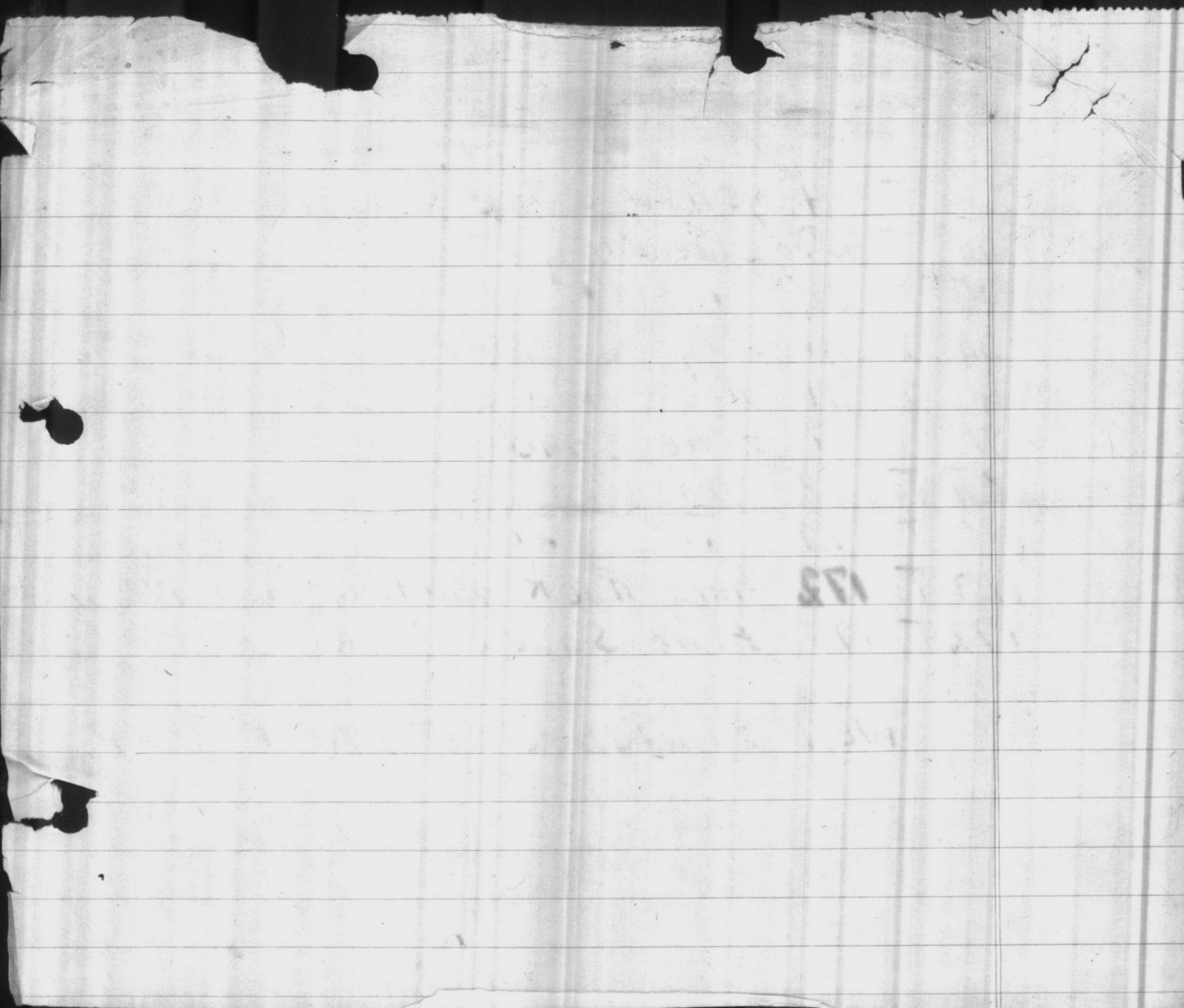


0' TO 5' Marsh Soil  
5' TO 14' yellow Sand  
14' TO 27' Blue Clay  
27' TO 34' " "  
34' TO 41' Clay and Sand  
41' TO 71' Rock and Sand  
71' TO 87' fine Sand  
87' TO 108' hard Rock  
108' TO 127' " "  
127' TO **172** hard Rock and fine Sand in thin layers  
172' TO 176' fine Sandy muck.

Well finished at 170'-0" deep



250 RPM. 86' Head

Elev. Pump Base 26.80

Elev. Ground 24.80

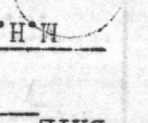
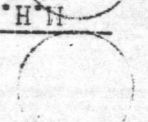
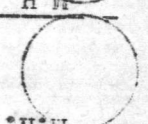
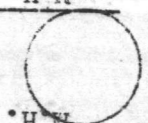
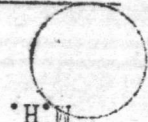
Static Water level - 11.

Draw Down 44.0' -33.00

Air line

Elev. D.D. Gauge 27.3

Recovers to



PLACE

DATE

WATER & SEWER MAINTENANCE

150 GPM. 117' Head

Elev. Pump Base	33.2
Elev. Ground	31.2
Static level.	16.0
Draw Down.	

Air line

Elev. D.D. Gauge

Recovers to 14.2 in 3 mi.

200 GPM.	0	Pressure	D.D.	- 30.8
188	"	34	"	- 28.8
175	"	1254	"	- 25.8
165	"	15.4	"	- 23.8
150	"	19	"	- 20.8
143	"	22.5	"	- 19.8

Well No. 10

WATER & SEWER MAINTENANCE

DATE Recor. ini 18.75 Below surface

Static 17.5 Below surface

$$\begin{array}{r} 10.5 \\ 2.3 \\ \hline 31.5 \\ 210 \\ \hline 24.15 \end{array}$$

$$\begin{array}{r} 60.00 \\ 25.43 \\ \hline 33.57 \end{array}$$

$$\begin{array}{r} 10.0 \\ 2.3 \\ \hline 32.4 \\ 216 \\ \hline 24.84 \end{array}$$

$$\begin{array}{r} 59.00 \\ 24.84 \\ \hline 34.16 \end{array}$$

$$\begin{array}{r} 1000 \\ 50 \\ \hline 50000 \end{array}$$

PLACE \_\_\_\_\_

M.H.

265 #PM. 20# Pressure 34.9 Below surface

$$\begin{array}{r} 60.0 \\ 24.1 \\ \hline 35.9 \end{array}$$

$$\begin{array}{r} 9.9 \\ 2.3 \\ \hline 29.7 \end{array}$$

M.H.

305 #PM 15# " 36.2 " "

$$\begin{array}{r} 39.0 \\ 24.1 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 19.8 \\ 22.97 \\ \hline 36.2 \end{array}$$

$$\begin{array}{r} 59.0 \\ 22.8 \\ \hline 36.2 \end{array}$$

M.H.

230 #PM 25# " 32.5 " "

17.0  
2.3

M.H.

188 #PM. 30# " 12.7 = 29.8 " "

$$\begin{array}{r} 52.5 \\ 350 \\ \hline 40.25 \end{array}$$

M.H.

200 #PM 19# " 12.2 = 30.9 " "

$$\begin{array}{r} 11.5 \\ 2.3 \\ \hline 34.5 \end{array}$$

$$\begin{array}{r} 60.0 \\ 26.5 \\ \hline 33.5 \end{array}$$

M.H.

$$\begin{array}{r} 39.0 \\ 30.8 \\ \hline - 8.2 \end{array}$$

$$\begin{array}{r} 59. \\ 60.00 \\ 40.25 \\ \hline 19.25 \end{array}$$

M.H.

$$\begin{array}{r} 230 \\ 26.45 \\ \hline 26.45 \end{array}$$

$$\begin{array}{r} 12.7 \\ 2.3 \\ \hline 38.1 \\ 254 \\ \hline 29.2 \end{array}$$

$$\begin{array}{r} 60.0 \\ 29.2 \\ \hline 30.8 \end{array}$$

$$\begin{array}{r} 75 \\ 9 \\ \hline 69.5 \\ 50 \\ \hline 5.0 \end{array}$$

M.H.

$$\begin{array}{r} 30.5 \\ 17.5 \\ \hline 128 \end{array}$$

Cg Bg Rg

	Cg	Bg	Rg
S	0	8	0
MON.	8	8	8
T.	8	8	8
W	8	8	8
T	8	8	8
F	8	8	8
S	8	0	8
SVN	8	8	0
M	0	8	0
T	8	8	8
W	8	8	8
T	8	8	8
F	8	8	8
S	8	0	8
SVN	8	0	8
MON.	0	8	0
	8	16	



250 A.P.M. 90' Head

Elev	Pump Base	23.2
"	Ground	21.2
	static level	9.2
	Draw Down	-14.1

air line 63.5

Elev. D.D. gauge +24.7

300	A.P.M.	19"	Pres.	D.D.	-15.3
280	"	22"	"	D.D.	-12.8
265	"	23"	"	D.D.	-11.7
250	"	25"	"	D.D.	-10.3
235	"	26"	"	D.D.	-8.9

Recovers to. +8.5 in 3 mi.

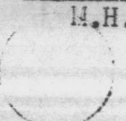
WATER & SEWER MAINTENANCE

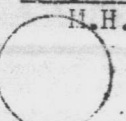
DATE \_\_\_\_\_

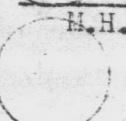
PLACE \_\_\_\_\_


M.H.  

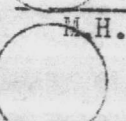

M.H.  

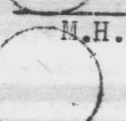

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  




Tent Camp

1914

1914

1914

1914

1914

1914

1914

1914

1914

THE NATIONAL ARCHIVES

1914

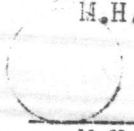
WATER & SEWER MAINTENANCE

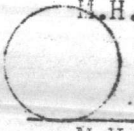
DATE \_\_\_\_\_

PLACE \_\_\_\_\_

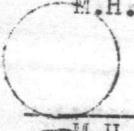
M.H.  

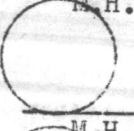

M.H.  

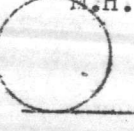

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  





UNCLASSIFIED

01/10/2001

WATER & SEWER MAINTENANCE

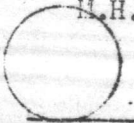
DATE \_\_\_\_\_

PLACE \_\_\_\_\_

M.H.  


M.H.  

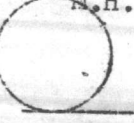

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M + J = 480 GPM.

I, K, L, M = 937.5 GPM.

H

I

J

K

L

M

D.D. - 16.3 PRESSURE 7" RECAL + 10.07

D.D. - 8.8 PRESSURE 24.0 + 14.14

H.

I.

J.

K.

L.

M.

39'

56'

45'

D.D. 41.3'

149.6

250

157.4 GPM

157.0 GPM

200 GPM

908.0

+ 10.1 (5 mi.)

+ 15.7

WATER & SEWER MAINTENANCE

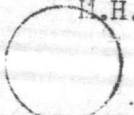
DATE \_\_\_\_\_

PLACE \_\_\_\_\_

M.H.  


M.H.  



M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


250 GPM. 100' Head

Elev. Pump Base

22.3

" Ground

30.3

Static Level

19.0 (16.3 P)

DREW DOWN

-31.0

AIR LINE 60'

Elev. D.D. Gauge

22.8

RECOVERS TO

12.3 IN 2 MINUTES

WATER & SEWER MAINTENANCE

DATE 200 GPM. 86' Head

PLACE \_\_\_\_\_

M.H.	Elev. Pump Base	34.4
"	Ground	22.4

M.H.	Static level	18.0
	DRAW DOWN	- 22.0

M.H.

M.H.

M.H.

M.H.

M.H.

M.H.



Well No. 18

Well No. 7

General Notes

1818

1818  
1819  
1820  
1821  
1822  
1823  
1824  
1825  
1826  
1827  
1828  
1829  
1830  
1831  
1832  
1833  
1834  
1835  
1836  
1837  
1838  
1839  
1840

WATER & SEWER MAINTENANCE


DATE \_\_\_\_\_

PLACE \_\_\_\_\_


M.H.  



M.H.  

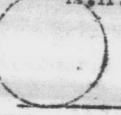

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


Well No. 16

Well No. 9

DATE

TIME

1

2

3

4

5

6


Well No. 10


Well No. 15

WATER & SEWER MAINTENANCE

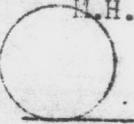
DATE \_\_\_\_\_

PLACE \_\_\_\_\_

M.H.  


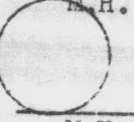
M.H.  


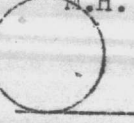
M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  





WATER & SEWER MAINTENANCE


DATE \_\_\_\_\_

PLACE \_\_\_\_\_

M.H.  


M.H.  


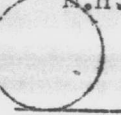
M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


Well Z 2 Montford Point

65  
3.2  
130.  
195  
208.0


WATER & SEWER MAINTENANCE

DATE \_\_\_\_\_

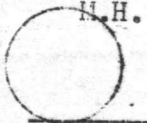
300 GPM. 170' Head

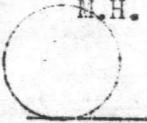
PLACE \_\_\_\_\_


M.H.  

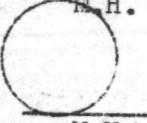

M.H.  


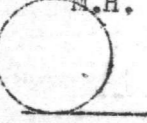
M.H.  


M.H.  


M.H.  


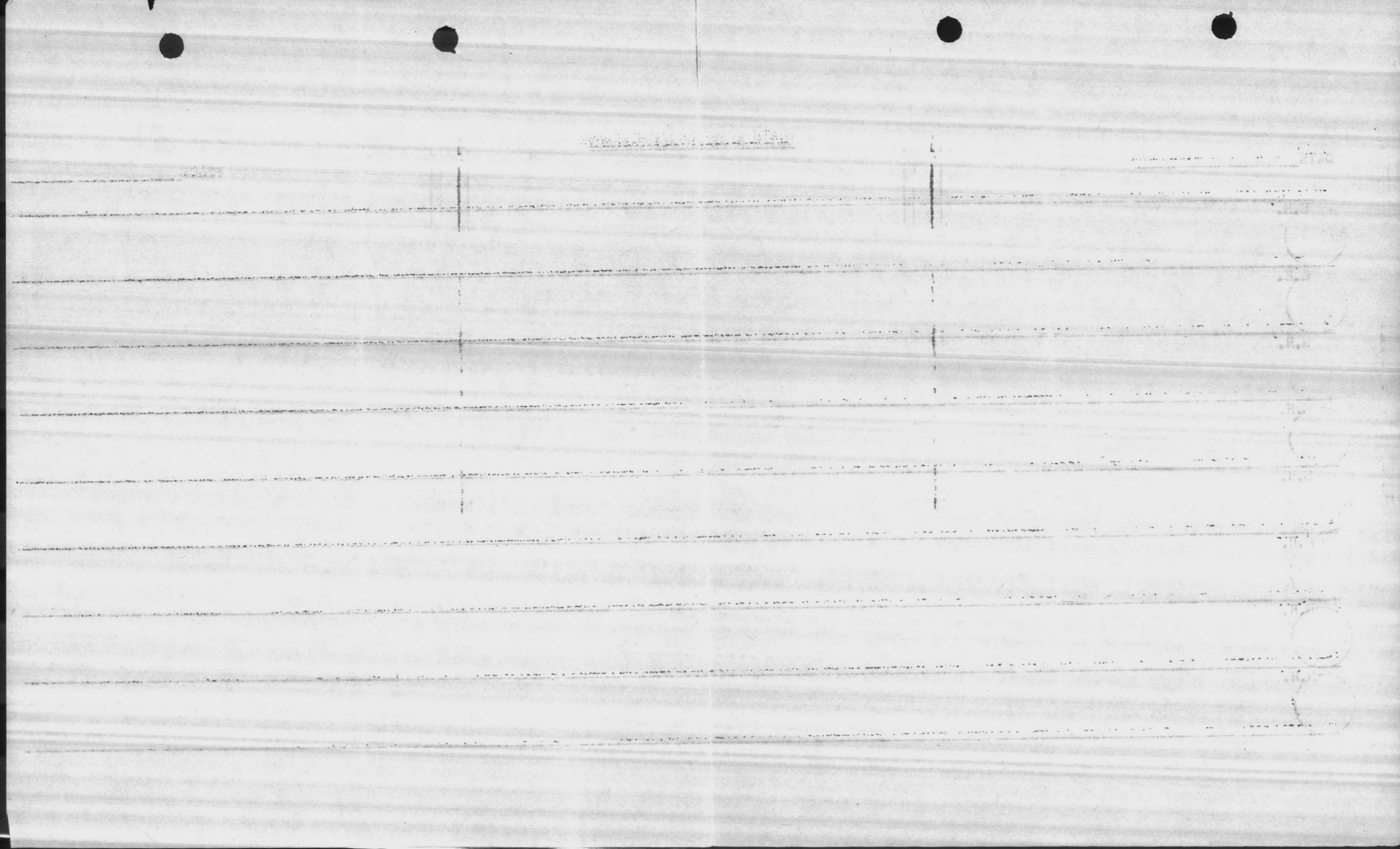
M.H.  


M.H.  


M.H.  


165 GPM.	70"	Pressure	D.D.	11"
247 "	62"	"	D.D.	7.5"
275 GPM	58"	"	D.D.	7.0"
300 GPM.	54"	"	D.D.	5.5

RECOVERS	to	10"	Pressure	3 MI
"	to	17.5	"	2 MI
"	to	16.	"	1 MI





Well No. 4

Well No. 1

250 GPM. 78' Head

Elev. Pump Base	26.40
Elev. Ground	24.40
Static level	15.40
Draddown	16.60

Air line

Elev. D.D. Gauge	27.0
------------------	------

Receivers	to	+9.0
-----------	----	------

260 GPM.	15# Press	+18	DD. -7.5
250 "	18# "	"	DD. -6.5
240 "	20# "	"	DD. -4.5
230 "	21# "	"	DD. -4.0

Well No. 1

Well No. 2

WATER & SEWER MAINTENANCE

DATE 1:50 P.M. 86' Head

PLACE

M.H.	Elev. Pump Base	25.00
M.H.	" Ground	23.00
	Static level	12.00
	Draw down 34'	- 22.00
M.H.	Air line	
	Elev. D.P. Gauge	+ 25.00
M.H.		
	Recovers to	+5 in 3 mi.
M.H.	175 P.M. 10# Pressure	42' D.D. - 17
	165 P.M. 12# "	40.5 " - 15.5
M.H.	155 P.M. 15# "	39 " - 14.0
	145 P.M. 18# "	37 " - 12.0
	140 " 20# "	36 " - 11.0
M.H.	125 " 23# "	34.5 " - 9.5
M.H.		
M.H.		

