

Barrel Fillers Plain

1929

KE 0018086

N19524

No information 1

$$Nu_1 = \frac{54}{26} = 2.076923$$

$$Nu_2 = \frac{192}{26} = 7.384615$$

$$(Nu_1)^2 = 4.313609$$

$$Pi_2 = 7.384615 - 4.313609$$

$$Sigma = 1.752429 \times 5 = 8.762145$$

$$P.E. \text{ sig.} = \frac{.67449 \times 8.762145}{\sqrt{52}}$$

$$= \frac{5.909979}{7.211102}$$

$$= \pm .819567$$

$$\text{mean} = 2.076923 \times 5 + 27.5$$

$$= 37.884615 \text{ years}$$

$$P.E._m = \frac{5.909979}{\sqrt{26}}$$

$$= \frac{5.909979}{5.099000}$$

$$= \pm 1.159046$$

$$\text{mean} = 37.885 \pm 1.159 \text{ years}$$

$$S.D. = 8.762 \pm .820 \text{ years}$$

$$Nu_1 = \frac{63}{27} = 2.333331$$

$$Nu_2 = \frac{209}{27} = 7.740733$$

$$(Nu_1)^2 = 5.444434$$

$$Pi_2 = 2.296299$$

$$Sigma = 1.515354 \times 15 = 22.730$$

$$P.E. \text{ sig.} = \frac{.67449 \times 22.730310}{\sqrt{54}}$$

$$= \frac{15.331367}{7.349469}$$

$$= \pm 2.086051$$

$$\text{mean} = 2.333331 \times 15 + 122.5$$

$$= 157.499965 \text{ lbs.}$$

$$P.E. \text{ m} = \frac{.67449 \times 22.730310}{\sqrt{27}}$$

$$= \frac{15.331367}{5.196152}$$

$$= \pm 2.950523$$

$$\text{mean} = 157.500 \pm 2.951 \text{ lbs.}$$

$$S.D. = 22.730 \pm 2.086 \text{ lbs.}$$

70 - 70.9
71 - 71.9
72 -

4
2
3
27

7
8
9

2
1
2
13

$$Nu_1 = \frac{131}{27} = 4.851847$$

$$Nu_2 = \frac{815}{27} = 30.185155$$

$$(Nu_1)^2 = 23.540419$$

$$Pi_2 = 4.851846$$

$$Sigma = 2.202691 \times 1 = 2.202691$$

$$P.E. sig. = \frac{.67449 \times 2.202691}{\sqrt{54}}$$

$$= \frac{1.485693}{7.349469}$$

$$= \pm .202150$$

$$mean = 4.851847 \times 1 + 63.5$$

$$= 68.351847 \text{ inches}$$

$$P.E. m = \frac{.67449 \times 2.202691}{\sqrt{27}}$$

$$= \frac{1.485693}{5.196152}$$

$$= \pm .285922$$

$$mean = 68.352 \pm .286 \text{ inches}$$

$$S.D. = 2.203 \pm .202 \text{ inches}$$

KE 0018989

.05 - .059
 .06 - .069
 .07 - .079
 .08 - .089
 .09 - .099
 .10 -

5	5	
3	6	
5	7	
1	8	
3	9	
1	10	
<u>27</u>		14

$$Nu_1 = \frac{143}{27} = 5.296296$$

$$Nu_2 = \frac{949}{27} = 35.148148$$

$$(Nu_1)^2 = 28.050751$$

$$Pi_2 = 35.148148 - 28.050751$$

$$= 7.097397 \times .01$$

$$= .071 \text{ mgs.}$$

$$P.E. \text{ sig.} = \frac{.67449 \times .071}{\sqrt{54}}$$

$$= \frac{.048}{7.348}$$

$$= \pm .007$$

Wide variability.
 S. D. greater than
 the mean. Mean
 stable in spite of
 variability.

