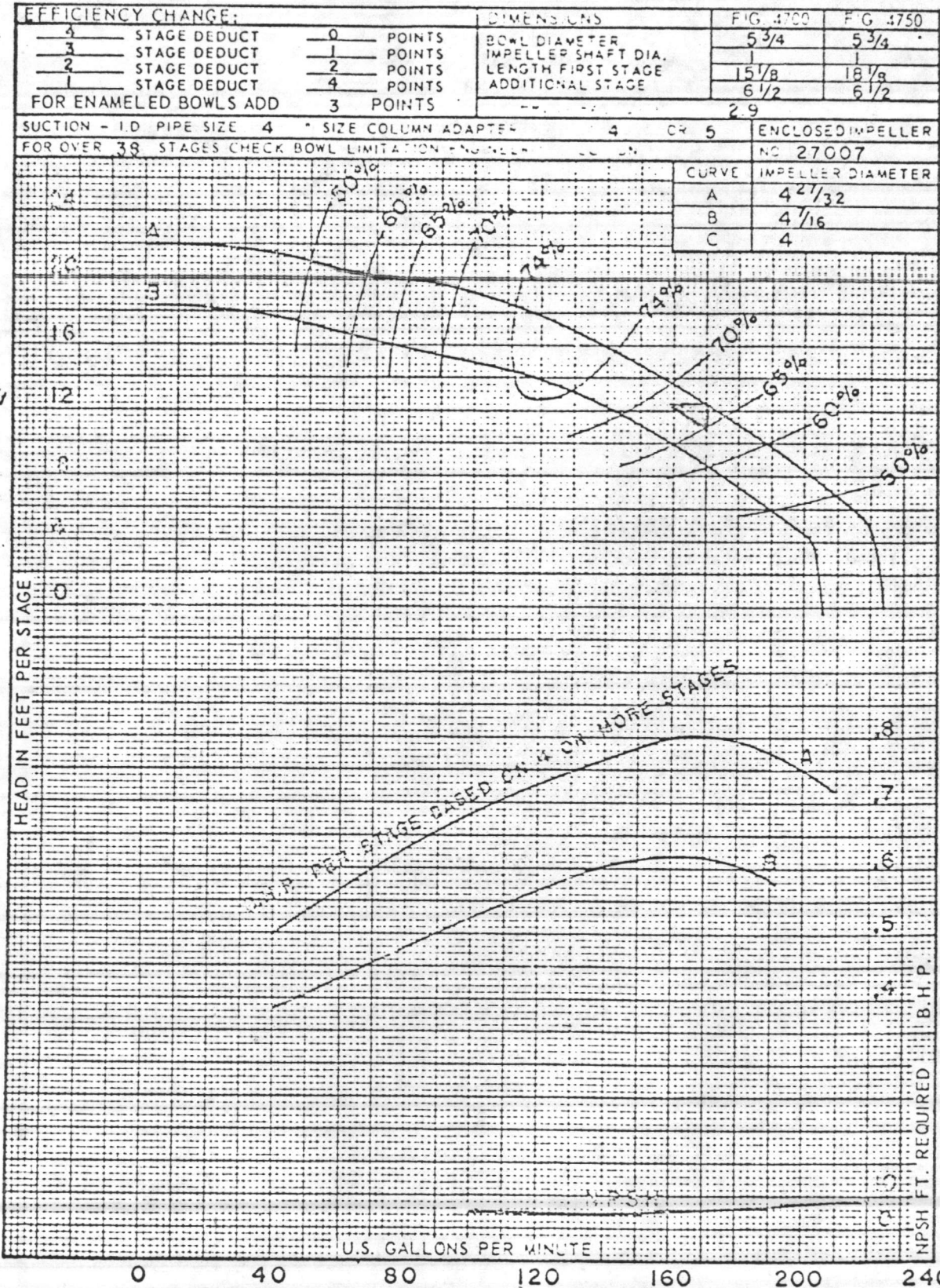
SUCTION - I.D. PIPE SIZE 4 " SIZE COLUMN ADAPTER 4 OR 5 ENCLOSED IMPELLER  
FOR OVER 38 STAGES CHECK BOWL LIMITATION AND NEAR NO. 27007

CURVE	IMPELLER DIAMETER
A	4 27/32
B	4 7/16
C	4



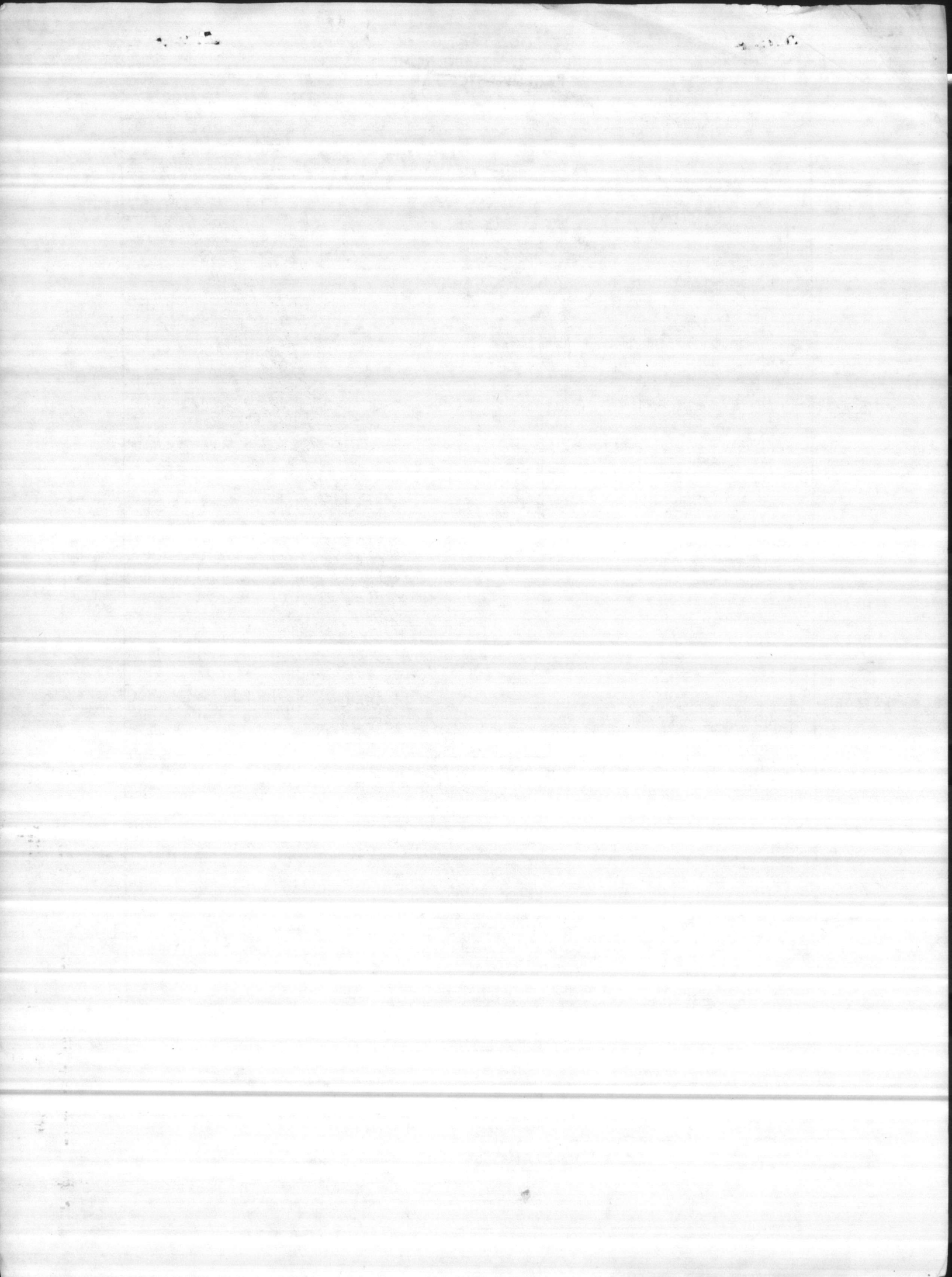
Customer	Camp Le. JENNIE NC Well	C. No.	TT67	Capacity	168 gpm	Bowl Eff.	%
Fig.	4750	Size	M6E	Stages	8	Impeller	"A"
Column - Length	66	Size	4	Lineshaft Dia.	1"	Column Friction	ft
Motor - HP	7.5	RPM	1800	Type Head	5D44-10	Bowl Head	ft
S.O.	Serial	Date				Total BHP	





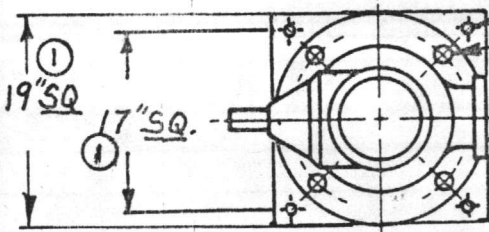
Customer	Camp Le-Janne NC Well	C. No.	TT67	Capacity	168 gpm	Bowl Eff.	%
Fig.	4750	Size	M6E	Stages	8	Impeller	"A"
Column - Length	66	Size	4	Lineshaft Dia.	1"	Column Friction	ft
Motor - HP	7.5	RPM	1800	Type Head	SD44-10	Bowl Head	ft
S.O.	Serial	Date				Total BHP	





# JOHNSTON VERTICAL TURBINE PUMP

4  $\frac{5}{8}$ " DIA. HOLES ①  
 4  $\frac{5}{8}$ " DIA. HOLES ON  $17\frac{3}{4}$ " B.C.



