MADE IN
CANADA

THE CANADIAN LINE

THIS BOOK IS

# SERIES NO. 1230

SIZE 12¼ x 10 INCHES

MADE IN THE FOLLOWING RULINGS

2 COLUMNS TO RIGHT
3 " "
4 " "
5 " "
6 " "
7 " "
8 " "
10 " "
12 " "
14 " "
16 " "
18 " "
20 " "
FEINT
QUADRILLE

MADE ONLY IN 150 PAGE THICKNESS

TO OBTAIN A DUPLICATE OF THIS BOOK
ORDER NO. 1230
SPECIFYING RULING AND THICKNESS

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NO.
1740

SHEET SIZE
12¼ x 10 INCHES

## COLUMNAR BOOKS

MADE IN THE FOLLOWING RULINGS AND THICKNESSES

2 COLUMNS to right, Single Page Form
3 " " " " " "
4 " " " " " "
5 " " " " " "
6 " " " " " "
7 " " " " " "
8 " " " " " "
10 " " " Double " "
12 " " " " " "
14 " " " " " "
16 " " " " " "
18 " " " " " "
20 " " " No Particular Space
FEINT
QUADRILLE

150 PAGES
300 "

To Duplicate This Book Order No. 1740 Stating Ruling and Thickness Wanted

CLARKE & STUART CO. LTD.
Manufacturers of Loose Leaf Devices
COMMERCIAL STATIONERS AND PRINTERS VANCOUVER, B.C.

MADE IN CANADA

# Dredge Nº 11

108' x 54' x 9' Deep

## Thaw W/O.

Block #81 - 4×5 × 555 / 27 × 22.1 = 88706 Cu.Yds.
22.1

#83 - 255 × 130 × 21.8 / 27 = 2675
21.8

Total = 115471

## Strip W/O

X=? 195-196 - 1/3 of 27% of Remainder = 1705 Cu.Yds.

196-197 - 25% = 5978

197-198 - 25% = 5845

198-199 - 26% = 6376

199-200 - 26% = 6920

200-201 - 25% = 6588

Total = 33412

Dredge # 11 October 1959

Dredge Operated 31 days
Dug 661 hrs. 50 min = 27.58 days = 88.96 %
Lost - 8 10 = 3.42 = 11.04 %
Avg. Hgt of bank - 2.7 ft.
Depth - 190 (5.8)
Total - 21.7

Surface

| | |
|---|---|
| 0908 | 1803 |
| 0006 | 0908 |
| 902 | 895 |

899 × 17.67 = 15 885 Sq Yds.

Bedrock

| | |
|---|---|
| 2654 | 3493 |
| 1810 | 2654 |
| 844 | 839 |

842 × 17.67 = 14 878 Sq Yds.

2 | 30 763
15 382

$\frac{15\,382 \times 21.7}{3}$ = 111 263 Cubic Yards.

$\frac{111\,263}{31}$ = 3589 Cu. Yds. per day elapsed Time

$\frac{111\,263}{27.58}$ = 4034 - - running -

Pond Elev. 1072.0
Claims dredged 2 ALC, And. Conc.
Surface Area 3.28 acres
Avg width of cut 250'
Length - 570'

| | | |
|---|---|---|
| 15 885 | 14 878 | 15 382 |
| 9 | 9 | 9 |
| 142 965 | 133 902 | 138 438 |

## Thaw W/O

Block #81 – 100 × 100 × 22.1 / 27 = 818 Cu Yds.
22.1

#83 – 130 × 130 × 21.8 / 27 = 18166 –
21.8

Total 2263 ✓

## Strip W/O

X⁼ 199-200 – 1/7 Remainder = 2814 Cu Yds

200-201 – 1/8 – = 2471 –

201-202 – 1/6 – (Oct + Nov) = 4118 –

Total = 9403 –

November 1949

Dredge No. 11

Shut down Nov. 11 - 8:00 AM.

Dredge operated 10 days
- dug 203 hrs. 30 min = 8.48 days = 84.79 %
- lost 36 - 30 " = 1.52 = 15.21 %
- Avg Hgt Bank = 3.0 Ft.
- Depth = 19.0
- Total = 22.0

(5.8)

Surface

2519 / 2297 / 222 /

2738 / 2519 / 219 /

221 × 17.67 = 3,905 Sq. Yds.

Bedrock

2941 / 2735 / 206 /

3150 / 2941 / 209 /

208 × 17.67 = 3,675 Sq Yds.

2) 7580

Avg. Area 3790 Sq. Yds.

$\frac{3790 \times 22.0}{3} = 27,793$ Cubic Yards.

$\frac{27,793}{10} = 2779$ Cubic Yards per day Elapsed time

$\frac{27793}{8.48} = 3277$ Running

Pond Elev — 1070.2
Claims dredged — Mud Conc.
Surface Area — .81
Avg. Width — 250'
Length — 140

3905 / 9 / 35145

3675 / 9 / 33075

3790 / 9 / 34110

## Thaw W/O

Block #81 - 110 x 27 x 22.1 / 27 = 2271 Cu.Yds.
22.1

#83 - 140 x 30 x 21.8 / 27 = 3391
21.8

Total = 5662

## Strip W/O

X2 199-200 - 1/5 Remainder = 675 Cu.Yds.

200-201 - 1/21 = 824

Total = 1499

DREDGE Nº 11 APRIL 1960 DREDGE STARTED APRIL 26 2:00 p.m.

DREDGE OPERATED 5 DAYS

✓ DUG - 99 hrs ✓✓ min = 4.16 days = 83.26%

✓ LOST - 20 - 09 - = 0.84 - = 16.74%

AVG. HGT OF BANK - 1.0 Ft.

✓ DEPTH - 20.4 - (6.0)

TOTAL. - 21.4 -

SURFACE

| | |
|---|---|
| 0160 | 0200 |
| 0120 | 0160 |
| 40 | 40 |

= 40 × 17.67 = 707 SQ. YDS.

BEDROCK

| | |
|---|---|
| 0233 | 0273 |
| 0194 | 0233 |
| 39 | 40 |

= 40 × 17.67 = 707 SQ. YDS.

$$\frac{707 \times 21.4}{3} = 5043 \text{ Cu. Yds.}$$

$$\frac{5043}{\checkmark} = 1009 \text{ Cu. Yds. elapsed time}$$

$$\frac{5043}{4.16} = 1212 \text{ ✓ running ✓}$$

POND ELEV - 1070.6

CLAIMS DREDGED - AND. CONC.

SURFACE AREA - 0.14 Acres.

AVG WIDTH - 230'

✓ LENGTH - 30

707
9
6363

## Thaw W/O

Block # 83 - $\frac{105 \times 170 \times 21.8}{27}$ = 7206 Cu. Yds.

Block # 81 - $\frac{5940}{5535} - \frac{6343}{5940} \quad 404 \times \frac{17.67 \times 22.1}{3}$ = 5576

Total = 5978

## Strip W O

X² 195-196 - 1/8 Remainder = 2155 Cu Yds

196-197 - 1/3 = 5979

197-198 - 1/3 = 5844

198-199 - 1/3 = 6050

199-200 - 1/5 = 3377

200-201 - 1/3 = 1330

total = 2473

Dredge #11 May 1960

Dredge operated 31 days
- Dug 672 hrs. 10 min = 28.01 days = 90.3% ✓
- Lost 71 - 50 - = 2.99 - = 9.6% ✓
Avg. Hgt. Bank = 3.4 Ft.
- - Depth = 19 ✓ (6.0)
Total - = 22.6 ✓

Surface - 9290 / 8660 / 630 ✓ — 9944 / 9290 / 654 ✓ — 633 × 17.67 = 11185 ✓ Sq. Yds.

Bedrock - 6577 / 9944 / 6.8 ✓ — 11961 / 6577 / 6.4 ✓ — 6.6 × 17.67 = 11061 ✓ — 2 / 22246 ✓

Avg. Area = 11123 ✓ ✓

11123 × 22.6 / 3 = 83793 ✓ Cu. Yds.

83793 / 31 = 2703 ✓ Cu. Yds. per day elapsed time

83793 / 28.01 = 2992 ✓ - - - running -

Pond Filler - 1073.1
Claims dredged - And Conc - 2A Below Mouth of Last Chance
Surface Area - 2.31 Acres. ✓
Avg. Width - 260 Ft.
- Length - 350 -

11185 / 9 = 1006 ✓ ✓ — 11061 / 9 = 994 ✓ — 11123 / 9 = 1001 ✓

Thaw W/o

Block # 81 — Remainder = 17085 Cu. Yds

" #79 - Remainder = 83076 "

Total = 100661 "

Strip W/o

X? 191-192 — 1/3 Remainder = 496 Cu. Yds

192-193 — 1/3 " = 4041 "

193-194 — 1/5 " = 408 "

194-195 — 1/5 " = 6140 "

195-196 — 1/5 " = 6034 "

Total = 25459

DREDGE N° 11 JUNE 1960

Dredge Operated 30 days
Dug 655 hrs 10 min - 27.30 days - 91.00 %
Lost 64 50 = 2.70 - 9.00 %
Avg. hgt. of bank - 3.7 ft.
Depth - 19.3
Total - 23.0 (6.0)

Surface

| | |
|---|---|
| 6765 | 5870 |
| 5870 | 4979 |
| 895 | 89.1 |

893 × 17.67 = 15,779 Sq Yds.

Bedrock

| | |
|---|---|
| 7680 | 8620 |
| 6746 | 7680 |
| 934 | 940 |

937 × 17.67 = 16,557 Sq Yds.

2) 32,336

Avg area = 16,168

$\frac{16168 \times 23}{3}$ = 123,955 Cubic Yards.

$\frac{123,955}{30}$ = 4,132 Cubic yards per day Elapsed time

$\frac{123,955}{27.30}$ = 4,540 Running

Pond Elev. - 1075.6
Claims dredged - 2 ALC.
Surface area - 3.26 acres.
Avg. Width - 250'
Length - ~~600'~~ 560'

| | | |
|---|---|---|
| 15,779 | 16,557 | 16168 |
| 9 | 9 | 9 |
| 142,011 | 149,013 | 145,512 |

Thaw W/O

Block #80 — $\frac{(85 \times 110) + (34 \times 135)}{27} \times 24.0$ = 4971 Cu. Yds.