$$\text{mean} = 5.296296 \times .01 + .005$$

$$= .058 \text{ mgs. per liter ur}$$

$$P.E. \text{ m} = \frac{.67449 \times .071}{\sqrt{27}}$$

$$= \frac{.048}{5.196}$$

$$= \pm .009$$

$$\text{mean} = .058 \pm .009 \text{ mgs. Pb pe}$$

$$S.D. = .071 \pm .007 \text{ mgs.}$$

KE 0018990

$$Nu_1 = \frac{67}{27} = 2.481479$$

$$Nu_2 = \frac{209}{27} = 7.740733$$

$$(Nu_1)^2 = 6.157738$$

$$Pi_2 = 1.582995$$

$$Sigma = 1.258171 \times .04 =$$

$$P.E. sig. = \frac{.67449 \times .050327}{\sqrt{54}}$$

$$= \frac{.033945}{7.349469}$$

$$= \pm .004619$$

$$mean = 2.481479 \times .04 +$$

$$= .119259 \text{ mgs. Pb}$$

$$P.E._m = \frac{.67449 \times .050327}{\sqrt{27}}$$

$$= \frac{.033945}{5.196152}$$

$$= \pm .006533$$

$$mean = .119 \pm .007 \text{ mgs.}$$

$$S.D. = .050 \pm .005 \text{ mgs.}$$

KE 0018991

.20 - .239	1	5
.24 - .279	1	6
.28 - .319	0	7
.32 - .359	1	8
.36 - .399	0	9
.40 - .439	2	10
	<u>27</u>	

$$Nu_1 = \frac{79}{27} = 2.925925$$

$$Nu_2 = \frac{421}{27} = 15.592592$$

$$(Nu_1)^2 = 8.561037$$

$$Pi_2 = 15.592592 - 8.561037$$

$$= 7.031555$$

$$Sigma = 2.651707 \times .04 =$$

$$P.E. sig. = \frac{.67449 \times .106}{\sqrt{54}}$$

$$= \frac{.071}{7.348}$$

$$= \pm .009$$

$$mean = 2.925925 \times .04 +$$

$$= .137 \text{ mgs. Pb per}$$

$$P.E._m = \frac{.67449 \times .071}{\sqrt{27}}$$

$$= \frac{.071}{5.196}$$

$$= \pm .014$$

$$mean = .137 \pm .014 \text{ mgs.}$$

$$S.D. = .106 \pm .009 \text{ mgs.}$$

KE 0018992

$$\begin{array}{r} .96 - 1.11 \\ 1.12 - \end{array}$$

$$\begin{array}{r} 1 \\ 3 \\ \hline 27 \end{array} \quad \begin{array}{r} 6 \\ 7 \end{array}$$