200 G.P.M. 88' Head

Elev. Pump Base 31.0  
 Elev. Ground 29.0  
 static level 15.0  
 DRAW DOWN - 27.0

Elev. D.D. Gauge 31.0  
 air line 62'  
 RECOVERYS to + 5 in 3 mi.

195	21 $\frac{1}{2}$ "	15"	PRESSURE	D.D. 54'	- 23
208	24 $\frac{1}{2}$ "	12"	"	D.D. 58	- 27
200	22 $\frac{1}{2}$ "	14"	"	D.D. 57	- 26
185	19 $\frac{1}{2}$ "	16"	"	D.D. 55	- 24
175	17"	18"	"	DD 53	- 22


WATER & SEWER MAINTENANCE

DATE \_\_\_\_\_

PLACE \_\_\_\_\_

M.H.  


M.H.  

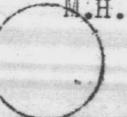

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


Well No. 14

Elev. GRAZE

+ 37.0

Elev. PUMP Base 33.4

Elev. FOUND 31.4

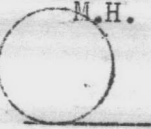
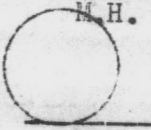
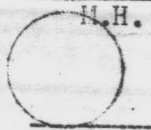
RECOVERED 3' mi. + 13.4

293 A.M.	15"	PRESSURE	DD - 5.2	Press. 8.4
275 A.M.	20"	"	DD - 5.3	- 9.0
250 A.M.	25"	"	- 3.5	- 9.8
220 A.M.	30"	"	- 1.1	- 10.8

WATER & SEWER MAINTENANCE

DATE \_\_\_\_\_

PLACE \_\_\_\_\_



Well No. 14

Prmp Base 35.3

Air line 60.

257	4 P.M.	24"	Pressure = RD - 15.15	- 8.5"	
250	4 P.M.	25"	"	- 4.7	- 8.7"
275	4 P.M.	20"	"	- 6.7	- 7.8"
300	4 P.M.	15"	"	- 8.6	- 7"

WATER & SEWER MAINTENANCE

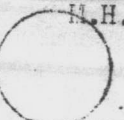
DATE \_\_\_\_\_

PLACE \_\_\_\_\_

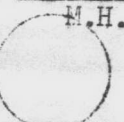
M.H.  

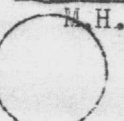

M.H.  

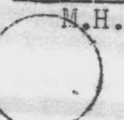

M.H.  


M.H.  


M.H.  


M.H.  


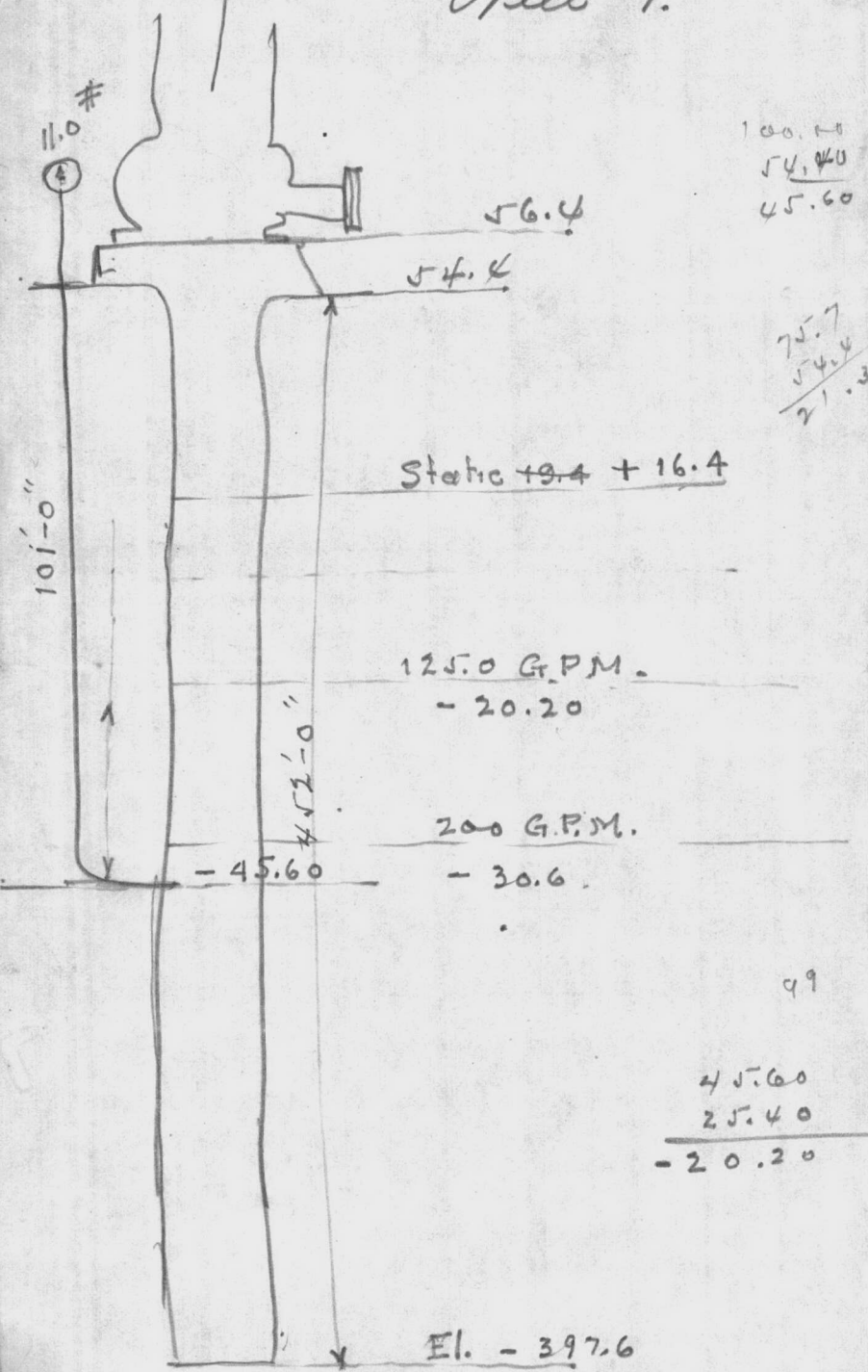
M.H.  


M.H.  




El. = 177.0

# Well T.



100.00  
 54.40  
 45.60

75.7  
 54.4  
 21.3

49

45.60  
 25.40  
 - 20.20

El. - 397.6

1941

4

# Daily log

10-2-62

61924

Well No.	ON	OFF	Turn ON	Turn OFF	Discharge Pressure	Drawdown Level	Static level	Oil	Brease	Clean	Notes
1	✓				27			✓		✓	J W
2	✓			1300	27			✓		✓	"
3	✓			1400	33			✓		✓	"
5	✓				29			✓		✓	RLH
6	✓			1700	14			✓		✓	"
8	✓				22			✓		✓	"
9		✓						✓		✓	"
10		✓	1330					✓		✓	J W
11	✓				23			✓		✓	"
12	✓				18			✓		✓	"
13	✓				27			✓		✓	"
14	✓				22			✓		✓	"
15	✓				20			✓		✓	"
16	✓				26			✓		✓	"
17	✓				# 21			✓		✓	"
18		✓	1400					✓		✓	"
19		✓						✓		✓	"
20	✓				10			✓		✓	"
21	✓				23			✓		✓	"
22		✓						✓		✓	RLH
23		✓	1700					✓		✓	"
24		✓						✓		✓	"
25		✓	1700					✓		✓	"
26		✓						✓		✓	"
27	✓			1700	31			✓		✓	"
28		✓	1700					✓		✓	"
29	✓				46			✓		✓	"
30		✓						✓		✓	"
31		✓						✓		✓	"
32	✓				60			✓		✓	"
33	✓				20			✓		✓	J W
34	✓			1450	12			✓		✓	"
35		✓						✓		✓	"
36		✓	1100					✓		✓	"
MI		✓	1000					✓		✓	"
MA	✓			1000	50			✓		✓	"

Casing

10 X 8

250 G.P.M. 85' Head

Elev. Pump Base	35.3
Elev. Ground	33.3
static level	9.3
Draw Down	-10.7

Air line 60'

Elev. Draw-down gauge 35.5

Recovers to

250 G.P.M.	25# Pressure	D.D. - 4.7
257 "	24# "	" - 5.2
275 "	20# "	" - 6.7
300 "	15# "	" - 8.6

250 G.P.M. 81' Head

Elev. Pump Base	30.8
Elev. Ground	28.8
Static level	12.3
Draw Down	-11.7

(Air line 60'  
Elev. D.D. Gauge 29.3)

Recovers to +10 in 3 minutes

305 G.P.M.	10# Pressure	D.D. - 14.2
290 G.P.M.	12.5# "	D.D. - 13.2
275 G.P.M.	15# "	D.D. - 11.4
250 G.P.M.	19# "	D.D. - 7.2
200 G.P.M.	29# "	DD - 2.6
188 G.P.M.	30# "	DD - 1.5

This Well should be discharged out side for 30 mi before pumping into line, and should not be pumped over 200 G.P.M. as it will pump sand.

Well No. 14

Well No. 15

250 GPM. 96' Head

Elev. Pump Base	33.4
Elev. Ground	31.4
Static level	13.4
Draw Down	-13.3

(AIR LINE 59'  
Elev. D.D. Gauge 34.0)

Recovers to +13.4

295 GPM. 15" Pressure	D.D. - 5.8
275 " 20" "	DD - 5.3
250 " 25" "	DD - 3.5
220 " 30" "	DD - 1.1

This pump should be discharged to waste if allowed to stand for more than 3 days

PLACE

250 GPM. 82' Head

Elev. Pump Base	32.7
" Ground	30.7
Static level	14.7
Draw Down	-1.3

(AIR LINE 60'  
Elev. D.D. Gauge 32.7)

Recovers to +14.7

205 GPM. 26" Pressure	D.D. + 5.7
250 GPM. 22" "	DD 3.1
265 GPM. 19" "	DD 2.2
300 GPM. 15" "	DD 1.3

WATER & SEWER MAINTENANCE

DATE

17 Well

3' Above Surface

Well 18

Static 25' from Gage

Shot off Head 33" D.D. 26'

140 RPM 19" 37

144 RPM 20" 41' from Gage

170 RPM 17" 43'

196 " 15.7" 43'

165 RPM 21" Pressure 43' D.D.

180 RPM 18" " 46' D.D.

200 RPM 15" " 49' D.D.

Recovery to 27' from Gage

$$\begin{array}{r}
 15 \\
 2.3 \\
 \hline
 45 \\
 30 \\
 \hline
 37.5 \\
 38 \\
 \hline
 72.5
 \end{array}$$

Shot off 32.5 - 32'

255 RPM No Head Pressure 43'

105 RPM 20" Pres D.D. 35'

145 RPM 15" " D.D. 38'

$$\begin{array}{r}
 2.3 \\
 20 \\
 \hline
 42.0 \\
 37 \\
 \hline
 83.0 \\
 17 \\
 2.3 \\
 \hline
 51 \\
 34 \\
 \hline
 39.1 \\
 41 \\
 \hline
 80.0 \\
 21 \\
 2.3 \\
 \hline
 63 \\
 42 \\
 \hline
 48.3 \\
 43 \\
 \hline
 91.3 \\
 15.7 \\
 2.3 \\
 \hline
 47.1 \\
 374.1 \\
 43 \\
 \hline
 98.1 \\
 80
 \end{array}$$

$$\begin{array}{r}
 32.5 \\
 2.3 \\
 \hline
 97.5 \\
 65.6 \\
 \hline
 74.7 \\
 32 \\
 \hline
 106.75 \\
 10.75 \\
 \hline
 117.5
 \end{array}$$

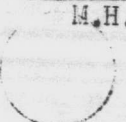
WATER & SEWER MAINTENANCE


DATE \_\_\_\_\_

PLACE \_\_\_\_\_


M.H.  



M.H.  

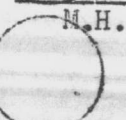

M.H.  


M.H.  


M.H.  


M.H.  


M.H.  


M.H.  




Tue. 30 MARCH 65 # 20 WELL:

got DR. Down Today 29 ft. with 15 LBs  
disch. PRES. WE ARE going to Run this well  
with BACK PRES. stem wide open. (10 min static  
READING WAS 32 FT.)  
STATIC READING 31 MARCH 37 FT.  
STATIC READING 1 APRIL 40 FT

TUE 30 MAR. 65 # 17 WELL

CARD SAYS 4 FT  
FOR D.D.

DRAW DOWN on #17 WAS 30 ft with Disch. PRES  
ON 17 LBs. WE LOWERED Disch PRES FROM 17 TO 10 LBs.  
CHECK ON D.D. WEDNESDAY AND CHECK FOR SAND.  
WEDNESDAY 31 MARCH Disch. PRES. 10 LBs. D.D. 13 FT - NO SAND.  
LOWERED PRES. TO 8 LBs. Today  
1 APRIL - PRES. 8 LBs. D.D. 13 FT. NO SAND.

TUE 30 MAR. 65 # 13 WELL

CARD SAY 3.8 FT<sub>0</sub>

DRAW DOWN WAS 12 FOOT WITH 28 LBs disch. PRES  
WE CHANGED Disch. PRES. TO 26 LBs. AND GOT A 10 FT. D.D.  
CHECK ON SAND AND GET A D. DOWN WEDNESDAY  
WEDNESDAY 31 MAR. <sup>disch.</sup> PRES. 26 D.D. 9 FT. NO SAND  
1 APRIL PRES 26 D.D. 9 FT. NO SAND  
MR. BARKER SAID TO COME DOWN TO 24 LBs PRES  
CHANGED TO 24 lbs. Disch pres, 2 April 5 APRIL 65 D.D. 6 FT NOSAND Disch pres 24

1 APRIL 1965

card says 18

# 3 WELL = 27 lbs disc PRES D.D. 12

Changed Disc PRES To 34

19 WE // D.D. 9 ft. card says 12

pres. was 18 lbs.

Changed pres. 1 april to 26 lbs got D.D. of 13 FT.

6 apr. pres. 24 = D.D. = 12 FT.

# 16 WELL Dich PRES 20 D.D. 0

changed PRES To 25 lbs.

16 WELL

5-5-65 Dich PRES 23 D.D. 0

Changed to 26 lbs. D.D. 4

SEPT. 30-1965 Changed pres to 28 P.R. 4

Water level from base of pump on # 3

20 fts 9 inches 20 Nov 65

DEPARTMENT OF THE NAVY  
DISTRICT PUBLIC WORKS OFFICE  
AND  
OFFICER IN CHARGE OF CONSTRUCTION  
FIFTH NAVAL DISTRICT  
NAVAL BASE, NORFOLK 11, VA.

02 ~~OK~~  
1 ~~OK~~  
62 ~~\_\_\_\_\_~~  
11 *File*

IN REPLY REFER TO:  
D-110:WRM:pk  
6240

12 April 1960

From: District Public Works Officer, Fifth Naval District  
To: Commanding Officer, Marine Corps Air Facility, New River,  
Jacksonville, North Carolina (PWO)

Subj: Well water check samples

Ref: (a) PWO MCAF Jacksonville, N.C. ltr 207:mb 13300 of 6 April 1960

1. Well water check samples collected on 6 April 1960 and forwarded by reference (a) were analyzed at the Sanitary Engineering laboratory, DPWO, as follows:

<u>Well No.</u>	<u>Hrs. Pumped at Time of Collection</u>	<u>pH</u>	<u>Chlorides as Clppm</u>	<u>Phenolphthalein Alkalinity as CaCO<sub>3</sub> (ppm)</u>	<u>Methyl Orange Alkalinity as CaCO<sub>3</sub> (ppm)</u>
2	1	7.45	34	0.0	192
3	1	8.15	84	2.0	332
4	1.5	8.0	59	0.0	312
5	1.5	8.15	54	2.0	314
6	2	8.2	114	2.0	344

*W. R. Mark J.*

THE HAVAS COUNTY  
MAY 1911

11

From: District Office  
To: District Office  
Subject: (1) ... (2) ... (3) ...

... of April 1911 ...  
... on April 1911 and ...  
... as follows:

Site No.	Collector	at Time of	Inspected	as of	of	of
102						
103						
104						
105						
106						
107						
108						

well #

# 13 - Static - 28 FT.

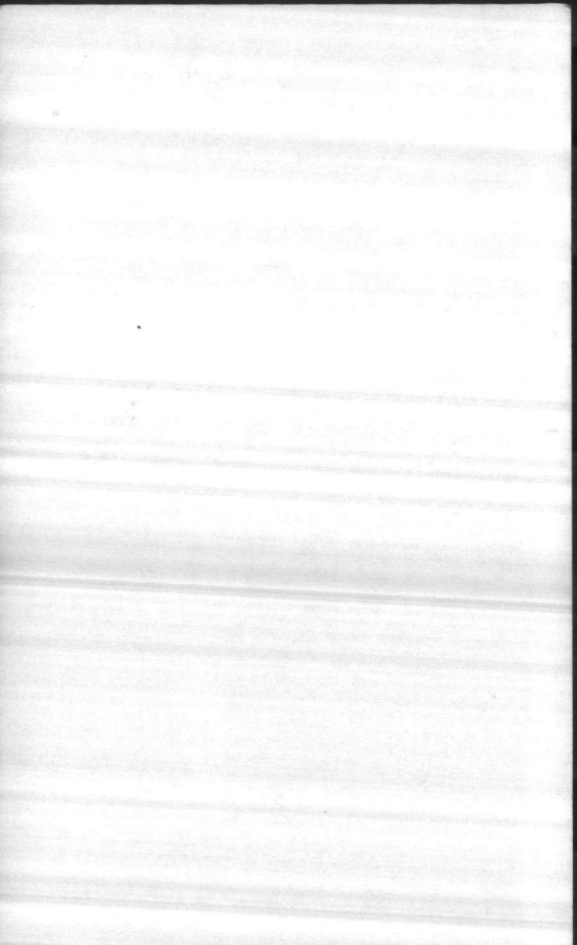
# 19 - " - 24 FT.

# 8 - STATIC - 30 FT.  
65 FT A. L.

# 3 - ~~Static~~ 27 FT

74-A L

---



U. S. Marine Barracks  
New River, N. C.  
17 Sept., 1941

Well - Water Supply - for CCC Camp on Reservation

By Virginia Machinery & Well Co.-

Location: 200' N. E. of Building Area Proper  
Date Drilled: Sept., 1941  
Drilling Equipment: Drop tool Rig & 10" drop tool bit  
Status: 10" diameter hole cased with 10" diameter pipe (extra heavy - 41.75¢ per foot) to a depth of 52' below surface. This pipe driven as drilling progressed. A 10" uncased hole drilled to 103' total depth. Because bottom strata contained sand, fine gravel was placed in bottom of hole so that the new & final depth of well is now 75'. See log of formations.

