

Dr. N° 9



PRINTED IN



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

Doc. No 9

Tham Whitcoff

$$\text{Block } 53 - 51970 + \left(\frac{100 \times 25 \times 27.0}{27.0} \right) = 54470 \text{ Cords.}$$

Strip Whitcoff

$$X^2 530 - 531 - \frac{1}{4} \text{ Remainder} = 7170 \text{ Cords.}$$

$$531 - 532 - \frac{1}{2} = \underline{17978}$$

$$\text{Total} = 25148$$

Dredge No 9

May 1915
Started May 3 - 11:00pm

Dredge operated 29 days.

Dug 630 hrs. 55 min = 26.29 days = 90.65%

lost 65 - 05 - = 2.71 - = 9.35%

Avg Hat Bank = 4.4 ft.

Depth = 21.4 -

(4.3)

Total = 25.8 -

Surface -
$$\begin{array}{r} 0008 \\ 9655 \\ \hline 343 \end{array}$$

$$\begin{array}{r} 0368 \\ 0008 \\ \hline 360 \end{array}$$

$$\begin{array}{r} 0718 \\ 0368 \\ \hline 350 \end{array}$$

$347 \times 17.67 = 6131 \text{ Sq. Yds.}$

Bedrock -
$$\begin{array}{r} 1047 \\ 0708 \\ \hline 339 \end{array}$$

$$\begin{array}{r} 1382 \\ 1047 \\ \hline 335 \end{array}$$

$337 \times 17.67 = 5955$
 $\sqrt{12086}$

Avg Area = 6043

$$\begin{array}{r} 8.6 \\ 6043 \times 25.8 \\ \hline 3 \end{array} = 51970 \text{ Cu. Yds.}$$

$$\frac{51970}{29} = 1792 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{51970}{26.29} = 1977 \text{ - running -}$$

Pond Elev - 2012.0
Claims dredged - 7A Bel Sulph.
Surface Area - 1.27 Acres
Avg Width Cut - 150 ft.
Length - 360 ✓

$$\begin{array}{r} 6131 \\ 9 \\ \hline 55179 \end{array}$$

$$\begin{array}{r} 5955 \\ 9 \\ \hline 53595 \end{array}$$

$$\begin{array}{r} 6043 \\ 9 \\ \hline 54387 \end{array}$$

Thaw W/O

Block 50 - Remainder = 5021 Cu.Yds.

✓ 53 - $\frac{230 \times 25 \times 27.0}{27}$ = 5750 ✓

✓ 52 - $\frac{375 \times 235 \times 28.0}{27}$ = 91389 ✓

Total = 102160 ✓

Strip W/O

X² 529-530 - Remainder = 18023 Cu.Yds.

✓ 530 - 531 - ✓ = 21511 -

✓ 531 - 532 - ✓ = 17977 ✓

Total = 57511 ✓

Dredge No 9

June 1914

Dredge operated 30 days

✓ dug 673 hrs. 35 min = 28.07 days = 93.55%

✓ lost 46 - 25 - = 1.93 - = 6.45%

Avg. Hgt. Bank = 5.3 ft.

✓ Depth = 17.2 ✓

Total = 22.5 ✓

(11.3)

Surface - $\begin{array}{r} 6023 \\ 5420 \\ \hline 603 \end{array}$

$\begin{array}{r} 6639 \\ 6023 \\ \hline 616 \end{array}$

$\begin{array}{r} 7247 \\ 6639 \\ \hline 608 \end{array}$

$606 \times 17.67 = 10708 \text{ Sq Yds}$

Bedrock - $\begin{array}{r} 7855 \\ 7241 \\ \hline 614 \end{array}$

$\begin{array}{r} 8459 \\ 7855 \\ \hline 604 \end{array}$

$\begin{array}{r} 9067 \\ 8459 \\ \hline 608 \end{array}$

$606 \times 17.67 = 10708 -$

Avg Area = 10708 ✓

$10708 \times \frac{7.5}{3} = 80310 \text{ Cu. Yds}$

$\frac{80310}{30} = 2677 \text{ Cu. Yds per day elapsed time}$

$\frac{80310}{28.07} = 2861 - \text{running} -$

Pond Elev - 2015.3
Claims dredged - 7 A Bel. Sulph.
Surface Area - 2.21 Acres
Avg Width - 250 ft.
Length - 400 ✓

$\begin{array}{r} 10708 \\ 9 \\ \hline 96372 \end{array}$

Thaw W/O

$$\text{Block } \sqrt{2} - \left(\text{Remainder} \right) - \left(\frac{370 \times 130 \times 28.0}{27} \right) = 107622 \text{ Cu Yds.}$$

49881
157503

$$\sqrt{3} - \frac{270 \times 140 \times 27.0}{27}$$

$$= 30800 -$$

$$\text{Total} = 138422$$

Strip W/O

$$\sqrt{2} - \sqrt{3} - \sqrt{33} - \frac{3}{4} \text{ Remainder} = 20943 \text{ Cu Yds.}$$

$$\sqrt{33} - \sqrt{34} - \frac{3}{4}$$

$$= 21219 -$$

$$\text{Total} = 42162$$

Dredge No 9

July 1955

Dredge operated 31 days.

dug 689 hrs. 20 min = 78.72 days = 92.65%

lost 54 - 40 - = 2.28 - = 7.35%

Avg Hgt. Bank = 5.3 Ft.

Depth = 19.5 -

Total = 22.8 -

(11.2)

Surface

$$\begin{array}{r} 5020 \\ 4278 \\ \hline 742 \end{array}$$

$$\begin{array}{r} 5763 \\ 5020 \\ \hline 743 \end{array}$$

743 x 17.67 = 13129 Sq. Yds

Bedrock

$$\begin{array}{r} 6476 \\ 5760 \\ \hline 716 \end{array}$$

$$\begin{array}{r} 7190 \\ 6476 \\ \hline 714 \end{array}$$

715 x 17.67 = 12634 -

$$\begin{array}{r} 12634 \\ + 125763 \\ \hline 12882 \end{array}$$

Avg Area

$$12882 \times \frac{7.6}{3} = 97903 \text{ Cu. Yds}$$

$$\frac{97903}{31} = 3158 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{97903}{88.72} = 3409 \text{ - - - running -}$$

Pond Elev - 2015.5
 Claims dredged - 7A Bel Sulph.
 Surface Area - 2.71 Acres.
 Avg Width - 225 -
 Length - 500 -

$$\begin{array}{r} 13129 \\ 9 \\ \hline 118161 \end{array}$$

$$\begin{array}{r} 12634 \\ 9 \\ \hline 113706 \end{array}$$

$$\begin{array}{r} 12882 \\ 9 \\ \hline 115938 \end{array}$$

Thaw Writeoff

$$\text{Block } 13 - \text{Remainder} = \frac{148583 + 10500}{27} \times 70 \times 150 \times 240 = 138083 \text{ Cu. Yds.}$$

$$\checkmark 15 - \frac{315 \times 60 \times 240}{27} = 18933 \checkmark$$

$$\text{Total} = 157016 \checkmark$$

Strip Writeoff

$$\times 2 \quad 132 - 133 - \text{Remainder} = 13960 \text{ Cu Yds.}$$

$$133 - 134 - \checkmark = 14144 \checkmark$$

$$134 - 135 - \frac{1}{2} \checkmark = 20168 \checkmark$$

$$135 - 136 - \frac{1}{2} \checkmark = 20509 \checkmark$$

$$136 - 137 - \frac{1}{4} \checkmark = 9321 \checkmark$$

$$\text{Total} = 78102 \checkmark$$

Dredge No 9

August 1955

Dredge operated 31 days

✓ dug 685 hrs. w min = 28.57 days = 92.17 %
 ✓ lost 18 - 15 - = 2.43 ✓ = 7.83 %

Avg. Hgt Bank = 2.7 ft.

Depth = 21.6 ✓

Total = 24.3 -

(3.4)

Surface

9561
 8720
 841

0400
 9561
 839

840 x 17.67 = 14843 Sq. Yds.

Bedrock

1230
 0408
 822

2050
 1230
 825

824 x 17.67 = 14560 -

✓ 14843
 14560
 29403

Avg. Area = 14701 -

14701 x $\frac{8.1 \times 24.3}{3}$ = 119078 Cu. Yds.

$\frac{119078}{31}$ = 3841 Cu. Yds. per day elapsed time

$\frac{119078}{28.57}$ = 4168 ✓ - running -

Pond Elev

2020.2

Claims dredged - 7-7A Bel Sulph.

Surface Area - 3.07 Acres

Avg. Width - 220 Ft.

Length - 620 -

14843
 9

14560
 9

14701
 9

133587

131040

132309

Thaw W/D

$$\text{Block } \checkmark 2 - \text{Remainder} = 49881 \text{ Cuyds.}$$

$$\checkmark \quad \checkmark 3 - \quad \checkmark = 10500 -$$

$$\checkmark \quad \checkmark 4 - \frac{375 \times 220 \times 23.0}{27} = 70278 -$$

$$\checkmark \quad \checkmark 5 - \frac{85 \times 80 \times 24.0}{27} = \underline{6044} -$$

$$\text{Total} = 136703 \checkmark$$

Stripping W/D

$$\checkmark 2 \quad \checkmark 34 - \checkmark 35 - \text{Remainder} = 20169 \text{ Cuyds.}$$

$$\checkmark 35 - \checkmark 36 - \quad = 20509 \checkmark$$

$$\checkmark 36 - \checkmark 37 \quad \frac{2}{3} - = 18642 \checkmark$$

$$\checkmark 37 - \checkmark 38 \quad \frac{1}{4} - = 9727 \checkmark$$

$$\checkmark 38 - \checkmark 39 \quad \frac{1}{10} - = \underline{3610} -$$

$$\text{Total} = \underline{72657} \checkmark$$

Dredge No. 9

Sept 1955

Dredge operated 30 days

Aug 6th hrs 31 min = 27.61 days = 92.03 %
 105th 57 - 20 - = 2.39 - = 7.97 %

Avg Hgt Bank = 4.9 ft.

Depth = 14.8 -

(4.8)

Total = 19.7 -

Surface

$$\begin{array}{r} 5261 \\ 4324 \\ \hline 9585 \end{array}$$

940 x 17.67 = 16610 Sq Yds.

Bedrock

$$\begin{array}{r} 7157 \\ 6211 \\ \hline 9468 \end{array}$$

944 x 17.67 = 16680 -

2 | 33290
 Avg Area = 16645 -

$$16645 \times \frac{19.7}{3} = 109302 \text{ Cu Yds.}$$

$$\frac{109302}{30} = 3643 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{109302}{27.61} = 3959 \text{ - running -}$$

Pond Elev - 2018.0
 Claims dredged - 7 Below Surface
 Surface area - 3.43 Acres
 Avg Width - 225 ft.
 Length - 600 -

$$\begin{array}{r} 16610 \\ 9 \\ \hline 149490 \end{array}$$

$$\begin{array}{r} 16680 \\ 9 \\ \hline 150120 \end{array}$$

$$\begin{array}{r} 16645 \\ 9 \\ \hline 149805 \end{array}$$

Thaw W/O

$$\text{Block } \checkmark 4 - 165 \times 110 \times \frac{23.0}{27} = 15461 \text{ Cu.Yds.}$$

$$\checkmark 5 - 225 \times \frac{425 \times 24.0}{27}$$

$$= 85000 \checkmark$$

$$\text{Total} = 100461$$

Strip W/O

$$\checkmark 2 \checkmark 36 - \checkmark 37 - \text{Remainder} = 9322 \text{ Cu.Yds.}$$

$$\checkmark 37 - \checkmark 38 - \checkmark = 29181 \checkmark$$

$$\checkmark 38 - \checkmark 39 - \frac{1}{2} \checkmark = 16245 \checkmark$$

$$\text{Total} = 54748 \checkmark$$

Dredge No 9

October 1912

Dredge operated 31 days

✓ dug 68 hrs. 15 min = 28.43 days = 91.70 %
 ✓ lost 61 " " " = 2.57 " = 8.30 %

Avg Hat Bank = 3.9 ft

Depth = 18.0 -

Total = 21.9 -

(3.3)

Surface

2136	2816
1459	2136
677	680

679 x 17.67 = 11998 Sq. Yds

Bedrock

3480	4152
2818	3480
662	672

667 x 17.67 = 11786

✓ 11786

Avg. Area = 11892

$$11892 \times \frac{7.3}{3} = 86812 \text{ Cu. Yds.}$$

$$\frac{86812}{31} = 2800 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{86812}{28.43} = 3054 \text{ running}$$

Pond Elev - 2018.4

Claims dredged - 5-7 Below Sulph.

Surface Area - 2.48 Acres.

Avg. Width - 180 ft.

Length - 600 -

11998	11786	11892
9	9	9
107982	106074	107028

Thaw W/O

$$\text{Block \#5} - 2845 \times \frac{24.0}{3} = 22760 \text{ Cu. Yds.}$$

24.0

Strip W/O

$$\times 2539.540 - \frac{1}{4} \text{ Remainder} = 2568 \text{ Cu. Yds.}$$

$$\sqrt{40.541} - \frac{1}{8} = 3518$$

$$\text{Total} = 11086$$

Dredge No. 9

November 1955
Shut down Nov 11 - 9:00 AM.

Dredge operated 10 days

✓ dug 212 hrs. 20 min = 8.85 days = 88.49 %

✓ lost 27 - 40 - = 1.15 - = 11.53 %

Avg. Hat Bank = 3.9 ft

Depth = 18.9 -

(3.0)

Total = 22.8 -

Surface

8269

8110

159

8432

8269

163

161 x 17.67 = 2845 Sq. Yds.

Bedrock

8570

8422

148

8714

8570

144

146 x 17.67 = 2579 -

✓ 2845

Avg. Area = 2712 -

2712 x $\frac{7.6}{3}$ = 20611 Cu. Yds. $\frac{20611}{10}$ = 2061 Cu. Yds. per day elapsed time $\frac{20611}{8.85}$ = 2329 - running -

Pond Elev - 2017.0
 Claims dredged - 5 Below Surface
 Surface Area - 0.59 Acres
 Avg width - 200 Ft
 Length - 150 -

2845
 9
 25605

2579
 9
 23211

2712
 9
 24408

Thaw W/O

$$\text{Block } \checkmark 5 - \frac{175 \times 235 \times 24.0}{24.0}$$

$$= 36555 \text{ Cuyds.}$$

$$\text{Block } \checkmark 4 - \frac{50 \times 230 \times 23.0}{23.0}$$

$$= 9796$$

$$\underline{46351}$$

Strip. W/O

$$\checkmark 38 - \checkmark 39 - \frac{1}{2} \text{ Remainder}$$

$$= 8123 \text{ Cuyds.}$$

$$\checkmark 39 - \checkmark 40 - \frac{1}{2} \quad \checkmark$$

$$= 11351 \quad \checkmark$$

$$\checkmark 40 - \checkmark 41 - \frac{1}{4} \quad \checkmark$$

$$= 6158 \quad \checkmark$$

$$\text{Total } \underline{25632}$$

Dredge No. 9

May 1956
 Started Apr 28 - 9:30 AM
 Bailing 1cc - Lost time starts
 May 1 - 8:00 AM

Dredge operated 31 days

dug 660 hrs 45 min - 27.53 days = 88.812
 lost 83 " 15 " = 3.47 " = 11.192
 Avg Hgt Bank = 4.5 ft
 Depth = 19.4
 Total = 23.9 (3.8)

Surface - $\begin{array}{r} 2866 \\ 2523 \\ \hline 343 \end{array}$ $\begin{array}{r} 3217 \\ 2866 \\ \hline 351 \end{array}$ $\begin{array}{r} 3561 \\ 3217 \\ \hline 344 \end{array}$ $344 \times 17.17 = 6078$ Sq Yds

Bedrock - $\begin{array}{r} 3889 \\ 3547 \\ \hline 342 \end{array}$ $\begin{array}{r} 4240 \\ 3889 \\ \hline 351 \end{array}$ $346 \times 17.67 = 6114$ -

$\sqrt{12192}$
 Avg Area = 6096 -

2032
 $6096 \times \frac{23.9}{3} = 48565$ Cu Yds

$\frac{48565}{31} = 1567$ Cu Yds per day elapsed time

$\frac{48565}{27.53} = 1764$ - running -

Pond Elev - 2017.7
 Claims dredged - 5 Below Sulphur
 Surface Area - 1.25 Acres
 Avg Width Cut - 235 ft
 Length - 230 -

$\begin{array}{r} 6078 \\ 9 \\ \hline 54702 \end{array}$ $\begin{array}{r} 6114 \\ 9 \\ \hline 55026 \end{array}$ $\begin{array}{r} 6096 \\ 9 \\ \hline 54864 \end{array}$

Thaw W/O

Block #54. Remainder - 79771 Cu Yds.

$$\begin{array}{r} \text{H 56} - 75 \times 210 \times 24.6 - 14350 \\ \underline{24.6} \quad \quad \quad \underline{27} \quad \quad \quad 94121 \end{array}$$

Strip W/O

X3 538-539 - Remainder = 8122 Cu Yds.