① 6" x 125# ANSI DISCHARGE FLANGE

SUB-BASE - C.I.

CONDITIONS:

U.S. GALLONS PER MINUTE— 150  
 TOTAL DYNAMIC HEAD IN FT.— 130  
 LIQUID— WATER  
 SPEC. GRAV. 1.0 @ AMB. °F. TEMP.

GENERAL ELECTRIC

VERTICAL HOLLOW SHAFT MOTOR

HP— 10 PHASE— 3 CYCLE— 60

① VOLTAGE— 230/460 RPM— 1800

ENCLOSURE— W. P. - 1

③ W/IF RIGID FLGD. CPLG.

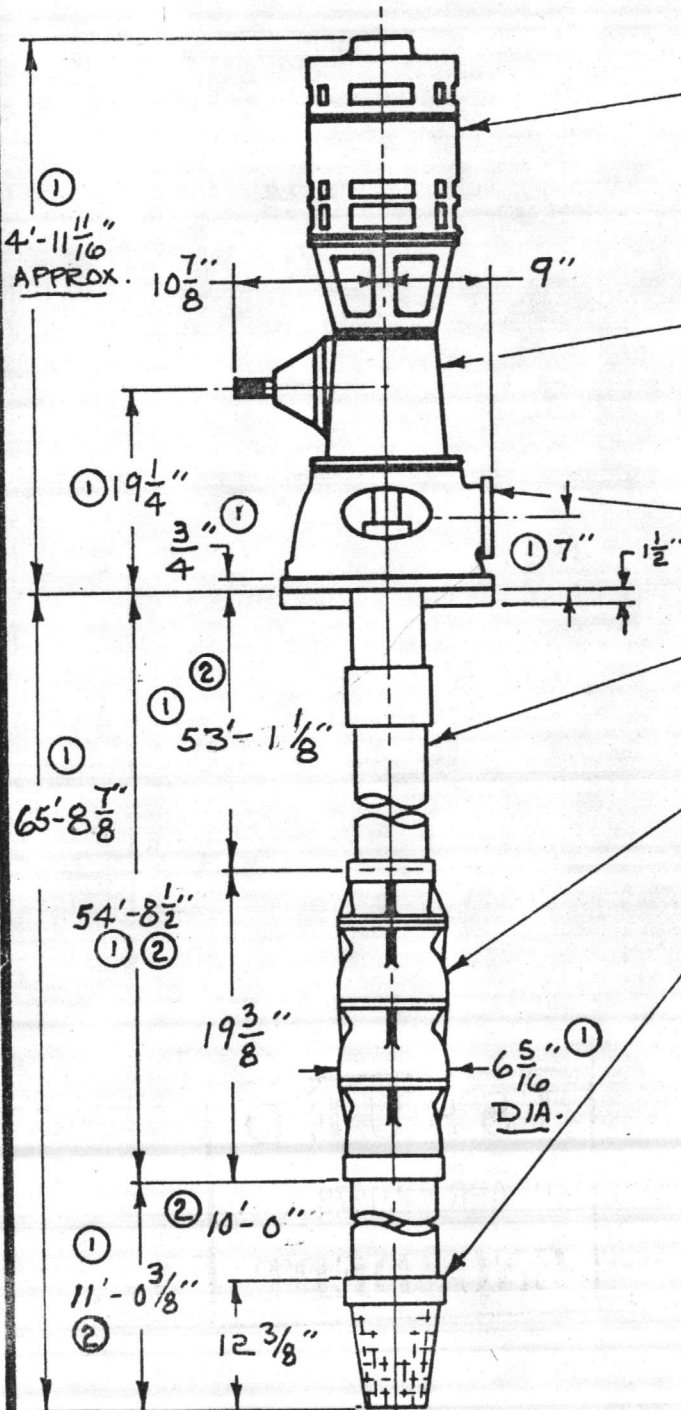
AMARILLO RIGHT ANGLE COMBINATION

GEAR DRIVE MODEL— G-20 RATIO—

DRIVER RPM— 1800 PUMP RPM— 3600

SHAFT DIA.—  $1\frac{1}{4}$ " KEYWAY  $\frac{5}{16}$ " x  $\frac{5}{32}$ "

(GEAR MAY BE ROTATED 90°)



① TYPE "JTA" DISCHARGE HEAD— 12" x 6"

COLUMN ASSEMBLY— 5" x 1"

① BOWL ASSEMBLY— 3 STAGE 6 BS  
 W/5" N.P.T. SUCTION CASE

① SUCTION PIPE & CONE STRAINER— 5" N.P.T.  
 CONE STRAINER 304 S.S.

CUSTOMER BASE DISBURSING OFFICER  
 PO# M67001-77-M-5691

DEALER

PO#

JOHNSTON SERIAL NO. TK 2248

JOHNSTON QUOTATION NO.

NOTE: DO NOT USE FOR CONSTRUCTION  
 UNLESS CERTIFIED

THIS PRINT CERTIFIED  
 CORRECT BY  
 JOHNSTON PUMP COMPANY  
 Original Signed by  
 H. A. J. GREUTINK

JOHNSTON PUMP CO.  
 GLENDORA, CALIFORNIA

H-1868-A

**ISSUED**  
APR 4 1978  
**ENG. DEPT.**

TT-67

RR-227

151-77

<b>CHECKED BOX APPLIES</b>		<input checked="" type="checkbox"/> <b>ORDER FOR SUPPLIES OR SERVICES</b>		<input type="checkbox"/> <b>REQUEST FOR QUOTATIONS NO.</b>		RETURN COPIES OF THIS QUOTE BY		PAGE 1 OF 2							
1. CONTRACT/PURCH ORDER NO. M67001-77-M-5691		2. DELIVERY ORDER NO.		3. DATE OF ORDER 77 SEP 30		4. REQUISITION/PURCH REQUEST NO. M93058-7234-W001		5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO							
6. ISSUED BY: J. HARRIS/919-451-2332 Purchasing & Contracting Office Bldg 1211, Marine Corps Base Camp Lejeune, N. Carolina 28542		CODE M67001		7. ADMINISTERED BY: (If other than 6)		CODE		8. DELIVERY FOB <input type="checkbox"/> DESTINATION <input checked="" type="checkbox"/> OTHER (See Schedule if other)							
9. CONTRACTOR/QUOTER NAME AND ADDRESS JOHNSTON PUMP COMPANY c/o Richard Yountz Route 9, 17 Woodberry Way Greenville, SC 29609		CODE		FACILITY CODE		10. DELIVER TO FOB POINT BY: 5122 78 FEB 28		11. CHECK IF SMALL BUSINESS <input type="checkbox"/> MBE <input type="checkbox"/>							
14. SHIP TO: Freight Traffic Branch Bldg 1011, Camp Lejeune, N. Carolina M67001-77-M-5691		CODE		15. PAYMENT WILL BE MADE BY: Base Disbursing Officer MCB, Camp Lejeune, North Carolina 28542		CODE M67001		12. DISCOUNT TERMS 1/2% 10 days NET 30							
16. DELIVERY <input checked="" type="checkbox"/>		This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.													
PURCHASE <input checked="" type="checkbox"/>		Reference your TELEQUOTE, 77 SEP 30. furnish the following on terms specified herein, including: for U. S. purchases, General Provisions of Purchase Order on DD Form 1155r (Except CLAUSE NO. 13 APPLIES ONLY IF THIS BOX <input type="checkbox"/> IS CHECKED, and NO. 15 IF THIS BOX <input type="checkbox"/> IS CHECKED); special provisions 10 USC 2304(a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a)(6). This purchase is negotiated under authority of <input type="checkbox"/> If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return copies.													
17. ACCOUNTING AND APPROPRIATION DATA - ACCOUNTING CLASSIFICATION (REV. 7-65)															
ITEM NO.	APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	BUREAU CONT. NO.	SUB-ALLOT.	AUTH'N ACCT'G ACTY	TRANS. TYPE	PROPERTY ACCT'G ACTY	COUNTRY	COST CODE	AMOUNT					
1	1771106.2720	000	67001	0	067001	2D	000000		AA72347932383T	PLUS TRANS \$3,512.00					
18. ITEM NO.		19. PRIORITY 14 SCHEDULE OF SUPPLIES/SERVICES				20. QUANTITY ORDERED/ACCEPTED*		21. UNIT		22. UNIT PRICE		23. AMOUNT			
1		MML999 M93058-7234-W001 4320-00-C99-1265 Johnston Model JT Pump, Vertical Turbine deep-well dual drive complete, size 5", 6 stage, 50 foot setting, 150 GPM, 130 feet TDH.  Motor 10 HP 1800 RPM 208/220 volt 1.15 service factor, WP-1 enclosure vertical hollow shaft high thrust. Amarillo, Model C-20 combination gear drive 1 to 2 speed increasing, hollow shaft non-reverse coupling.				1		ea		3,512.00		3,512.00			
* If quantity accepted by the Government is same as quantity ordered, indicate by <input checked="" type="checkbox"/> mark. If different, enter actual quantity accepted below quantity ordered and encircle.		24. UNITED STATES OF AMERICA <i>Lone O. Holsonback</i> BY: IONE O. HOLSONBACK		25. TOTAL \$3,512.00		29. DIFFERENCES		30. INITIALS		33. AMOUNT VERIFIED CORRECT FOR		34. CHECK NUMBER		35. BILL OF LADING NO.	
26. QUANTITY IN COLUMN 20 HAS BEEN: <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP NO.		28. D.O. VOUCHER NO.		31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY 67001- SYM # 5190 MCB CLNC		33. AMOUNT VERIFIED CORRECT FOR		34. CHECK NUMBER		35. BILL OF LADING NO.	
36. I CERTIFY that this account is correct and proper for payment  (Signature and title of Certifying Officer)		37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED		40. TOTAL CONTAINERS		41. S/R ACCOUNT NUMBER		42. S/R VOUCHER NO.			