Strip W/O

| | | |
|---|---|---|
| #2 191-192 | - 35% Remainder | = 3473 Cu. Yds |
| 192 - 193 | - 40% " | = 3393 " |
| 193 - 194 | - 50% " | = 3064 " |
| 194 - 195 | - 55% " | = 3704 " |
| 195 - 196 | - 63% " | = 3701 " |
| 196 - 197 | - 64% " | = 7643 " |
| 197 - 198 | - 63% " | = 7367 " |
| | | Total = 35711 |

Deduct from Total Depth

$\frac{18977 \times 23.2}{3}$ = 146733 Cu Yds

$\frac{146733}{31}$ = 4734 Cu Yds per day elapsed time

$\frac{146733}{28.20}$ = 5204 " " running "

Dredge #11 July 1960

Dredge operated 31 days
- Dug 676 hrs. 47 min. = 28.20 days = 90.98%
- Lost 67 - 0 - = 2.80 - = 9.02%
Avg Height Bank = 4.7 Ft.
- Depths = 20 -
Total - = 20 -

Surface - 3376 / 3376 / 1076 × 17.67 = 19017 Sq Yds.
1076 / 1073

Bedrock - 1036 / 1010 / 1072 / 1070 / 1072 × 17.67 = 18947 / - = 18947 / - = 37944 /
Avg Area = 18977 /

18977 × 8.4 / 3 = 159407 Cu. Yds.

159407 / 31 = 5142 Cu. Yds. per day elapsed time

159407 / 28.20 = 5653 / - - - running - -

Pond Elev. - 1073.1
Claims dredged - > Bel. Mouth at Last Chance - And. Conc.
Surface Area - 3.93 Acres
Avg Width - 270 Ft.
- Length - 670 /

19017 / 9 = 17108 /
18947 / 9 = 170478 /
18977 / 9 = 170793 /

## Thaw W/O

Block #80 - $\frac{200 \times 140 \times 240}{27}$ = 24889 Cu. Yds.

#82 - 8848 0.27 / 8139 9.47 — 709 / 20.1 — $\frac{707 \times 19.0 \times 24}{27}$ = 9993 ✓

#83 - 9960 0.43 / 9675 0.26 — 285 / 18.7 — $\frac{286 \times 19.0 \times 21.8}{27}$ = 3677 ✓

Total = 16167 ✓

## Strip W/O

XD 198-199 - 3/- Remainder = 7360 Cu. Yds.

199-200 - 3/- ✓ = 7698 ✓

200-201 - 3/- ✓ = 9084 ✓

201-202 - 1/- ✓ = 10295 ✓

202-203 - 1/- ✓ = 11357 ✓

Total 45964 ✓

Dredge N° 11 — August 1960

Dredge operated 31 days
- dug 677 hrs. 25 min = 28.23 days = 91.05 %
- lost 66 - 35 - = 2.77 - = 8.95 %
Avg Hgt. Bank = 3.0 Ft.
- Depth = 19.4 -
Total - = 22.4 -

(6.2)

Surface - 89 76 13 / 131 = 89 02 31 / 130 — 1309 × 17.67 = 23130 Sq. Yds.

Bedrock - 13 02 37 / 129 — 28 13 13 / 196 — 196 × 17.67 = 22900 / 46030 — Avg Area = 2301 —

2301 × 22.4 / 3 = 17184 Cu. Yds.

17184 / 28.23 = 608.7 Cu. Yds. per day elapsed time

17184 / - = 608.7 - - running -

Pond Elev - 1068.7
Claims dredged - And. Cox.
Surface Area - 4.78 Acres
Avg Width - 300 Ft
Length - 690 Ft.

23130 / 9 = 208170 — 22900 / 9 = 206100 — 2301 / 9 = 20735

## Thaw W/O

Block #83 - Remainder = 7709 Cu Yds

- #8 21.9 — 40 × 24 × 21.9 / 27 = 10730 -

- #84 — 23.3 — 30 × 30 × 23.3 / 27 = 9954 -

Total = 170973

## Strip W/O

X? 201 - 202 - 0% Remainder = 148 Cu Yds.

202 - 203 - 0% - = 764 -

203 - 204 - 54% - = 1246 -

204 - 205 - 54% - = 1040 -

205 - 206 - 40% - = 8151 -

Total = 12549 -

Dredge N°11 - Sept. 1960

Dredge operated 30 days
- dug 661 hrs. 55 min = 27.58 days = 91.93 %
- lost 58 - 05 - = 2.42 - = 8.07 %
Avg Hgt Bank = 4.3 ft
- Depth = 18.2 -
Total - = 22.5 - (6.0)

Surface - 7690 − 6410 = 1280 / 8970 − 7690 = 1280 / 1280 × 17.67 = 22618 Sq. Yds.

Bedrock - 0245 − 8973 = 1272 / 1517 − 0245 = 1272 / 1272 × 17.67 = 22476 -
22 | 45094
Avg Area = 22547 / -

22547 × 7.5 / 3 = 169103 Cu. Yds.

169103 / 30 = 5637 = Cu. Yds. per day elapsed time

169103 / 27.58 = 6131 = - - running -

Pond Elev - 1065.9
Claims dredged - And. Conc.
Surface Area - 4.67 Acres.
Avg width - 225 ft.
- length - 905 -

22618 × 9 = 203562 / 22476 × 9 = 202284 / 22547 × 9 = 202923 /

## Thaw W/O

Block #8 — 190 × 20 × 24.0 / 27 = 1111 Cu Yds.
24.0

#84 — 300 × 400 × 23.3 / 27 = 10355 ✓
23.3

#85 — 340 × 300 × 21.9 / 27 = 8967 ✓
21.9

Total = 164677 ✓

## Strip W/O

102 201 - 203 — 2/3 Remainder = 306 Cu Yds.

203 - 204 — 3/4 ✓ = 6411 ✓

204 - 205 — 3/4 ✓ = 7592 ✓

205 - 206 — 2/3 ✓ = 8150 ✓

206 - 207 — 3/4 ✓ = 18129 ✓

207 - 208 — 1/4 ✓ = 3896 ✓

Total = 44484 ✓

Dredge #1 11 October 1960

Dredge operated 31 days
dug 685 hrs. 50 min = 28.58 days = 92.18%
lost 58 - 10 - = 2.42 - = 7.82%
Avg Hgt Bank = 3.5 Ft.
Depths = 18.0 -
Total = 21.5 (6.8)

Surface 7754 / 4530 = 1224 ; 6976 / 7754 = 1222
1223 x 17.67 = 21610 Sq Yds

Bedrock - 8187 / 6580 = 1207 ; 9400 / 8187 = 1213
1210 x 17.67 = 21380
14990
Avg Area = 21495

7165 / 21495 x 21.5 = 154048
3

154048 / 31 = 4969 Cu. Yds. per day elapsed time

154048 / 28.58 = 5390 running

Pond Elev. - 1064.
Claims dredged - And Conc
Surface Area - 4.46 Acres.
Avg Width - 205 Ft.
Length - 950

21610 / 9 = 194490 ; 21380 / 9 = 192420 ; 21495 / 9 = 193455

## Thaw W/O

Block #87 - 270 x 170 x 21.9 / 27 = 3730 Cu. Yds.
21.9

Block #87 - 200 x 130 x 21.5 / 27 = 21500
21.5

Total = 58730

## Strip W/O

X² 206 - 207 - 1/3 Remainder = 2015 Cu. Yds.

207 - 208 - 1/1 = 3896

208 - 209 - 1/1 = 4275

209 - 210 - 1/6 = 3323

Total = 13486

Dredge #11 — November 1960

Shutdown Nov 16 - 8:00 PM

Dredge operated 15 days
- dug 335 hr. 0 min = 13.96 days = 93.06 %
- lost 25 - 0 - = 1.04 - = 6.94 %

Avg Hgt Bank = 3.2 Ft.
- Depth = 17.9 -
Total - = 21.1 -

7.0

Surface — 2998 / 2531 / 467 ; 3478 / 2998 / 480 ; 3945 / 3478 / 467 ; 467 x 17.67 = 8255 Sq. Yds.

Bedrock — 4400 / 3940 / 460 ; 4862 / 4400 / 462 ; 461 x 17.67 = 8146 - = 16398

Avg. Area = 8199

2733
8199 x 21.1 / 3 = 57666 Cu. Yds.

57666 / 15 = 3844 Cu. Yds. per day elapsed time

57666 / 13.96 = 4131 - - running -

Pond Elev - 1063.8
Claims dredged - And. Con.
Surface Area - 1.70 Acres
Avg width - 200 Ft.
- Length - 390 -

8255 / 9 = 74268 ; 8146 / 9 = 73314 ; 8199 / 9 = 73791

Thaw W/O

Block #87 - $\frac{60 \times 35 \times 21.9}{27}$ = 1703 Cu. Yds.
21.9

#87 - $\frac{44 \times 130 \times 21.5}{27}$ = 4658
21.5

Total: 6361

Strip W/O

#2 208 - 209 - 1/20 Remainder = 850 Cu. Yds.

209 - 210 - 1/20 - = 831

Total - 1681

Dredge No. 11 — April, 1961

Started Apr. 27 - 1:00 pm.

Dredge operated 4 days

- Avg. 86 hrs. 0 min = 3.58 days = 89.58 %
- Lost 10 " 0 " = 0.42 " = 10.42 %

Avg. Hgt Bank = 1.0 Ft.
" Depth = 21.0 "
Total " = 22.0 " (6.0)

Surface

| | | |
|---|---|---|
| 7258 | 7306 | |
| 7207 | 7258 | |
| 51 | 48 | 50 × 17.67 = 883 Sq. Yds |

Bedrock

| | | |
|---|---|---|
| 7371 | 7468 | |
| 7323 | 7419 | |
| 48 | 49 | 49 × 17.67 = 866 Sq. Yds. |

2)1749

Avg. = 875

$\frac{875 \times 22.0}{3}$ = 6417 Cubic Yards.

$\frac{6417}{4}$ = 1604 Cu. Yds. per day elapsed time

$\frac{6417}{3.58}$ = 1792 " " running "

Pond Elev. — 1063.8
Claims Dredged — And. Conc.
Surface Area — 0.18 acre.
Avg. Width — 200'
Avg Length — 40'

| | | |
|---|---|---|
| 883 | 866 | 875 |
| 9 | 9 | 9 |
| 7947 | 7794 | 7875 |

Thaw W/O

Block #84 - 310 x 17 x 23.3 / 27 = 14714 Cu Yds

- #85 - Remainder = 6650 ✓

- #86 - 250 x 160 x 21.7 / 27 = 32148 ✓

- #87 - 270 x 145 x 21.5 / 27 = 31175 ✓

Total = 84687 ✓

Strip W/O

X12 206-207 - 1/5 Remainder = 161 ✓ Cu Yds.

207-208 - 3/4 ✓ = 11691 ✓

208-205 - 2/3 ✓ = 10704 ✓

209-210 - 1/7 ✓ = 2332 ✓

Total = 26262 ✓

Dredge N° 11 May 1961

Dredge operated 31 days
dug 697 hrs. 01 min = 29.01 days = 93.69 %
lost 46 " = 1.92 " = 6.31 %
Avg Height Bank = 4.5 Ft
" Depth = 17.4 "
Total = 21.9 " (L.D)

Surface
5192 5920
4469 5192
723 728
Avg = 726 × 17.67 = 12,828 Sq Yds.