539-540 - ✓ = 11351 ✓

540-541 - $\frac{2}{3}$ ✓ = 12314 ✓

541-542 - $\frac{1}{3}$ ✓ = 8273 ✓

110060 ✓

Dr. #9

June 1956

Dredge operated 30 days

avg 644 hrs. 10 min = 26.84 days = 89.477

lost 75 - 50 = 3.16 = 10.537

Avg. Net Dant = 4.7 ft.

Depth = 13.5

Total = 18.2

(H.H.)

Surface	1958	7588
	6330	6958
	128	630

$$629 \times 17.67 = 11114 \text{ Sq Yds.}$$

Bedrock	8209	8835
	7584	8209
	625	626

$$626 \times 17.67 = 11061$$

$$11114 - 11061 = 53$$

$$\text{Avg. Area} = 11088$$

$$11088 \times \frac{18.2}{3} = 67267 \text{ Cu. Yds.}$$

$$\frac{67267}{30} = 2242 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{67267}{26.84} = 2506 \text{ running}$$

Pond Elev - 2018.6
 Claims dredged - H. J. Bul Sulph.
 Surface Area - 2.30 Acres.
 Avg Width - 280 ft.
 Length - 370

11114	11061	11088
5	9	9
10002	99529	99792

Thaw W/O

Block 55

- Remainder

= 34596 Cu.Yds.

✓ 56
24.6

2599
1971
618

3208
2589
619

619 × 17.67 × $\frac{82}{3}$

= 89683 ✓
125279 ✓

Strip W/O

X2 540-541 - Remainder

= 6158 Cu.Yds.

541-542 - ✓

= 17183 ✓

542-543 - ✓

= 25456 ✓

543-544 - 1/4 ✓

= 7486 ✓
56283 ✓

Dredge No 9

July 1956

Dredge operated 31 days.

Aug 686 hrs. 45 min = 78.61 days = 92.31 %
 lost 57 " 15 " = 2.39 " = 2.69 %

Avg. Wet Bank = 4.3 ft.

Depth = 17.0'

Total = 21.3'

(3.8)

$$\text{Surface} = \frac{9560}{8750} = \frac{810}{810}$$

$$\frac{0376}{9560} = \frac{818}{818}$$

$$813 \times 17.67 = 14366 \text{ Sq. Yds.}$$

$$\text{Bedrock} = \frac{1156}{0367} = \frac{789}{789}$$

$$\frac{1948}{1156} = \frac{792}{792}$$

$$791 \times 17.67 = \frac{13976}{28342}$$

$$\text{Avg Area} = 14171$$

$$14171 \times \frac{7.1}{21.3} = 100614 \text{ Cu. Yds.}$$

$$\frac{100614}{31} = 3246 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{100614}{78.61} = 3517 \text{ - running -}$$

Pond Elev 2020.7

Claims dredged 4 - 1 - Bel Supch.

Surface Area 2.97 Acres.

Avg Width - 240 ft.

Length - 580 -

$$\frac{14366}{9}$$

$$\frac{13976}{9}$$

$$\frac{14171}{9}$$

$$129294$$

$$125784$$

$$127539$$

Thaw W/O

Block 56	-	5050	5787
24.6	-	4315	5050
		735	737
- 57		5687	5888
26.2		5495	5687
		192	201

$$86387 - 20500 = 65887 \text{ SNA}$$

$$196 \times 17.67 \times 26.2 = 30234$$

$$\frac{3}{3} \text{ Total } 96121$$

Strip W/O

X ² 543 - 544	-	Remainder	=	22459 Cuyds
544 - 545	-	-	=	27266
545 - 546	-	1/2	=	11041
546 - 547	-	1/2	=	12724
			Total =	73490

Block #56

Total	190420
Remainder	20500
	169920
	104033

65887 - W/O for Aug

14350
89683

104033 Cuyds written off

190420

104033

86387

- 20500

= 65887 - W/O for Aug.

Dredge No 9

August 1956

Dredge operated 31 days

dug 684 hrs 25 min = 28.5 days = 91.99 %

lost 59 35 = 2.48 = 8.01 %

Avg Hgt Bank = 4.9 ft.

Depth = 15.5 -

Total = 20.4 -

(4.8)

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 8270 \\ 7348 \\ \hline 922 \end{array} \end{array}$$

$$\begin{array}{r} 9192 \\ 8270 \\ \hline 922 \end{array}$$

$$922 \times 17.67 = 16292 \text{ Cu. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 0089 \\ 9189 \\ \hline 920 \end{array} \end{array}$$

$$\begin{array}{r} 1004 \\ 0089 \\ \hline 915 \end{array}$$

$$\begin{array}{r} 1915 \\ 1004 \\ \hline 911 \end{array}$$

$$913 \times 17.67 = 16132$$

$$32424$$

$$\text{Avg Area} = 16212$$

$$16212 \times \frac{6.8}{3} = 110242 \text{ Cu. Yds.}$$

$$\frac{110242}{31} = 3556 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{110242}{28.52} = 3865$$

- running -

Pond Elev - 2021.6
 Claims dredged - 38-4 Bel Sulph.
 Surface Area - 3.37 Acres
 Avg Width - 300 ft
 Length - 490 -

$$\begin{array}{r} 16292 \\ 9 \\ \hline 146628 \end{array}$$

$$\begin{array}{r} 16132 \\ 9 \\ \hline 145188 \end{array}$$

$$\begin{array}{r} 16212 \\ 9 \\ \hline 145908 \end{array}$$

Thaw W/D

Block 56 - Remainder

= 20500 cu.

$$\begin{array}{r} \checkmark \checkmark 7 - \frac{4531}{3924} \quad \frac{5131}{4531} \\ \text{26.2} \quad \underline{607} \quad \underline{600} \end{array}$$

$$604 \times 17.67 \times \frac{5.89}{3} = 93720 -$$

$$\text{Total} = 113720 \checkmark$$

Strip W/D

X² 545 - 546 - Remainder

= 12318 CuYds

546 - 547 - ✓

= 12721 ✓

547 - 548 - 5/6 ✓

= 23680 ✓

548 - 549 - 4/5 ✓

= 23316 ✓

549 - 550 - 1/3 ✓

= 9313 ✓

Total 81351 ✓

Dredge No 9

Sept. 1956

Dredge operated 30 days

✓ dug 664 hrs. 0 min = 27.67 days = 92.22 %
 ✓ lost 16.0 = 2.33 = 7.78 %

Avg Hgt. Bank = 4.8 ft

Depth = 15.5

Total = 20.3

(5.3)

Surface

$$\begin{array}{r} 2185 \\ 1427 \\ \hline 758 \end{array}$$

$$\begin{array}{r} 2991 \\ 2185 \\ \hline 706 \end{array}$$

$$\begin{array}{r} 3710 \\ 2991 \\ \hline 719 \end{array}$$

$$\begin{array}{r} 4465 \\ 3710 \\ \hline 755 \end{array}$$

756 x 17.67 = 13359 Sayds.

Bedrock

$$\begin{array}{r} 5204 \\ 4463 \\ \hline 741 \end{array}$$

$$\begin{array}{r} 5948 \\ 5204 \\ \hline 744 \end{array}$$

743 x 17.67 = 13129 Sayds

2) 26488

AVG. AREA = 13244 Sq Yds

$$\frac{13244 \times 20.3}{3} = 89618 \text{ cu. yds.}$$

$$\frac{89618}{30} = 2987 \text{ CU YDS PER DAY ELAPSED TIME}$$

$$\frac{89618}{27.67} = 3239 \text{ CU YDS PER DAY RUNNING TIME.}$$

Road Elev

- 20.00

Claims dredged

3B - 4

BEL

SULPH.

Surface Area

2.76

ACRES

Avg Width

350

Length

260

$$\begin{array}{r} 13359 \\ 9 \\ \hline 120231 \end{array}$$

$$\begin{array}{r} 13129 \\ 9 \\ \hline 118161 \end{array}$$

$$\begin{array}{r} 13244 \\ 9 \\ \hline 119196 \end{array}$$

Thaw W/O

$$\text{Block 57} - \text{Remainder} - 100 \times \frac{84984}{27} \times \frac{7277}{27} \times 26.2$$

$$= 77507$$

$$- 58 - 300 \times \frac{45}{27} \times 21.4$$

$$= \frac{10700}{88207} \checkmark$$

Strip W/O

$$\text{No 547 - 548 - Remainder}$$

$$= 4939 \text{ Cu. Yds}$$

$$548 - 549 - \checkmark$$

$$= 5832 \checkmark$$

$$549 - 550 \checkmark$$

$$= 18627 \checkmark$$

$$550 - 551 \checkmark$$

$$= 22992 \checkmark$$

$$551 - 552 \checkmark$$

$$\frac{2}{3}$$

$$= 16704 \checkmark$$

$$\text{Total} = 69094 \checkmark$$

DREDGE OPERATED 31 DAYS

DUG 641 HRS 55 MIN = 26.75 DAYS = 86.28%

LOST 102 " 05 " = 4.25 " = 13.72%

AVG. HGT BANK = 4.5 FT

DEPTH = 14.7 FT

TOTAL = 19.2 FT

(4.5)

SURFACE

5043

5901

4192 ✓

5043 ✓

851

858

855 x 17.67 = 15,108 ✓ Sq Yds.

BEDROCK

6740

7574

5900 ✓

6740 ✓

840

834

837 x 17.67 = 14,790 ✓ Sq Yds

2) 29,898 ✓

AVG. AREA = 14,949 ✓ Sq Yds.

$$14,949 \times \frac{6.4 + 19.2}{2} = 95,674 \text{ Cu Yds}$$

95674

=

3086 ✓

Cu YDS PER DAY ELAPSED TIME

31

95674

=

3576
4,983 ✓

" " " " RUNNING "

~~19.2~~

26.75

POND ELEV —

CLAIMS DREDGED

SURFACE AREA

AVG. WIDTH

" LENGTH

3A-3B Below Sulph.

3.09 ACRES.

340

400

15,108

9

135972 ✓

14,790

9 ✓

133110

14,949

9 ✓

134541

Tham W/O

Block 57- Remainder

= 7277 Cu Yds.

- 58. $150 \times 20 \times 21.4$
57

= 2378 -

Total = 9655

X² 551-552 - Strip W/O
Remainder

= 835 Cu Yds.

552-553 - 1/10

= 3507 -

Total = 11859

DREDGE No 9

Nov. 1956

Shut down Nov. 7 - 8:00 AM

DREDGE OPERATED 6 DAYS.

" DUG 115 HRS 20 MINS = 4.81 DAYS = 80.09 %
 " LOST 28 " 40 " = 1.19 " = 19.91 %

AUG. HGT. OF BANK = 30 FT

DEPTH = 16.8 FT.

TOTAL = 21.8

(3.8)

SURFACE : - $\frac{9884}{9802} \checkmark$ $\frac{9966}{9884} \checkmark$ = $82 \times 17.67 \checkmark$ 1449 Sq. yds.
 82 $\checkmark$ 82 $\checkmark$

BEDROCK : - $\frac{10067}{9984} \checkmark$ $\frac{0142}{0067} \checkmark$ = $79 \times 17.67 \checkmark$ 1,396 Sq. yds.
 83 $\checkmark$ 75 $\checkmark$ 2) 2845 $\checkmark$
 AVG. AREA = 1426 3

1423 $\frac{21.8}{3} = 10,340 \checkmark$ Cu. yds

10,340 $= 1,723 \checkmark$ Cu. yds PER DAY ELAPSED TIME
 6

10,340 $= 2,149 \checkmark$ Cu. yds " " RUNNING
 4.81

POND ELEV -

CLAIMS DREDGED. 3A & 3B DEL. SOL.

SURFACE AREA .29 ACRES. $\checkmark$

AVG. WIDTH = 150'

LENGTH = 100'

1449
 9
 13041 $\checkmark$

1396
 9
 12564 $\checkmark$

1423
 9
 12807 $\checkmark$

Thaw w/o.

$$\text{block } 58 - \frac{8358 \times 21.4}{3} = 59620 \text{ Cu. Yds.}$$

Stripping w/o.

$$\checkmark \text{ } X^A \quad 552 - 553 \quad \frac{3}{4} \text{ of remainder} = 23,193 \text{ Cu. Yds.}$$

$$\checkmark \quad 553 - 554 \quad \frac{2}{3} = 26,520$$

$$\checkmark \quad 554 - 555 \quad \frac{1}{5} = 8,062$$

$$\text{Total} = \underline{57,775}$$

Dredge No 9

MAY 1957

Started Apr. 30 - 8:00 AM

Dredge	Operated	31 days		
"	Dug	660 Hrs.	0 mins. = 27.5 days =	88.71% ✓
"	Lost	84 Hrs	0 mins = 3.5 " =	11.29% ✓

Ave	Hgt of bank	= 3.7' ✓
"	Depth	= 14.0' ✓
"	Total depth	= 21.8' ✓

(4.2)

SURFACE	8923	9399
	8472	8923
	469	476

$$473 \times 17.67 = 8358 \text{ Sq Yds.}$$

BEDROCK	9853	0320
	9391	9853
	462	467

$$467 \times 17.67 = 8216$$

$$\text{Avg Area } 8287$$

$$8287 \times \frac{21.8}{3} = 60219 \text{ Cu. Yds.}$$

$$\frac{60219}{31} = 1943$$

Cu. Yds Per Day Elapsed time

$$\frac{60219}{27.5} = 2190$$

" " " " Running "

Pond Elev. 2027.8

CLAIMS DREDGED 3A Bel. Sulph.