Received July 20, 78

**THIS PARAGRAPH APPLIES ONLY TO QUOTATIONS SUBMITTED:**

Supplies are of domestic origin unless otherwise indicated by quote. The Government reserves the right to consider quotations or modifications thereof received after the date indicated should such action be in the interest of the Government. This is a request for information and quotations furnished are not offers. When quoting, complete blocks 11, 12, 22, 23, 25. If you are unable to quote, please advise. This request does not commit the Government to pay any cost incurred in preparation or the submission of this quotation or to procure or contract for supplies or services.

**GENERAL PROVISIONS**

**1. INSPECTION AND ACCEPTANCE** - Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the United States Government. Notwithstanding the requirements for any Government inspection and test contained in specifications applicable to this contract, except where specialized inspections or tests are specified for performance solely by the Government, the Contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under the contract conform to the drawings, specifications and contract requirements listed herein, including if applicable the technical requirements for the manufacturers' part numbers specified herein.

**2. VARIATION IN QUANTITY** - No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

**3. PAYMENTS** - Invoices shall be submitted in quadruplicate (*one copy shall be marked "Original"*) unless otherwise specified, and shall contain the following information: Contract or Order number, Item number, contract description of supplies or services, sizes, quantities, unit price and extended totals. Bill of lading number and weight of shipment will be shown for shipments on Government Bills of Lading. Unless otherwise specified, payment will be made on partial deliveries accepted by the Government when the amount due on such deliveries so warrants.

**4. DISCOUNTS** - In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when acceptance is at the point of origin, or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of these points, or from the date the correct invoice or voucher is received in the office specified by the Government, if the latter is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

**5. DISPUTES** - (a) Except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer, who shall mail or otherwise furnish a copy thereof to the Contractor. This decision shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Contractor mails or otherwise furnishes to the Contracting Officer a written appeal addressed to the Secretary. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. The Contractor shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the contract and in accordance with the Contracting Officer's decision. (b) This "Disputes" clause does not preclude consideration of law questions in connection with decisions provided for in (a) above, provided, that nothing in this contract shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

**6. FOREIGN SUPPLIES** - This contract is subject to the Buy American Act (41 U.S.C. 101a) as implemented by Executive Order 10582 of December 17, 1954, and any restrictions in appropriation acts on the procurement of foreign supplies.

**7. CONVICT LABOR** - The Contractor agrees not to employ for work under this contract any person undergoing sentence of imprisonment at hard labor.

**8. OFFICIALS NOT TO BENEFIT** - No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

**9. COVENANT AGAINST CONTINGENT FEES** - The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration or otherwise recover the full amount of such commission, percentage, brokerage or contingent fee.

**10. GRATUITIES** - (a) The Government may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this contract if it is found after notice and hearing by the Secretary or his duly authorized representative that gratuities in the form of entertainment, gifts, or otherwise were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the Government with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such contract, provided that the existence of the facts upon which the Secretary or his duly authorized representative makes such findings shall be in issue and may be reviewed in any competent court. (b) In the event this contract is terminated as provided in paragraph (a) hereof, the Government shall be entitled to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the contract by the Contractor, and (c) as a penalty in addition to any other damages to which it may be entitled by law to recoup damages in an amount not less than ten times the costs incurred by the Contractor in providing any such gratuities to any such officer or employee. The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

**11. RENEGOTIATION** - This contract, and any subcontract hereunder, is subject to the Renegotiation Act of 1951, as amended (50 U.S.C. App. 1241 et seq.) and shall be deemed to contain all the provisions required by section 104 thereof, and is subject to any subsequent act of Congress providing for the renegotiation of contracts.

**12. CONDITION FOR ASSIGNMENT** - This Purchase Order may not be assigned pursuant to the Assignment of Claims Act of 1940, as amended (41 U.S.C. 201, 41 U.S.C. 15) unless or until the supplier has been requested and has accepted this order by executing the Acceptance hereon.

**13. COMMERCIAL WARRANTY** - The Contractor agrees that the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties the Contractor gives to any customer for such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Government by any other clause of this contract.

**14. PRIORITIES, ALLOCATIONS AND ALLOTMENTS DEFENSE MATERIALS SYSTEM** - When the amount of the order is \$500 or more the Contractor shall follow the provisions of DMS Reg. 1 and all other applicable regulations and orders of the Business and Defense Services Administration in obtaining controlled materials and other products and materials needed to fill this order.

**15. FAST PAYMENT PROCEDURE**

(a) *General* - This is a fast payment order. Invoices will be paid on the basis of the Contractor's delivery to a post office, common carrier, or, in shipment by other means, to the point of first receipt by the Government.

(b) *Responsibility for Supplies* - Title to the supplies shall vest in the Government upon delivery to a post office or common carrier for shipment to the specified destination. If shipment is by means other than post office or common carrier, title to the supplies shall vest in the Government upon delivery to the point of first receipt by the Government. Notwithstanding any other provision of the purchase order, the Contractor shall assume all responsibility and risk of loss for supplies (i) not received at destination, (ii) damaged in transit, or (iii) not conforming to purchase requirements. The Contractor shall either replace, repair, or correct such supplies promptly at his expense, provided instructions to do so are furnished by the Contracting Officer within ninety (90) days from the date title to the supplies vests in the Government.

(c) *Preparation of Invoice*

(1) Upon delivery of supplies to a post office, common carrier, or in shipments by other means, the point of first receipt by the Government, the Contractor shall prepare an invoice in accordance with Clause 3 of the General Provisions of Purchase Order, except that invoices under a blanket purchase agreement shall be prepared in accordance with the provisions of the agreement. In shipments by either post office or common carrier, the Contractor shall either (A) cite on his invoice the date of shipment, name and address of carrier, bill of lading number or other shipment document number, or (B) attach copies of such documents to his invoice as evidence of shipment. In addition the invoice shall be prominently marked "Fast Pay." In case of delivery by other than post office or common carrier, a receipted copy of the Contractor's delivery document shall be attached to the invoice as evidence of delivery.

(2) If the purchase price excludes the cost of transportation, the Contractor shall enter the prepaid shipping cost on the invoice as a separate item. The cost of parcel post insurance will not be paid by the Government. If transportation charges are separately stated on the invoice, the Contractor agrees to retain related paid freight bills or other transportation billings paid separately for a period of three years and to furnish such bills to the Government when requested for audit purposes.

(d) *Certification of Invoice* - The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the supplies for which the Government is being billed have been shipped or delivered in accordance with shipping instructions issued by the ordering officer, in the quantities shown on the invoice, and that such supplies are in the quantity and of the quality designated by the cited purchase order.

**OUTER SHIPPING CONTAINERS SHALL BE MARKED "FAST PAY"**

16. (This clause applies if this contract is for services and is not exempted by applicable regulations of the Department of Labor.)

**SERVICE CONTRACT ACT OF 1965** - Except to the extent that an exemption, variation, or tolerance would apply pursuant to 29 CFR 4.6 if this were a contract in excess of \$2,500, the Contractor and any subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended (\$1.60 per hour). However, in cases where section 6(e)(2) of the Fair Labor Standards Act of 1938 is applicable, the rates specified therein will apply. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

**ADDITIONAL GENERAL PROVISIONS**

**17. CHANGES** - The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in (i) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith, (ii) method of shipment or packing; and (iii) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for performance of this contract, whether changed or not changed by any such order, an equitable adjustment shall be made by written modification of this contract. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change provided that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim if asserted prior to final payment, under this contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

**18. TERMINATION FOR DEFAULT** - The Contracting Officer, by written notice, may terminate this contract in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event, the Contractor shall be liable for damages, including the excess cost of procuring similar supplies or services, provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence, the termination shall be deemed to be a termination for convenience under paragraph 15. As used in this provision the term "subcontractor" and "subcontractors" means subcontractors at any tier.