Bedrock
6640 7361
5922 6640
718 721
Avg = 720 × 17.67 = 12,722 Sq Yds.
2)25550
Avg = 12,775

$\frac{12,775 \times 21.9}{3} = 93,258$ Cubic Yards

$\frac{93258}{31} = 3,008$ Cubic Yards per day Elapsed time

$\frac{93258}{29.05} = 3,210$ " " " " Running "

Pond Elev = 1060.7
Clamps dredged = AND Conc
Surface Area = 2.65 acres
Avg width = 210
Length = 560

12,828 × 9 = 115,452
12,722 × 9 = 114,498
12,775 × 9 = 114,975

## Thaxi W/O

Block #86 - 300 x 20' x 21.7 = 49427 Cu. Yds.
21.7

Block #87 - 244' x 37' x 21.5' = 73160 -
21.5

Total = 122'87 '

## Strip W/O

X² 208-209 - 1/3 Remainder = 1819 Cu. Yds.

209-210 - 3/4 ' = 10146 '

210-211 - 4/5 ' = 17008 '

211-212 - 1/3 ' = 6910 -

212-213 - 1/8 ' = 2352 -

Total = 38235 '

Dredge No. 11 June 1961

Dredge operated 30 days
- Dug 664 hrs. 10 min = 27.67 days = 92.2%
- lost 25 - 50 - = 2.33 - = 7.7%
Avg Hgt Bank = 4.5 Ft.
- Depth = 17.7 -
Total - = 22.2 - (6.0)

Surface - 4521 5683 / 3360 4521 / 1161 1162 — 1162 × 17.67 = 20533 Sq. Yds.

Bedrock - 6814 7934 / 5685 6814 / 1129 1120 — 1120 × 17.67 = 19879 —

20412 —

Avg Area = 20206 —

20206 × 7.4/22.2 / 3 = 149244 Cu. Yds.

149244 / 30 = 4984 Cu. Yds. per day Elapsed Time

149244 / 27.67 = 5404 — — running —

Pond Elev - 1059.6
Claims dredged - And. Conc.
Surface Area - 4.24 Acres
Avg. Width - 210 Ft.
Length - 860 -

20533 × 9 = 184797
19879 × 9 = 178911
20206 × 9 = 181854

Thaw W/O

Block # 87. Remainder = 8936 Cu. Yds

- # 89. 40 x 100 x 21.9 / 27 = 3600 ✓
- # 86. 290 x 130 x 21.7 / 27 = 3145 ✓
- # 88. 260 x 280 x 21.8 / 27 = 18779 ✓

Total = 184680 ✓

Strip W/O

X? 211 - 212 - 2/3 Remainder = 9212 Cu Yds.

212 - 213 - 4/5 ✓ = 15172 -

213 - 214 - 4/5 ✓ = 14064 -

214 - 215 - 1/4 - = 4044 -

Total = 40490 -

Dredge № 11 July 1961

Dredge operated 31 days
- dug 690 hrs. 0 min = 28.75 days = 92.74 %
- lost 54 - 0 - = 2.70 - = 7.26 %
Avg. Hgt Bank = 3.7 Ft.
- Depth = 19.2 -
Total - = 22.9 -

(6.0)

Surface

4061 − 2799 = 1262 ✓
5391 − 4128 = 1263 ✓

1263 × 17.67 = 22,317 Sq. Yds ✓

Bedrock

6677 − 5446 = 1231 ✓
7947 − 6717 = 1230 ✓

1231 × 17.67 = 21,752 Sq. Yds ✓

2 | 44,069
22,035 ✓

$22{,}035 \times \frac{7.634}{22.9} \div 3 = 168{,}215$ Cu. Yds. ✓

$\frac{168{,}215}{31} =$ 5,426 Cu. Yds per day elapsed time ✓

$\frac{168{,}215}{28.75} =$ 5,851 Cu. Yds - running

Pond Elev - 1059.9
Claims dredged - And. Sns.
Surface Area - 4.59 Acres
Avg width - 225 Ft.
- Length - 1030 -

22317 + 175 + 2035
9 9 9
200853 195768 198315

## Thaw W/O

Block #89- Remainder = 13434 CY.

- #90 - 360 x 40 x 21.7 = 11573 -
  21.7 27

- #88 - 7740 7853 / 7770 = 13484 -
  21.8 106 103

10 x 9.0 x 21.8 = 9399
27

Total = W9399

## Strip W/O

X12 213 - 214 - 1/3 Remainder = 1171 CY.

214 - 215 - 4/5 - = 9700 -

215 - 216 - 3/3 - = 11546 -

216 - 217 - 3/5 - = 11502 -

217 - 218 - 3/5 - = 11876 -

Total = 45773 -

# Dredge No 11. Aug 1961

Dredge operated - 31 days
- dug 686 hrs. 10 min = 28.58 days = 92.23%
- lost 7 " 50 " = 2.41 " = 7.77%
Avg Hgt Bank = 3.4 Ft.
- Depth = 17.8 (6.0)
Total = 21.2

Surface

| | |
|---|---|
| 6033 | 7299 |
| -4782 | -6050 |
| 1251 | 1249 |

1250 x 17.67 = 22,088 Sq Yds

Bedrock

| | |
|---|---|
| 8550 | 9848 |
| -7318 | -8618 |
| 1232 | 1230 |

1231 x 17.67 = 21,752 Sq. Yds.

2 | 43,840

21,920

~~7.067~~ ~~6.839~~ 154908

$21,920 \times \frac{21.2}{3} =$ ~~149,911~~ Cu. Yds.

$\frac{154908}{\cancel{149,911}}{31} =$ ~~4947~~ ~~4,836~~ Cu. Yds per day elapsed time

$\frac{154908}{\cancel{149,911}}{28,59} =$ ~~5418~~ ~~5,243~~ Cu. Yds " " running "

Pond Elev = 1057.2
Claims dredged = And. Conc.
Surface Area = 4.56 Acres
Avg width = 220 Ft.
- Length = 870 -

| | | |
|---|---|---|
| 22088 | 21752 | 21920 |
| 9 | 9 | 9 |
| 198792 | 195768 | 197280 |

## Thaw W/O

| | | |
|---|---|---|
| Block # 88 - | 90 × 11' × 21.5 | = 8.395 Cu. Yds |
| - 90 - | 300 × 38' × 21.7 + 90 × 70 × 21.7 | = 96444 - |
| - 91 - | Remainder | = 3637 - |
| - 92 - | 170 × 30 × 21.6 | = 4080 - |
| - 93 - | 180 × 70 × 21.1 | = 2031 - |
| | Total | = 147303 - |

## Strip W/O

| | | | |
|---|---|---|---|
| #? 215 - 216 | - | 1/4 Remainder | = 1443 Cu. Yds. |
| 216 - 217 | - | 1/3 - | = 2176 - |
| 217 - 218 | - | 1/3 - | = 2634 - |
| 218 - 219 | - | 3/4 - | = 1377 - |
| 219 - 220 | - | Remainder | = 1077 - |
| 220 - 221 | - | - | = 4676 - |
| 221 - 222 | - | - | = 6803 - |
| 222 - 223 | - | 3/4 - | = 7002 - |
| | | | Total = 48876 - |

Dredge #11 Sept 1961

Dredge operated 30 days
dug 658 hrs. 35 min = 27.44 days = 91.47%
lost 61 " 2.56 " = 8.53%
Avg Depth 8' = 3.8 Ft.
" Depth = 17.4
Total " = 21.2 (6.0)

Surface
8992 - 7713 = 1279
5471 - 4195 = 1276

Bedrock
6782 - 5555 = 1227
8064 - 6840 = 1224

1278 x 17.67 = 22.582 Sq. Yds.
1226 x 17.67 = 21.663
2 | 44.245
Avg. Area 22,123 Sq Yds.

$$22{,}123 \times \frac{21.2}{3} = 156{,}329 \text{ Cu. Yds.}$$

7,374

$\frac{156,329}{30} = 5{,}211$ Cu. Yds per day elapsed time.

$\frac{156,329}{27.44} = 5{,}697$ Cu Yds " " running

Pond Elev = 1052.9.
Dams dredged = Rnd. Conc.
Surface Area = 4.67 Acres.
Avg width = 400 Ft.
Length = 5000

2988 ft | 1663 ft | 1323 ft

203238 | 194967 | 199107

## Thaw W/O

Block #92 - 410 x 105 x 21.6 / 27 = 3780 Cubic

- 493 - Remainder - 280 = 10077 -
21.1

- 492 - 317 x 120 x 203 / 27 = 3840 -

Total = 17975 -

## Strip W/O

#3 23-24 - 1/2 Remainder = 37 CYS.

24-25 - 3/- = 675 ✓

25-26 = 3/- = 850 -

26-27 - 1/2 = 948 -

27-28 - 1/2 = 770 -

28-29 - 1/2 = 168 -

29-30 - 3/- = 759 -

30 31 - 1/2 = 641 -

Total = 4668 -

Dredge N° 11. Oct. 1961.

Dredge operated 31 days
" dug 676 hrs 45 min = 28.20 days = 90.96%
" lost 67 " 15 " = 2.80 " = 9.04%
Avg Hyt Bank = 3.6 Ft.
" Depth = 18.2 "
Total " = 21.8 "

(6.0)

Surface:

Bedrock: 3633 − 2376 = 1257 ; 4957 − 3700 = 1251
1254 × 17,67 = 22,158 Cu.

Surface: 6240 − 5059 = 1181 ; 8810 − 7631 = 1179
1180 × 17,67 = 20,857
2 143,009
21,505

$\frac{7168}{21,505} \times \frac{21.8}{3} = 156,262$ Cu. Yrds.

$\frac{156,262}{31} = 5041$ Cu yrds per day elapsed time

$\frac{156,262}{28.2} = 5541$ " " " " running "

Pond Filer
Claims dredged - And. Conc
Surface Area - 44.58 Acres.
Avg width - 217 Ft.
- Length - 750

2218 × 9 = 199422
2085 × 9 = 187659
2150 × 9 = 193500

Thaw W/O

Block #95 - $\frac{300 \times 0.3}{3}$ (100) = 030 CuYds

Strip W/O

$x^2$ 30 - 231 - 1/5 - Remainder = 1248 ✓

Dredge #11 November 1961
Shutdown Nov 4 - 8:30 AM

Dredge operated 3 days
dug 20 hrs. 50 min = 0.87 days = 28.94 %
1067 21 - 10 - = 2.13 = 71.06 %
Avg Hgt Bank = 4.0 Ft.
Depth = 17.0
Total = 21.0 (6.0)

Surface - 4374 4390
4356 4374
18 16

17 x 17.67 = 300 Sq. Yds.

Bedrock - 4443 4459
4426 4443
17 16

17 x 17.67 = 300
Avg Area = 300

$300 \times \frac{21.0}{3} = 2100$ Cu. Yds.