$$Nu_1 = \frac{66}{27} = 2.444442$$

$$Nu_2 = \frac{298}{27} = 11.037026$$

$$(Nu_1)^2 = 5.975297$$

$$Pi_2 = 5.061729$$

$$Sigma = 2.249829 \times .16 =$$

$$P.E. \text{ sig.} = \frac{.67449 \times .359973}{\sqrt{54}}$$

$$= \frac{.242798}{7.349469}$$

$$= \pm .033036$$

$$\text{mean} = 2.444442 \times .16 +$$

$$= .471111 \text{ mgs. Pb}$$

$$P.E. \text{ m} = \frac{.67449 \times .359973}{\sqrt{27}}$$

$$= \frac{.242798}{5.196152}$$

$$= \pm .046727$$

$$\text{mean} = .471 \pm .047 \text{ mgs.}$$

$$S.D. = .360 \pm .033 \text{ mgs.}$$

KE 0018993

No information 1

$$Nu_1 = \frac{59}{26} = 2.269231$$

$$Nu_2 = \frac{213}{26} = 8.192308$$

$$(Nu_1)^2 = 5.149409$$

$$Pi_2 = 3.042899$$

$$Sigma = 1.744391 \times 4 = 6.$$

$$P.E. sig. = \frac{.67449 \times 6.977564}{\sqrt{52}}$$

$$= \frac{4.706297}{7.211102}$$

$$= \pm .652646$$

$$mean = 2.269231 \times 4 + 62$$

$$= 71.076921$$

$$P.E. m = \frac{.67449 \times 6.977564}{\sqrt{26}}$$