SURFACE AREA 1.73

AVG. Width = 200'

AVG LENGTH = 390'

$$\begin{array}{r} 8358 \\ 9 \\ \hline 75222 \end{array}$$

$$\begin{array}{r} 8216 \\ 9 \\ \hline 73944 \end{array}$$

$$\begin{array}{r} 8287 \\ 9 \\ \hline 74583 \end{array}$$

Thaw W/O

$$\text{Block } 58 - \frac{4712}{14156 \times 21.4} - \frac{100837}{89,816} \text{ C yds.}$$

Stripping W/O.

$$X^4 \quad 552-553 \quad \checkmark \quad \text{remainder} = 7,733 \checkmark \text{ C yds}$$

$$" \quad 553-554 \quad \checkmark \quad \frac{2}{3} " = 8,840 \checkmark " "$$

$$" \quad 554-555 \quad \checkmark \quad \frac{3}{4} " = 24,186 \checkmark " "$$

$$" \quad 555-556 \quad \checkmark \quad \frac{4}{5} = 28,784 \checkmark " "$$

$$" \quad 556-557 \quad \checkmark \quad \frac{2}{5} = 12,202 \checkmark " "$$

$$81,745 \checkmark$$

Dredge No 9

June 1957

Dredge Operated 30 Days.
 " Dug. 646 Hrs. 10 min. 26.92 days = 89.75%
 " Lost. 73 " 50 " = 3.08 " = 10.25%
 Avg. Hgt. of bank. = 4.0'
 " Depth. = 15.4' (4.4)
 Total. = 19.4'

Surface 6266 7063
 5464 6266
 802 797 = 800 x 17.67 = 14,136 Sq. Yds.

Bedrock 7830 8610
 7057 7840
 773 770 = 772 x 17.67 = 13,641 Sq. Yds.
 Avg. 2) 27777
 13,889 Sq. Yds.

13,889 x 19.4 / 3 = 89,816 Cu yds.

89,816 / 30 = 2,994 Cu Yds per day elapsed time

89,816 / 26.92 = 3,336 " " " " Running "

Pond Elev. 2027.6
 Claims Dredged. 3 A bel. Sulph.
 Surface Area. 2.92 acres
 Avg. Length. = 580'
 " Width = 200'

14136 13641 13889
 9 9 9
 127224 122769 125001

Thaw W/O

BLOCK 58

$$\begin{array}{r} 1536 \\ 1140 \\ \hline 416 \end{array}$$

$$\begin{array}{r} 2541 \\ 2136 \\ \hline 405 \end{array}$$

$$\begin{array}{r} 137 \\ 111 \\ \hline 26 \end{array}$$

less 12000

$$111 \times 17.67 \times 21.4 = 39805 \text{ Cu. Yds.}$$

" 60

$$\frac{200 \times 130 \times 20.1}{27} =$$

19,355 Cu. Yds.

" 59

$$\frac{140 \times 130 \times 22.0}{27} =$$

14,830 Cu. Yds.

TOTAL =

73,990

Strip W/OX₂₅

553 - 554

REMAINDER

= 4421 Cu. Yds.

"

554 - 555

"

= 8062 " "

"

555 - 556

"

= 7197 " "

"

556 - 557

 $\frac{2}{3}$ OF REMAINDER =

12,202 " "

"

557 - 558

 $\frac{3}{5}$

21,057 " "

"

558 - 559

 $\frac{1}{3}$

12,885 " "

TOTAL =

65,824

Dredge No. 9

July 1917

Dredge operated 31 days

✓ Avg 664 hrs. 30 min = 27.69 days = 89.31 %

✓ Lost 79 ✓ 30 ✓ = 3.31 ✓ = 10.69 %

Avg Hgt Bank = 6.0 ft.

✓ Depth = 13.7 ✓

Total ✓ = 19.7 ✓

(5.7)

Surface

7557

8300

6809

7557

748 ✓

743 ✓

746 × 17.67 = 13182 Sq Yds.

Bedrock

9023

9759

8290

9023

733 ✓

736 ✓

735 × 17.67 = 12987 Sq. Yds.

2) 26169

Avg. Area = 13085 ✓ Sq yds.

13085 × $\frac{19.7}{3}$ = 85,925 ✓ Cu. YDS. $\frac{85,925}{31}$ = 2,772 Cu Yds. PER DAY ELAPSED TIME $\frac{85,925}{27.69}$ = 3,103 ✓ " " " " RUNNING "

Pond Elev.
 Claims dredged
 Surface Area
 Avg Width
 Length

2028.2

3 8 3A.

REL. SULPH.

2.72 ACRES.

200'

490'

13182
 9
 118638 ✓

129.87
 9
 116883 ✓

13085
 9
 117765 ✓

THAW w/o

Block 58

Remainder

$$\frac{200 \times 80 \times 21.4}{.27} =$$

817

Cu. Yds.

Block 59

22.0

$$\frac{10345 \times 22.0}{3}$$

75,863

" "

Total =

76,680

✓

STRIP w/o.X^o 556 - 557 - REMAINDER

=

6,100

Cu. Yds

" 557 - 558 - "

=

14,040

" "

" 558 - 559 - 4/5 "

=

20,616

" "

" 559 - 560 - 3/5 "

=

21,713

" "

" 560 - 561 - 2/5 "

=

12,590

" "

Total =

75,059

DREDGE # 9

Aug 1957

DREDGE OPERATED 31 DAYS.

" DUG - 635 HRS, 55 MINS = 26.50 DAYS = 85.47 %
 " LOST - 108 " 05 " = 4.50 " = 14.53 %
 AVE. HGT. OF BMR. - 6.8'
 " DEPTH - 14.0'
 TOTAL - 20.8 ✓ (6.3)

SURFACE.

1093
0405
688 ✓

1776
1093
683 ✓

= 686 x 17.67 = 12122 Sq Yds.

BEDROCK.

2449
1771
678 ✓

3121
2449
672 ✓

= 675 x 17.67 = 11927 " "

2) 24049 ✓

AVG. AREA = 12025 ✓

12025 x 20.8 = 83,373 ✓ Cu. Yds.
3

83,373 = 2,689 ✓ Cu. YDS PER DAY ELAPSED TIME.
31

83,373 = 3,146 ✓ " " " " RUNNING "
26.50

POND ELEV. 2031.4.

CLAIMS DREDGED - 3 - 3A BEL SUL

SURFACE AREA - 2.50 ACRES

AVG. WIDTH - 210'

" LENGTH - 510'

12122
9
109098 ✓

11927
9
107343 ✓

12025
9
108225 ✓

Shaw W/O

Block 59 -	$\frac{160 \times 130 \times 22.0}{27} + \frac{210 \times 30 \times 22.0}{27}$	= 22081 Cu Yds
- 60 -	Remainder	= 53923 ✓
- 61 -	$\frac{160 \times 130 \times 24.8}{27}$	= 19105 ✓
- 62 -	$\frac{170 \times 155 \times 19.8}{27}$	= 19323 ✓
Total		= 114432 ✓

Strip W/O

558 - 559	- Remainder	= 5154 Cu Yds
559 - 560	- ✓	= 14476 ✓
560 - 561	- ✓	= 18884 ✓
561 - 562	- $\frac{2}{3}$ ✓	= 16036 ✓
562 - 563	- $\frac{2}{3}$ ✓	= 14898 ✓
Total		= 69448 ✓

Dredge No. 9

Sept 1957

Dredge operated 30 days

dug 63 hrs W-min = 27.34 days = 91.157
 lost 63 hrs W-min = 2.66 = 8.817
 Avg. Hgt Bank = 5.1 Ft
 Depth = 15.0
 Total = 20.1 (6.1)

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 1630 \\ 4808 \\ \hline 822 \end{array} \quad \begin{array}{r} 1445 \\ 5630 \\ \hline 815 \end{array} \end{array}$$

$$819 \times 17.67 = 14472 \text{ Sq. Yds}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 7239 \\ 6444 \\ \hline 795 \end{array} \quad \begin{array}{r} 8025 \\ 7239 \\ \hline 786 \end{array} \quad \begin{array}{r} 8814 \\ 8025 \\ \hline 789 \end{array} \end{array}$$

$$790 \times 17.67 = 13959$$

$$\begin{array}{r} 13959 \\ 28431 \\ \hline \end{array}$$

$$\text{Avg Area} = 14215$$

$$14215 \times \frac{6.7}{3} = 95241 \text{ Cu. Yds}$$

$$\frac{95241}{30} = 3175 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{95241}{27.34} = 3484 \text{ running}$$

Pond Elev. = 2032.8
 Claims dredged = 2-3 Bel. Sulph
 Surface Area = 2.99 Acres
 Avg Width = 210
 Length = 590

$$\begin{array}{r} 14472 \\ 9 \\ \hline 130248 \end{array}$$

$$\begin{array}{r} 13959 \\ 9 \\ \hline 125631 \end{array}$$

$$\begin{array}{r} 14215 \\ 9 \\ \hline 127935 \end{array}$$

Thaw w/o

Block #59 - Remainder

= 21807 Cu.Yds

$$\begin{array}{l} \text{#61} - (300 \times 170 + 150 \times 190) \times 24.8 \\ 24.8 \end{array}$$

= 59244 ✓

$$\begin{array}{l} \text{#62} - 200 \times 200 \times 19.8 \\ 19.8 \end{array}$$

= 29333 ✓

Total = 110384 ✓

Strip w/o

Xth 561-562 - Remainder

= 8019 Cu.Yds.

562-563 - ✓

= 7445 ✓

563-564 - ✓

= 26059 ✓

564-565 - ✓

= 29414 ✓

Total = 70941 ✓

Dredge No 9

October 1957

Dredge operated 31 days

- dug 661 hrs. 05 min - 27.55 days = 88.86%

- lost 8 hr 55 - 3.45 = 11.14%

Avg. Hgt. Bank = 5.4 Ft.

- Depth = 15.0 -

Total = 20.4 -

(6.0)

Surface

8765

9540

0311

7984

8765

9540

781

775

771

773 x 17.67 = 13,659 Sq. Yds.

Bedrock

1066

1830

2593

0307

1066

1830

759

764

763

764 x 17.67 = 13,500 Sq. Yds.

2) 27159

Avg. Area = 13,579 Sq. Yds.

$$13,579 \times \frac{6.8}{20.4} = 92,337 \text{ Cu. Yds.}$$

$$\frac{92,337}{31} = 2,979 \text{ Cu. Yds. PER DAY ELAPSED TIME}$$

$$\frac{92,337}{27.55} = 3,352 \text{ " " " " RUNNING "}$$

POND ELEV - 2035.4
 CLAIMS DREDGED - 2, 3 BEL. SULPH.
 SURFACE AREA - 2.82 ACRES.
 AVG. WIDTH - 210'
 - LENGTH - 600'

$$\begin{array}{r} 13,659 \\ 9 \\ \hline 122,931 \end{array}$$

$$\begin{array}{r} 13,500 \\ 9 \\ \hline 121,500 \end{array}$$

$$\begin{array}{r} 13,579 \\ 9 \\ \hline 122,211 \end{array}$$

Tham W/O

$$\begin{array}{l} \text{Block \#6} - 240 \times 200 \times 19.8 \\ 19.8 \\ \hline \text{H61} - 155 \times 20 \times 24.8 \\ 24.8 \\ \hline \end{array}$$

$$= 14264 \text{ Cu Yds.}$$

$$= 2847$$

$$\text{Total} = 17111$$

Strip W/O

$$\text{X? 565-566} - 1/2 \text{ Remainder}$$

$$= 15368 \text{ Cu Yds}$$

$$566-567 - 427$$

$$= 13540$$

$$\text{Total} = 28908$$

Dredge No. 9

November 1957

Shutdown Nov 21 - 8:00 AM.

Dredge operated 20 days

✓ dug 438 hrs. 0 min = 18.25 days = 91.25%

✓ lost 42 - 0 - 1.75 - 8.75%

Avg Hgt Bank = 7.2 ft.

Depth = 150

Total = 22.2

(6.0)

Surface

8605

8917

8292

8605

313

312

313 x 17.67 =

5531

Sq. Yds

Bedrock

9200

9498

8903

9200

297

298

298 x 17.67 =

5266

Sq. Yds

2) 10797

Avg. Area = 5399 Sq. Yds

$$5399 \times \frac{7.4}{22.2} = 1766$$

39953 CUBIC YARDS.

$$\frac{39953}{20} = 1998$$

1998 "

PER DAY ELAPSED TIME

$$\frac{39953}{18.25} = 2189$$

2189 "

PER DAY RUNNING TIME

Pond Elev

2035.6

Claims dredged

2 BELOW SULPH

Surface Area

1.14

Avg width

180

Length

280

$$\begin{array}{r} \sqrt{531} \\ 23 \\ \hline 49779 \end{array} \quad \begin{array}{r} \sqrt{566} \\ 23 \\ \hline 42394 \end{array} \quad \begin{array}{r} \sqrt{399} \\ 19 \\ \hline 48591 \end{array}$$

Tham W/O

$$\text{Block \#61} - \text{Area } \frac{2385 \times 24.8}{27} = 2190 \text{ Cu.Yds}$$

Stripping W/O

$$\text{X}^n \text{ 565} - \text{566} - \frac{1}{24} \text{ of Remainder} = 640 \text{ Cu.Yds.}$$

$$\text{566} - \text{567} - \frac{1}{24} = \underline{779}$$

$$\text{Total} = 1419 \checkmark$$

Dredge No 9

April 1958
Started Apr 29 - 8:00 AM.

Dredge operated 2 days

$$\begin{array}{l} \checkmark \text{ Bug 46 hrs. } 0 \text{ min} = 1.92 \text{ days} = 95.83\% \\ \checkmark \text{ lost } \checkmark \checkmark 0 \text{ } = 0.08 \text{ } = 4.17\% \end{array}$$

Avg Hgt Bank = 5.0 Ft.

Depth = 16.0 $\checkmark$ Total = 21.0 $\checkmark$

(5.0)

Surface

6907

6921

6892

6907

15

14

 $15 \times 17.67 =$

265

Sq Yds.

Bedrock

7395

7410

7381

7395

14

15

 $15 \times 17.67 =$

265

Sq Yds.

Average Area = 265 Sq Yds.

$$265 \times \frac{7.0}{3} = 1,855 \text{ Cubic Yards}$$

$$\frac{1,855}{2} = 928 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{1,855}{1.92} = 966 \text{ " " " " Running time}$$

Pond Elev	-	2037.5
Clams dredged	-	2 Bel. Sul.
Surface Area	-	.05 Acre.
Avg width	-	160
Length	-	10

$$\begin{array}{r} 265 \\ 9 \\ \hline 2,385 \end{array}$$

$$\begin{array}{r} 265 \\ 9 \\ \hline 2,385 \end{array}$$

$$\begin{array}{r} 265 \\ 9 \\ \hline 2,385 \end{array}$$

Thaw W/O

$$\text{Block \#61} - \text{Remainder} = 44358 \text{ Cu.Yds}$$

$$\checkmark \#63 - \frac{300 \times 100 \times 31.8}{31.8 \times 7} = \underline{35333} \quad \checkmark$$

$$\text{Total} = 77691 \quad \checkmark$$

Strip W/O

$$\checkmark \# \text{ 565-566} - \text{Remainder} = 14729 \text{ Cu.Yds}$$

$$566-567 - \frac{4}{5} \text{ Remainder} = 14336 \quad \checkmark$$

$$567-568 - \frac{1}{5} \quad \checkmark = \underline{15442} \quad \checkmark$$

$$\text{Total} = 44507 \quad \checkmark$$

Dredge # 9 May 1958

Dredge Operated 31 days

" Dug — 676 Hrs. 50 mins = 28.20 days = 90.97%
 " Lost — 67 " 10 " = 2.80 " = 9.03%

Avg Hgt of Bank = 5.7 Feet

" Depth = 16.0 "

" Total = 21.7 "

(5.0)

Surface

0523

0960

0090

0523

433

437

435 × 17.67 =

7,686 Sq. Yds.

Bedrock

1430

1863

0995

1430

435

433

434 × 17.67 =

7,669 Sq. Yds.