$\frac{2100}{3} = 700$ Cu. Yds. per day elapsed time

$\frac{2100}{0.87} = 2414$ running

Pond Elev.
Claims dredged - And. Conc
Surface Area = 0.06 Acres.
Avg Width - 20 Ft.
Length - 15

300
9
2700

Thorr W/O

Block #9r - $\frac{9964}{9436} \frac{6464}{9964} \frac{1014}{6464}$ $\times 18 \times 19.0 \times 20.3$ ÷ 27

$\times 0.3$ $\times 18$ $\times 30$ $\times 17$

= 6,944 Cu. Yds.

Strip W/O

X2 >30 - >31 - 1/3 Remainder = 1000 Cu Yds.

>31 - >32 - 1/3 " = 4044 "

>32 - >33 - 1/3 " = 4378 "

>33 - >34 - 1/3 " = 4310 "

>34 - >35 - 1/3 " = 4437 "

Total = 18170 ✓

Dredge N° 11. May 196-
started May 3 - 9:00 AM

Dredge operated 29 days
dug 598 hrs 20 min = 24.93 days = 85.97%
lost 97 40 = 4.07 = 14.03%

Avg Ht. Bank = 4.6 Ft. (6.0)
Dept = 17.8
Total = 22.4

Surface: 3835 − 3269 = 566 ; 4480 − 3916 = 564
565 × 17.67 = 9,984 Cu Yard

Bedrock: 5555 − 5033 = 522 ; 6200 − 5678 = 522
522 × 17.67 = 9,224
2 | 19,208

Avg. Area: 9,604

$$\frac{9604}{1} \times \frac{22.4}{3} = 71.710 \text{ Cu Yards.}$$

$$\frac{71.710}{29} = 2,473 \text{ Cu. Yards per day elapsed time}$$

$$\frac{71.710}{24.93} = 2,877 \text{ " " " running time.}$$

Pond elev: 1050.3
Claims dredged Prod. Conc.
Surface area 2.06 Acres.
Avg. width 190'
Lenght 475'

9984 / 9 / 8981.6 ; 9264 / 9 / 8336 ; 9604 / 9 / 8436

## Thaw W/O

Block #97 - $\frac{\text{4693}}{\text{9x7}}$ $\frac{\text{4x33}}{\text{x-6x6}}$ $\frac{\text{7xx}}{\text{6x33}}$ $\frac{\text{9x} \times \text{159.0x} \times \text{x0.6}}{\text{x7}}$ = 11x248

x #99 - x90 $\frac{\text{x.9x} \times \text{x1.3}}{\text{x7}}$ = x1734

13398x

## Strip W/O

x'0 x3x - x36 - 7/x- Remainder = x460 Cu. Yds.

x36 - x37 - 1/x = 4x11

x37 - x38 - 3/x = 6309

x38 - x39 - 7/x = 6184

x39 - x40 - 7/x = 7188

x40 - x41 - 1/6 = 3x33

Total = 3x985

# Dredge N° 11. June 1962

Cu Yds

Dredge operated 30 days
dug 655 hrs 37 min = 27.3 day = 91.0%
lost 64 " " = 2.68 " = 8.9%
Avg Hgt of Bank = 3.6 Ft.
" Depth = 18.1 "
Total " = 21.7 "

(6.0)

| | | | | |
|---|---|---|---|---|
| Surface : | 5969 − 4842 = 1127 | 7224 − 6093 = 1131 | 1129 × 17.67 = 19,949 Sq Ft | |
| Bedrock : | 8310 − 7243 = 1067 | 9436 − 8373 = 1063 | 1065 × 17.67 = 18,819 | 2 \| 38,768 |

Avg. Area: 19,384 Sq. Ft.

$$\frac{1938 \times 21.7}{3} = 14021 \text{ Cu. Yds.}$$

$$\frac{14021}{30} = 467 \text{ Cu. Yds per day elapsed time}$$

$$\frac{14021}{27.3} = 513 \text{ " " " running "}$$

Pond Elev - 1006.6
Claims dredged - Hindson
Surface Area - 41.2 Acres
Avg Width - 320 Ft
" Length - 570 "

| | | |
|---|---|---|
| 19949 | 18819 | 19384 |
| 9 | 9 | 9 |
| 179541 | 169371 | 174456 |

Thaw W/O

Block #97 - 190 × 115 × 20.6 / 27 = 2469 Cu Yds
#96 - 270 × 200 × 20.7 / 27 = 38333
#98 - 235 × 60 × 24.7 / 27 = 12899
#99 - (100 × 170 + 340 × 225 / 27) × 21.3 = 81808
Total = 135509

Strip W/O

#37 - #36 - 1/4 Remainder = 1054 Cu Yds
#36 - #35 - 1/2 = 4638
#35 - #40 - 3/5 = 6467
#40 - #41 - 2/3 = 11776
#41 - #42 - 2/3 = 15644
#42 - #43 - 2/3 = 17314
Total = 56889

Dredge #9 11 July 1962

Dredge operated 31 days
Avg 6.9 hrs. 35 min = 28.9 days = 93.36 %
Lost 2.9 " = 2.06 " = 6.64 %
Half of Bank - 2.3 Ft.
Avg depth - 17.7 -
Total - 20.0 - (6.0)

Surface
7464 - 6223 = 1241
1411 - 0170 = 1241

1241 × 17.67 = 21,929 Sq. Yards

Bedrock
2649 - 1434 = 1215
3911 - 2693 = 1218

1217 × 17.67 = 21,504
2 | 43,433
Avg Area 21,717 Sq. Yards.

7.239
21,717 × 20.0/3 = 144,780 Cu. Yards.

144,780/31 = 4670 Cu. Yards per day elapsed time

144,780/28,94 = 5003 " " running "

Pond Elev - 1043.2
Claims dredged - Prod. Cont.
Surface area - 4.53 Acres.
Avg width - 292 Ft.
length - 670 -

19739/9 = 197361
19504/9 = 195436
19717/9 = 195453

Thaxx W/O

Block # 99 - Remainder = 87278 Cu.Yds.

- #101 - 35×20×21.3 / 27 = 1438 -
  21.3

Block #98 - 410×20×21.7 / 27 = 93768 -
  21.7

Total = 195404 -

Strip W/O

X-ing 240 - 241 - 1/2 Remainder = 1178 Cu.Yds.

241 - 242 - 1/2 - = 3911 -

242 - 243 - 1/2 - = 4328 -

243 - 244 - 4/5 - = 2208 -

244 - 245 - 4/5 - = 2306 -

Total = 54531 -

Dredge #11 Aug 196-

Dredge operated 31 days
- dug 690 hrs. 10 min = 28.76 days = 92.76 %
- lost 43 - 10 - = 2.24 - = 7.24 %
Avg Hgt Bank = 2.8 ft.
- Depth = 18.8 -
Total - = 21.6 - (6.0)

Surface - 8734 − 7476 = 1258 ✓ ; 9979 − 8734 = 1245 ✓

1251 × 17.67 = 22105 ✓ 50 lbs.

Bedrock - 1192 − 9973 = 1219 ✓ ; 2418 − 1192 = 1226 ✓

1223 × 17.67 = 21610 ✓

2 (4371 ✓) ✓

Avg Area = 21858 ✓

$\frac{21858 \times 21.6}{3}$ = 157378 Cu. Yds.

$\frac{157378}{31}$ = 5077 Cu. Yds. per day elapsed time

$\frac{157378}{28.76}$ = 5472 - - running -

Pond Elev. = 1040.7
Claims dredged = Ind. Con.
Surface Area = 4.57 Acres.
Avg Width = 210'
- Length = 885'

22105 / 9 = 198945 ✓ ; 21610 / 9 = 194490 ✓ ; 21858 / 9 = 196722 ✓

Thaw W/O

Block # 98 - 200 x 175 x 24.7 / 27 = 32019 Cu Yds.
24.7

" #101 - Remainder - 49 26 = 1756 "
21.3

Total = 15724 "

Strip W/O

X2 - 24.5 - 24.6 - Remainder = 2729 Cu Yds
24.6 - 24.7 - " = 2818 "
24.7 - 24.8 - 1/2 " = 9672 "
24.8 - 24.9 - 1/2 " = 7905 "
24.9 - 25.0 - 1/4 " = 3569 "

Total - 6823

Dr. #11 Sept. 1962

Dredge operated 30 days
- dug 661 hrs. 45 min = 27.57 days = 91.91 %
- lost 58 - 15 - = 2.43 - = 8.09 %
Avg Ht Bank = 3.3 Ft
- Depth = 18.2 -
Total - = 21.5 - (6.0)

Surface - 1020 / 9588 / 1437 — 2450 / 1020 / 1430 ✓

1431 x 17.67 = 25286 Cu.Yds. ✓

Bedrock - 3784 / 2404 / 1378 — 1452 / 378 / 1363 — 6484 / 1440 / 1339 — 7840 / 6484 / 1356 ✓

1360 x 1767 = 24031 ✓ -
25 / 49317
Avg Area = 2469 ✓ -

2469 x 21.5 / 3 = 17673 Cu.Yds. ✓

17673 / 30 = 891 Cu.Yds. per day elapsed time ✓

17673 / 27.57 = 6410 ✓ - - running -

Pond Level - 1037.2
Claims dredged - Prod. Corp.
Surface Area - 5.22 Acres ✓
Avg width - 230 Ft.
- Length - 1050 -

25286 / 9 = 227574 ✓
24031 / 9 = 216279 ✓
2469 / 9 = 22431 ✓

Thaw W/O

Block W^L 101 - Remainder = 49226 Cu Yds

" " 100 - 3497 / 3147 / 347 ; 3847 / 3497 / 350 ; 349 × 17.67 × 21.5 / 3 = 4U323 "

" " 103 - 3990 / 3647 / 343 ; U340 / 3990 / 350 ; 347 × 17.67 × 35.0 / 3 = 71505 "

" " 104 - 4563 / 4527 / 36 ; 4601 / 4563 / 38 ; 37 × 17.67 × 35.0 / 3 = 7622 "

Total = 17676 "

Strip W/O

X2247-248 - Remainder = 9672 Cu Yds.

248-249 " = 7906 "

249-250 3/4" " = 8567 "

250-251 1/4" " = 74 "

Total = 26887 "

Dredge № 11 October 1962

Dredge operated 31 days
- dug 683 hrs 30 min = 28.48 days = 91.87 %
- 1057 60 - 30 - = 2.52 - = 8.13 %
Avg Ht/Bank = 8.5 Ft
- Depth = 20.1 -
Total - = 28.5 -

Surface

6416 - 5412 = 1004 / 7454 - 6454 = 1000 /

1002 x 17.67 = 17,705 Sq. Yards.

Bedrock

1538 - 568 = 970 / 2593 - 1617 = 976 /

973 x 17.67 = 17,193

2 / 34,898 Sq. Yds.

Avg. Area = 17,449 Sq. Yards

$\frac{17,449 \times 28.5}{3} = 165,766$ Cu. Yards

$\frac{165,766}{31} = 5347$ Cu. Yds per day Elapsed time.