Log of Formations:

0 - 1'	Top Soil
1' - 12'	Red Clay & Sand
12' - 20'	Brown Clay & Sand
20' - 44'	Blue Clay - Very Gummy
44' - 46'	Brown Sand
46' - 65'	Coquina Rock (water bearing)
65' - 75'	Coquina Rock & little sand " "
75'	Final depth of well
75' - 90'	Brown Sand
90' - 103'	Gray sand & clay

Static Water Level: 21' below ground surface

Cleaning & Testing For Volume Output:

Equipment--

Air Compressor  
6" pipe line in well to point 61' below surface  
1 1/2" (pipe) airline inside of 6" pipe to point 52' below surface  
12" wier in earth ditch

Cleaning--

Air compressor attached to air line in well & water discharged from well (at rate of approx. 85 g.p.m.) for 4 hours (15 Sept., 1941)

U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
WASHINGTON, D.C.

LAND ACQUISITION REPORT

DATE OF REPORT: \_\_\_\_\_

PROJECT NAME: \_\_\_\_\_

SECTION: \_\_\_\_\_

DATE: \_\_\_\_\_

BY: \_\_\_\_\_

PROJECT NUMBER: \_\_\_\_\_

SECTION NUMBER: \_\_\_\_\_

The following is a summary of the land acquisition project described in the report. The project involves the acquisition of land for the purpose of [illegible]. The land is located in [illegible] and is owned by [illegible]. The acquisition is being made through [illegible]. The total area of land to be acquired is [illegible] acres. The project is being funded by [illegible].

Item	Quantity
Land	1.00
Water	0.00
Buildings	0.00
Other	0.00
Total	1.00

DATE OF REPORT: \_\_\_\_\_

PROJECT NUMBER: \_\_\_\_\_

SECTION NUMBER: \_\_\_\_\_

DATE OF REPORT: \_\_\_\_\_

BY: \_\_\_\_\_

The following is a summary of the land acquisition project described in the report. The project involves the acquisition of land for the purpose of [illegible]. The land is located in [illegible] and is owned by [illegible]. The acquisition is being made through [illegible]. The total area of land to be acquired is [illegible] acres. The project is being funded by [illegible].

BY: \_\_\_\_\_

The following is a summary of the land acquisition project described in the report. The project involves the acquisition of land for the purpose of [illegible]. The land is located in [illegible] and is owned by [illegible]. The acquisition is being made through [illegible]. The total area of land to be acquired is [illegible] acres. The project is being funded by [illegible].



17 Sept., 1941

Well- Water Supply- for CCC Camp on Reservation (2 page)

Test Data-- (16 Sept., 1941)

<u>Time</u>	<u>Reading of 12" wier</u>	<u>Equivalent G.P.M.</u>	<u>Draw Down from static level</u>	<u>Remarks</u>
8:20 Am	Pumping Started			Water very cloudy
8:30 "	21/8"	108	8'	" " "
9:00 "	21/8"	108	9'	" " "
9:30AM to 4:30 PM	21/8"	108	9'	Water cleaned up after 4 hrs. pumping
4:30 PM to 4:35 PM	2 1/2"	137	10'	
4:35 PM	Pumping Discontinued			

Note... Air compressor was operating at safe Maximum capacity all during test. Motor on compressor heated up during last 5 minutes due to over loading.

Remarks:

From the above test data - we note that at 108 G.P.M. continuous output we have a very limited draw down of 9'. However this was the greatest quantity of water obtainable from the well, with the equipment used. It would seem very evident that the well would very easily develop an output of 50 to 75% greater than the above figure- and still be within a safe draw down range.

The depth of the well during the pump test was 103'. After the test it was found that 10' of sand had been drawn into the bottom of the hole. It was at this time that the bottom portion of the hole was filled with fine gravel to make the present depth of the well 75'.

See separate report on Water Analysis.

J. B. Kneebel

Asst. Const. Engineer

STATE OF MISSISSIPPI

NAME	RESIDENCE	DATE	AMOUNT
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...
...	...	...	...

The undersigned, Clerk of the Court, do hereby certify that the above is a true and correct copy of the original as filed in my office.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of said Court, at the City of Jackson, this 1st day of January, 1911.

W. H. ...  
 Clerk of the Court

...

Well 624

#45 RR.

58' to water 12-1-66

D.C.P. 15 lb air line 50 ft

press.	inches in water	G.P.M.	D.D.
10 lb	10 1/2 in	137 G.P.M.	DD 26 ft
-15 lb	7 3/4 "	120 "	" 29 ft -
20 lb	4 1/2 "	100 "	" 34 ft

Well 625

10C6XB.

D.C.P. 25 lb air line 76.5

20 lb	10 1/2 "	137 G.P.M.	D.D.	21 ft
25 lb	9 "	128 "	"	24 "
34 lb	5 1/2 "	104 "	"	30 '
40 lb	3 "		"	35 '

Well 626

D.C.P. 23 lb air line 59 ft = S.L. 48

18 lb	23 "	190 G.P.M.	DD	35 "
23 lb	20 1/2 "	157 "	"	38 "
28	14 "	201 "		37 "



Well 608 Pump Base + 31.7 air line 60'

D.C.P 16lb

GPM

DD

inches in water

16 lb

20.3

12ft

23  $\frac{1}{2}$

13 lb

22.2

8ft

2.8

19 lb

14.0

16

11

Well 631 Pump Base + 35.2 air line 80'

D C P 31 to P.S.

DD

water inches

31 lb

15.7

50ft

14"

28 lb

16.7

44

16"

25 lb

16.2

41

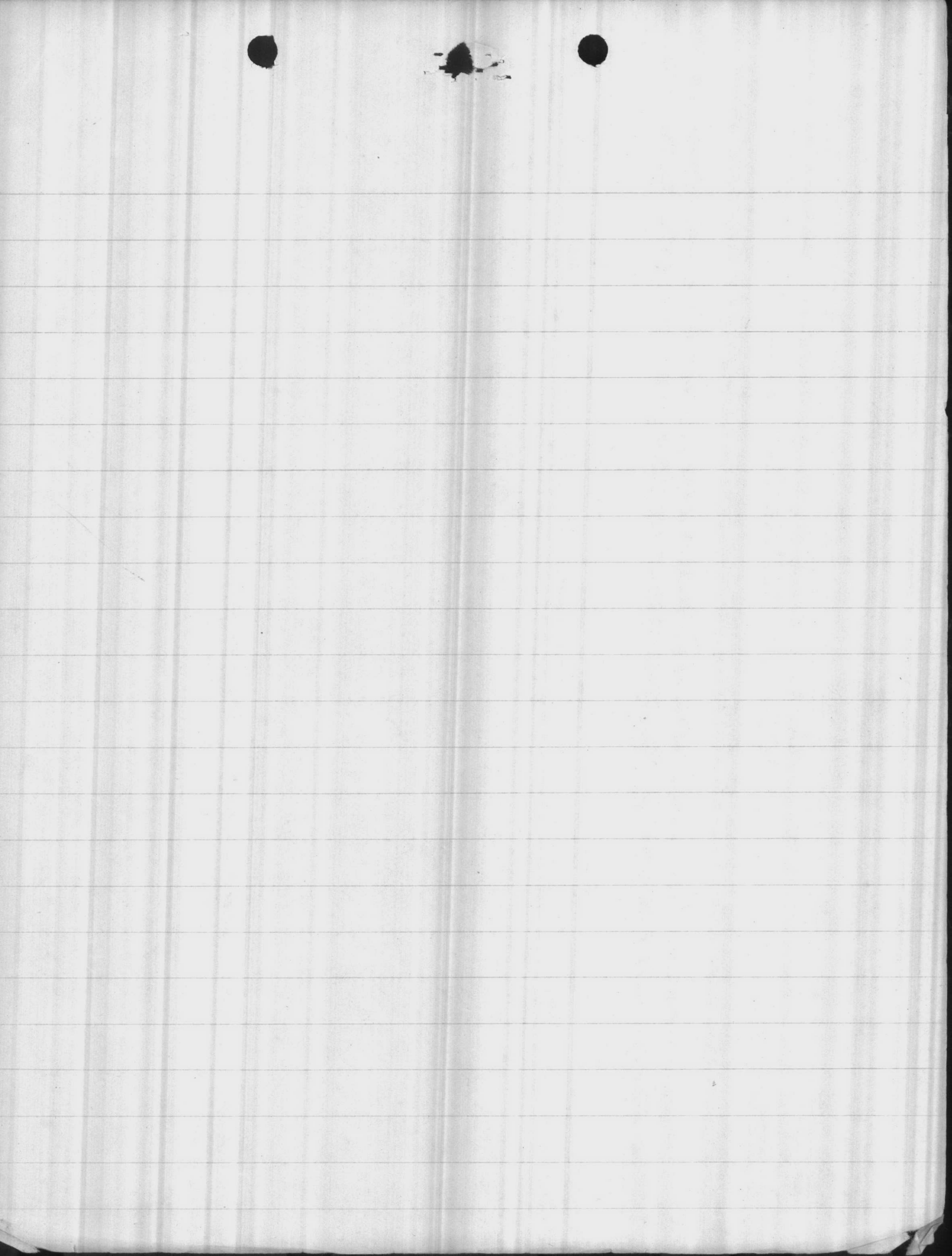
15

35 lb

9.0

54

4  $\frac{1}{2}$



Well 627

D.C.P. 31 lb air line 68'

25 lb	18"	178 G.P.M.	DD	5'
31 lb	8"	122 "	DD	13'
36 lb	5"	100 "	DD	19'

Well 628

D.C.P. 43 lb air line 50'

out = 1 gpm and sand = as much sand as water

Well 629

D.C.P. 39 lb

34 lb	29 1/2"	228 G.P.M.	D.D.	13 ft
39 "	24"	205 "	DD	20 ft
45 "	14"	157 "	DD	27 ft

Well 632

D.C.P. 60 lb air line 63.5'

40 lb	19"	183 G.P.M.	DD	26 ft
50 " Here -	12"	146 "	DD	34 "
55 "	10 1/2"	137 "	DD	39 "
60 "	6 1/2"	111 "	DD	42 "
65 "	2	—	DD	45 "





Well 609 Base Ele. +31.3 air line 61'  
 DCP 18lb.

	DPM	DD	in air water
18lb	115	24ft	7"
21"	108	25ft	6"
25"	102	26ft	5 $\frac{1}{4}$ "
15	119	23ft	7 $\frac{1}{2}$ "

Well 606 B Ele. +32.4 air line 70'  
 DCP 14lb

	DPM	DD	in air water
14lb	199	18ft	22 $\frac{1}{2}$ "
11lb	221	14ft	27 $\frac{3}{4}$ "
18lb	170	20ft	16 $\frac{1}{2}$ "
21lb	140	22ft	11"

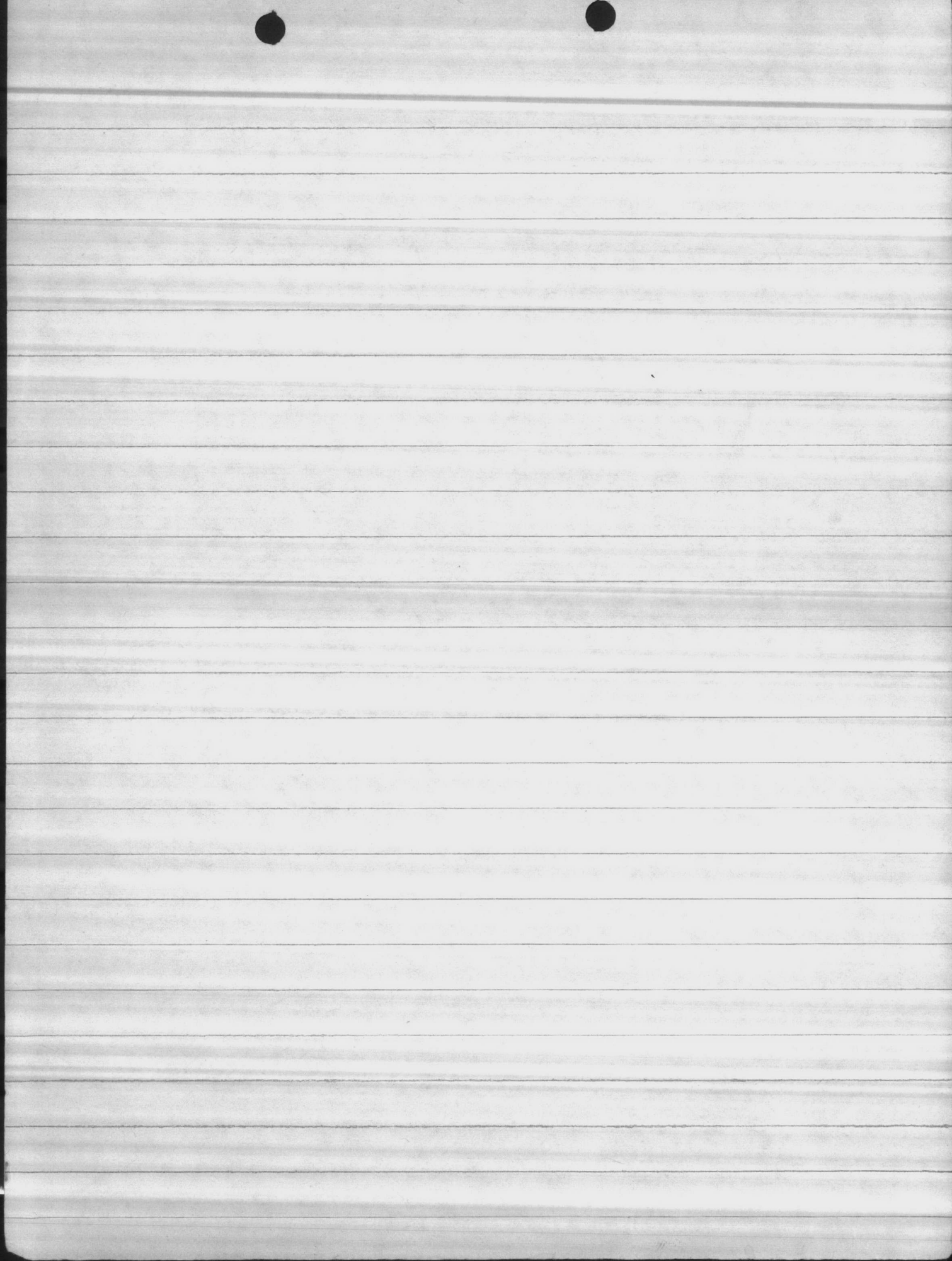


## WELL TESTS

1-22-68

WELL #634 — pres. 6# —  $1\frac{1}{2}$ "  
" 4# —  $1\frac{1}{2}$ "  
" 0 — 2" — pulling water down 8'

WELL #633 — pres. 15# — 0 — No water  
" 10# —  $\frac{3}{4}$ "  
" 5# —  $2\frac{1}{4}$ "  
" 0 — 3" — pulling water down 0'  
pumping level same as  
static.



26 MAY 65  
# 17 WELL

G.P.M TEST

D.D. 16' with 7 LBS. Disch. PRES  $\bar{G}$ P.M. would not Register

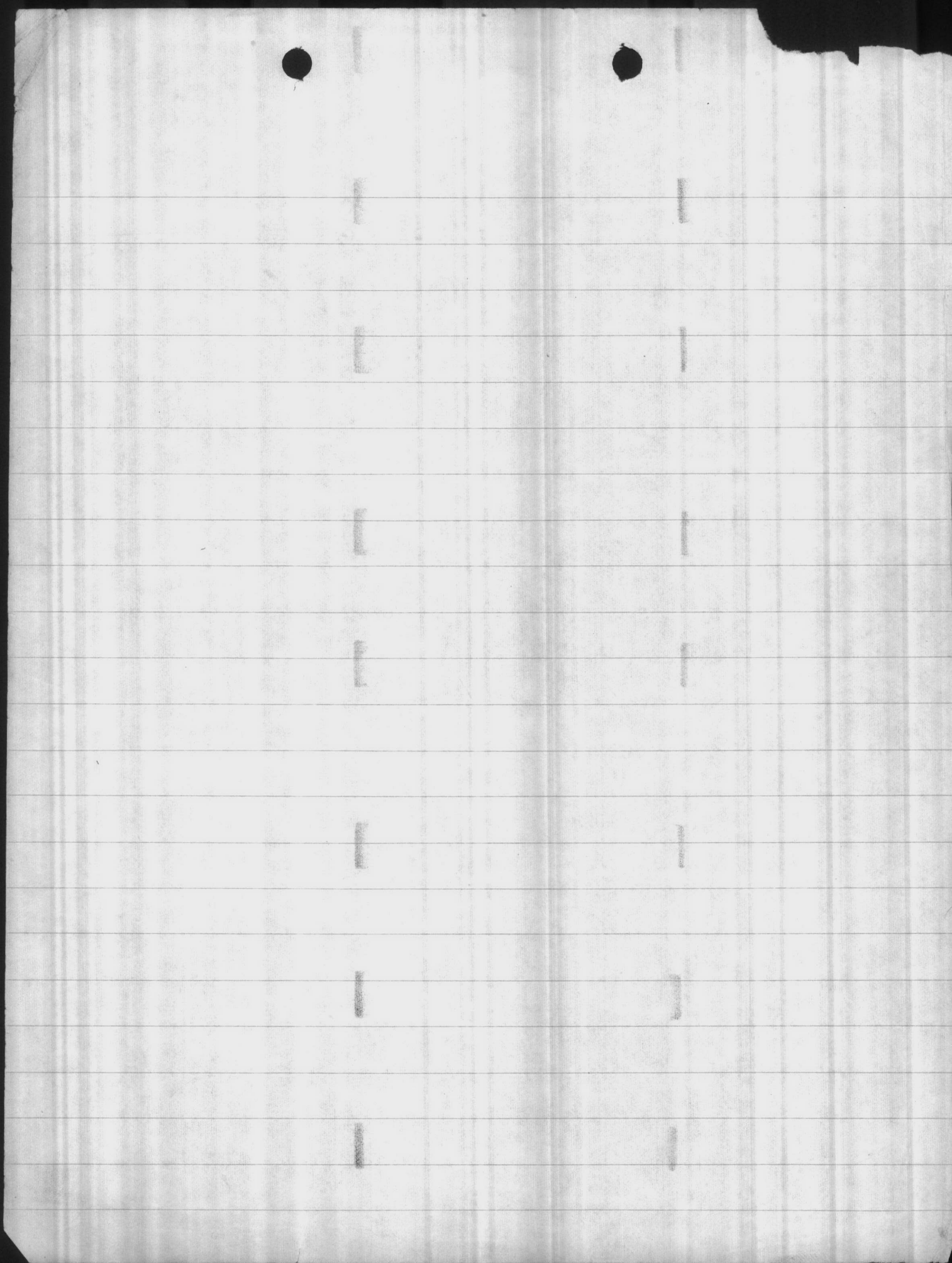
13.6

# 1 WELL 28 MAY 65

D.D.	30 FT.	Disch PRES.	24 <sup>LBS</sup>	$\bar{G}$ .P.M.	Less THAN 100
D.D.	18 FT	Disch PRES.	10 <sup>LBS</sup>	$\bar{G}$ .P.M.	164
D.D.	21 FT.	" "	15 " ✓	"	149 ✓
D.D.	26 FT	" "	20 "	"	108
D.D.	28 FT	" "	23 "	"	104

D.D. 13 FT. Disch. PRES 2<sup>LBS.</sup>  $\bar{G}$ .P.M. 210

D.D. 14 FT Disch. PRES. 5<sup>LBS.</sup>  $\bar{G}$  P.M. 197



WATER ANALYSIS

By Sr N.H. Kellam

Date Oct 3 - 41

Sample from Supply Well Per. Area

500 ft Deep 1st Well

By Va. Well & Mach. Co

Total Solids \_\_\_\_\_ PPM Volatile Solids \_\_\_\_\_ PPM

Suspended Solids \_\_\_\_\_ " Dissolved Solids \_\_\_\_\_ "

Phenolphthalein Alkalinity 260 " Silica \_\_\_\_\_ "

Total Alkalinity 360 " Ferrous Iron \_\_\_\_\_ "

Chlorides 4900 " Total Iron \_\_\_\_\_ "

Sulphates \_\_\_\_\_ " Aluminum \_\_\_\_\_ "

Carbonates 200 " Calcium \_\_\_\_\_ "

~~Bicarbonates~~ Hydroxides 160 " Magnesium \_\_\_\_\_ "

Sodium \_\_\_\_\_ "

pH 8.4 + Soap Hardness as CaCO<sub>3</sub> \_\_\_\_\_ "

Mineral Hardness as CaCO<sub>3</sub> \_\_\_\_\_ "

Odor \_\_\_\_\_

Turbidity \_\_\_\_\_

REMARKS \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

*[Faint, illegible handwriting on lined paper, possibly bleed-through from the reverse side. Some words like "Well" and "Deep" are faintly visible.]*



RR?