2)15,355

Avg. Area = 7,678 Sq. Yds.

$$\frac{7,678 \times 21.7}{3} = 55,538 \text{ Cubic Yards}$$

$$\frac{55,538}{31} = 1,792 \text{ Cubic Yards per day Elapsed Time}$$

$$\frac{55,538}{28.2} = 1,969 \text{ " " " Running Time}$$

Pond Elev. — 2039.1

Claims dredged — 1 and 2 Bel. Sulph.

Surface Area — 1.6 Acres

Avg. Width — 180'

" Length — 400'

7,686
9

69,174

7,669
9

69,021

7,678
9

69,102

Thaw W/O

Block # 62 - Remainder = 4400 CY.

$$\begin{array}{r} \checkmark \text{ # 63 - } \frac{7409}{31.8} \quad \frac{7577}{168} \quad \frac{169 \times 17.67 \times 318}{3}^{10.6} = 31654 \quad \checkmark \end{array}$$

$$\checkmark \text{ # 64 - } \frac{9712}{22.0} \quad \frac{0110}{398} \quad \frac{398 \times 17.67 \times 220}{3}^{5.89} = 51581 \quad \checkmark$$

$$\text{Total} = 89635 \quad \checkmark$$

Strip W/O

$$\checkmark \text{ # 566-567 - Remainder} = 3585 \text{ C.Y.S.}$$

$$\checkmark \text{ # 567-568 - } = 15443 \quad \checkmark$$

$$\checkmark \text{ # 568-569 - } = 27674 \quad \checkmark$$

$$\checkmark \text{ # 569-570 - } \frac{1}{4} \quad \checkmark = 7148 \quad \checkmark$$

$$\text{Total} = 53850 \quad \checkmark$$

Dredge #9 June 1958

Dredge Operated 30 days

" Dug - 656 hrs. 35 mins. = 27.36 days = 91.19%

" Lost - 63 " 25 " = 2.64 " = 8.81%

Avg. hgt of bnt. - 6.3

" Depth - 16.0

Total - 22.3

(5.0)

Surface

10393

1004

9780

393

613 ✓

611 ✓

612 × 17.67 =

10,814

Sq. Yds.

Bedrock

1615

2222

1002

1615

613 ✓

607 ✓

610 × 17.67 =

10,779

Sq. Yds.

2) 21,593 ✓

Avg Area =

10,797 ✓

Sq. Yds.

10,797 × $\frac{22.3}{3}$ = 80,258 Cubic Yards $\frac{80,258}{30}$ = 2,675 Cubic Yards per day Elapsed time $\frac{80,258}{27.36}$ = 2,933 " " " Running "

Pond Elev. - 2039.0

Claims dredged - 1 Bel. Sul.

Surface Area - 2.2 Acres.

Avg. width - 220

" Length - 450

10814

9

97,326 ✓

10779

9

97,011 ✓

10797

9

97,173 ✓

Tham N/O

Block #63 - Remainder

= 117029 Cuy

$$\begin{array}{r}
 \text{#64} - \begin{array}{r} 0190 \\ 0012 \\ \hline 178 \end{array} \begin{array}{r} 0376 \\ 0190 \\ \hline 186 \end{array} \begin{array}{r} 189 \\ 182 \\ 12.57 \\ 220 \end{array} = 23584 \\
 \text{---} \\
 \text{Total} = 140613
 \end{array}$$

Strip N/O

✓ 569-570 - Remainder

= 21444 Cuy

570-571 - ✓

= 22533 ✓

✓ 571-572 - 1/2 ✓

= 9274 ✓

Total = 57251 ✓

Dredge No 9

July 1958

Dredge operated 31 days

Avg Lgt hrs. or min = 27.96 days = 90.20%

Avg Wd = 3.04 = 9.80%

Avg Hgt Bank = 6.8 ft.

Depth = N.B.

Total = 22.4

(5.0)

Surface

7891

8637

7128

7881

763

756

760 x 17.67 =

13,429 Sq. Yds.

Bed rock

9358

0091

8627

9358

731

733

732 x 17.67 =

12,934 Sq. Yds.

Avg. Area

2) 26,363
13,182

Sq. Yds.

$$\frac{4394}{13,182} \times 22.4 = 98,426 \text{ Cubic Yards}$$

$$\frac{98,426}{31} = 3,175 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{98,426}{27.96} = 3,520 \text{ " " " Running "}$$

Pond Elev
Claims dredged
Surface Area
Avg width
Length

2046.8

0A, 1 Bel. Sel.

2.8 acres.

210

600

$$\begin{array}{r} 13,429 \\ 9 \\ \hline 120,861 \end{array}$$

$$\begin{array}{r} 12,934 \\ 9 \\ \hline 116,406 \end{array}$$

$$\begin{array}{r} 13,182 \\ 9 \\ \hline 118,638 \end{array}$$

Thaw ~~W/O~~

Block #64 - Remainder = 14155 CuYd

$$\checkmark \quad \begin{array}{l} \text{#65} \\ 32.8 \end{array} - \frac{(380 \times 110 + 190 \times 70) \times 32.8}{27} = 66936 \quad \checkmark$$

$$\checkmark \quad \begin{array}{l} \text{#66} \\ 20.5 \end{array} - \frac{200 \times 295 \times 20.5}{27} = 44796 \quad \checkmark$$

$$\text{Total} = 125887 \quad \checkmark$$

Strip ~~W/O~~

X3 571-572 - Remainder = 9274 CuYds.

$$572-573 - \quad \checkmark = 18610 \quad \checkmark$$

$$573-574 - \quad \frac{1}{2} \quad \checkmark = 14294 \quad \checkmark$$

$$574-575 - \quad \frac{1}{2} \quad \checkmark = 16839 \quad \checkmark$$

$$\text{Total} = 59017 \quad \checkmark$$

Dredge # 9 August 1958

33

Dredge Operated - 31 Days

✓ Dug. 675 hrs. 10 mins. = 28.13 days = 90.75%
 ✓ Lost 68 ✓ 50 ✓ = 2.87 ✓ = 9.25%

Avg. Hgt of bnt - 6.0 ft

✓ Depth - 17.4 -

Total = 23.4

(4.8)

Surface $\frac{10286}{9420} \frac{1147}{0286}$
 $\frac{866}{861}$ $864 \times 17.67 = 15,267$ Sq Yds.

Bedrock $\frac{1978}{1142} \frac{2819}{1978}$
 $\frac{836}{841}$ $839 \times 17.67 = 14,825$ Sq Yds.

Avg. Area. $\frac{2}{15,046} \frac{14,825}{30,092}$ Sq. Yds.

$\frac{15,046 \times 23.4}{3} = 117,359$ Cubic Yards.

$\frac{117,359}{31} = 3,786$ Cubic Yards per day Elopsed time

$\frac{117,359}{28.13} = 4,172$ ✓ ✓ ✓ Running ✓

Pond Elev. - 2050.1

Claims dredged - OA, 1 Bel. S.

Surface Area - 3.2

Avg. Width - 200'

✓ Length - 680'

$\frac{15,267}{9}$
 137,403 ✓

$\frac{14,825}{9}$
 133,425 ✓

$\frac{15,046}{9}$
 135,414 ✓

Thaw W/O

$$\text{Block \#65} - 303 \times 290 \times \frac{32.8}{27} = 106745 \text{ CuYds.}$$

32.8

$$- \text{ \#67} - 240 \times 105 \times \frac{21.8}{27} = 20346$$

21.8

$$\text{Total} = 127091$$

Strip W/O

$$\text{N}^{\circ} 573-574 - \text{Remainder} = 14294 \text{ CuYds.}$$

$$574-575 - \checkmark = 16839 \checkmark$$

$$575-576 - 2/5 \checkmark = 13048 \checkmark$$

$$576-577 - 1/3 \checkmark = 9393 \checkmark$$

$$\text{Total} = 53574 \checkmark$$

Dredge No. 9

September 1918

Dredge operated 30 days

Avg 661 hrs. 55 min. = 27.58 days = 91.93 %

Avg 58, 05, 10 = 2.42 = 8.07 %

Avg Hgt Bank = 5.9 ft.

Depth = 20.5

Total = 26.4

(4.0)

Surface

$$\begin{array}{r} 1114 \\ 0365 \\ \hline 749 \end{array}$$

$$\begin{array}{r} 1910 \\ 1159 \\ \hline 751 \end{array}$$

$$750 \times 17.67 = 13,252 \text{ Sq. Yds.}$$

Bedrock

$$\begin{array}{r} 2854 \\ 2132 \\ \hline 722 \end{array}$$

$$\begin{array}{r} 4483 \\ 3763 \\ \hline 720 \end{array}$$

$$721 \times 17.67 = 12,740 \text{ Sq. Yds.}$$

$$2 \overline{) 25,992}$$

$$\text{AVG. AREA } 12,992 \text{ Sq. Yds.}$$

$$\begin{array}{r} 6 \\ 12,992 \end{array} \times \begin{array}{r} 8.8 \\ 26.4 \end{array} = \begin{array}{r} 64 \\ 114,328 \end{array} \text{ CUBIC YARDS}$$

$$\begin{array}{r} 64 \\ 114,328 \\ \hline 30 \end{array} = \begin{array}{r} 2 \\ 3,811 \end{array} \text{ CUBIC YARD PER DAY ELAPSED TIME}$$

$$\begin{array}{r} 64 \\ 114,328 \\ \hline 27.58 \end{array} = \begin{array}{r} 7 \\ 4,145 \end{array} \text{ RUNNING TIME}$$

Pond Elev. - 2052.8
 Claims dredged - OA - DISCOVERY
 Surface Area - 2.7 ACRES
 Avg. width - 200'
 Length - 596'

$$\begin{array}{r} 13,252 \\ 9 \\ \hline 119,268 \end{array}$$

$$\begin{array}{r} 12,740 \\ 9 \\ \hline 119,660 \end{array}$$

$$\begin{array}{r} 6 \\ 12,992 \\ 9 \\ \hline 116,928 \\ 64 \end{array}$$

Tham W/O

Block # 65 - Remainder = 23053 Cu.Yds.

$$\begin{array}{r} \checkmark \quad 67 - 250 \times 115 \times 21.8 \\ \quad 21.8 \end{array} = 23213 \quad \checkmark$$

$$\checkmark \quad 66 - \text{Remainder} = 29913 \quad \checkmark$$

$$\begin{array}{r} \checkmark \quad 68 - 170 \times 85 \times 21.4 \\ \quad 21.4 \end{array} = 5726 \quad \checkmark$$

$$\text{Total} = 81905 \quad \checkmark$$

Strip W/O

$$\checkmark 2 \quad 575 - 576 - \text{Remainder} = 19574 \text{ Cu.Yds}$$

$$576 - 577 - 3/4 = 11271$$

$$\text{Total} = 30845 \quad \checkmark$$

Dredge No 9

October 1918

Dredge operated 31 days

✓ dug 673 hrs. 05 min = 28.01 days = 90.472
 ✓ lost 40 - - - - - = 2.95 - = 9.132

Avg Hgt Bank = 4.3 ft.

Depth = 20.3

Total = 24.6

(2.8)

Surface

6943

7455

6435

6943

508 ✓

512 ✓

510 × 17.67 =

9,012 ✓

Sq. Yds.

Bedrock

7990

8497

7482

7990

508 ✓

507 ✓

508 × 17.67 =

8,976 ✓

Sq. Yds.

2 17988 ✓

Avg. Area =

8,994 ✓

Sq Yds

$$8994 \times \frac{8.2}{3} = 73,751 \text{ Cubic Yards}$$

$$\frac{73,751}{31} = 2,379 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{73,751}{28.05} = 2629 \text{ Running}$$

Pond Elev

2052.6

Claims dredged

Discovery on Sulphur

Surface Area

1.86 Acres.

Avg width

220'

Length

380'

9,012

9

81,108 ✓

8,976

9

80,784 ✓

8,994

9

80,946 ✓

than w/o

Block # 68 -
21.4

$$\begin{array}{r} 8450 \\ 8297 \\ \hline 153 \end{array}$$

$$\begin{array}{r} 8600 \\ 8450 \\ \hline 150 \end{array}$$

$$152 \times 17.67 \times 21.4$$

19153 Cu.Yds

Block # 67 -
21.8

$$28 \times 15 \times 21.8$$

$$= 1243$$

Total

20396 ✓

Strip w/o

X² 576 - 577 - Remainder

$$= 7514 \text{ Cu.Yds}$$

577 - 578 - 1/10 -

$$= 2857$$

Total = 10371 ✓

Dredge # 9 November 1958

Shut down Nov. 10. 8 A.M.

Dredge Operated 9 Days

✓ Dug 200 hrs 25 min = 8.35 days = 92.79%

✓ Lost 15 - 35 - = 0.65 - = 7.21%

Avg. Hgt of Bank - 5.1 ft.

Depth - 17.9 -

Total - 23.0 -

(11.6)

Surface

6669

4806

6533

6669

136 ✓

137 ✓

137 x 17.67 =

2,421 ✓

Sq. Yds

Bedrock

6935

7063

6807

6935

128 ✓

128 ✓

128 x 17.67 =

2,262 ✓
2) 4,683 ✓
2,342 ✓

Sq. Yds

$$2312 \times \frac{23.0}{3} = 17955 \text{ Cu. Yds}$$

$$\frac{17955}{9} = 1995 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{17955}{8.35} = 2150 \text{ running}$$

Pond Elev - 2053.6

Claims dredged - Discovery

Surface Area - .5 acre

Avg Length 100'

✓ Width 225'

2,421

9

21,789 ✓

2,262

9

20,358 ✓

2,342

9

21,078 ✓

Thaw W/O

$$\text{Block \#68} - \frac{115 \times 240 \times 21.4}{21.4} = 21875 \text{ Cuyds.}$$

$$\text{Block \#67} - \frac{30 \times 60 \times 21.8}{21.8} = 1453$$

$$\text{Total} = 23328 \quad \checkmark$$

Strip W/O

$$\text{No 577-578} - \frac{1}{4} \text{ Remainder} = 6428 \text{ Cuyds.}$$

$$578-579 - \frac{1}{8} \quad \checkmark$$

$$= 3475$$

$$\text{Total} = 9903 \quad \checkmark$$

Dredge No 9 May 1959

started May 7 - 800 A.M.

May 7 spent bailing ice
started to dig on the 8th

Dredge Operated 24 days

"	Dug	496 hrs 45 mins	= 20.70 days	= 86.24%
"	Lost	79 " 15 "	= 3.30 "	= 13.76%

Avg. Hgt of bank — 3.3 F.T.

" Depth — 16.9 "

Total " — 20.2 ✓

(4.7)

Surface

4965

5170

4762

4965

203 ✓

205 ✓

204 × 17.67 =

3,605

Sq. Yds.

Bedrock

5365

5566

5160

5365

205 ✓

201 ✓

203 × 17.67 =

3,587 ✓

Sq. Yds.

Avg. Area =

2) 7,192 ✓

3,596 ✓

Sq. Yds.

$$\frac{3,596 \times 20.2}{3} = 24,213 \text{ Cubic Yards.}$$

$$\frac{24,213}{24} = 1,009 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{24,213}{20.70} = 1,170 \text{ Running}$$

Pond Elev - 2054.8

Claims dredged - Discovery Sulphur.

Surface Area - .74 acres.