$\frac{165,766}{28.48} = 5820$ " " " " running "

Pond Elev —
Claims dredged - Hand Conc
Surface Area 3.66 Acres
Avg Width ??? Ft.
Length 675 -

17705 / 9 = 1967 17193 / 9 = 1911 17449 / 9 = 1939

## Thaw W/O

Block #101 - 200×100×33.8/27 = 25037 Cu. Yds

- #100 21.1 - 210×70×21.1/27 = 13377 ✓

- #102 21.0 - 210×270×21.0/27 = 35933 ✓

Total = 74347 ✓

## Strip W/O

1/2 249-270 - 1/2 Remainder = 1070 Cu Yds.

270-277 - 3/5 - = 4154 -

271-272 - 1/2 - = 4447 ✓

Total = 9671.

Dredge No-11 November 1962
Shut down for season Nov 26 - 8:00 AM

Dredge operated 25 days
" dug 539 hrs 15 min = 22.47 days = 89.87 %
" lost 60 " 45 " = 2.53 " = 10.13 %
Avg Net Depth = 4.3 ft.
" Depth = 21.0 "
Total " = 25.3 "

(25.2)

Surface - 2763 / 2246 / 497 ; 3227 / 2743 / 484

496 x 17.67 = 8785 Cu. Yds.

Bedrock - 3715 / 3219 / 496 ; 4200 / 3711 / 489

493 x 17.67 = 8719 "
" 17511 "

Avg Area = 8756 "

8756 x 25.3 / 3 = 73842 Cu. Yds

73842 / 21 = 3516 Cu. Yds. per day elapsed time

73842 / 22.47 = 3286 " " running "

Pond Elev
Claims dredged - Mod. Conc
Surface area = 1.81 Acres
Avg width =
" Length =

8785 / 9 = 79038
8719 / 9 = 78561
8756 / 9 = 78804

Thaw W/O

Block № 107 - 2000 Cu. Yds.

Strip W/O

№ 2 Aug. 20 - Remainder = 1071 Cu. Yds

Dredge No 11. April 1963

Started April 29 - 2:00pm

Dredge operated 2 days
" dug 35 hrs - 22 min = 1.50 days = 74.83 %
" lost 12 - 0 = 0.50 days = 25.17 %
Avg ht of Bank - 0.0 Ft.
" Depth - 20.2 - (6.0)
Total " - 20.2 -

Area = 2634 Sq. Ft = 293 Sq. Yds. assumed

Total Cu. Yds. assumed = 2000 To be deducted from May Yds.

2000 / 2 = 1000 Cu. Yds per day elapsed Time

2000 / 1.50 = 1333 " " running "

Claims dredged. Ford. Conc.

## Thaw W/O

Block #102 - 80 × 10 × 21.0 / 27 + 10 × 160 × 21.0 / 27 = 7186 Cu. Yds
21.0

Block #103 - 15 × 60 × 33.8 / 27 = 1648 "
33.8

Total 8834

## Strip W/O

X3 0-1 - Remainder = 6233 Cu Yds

1-2 - " = 4446 "

2-3 - " = 7807 "

3-4 - " = 7504 "

total = 25990

Deduct 2000 Cu Yds (Apr. assumed yds.) from May yds.

Dredge #11 May 1963

Dredge operated 31 days
- Dug 693 hrs. or min. = 28.88 days = 93.16%
- lost 50 - " - = 2.12 - = 6.84%
Avg Hgt Bank = 1.4 Ft.
- Depth = 19.4 -
Total - = 20.8 -

(6.0)

Surface - 9088 − 8362 = 726 ; 9824 − 9088 = 736 ; 9853 − 9824 = 729 ; 736 × 17.67 = 13004 − 293 = 12711

Bedrock - 1260 − 0539 = 721 ; 1980 − 1260 = 720 ; 721 × 17.67 = 12740 − 293 = 12447

2801 × 6.93 = 88717 Cu Yds − 2000 = 86717 Apr + May

Avg Area = (12709 × 20.8) / 3 = 86687 Cu Yds. + 12802 − 2000 = 84687

86717 / 31 = 2797 = 2797 Cu. Yds. per day elapsed time

86717 / 28.88 = 3002 = 2999 - running

Pond Elev - 1036.4
Claims dredged - And. Conc.
Surface area - 2.59 Acres
Avg width - 210 Ft.
/ Length - 780

12711 / 9 = 113139 ; 12447 / 9 = 112023 ; 12709 / 9 = 112881

## Thaw W/O

Block #107 - Remainder = 7709 Cu. Yds.
33.8

- #106 - 440 x 20 x 35.1 / 27 = 10400 "
35.1

- #107 = 220 x 80 x 33.9 / 27 = 2511 "
33.9

Total = 11120 "

## Strip W/O

Nil

Dredge N-11 June 1963

Dredge operated 30 days
- Dug 672 hrs 20 min = 28.01 days = 93.38 %
- Lost 47 - 40 - = 1.99 - = 6.62 %
Avg Dpt Bank = 8.2 Ft. (3.1) Time in F.G. = 9.63 days
- Depth = 24.2 - = 32.08 % Elapsed time
Total - = 33.0 - = 34.36 % Running -

Surface - 8346 / 7669 / 677 — 9036 / 8346 / 690 — 9726 / 9036 / 689
690 x 17.67 = 12192 Sq. Yds

Bedrock - 0394 / 9742 / 648 — 1056 / 0394 / 662 — 1716 / 1056 / 659
660 x 17.67 = 1166 2 -
= 38 54

Avg Area = 11927 -

Cut overall depth 2'

$$11927 \times \frac{10.3}{3} = 12848 \text{ Cu. Yds.}$$

$$\frac{12848}{30} = 4094 \text{ Cu Yds. per day Elapsed time}$$

$$\frac{12848}{28.01} = 4386 \text{ - - running -}$$

Pond Flex - 1038.2
Claims dredged - And. Conc.
Surface area - 2.52 Acres
Avg width - 200 Ft.
- Length - 460 -

12192 / 9 = 1099 28
11662 / 9 = 1046 8
11927 / 9 = 1073 43

Thaw W/O

Block #107 - 270
33.9 290
330
3|870
290 × 3|0 × 33.9
27

- #109 - 70 × 290 × 31.5
31.5 27

#110 - 19330

= 127439 Cu. Yds.

= 16917

Total = 144356.

Strip W/O

#2 W2 - W3 - Remainder

= 2414 Cu. Yds.

Dredge No. 11 July 1963

Dredge operated 31 days
- dug 695 hrs. 20 min = 28.97 days = 93.46 %
- lost 48 - 40 - = 2.03 - = 6.54 %

Ht. of Bank cut 1 Ft. Avg Ht Bank = 45 Ft. (3.0)
- Depth = 27 - 1
- Total - = 30.0 -

Time in Ft. = 12.03 days
= 38.82 %

Surface - 636 / 9.61 = 66.2 / 9.0 = 748 / 66.2

9.3 × 1767 = 16309 Sq. Yds.

Bedrock - 8387 / 7480 / 907 = 9.93 / 8387 / 906

907 × 17.67 = 16027 / 3.336

Avg Area = 16168

16168 × 30.0 / 3 = 161680 Cu. Yds.

161680 / 31 = 5215 Cu. Yds. per day elapsed time

161680 / 28.97 = 5581 - - running -

Pond Elev 1041.6
Claims dredged - Pond Conc.
Surface Area - 9.37 Acres
Avg width - 400 Ft.
- Length - 400 Ft.

16309 / 9 / 14678

16027 / 9 / 14424.3

16168 / 9 / 14551.2

## Thaw W/O

Block #109 - $\frac{28' \times 110 \times 31.5'}{27}$ = 36'7' Cu Yds.

31.5'

' #111 - $\frac{27' \times 120 \times 30.0}{27}$ = 36667

73'42

- #111 - $\frac{5'190}{5'124}$ $\frac{5'62'}{5'190}$ $69 \times 176' \times \frac{10.0}{3}$ = 17'190

66 7' Total = 8'43'

## Strip W/O

1'1'

Dredge № 11 August 1963

Dredge operated 31 days
- Dug 690 hrs. 45 min = 28.78 days = 92.84 %
- lost 23 - 15 - = 2.22 - = 7.16 %
Avg Hot Bank = 2.7 ft.
- Depth = 27.1 - (3.1) Time in FG = 6.29 days
Total - = 29.8 - = 20.3 %

Surface - 9127 / 0844 / 8.26 — 6739 / 9127 / 8.27 — 8.8 × 17.67 = 14631 Cu. Yds

Bedrock - 7544 / 6738 / 786 — 8308 / 7524 / 784 — 785 × 1767 = 13871 / 128502

Avg Area = 14251

$\frac{14251 \times 29.8}{3} = 141512$ Cu. Yds (9.93)

$\frac{141512}{31}$ = 4565 Cu. Yds. per day elapsed time

$\frac{141512}{28.78}$ = 4917 - - running -

Pond Elev — 1037.7
Claims dredged - Ind. Conc
Surface area — 3.02 Acres
Avg width — 328 ft
- Length — 420

$\frac{14631}{9}$ = 131679 — $\frac{13871}{9}$ = 124839 — $\frac{14251}{9}$ = 128259

Thaw W/O

Block #111 $\frac{32.8}{}$ - $\frac{350 \times 100 \times 32.8}{27}$ = 3148 Cu. Yds.

" #112 $\frac{34.7}{}$ - $\frac{310 \times 300 \times 34.7}{27}$ = 1329 32 -

Total = 18670 -

Strip W/O

N.I

# Dredge No. 11. – September 1963

Dredge operated 30 days
– Avg 47 hrs 20 min = 28.01 days = 93.38 %
– lost 47 – 20 – = 1.99 – = 6.62 %
Avg Hyt Bank = 5.2 Ft.
– Depth = 27.4 – (3.0)
Total – = 32.6 –

Time in Ft. = 7.33 days

Surface – 9618 − 8814 = 804 / 0431 − 9618 = 813 /

809 × 1767 = 142 95 Cu Yds.

Bedrock – 1187 − 0420 = 767 / 1957 − 1187 = 770 /

769 × 17.67 = 13588 –

2 | 27883 /

Avg Area = 13942 / –

10.87
13942 × 32.6/3 = 151550 Cu. Yds.

151550 / 30 = 5052 Cu. Yds. per day elapsed time

151550 / 28.01 = 5411 – – running –

Pond Elev. – 1079.5
Claims dredged – Hnd. Conc.
Surface area – 2.95 Acres
Avg Width – 310 Ft.
– Length – 420 –

14295 / 9 = 1286 55 /
13588 / 9 = 12232
13942 / 9 = 12548

## Thaw W/O

Block #112 $\frac{34.7}{}$ = $\frac{330 \times 70 \times 34.7}{27}$ = 29687 Cu Yds

Block #113 $\frac{35.0}{}$ = $\frac{330 \times 70 \times 35.0}{27}$ = 29388

Total = 59075

Natural Thaw = $\frac{30 \times 29 \times 32.7}{27}$ = 91073

## Strip W/O

N.I.