$$= \frac{4.706297}{5.099019}$$

$$= \pm .922981$$

$$mean = 71.077 \pm .923\% \text{ Ha}$$

$$S.D. = 6.978 \pm .653\% \text{ Ha}$$

KE 0018994

110 - 119
120 - 129
130 -

2	5
0	6
<u>1</u>	7
23	

No information 4

$$Nu_1 = \frac{60}{23} = 2.608696$$

$$Nu_2 = \frac{240}{23} = 10.434782$$

$$(Nu_1)^2 = 6.805295$$

$$Pi_2 = 3.629487$$

$$Sigma = 1.905121 \times 10 = 19.05121$$

$$P.E._{sig.} = \frac{.67449 \times 19.05121}{\sqrt{46}}$$

$$= \frac{12.849851}{6.782330}$$

$$= \pm 1.894607$$

$$mean = 2.608696 \times 10 + 6$$

$$= 91.086960 \text{ Dynam.}$$

$$P.E._m = \frac{.67449 \times 19.05121}{\sqrt{23}}$$

$$= \frac{12.849851}{4.795831}$$

$$= \pm 2.679379$$

$$mean = 91.087 \pm 2.679 \text{ Dy}$$

$$S.D. = 19.051 \pm 1.895 \text{ Dy}$$

KE 0018995

110 - 119	5	6
120 - 129	3	7
130 - 139	1	8
140 -	<u>1</u>	9
	23	

No information 4

$$Nu_1 = \frac{108}{23} = 4.695652$$

$$Nu_2 = \frac{632}{23} = 27.478269$$

$$(Nu_1)^2 = 22.049148$$

$$Pi_2 = 5.429120$$