**19. TERMINATION FOR CONVENIENCE** - The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Section VIII of the Armed Services Procurement Regulation, in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

**20. ASSIGNMENT OF CLAIMS** - Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended (31 U.S.C. 203, 41 U.S.C. 15). However, payments to an assignee of monies under this contract shall not, to the extent provided in said Act, as amended, be subject to reduction or set-off. (See Clause 12.)

**ACCEPTANCE**

The Contractor hereby accepts the offer represented by this numbered purchase order as it may previously have been or is now modified, subject to all of the terms and conditions set forth, and agrees to perform the same.

NAME OF CONTRACTOR	
SIGNATURE	
TYPE NAME AND TITLE	DATE SIGNED

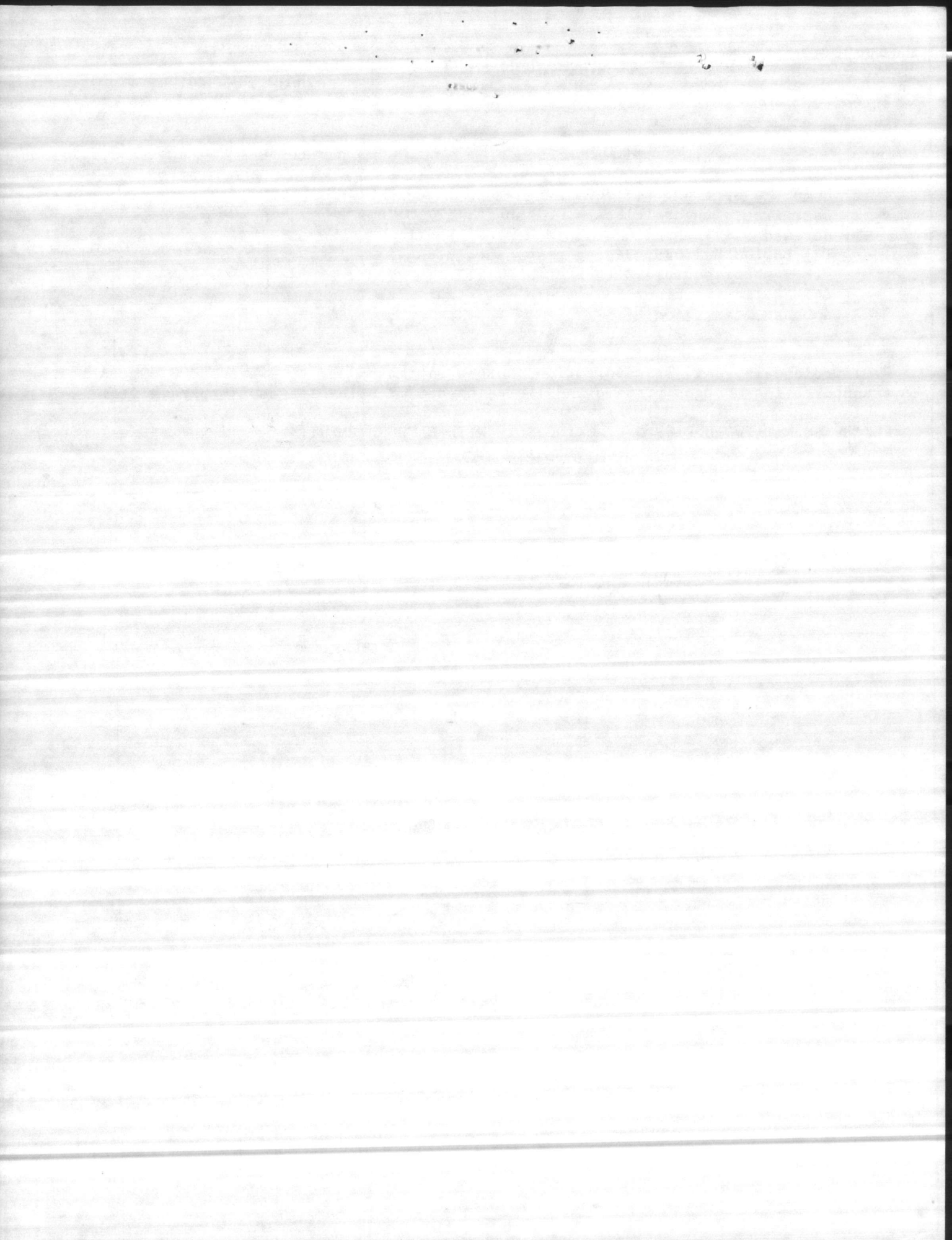
REMARKS

CONTINUATION SHEET

NAME OF OFFEROR OR CONTRACTOR

Johnston Pump Company

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p>Pump: <u>4 Section</u>: (1) <u>Discharge Head</u> 10x4 inch cast iron with stainless steel shaft; (2) <u>Column</u> screwed 5x1 inch #416 stainless steel shaft; (3) <u>Bowl</u> Model 6BS, 3 stage, #416 stainless steel shaft equiped with bronze impeller; (4) <u>Suction Strainer</u> #304 stainless steel with subbase, cast iron.</p>				
	<p>F.O.B. Glendale, CA. Transportation charges estimated not to exceed \$200.00. All transportation charges prepaid and listed on dealer's invoice as a separate item.</p>				
	<p>PLEASE SUBMIT TWO COPIES OF PACKING SLIP WITH EACH SHIPMENT.</p>				



**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. AMENDMENT/MODIFICATION NO <b>P00001</b>	2. EFFECTIVE DATE <b>78 FEB 07</b>	3. REQUISITION/PURCHASE REQUEST NO <b>M93058-7234-W001</b>	4. PROJECT NO. (If applicable)
5. ISSUED BY <b>Purchasing &amp; Contracting Division Bldg. 1211, Marine Corps Base Camp Lejeune, North Carolina 28542</b>	CODE	6. ADMINISTERED BY (If other than block 5)	CODE

*wap*  
*Due Date 5/20/78*

7. CONTRACTOR NAME AND ADDRESS <b>Johnston Pump Company c/o Richard Yountz Route 9, 17 Woodberry Way Greenville, SC 29609</b>	CODE	FACILITY CODE <b>1/JAH/mr</b>
--	------	----------------------------------

8. AMENDMENT OF SOLICITATION NO.	DATED _____ (See block 9)
<input checked="" type="checkbox"/> MODIFICATION OF CONTRACT/ORDER NO. <b>M67001-77-M-5691</b>	DATED <b>77 Sep 30</b> (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning \_\_\_\_\_ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. ACCOUNTING AND APPROPRIATION DATA (If required)

**1771106.2720 000 67001 0 067001 2D 000000 AA723 4793 2383T INC: \$431.00**

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a)  This Change Order is issued pursuant to \_\_\_\_\_  
 The Changes set forth in block 12 are made to the above numbered contract/order.

(b)  The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12.

(c)  This Supplemental Agreement is entered into pursuant to authority of \_\_\_\_\_  
 It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

Changes and/or additions as follows:  
 Block 19 Description:

- Change the Pump Column to 53 feet in lieu of 50.  
 Add one (1) each threaded suction case; a 10 foot suction pipe and a 304 stainless steel conical strainer in lieu of a basket strainer.
- Furnish a 12" x 6" discharge head in lieu of 10" x 4", and a larger cast iron sub-base for the larger discharge head.
- Furnish one (1) each impeller collet hammer for 1" dia. shaft.

Increase for paragraph 1	\$245.00	
Increase for paragraph 2	141.00	
Increase for paragraph 3	45.00	
<b>Total</b>	<b>\$431.00</b>	<b>New Total \$3,943.00</b>

Page 2: Change transportation charges to \$325.00 in lieu of \$200.00.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13.  CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT  CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN \_\_\_\_\_ COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR  
 BY \_\_\_\_\_  
 (Signature of person authorized to sign)

17. UNITED STATES OF AMERICA  
 BY *Ione O. Holsonback*  
**PURCHASING** (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)  
 16. DATE SIGNED

18. NAME OF CONTRACTING OFFICER (Type or print)  
**IONE O. HOLSONBACK**  
 19. DATE SIGNED  
**2-13-78**





Well depth	107'
pump level	70'
air line	70'
water level	34'
tail section	10'

TT 67

CRANK

Drumming

4"