Dredge N-11 October 1963

Dredge operated 31 days
- Dug 683 hrs. 15 min = 28.47 days = 91.83 %
- Lost 60 - 45 - = 2.53 - = 8.17 %
Avg Depth Bank = 5.0 Ft.
- Depth = 24.9 (4.0) F.G. - Nil
Total - = 29.9

Surface — 6728 / 5560 / 968 — 7546 / 6575 / 971 — 970 x 17.67 = 17140 Sq. Yds.

Bedrock — 2160 / 1240 / 920 — 3110 / 2186 / 924 — 922 x 17.67 = 16292 — [33432]

Avg Area = 16716

5572
16716 x 29.9 / 3 = 166603 Cu Yds.

166603 / 31 = 5374 Cu. Yds. per day elapsed time

166603 / 28.47 = 5852 - - running -

Pond Elev — 1021.9
Claims dredged - Ind. Conc.
Surface area — 3.84 Acres.
Avg width — 325 Ft.
- Length — 390

17640 / 9 = 15960
16292 / 9 = 14668
16716 / 9 = 150444

Thaw W/O.

Nil - All Natural Thaw.

Natural Thaw - 3'-7"

8983 − 8810 = 173

9154 − 8983 = 171

1013

1013 × 17.67 = 3039 Cu. Yds.

3039 × 3'-7" / 3 = 3372 Cu. Yds.

Strip W/O

Nil

Dredge No. 11 — November 1963

Shutdown Nov. 16 - 8:00 A.M.

Dredge operated 15 days.

- Dug 336 hrs. 55 min = 14.0 days - 93.4%
- Lost 3 - 3.5 - = 0.98 - - 6.6%
- Avg Hol Bank = 4.4 ft.
- Depth = 13.5 - (4.0) = 9.5 - Adj
- Total - = 27.9

Surface

| | |
|---|---|
| 3738 | 4608 |
| - 3328 | - 4202 |
| 410 | 406 |

408 x 17.67 = 7209 Sq. Yds.

Bedrock

| | |
|---|---|
| 4427 | 4850 |
| 4041 | 4459 |
| 386 | 391 |

389 x 17.67 = 6873

1408

Avg Area = 7041

9.3

7041 x 27.9/3 = 65481 Cu. Yds.

65481 / 15 = 4365 Cu Yds. per day elapsed time

65481 / 14.0 = 4677 - - running -

Pond Elev — 1022.0
Claims dredged - And. Conc
Surface area — 1.49 Acres
Avg Width — 390 Ft
- Length — 175 -

| | | |
|---|---|---|
| 7209 | 6873 | 7041 |
| 9 | 9 | 9 |
| 64881 | 61857 | 63369 |

Thaw W/O

Nat Thaw only -

Strip W/O

Nil

Nat Thaw - $\frac{\sqrt{777}}{\sqrt{700}} \frac{77}{} \quad \frac{\sqrt{853}}{\sqrt{777}} \frac{}{76} \quad 77 \times \frac{5.89}{3} \times 19.9 = 13\sqrt{5} = Cu\ Yds.$

Dredge #11 May 1964

Started bailing ice May 2 - 9:00 AM
- dredging May 4 - 8:00 AM

Dredge operated 28 days - 28 days for depth
- dug 580 hrs. 45 min = 24.20 days = 86.42%
- lost 91 - 15 - = 3.80 - = 13.57%
Avg Mat Bank = 2.2 Ft.
Depth = 24.6 - (3.9) F.G. 24 hrs = 10.2 days
Total - = 26.8 -

Surface — 841 6330 / 329 841 / 16 19 — 18 x 17.67 = 91 3 Sq. Yds.

Bedrock — 6808 7307 / 6312 6808 / 496 499 — 498 x 17.67 = 8799 / 17952

Avg Area = 8976

2992
8976 x 26.8 / 3 = 80186 Cu. Yds.

80186 / 28 = 2864 Cu. Yds. per day elapsed time

80186 / 24.20 = 3313 - - running -

Pond Flow — 1021.8
Claims dredged — And. Conc.
Surface Area — 1.89 Acres.
Avg. width — 280 Ft.
- Length — 314 -

9153 8799 8976
9 9 9
82377 79191 80784

## Thaw W/o

Block № 116 · 110 × 130 × 31.2 / 27 = 16520 Cu Yds.
31.2

- № 118 · 160 × 170 × 31.8 / 27 = 36029 -
31.8

Total = 42553 -

## Natural Thaw

880 / 800 = 80 ; 957 / 880 = 77 ; 79 × 17.67 × 99.9 / 3 = 13904 Cu. Yds
.89

## Strip W/o

1,1

Dredge #11 June 1964

Dredge operated 30 days
- Dug 661 hrs. or min - 27.5 days = 91.8%
- Lost 58 - 2.4 - = 8.18%
Avg Dept Bank = 4.3 Ft.
- Depth = 24.1 - (3.3) 4.9% days in F-G
Total - = 28.4 -

Surface - 0625 / 9662 / 960 — 1587 / 0625 / 962 — 963 x 17.67 = 17016 Sq. Yds.

Bedrock - 2467 / 1575 / 892 — 3358 / 2467 / 891 — 892 x 17.67 = 15762 -
2 | 32778
Avg Area = 16389 -

5463
16389 x 28.4 / 3 = 155149 Cu. Yds

155149 / 30 = 5172 Cu. Yds. per day elapsed time

155149 / 27.5 = 5632 - - running -

Pond Elev. - 1014.8
Claims dredged - Hnd. Canc.
Surface Area - 3.51 Acres
Avg width - 265 Ft
- length - 560

17016 / 9 = 153144
15762 / 9 = 141858
16389 / 9 = 147501

Thaw W/O

Block # 118 - 31.8

2288 / 1860 / 428 — 2772 / 2288 / 484 — 3270 / 2772 / 478

481 × 17.67 × 31.8 / 3 = 90089 Cu Yds.

- # 116 - 31.2

3604 / 3470 / 134 — 3737 / 3604 / 133

134 × 17.67 × 31.2 / 3 = 24627 -

Total 114716 -

Natural Thaw - 32.0

3103 / 2934 / 169 — 3276 / 3103 / 173

171 × 17.67 × 32.0 / 3 = 32320 -

Strip W/O - N.I

Dredge № 11 July 1964

Dredge operated 31 days
Avg 670 hrs 30 min = 27.94 days = 90.13 %
Lost 73 - = 3.06 - = 9.87 %
Avg Hgt Bank = 6.5 Ft.
- Depth = 26.8 - (2.9) EG = 5.20 days
Total - = 33.3 -

Surface - 5150 / 4313 / 837 — 6000 / 5150 / 850 — 6850 / 6000 / 850
850 × 17.67 = 15020 Cu. Yds.

Bedrock - 7632 / 6848 / 784 — 8430 / 7632 / 798 — 9220 / 8430 / 790
787 × 17.67 = 13906 -
- 8976
Avg Area = 14463 -

14463 × 33.3 / 3 = 160539 Cu. Yds.

160539 / 31 = 5179 Cu. Yds. per day elapsed time

160539 / 27.94 = 5746 - - running -

Pond Elev - 1072.0
Claims dredged - Hnd. Conc.
Surface area - 3.10 Acres
Avg width - 275 Ft.
- Length - 500 -

15020 / 9 = 135180
13906 / 9 = 125154
14463 / 9 = 130167

Thaw W/o

Block # 116 - $\frac{4714}{4405} \quad \frac{5016}{4714}$ $306 \times 17.67 \times \frac{10.4}{3} = 6233$ Cu Yds.
$31.2 \qquad 309 \qquad 302$

- # 114 - $\frac{155 \times 160 \times 32.6}{27}$ = $= 27819$ -
32.6

Total = 8605 -

Not Thaw - $\frac{411 \times 170 \times 32.7}{27}$ = 7392 CYS

Dredge N° 11 August 1964.

Dredge operated 31 days
Aug 698 hrs 30 min = 29.10 days = 93.88 %
Lost 45 - 30 - = 1.90 - = 6.12 %
Avg Hgt Bank = 8.6 Ft.
Depth = 24.2 - (2.1) Time in Cut = 6.87 days
Total - = 32.8 -

Surface - 6069 − 5168 = 901 × 17.67 = 15921 Sq. Yds.
5168 − 4267 = 901

Bedrock - 7893 − 6988 = 904 × 17.67 = 15974 -
6988 − 6085 = 903
15974 + 15921 = 31895

Avg Area = 15948 -

15948 × 32.8 / 3 = 174365 Cu Yds.

174365 / 31 = 5624 Cu. Yds. per day elapsed time

174365 / 29.10 = 5992 - - running -

Pond Elev. - 1033.6
Claims dredged - Hnd. Conc
Surface area - 3.29 Acres
Avg. width cut - 315 Ft.
Length - - 430 -

15921 / 9 = 143289
15974 / 9 = 143766
15948 / 9 = 143532

Thaw Kl/o

Block # 114 - $\frac{4907}{3-6}$ $\frac{4479}{423}$ $\frac{4907}{421}$ $\frac{.89}{4-1-1 \times 17.67 \times 3-.6}{3}$ = 81011 Cu Yds.

Block # 116 - $\frac{180 \times 120 \times 31.-}{27}$ = $\frac{-4960}{}$

Total 10-971 -

Not Thaw

$\frac{-690}{-4470}$ $\frac{-9.9}{-690}$ $\frac{79}{-37 \times 17.67 \times 3-.7}{3}$ = 4-66- -

# Dredge № 11 — September 1964

Dredge operated 30 days
- dug 667 hrs 55 min = 27.83 days = 92.77%
- lost 5 5 0 - = 2.17 - = 7.23%

Avg Hgt Bank = 8.3 Ft.
- Depth = 22.8 -
Total - = 31.1 -

(3.4) Time in F.G = 2.91 days

Surface — 1009 / 0186 / 849 ; 1855 / 1009 / 846 ; 269 / 1874 / 838 ; 3534 / 269 / 842

846 × 17.67 = 14913 Sq Yds

Bedrock — 4394 / 3545 / 849 ; 5239 / 4394 / 845

847 × 17.67 = 14966
→ 29879

Avg Area = 14939 -

10.37
14939 × 3.14 / 3 = 154917 Cu. Yds.

154917 / 30 = 5164 Cu. Yds. per day elapsed time

154917 / 27.83 = 5567 - - running -

Sand Elev
Claims dredged - And. Conc.
Surface area - 3.07 Acres
Avg width - 175 Ft
- Length - 800 -

14913 × 9 = 134217

14966 × 9 = 134694

14939 × 9 = 134451

## Thaw W/O

Block #116 - Remainder = 4891 Cu. Yds.