$$Sigma = 2.330047 \times 10 = 23.30047$$

$$P.E.sig. = \frac{.67449 \times 23.30047}{\sqrt{46}}$$

$$= \frac{15.715934}{6.782329}$$

$$= \pm 2.317188$$

$$mean = 4.695652 \times 10 + 5$$

$$= 101.956520$$

$$P.E.m = \frac{.67449 \times 23.30047}{\sqrt{23}}$$

$$= \frac{15.715934}{4.795831}$$

$$= \pm 3.276999$$

$$mean = 101.957 \pm 3.277 D$$

$$S.D. = 23.300 \pm 2.317 D$$

KE 0018996

$$Nu_1 = \frac{51}{27} = 1.888887$$

$$Nu_2 = \frac{139}{27} = 5.148143$$

$$(Nu_1)^2 = 3.567894$$

$$Pi_2 = 1.580249$$

$$Sigma = 1.257080 \times 10 = 12.57080$$

$$P.E. \text{ sig.} = \frac{.67449 \times 12.57080}{\sqrt{54}}$$

$$= \frac{8.478879}{7.349469}$$

$$= \pm 1.153672$$

$$\text{mean} = 1.888887 \times 10 + 3$$

$$= 53.888870 \text{ mms. Hg}$$

$$P.E. _m = \frac{.67449 \times 12.57080}{\sqrt{27}}$$

$$= \frac{8.478879}{5.196152}$$

$$= \pm 1.631761$$

$$\text{mean} = 53.889 \pm 1.632 \text{ mm}$$

$$S.D. = 12.571 \pm 1.154 \text{ mm}$$

KE 0018997