1- 19 67

## DIRECT READING GAUGE

47 LENGTH OF AIR LINE 67 FT  
 D.D. READS 64 FT

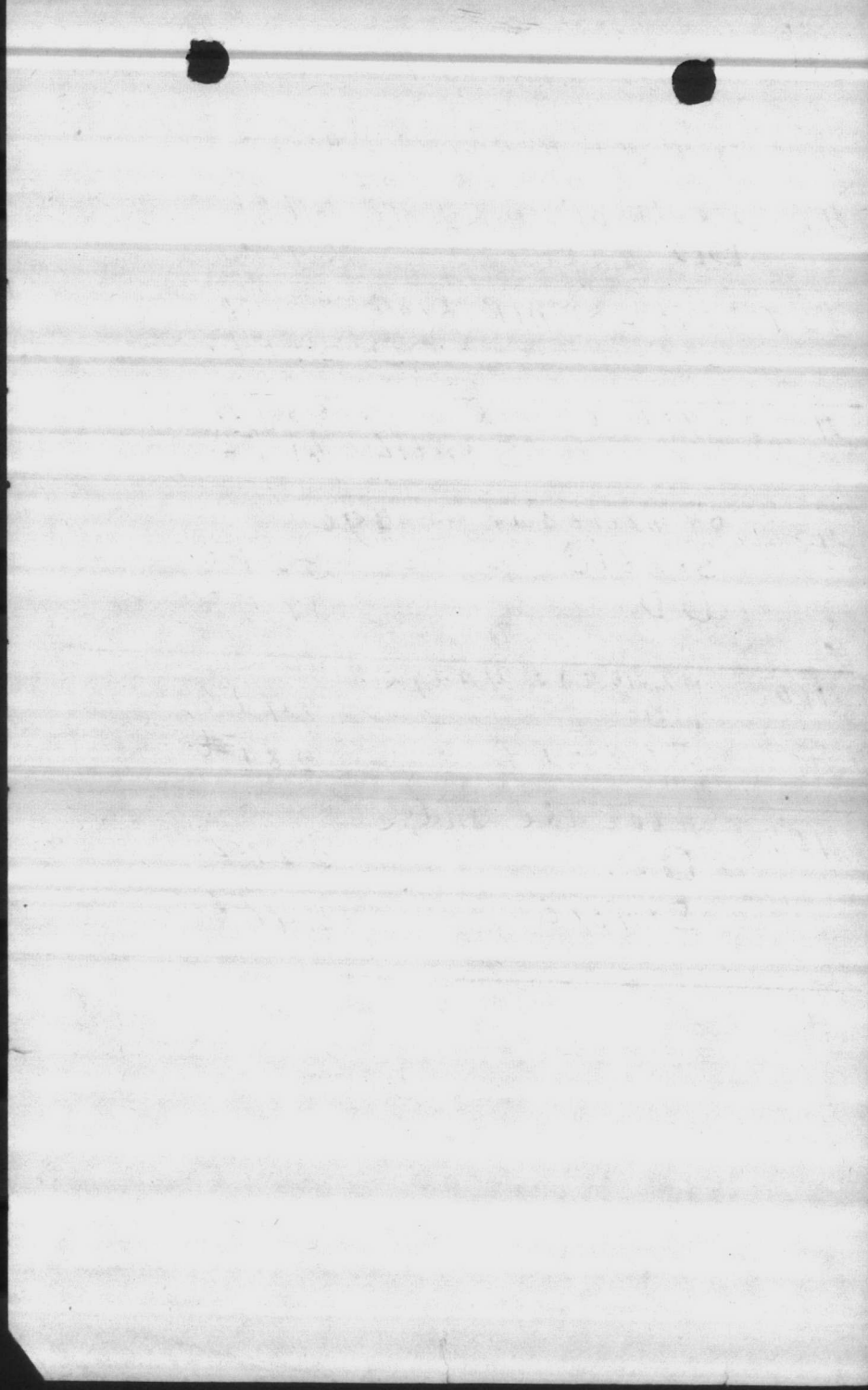
227 LENGTH OF AIR LINE 52 FT.  
 D.D. 51 FT.

45 LENGTH OF AIR LINE 85 FT.  
 STATIC 61 FT.

43 ON ALTITUDE GAUGE  
 STATIC - - 32 FT.  
 D.D. 17 FT.

110 ALTITUDE GAUGE  
 D.D. - - 14 FT.  
 STATIC - - 28 FT.

109 ALTITUDE GAUGE  
 D.D. \_\_\_\_\_ 22 FT.  
 STATIC 24 FT.



Marine Barracks  
New River, N. C.  
June 19, 1942

WELL-PERMANENT WATER SUPPLY  
By Layne Atlantic Co.

Well No. 2  
At C. C. C. Camp

This is the second well at this camp. The first one was drilled by Virginia Machine & Well Co.

Location: 80' west of center line of access road at station 20 / 16.6.

Date Drilled: June 1942

Drilling Equipment: Rotary Rig and Bits.

Status: 23" hole drilled to depth of 50'.  $4\frac{5}{8}$ " of 18" casing set and the annular space filled with cement grout. A  $17\frac{1}{2}$ " hole drilled to a total depth of 102 feet.

Log of Formations:	0 to 41'	Yellow clay with thin layers of fine
	41' to 49'	Fine sand shell muck. (sand)
	49' to 71'	Hard shell rock
	71' to 79'	Shell rock and fine sand
	79' to 93'	Soft rock and fine sand
	93' to 95'	Fine sand and muck
	95' to 102'	Blue clay

Remarks: Due to the presence of fine sand it was necessary to construct a gravel wall well. The fine sand slides very bad.

Gravel Wall Construction: 90 ft. of steel pipe with sections of armor iron screen was lowered into the well and the annular space was filled with a special  $\frac{1}{4}$ " washed gravel.

Log of Screen Settings:	0 to 50'	8" steel pipe
	50' to 60'	8" screen
	60' to 70'	8" steel pipe
	70' to 75'	8" screen
	75' to 85'	8" steel pipe
	85' to 90'	8" screen

The steel pipe was threaded joints and the screen was welded.

Static Level: 15.5' below surface.

Air Lines: 60' of  $\frac{1}{4}$ " pipe

1945  
1946  
1947

MEMORANDUM FOR THE RECORD

DATE: 10/10/47  
BY: [Name]

Reference is made to the report of the [Name] dated [Date] regarding the [Subject].

The [Name] has advised that the [Subject] is being handled as a [Type] case.

It is recommended that the [Subject] be [Action].

The [Name] has also advised that the [Subject] is being handled as a [Type] case.

Very truly yours,  
[Signature]

10/10/47  
[Name]

10/10/47

The [Name] has also advised that the [Subject] is being handled as a [Type] case.

The [Name] has also advised that the [Subject] is being handled as a [Type] case.

Very truly yours,  
[Signature]

10/10/47  
[Name]

10/10/47

The [Name] has also advised that the [Subject] is being handled as a [Type] case.

10/10/47

10/10/47

10/10/47

10/10/47

**Pumpings:**

Well pumps 150 G.P.M. with 26.5' D.D. from static level.  
Recovers to 7.0' below static in 3 minutes. Pumped with air  
lift and measured with 12" weir.

Report will be made later of pump installation.

See separate report for chemical analysis.

N. H. Kellum  
Asst. Chem. Eng.

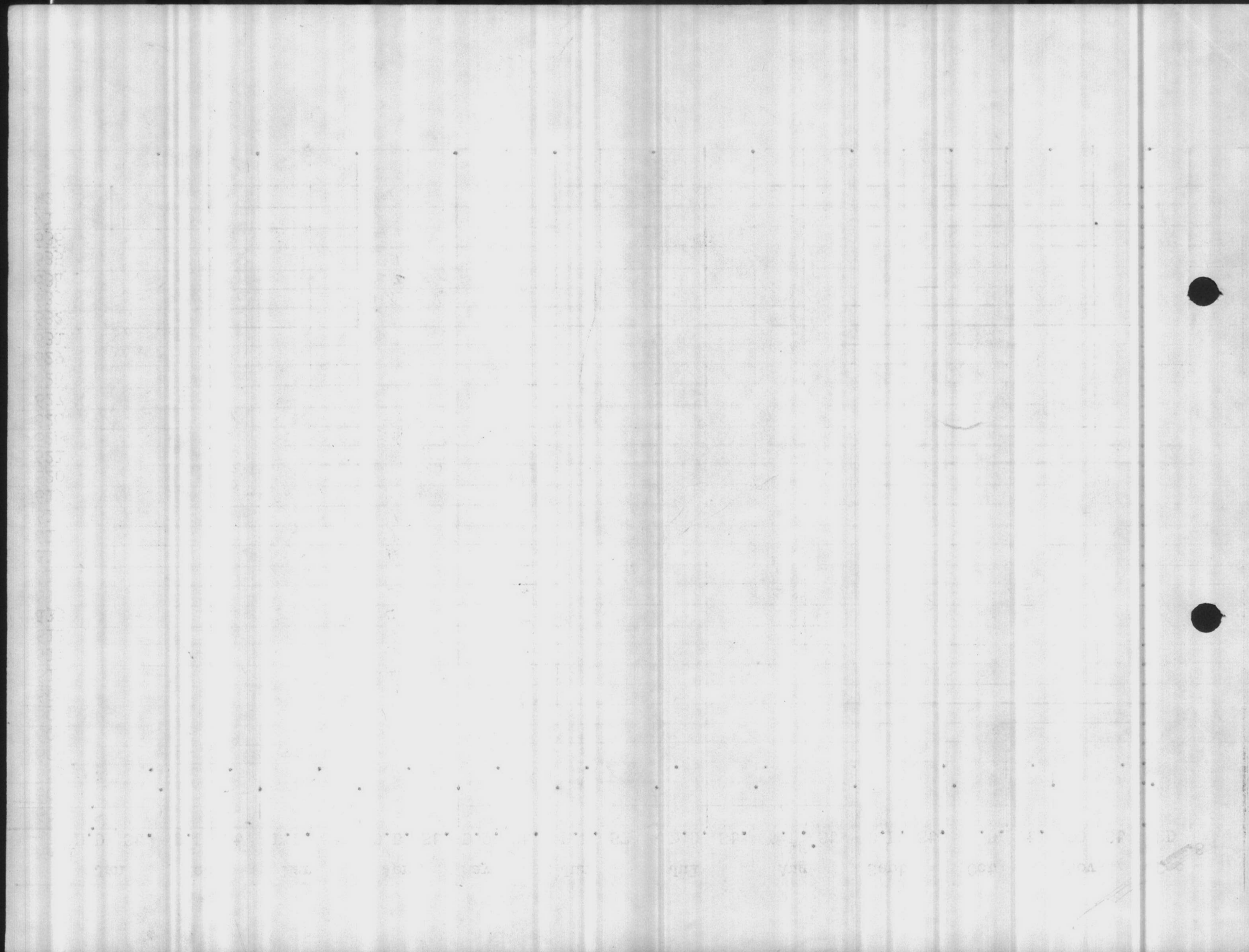
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D. PRES	D-Downs ft.	G.P.M.	Static
13	22	270	36 FT.
17	20	250	
34	20	210	

10-4-65

Left running all night to waste with 34 lbs inch pres.

10-5-65 Water Clear

33	19 FT	210	turned in main line at 0930
----	-------	-----	--------------------------------



# T.O.P. WELL

7-9-75

DEPTH 60' +

SIZE 1½"

PUMP 1½ HP



No. ✓

15  
20  
3

23  
42  
65

Recovers 20' Below Base

22" — 45' D.D. from Pump Base

8" — 26# Pressure 31' D.D. from Base

10"	23#	"	33' D.D.	"	"
12"	20#	"	35' D.D.	"	"
13"	18#	"	36.5	"	"
15"	15#	"	38.0	"	"
16 1/2"	12#	"	40	"	"
18"	10#	"	41	"	"

17" ✓	10#	"	42	"	"
16 1/2 ✓	12#	"	40.5	"	"
13.5 ✓	15#	"	39	"	"
12	18#	"	37	"	"
11	20#	"	36	"	"
8.5	23#	"	34.5	"	"

Well No. 6

static 15' below Pump Base

Recovers to static in 3 mi.

2.50	P.M.	25# pressure	17'	D.D.	from static
2.50	"	20# "	25'	"	" "
2.60	"	18# "	26'	"	" "
2.75	"	15# "	28'	"	" "
2.85	"	12# "	30'	"	" "
3.00	"	10# "	32'	"	" "

23  
20  
46.0

15  
25  
40  
46  
86

34.4  
32.4  
46

17  
15  
32

30

46

25  
313

50

35.0

23  
25  
115

46  
57.5  
30.0  
87.5

17  
15  
32

57.5

Nov 9

$$\begin{array}{r} 16.5 \\ 21 \\ \hline 49.5 \\ 330 \\ \hline 47.95 \end{array}$$

$$\begin{array}{r} 29. \\ 20.8 \\ \hline -7.2 \end{array}$$

$$\begin{array}{r} 30.8 \\ 15 \\ \hline +15.2 \end{array}$$

Ground Elev. 29  
static +15

Well No. 8

$$\begin{array}{r} 31.2 \\ 12.0 \\ \hline +19.2 \end{array}$$

$$\begin{array}{r} 58.0 \\ 19.2 \\ \hline -38.8 \end{array}$$

WATER & SEWER MAINTENANCE static 22.0 Below Pump Base

static Recovers to +4 in 3 mi.

DATE 260 8PM 20#

PLACE

No. 10

190 8PM 21# Pressure

M.H. 305 8PM 10" Pressure 45 DD from base

290 " 12.5" " 44 DD " "

250 8PM 19.5# Pressure 39' DD from Base

M.H. 275 8PM 15# " 42.3' DD " "

260 8PM 17.5 " 41.2 DD " "

M.H. 225 8PM 22.5 " 38 DD " "

No. 4

200 8PM 0 Pressure 45" DD from static

188 8PM 5# 43" D.D. " "

165 8PM 15# " 38 D.D.

175 8PM 12.5# " 40' D.D.

150 8PM 19# " 35' D.D.

143 8PM 22.5# 34' DD

M.H. Elev. Surface 28.3

M.H. Elev. Base 30.8

42.3

31.5

-10.8

-13

33.2

19.0

14.2

45

16

61

MR. BARKER

DRAW DOWN 13.6 FT

# 1 WELL

28 MAY 65

DRAW DOWN - 30 FT. - Disch. PRES. 24 LBS. G.P.M. <sup>LESS THAN</sup> 100 GALS.

DRAW DOWN - 28 FT. - Disch. PRES. 23 LBS. G.P.M. 104

DRAW DOWN - 26 FT. - Disch PRES. 20 LBS. G.P.M. 108

D. D. 21 FT. - " " 15 LBS. G.P.M. 149

D. D. 18 FT. - " " 10 LBS. G.P.M. 164

D. D. 14 FT. - " " 5 LBS. G.P.M. 197

D. D. 13 FT. - " " 2 LBS. G.P.M. 210

NO SAND

I HAVE BEEN Running this well up to now with 24 LBS. Disch PRES.

Raynor

WELL # 33 DRAW DOWN AS LOW AS 19 FT.

I HAVE BEEN Running this well with the discharge pressure on 32 LBS AND GETTING A DRAW DOWN OF 28 FT. I LOWERED PRESSURE TO 24 LBS. AND NOW I GET A DRAW DOWN OF 20 FT.