- #117 - $\frac{315 \times 140 \times 30.1}{27}$ = 24481 -

- #118 - $\frac{160 \times 140 \times 31.8}{27}$ = 26324 -

- #119 - $\frac{170 \times 80 \times 29.8}{27}$ = 13244

Total = 44061

## Natural Thaw

$\frac{4490}{4227} \quad \frac{4728}{4490}$

63 68

$\frac{26 \times 17.67 \times 30.0}{2}$ = 5049 Cu. Yds.

Dredge No 11 October 1954

Dredge operated 31 days
- dug 67 hrs 20 min = 28.85 days = 93.06%
- lost 1 - 40 - = 2.15 - = 6.94%
Avg Hgt Bank = 3.9 ft
- Depth = 23.3 - (3.5) Time in F.G. - 173 hrs 30 min
Total - = 29.2 -

Surface - 648 / 4132 / 836 — 7090 / 648 / 842 — 839 x 17.67 = 14825 ft²

Bedrock - 798 / 7086 / 842 — 877 / 798 / 844 — 843 x 17.67 = 14895 / 17970

Avg Area = 14860

14860 x 29.2 / 3 = 144288 Cu. Yds. (9.73)

144288 / 31 = 4664 Cu. Yds. per day elapsed time

144288 / 28.85 = 5012 / / running -

Pond Fills
Claims dredged - Hnd. Conc.
Surface area = 3.06 Acres
Avg width - 300 Ft
- Length - 480 -

14825 / 9 / 1334 25 — 14895 / 9 / 1340 55 — 14860 / 9 / 133740

Thaw W/O

Block 119 — 1477 1730 / 1208 1477 / 269.8 / 64 258

87
261 × 17.67 × 269.8 / 3 = 45762.6

Natural Thaw

1757 2006 / 1471 1757 / 286 249

96
288 × 17.67 × 320 / 3 = 54772.8

Dredge No. 11 November 1964

Shutdown Nov. 26 - 8:00 A.M.

Dredge operated 25 days

- dug 241 hrs. 20 min = 22.56 days = 90.22%
- lost 58 - 40 - = 2.44 - = 9.78%

Avg Max Bank = 33 ft.

- Depth = 26.1 - (3.4) F.G. or hrs. 30 min

Total - = 29.4 -

Surface - 0257 0890 / 9620 0257 / 637 633

635 x 17.67 = 11220 Sq. Yds.

Bedrock - 1519 2134 / 0900 1519 / 619 615

617 x 17.67 = 10902 - / 22122 -

Avg Area = 11061 -

3687
11061 x 29.4 / 3 = 108397 Cu. Yds.

108397 / 25 = 4336 Cu. Yds. per day elapsed time

108397 / 22.56 = 4805 - - running -

Pond Elev. ——

Claims dredged - And. Conc.

Surface area - 211 Acres

Avg width - 165 Ft.

- Length - 650

11220 / 9 = 100980

10902 / 9 = 99118

11061 / 9 = 99549

Thaw W/O

Block #119 - Remainder = 60700 Cu. Yds

" #117 - $\frac{\pi r^2 \times 160 \times 30.1}{27}$ = 40133 -

Total = 100833 -

Strip W/O

Nil

Dredge No 11 May 1965

Started May 1 - 10:00 AM.

Dredge operated 31 days - 30 for depth
- dug 601 hrs. 17 min = 25.07 days = 80.8 %
- lost 144 hrs. 43 min = 5.93 days = 19.19 %
Avg. depth Bank = 5.3 ft.
- Depth = 23.4 - (3.7) FG = 22 hrs. 55 min
Total - = 28.7 -

Surface - 4941 / 4383 / 558 / 5700 / 4941 / 759 / 759 x 17.67 = 9877 Sq. Yds.

Bedrock - 6039 / 5507 / 532 / 6376 / 6039 / 337 / 532 x 17.67 = 9403 / 19330 / Avg Area = 9665

9.57
9665 x 28.7 / 3 = 92494 Cu. Yds

92494 / 31 = 2984 Cu Yds per day elapsed time

92494 / 25.05 = 3692 - - running -

Pond Elev —
Claims dredged - And. Conc.
Surface area - 2.04 Acres
Avg width - 190 Ft.
- Length - 531

9877 / 9 / 88893 / 9403 / 9 / 85077 / 9665 / 9 / 86985

Thaw W/O

Block # 117 - Remainder - 4794 Cu Yds

" # 118 - " = 1914 "

Total = 106708 -

Strip W/O

N.I

Dredge No. 11 June 1965

Dredge operated 30 days
- dug 665 hrs. 50 min = 27.74 days = 92.4%
- not 54 - 10 - = 2.26 - = 7.5%
Avg. Ht of Bank = 9.6 Ft.
- Depth = 22.5 - (3.6) T.G. = 193 hrs.
Total - = 32.1 -

Surface - 4728 / 4077 / 651 — 4387 / 4728 / 659 — 659 x 17.67 = 11574 Cu. Yds.

Bedrock - 6046 / 5396 / 650 — 6704 / 6046 / 658 — 658 x 17.67 = 11626 - 52 = 23130

Avg Area = 11565

$\frac{11565 \times 10.7}{32.1} = 123746$ Cu. Yds.

$\frac{123746}{30} = 4125$ Cu. Yds. per day elapsed time

$\frac{123746}{27.74} = 4461$ - - running -

Claims dredged - And. Conc.
Surface area - 2.39 Acres.
Avg width - 225 Ft.
- Length - 470 -

11574 / 9 = 104166 / 11626 / 9 = 104004 / 11565 / 9 = 104085

Thaw W/O

Blocks #113 - 290 x 1447 x 3.70 = 1553709 CYs

Remainder at Thaw (79679 CYs).

Minus 11947

= 67732

Dredge #11 July 1960

Dredge operated 31 days
- Avg 698 hrs. 50 min = 29.1 days = 93.93%
- Lost 4½ - 10 " = 1.88 - = 6.07%
Avg Wet Bank - 10.6 Ft.
- Depth - 24.1 - (3.4) F.G. 167 Hrs.
Total - = 34.7

Surface - 1340 0630 710 / 7030 1340 690 / 7240 7030 710 / 710 x 17.67 = 12542 Cu Yds

Bedrock - 3496 2782 714 / 4204 3496 708 / 711 x 17.67 = 12563 - 1108 / Avg Area = 12454

12454 x 34.7/3 = 144220 Cu. Yds.

144220/31 = 4685 Cu. Yds. per day elapsed time

144220/29.1 = 4988 - running -

Claims dredged - Kod. Cont.
Surface Area - 2.56 Acres
Avg Width - 230 Ft
- Length - 440

12545/9 = 11290 / 12563/9 = 11306 / 12554/9 = 11298

Thaws W/o

| | | |
|---|---|---|
| Block # 113 | - Remainder | = 1398 Cu Yds. |
| - # 112 | - " | = 44749 - |
| - # 111 | - 200 x 170 x 3.8 / 27 | = 12149 - |
| - # 110 | - 600 x 230 x 33.6 / 27 | = 85866 - |
| - # 114 | - Remainder | = 3806 - - |
| | | Total = 186227 - |

Dredge No: 11 August 1965

Dredge operated 31 days
Avg 696 Hrs 10 min = 29.00 days = 93.55 %
Lost 47 - 50 - = 2.00 - = 6.45 %
Avg Hgt Bank - 9.9 Ft.
Depth - 23.8 - (+.7) F.G. = 1544 Hrs.
Total - 33.7 -

Surface - 1170/6400/770 1945/1170/775 773 x 17.67 = 13659 Cu. Yds.

Bedrock - 2737/1910/777 3510/2737/773 4277/3510/767 770 x 17.67 = 13606

2726

Avg Area = 13633

11.23
13633 x 33.7/3 = 153099 Cu. Yds.

153099/31 = 4939 Cu. Yds. per day elapsed time

153099/29 = 5279 - - running -

Claims dredged - Hud. Conc.
Surface area - 7.84 Acres
Avg width - 210 Ft.
Length - 1580 -

13659/9 = 12931 13606/9 = 12594 13633/9 = 12697

Thaw W/O

Block #111 - Remainder = 12673 Cu Yds

- #110 - " = 2784 -

- #109 - " = 1197 -

- #107 - " = 487 -

- #108 - Remainder - $\frac{200 \times 150 \times 32}{27}$ (3611) = 1522 -

Total 20788 -

Block #118 (Passed up 1964) 9961 -

21846

Dredge N°11 September 1942

Dredge operated 30 days
- Avg 671 hrs. 10 mins = 27.97 days = 93.27 %
- Lost 48 - 50 - = 2.03 - = 6.78 %
Avg Hgt Bank - 9.0 Ft.
- Depth - 20.4 - (2.1) F.G. 21 Hrs. 30 mins
Total - - 29.4 -

Surface - 1200 1892 693 x 17.67 = 12245 Sq. Yds.
0506 1200
694 692

Bedrock - 1883 2765 686 x 17.67 = 12121
1893 1883 24366
690 682

Avg Area = 12183

$$12183 \times \frac{9.8}{3} = 119393 \text{ Cu. Yds.}$$

$$\frac{119393}{30} = 3980 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{119393}{27.97} = 4269 \text{ - - running -}$$

Claims dredged - Ard. Conc
Surface area - 2.83 Acres
Avg width - 200 Ft.
- Length - 550 -

12245 12121 12183
9 9 9
110205 109089 109647

Thaw Kit O

Block # 106 - $\frac{135' \times 110 \times 35.1'}{27}$ = 1930 Cu. Yds

35.1'

- # 108 - Remainder = $\frac{36111}{37746}$

Total =

160
140
120
3 430
140

1886
1511
36111

Dredge No. 11 October 1967

Dredge operated 31 days
- Avg 569 hrs. 20 min = 23.73 days = 76.57%
- Lost 174 - 30 - = 7.27 - = 23.47 %
Height of Bank = 12.7 Ft.
Depth - 19.0 - (0.7) F.G. 331 hrs. 30 min
Total depth = 32.0 Ft.

Surface - 0566 0839
0590 0566
576 573

575 x 17.67 = 4859 Sq. Yds

Bedrock - 1140 1440 1698
0850 1140 1440
290 273 283

288 x 17.67 = 5089
9948

Avg Area = 4974

1658
4974 x 32.0 / 3 = 53387 Cu. Yds.

53387 / 31 = 1720 Cu. Yds. per day elapsed time

53387 / 3073 = 2250 - running -

Claims dredged - Hnd. Conc.
Surface area - 1.00 Acres
Avg width - 140 Ft.
- Length - 590 -

4859 / 9 = 43731
5089 / 9 = 45801
4974 / 7 = 44766

Dr. #11

November 1961-
Shutdown Nov 4:- 8:00 AM

Estimated yage = 5800 Cu Yds.

Thaw W/O

Block #106. Remainder = 68926 Cu Yds.