8 stage



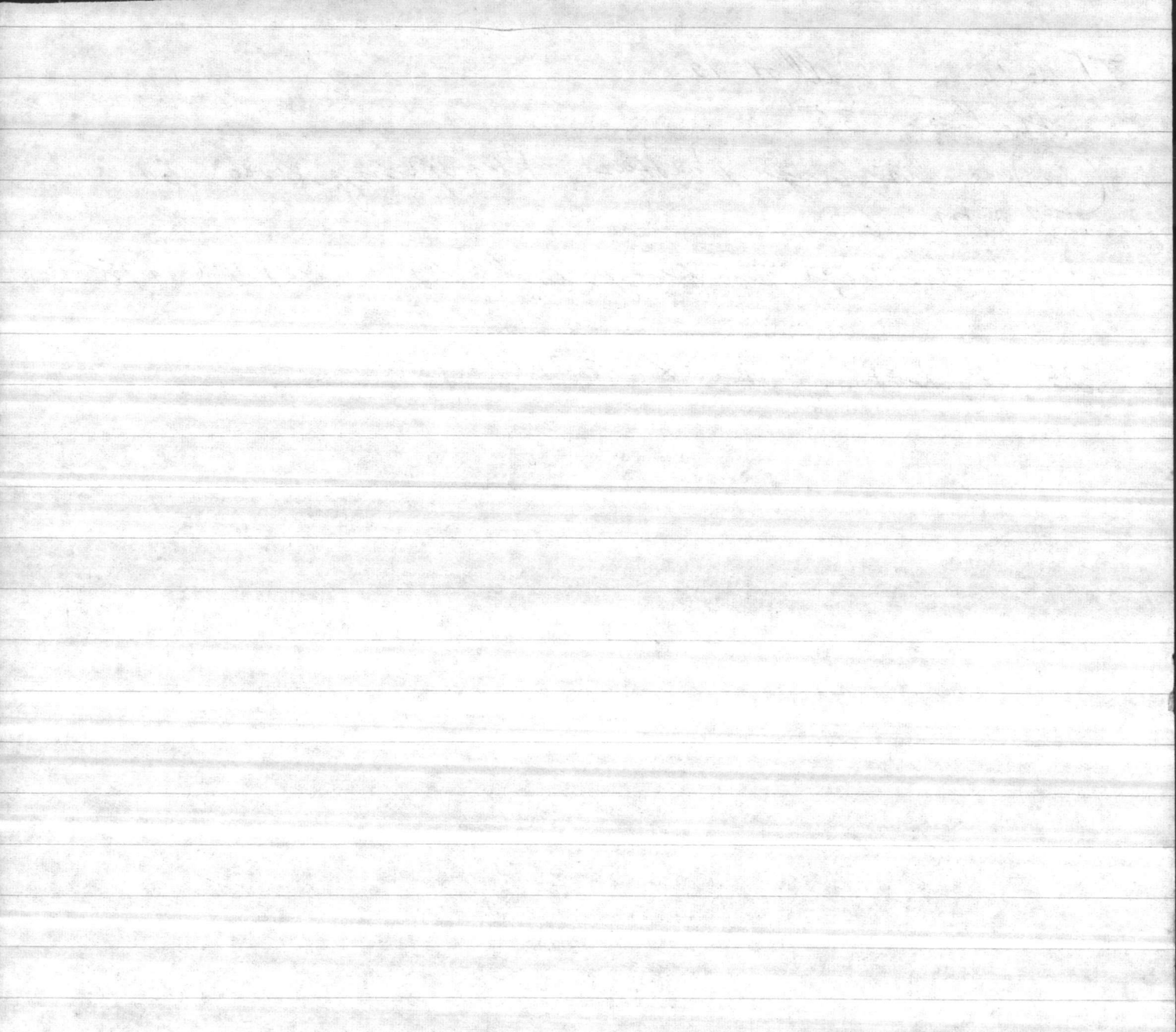
TT 67 Well # 12

Static 35'

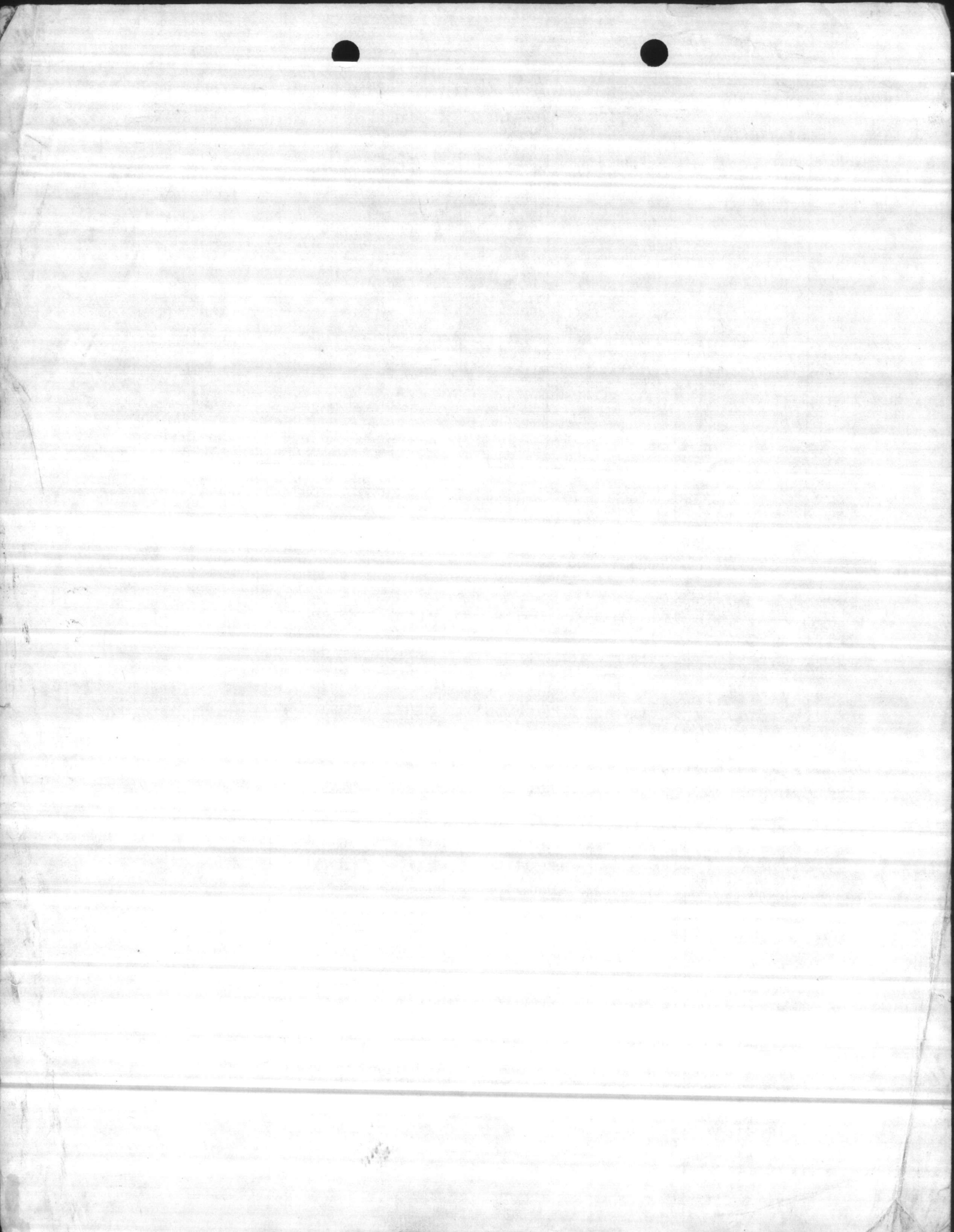
20 lbs discharge Pressure Pumping level 60'  
G.P.M. 167

14 lbs discharge pumping level 62' G.P.M. 178

25 lbs Dis. P.L. 58' G.P.M. (157)







# SYDNOR

## HYDRODYNAMICS... INC.

RICHMOND, VA. \_\_\_\_\_

November 15, 1971

Department of the Navy  
Officer in Charge of Construction  
Naval Facilities Engineering Command  
Marine Corps Base  
Camp LeJeune, North Carolina 28542

RE: 43-510/AA/HH - N62470-71-B-0528 - Test Well TT 67 A

Gentlemen:

Based on information obtained from test well at site TT 67 A, we make the following recommendation.

Conditions are marginal. Proceed with construction as per specifications. Set 18" pipe and grout to 64'. Install #20 slot screens from 68' to 94' with 10' tail pipe. Expected O/S 4.0 GPM per foot of drawdown, static level 31'6". Estimated capacity 140 GPM @68' pumping level. Test well indicates some interference from wells operating in area.

Enclosed for your approval are:

- A) Driller's Formation Log.
- B) Electric and Gamma Log.
- C) Well Construction Sketch.
- D) Pump Test Data. - *filed in General folder*

We would not recommend an open end well at this site due to fine sand which was removed while testing. Screen and gravel as proposed would eliminate this sand from coming in.

Your prompt action and approval will be appreciated.