$$Nu_1 = \frac{52}{27} = 1.925924$$

$$Nu_2 = \frac{150}{27} = 5.555550$$

$$(Nu_1)^2 = 3.709183$$

$$Pi_2 = 1.846367$$

$$Sigma = 1.358811 \times 10 = 13.58811$$

$$P.E. \text{ sig.} = \frac{.67449 \times 13.58811}{\sqrt{54}}$$

$$= \frac{9.165044}{7.349469}$$

$$= \pm 1.247035$$

$$\text{mean} = 1.925924 \times 10 + 134.259240$$

$$= 134.259240 \text{ mms. P}$$

$$P.E. \text{ m} = \frac{.67449 \times 13.58811}{\sqrt{27}}$$

$$= \frac{9.165044}{5.196152}$$

$$= \pm 1.763814$$

$$\text{mean} = 134.259 \pm 1.764 \text{ m}$$

$$S.D. = 13.588 \pm 1.247 \text{ mm}$$

KE 0018998

$$Nu_1 = \frac{37}{27} = 1.370369$$

$$Nu_2 = \frac{103}{27} = 3.814811$$

$$(Nu_1)^2 = 1.877911$$

$$Pi_2 = 1.936900$$

$$Sigma = 1.391726 \times 5 = 6.$$

$$P.E. sig. = \frac{.67449 \times 6.958630}{\sqrt{54}}$$

$$= \frac{4.693526}{7.349469}$$

$$= \pm .638621$$

$$mean = 1.370369 \times 5 + 72$$

$$= 79.351845$$

$$P.E. m = \frac{.67449 \times 6.958630}{\sqrt{27}}$$