#104 - 270 x 180 x 30 / 27 = 18333 -

Total = 127259 -

Strip W/O

Nil

710
100
30

Dredge N° 11 May 1966
Started boiling ice May 12
- dredging May 3 - 8:00 AM

Dredge operated 29 days
- Avg Cu Yds. per hr. = 26.74 days = 92.21%
- Lost Time - " - = 2.26 - = 7.79%
Avg Max Bank: 8.6 Ft.
- Depth = 24.2 - (2.9) F.G. 111 Hrs.
Total - = 32.8 -

Surface - 3315 / 6805 = 635 / 3959 / 3315 = 644 / 640 x 17.67 = 11307 Sq. Yds

Bedrock - 4562 / 3944 = 618 / 5126 / 4562 = 564 / 616 x 17.67 = 10885 / 22192

Avg Area = 11096

11096 x 10.93 / 32.8 / 3 = 121279 Cu Yds

121279 / 29 = 4182 Cu Yds. per day elapsed time

121279 / 26.74 = 4535 - - running -

Claims dredged. Mod. Conc.
Surface Area = 2.33 Acres
Avg width = 175 Ft.
- Length = 600

11307 / 9 = 101763
10885 / 9 = 97965
11096 / 9 = 99864

## Thaw W/o

| | | |
|---|---|---|
| Block #104 - Remainder | | = 7990 Cu Yds |
| " #103 - " | | = 14447 " |
| " #98 - " | | = 6760 " |
| " #96 - $\frac{180 \times 60 \times 70.7}{27}$ | | = 880 " |
| | | Total = 17087 " |

## Strip. W/o

| | | |
|---|---|---|
| XD - 244 - 247 - Remainder | = | 2767 Cu Yds |
| 243 - 244 - " | = | 2511 " |
| 242 - 243 - " | = | 4378 " |
| 241 - 242 - 1/2 " | = | 1955 " |
| | Total - | 17559 " |

Dredge № 11 June 1966

Dredge operated 30 days
- dug 668 hrs 45 min = 27.86 days = 92.88 %
- lost 51 - 15 - = 2.14 - = 7.12 %
Avg Hgt Bank - 8.1 Ft.
- Depth - 23.2 - (3.6) Time in F. C. 27 hrs. 30 min
Total - 31.3

Surface - 8670 9442 / 7790 8670 / 880 772 — 876 x 17.67 = 15479 Cu. Yds.

Bedrock - 0387 1236 / 9540 0387 / 847 849 — 848 x 17.67 = 14982 / 30461

Avg Area = 15230

10.43
15230 x 31.3 / 3 = 158849 Cu Yds.

158849 / 30 = 5294 Cu. Yds. per day elapsed time

158849 / 27.86 = 5701 - - running -

Claims dredged - Hnd. Conc.
Surface area - 3.20 Acres
Avg Width - 190 Ft.
- Length - 730

15479 / 9 = 139311
14982 / 9 = 134838
15230 / 9 = 137070

## Thaw W/o

| | | | |
|---|---|---|---|
| Block #96. | Remainder | = 68.38 | Cu.Yds. |
| - #97 | - | = 44.03 | - |
| - #95 | - | = 62.37 | - |
| - #94 / 20.6 | 530 × 175 / 27 × 20.6 | = 8931 | - |
| | | Total = 184.09 | |

## Strip W/o

| | | | |
|---|---|---|---|
| M. 241-242 - | Remainder | = 19.6 | Cu.Yds. |
| - 240-241 - | - | = 47.2 | - |
| - 239-240 - | - | = 43.09 | - |
| 238-239 - | - | = 46.37 | - |
| 237-238 - | - | = 31.54 | - |
| 236-237 - | - | = 42.11 | - |
| 235-236 - | - | = 83.40 | - |
| 234-235 - | - | = 89.04 | - |
| 233-234 | - | 402.23 | - |
| 232-233 | - | 86.20 | - |
| | | 87.95 | - |
| | | Total = 577.98 | - |

Dredge No. 11 July 1966

Dredge operated 31 days
- Dug 455 hrs. 40 min = 18.99 days = 61.25 %
- Lost 288 - 20 - = 12.01 - = 38.75 %
Avg Hgt Bank = 2.2 Ft.
- Depth = 18.7 - (4.4) E.G. 6 Hrs.
Total - = 20.9 -

Surface - 2186 / 1166 / 1020 ; 4284 / 2186 / 2048 ; 5265 / 4234 / 1031 ; 1031 x 17.67 = 18101 Sq Yds.

Bedrock - 6190 / 5256 / 934 ; 7124 / 6190 / 934 ; 937 x 17.67 = 16555 / 3426 / 6

Avg Area = 1732 / 5776

1732 x 20.9 / 3 = 120718 Cu Yds.

120718 / 331 = 3894 Cu. Yds. per day elapsed time

120718 / 18.99 = 6356 - - running -

Total Lost Time when Dr. sunk = 254 Hrs. 10 min

Claims dredged - And. Conc.
Surface area - 3.7 Acres
Avg width - 150 Ft.
- length - 1000 -

18101 / 9 / 16909 ; 16555 / 9 / 1838 ; 1732 / 9 / 15595

Thaw W/o

| | | |
|---|---|---|
| Block #94 - Remainder | = | 66,93 Cu.Yds. |
| " #93 - " | = | 8198 " |
| " #92 - " | = | 101305 " |
| " #90 - " | = | 6,719 " |
| " #88 - 3/4 " | = | 55863 " |
| Total | = | 294378 " |

Strip W/o

| | | |
|---|---|---|
| #2 213 - 23,incl - Remainder | = | 7,129 Cu.Yds. |

Dredge № 11 August 1966

Dredge operated 31 days
Dug 685 Hrs in min = 28.5 days = 92.10 %
Lost 58 " = 2.4 " = 7.90 %
Avg Hgt Bank = 5.3 Ft.
" Depth = 5.5 " (5.0) F.G. = 16 Hrs.
Total " = 18.8 "

Surface - 7737 / 6052 / 1685 ; 9430 / 7737 / 1693 ; 1689 x 17.67 = 29845 Sq Yds.

Bedrock - 1146 / 9467 / 1673 ; 2849 / 1140 / 1709 ; 4550 / 2849 / 1701 ; 1701 x 17.67 = 30057 - 5(997) -

Avg Area = 29986 Sq Yds.

29986 x 18.8 / 3 (6.27) = 188012 Cu. Yds.

188012 / 31 = 6065 Cu. Yds per day elapsed time

188012 / 28.5 = 6585 " " running "

Claims dredged - Rand. Conc.
Surface Area = 6.17 Acres.
Avg width = 160 Ft.
" Length = 1675 "

29845 - 9 = 26860 Sq Yds
30057 - 9 = 27140 "
29986 - 9 = 26974 "

Thaw W/O

| | | |
|---|---|---|
| Block #88 - Remainder | = | 17620 Cu.Yds. |
| - #86 - - | = | 74166 - |
| - #84 - - | = | 66060 - |
| - #82 - - | = | 57924 ✓ |
| - #80 - 1/4 ✓ | = | 17508 - |
| Total | | 233278 ✓ |

Strip W/O

| | | |
|---|---|---|
| X² 198 to 213 incl | = | 62102 Cu.Yds. |

Dredge No: 11 September 1946

Dredge operated 30 days
Dug 674 hrs 0 min = 28.08 days = 93.61 %
Lost 46 - 0 - = 1.92 - = 6.39 %
Avg Hgt Bank = 3.6 Ft.
Depth = 17.2 -
Total - = 20.8 -

F.O F.G. = 11 hrs 50 min

Surface - 1210 / 0760 / 1590 ; 3750 / 1210 / 1602

1296 x 17.67 = 28200 Sq Yds.

Bedrock - 5300 / 3744 / 1756 ; 6880 / 5300 / 1580 ; 8466 / 6880 / 1586

N83 x 17.67 = 2797 -
2 (617 -
28086 -

Avg Area

936
28086 x 20.8 / 3 = 194729 Cu. Yds.

194729 / 30 = 6491 Cu. Yds. per day elapsed time

194729 / 28.08 = 6934 - - running -

Claims dredged - Ard. Conc
Surface area - .83 Acres
Avg width - 165 Ft.
Length - 1440

28800 / 9 = 3800 ; 27972 / 9 = 1748 ; 8086 / 3 = 2774

Thaw W/O

Block № 80 - Remainder - = 55544 Cu Yds
- № 78 - 1/2 - = 45457 -
Total = 101671 ✓

Strip W/O

№ 189-190 - 1533 Cu Yds.
190 - 191 - 2503 -
191 - 192 - 6451 -
192 - 193 - 5089 -
193 - 194 - 3061 -
194 - 195 - 4143 -
195 - 196 - 3348 -
196 - 197 - 4301 -
197 - 198 - 4376 -
Total = 34759 ✓

Dredge No. 11 October 1966

Dredge operated 31 days - 29 days for depth
- dug 642 hrs. 30 min = 26.77 days = 86.30 %
- lost 101 - 35 - = 4.28 - - 13.65 %
Avg Hgt Bank - 5.3 Ft.
- Depth - 18.1 - (5.0) F.G. 2 Hrs.
Total - - 23.4 -

Surface - 1435 / 0297 / 1138 / — 2973 / 1435 / 1138 / 1138 x 17.67 = 20108 / Cu Yds.

Bedrock - 3728 / 2585 / 1143 / 4865 / 3778 / 1087 / 6010 / 4865 / 1145 / 1145 x 17.67 = 20214 / - 2 (40327 /

Avg Area = 20161 /

$$\frac{20161 \times 23.4}{3} \overset{7.8}{=} 157255 \text{ Cu. Yds.}$$

$$\frac{157255}{31} = 5073 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{157255}{26.77} = 5874 \text{ - - running -}$$

Claims dredged - Ard Cons - 2 ALC - 2 LC
Surface area - 4.15 Acres
Avg width - 180 Ft.
- Length - 1035 -

20108 / 9 / 180972 / 20214 / 9 / 181926 / 20161 / 9 / 181449 /

Thaw W/O

Block # 78 - Remainder = 49146 Cu Yds.

Strip W/O

Nil.

Dredge N° 11 — November 1966
Shut down for good on 13th

Dredge operated 12 days
" dug 267 hrs 10 min = 11.13 days = 92.77%
" lost 70 - 50 - = 0.87 - - = 7.23%
Avg dig Bank - 5.9 = 6
" Depth - 18.4 -
Total - - 24.3 -

(5.0) = 6 1 Hr.

Surface - 5777 / 5346 = 431 ; 6200 / 5777 = 423

431 x 17.67 = 7545 Cu Yds

Bedrock - 6630 / 6207 = 423 ; 7048 / 6630 = 418

421 x 17.67 = 7439 —

~ 14984

Avg Area = 7492 —

7492 x 8.1/24.3 / 3 = 6068 Cu Yds.

6068 / 12 = 5057 Cu. Yds. per day elapsed time

6068 / 11.13 = 5452 - - running -

Claims dredged - 12C + 22C on Hunker
Surface area - 1.56 Acres.
Avg Width - 220 Ft.
" Length - 300 -

7545 / 9 = 6790
7439 / 9 = 6695
7492 / 9 = 6742

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