Avg Width - 150'

" Length - 225'

3605

3587

3596

9

9

9

32,445 ✓

32,283 ✓

32,364 ✓

Thaw W/O

$$\text{Block \#67} - 9436 \times \frac{7.3}{3} = 68568 \text{ Cu Yds.}$$

Strip W/O

$$\text{X}^2 \text{ 577} \times \text{578} - \frac{3}{4} \text{ Remainder} = 14463 \text{ Cu Yds.}$$

$$578 - 579 - \frac{1}{2} \quad \checkmark = 12167 \quad \checkmark$$

$$579 - 580 - \frac{1}{2} \quad \checkmark = \underline{4215} \quad \checkmark$$

$$\text{Total} = 30839 \quad \checkmark$$

Dredge No 9 June 1959

Dredge Operated 30 days

✓ Dug 660 hrs 35 mins = 27.52 days = 91.75%

✓ Lost 59 ✓ 25 ✓ = 2.48 ✓ = 8.25%

Avg. Hgt of Bank = 5.8 ft.

✓ Depth = 17.8 ✓

Total ✓ = 23.6 ✓ ✓

(4.3)

Surface 1502

2035

0967

1502

535 ✓

533 ✓

534 × 17.67 = 9436 ✓

Sq. Yds

Bedrock 2558

3080

2028

2558

530 ✓

522 ✓

526 × 17.67 =

9294 ✓

Sq. Yds.

2) 18730 ✓

Avg. Area =

9365 ✓

Sq. Yds

9,365 × $\frac{23.6}{3}$ = 73,671 ✓ Cubic Yards $\frac{73,671}{30}$ = 2,459⁶ Cubic yards per day Elapsed time $\frac{73,671}{27.52}$

2,677 ✓ ✓ ✓ ✓ Running ✓

Pond Elev. - 2054.4

Claims dredged - Discovery Sul.

Surface Area - 1.95 acres.

Avg Width - 225'

Avg Length - 380'

9436

9

84,924 ✓

9294

9

83,646 ✓

9365

9

84,285 ✓

Thaw W/O

Block #67 - Remainder

= 80883 Cu Yds

$$- \text{H69} - 380 \times 35 \times \frac{19.6}{27}$$

= 9655 -

Total = 90538 ✓

Strip W/Ox^o 577-578 - Remainder

= 4819 Cu Yds.

578-579 - 1/2 ✓

= 6080 ✓

579-580 - 3/4 ✓

= 18966 ✓

580-581 - 3/5 ✓

= 17436 ✓

581-582 - 1/6 ✓

= 4775 ✓

Total = 52076 ✓

Dredge No 9 July 1959

Dredge Operated 31 days

✓ Dug - 682 hrs 10 min = 28.42 days = 91.69%

✓ Lost - 61 ✓ 50 ✓ = 2.58 ✓ = 8.31%

Avg. Hgt. of bank - 5.9 ft.

✓ Depth - 14.5 ✓

Total ✓ 20.4 ✓

(5.2)

	3130	3855			
<u>Surface</u>	2400	3130	✓		
	730 ✓	725 ✓	728 × 17.67 =	12,864	Sq. Yds.

<u>Bedrock</u>	4580	5310			
	3855	4580	✓		
	725 ✓	730 ✓	728 × 17.67 =	12,864	Sq. Yds.

Avg Area = 12,864 ✓

✓ 12864 × $\frac{6.8}{3}$ = 87,475 ✓ Cubic Yards

$\frac{87,475}{31}$ = 2,822 Cubic yards per day Elapsed time

$\frac{87,475}{28.42}$ = 3,078 ✓ Running ✓

Pond Elev - 2056.2

Claims dredged - Discovery, Al on Sulphur

Surface Area - 2.66 acres ✓

Avg width - 200

✓ Length - 570

12864
9
115,776 ✓

12864
9
115,776 ✓

12864
9
115,776 ✓

Thaw W/O

Block # 68 - Remainder

= 63299 Cu.Yds

$$\checkmark \# 69 - \frac{100 \times 70 \times 19.6}{27}$$

= 5081 ✓

$$\checkmark \# 70 - \frac{435 \times 16 \times 19.4}{27}$$

= 50634 ✓

Total 119014 ✓✓

Strip W/O✓ⁿ 578-579- Remainder

= 6080 Cu.Yds.

579-580- ✓

= 6322 ✓

580-581- -

= 11624 ✓

581-582- $\frac{1}{2}$ ✓

= 11938 ✓

582-583- $\frac{1}{3}$ ✓

= 9530 ✓

Total = 45494 ✓✓

DREDGE # 9 AUGUST 1959

Dredge Operated 31 days

✓ Dug 678 hrs. 25 mins = 28.27 days = 91.19 %
 ✓ 65 - 35 ✓ = 2.73 - = 8.81 %

Avg. Hgt of bank = 6.8 ft.

✓ Depth = 14.8 ✓

Total ✓ = 21.6 ✓

(5.0)

Surface

8384

9125

7643

8384

741 ✓

741 ✓

741 × 17.67 =

13,093 ✓

Sq. Yds.

Bedrock

9852

10584

9131

9852

721 ✓

732 ✓

727 × 17.67 =

12,846 ✓

Sq. Yds.

2) 25,939

12,970 ✓

$$\frac{12,970 \times 7.2}{3} = 93,384 \text{ CUBIC YARDS}$$

$$\frac{93,384}{31} = 3,012 \text{ CUBIC YARDS PER DAY ELAPSED TIME}$$

$$\frac{93,384}{28.27} = 3,303 \text{ RUNNING ✓}$$

Pond Elev- 2058.2

Claims dredged - Discovery, A1. Sulphur

Surface Area 2.71 acres

Avg. width of cut 220'

✓ Length 580'

13093

9

117,837 ✓

12846

9

115,614 ✓

12970

9

116,730 ✓

than w/o

$$\text{Block \# 69} - \frac{3-70}{19.6} \cdot \frac{3944}{3-70} \cdot \frac{670 \times 17.67 \times 19.6}{3} = 77050 \text{ Cu. Yds.}$$

$$- \text{H 70} - \frac{210 \times 100 \times 19.4}{19.4} = 7544 \checkmark$$

$$\text{Total} = 84594 \checkmark$$

Strip w/o

$$X^? \text{ 581-582} - \text{Remainder} = 11939 \text{ Cu. Yds.}$$

$$582-583 - \quad \quad \quad = 19059 \checkmark$$

$$583-584 - \frac{1}{3} \quad \quad \quad = 8744 \checkmark$$

$$584-585 - \frac{1}{7} \quad \quad \quad = 3750 \checkmark$$

$$\text{Total} = 43492 \checkmark$$

Dredge # 9 September 1959

Dredge Operated 30 days

✓ Dug - 659 hrs 40 mins = 27.49 days = 91.62 %

✓ Lost - 60 ✓ 20 ✓ = 2.51 ✓ = 8.38 %

Avg. Hgt of bank - 4.6 ft.

✓ Depth - 13.7 ✓

Total ✓ - 18.3 ✓

4.8

Surface

0888

1657

0117

0888

771 ✓

769 ✓

770 × 17.67 = 13606 ✓ Sq Yds

Bedrock

2403

3161

1648

2403

755 ✓

758 ✓

757 × 17.67 = 13376 ✓ Sq. Yds.

$$\frac{13,491 \times 6.1}{3} = 82,295 \text{ Cubic Yards.}$$

$$\begin{array}{r} 2 \overline{) 26,982} \\ 13,491 \end{array}$$

$$\frac{82,295}{30} = 2,743 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{82,295}{27.49} = 2,994 \text{ Running}$$

Pond Elev. 2060.3

Claims dredged A1 Sul.

Surface Area 2.81 acres.

Avg. width of cut. 200'

✓ Length - - 600

$$\begin{array}{r} 13,606 \\ 9 \\ \hline 122,454 \end{array}$$

$$\begin{array}{r} 13,376 \\ 9 \\ \hline 120,384 \end{array}$$

$$\begin{array}{r} 13,491 \\ 9 \\ \hline 121,419 \end{array}$$

Thaw W/O

$$\text{Block \#69} - \frac{9575}{9287} \frac{9856}{9575} \frac{95}{85} \times 17.67 \times \frac{19.6}{3} = 32870 \text{ Cu. Yds.}$$

19.6 288 281

$$\text{Block \#70} - \frac{170 \times 215 \times 19.4}{27}$$

19.4

$$\text{Total} = \frac{26262}{59132}$$

Strip W/O

$$\times 2 \text{ \#83-584} - \frac{2}{3} \text{ Remainder} = 11662 \text{ Cu. Yds.}$$

$$\text{\#84-585} - \frac{2}{3} \quad \checkmark = 15002 \quad \checkmark$$

$$\text{\#85-586} - \frac{1}{4} \quad \checkmark = 5756 \quad \checkmark$$

$$\text{Total} = 32420 \quad \checkmark$$

Dredge # 9 October 1959

Dredge Operated 31 days

✓ Dug 666 hrs. 10 mins = 27.76 days = 89.54%

✓ Lost 77 ✓ 50 ✓ = 3.24 ✓ = 10.46%

Avg Hgt of bank - 4.7 ft.

✓ Depth - 14.5 ✓

Total ✓ - 19.2 ✓

(4.5)

Surface

7805

8302

7302

7805

503 ✓

497 ✓

500 × 17.67 = 8835 ✓

Sq. Yds.

Bedrock

8785

9218

8287

8785

498 ✓

493 ✓

496 × 17.67 = 8764 ✓

Sq. Yds.

17599 ✓

Avg Area = 8799 ✓

$$8799 \times \frac{6.4}{19.2} = 56313 \text{ Cu. Yds.}$$

$$\frac{56313}{31} = 1817 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{56313}{20.76} = 2029 \text{ - running -}$$

Pond Elev. 2060.8

Claims dredged A1, A1A

Sulphur

Surface Area 1.83 Acres

Avg width of cut 210

✓ Length - 400

8835

8764

8799

9

9

9

79515 ✓

78876 ✓

79191 ✓

Thaw W/O

$$\text{Block \#70} - \frac{1979 \times 19.4}{3} = 12798 \text{ Cu.Yds.}$$

19.4

Strip W/O

$$\text{NO 583-584} - \text{Remainder} = 5831 \text{ Cu.Yds.}$$

$$584-585 - \frac{1}{2} -$$

$$= 3750$$

$$\text{Total} = 9581$$

$$\begin{array}{r} 3 \overline{) 39.03} \\ \underline{13.068} \end{array}$$

DREDGE # 9 NOVEMBER 1959 - Shutdown
Nov 12 - 8:00 AM

DREDGE OPERATED 11 days

✓ DUG 237 hrs or min = 9.88 Days = 89.80 %
✓ LOST 26 - 25 = 1.12 = 10.20 %

AVG. HST. OF BANK - 4.9 Ft.

DEPTH - 15.0 -

TOTAL ✓ - 19.9 -

(5.7)

Surface

2639

2750

2527

2639

112 ✓

111 ✓

112 x 17.67 =

1979 -

Sq. Yds.

Bedrock

2870

2980

2759

2870

111 ✓

110 ✓

111 x 17.67 =

1961 -

Sq Yds.

Avg Area =

✓ 13940

1970 -

1970 x 19.9 = 13067 Cu Yds.

13067 / 11 = 1188 Cu Yds per day elapsed time

13067 / 9.88 = 1323 - running -

Pond Elev. 2060.1

Claims dredged AIA and AI Sulphur

Surface Area 0.41 Acres.

Avg. width of cut 200'

✓ Length ✓ 100'

1979

9

17811 ✓

1961

9

17649 ✓

1970

9

17730 ✓

Tham w/o

Block # 70 - Remainder

= 27329 Cu.Yds.

$$H 72 - 275 \times 175 \times 20.2$$

= 36004 ✓

Total = 63333 ✓

Strip w/o

57584-585 Remainder

= 3720 Cu.Yds.

585-586 - 1/2 ✓

= 8635 ✓

586-587 - 3/4 ✓

= 6962 ✓

587-588 - 1/4 ✓

= 3127 ✓

Total = 22474 ✓

Dredge No 9

May 1960
Started May 2 - 9:30 AM.

Dredge operated 30 days
 dug 666 hrs. 55 min = 27.79 days = 92.63 20
 lost 53 " 05 " = 2.21 " = 7.37 20
 Avg. Net Bank = 40 ft.
 Depth = 14.9 -
 Total = 18.9 -

(5.0)

Surface

7321

6911

410

7728

7321

407

409 x 17.67 =

7227

Sq. Yds.

Bedrock

8108

7717

391

8500

8108

392

392 x 17.67 =

6927

Sq. Yds.

Avg Area =

7077

$$7077 \times \frac{6.3}{3} = 44585 \text{ Cu. Yds.}$$

$$\frac{44585}{30} = 1486 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{44585}{27.79} = 1604 \text{ - running -}$$

Pond Elev - 2063.0

Claims dredged - A1A, A1, Sulphur

Surface Area - 1.49 Acres. ✓

Avg Width - 200'

Length - 330'

7227	6927	7077
9	9	9
65043	62343	63693

Thaw W/O

Block # 69 - Remainder

= 14354 Cu Yds.

- # 70 - ✓

= —

- # 71 - $240 \times 240 \times 15.8$
15.8

= 35111 ✓

- # 72 - $90 \times 240 \times 20.2$
20.2

= 14103 ✓

Total = 63568 ✓

Strip W/O

X2 585-586 - Remainder

= 8635 Cu Yds.

586-587 - ✓

= 10444 ✓

587-588 - ✓

= 12307 ✓

Total = 31384 ✓

DREDGE # 9

JUNE 1960

Dredge Operated 30 days
 ✓ Dug 643 hrs. 55 min. = 26.83 days = 89.43%
 ✓ Lost 76 ✓ 05 ✓ = 3.17 ✓ = 10.57%
 Avg. hgt of bank = 4.8 ft
 ✓ Depth = 13.1 ✓
 Total ✓ = 17.9 ✓

(3.7)

Surface 4466 5059
 3880 4466
 586 ✓ 593 ✓
 $590 \times 17.67 = 10,425$ Sq. Yds.

Bedrock 5646 6237
 5054 5646
 592 ✓ 591 ✓
 $592 \times 17.67 = 10,461$ Sq. Yds.

3481
 $10,443 \times 17.9$
 3
 62,310 Cubic Yards. Avg. Area =

$\frac{10,461}{2} = 5,230.5$
 $\frac{10,443}{2} = 5,221.5$

$\frac{62,310}{30} = 2,077$ Cubic Yards per day Elapsed time

$\frac{62,310}{26.83} = 2,322$ ✓ ✓ ✓ ✓ Running ✓

Pond Elev 2063.8 ft.

Claims dredged = AIA S.

Surface Area = 2.15 acres. ✓

Avg width = 220'

✓ Length = 450'

10,425
 9
 93,825 ✓

10,461
 9
 94,149 ✓

10,443
 9
 93,987 ✓

Thaw W/O

$$\text{Block \# 71} - \frac{210 \times 140 \times 15.8}{27} = 17204 \text{ C.Y.D.S.}$$

$$\text{Block \# 72} - \frac{82809}{\text{Remainder}} - \frac{60 \times 100 \times 20.2}{27} = 78320 \checkmark$$

$$\text{\# 74} - \frac{240 \times 90 \times 22.7}{27} = 18160 \checkmark$$

$$\text{Total} = 113684 \checkmark$$

Strip W/O

$$\text{\# 588-589} - \text{Remainder} = 18903 \text{ C.Y.D.S.}$$

$$589-590 - 75\% \checkmark = 12723 \checkmark$$

$$590-591 - 40\% \checkmark = 5772 \checkmark$$

$$591-592 - 20\% \checkmark = 3239 \checkmark$$

$$\text{Total} = 40637 \checkmark$$

DREDGE # 9 JULY 1960

Dredge Operated 31 days

✓ Dug - 677 hrs. Omin - 28.21 days - 91%
 ✓ Lost - 67 ✓ 0 ✓ 2.79 ✓ 9.00%

Avg hgt. of bank - 4.2 ft.