NO SAND

I AM still checking on # 36 well

11 old George  
19 one out of #3

6 lbs Gene Presant #3  
7 lbs " " #1



# Water Treatment

8-30-57

Raw water wells - air lines length -

well #	air line lgt.	
1	?	28
2	64 ft.	29
3	64 ft.	30
4	80 ft. ?	31
5	75 ft.	32 - 60 ft.
6	70 ft. ?	
<del>7</del>	_____	
8	64 ft.	
9	60 ft.	
10	46 ft.	
11	?	
12	58 ft.	
13	47 ft.	
14	53 ft. 6 in.	
15	46 ft.	
16	?	
17	57 ft.	
18	?	
19	64 ft.	
20	50 ft.	
21	46 ft.	
LCH-1	?	
LCH-2	70	
24	NONE	
25	75 ft. ?	
26		
27		



#7 well

Pressure 28 lbs

airline 80'

Pumping level 25'

Static 18' 10"

Draw Down 36'

#1 well

48' static

38' DD

4th

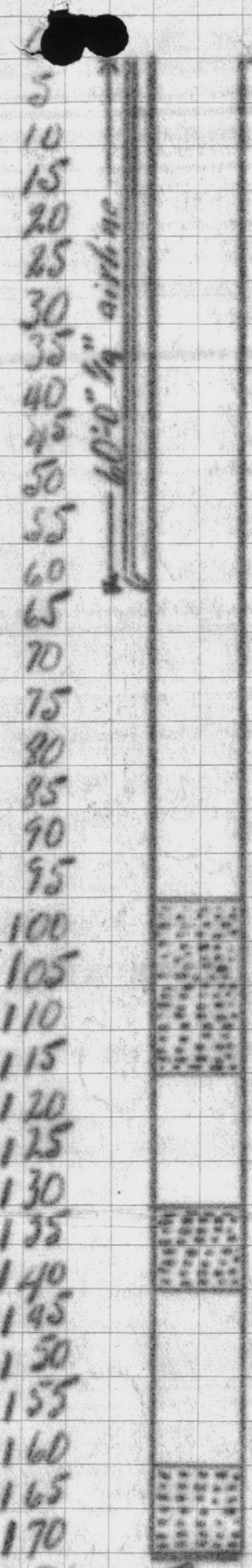
133.8

21st

133.8

28" 18" Casing Set and Cemented

Well Pump 200 G.P.M with 400" D.D below Surface  
Recovers to 24' below Surface in one minute  
Static below Surface



Surface  
Well 16 Reg area  
170' deep

95'-0" 8" Pipe

20'-0" 8" Screen

14'-9" 8" Pipe

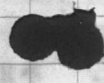
10'-0" 8" Screen

20'-3" 8" Pipe

10'-0" 8" Screen

Cement Plug →

ARMED IRON SCREEN IN THIS WELL



1000 8. SC16C11

1000 8. SC16C11

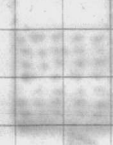
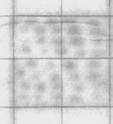
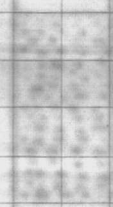
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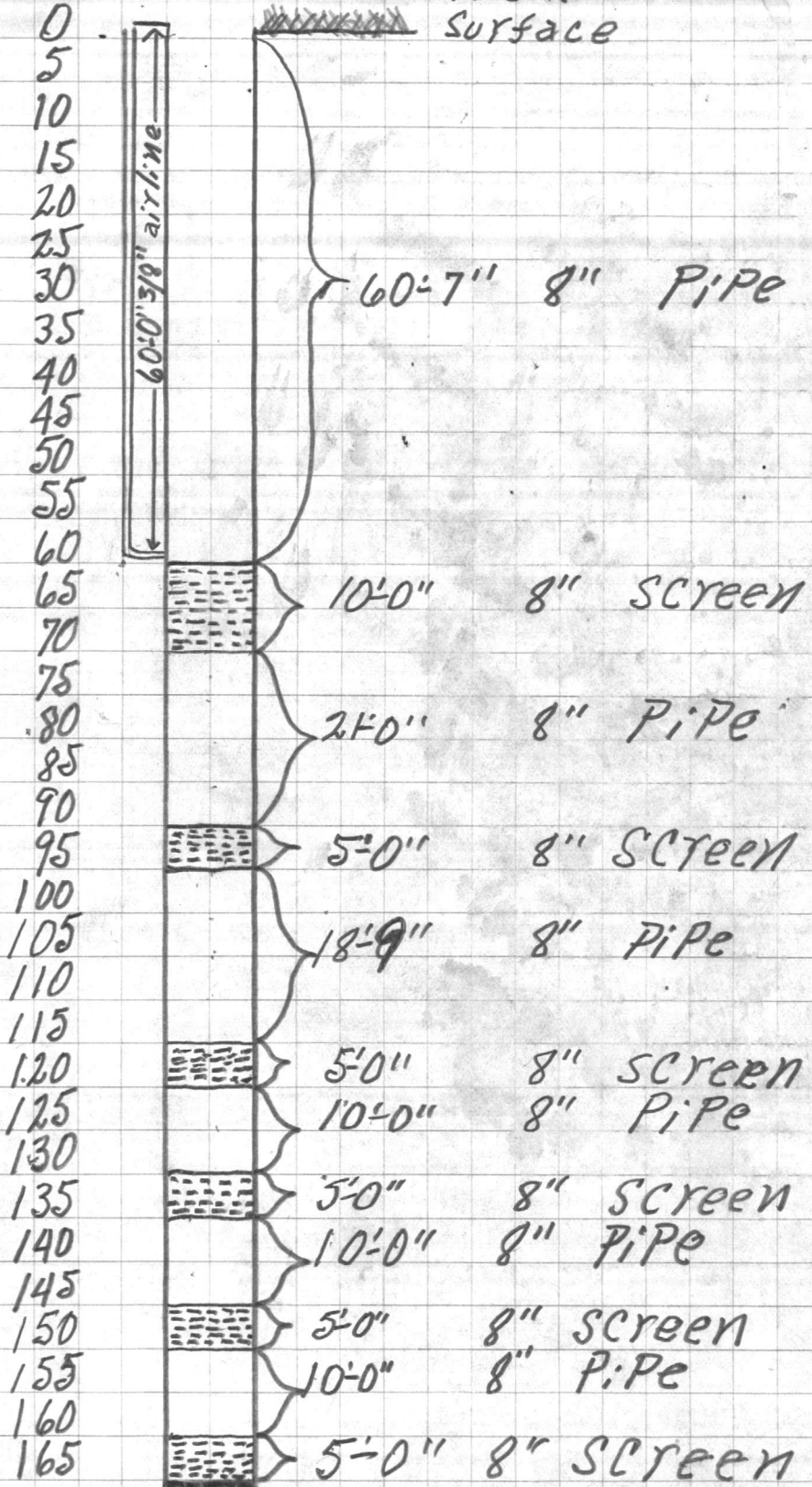
Vertical text on the far right side of the page, possibly a column header or list.

Screen setting Well #16 Pen. area.

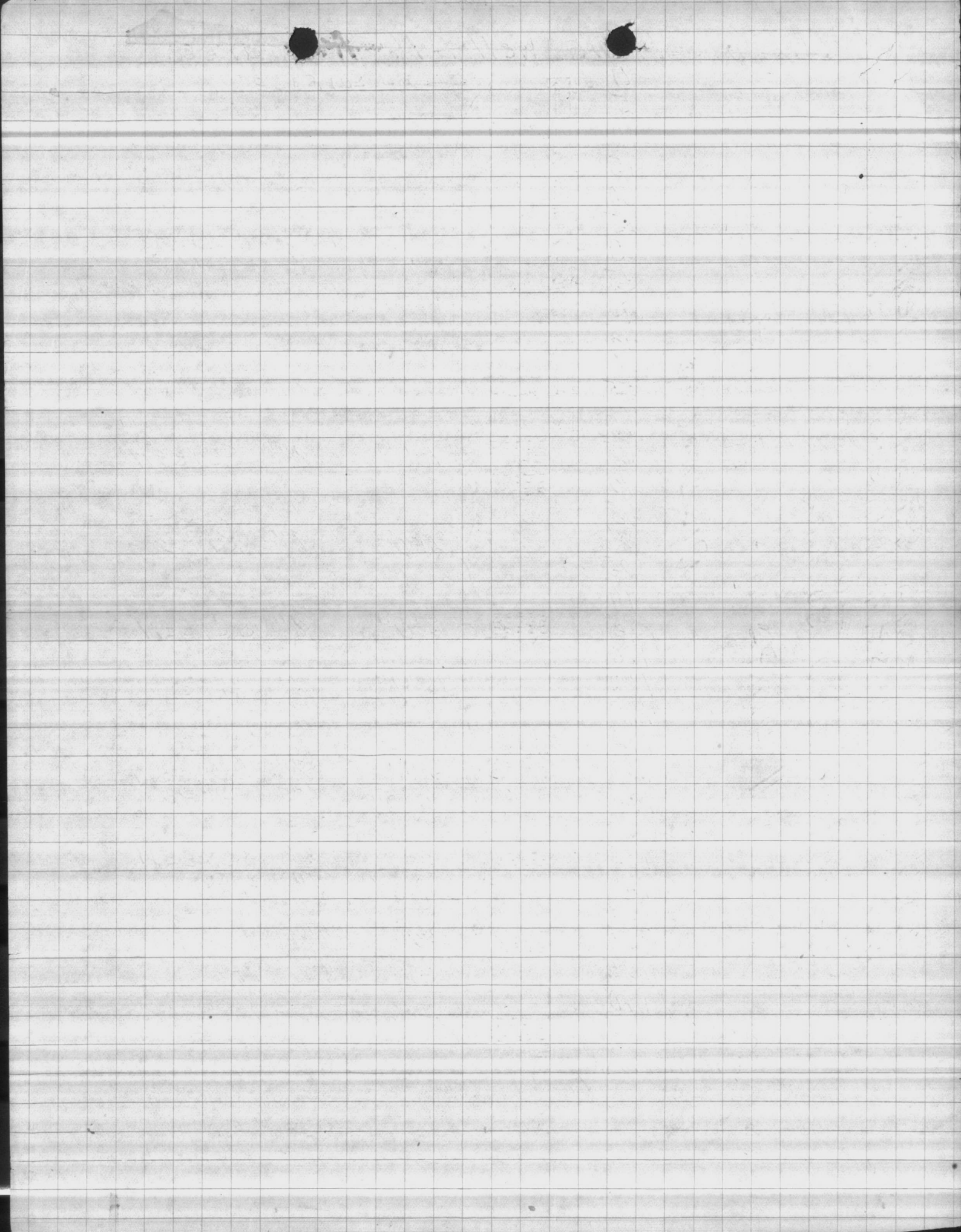
20'-0" 18" Caseing Set and Cemented  
 Well Pumps 150 G.P.M. With 37'-0" d.d. below Surface  
 Recovers To 19'-0" below Surface in 3 Minutes  
 Static 8'-9" below Surface

This Well Pumps lots of fine flour sand

Discarded



Cement Plug →





Log of Well # 16 Reg area.

- 0' to 16' fine sand with packed hard.
- 16' to 23' Tough Blue Clay
- 23' to 48' Sand and Clay
- 48' to 63' Soft Rock.
- 63' to 75' fine sand
- 75' to 86' Clay
- 86' to 112' hard Rock
- 112' to 125' Soft Rock
- 125' to 135' Hard Rock
- 135' to 140' Medium Hard Rock
- 140' to 157' Soft Rock and fine sand
- 157' to 170' fine sand with shells mixed

Well finished at 165' 4"

Discarded



Marine Barracks  
New River, N. C.  
16 Sept., 1941

*Kellam*

Well - Permanent Water Supply - Housing Project

By Layne Atlantic Co

Report on 1st Well Drilled in Area--

Location:

Approx. 1 Mile west of Piney Green general store & 100' north of the Jacksonville-Swansboro road (highway #24)

Date Drilled:

Sept., 1941

Drilling Equipment:

Rotary Rig, Rotary Bit & High Pressure Pump - Rotary Clay Seal method of drilling.

Status:

23" diameter hole cased with 18" pit casing to a depth of 23' below surface. The annular space around the 18" pipe completely filled with portland cement. A 17" hole uncased drilled to 153' depth. Because the bottom strata contained sand, concrete was placed in the bottom of the hole - so that the new & final depth of the well is now 125'. See Log of Formations.

Log of Formations--

0 - 5'	Marsh Mud		
5' - 12'	Fine White Sand		
12' - 17'	Coarse Sand		
17' - 23'	Blue Clay		
23' - 40'	Sand & Gravel		
40' - 43'	Soft Coquina Rock	Water Bearing	
43' - 54'	Fine Sand & Yellow Clay		
54' - 99'	Soft Coquina Rock & Sand	"	"
99' - 115'	Hard Coquina Rock	"	"
115' - 124'	Soft " "	"	"
124' - 127'	Hard " "	"	"
	Final Depth of Well - 125'		
127' - 132'	Soft Coquina Rock	"	"
132' - 153'	Sand & Clay		



Remarks:

Because of the Sand content within the water bearing Coquina rock stratas (43 to 99' depths) it was necessary to construct a well of gravel wall construction.

Gravel well construction:

An 8" steel pipe line was lowered into the 17" diameter well to the bottom of the well (125' depth). The portions of this line between 25' to 40', 60' to 70', 75' to 95', & from 115' to 125' (depths) were 8" silicon bronze shutter screen. The annular space around the 8" pipe was filled with  $\frac{1}{4}$ " gravel.

Static Water Level:

16' from surface.

Cleaning & Pumping out well:

Equipment--

- Air Compressor
- 4" pipe line in well to point 123' below surface
- 2" (pipe) air line outside of 4" pipe to point 123' below surface with a turn up to inside of 4" pipe at bottom.
- 12" wier in earth ditch.

Cleaning--

Air compressor attached to air line in well & water discharged from well (at rate of approx. 70 g.p.m.) for 24 hours.

Well was agitated while cleaning - this done by building up the air pressure to approx. 100# per sq. in. & then suddenly releasing same into air line.

Test Data:

14 Sept., 1941

<u>Time</u>	<u>Reading over 12" wier</u>	<u>Equivalent G.P.M.</u>	<u>Draw down from static level</u>	<u>Remarks</u>
11 A. M.	15/8"	73		Start
12 noon	2"	147	14'	
3 P. M.	3 1/2"	200	14'	
5 P. M.	3 1/2"	200	14'	
9 A. M. (15 Sept.)	3 1/2"	200	14'	
9 A. M. 15 Sept. - Pumping Discontinued				

During the above test, the well was agitated as before during the cleaning.

Further pumping & testing to be done after deep well turbine pump installed. See latter report on pump, setting & testing. See separate report on water analysis.

Jennings B. Knoebel

Assit. Const. Engineer.

Production of one well was suspended during the winter because of a well of general well.

General well production was suspended during the winter because of a well of general well.

10:00 AM

10:00 AM

10:00 AM

Production of one well was suspended during the winter because of a well of general well.

10:00 AM

Production of one well was suspended during the winter because of a well of general well.

10:00 AM

10:00 AM

Production	General well	Production	General well
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100

Production of one well was suspended during the winter because of a well of general well.

10:00 AM

10:00 AM

Marine Barracks  
New River, N. C.  
March 30, 1942

**Well:** Permanent Water Supply - Low Cost Housing Project  
By Layne Atlantic Company  
Report on Well No. 2, this Area.

**Location:** N. E. Corner of the intersection of Highway 24, and  
Carolina Drive, 100 feet north of Highway 24, and  
50 feet east of Carolina Drive.

**Date Drilled:** February, 1942

**Drilling  
Equipment:** Rotary Rig and Bits

**Status:** Ground elevation: 41.21

23" diameter hole reamed and cased with 18" I.D.  
steel casing to a depth of 29'6" below surface.  
The annular space around the 18" casing filled with  
cement grout from top to bottom. A 17" hole was  
then drilled to a depth of 155 feet.

<b>Log of Formation:</b>	0' to 10'	Red clay
	10' to 20'	Fine white sand
	20' to 30'	Fine white sand and blue clay
	30' to 37'	Fine white sand with lots of blue clay
	37' to 42'	Sand and shell rock (slow drilling)
	42' to 48'	Sand and shell rock softer
	48' to 51'	Shell rock
	51' to 59'	Shell rock, hard and rough
	59' to 64'	Shell rock with sand pockets
	64' to 67'	Hard shell rock
	67' to 72'	Soft shell rock with sand pockets
	72' to 84'	Shell rock, not very hard
	84' to 90'	Shell rock
	90' to 106'	Shell rock and sand
	106' to 120'	Shell rock, medium hard
	120' to 145'	Hard shell rock
	145' to 155'	Hard shell rock with odor of H <sub>2</sub> S

1942  
1941  
1940

1939

1938

1937

1936

1935

1934

1933

1932

Year	...	...	...
1931	...	...	...
1930	...	...	...
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1903	...	...	...
1902	...	...	...
1901	...	...	...
1900	...	...	...



Sheet 2

Due to the presence of pockets of fine sand in the water, bearing coquina rock, it was necessary to construct a gravel wall well.

**Gravel Wall** An 8" steel pipe with sections of silician bronze  
**Construction:** shutter screen was lowered into the 17" hole to a total depth of 145'3". The annular space around the 8" pipe and screen was filled with a special  $\frac{1}{8}$ " Cape May Gravel to ground level.

Log of	0' to 49'4"	8" Blank pipe
Screen Setting:	49'4" to 59'4"	8" Bronze screen
	59'4" to 69'2"	8" Blank pipe
	69'2" to 99'2"	8" Bronze screen
	99'2" to 120'5"	8" Blank pipe
	120'5" to 130'5"	8" Bronze screen
	130'5" to 140'3"	8" Blank pipe
	140'3" to 145'3"	8" Bronze screen

The bottom of the screen was filled with a cement plug and capped with a steel plate.

**Static Level:** 23.8

**Pumping:** Well pumps 300 gallon per minute with a 26' draw down. Approximately 11.55 gallons per foot of draw down.

Pumped 335 gallons per minute with a 28'10" draw down below static level. Well recovers to 2 feet below static level in 3 mi.

Further pumping test will be made after permanent pumps are installed.

Report will be made later of pump setting.

See separate report for chemical analysis.