Very truly yours,

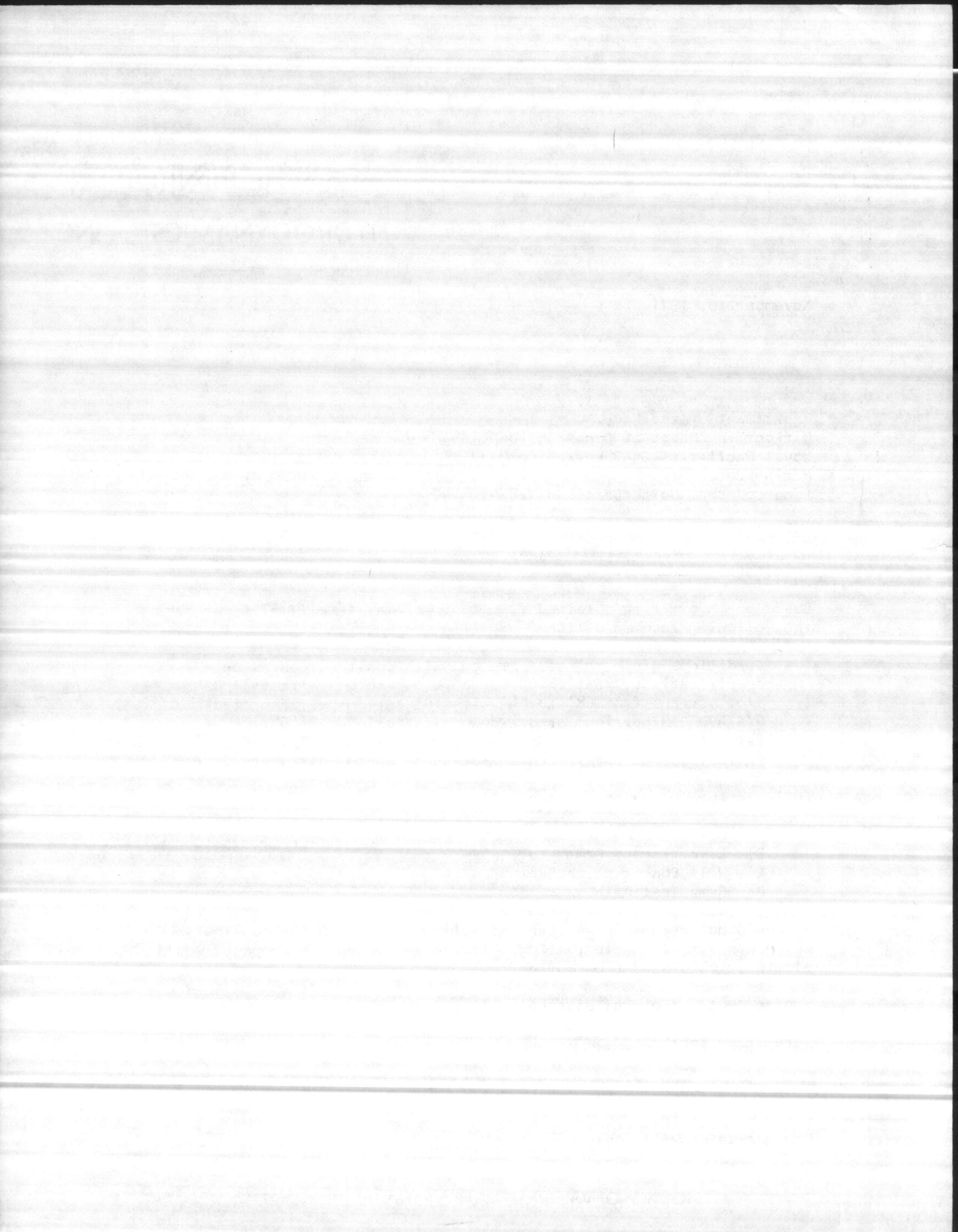


C. Calvin Norris  
Manager-Water Well Construction

CCN/asw

RICHMOND, VA., Box 27186, Zip 23261 Tel. (703)643-2725





TT67

LENGTH  
OF  
AIR LINE

STATIC  
LEVEL

PUMPING  
LEVEL

DRAW  
DOWN

DISCHARGE  
PRESSURE

CAP. PER  
FOOT OF  
PIPE  
*12M*

TOTAL  
CAP.