✓ Depth - 14.3 ✓

Total ✓ - 18.5 ✓

(4.5)

Surface

10719

9855

864 ✓

1576

0719

857 ✓

861 × 17.67 =

15,214

Sq. yards

Bedrock

2410

1571

839 ✓

3250

2410

840 ✓

840 × 17.67 =

14,843

Sq. yards.

2) 30,057 ✓

Avg. area = 15,029 ✓

$$\frac{15,029 \times 18.5}{3} = 92,679 \text{ Cubic Yards}$$

$$\frac{92,679}{31} = 2,990 \text{ Cubic yards per day Elapsed time}$$

$$\frac{92,679}{28.21} = 3,285 \text{ Running ✓}$$

Pond Elev. - 2068.9

Claims dredged - A2 A1A Sulphur

Surface area - 3.14 acres.

Avg. width of cut - 200'

✓ Length ✓ - 670'

15,214

9

136,926 ✓

14,843

9

133,587 ✓

15,029

9

135,261 ✓

Thaw W/O

Block # 71 - Remainder

= 30150 Cu.Yds.

✓ # 72 - ✓

= 4489 ✓

✓ # 73 - $340 \times 290 \times 17.1$
17.1

= 62446 ✓

✓ # 74 - $115 \times 120 \times 22.7$
22.7

= 11602 ✓

Total = 108687 ✓

Strip W/Ox² 589-590 - Remainder

= 4241 Cu.Yds.

590-591 - ✓

= 8628 ✓

591-592 - ✓

= 12954 ✓

592-593 - 1/2 ✓

= 9628 ✓

593-594 - 1/3 ✓

= 6743 ✓

Total = 42224 ✓

DREDGE N° 9 AUGUST 1960

Dredge Operated 31 days

✓ Dug - 684 hrs. 20 min. = 28.51 days = 91.98 %
 ✓ Lost - 59 ✓ 40 ✓ = 2.49 ✓ = 8.02 %
 Avg. hgt. of bank - 4.6 ft.
 ✓ depth - 13.1 ✓
 Total ✓ - 17.7 ✓

(4.5)

Surface

9253
 8428
 825 ✓

0077
 9253
 824 ✓

 $825 \times 17.67 = 14,578 \text{ Sq. yds.}$
Bedrock

0871
 0062
 809 ✓

1682
 0871
 811 ✓

 $810 \times 17.67 = 14,313 \text{ Sq. yds.}$
 $2 \overline{) 28,891}$
 $\text{Avg. area} = 14,446$

$$\frac{14,446 \times 5.9}{3} = 85,231 \text{ Cubic yards}$$

$$\frac{85,231}{31} = 2,749 \text{ Cubic yards per day Elapsed time}$$

$$\frac{85,231}{28.51} = 2,990 \text{ Running}$$

Pond Elev. 2073.4

Claims dredged A1A, A2 Sulphur

Surface area 3.01 acres

Avg. width of cut - 200'

✓ Length ✓ - 660'

14,578
 9
 131,202 ✓

14,313
 9
 128,817 ✓

14,446
 9
 130,014 ✓

Draw W/O

$$\text{Block \# 73} - \frac{390 \times 55 \times 17.1}{27} = 13585 \text{ Cu. Yds.}$$

$$\text{Block \# 74} - \text{Remainder} = 88830 \quad \checkmark$$

$$\text{Total} = 102415 \quad \checkmark$$

Strip W/O

$$\text{St 592-593} - \text{Remainder} = 9627 \text{ Cu. Yds.}$$

$$593-594 - 3/4 \quad \checkmark = 8091 \quad \checkmark$$

$$594-595 - 1/2 \quad \checkmark = 9543 \quad \checkmark$$

$$595-596 - 1/2 \quad \checkmark = 7982 \quad \checkmark$$

$$\text{Total} = 35243 \quad \checkmark$$

Dredge No 9

Sept 1960

Dredge operated 30 days

✓ dug 6 hrs. 25 min = 27.6 days = 92.00 To

✓ lost 57 - 31 - 240 - 8.00 To

Avg Hgt Bank = 4.1 ft

✓ Depth = 17.0 ✓

Total = 21.1 ✓

(4.6)

Surface

9645

0303

8986

9645

659 ✓

658 ✓

= 65.9 × 17.67 =

11,645 ✓

Sq. Yds.

Bedrock

0991

1633

0352

0991

639 ✓

642 ✓

= 641 × 17.67 =

11,326 ✓

Sq. Yds.

2 22,971 ✓

Avg. area =

11,486 ✓

✓ ✓

$$\frac{11,486 \times 21.1}{3} = 80,785 \text{ Cubic Yards}$$

$$\frac{80,785}{30} = 2,693 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{80,785}{27.60} = 2,927 \text{ Running}$$

Pond Elev. - 2076.2
 Claims dredged - A2, A3 Sulphur
 Surface Area - 2.41 acres
 Avg Width - 200'
 Length - 520'

$$\begin{array}{r} 11,645 \\ 9 \\ \hline 104,805 \end{array} \checkmark$$

$$\begin{array}{r} 11,326 \\ 9 \\ \hline 101,934 \end{array} \checkmark$$

$$\begin{array}{r} 11,486 \\ 9 \\ \hline 103,374 \end{array} \checkmark$$

Shaw w/o

Block # 73 - Remainder = 34560 Cords.

$$\begin{array}{r} \text{# 75} \\ 19.9 \end{array} - \frac{320 \times 175 \times 19.9}{22} = 41274 \checkmark$$

Total = 75834 ✓

Strip w/o

X2 593-594 - Remainder = 5395 Cords.

594-595 - ✓ = 954 ✓

595-596 - ✓ = 7981 ✓

596-597 - $3/5$ ✓ = 6324 ✓597-598 - $3/10$ ✓ = 3119 ✓

Total = 32361 ✓

Dredge N: 9

October 1960

Dredge operated 31 days

✓ dug 684 hrs. 15 min = 28.5 days = 91.57 %

✓ lost 59 ✓ 45 ✓ = 2.49 ✓ = 8.03 %

Avg Hgt Bank = 4.3 Ft

✓ Depth = 13.1 ✓

Total = 17.4 -

(3.8)

Surface~~8578~~

9286

9992

~~7858~~

8578

9286

~~720~~

708 ✓

706 ✓

707 × 17.67 = 12,493 ✓ Sq. Yds.

Bedrock

0673

1378

9965

0673

708 ✓

705 ✓

707 × 17.67 = 12,493 ✓ Sq. Yds.

5.8

 $\frac{12,493 \times 17.4}{3} = 72,459$ ✓ Cubic Yards.

Avg. area = 12,493 ✓ ✓

 $\frac{72,459}{31} = 2,337$ ✓ Cubic Yards per day Elapsed time $\frac{72,459}{28.51} = 2,542$ ✓ Running ✓

Pond Elev - 2077.2
 Claims dredged - A2, A3 Sulphur
 Surface Area - 2.58 acres.
 Avg width - 200
 Length - 560'

$$\begin{array}{r} 12,493 \\ 9 \\ \hline 112,437 \end{array}$$

$$\begin{array}{r} 12493 \\ 9 \\ \hline 112,437 \end{array}$$

$$\begin{array}{r} 12493 \\ 9 \\ \hline 112,437 \end{array}$$

Thaw W/O

$$\frac{\text{Block \# 75}}{19.9} - \frac{160 \times 45 \times 19.9}{27} = 5307 \text{ Cu. Yds.}$$

Strip W/O

$$\sqrt[3]{596-597} = \frac{1}{4} \text{ Remainder} = 1054 \text{ Cu. Yds.}$$

$$597-598 = 5\% = 364$$

$$\text{Total} = 1418$$

Dredge No 9

November 1960
Shut down Nov 9 - 6:00 p.m.

Dredge operated 8 days

✓ Aug 181 hrs. 30 min = 7.56 days = 94.53%

✓ Lost 10 - 30 - 0.441 ✓ = 5.47%

Avg. Hat Bank = 6.0 Ft.

✓ Depth = 15.3 ✓

Total ✓ = 21.3 ✓

(2.4)

Surface

4736

4687

49 ✓

4781

4736

45 ✓

47 × 17.67 =

830 ✓

Sq. Yds.

Bedrock

4831

4781

50 ✓

4879

4831

48 ✓

49 × 17.67 =

866 ✓

Sq. Yds.

2) 1696

Avg. area = 848 ✓

✓ ✓

$$848 \times \frac{7.1}{21.3} = 6,021 \text{ Cubic Yards.}$$

$$\frac{6,021}{8} = 753 \text{ Cubic Yards per day Elopsed time}$$

$$\frac{6,021}{7.56} = 796 \text{ Running ✓}$$

Pond Elev 2077.7

Claims dredged A3 Sulphur

Surface Area 0.17 acre.

Avg. Width of cut 200

✓ Length ✓ ✓ 45

$$\begin{array}{r} 830 \\ 9 \\ \hline 7470 \end{array}$$

$$\begin{array}{r} 866 \\ 9 \\ \hline 7794 \end{array}$$

$$\begin{array}{r} 848 \\ 9 \\ \hline 7632 \end{array}$$

Thaw W/O

$$\text{Block \# 75} - \frac{180 \times 100 \times 19.9}{19.9} = 7266 \text{ CuYds.}$$

$$\text{Block \# 76} - \frac{180 \times 150 \times 22.2}{22.2} = 34533$$

$$\text{Total} = 41799 \checkmark$$

Strip W/O

$$\text{X? 596-597 - Remainder} = 3162 \text{ CuYds.}$$

$$597-598 - 3/4 \checkmark = 5184$$

$$598-599 - 1/4 \checkmark = 2827$$

$$\text{Total} = 11173 \checkmark$$

DREDGE No 9

MAY 1961 Started
MAY 1 - 4:00 PM

DREDGE OPERATED 31 Days
 ✓ DUG 689 hrs. 0 min = 28.71 days = 92.61 %
 ✓ LOST 55 ✓ 0 ✓ = 2.29 - = 7.39 %
 AVG HGT. OF BANK 6.7 Ft.
 ✓ DEPTH 17.5 -
 TOTAL ✓ 24.2 ✓

(2.8)

SURFACE

8307	8588
8021	8307
286 ✓	281 ✓

AVG. = $284 \times 17.67 = 5,018$ Sq Yds

BEDROCK

8856	9132
8585	8856
271 ✓	276 ✓

AVG. = $274 \times 17.67 = 4,842$ Sq Yds

2) 9,860

AVG. = 4,930

$\frac{4930 \times 24.2}{3} = 39,769$ Cubic Yards

$\frac{39,769}{31} = 1,283$ Cubic Yards per day Elapsed time

$\frac{39,769}{28.71} = 1,385$ Running ✓

POND ELEV 2082.4

CLAIMS DREDGED A3A, A4 SULPHUR

SURFACE AREA 1.04 ACRES. ✓

AVG. LENGTH 200'

✓ WIDTH 200'

5018	4842	4930
9	9	9
45,162 ✓	43,576 ✓	44,370 ✓

Thaw W/O

$$\text{Block \#75} - \frac{6460}{6170} \frac{6757}{6460} \times 94 \times 17.67 \times \frac{19.9}{3} = 34447 \text{ Cu.Yds}$$

5.89

$$\text{\#76} - \frac{135 \times 120 \times 22.2}{27} = 13320 \checkmark$$

$$\text{Total} = 47767 \checkmark$$

Strip W/O

$$\text{\#2 597-598} - \frac{1}{4} \text{ Remainder} = 865 \text{ Cu.Yds.}$$

$$598-599 - \frac{1}{3} = 5654 \checkmark$$

$$599-600 - \frac{3}{4} = 6714 \checkmark$$

$$\text{Total} = 13233$$

Dredge No 9

June 1961

Dredge operated 30 days

✓ dug 669 hrs ✓ 0 min = 27.91 days = 93.03 %

✓ lost 50 - 10 - 2.09 = 6.97 %

Avg. Net Depth = 4.8 ft.

✓ Depth = 15.8 -

Total = 20.6 -

(1.8)

$$\begin{array}{r} \text{Surface} \quad 7248 \quad 7617 \\ - 6895 \quad - 7260 \\ \hline 353 \quad 357 \end{array}$$

$$355 \times 17.67 = 6273 \quad \checkmark \quad \text{Sq. Yds}$$

$$\begin{array}{r} \text{Bedrock} \quad 8341 \quad 8708 \\ - 8000 \quad - 8368 \\ \hline 341 \quad 340 \end{array}$$

$$341 \times 17.67 = 6026 \quad \checkmark$$

$$2 \overline{) 12299} \quad \checkmark$$

$$\text{Avg. Area} = 6150 \quad \checkmark$$

$$+050 \quad \checkmark$$

$$6150 \times \frac{20.6}{3} = 42,230 \text{ Cu. Yds.}$$

$$\frac{42,230}{30} = 1408 \quad \checkmark \quad \text{Cu. Yds. per day elapsed time}$$

$$\frac{42,230}{27.91} = 1513 \quad \checkmark \quad \text{running}$$

Pond Elev - 1080.2
 Claims dredged - 2 1/2 A Ab. Disc Sulph.
 Surface Area - 1.30 Acres
 Avg width - 145 ft.
 Length - 350 -

$$\begin{array}{r} 6273 \\ 9 \\ \hline 56457 \end{array} \quad \begin{array}{r} 6026 \\ 9 \\ \hline 54234 \end{array} \quad \begin{array}{r} 6150 \\ 9 \\ \hline 55350 \end{array}$$

Thaw W/O

Block # 75 - Remainder

$= 50130 \text{ CuYds}$

$$\begin{array}{r} \# 77 - 280 \times 160 \times 18.0 \\ \hline 27 \end{array}$$

$= 29867 \quad \checkmark$

$$\begin{array}{r} \# 78 - 80 \times 160 \times 19.0 \\ \hline 27 \end{array}$$

$= 9007 \quad \checkmark$

$$\begin{array}{r} \# 76 - 85 \times 20 \times 22.2 \\ \hline 27 \end{array}$$

$= 2097 \quad \checkmark$

$\text{Total} = 91101 \quad \checkmark$

Strip W/O

597-98 - Remainder

$= 864 \text{ CuYds}$

$98-99 \quad \checkmark$

$= 2827 \quad \checkmark$

$99-600 \quad \checkmark$

$= 2475 \quad \checkmark$

$600-601 \quad \checkmark$

$= 9215 \quad \checkmark$

$601-602 \quad 4/5 \quad \checkmark$

$= 7612 \quad \checkmark$

$602-603 \quad 1/5 \quad \checkmark$

$= 1461 \quad \checkmark$

$\text{Total} = 26450 \quad \checkmark$

Dredge No: 9

July 1961

Dredge operated 31 days

dug 689 hrs. $\sqrt{\sqrt{\text{min}}} = 28.75 \text{ days} = 92.73 \text{ } ^\circ$ lost $\sqrt{\sqrt{\text{or}}} = 2.25 = 7.27 \text{ } ^\circ$

Avg Hgt Bank = 3.6 Ft.