$$= \frac{4.693526}{5.196152}$$

$$= \pm .903270$$

$$mean = 79.352 \pm .903 \text{ beat}$$

$$S.D. = 6.959 \pm .639 \text{ beat}$$

$$Nu_1 = \frac{61}{27} = 2.259257$$

$$Nu_2 = \frac{169}{27} = 6.259253$$

$$(Nu_1)^2 = 5.104242$$

$$Pi_2 = 1.155011$$

$$Sigma = 1.074714 \times .5 = .537357$$

$$P.E. sig. = \frac{.67449 \times .537357}{\sqrt{54}}$$

$$= \frac{.362442}{7.349469}$$

$$= \pm .0493154$$

$$mean = 2.259257 \times .5 + 97.23$$

$$= 98.379629$$

$$P.E._m = \frac{.67449 \times .537357}{\sqrt{27}}$$

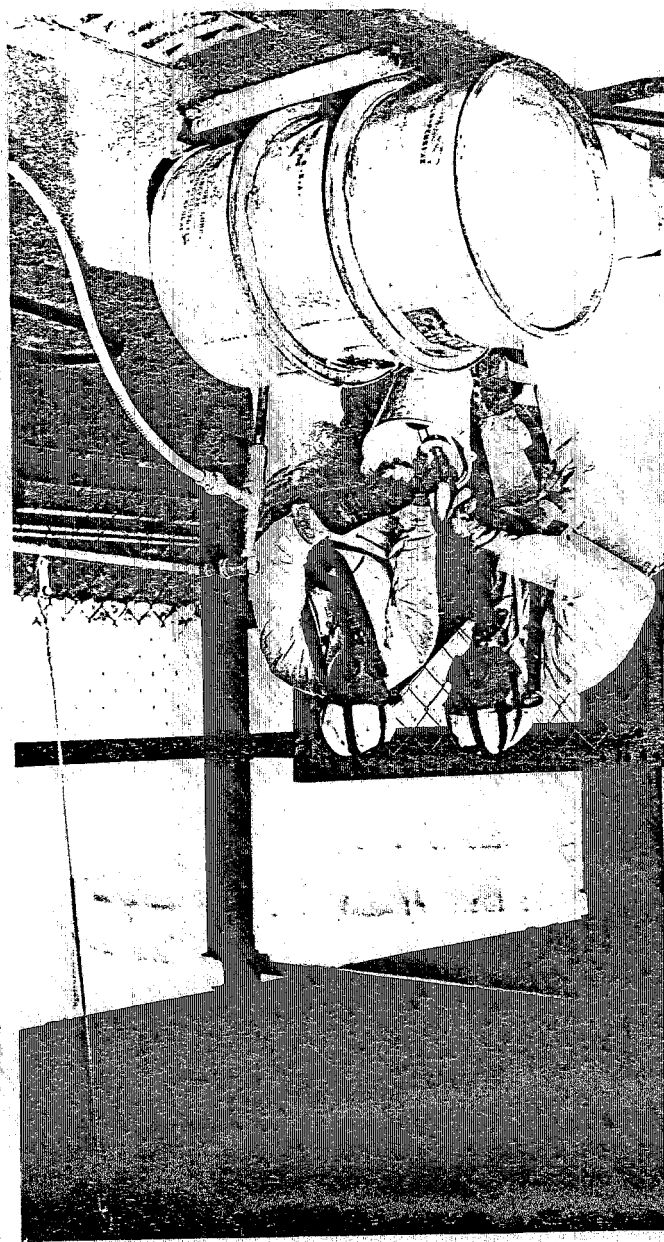
$$= \frac{.362442}{5.196152}$$

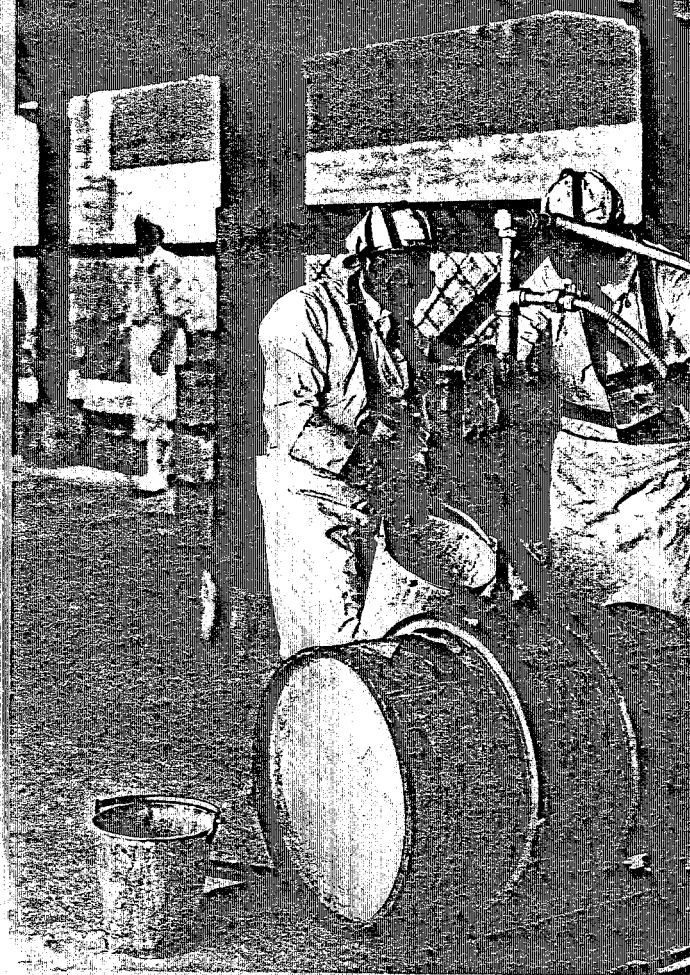
$$= \pm .069752$$

$$mean = 98.380 \pm .074^{\circ} F.$$

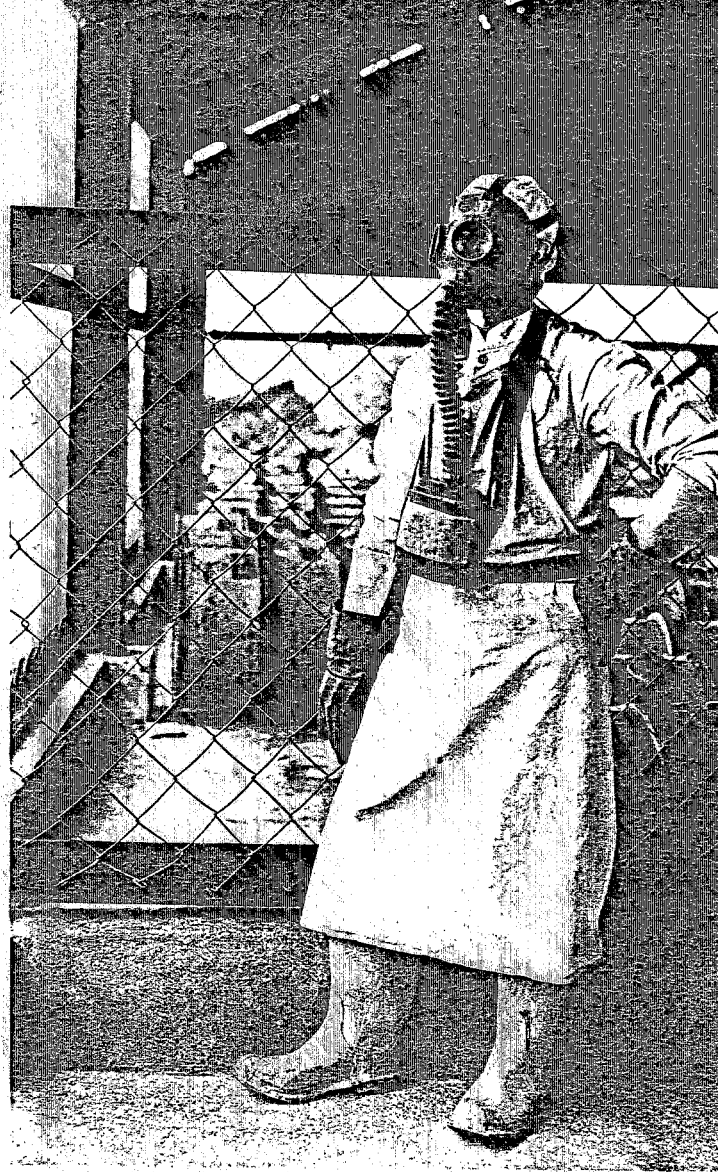
$$S.D. = .537 \pm .049^{\circ} F.$$

KE 0019000

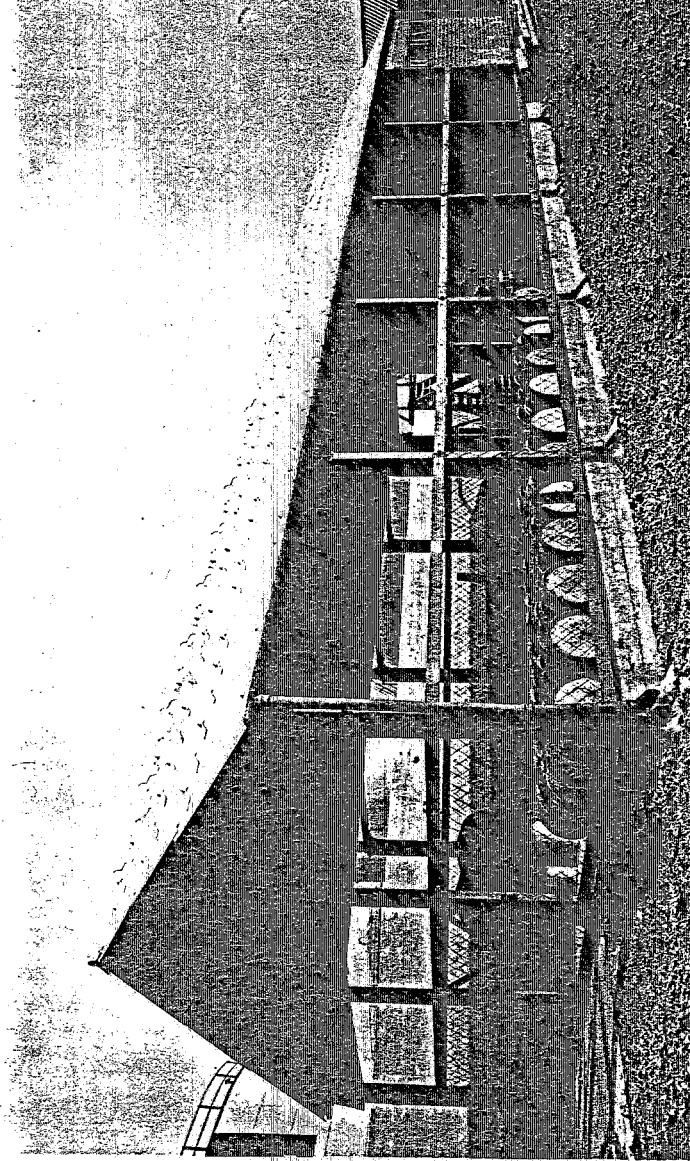




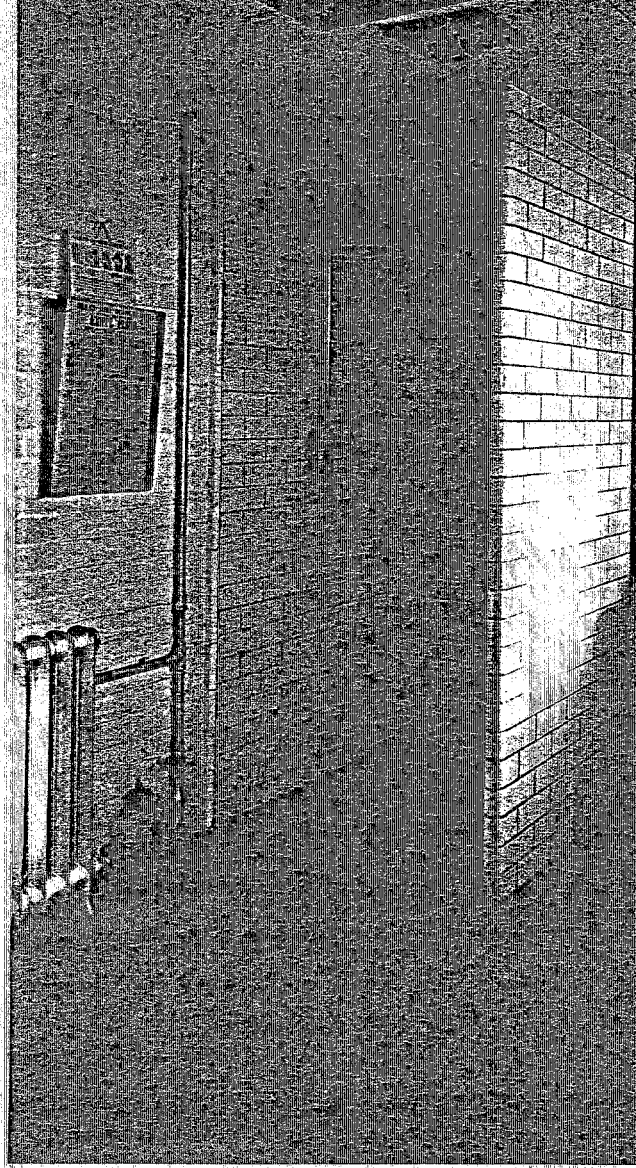
RF 0019002



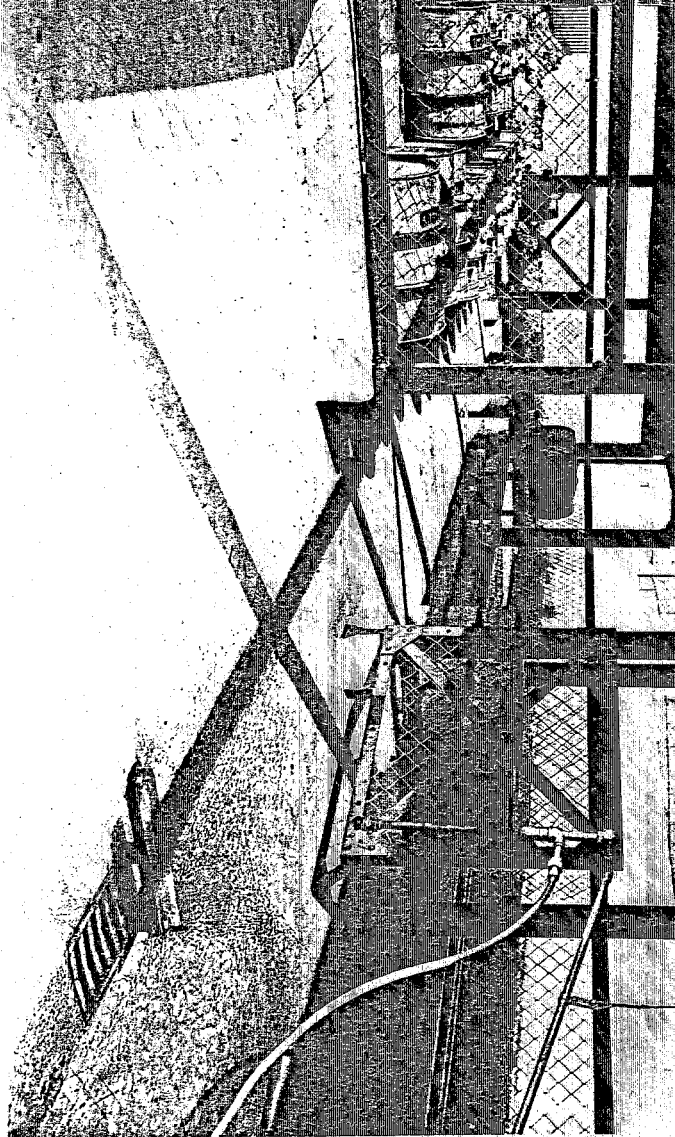
KE 0019003



KE 0019004



KE 0019005



KE 0019006