N. H. Kellan  
Asst. Chem. Engineer

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Area	Design		Well		GPM	Head Ft.	Pump Make	Elec. HP	Drive Make	Aux. Drive	Water Treatment Provided
	Pop. Orig.	M.C.D.	No.	Depth							
Division Training	20,000	2.40	1	195	250	78	Peerless	7.5	U.S.	x	(Softening
Reg. Areas			2	160	150	86	"	5.0	"		)Filtration
W.R. Area			3	195	250	86	"	10.0	"	x	(Chlorination
Post Troops			4	195	150	117	"	7.5	"		
Indust. & Supply			5	200	250	100	"	10.0	"		
Hospital			6	210	200	86	"	7.5	"		
Officers Qtrs.			7	190	200	88	"	7.5	"		
			8	160	250	73	Layne	7.5	"	x	
			9	150	200	85	"	7.5	"		
			10	190	250	81	"	7.5	"	x	
			11	160	250	91	"	10.0	"		
			12	190	200	90	"	7.5	"		
			13	150	250	90	"	10.0	"	x	
			14	167	250	96	"	10.0	"		
			15	160	250	82	"	7.5	"		
			16	170	250	85	"	10.0	"		
			17	187	250	102	Worthington	10.0	"	x	
			18	190	200	90	"	7.5	"		
			19	162	200	102	"	7.5	"		
			20	54	200	72	"	7.5	"		
			21	77	250	86	"	7.5	"	x	
Hospital	Emergency		E-1	102	100	216	Layne	7.5	U.S.	x	0/2
Officers Qtrs.	"		R	100	250	183	"	20.0	"	x	0/2
Barrage Balloon	1,500	.18	V (44)	62	200	160	Peerless	15.0	U.S.	x	0/2
Battalion			W (43)	60	150	170	Layne	10.0	"		
Rifle Range	3,000	.36	S (45)	130	150	205	Layne	15.0	U.S.	x	0/2
			T	452	200	195	"	15.0	"		
			S-1 (47)	80	250	190	"	20.0	"		
			T-1 (27)	77	150	198	"	20.0	"	x	



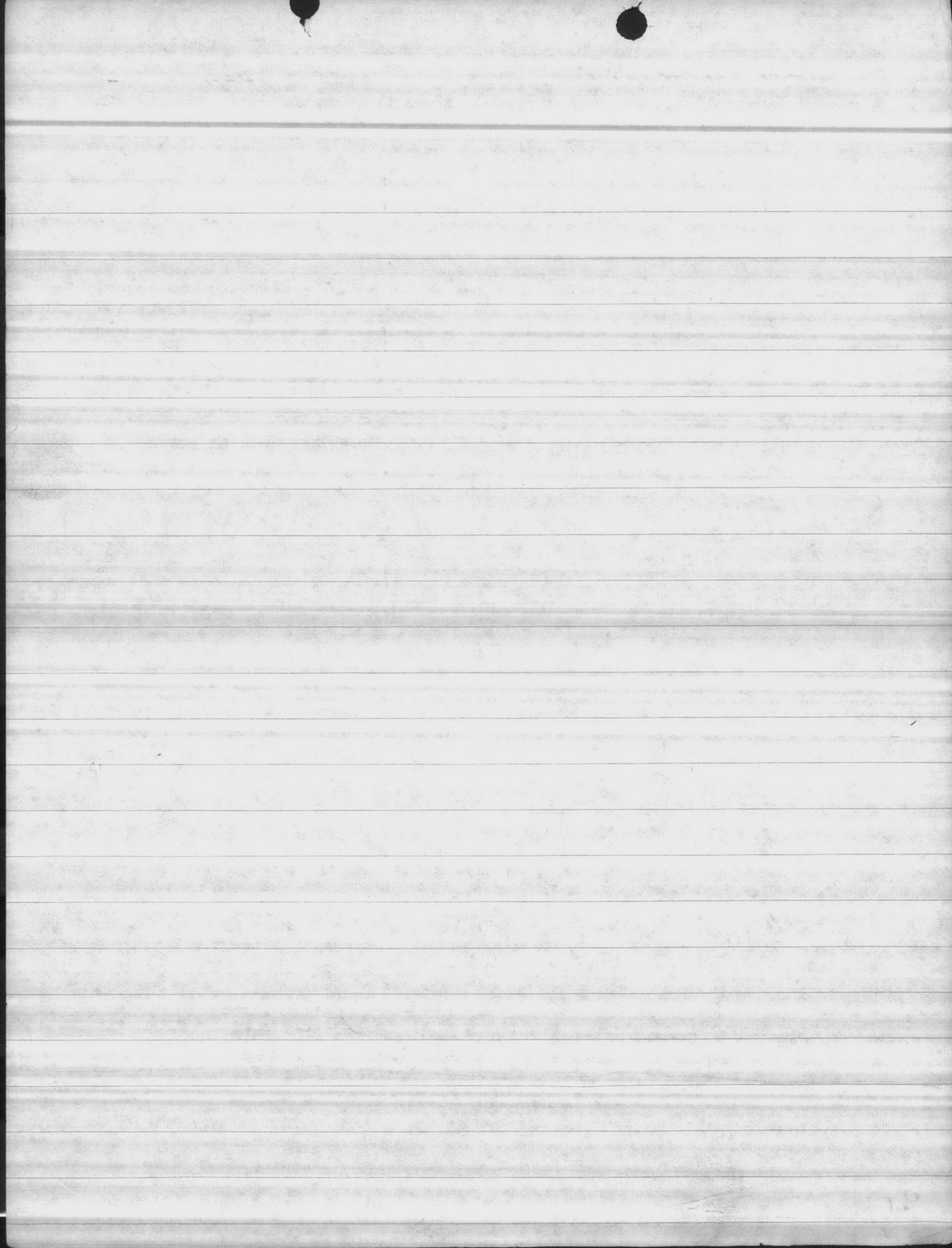
Area	Design		Well		GPM	Head Ft.	Pump Make	Elec. HP	Drive Make	Aux. Drive	Water Treatment Provided
	Pop.	M.G.D.	No.	Depth							
(Camp Knox Montford Pt.)	11,000	1.30	1	75	150	176	Layne		U.S.		C/2
			2	90	150	120	"	7.5	"		
			2	100	150	139	"	7.5	"	x	
			2-1	65	100	141	"	7.5	"		
			2-2	90	150	160	"	10.0	"		
			2-3	80	300	170	"	20.0	"		
			2-4	150	198	"	10.0	"			
			2-5	100	160	"	10.0	"			
White Cemetery			1	65	50	155	Layne	2.0	"		
Amphibian Base	100	.01	U	116	250	165	Peerless	15.0	"	x	C/2
Mock-Up			X	40	50	60	Layne	5.0	"		C/2
Tank Bn. Tent Camp	700	.04	O	84	60	150	Layne	5.0	"		C/2
Tent Camps 1 & 2	12,000	1.44	A	182	450		Cook	10.0	"		Aeration
			B	67	75		Layne x	3.0	"		C/2
			C	70	75		"	3.0	"		
			D	184	400		Cook	10.0	"	x	
			E	70	130		Layne	3.0	"		
			F	76	125		"	3.0	"		
			G	76	100		"	3.0	"		
			H	67	50	80	Peerless	2.0	"		
			I	76	150	75	"	5.0	"		
J	110	250	71	"	7.5	"	x				
K	138	150	65	"	5.0	"					
L	136	150	63	"	5.0	"					
M	100	200	66	"	5.0	"	x				
Midway Park			1	125	300	170	Layne	20.0	"		C/2
			2	145	300	183	Peerless	20.0	"	x	
Signal School Beach	1,800	.02	22	62	150	164	Layne x	7.5		x	C/2
			23	62	150	162	" x	7.5			

NO.	DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	BALANCE	REMARKS
1	1912	...	...	...	...	...	...
2	1912	...	...	...	...	...	...
3	1912	...	...	...	...	...	...
4	1912	...	...	...	...	...	...
5	1912	...	...	...	...	...	...
6	1912	...	...	...	...	...	...
7	1912	...	...	...	...	...	...
8	1912	...	...	...	...	...	...
9	1912	...	...	...	...	...	...
10	1912	...	...	...	...	...	...
11	1912	...	...	...	...	...	...
12	1912	...	...	...	...	...	...
13	1912	...	...	...	...	...	...
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18	1912	...	...	...	...	...	...
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23	1912	...	...	...	...	...	...
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27	1912	...	...	...	...	...	...
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29	1912	...	...	...	...	...	...
30	1912	...	...	...	...	...	...
31	1912	...	...	...	...	...	...
32	1912	...	...	...	...	...	...
33	1912	...	...	...	...	...	...
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39	1912	...	...	...	...	...	...
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42	1912	...	...	...	...	...	...
43	1912	...	...	...	...	...	...
44	1912	...	...	...	...	...	...
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46	1912	...	...	...	...	...	...
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48	1912	...	...	...	...	...	...
49	1912	...	...	...	...	...	...
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58	1912	...	...	...	...	...	...
59	1912	...	...	...	...	...	...
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68	1912	...	...	...	...	...	...
69	1912	...	...	...	...	...	...
70	1912	...	...	...	...	...	...
71	1912	...	...	...	...	...	...
72	1912	...	...	...	...	...	...
73	1912	...	...	...	...	...	...
74	1912	...	...	...	...	...	...
75	1912	...	...	...	...	...	...
76	1912	...	...	...	...	...	...
77	1912	...	...	...	...	...	...
78	1912	...	...	...	...	...	...
79	1912	...	...	...	...	...	...
80	1912	...	...	...	...	...	...
81	1912	...	...	...	...	...	...
82	1912	...	...	...	...	...	...
83	1912	...	...	...	...	...	...
84	1912	...	...	...	...	...	...
85	1912	...	...	...	...	...	...
86	1912	...	...	...	...	...	...
87	1912	...	...	...	...	...	...
88	1912	...	...	...	...	...	...
89	1912	...	...	...	...	...	...
90	1912	...	...	...	...	...	...
91	1912	...	...	...	...	...	...
92	1912	...	...	...	...	...	...
93	1912	...	...	...	...	...	...
94	1912	...	...	...	...	...	...
95	1912	...	...	...	...	...	...
96	1912	...	...	...	...	...	...
97	1912	...	...	...	...	...	...
98	1912	...	...	...	...	...	...
99	1912	...	...	...	...	...	...
100	1912	...	...	...	...	...	...

Well Test

Date

Well #	LBS DIS. PRESSURE	GAGE D.D. FT	FT READING STATIC	G.P.M.	LBS SHUT OFF HEADER	Remarks
M2	50	11		304		LINE
M2	55	13		274		
M2	45	9		330		
M1	60	9.5	14	317		
M1	54	9		347		LINE
36	0				38	ESTIMATED 20 G.P.M.
35	23	27.5		146		
35	20	25		172		LINE
35	17	22.5		192		
35	15	21		201		
12-8-61						
16	26	10.5	3.	244		Line #16 air line 62 ft.
16	20.5	8.5		275		
	30	13.		216		
31	<del>33.5</del>	<del>36</del>	65 ft	<del>178</del>	56	
31	31	31	-	159	-	
31	26	26	-	175	-	Line -
31	29	29		164		
12-12-31						
31	27½	24		135		THRU. METER ( NO PRESS
31	27½	24		142		THRU METER WITH VALVE
31	27½	24		147		Shut off.





Jan. 1965

WEI/s	PRES, LBS.	D.D. ft	ST. ft
1	24	28	42
2	24	10	47
3	27	11	44
10	16	4	39
11	23	6	29
12	15	18	35
13	28	10	32
14	20	5	26
15	9	12	20
16	20	4	28
17	17	12	32
18	14	16	41
19	18	5	19
20	15	26	46
21	out of order		30
1m	62	5	14
2m	out of order		40
33	32	26	40
34	10	48	52
35	18	31	58
36	11	58	78

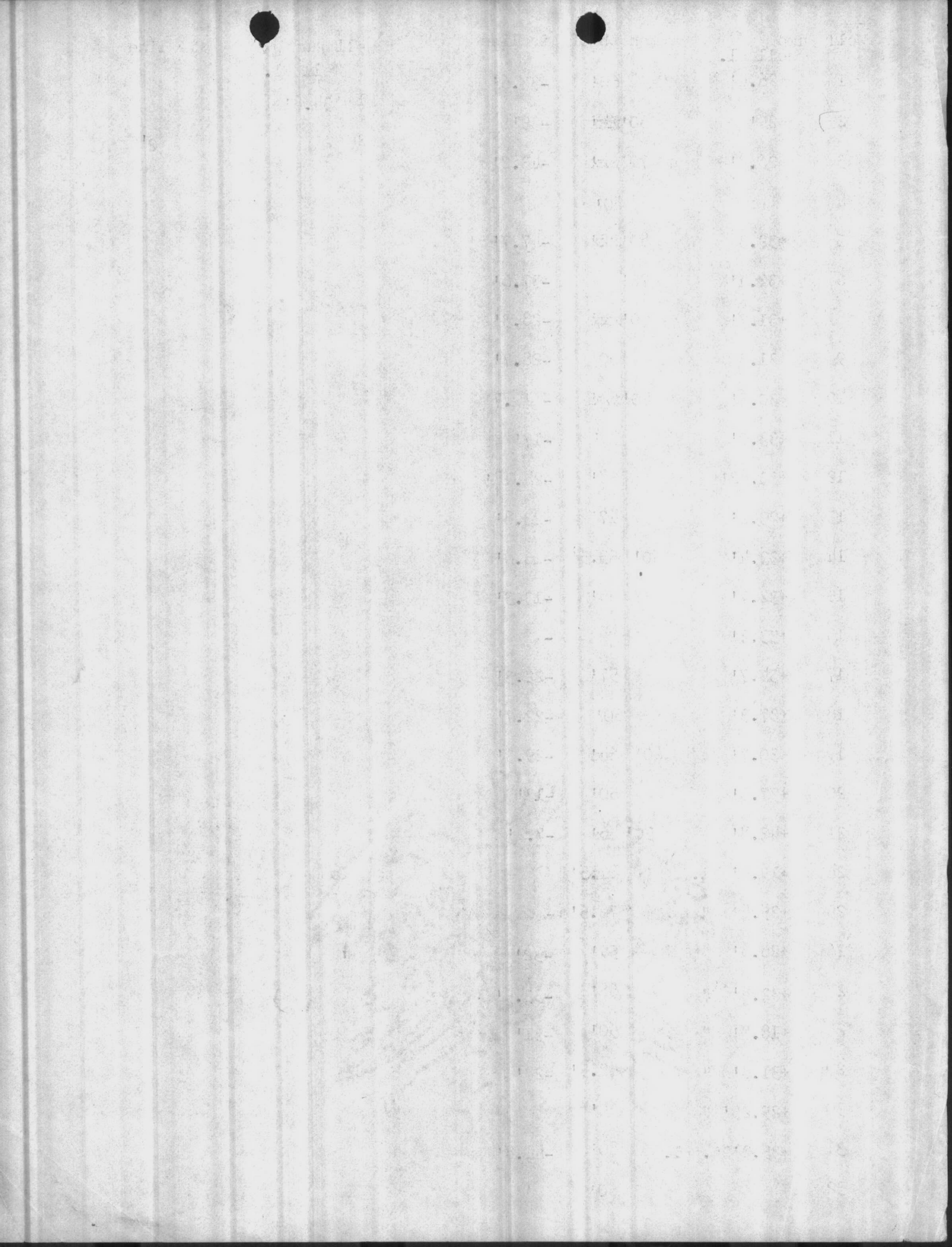


Well Pump #	Well El.	Length of Air line	Air line	Well Pump #	Well El.	Air line
1	+26.4'	60'	-33.6' - 13.6	M1	34.8'	50'
2	+25'	60'	-35' - 15.0	M2	42.0'	-30 - 72' - 8
3	+26.8'	70'	-43.2' - 23.2			
4		80'				
5	+32.3'	80'	-47.7' - 27.7			
6	+32.4'	70'	-37.6' - 17.6			
8	+31.7'	60'	-28.3' - 8.3	- STATIC - 72 ft. <i>Stage</i>		
9	+31.3'	60'	-28.7' - 8.7			
10	+30.3'	50'	-19.7' - 1.0			
11	+33.0'	50'	-17' - 1.0			
12	+33.82'	58'	-24.18' - 4.18			
13	+23.2'	47'	-23.8' - 3.8			
14	+33.4'	50'	-16.6' - 1.0			
15	+32.7'	46'	-13.3' - 1.0			
16	+33.3'	62'	- ? - ?			
17	+34.7'	57'	-22.3' - 2.3			
18	+37.3'	60'	-22.7' - 2.7			
19	+30.7'	60'	-29.3' - 9.3			
20	+37.0'	50'	-13' - 1.0			
21	+42.8'	50'	-7.2' - 1.0			
24	+19.5' Fl.	?	- ? - ?			
25	+25.8' "	76.5'	-50.7 - 30.7 ✓			
26	+26.8' "	59'	-32' - 12.0			
27	+32.8' "	68'	-33.5' - 13.5			
28	+18.8' "	50'	-31' - 11.0			
29	+31.8' "	62.5'	-28' - 8.0			
30	+31.3' "	63.5'	-32.2 - 12.2			
31	+35.2' Ga. El.	80'	-44.8' - 24.8			
32	+41.5' "	60'	-22' - 2.			

*DPDage Reamy*

$$\begin{array}{r}
 76.5 \\
 25.8 \\
 \hline
 50.7 \\
 20.0 \\
 \hline
 30.7
 \end{array}$$

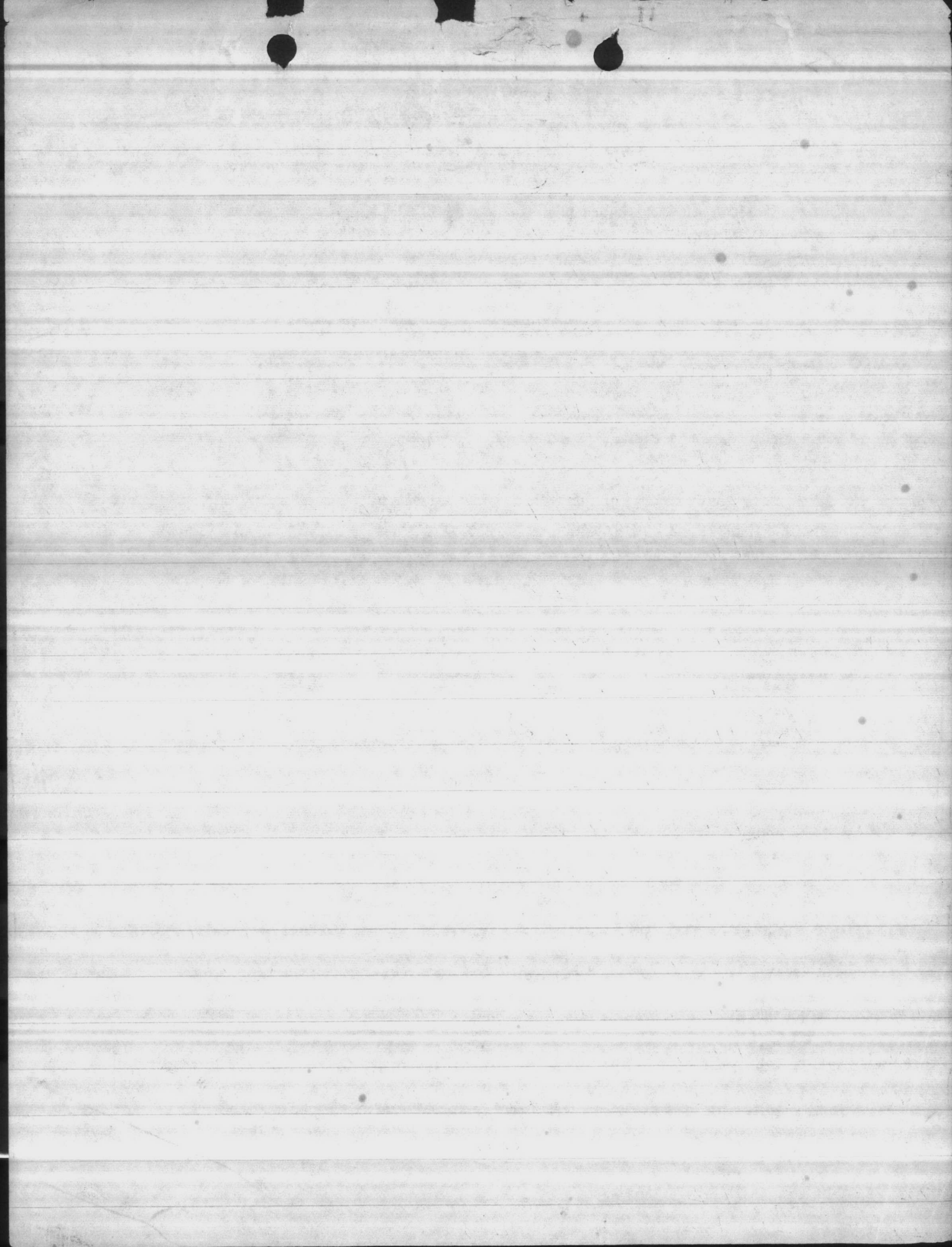
30  
 24  
 30.5  
 30.17  
 31.3  
 39  
 2.5  
 41.5  
 41.5  
 22.0



Dec 61

	D. D	St		D. D	St
1	11-8-11	31-29	28	12-8	40
2	8		29	8	48
3	18-28	49-48	30	20	40
5	61	62	31	23	66
6	33	50	32	26	
8	12	33	33	36-19	
9		44	34		49
10	4	38?	35		56
11	10	27	36		76
12	16				
13	4	27			
14	4	26			
15	4	20			
16	11-12	38			
17	-	-			
18	14				
19	-	-			
20	18				
21	5-10				
1M	4	13			
2M	12				
24	-22	40			
25	-26	44			
26	-12				
27	-13	42			

508



2-27-57

● - 4 - 5 - 6 - 8 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 20 - 21 - 24

25 - 26 - 27 - 28 - 29 - 30 - 31

Pressure 14.5 LBS.