Depth = 13.5 -

Total = 17.1 -

(3.0)

$$\begin{array}{r} \text{Surface} \quad 7539 \\ - 6840 \\ \hline 699 \end{array} \quad \begin{array}{r} 8357 \\ - 7660 \\ \hline 697 \end{array}$$

$$698 \times 17.67 = 12,334 \text{ Cu. Yds}$$

$$\begin{array}{r} \text{Bedrock} \quad 1126 \\ - 0466 \\ \hline 660 \end{array} \quad \begin{array}{r} 1927 \\ - 1269 \\ \hline 658 \end{array}$$

$$659 \times 17.67 = 11,645 \text{ Cu. Yds.}$$

$$2 \text{ } \underline{123,989}$$

$$\text{Avg. Area} \quad 11,995$$

$$\frac{3,998}{11,995} \times \frac{17.1}{3} = 68,366 \text{ Cu. Yds.}$$

$$\frac{68,366}{31} = 2,205 \text{ Cu. Yds per day elapsed time}$$

$$\frac{68,366}{28.75} = 2,378 \text{ Cu. Yds running}$$

Pond Elev - 2085.6

Claims dredged - Upper + Lower + 4 Above Sills

Surface Area - 2.55 Acres.

Avg Width - 245 Ft.

Length - 465 -

$$\begin{array}{r} 12334 \\ 9 \\ \hline 111006 \end{array} \quad \begin{array}{r} 11645 \\ 9 \\ \hline 104805 \end{array} \quad \begin{array}{r} 11989 \\ 9 \\ \hline 107901 \end{array}$$

Thaw W/O

Block #76 - Remainder

= 1098 ✓ CYS.

$$\begin{array}{r} \#77 - 150 \times 375 \times 18.0 \\ 18.0 \end{array}$$

= 32500 ✓

#78 - Remainder

= 46834 ✓

 Total = 90316 ✓
Strip W/O

601-602 - Remainder

= 1903 CYS.

602-603 ✓

= 5846 ✓

603-604 ✓

= 5278 ✓

604-605 ✓

= 4363 ✓

605-606 ✓

 = 4334 ✓

Total = 22724 ✓

Dredge No 9

Aug. 1961

Dredge operated 31 days

Dug 683 hrs. 35 min - 28.48 days = 91.88 %

lost 60 - 25 - 2.57 - 8.12 %

Avg Wet Bank = 3.0 ft

Depth = 15.0

Total = 18.0

3.1

Surface

6072
-5471
601

6706
6107
599

600 x 17.67 = 10,602

Bedrock.

7301
-6730
571

7901
-7328
573

572 x 17.67 = 10,107

2 20,709

Avg. Area.

10,355

$10,355 \times \frac{6.0}{3} = 62,130$ Cu. Yds.

$\frac{62,130}{31} = 2004$ Cu. Yds. per day elapsed time

$\frac{62,130}{28.48} = 2181$

running

Pond Elev - 2089.8

Claims dredged - 445 lbs. Sulfur

Surface Area - 2.19 Acres

Avg width - 20 ft

Length - 415 -

10602
9

10107
9

10355
9

95418

90963

93195

Thaw W/O

Block # 77 - Remainder

= 22233 Cu. Yds.

✓ #79 - $210 \times 315 \times 21.0$
21.0

= 53500 -

✓ #80 - $300 \times 80 \times 19.0$
19.0

= 16888 -

Total = 93021 ✓

Strip W/O

x3 606-607 - Remainder

= 12028 Cu. Yds

607-608 - ✓

= 1608 ✓

608-609 - ✓

= 10014 -

Total = 38644 -

Dredge No 9

Sept 1961

Dredge operated 30 days

Dug 658 hrs. 5 min = 27.45 days = 91.52%

Lost 41 - 05 - = 2.15 - = 8.48%

Avg Net wt = 2.4 ft.

Depth = 14.8 -

Total = 17.2 -

(2.8)

Surface

$$\begin{array}{r} 5702 \\ - 5141 \\ \hline 561 \end{array}$$

$$\begin{array}{r} 6286 \\ - 5725 \\ \hline 561 \end{array}$$

$$561 \times 17.67 = 9,913 \text{ cu yds}$$

$$522 \times 17.67 = 9,224$$

$$2 \overline{) 19,137}$$

$$\text{Avg. Area } 9,569$$

Bedrock

$$\begin{array}{r} 7367 \\ - 6846 \\ \hline 521 \end{array}$$

$$\begin{array}{r} 8646 \\ - 8123 \\ \hline 523 \end{array}$$

$$\begin{array}{r} 3,190 \\ 9,569 \times 17.2 = 54,868 \text{ Cu Yds.} \\ \hline 3 \end{array}$$

$$\frac{54,868}{30} = 1,829 \text{ Cu Yds. per day elapsed time}$$

$$\frac{54,868}{27.45} = 1,999 \text{ Cu Yds running}$$

Pond Elev.

- 2090.8

Claims Dredged

- S. V. A. H. D. S. Sulphur

Surfaces Area

- 2.05 Acres

Avg width

- 270 ft

Length

- 315 -

9913

9224

9569

9

9

9

89217 ✓

83016 ✓

86121 ✓

than W/o

Block #79 -	Remainder	= 35278 Cu. Yds.
✓ - 80 -	✓	= 8964 -
✓ - 81 -	$\frac{230 \times 210 \times 20}{27}$	= 35777 -
Total =		80019 -

Strip W/o

X2 609 - 610 -	Remainder	= 9926 Cu. Yds
610 - 611 -	-	= 10719 -
611 - 612 -	✓	= 6126 -
612 - 613 -	✓	= 4626 -
613 - 614 -	-	
Total =		31427 ✓

Dredge No 9.

Oct. 1961.

Dredge operated 31 days.

✓ dug 674 hrs. 35 min = 28.11 days = 90.67%

✓ lost 69 ✓ 25 ✓ = 2.89 ✓ = 9.33%

Aug. Hgt. Bank = 1.7 ft.

Depth = 15.1 ✓

Total ✓ 16.8 ✓

(2.7)

$$\begin{array}{r} \text{Surface} \quad 3572 \\ \quad \quad \quad - 2883 \\ \hline \quad \quad \quad 689 \checkmark \end{array} \quad \begin{array}{r} 4341 \\ \quad \quad \quad - 3649 \\ \hline \quad \quad \quad 692 \checkmark \end{array}$$

$$691 \times 17.67 = 12,210 \text{ Sq Yds}$$

$$\begin{array}{r} \text{Bedrock} \quad 7702 \\ \quad \quad \quad - 7060 \\ \hline \quad \quad \quad 642 \checkmark \end{array} \quad \begin{array}{r} 7439 \\ \quad \quad \quad - 7793 \\ \hline \quad \quad \quad 646 \checkmark \end{array}$$

$$644 \times 17.67 = 11,380 \checkmark$$

$$2 \quad [23,590 \checkmark]$$

$$\text{Avg. Area} = 11,795 \text{ Sq. Yds.}$$

$$\begin{array}{r} 3932 \\ 11,795 \\ \hline 3 \end{array} \times 16.8 = 66,058 \checkmark \text{ Cu. Yds.}$$

$$\frac{66,058}{31} = 2,131 \checkmark \text{ Cu. Yds. per day elapsed time}$$

$$\frac{66,058}{28.11} = 2,350 \checkmark \text{ Running}$$

Pond Elev.

Claims dredged - 5 A-6 A Ab. Disc. Sulph

Surface Area - 2.52 Acres

Avg. Width - 270 Ft.

✓ Length - 410 ✓

$$\begin{array}{r} 12210 \\ \quad \quad 9 \\ \hline 109890 \end{array}$$

$$\begin{array}{r} 11380 \\ \quad \quad 9 \\ \hline 102420 \end{array}$$

$$\begin{array}{r} 11795 \\ \quad \quad 9 \\ \hline 106155 \end{array}$$

Then W/O

$$\text{Block \#81} - \frac{512 \times 20.0}{3}$$

$$= 3413 \text{ Cu.Yds.}$$

Strip W/O

$$x^{12} 613.614 - \frac{1}{4} \text{ Remainder}$$

$$= 143 \checkmark$$

Dredge # 9

November 1961
Shutdown Nov 7 - 9:30 AM

Dredge operated 6 days

dug 90 hrs. 45 min = 3.78 days = 63.02 D
 lost 53 N = 2.77 = 36.98 D
 Avg Hgt Bank = 2.8 ft
 Depth = 14.6
 Total = 17.4 (3.4)

$$\text{Surface} - \frac{0682}{0669} \quad \frac{0712}{0682} \quad \frac{0739}{0712} \quad 29 \times 17.67 = 512 \quad 59 \times 15$$

$$\text{Bedrock} - \frac{0759}{0733} \quad \frac{0783}{0759} \quad 25 \times 17.67 = 442 \quad 2 \times 954$$

$$\text{Avg Area} = 477$$

$$477 \times 17.4 = 8276.7 \text{ Cu. Yds}$$

$$\frac{8276.7}{6} = 1379.45 \text{ Cu. Yds per day elapsed time}$$

$$\frac{8276.7}{3.78} = 2189.63 \text{ running}$$

Pond Elev

Claims dredged - 6A Ph. Disc Sulphur

Surface Area = 0.11 Acres

Avg Width = 200 ft.

Length = 20

$$\begin{array}{r} 512 \\ 9 \\ \hline 4608 \end{array} \quad \begin{array}{r} 442 \\ 9 \\ \hline 3978 \end{array} \quad \begin{array}{r} 477 \\ 9 \\ \hline 4293 \end{array}$$

Thaw W/O

$$\text{Block \#81} - \frac{205 \times 76 \times 200}{27} = 11540 \text{ Cu Yds.}$$

Strip W/O

$$\text{y}^n 613-614 - \text{Remainder} = 11594 \text{ Cu. Yds.}$$

Dredge No 9.

May 1962
Started May 10 - 8:00 AM

Dredge Operated 22 days - 17 day for depth.
 ✓ dup 333 hrs 35 min = 13.90 days = 63.18%
 ✓ lost 194 ✓ 75 ✓ - 8.10 ✓ = 36.82%

Avg Hgt Bank = 2.8 Ft.
 ↓ Depth 15.6 ✓
 Total ✓ 18.4 ✓

(3.4)

Surface: 7174 7319 ✓
 7083 7227 ✓
 91 ✓ 92 ✓

92 × 17.67 = 1626 Sq. Yds. ✓

Bedrock: 7415 7511 ✓
 7335 7430 ✓
 80 ✓ 81 ✓

81 × 17.67 = 1431
2 [3057 ✓

Avg. Area: 1,529 Sq. Yards ✓

1529 $\frac{18.4}{3}$ = 9378 Cu. Yards ✓

$\frac{9378}{22}$ = 426 = Cu. Yards per day elapsed time ✓

$\frac{9378}{13.9}$ = 675 ✓ running ✓

Pond elevation 2090.9.
 Claims dredged LA Hb. Sulph.
 Surface area 0.34 Acres
 Avg. width, 200'
 Length, 90'

1626
9
14634

1431
9
12879

1529
9
13761

Thaw W/o

$$\text{Block \#81} - \text{Remainder} = 15590 \text{ Cull} \\ 19.0$$

$$\text{#82} - \frac{100 \times 75 \times 19.0}{19.0} = 5278$$

$$\text{#83} - \frac{55 \times 90 \times 19.0}{19.0} = 3483$$

$$\text{Total} = 24351$$

Strip W/o

$$\text{8" 614-615} - \text{Remainder} = 5537 \text{ Cull}$$

$$615-616 = 4889$$

$$616-617 = 5126$$

$$\text{Total} = 15552$$

Dredge No 9.

June 1962

Dredge operated 30 days.

✓ dug 6 hr hrs 10 min = 26.08 days = 86.92 %
 ✓ lost 94 - 10 - = 3.92 - = 13.08 %

Avg Hgt. Bank - 3.7 ft.

✓ Depth - 16.1 -

Total ✓ 19.3 ✓

(4.5)

$$\text{Surface : } \begin{array}{r} 2283 \\ 1874 \\ \hline 409 \end{array} \quad \begin{array}{r} 2784 \\ -2375 \\ \hline 409 \end{array}$$

$$409 \times 17.67 = 7,227 \text{ Sq. Ft.}$$

$$\text{Bedrock : } \begin{array}{r} 3210 \\ -2836 \\ \hline 374 \end{array} \quad \begin{array}{r} 3681 \\ -3305 \\ \hline 376 \end{array}$$

$$375 \times 17.67 = 6,626 \text{ Sq. Ft.}$$

$$2 \mid 13.853 \text{ ✓}$$

$$\text{Avg. Area} = 6,927 \text{ Sq. Ft.}$$

$$\begin{array}{r} 2309 \\ 6927 \times 19.3 \\ \hline 3 \end{array} = 44564 \text{ Cu Yds.}$$

$$\frac{44564}{30} = 1485 \text{ Cu. Yds per day elapsed time}$$

$$\frac{44564}{26.08} = 1709 \text{ ✓} \quad \text{— running —}$$

Pond Elev - 2095.3
 Claims dredged - 6 A Ab. Disb
 Surface Area - 1.49 Acres
 Avg width - 220 Ft.
 Length - 300 -

$$\begin{array}{r} 7227 \\ 9 \\ \hline 65043 \end{array} \quad \begin{array}{r} 6626 \\ 9 \\ \hline 59634 \end{array} \quad \begin{array}{r} 6927 \\ 9 \\ \hline 62343 \end{array}$$

thaw $\frac{1}{10}$

$$\begin{array}{r} \text{Block \# 82} - 410 \times 117 \times 19.0 \\ 19.0 \\ \hline \text{Block \# 83} - 380 \times 201 \times 19.0 \\ 19.0 \\ \hline \end{array}$$

$$= 33180 \text{ Cu. Yds.}$$

$$= 28078 \quad \checkmark$$

$$\text{Total} = 61258 \quad \checkmark$$

Strip $\frac{1}{10}$

$$\text{X's - 617-618 - Remainder}$$

$$= 4626 \text{ Cu. Yds.}$$

$$618-619 - \quad \checkmark$$

$$= 6037 \quad \checkmark$$

$$619-620 - \quad \checkmark$$

$$= 8070 \quad \checkmark$$

$$620-621 - \quad \checkmark$$

$$= 8426 \quad \checkmark$$

$$\text{Total} = 27159 \quad \checkmark$$

Dredge No 9

July 1962

Dredge operated 31 days

dug 677 hrs 40 min = 28.74 days = 91.08%

lost 66 = 20 = 2.76 = 8.92%

Hgt of Bank - 5.2 Ft.

Avg Depth - 14.3

Total - 19.5

(14.5)

Surface

$$\begin{array}{r} 4987 \\ - 4384 \\ \hline 603 \end{array}$$

$$\begin{array}{r} 5618 \\ 5019 \\ \hline 599 \end{array}$$

$$601 \times 17.67 = 10,620 \text{ Sq. Yards}$$

Bedrock

$$\begin{array}{r} 6181 \\ - 5614 \\ \hline 567 \end{array}$$

$$\begin{array}{r} 7691 \\ - 7122 \\ \hline 569 \end{array}$$

$$568 \times 17.67 = \frac{10,037}{2} = 20,657$$

Avg. Area: 10,329 Sq. Yards.

$$10,329 \times \frac{6.5}{3} = 67,138 \text{ Cu. Yards}$$

$$\frac{67,138}{31} = 2166 \text{ Cu. Yards per day elapsed time}$$

$$\frac{67,138}{28.24} = 2377 \text{ running}$$

Pond Elev - 2096.0
 Claims dredged - 6A+7A Above Twp.
 Surface area - 2.19 Acres
 Avg width - 83.5 ft
 length - 400

$$\begin{array}{r} 10620 \\ 9 \\ \hline 95580 \end{array} \quad \begin{array}{r} 10037 \\ 9 \\ \hline 90333 \end{array} \quad \begin{array}{r} 10329 \\ 9 \\ \hline 92961 \end{array}$$

Thaw W/O

Block #82 - Remainder

= 16820 Cuyds

✓ #83 - ✓

= 10813 ✓

✓ #84 - $\frac{240 \times 240 \times 21.0}{27}$

= 44800 ✓

✓ #85 - $\frac{135 \times 230 \times 19.0}{27}$

= 21850 ✓

Total = 94328 ✓

Strip W/O

✓ #621-622 - Remainder

= 11311 Cuyds.