DATE

9-14-82

70

38

60

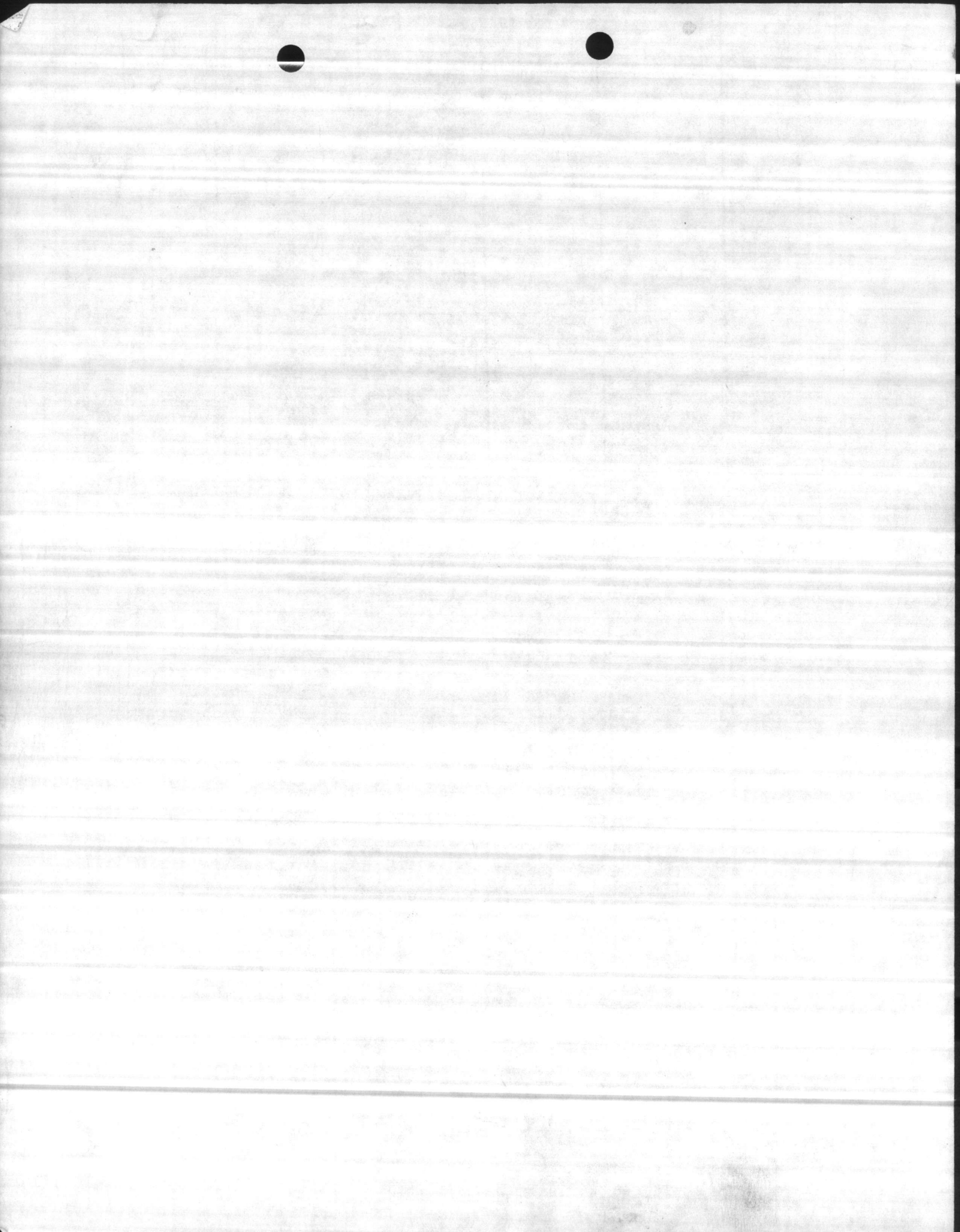
22

47

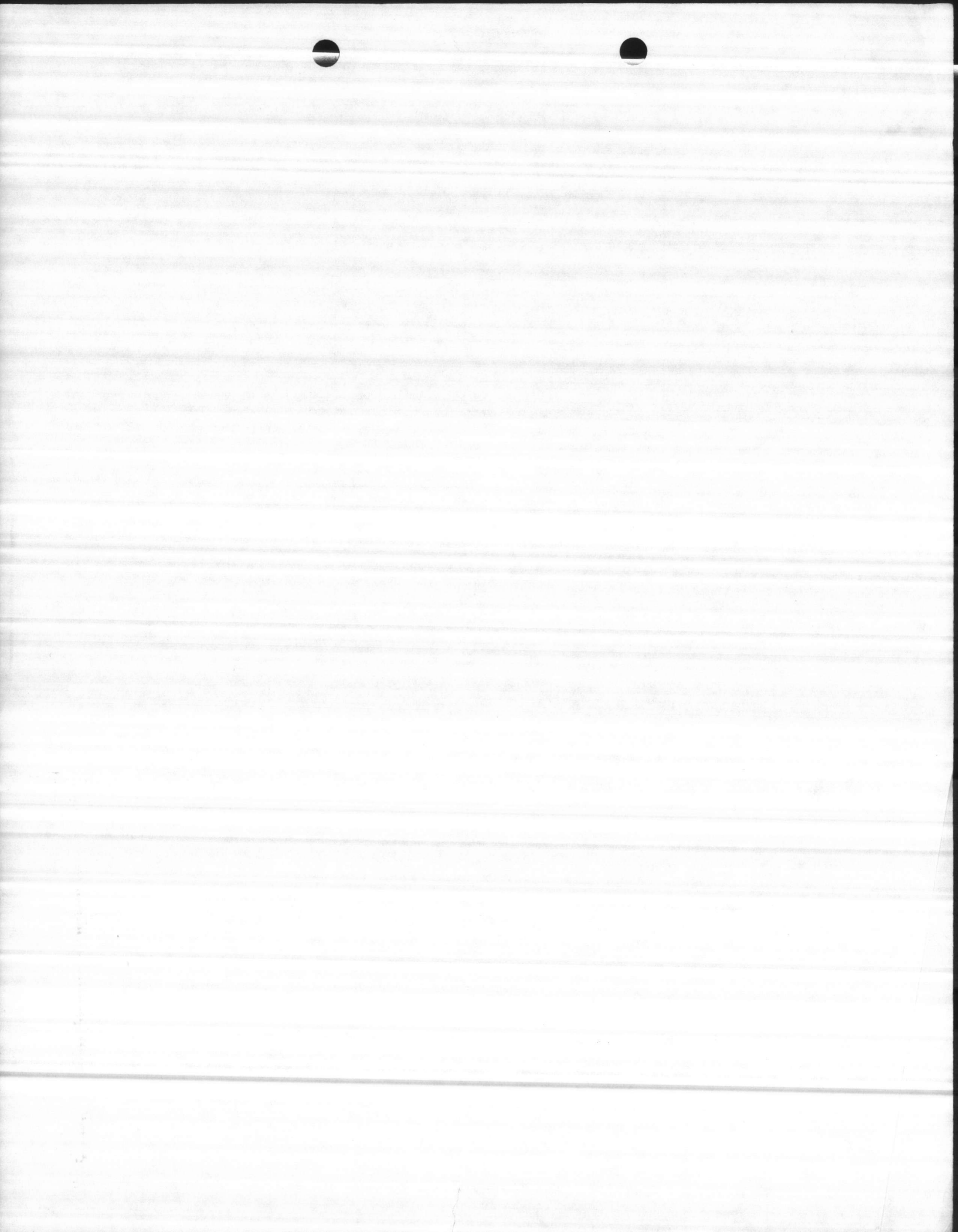
~~900~~  
900

REMARKS:

*used direct reading gage*







U.S. Marine Base

11-15-71

Camp Lejeune, N.C.

Fig 6.1

Onslow County

Well TT 67 A

Contract N62470-71-C-0528

Drilled by

Sydon Hydrodynamics, Inc

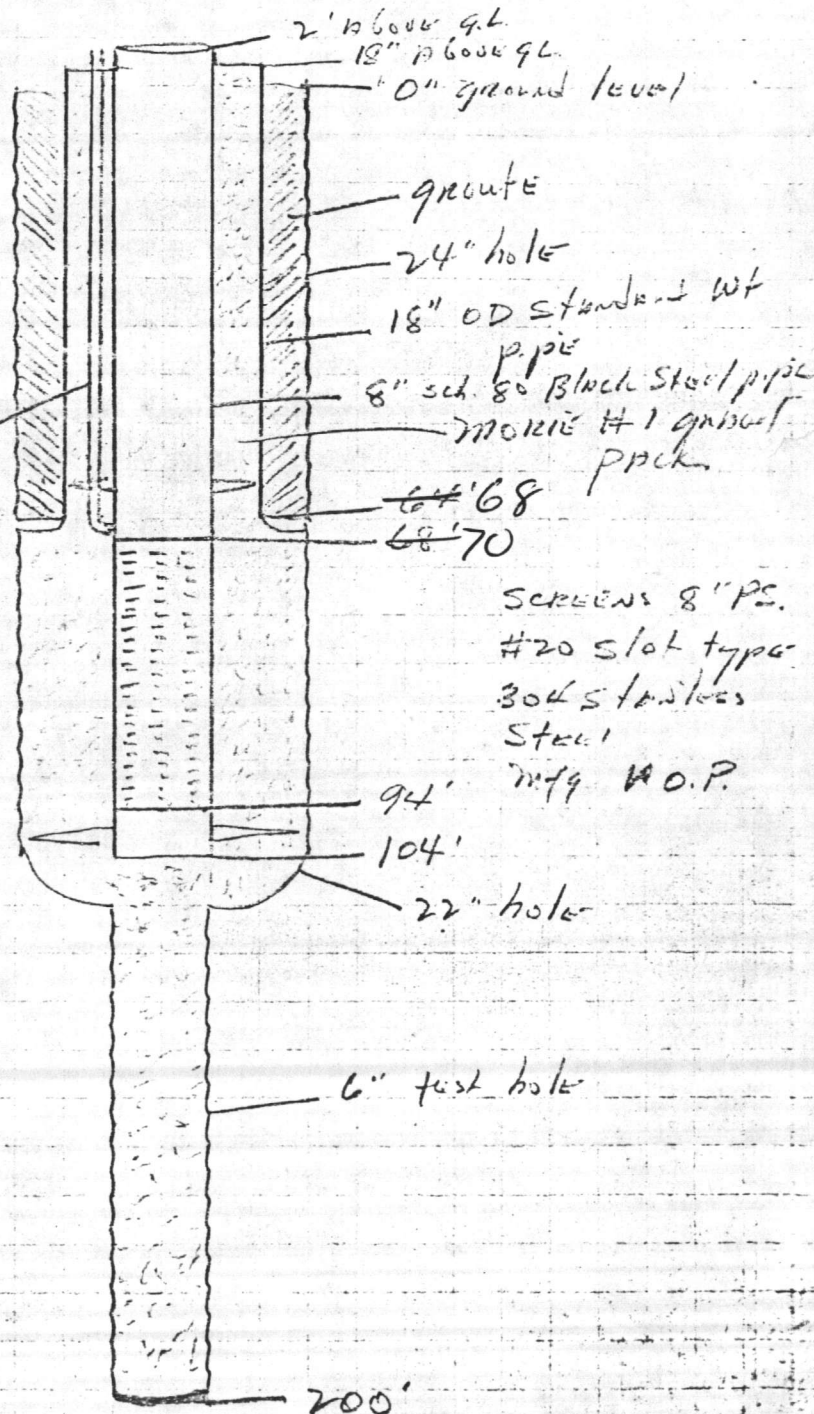
P.O. Box 27186

Richmond, VA 23261

Driller

Earl Seay

No scale - NORMS



1/2" galv pipe 1100'

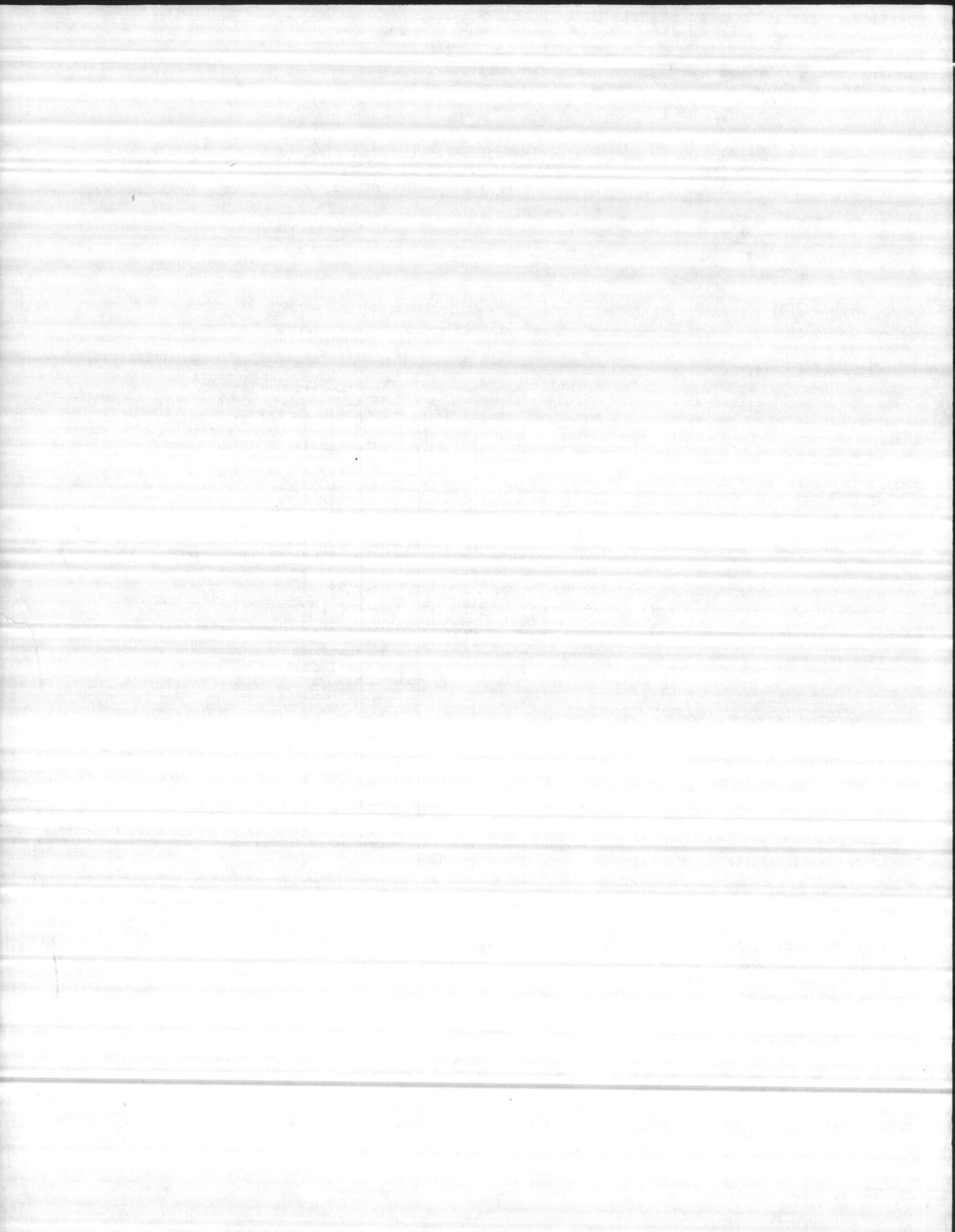
SCREENS 8" PS. #20 slot type 304 stainless steel

94' 104' W.O.P.