23 Wells

~~3880 G.P.M. (1 well)~~

3900

~~3810 (POINT)~~

avg. per well - 170 G.P.M.





3730

Pumping capacities

3030  
2030  
4030

H.P. Plant-----8000 G.p.m.

C. Geiger-----2000 "

Mont. Point-----900 "

R. Range-----600 "

Court H. Bay-----350 "

O. Beach-----350 "

A-5-----200 "

C Range-----200 "

12600

**FOREMAN'S  
LABOR DISTRIBUTION  
CARD**

NAVMC 10041-SD

**DISTRIBUTION**

DATE

NAME

ACCOUNT NO.

WORK ORDER NO.

SIGNATURE OF FOREMAN

GPO: 1951-O-959671

ON

2-27-57

2-5-10-12-14-16-17-20-21-24-26-28-29

30-31

15 Wells

Pressure 15-

3100 G.P. M

avg Per well -

206 GPM



OK

2-27-57

2-5-10-12-14-16-17-20-21-24-26-28

29-31-31

14 WELLS

2850 G.P.M

**FOREMAN'S  
LABOR DISTRIBUTION  
CARD**

NAVMC 10041-SD

**DISTRIBUTION**

DATE

NAME

ACCOUNT NO.

WORK ORDER NO.

SIGNATURE OF FOREMAN

GPO: 195 59671

2-27-57

5-10-16 - 20-21-24-29-31

8 WELLS

1700 G.P.M.

Pressure  $15\frac{1}{2}$

AUG. PER WELL, 212 GPM.

**FOREMAN'S  
LABOR DISTRIBUTION  
CARD**

NAVMC 10041-5D

**DISTRIBUTION**

DATE

NAME

ACCOUNT NO.

WORK ORDER NO.

SIGNATURE OF FOREMAN

GPO: 1951-O-959671



T  
T

1.6 4  
1  
1.5 0  
1.9 0  
2.3 2  
1.2 8  
1.0 8  
1.9 9  
2.6 6  
1.1 1  
1.6 7  
2.5 0  
1.5 0  
1.8 7  
1.5 9  
1.0 0  
1.6 2  
2  
1.9 8  
2.0 3  
2.7 2  
2.7 2  
1.1 1  
1.7 8  
1.7 8  
2.4 6  
1.1 9  
1.5 1  
1.4 0  
1.5 4

4 9.4 8 T  
T  
T



1	_____	64
2	_____	100
3	_____	air line 150
5	_____	190
6	_____	232
8	_____	128
9	_____	108
10	_____	199
11	_____	266
12	_____	111
13	_____	167
14	_____	250
15	_____	150 air line out side
16	_____	<del>75</del> 187
17	_____	159
18	_____	note out 100
19	_____	162
20	_____	air line + check 200
21	_____	203
2M	_____	272 212
2M	_____	272
24	_____	<del>119</del> out X
25	_____	111
26	_____	178

27	_____	178
28	_____	X
29	_____	X
31	_____	X
32	_____	246
33	_____	119
34	_____	151
35	_____	140
36	_____	154

U

1 30

5 25

1 38

1 18

1 00

2 00

1 11

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3 1

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3 6

3 7

3 8

3 9

4 0

4 1

4 2

4 3

4 4

4 5

4 6

4 7

2 00

1 10

1 21

1 31

1 24

1 30

5 25

1 38

1 18

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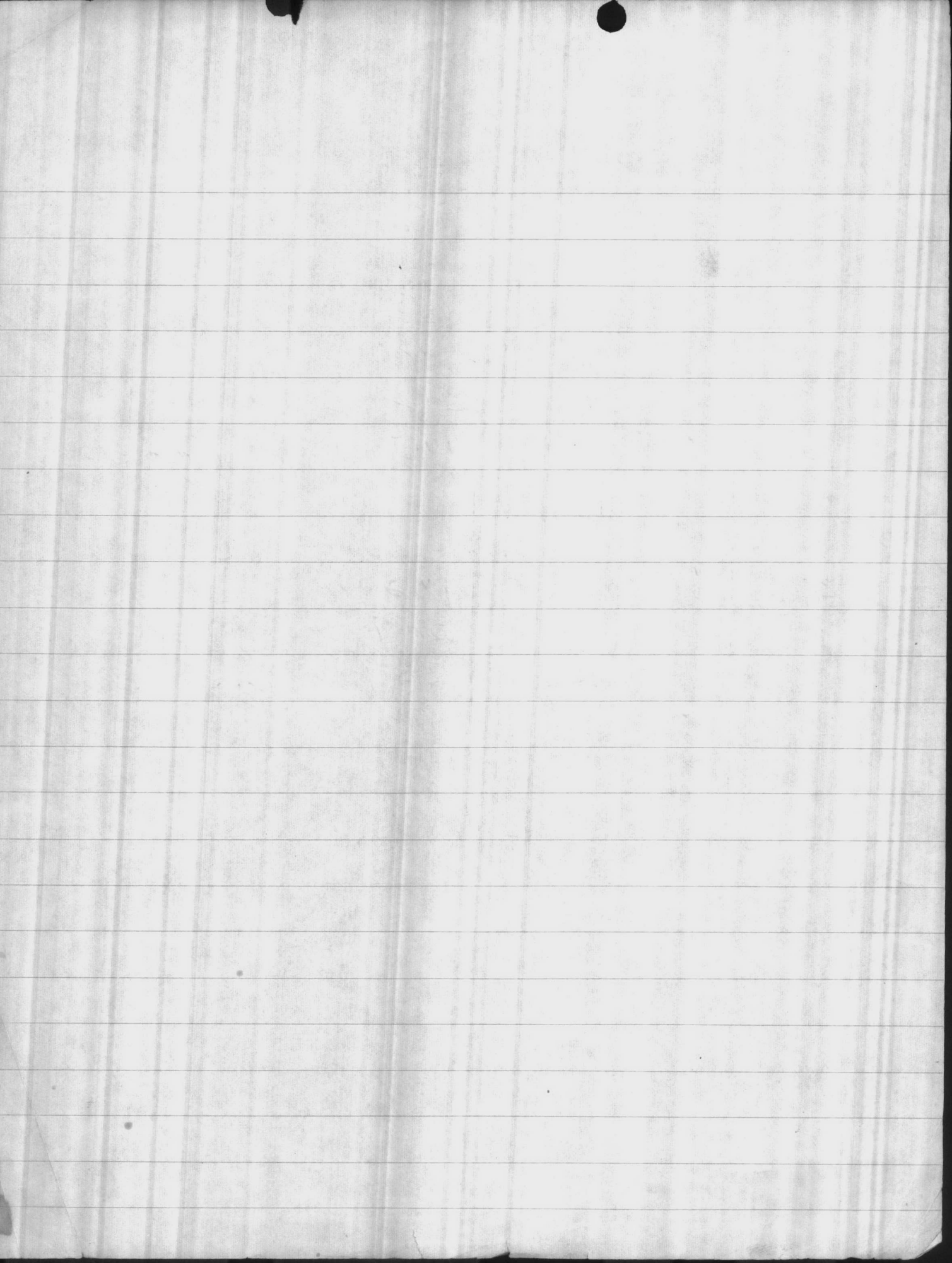
1 00

1 00

1 00

7-3-63

WELL NO	PR	DD	ST.	GPL.	
17	22	4'	28'	178	
	25	6'		151	
	28	8'		122	
	18	3.8'		190	
	15	2'		212	
	20	3.8		175	*Running on
16	32	6'		183	
	29	3'		207	
	26	2.5		239	*Running on
	22	0'			



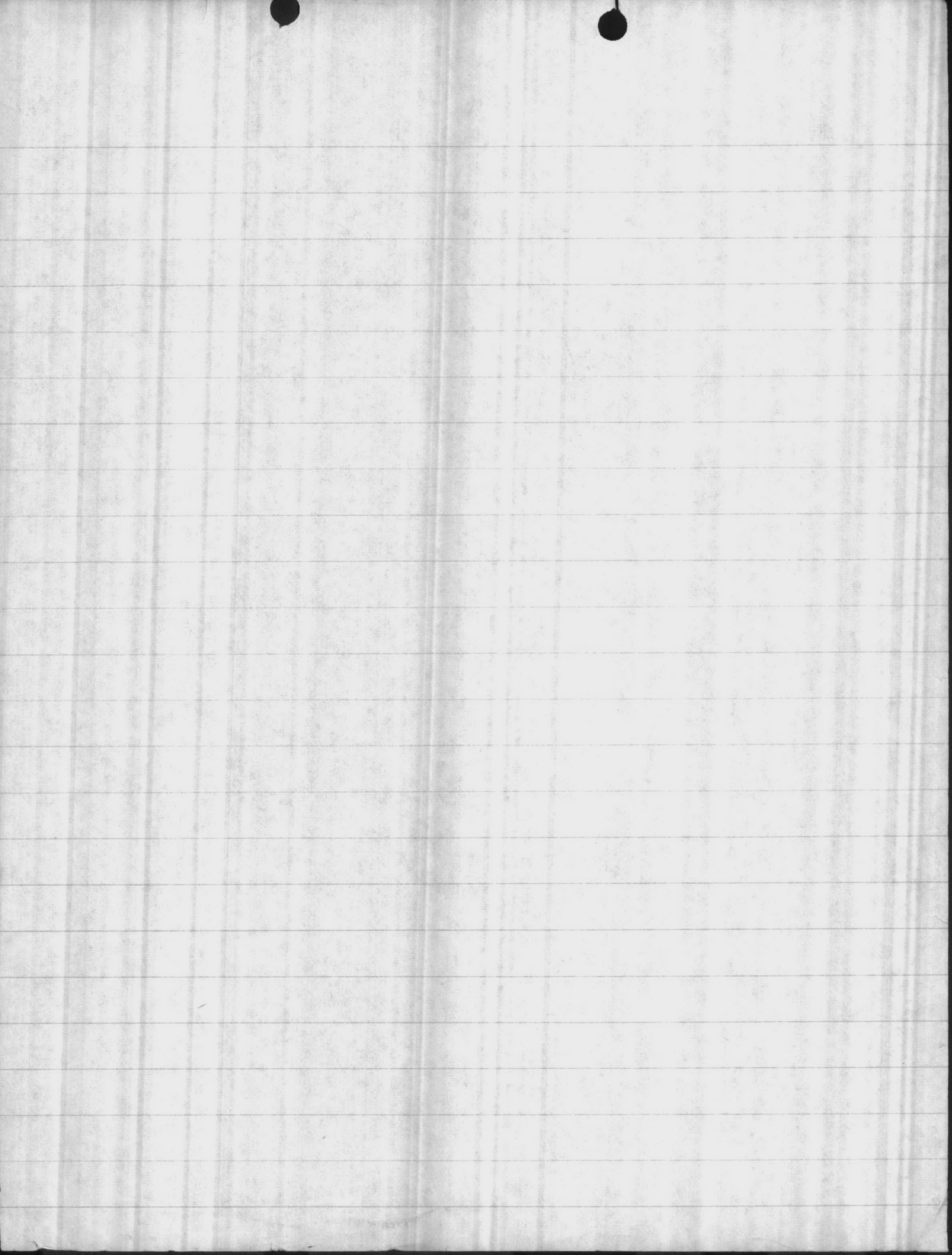
Total Raw water - Supply wells.  
 Hadnot Point - System

Well	Cap.			
		24	-	170
1	-	164	25'	- 140
2	-	108	26	- 239
3	-	167	27	- 195'
5	-	224	28	- 242
6	-	183	29	- 260
8	-	180	30	—
9	-	137	31	- 160
10	-	200	32	- 260
11	-	272	33	- 200
12	-	164	34	- 130
13	-	250	35'	- 172
14	-	248	36	- 200
15	-	212	R.	- 200
16	-	244	6594	
17	-	150		
18		195'		
19		80		
20		120		
21	-	128		
KCH-1	-	300		
KCH-2	-	300		

49  
~~5600~~

9  
 7  
 6300

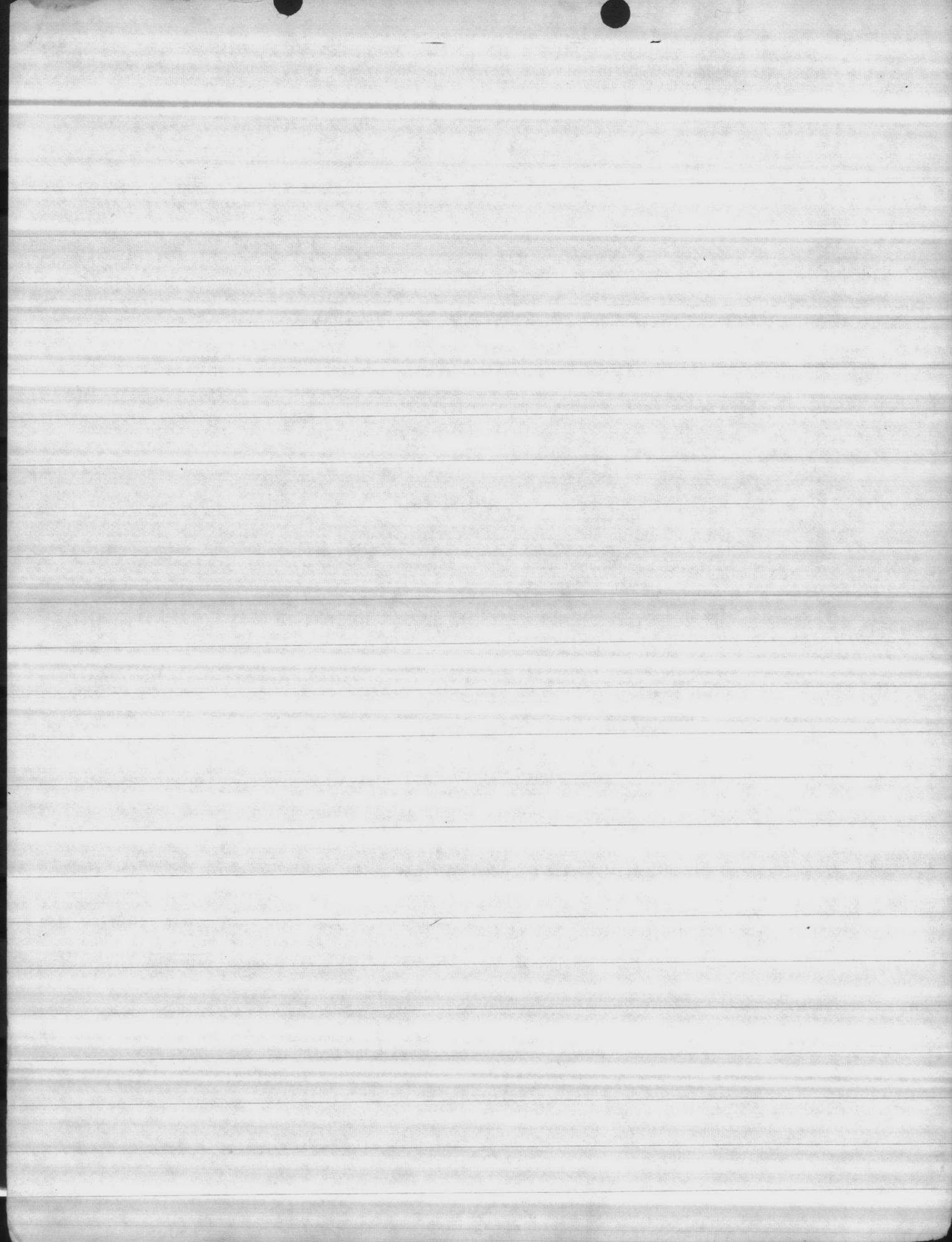
7  
 56  
 5800





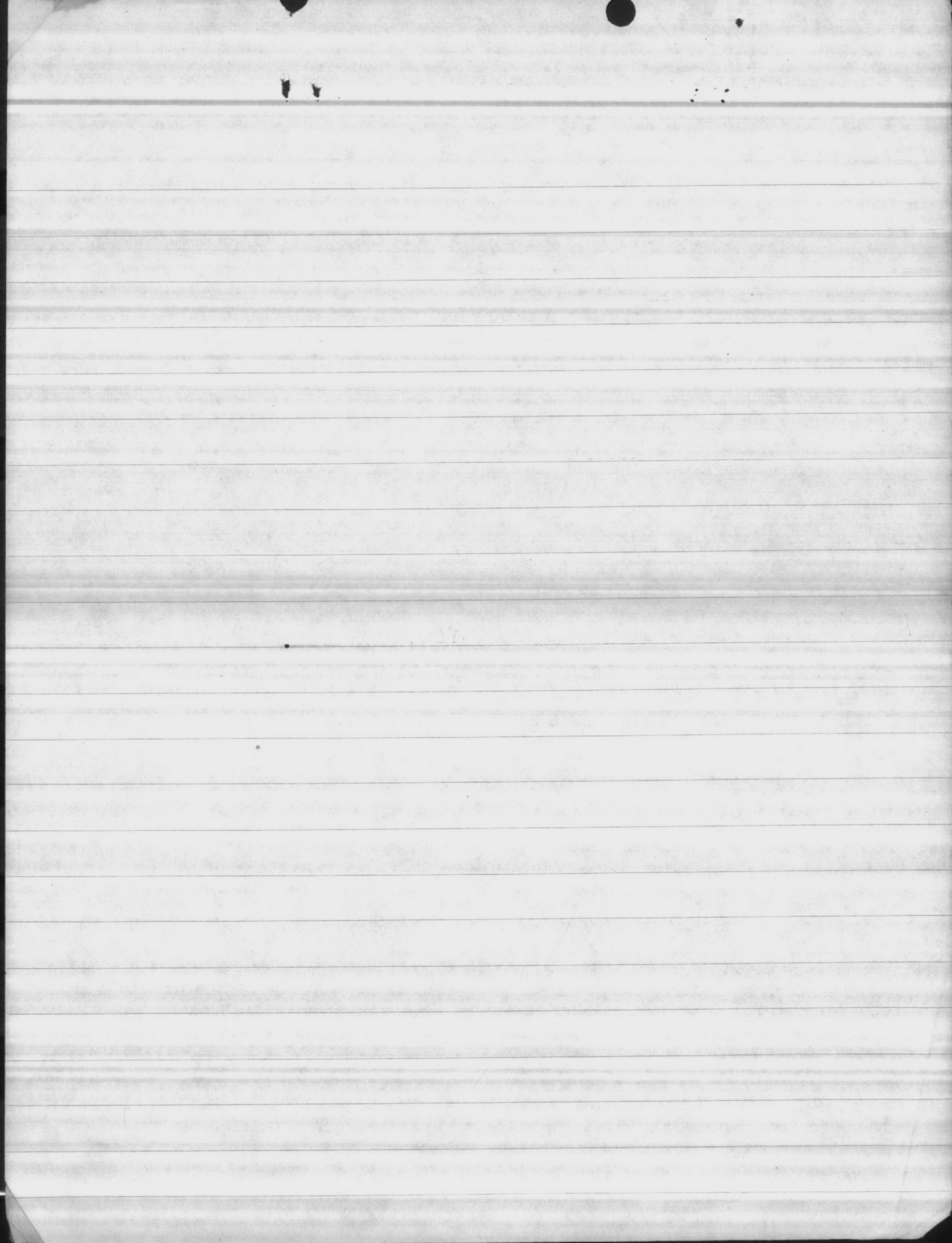
12 - 5 - 63

PRES, LBS.	D.D. GAGE READ.	G.P.M.	WELL
10	18	130 RUN	34
12	16	125	
8	18	140	
18	17	151 RUN	35
20	19	137	
16	16	162	
23	10	137	21
26	10	115	
20	10	137	
18	12	149 RUN	
11	50	175 RUN	36
14	46	164	
8	48	190 RUN	



1-7-64

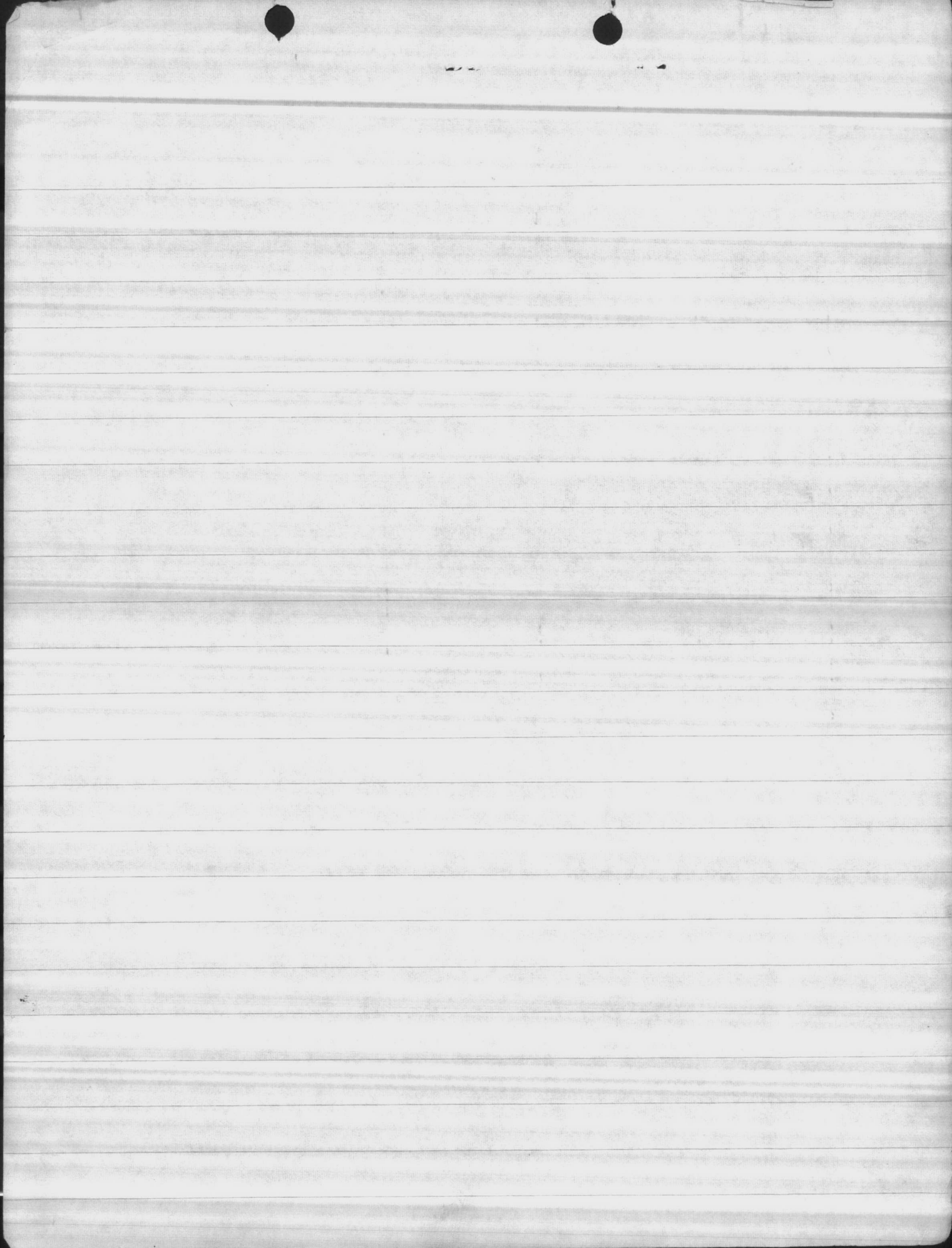
PR	DD	G.P.M	well No
23	4	254 +	# 11 RUN
25	5	254	
20	3	254 +	PUMP SAND
15	16	159	# 12 RUN
18	18	133	
20	14	125	
20	9	LESS THAN 100	# 15
15	12	100	
12	12	108	
9	16	115	RUN
22	6	239	# 14
25	5	210	
18	8	254	
20	6	246	RUN
20	4	151	# 17
17	4	164	RUN
23	4	133	
18	6	149	# 20 RUN



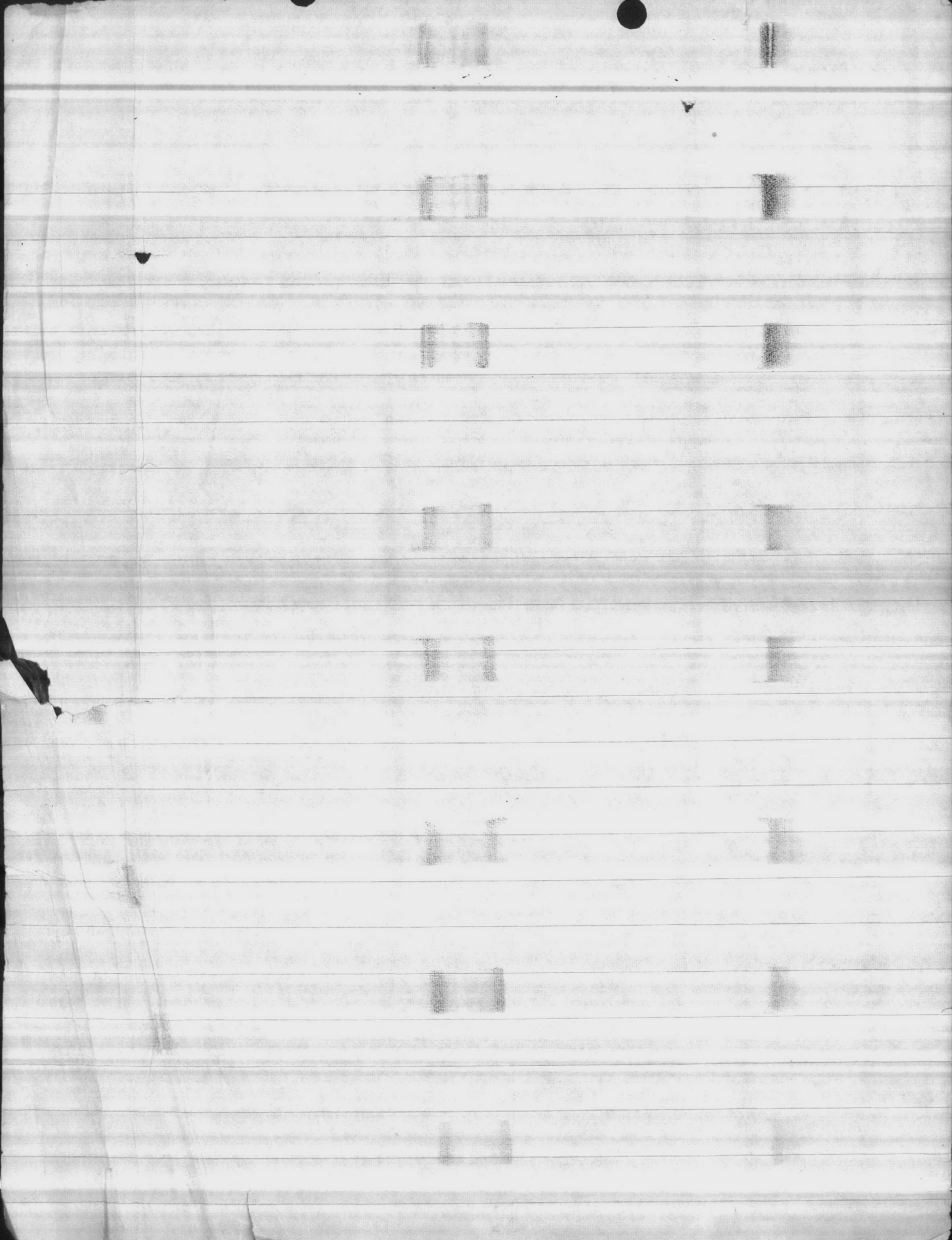
12 - 10 - 63

PRES	DD	GPM	WELL
16	13	185	18
18	11	175	1
14	16	192 RUN	
15	4	254	16
20	4	222 RUN	
24	4	295	
27	6	172	13
30	4	146	
24	4	195 RUN	
20	3	219	

196  
1  
11  
6 1/2



PR	DD	GPM	Well
25	19	159 RUN	33
22	16	187	
27	19	137	
27	46	100	5
24	42	140	
20	40	157 RUN	





WELL  
NO

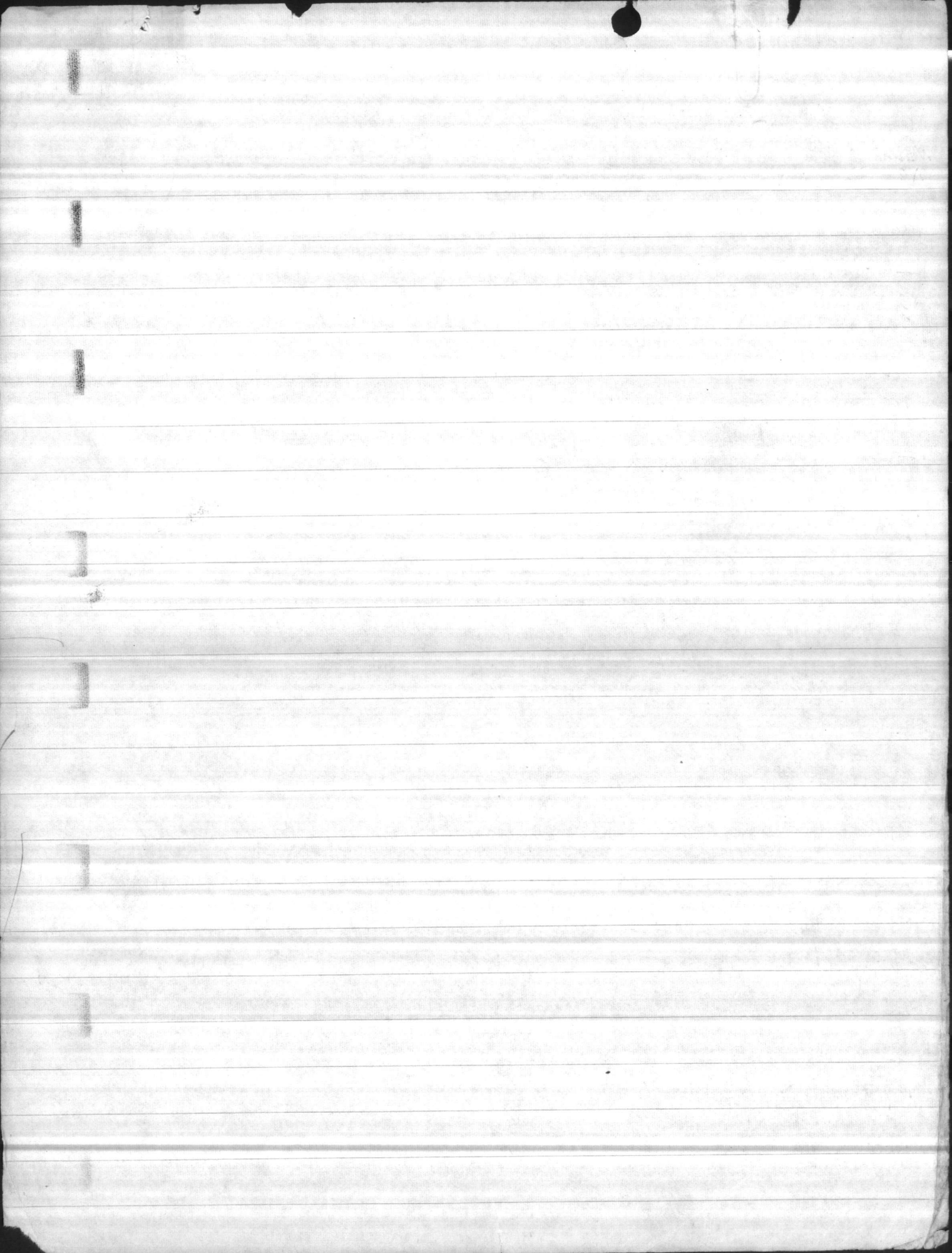
PR

DD

.ST.

WELL NO	PR	DD	.ST.
1	24	9.FT.	46.FT.
2			44.FT.
3	33	18.FT.	49.FT.
10	14	2.FT.	42.FT.
11	23	4.FT.	30.FT.
12	15	16.FT.	35.FT.
13	24	3.8.FT.	27.FT.
14	20	6.FT.	28.FT.
15	17	14.FT.	20.FT.
16	20	4.FT.	28.FT.
17	17	4.FT.	32.FT.
18	15	14.FT.	39.FT.
19	20	12.FT.	17.FT.
20	17	24.FT.	34.FT.
21	15	15.FT.	26.FT.
33	25	19.FT.	50.FT.
34	10	26.FT.	40.FT.
35	18	21.FT.	58.FT.
36	11	50.FT.	80.FT.
M. 1	62	10.FT.	13.FT.
M. 2	50	11.FT.	40.FT.

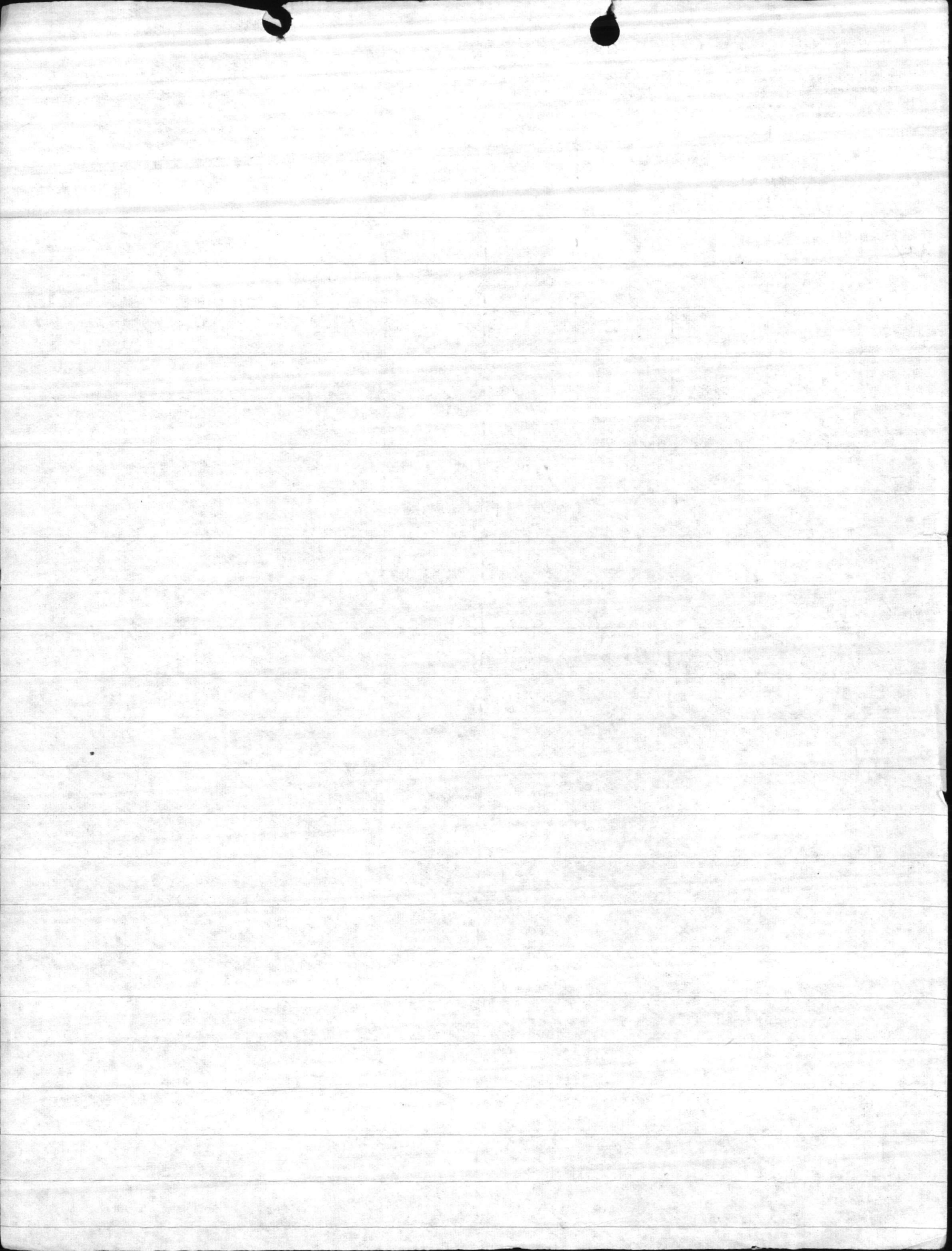
$$\begin{array}{r} 44 \\ 35 \\ \hline 09 \end{array}$$



Well test

Date

WELL #	D.S. PRESS.	GAGE D.D. FT	READING STATIC	G.P.M.	SHUTOFF HEADER	Remarks
12-12-61	PUT		49 ft			PUMP BASE TO WATER - 18' 7"
34						AIR LINE 67.9' - LOWER EL. 35.3
17	?	13	3			PUMP BASE TO WATER 23' 6"
						AIR LINE 50 1/2'
						out + cleaned. Thomas
	Date	2-8-62				
17	30	0	15	119		
17	25	0	-	151		
17	21	0		180		
17	21 1/2	0	-	178		
17	22 1/2	0		170		
19	23	-	-	-	-	
34	15	18		115'		
34	12	14		130		



HADNOT POINT WELLS