22" hole

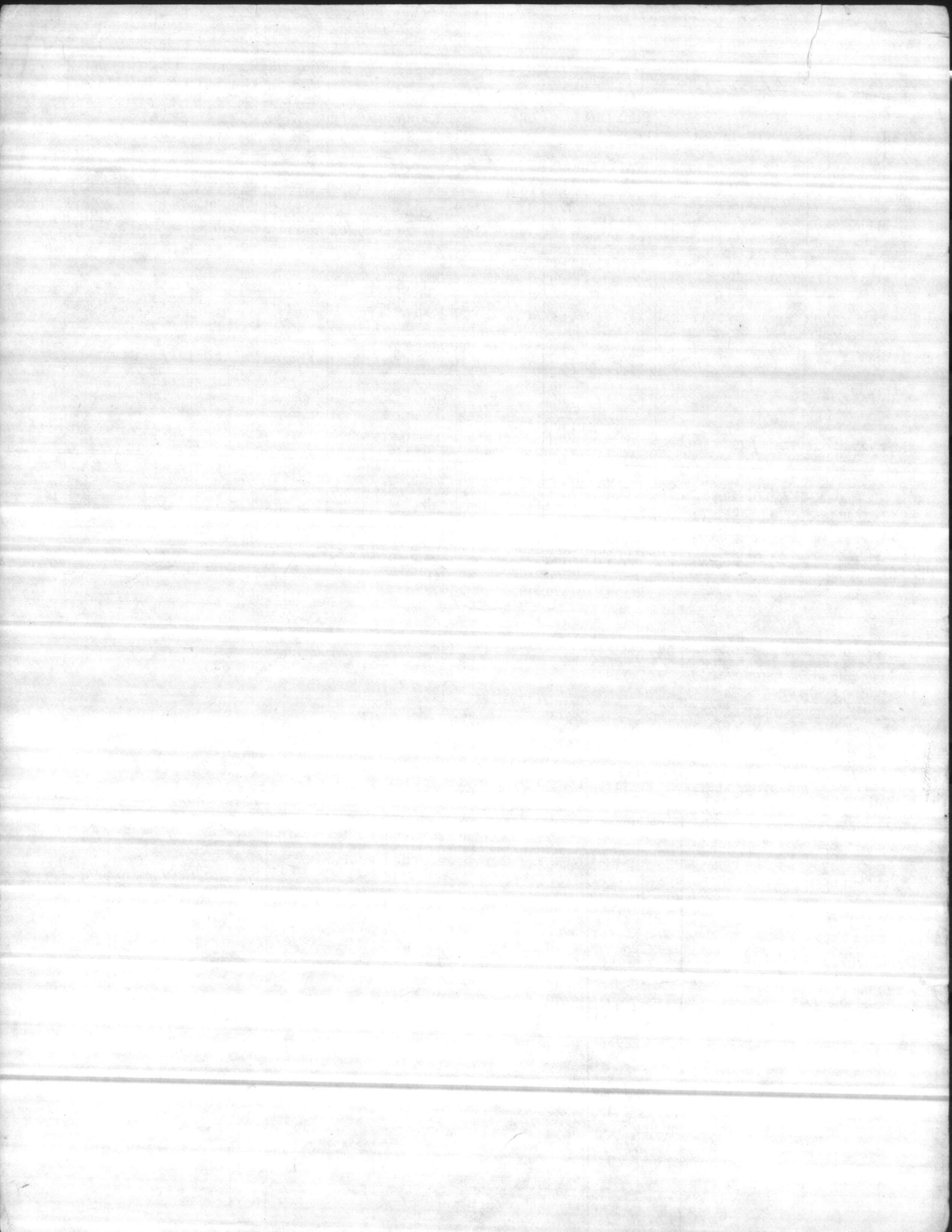
6" test hole

200'









Water

Well RR 227

Duped  
8/17/78  
JOHNSTON

4793-83

INSTALLED 1/31/79

PUMP VERTICAL TURBINE DEEP WELL  
DUAL DRIVE COMPLETE (LESS RIGHT ANGLE  
DRIVE + ELECTRIC MOTOR)

SIZE: 5"

STAGE-6

SETTING-50'

DOC. # 7234W001

GPM-150'

T.D.H. 130'

77 M 56 91

EA. 1 @ \$4,000.00

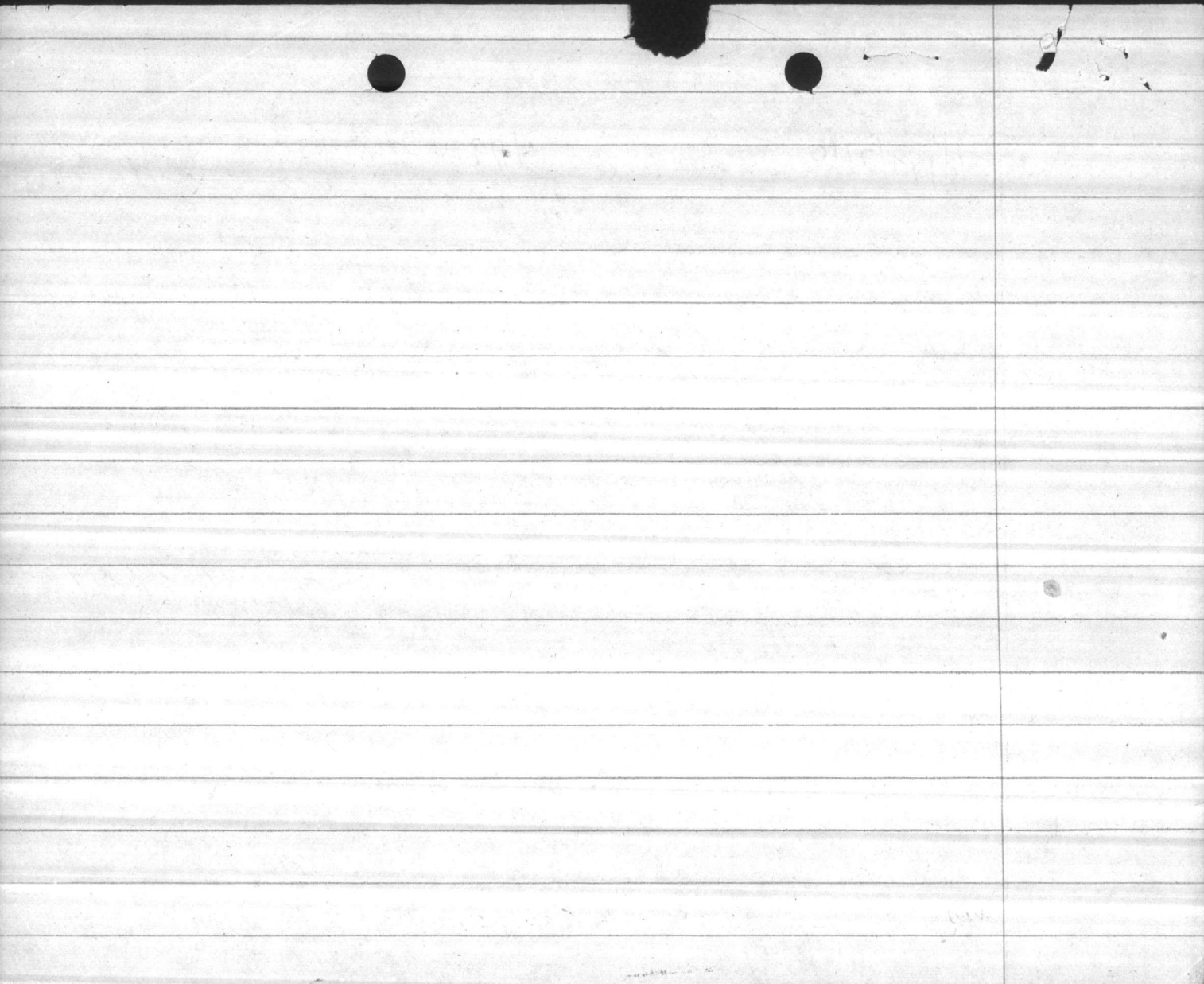
SS: JOHNSTON PUMP CO.

1775 EAST ALLEN AVENUE

GLEN DORA CALIFORNIA 91740

MR CRUMBLY TO SEND COPY OF PURCH. ORDER

10/20/78



TT 67  
9-13-85

AL	P-L	S-L	D-D	GPM	Psi	Time
70	55	32	23	104	38	15
	61			119	32	15