622-623 - ✓

= 13663 ✓

623-624 - ✓

= 13281 ✓

624-625 - $\frac{1}{2}$ ✓

= 6758 ✓

Total = 45013 ✓

Dredge No 9

Aug 1962

Dredge operated 31 days

Dug 66 hrs. 05 min = 27.75 days = 89.53%

Lost 77 - 55 - 3.25 = 10.47%

Avg Net Depth = 4.1 ft.

Depth = 13.9 -

Total = 18.0 -

(4.1)

$$\text{Surface} - \begin{array}{r} 04450 \\ 9710 \\ \hline 740 \end{array} \quad \begin{array}{r} 1068 \\ 04450 \\ \hline 618 \end{array} \quad \begin{array}{r} 1665 \\ 1068 \\ \hline 597 \end{array} \quad \begin{array}{r} 2265 \\ 1665 \\ \hline 600 \end{array} \quad 599 \times 17.67 = 10584 \text{ Cu.Yds.}$$

$$\text{Bedrock} - \begin{array}{r} 2410 \\ 1850 \\ \hline 560 \end{array} \quad \begin{array}{r} 2977 \\ 2410 \\ \hline 567 \end{array} \quad 564 \times 17.67 = 9966 \text{ Cu.Yds.}$$

$$\sqrt{20550}$$

$$\text{Avg Area} = 10275 \text{ sq. ft.}$$

$$\begin{array}{r} 10275 \times 180 \\ \hline 3 \end{array} = 61650 \text{ Cu.Yds.}$$

$$\frac{61650}{31} = 1989 \text{ Cu.Yds. per day elapsed time}$$

$$\frac{61650}{27.75} = 2222 \text{ - running -}$$

Pond Blot - 2109.6
 Claims dredged - 7A-8A above Sulph.
 Surface Area - 2.19 Acres
 Avg Width - 280 Ft.
 Length - 320 -

$$\begin{array}{r} 10584 \\ 9 \\ \hline 95256 \end{array} \quad \begin{array}{r} 9966 \\ 9 \\ \hline 89694 \end{array} \quad \begin{array}{r} 10275 \\ 9 \\ \hline 92475 \end{array}$$

than w/o

$$\text{Block \# 84} - \frac{275 \times 320 \times 21.0}{21.0} = 68444 \text{ Cu.Ft.}$$

$$\text{Block \# 85} - \text{Remainder} = 32762$$

$$\text{Total} = 101206$$

Strip w/o

$$12620 - 622 - \text{Remainder} = 6757 \text{ CYs}$$

$$622 - 626 = 13870$$

$$626 - 627 = 14193$$

$$\text{Total} = 34820$$

Dr #9

Sept 1962

Dredge operated 30 days

Avg 647 hrs. 35 min = 26.98 days = 89.94 %

Lost 72 = 25 = 3.02 = 10.06 %

Avg Net Bank = 2.5 ft.

Depth = 17.1

(3.8)

Total = 19.6

$$\text{Surface} - \begin{array}{r} 3429 \\ 2868 \\ \hline 561 \end{array} \quad \begin{array}{r} 3994 \\ 3429 \\ \hline 565 \end{array} \quad 563 \times 17.67 = 9948 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \begin{array}{r} 4531 \\ 3987 \\ \hline 544 \end{array} \quad \begin{array}{r} 5065 \\ 4531 \\ \hline 534 \end{array} \quad 539 \times 17.67 = 9524$$

$$\sqrt{19472}$$

$$\text{Avg Area} = 9736$$

$$\frac{9736 \times 19.6}{3} = 63609 \text{ Cu. Yds.}$$

$$\frac{63609}{30} = 2120 \text{ Cu. Yds per day elapsed time}$$

$$\frac{63609}{26.98} = 2358 \text{ running}$$

Pond Elev = 2112.0
 Claims dredged = 8 A - 9 A Below Sulph.
 Surface area = 2.06 Acres
 Avg width = 370 ft.
 Length = 250 -

$$\begin{array}{r} 9948 \\ 9 \\ \hline 89532 \end{array} \quad \begin{array}{r} 9524 \\ 9 \\ \hline 85716 \end{array} \quad \begin{array}{r} 9736 \\ 9 \\ \hline 87624 \end{array}$$

Thaw W/O

Block # 84 - Remainder	=	—
✓ 85 - ✓	=	—
✓ 86 - $365 \times 100 \times 2.10 + 2917$	=	✓ 9694 Cuv

$$\begin{array}{r} 56777 \\ 2917 \\ \hline 59694 \end{array}$$

Strip W/O

X 2627-628 - Remainder	=	11867 Cuv
628-629 - ✓	=	12900 ✓
629-630 - 1/7 -	=	2580 ✓
Total		= 27347 ✓

Dredge No. 9

October 1962

Dredge operated, 31 days

Aug 689 hrs 15 min - 8.72 days = 92.62%

1008 54 - 45 - = 2.28 - = 7.36%

$$100\% \text{ rü} - 44\% = 56\% = 2.28 \text{ €} = 7.36 \text{ %}$$

Av. Hgt Bank = 2.7 ft.

Depth = 18.0

Total = 20.7 ✓

3.2

Surfaces

$$\begin{array}{r} 1432 \\ - 815 \\ \hline 617 \end{array}$$
$$616 \times 17.67 = 10,885 \text{ sq. yards}$$

Bedrock

$$\begin{array}{r} 2698 \\ - 2106 \\ \hline 592 \end{array} \quad \begin{array}{r} 3817 \\ - 2721 \\ \hline 596 \end{array}$$
$$599 \times 17.67 = \underline{10,496} \quad \checkmark \checkmark$$

2 / 21,38 1 ✓ - -

Aug. Area = 10,691 Sq. Yards

$$\frac{10,691 \times 6.9}{3} = 73,768 \text{ cu. Yards.}$$
$$\frac{73,768}{31} = 2380 \text{ Cu. Yds per day elapsed time}$$
$$\frac{73,768}{28.72} = 2569 \quad \text{running}$$

Pond Elev

Claims dredged - 9 Pb. Sulph.

Surface area = 2.25 Acres

Avg width - 390 ft

Length - 250 -

$$\begin{array}{r} 1088\checkmark \\ 9 \\ \hline 9796\checkmark \end{array}$$
$$\begin{array}{r} 10496 \\ 9 \\ \hline 94464 \end{array}$$
$$\begin{array}{r} 10691 \\ 9 \\ \hline 96219 \end{array}$$

Thaw W/O

Block No 86 -
21.0

$$3675 \times \frac{270}{3}$$

= 257250 Cwds.

Strip W/O

126-630

- $\frac{2}{3}$ Remainder

= 10314 Cwds

630-631

- $\frac{1}{7}$ -

= 2915

13229

Dredge No. 9

November 1962
Shut down for season Nov 17-10:00 AM

Dredge operated 16 days

✓ dug 35 hrs. 25 min = 14.68 day = 91.78 %

- lost 31 - 85 = 1.32 = 8.22 %

Avg Hgt Bank = 3.2 Ft.

✓ Depth = 18.7 -

Total = 21.9 -

(3.9)

Surface

1500

-1292

208 ✓

1754

-1547

207 ✓

208 x 17.67 = 3675 Sq. Yards ✓

Bedrock

1945

-1749

196 ✓

2615

-2420

195 ✓

196 x 17.67 = 3463 ✓

217138

Avg. Area 3569 Sq. Yards ✓

$$\begin{array}{r} 7.8 \\ 3569 \times 31.9 \\ \hline 3 \end{array}$$

$$\begin{array}{r} >6054 \\ 25,340 \\ \hline \end{array} \text{ Cu. Yards}$$

$$\begin{array}{r} >6054 \\ 25,340 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 16.28 \\ 1,584 \\ \hline \end{array} \text{ Cu. Yards per day elapsed Time}$$

$$\begin{array}{r} >6054 \\ 25,340 \\ \hline 14.68 \end{array}$$

$$\begin{array}{r} 17.75 \\ 1726 \\ \hline \end{array} \text{ Cu. Yards } \checkmark \checkmark \text{ running } \checkmark$$

Pond Elev. - Ice

Claims dredged - 9+10 Pk. Disc Sulph.

Surface area - 0.76 Acres

Avg width - 385 Ft.

Length - 100 ✓

$$\begin{array}{r} 2675 \\ 9 \\ \hline 33075 \end{array}$$

$$\begin{array}{r} 3463 \\ 9 \\ \hline 31167 \end{array}$$

$$\begin{array}{r} 3569 \\ 9 \\ \hline 32121 \end{array}$$

Thaw W/O

$$\text{Block \#87} - \frac{140 \times 90 \times 75.0}{75.0} = 2833 \text{ Cudds}$$

$$\text{\#86} - \frac{345 \times 115 \times 21.0}{21.0} = 30858 \quad \checkmark$$

$$\text{Total} = 36691 \quad \checkmark$$

Strip W/O

$$\text{\#} 629-630 - \frac{1}{4} \text{ Remainder} = 1289 \text{ Cudds.}$$

$$630-631 - \frac{3}{4} \quad \checkmark$$

$$= 13119 \quad \checkmark$$

$$\text{Total} = 14408 \quad \checkmark$$

Dredge No 9 - May 1963
 started bailing 1st May 4-8 AM
 digging May 9 - 8:00 AM.

Dredge operated 23 days

Aug 107 hrs. 50 min = 21.16 days = 92.00 Do

lost 44 - 10 - 1.84 = 8.00 Do

Avg Wet Bank = 3.7 ft.

Depth = 17.8

Total = 21.5

(4.0)

Surface - $\frac{9016}{8680} \quad \frac{9344}{9016} \quad \frac{9684}{9344}$ $338 \times 17.67 = 5972 \text{ Sq Yds.}$
 $\frac{336}{329} \quad \frac{340}{327}$

Bedrock - $\frac{9988}{9678} \quad \frac{0309}{9988} \quad \frac{0636}{0309}$ $324 \times 17.67 = 5725$
 $\frac{312}{321} \quad \frac{327}{327}$ $\frac{11697}{11697}$

Avg Area = 5849

$5849 \times \frac{7.17}{3} = 41937 \text{ Cu. Yds.}$

$\frac{41937}{23} = 1823 \text{ Cu. Yds. per day elapsed time}$

$\frac{41937}{21.16} = 1982 \text{ running}$

Pond Elev - 2087.2
 Claims dredged - 9A-10 No Sulph.
 Surface area - 1.23 Acres
 Avg width - 430 ft.
 Length - 115

$\frac{5972}{9} \quad \frac{5725}{9} \quad \frac{5849}{9}$
 $\frac{53748}{53748} \quad \frac{51525}{51525} \quad \frac{52641}{52641}$

Thaw W/O

Block #87 -	$150' \times 145' \times 22.0'$	=	22917	Cu.Yds.	
#86 -	Remainder	=	14343		-
#88 -	$290 \times 100 \times 22.0$	=	23630		-
#89 -	$190 \times 120 \times 26.0$	=	21955		✓
Total		=	82845		-

Strip W/O

X2 630-631 -	"1/2 Remainder	=	4000	Cu.Yds.	
631-632 -	9/10	=	18333		✓
632-633 -	9/10	=	18684		-
Total		=	41017		✓

Dredge No. 9

June 1963

Dredge operated 30 days

dug 658 hrs. 45 min = 27.42 days = 91.49 %

lost 61 " " " = 2.55 " = 8.51 %

Avg Hat Bank = 2.6 Ft. (4.7) Time in F.G. = 3.56 days

Depth = 19.0 " = 11.88 % of Elapsed Time

Total = 21.6 %

$$\begin{array}{r} \text{Surface} - \frac{9900}{9370} \quad \frac{0477}{9900} \quad \frac{1048}{0477} \\ \hline \sqrt{70} \quad \sqrt{71} \quad \sqrt{71} \end{array} \quad 571 \times 17.67 = 10090 \quad \checkmark$$

$$\begin{array}{r} \text{Bedrock} - \frac{1590}{1040} \quad \frac{2129}{1590} \quad \frac{2670}{2129} \\ \hline \sqrt{150} \quad \sqrt{39} \quad \sqrt{41} \end{array} \quad 540 \times 17.67 = 9542 \quad \checkmark$$

$$\text{Avg. Area} = \frac{10090 + 9542}{2} = 9816 \quad \checkmark$$

$$9816 \times \frac{7.2}{3} = 70675 \text{ Cu Yds.}$$

$$\frac{70675}{30} = 2356 \text{ Cu Yds. per day elapsed time}$$

$$\frac{70675}{27.45} = 2575 \quad \text{running} \quad \checkmark$$

Pond Elev = 2089.7

Claims dredged = 9 + 10 + 11 Sulph.

Surface Area = 2.08 Acres

Avg width = 480 Ft.

Length = 200 ✓

$$\begin{array}{r} 10090 \\ 9 \\ \hline 90810 \end{array} \quad \begin{array}{r} 9542 \\ 9 \\ \hline 85878 \end{array} \quad \begin{array}{r} 9816 \\ 9 \\ \hline 88344 \end{array}$$

Shank W/O

$$\text{Block \#89} - \frac{200 \times 215 \times 26.0}{26.0 \times 27} = 41407 \text{ Cu. Yds.}$$

$$\text{Block \#88} - \frac{200 \times 270 \times 22.0}{22.0 \times 27} = 44000 \quad \checkmark$$

$$\text{Total} = 85407$$

Strip W/O

$$\text{X# 632-633} - \frac{1}{6} \text{ Remainder} = 1730 \text{ Cu. Yds.}$$

$$633 - 634 - \frac{8}{9} \quad \checkmark = 19288 \quad \checkmark$$

$$634 - 635 - \frac{1}{2} \quad \checkmark = 9615 \quad \checkmark$$

$$\text{Total} = 30633 \quad \checkmark$$

Dredge No. 9.

July 1963

Dredge operated 31 days

Dug 670 hrs. 30 min = 27.94 days = 90.12 %
 Lost 73 " 30 " = 3.06 " = 9.88 %
 Avg Hgt Bank = 4.4 ft
 Depth = 19.3 " (4.8) Time in F.G. = 4.44 days
 Total = 23.7 " = 14.30 %

$$\text{Surface} - \frac{2636}{2056} \quad \frac{3217}{2636}$$

$$581 \times 17.67 = 10266 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{3790}{3217} \quad \frac{4317}{3790}$$

$$560 \times 17.67 = 9895$$

$$\text{Avg Area} = 10081$$

$$10081 \times \frac{7.9}{23.7} = 79640 \text{ Cu. Yds.}$$

$$\frac{79640}{31} = 2569 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{79640}{27.94} = 2850 \text{ running time}$$

Pond Elev. = 2088.3
 Claims dredged = 11 Ab. Sulph
 Surface area = 2.12 Acres
 Avg width = 500'
 Length = 185'

$$\begin{array}{r} 10266 \\ 9 \\ \hline 92394 \end{array} \quad \begin{array}{r} 9895 \\ 9 \\ \hline 89055 \end{array} \quad \begin{array}{r} 10081 \\ 9 \\ \hline 90729 \end{array}$$

Thave W/O

$$\text{Block \# 88} - \frac{10 \times 140 \times 22.0}{22.0} = 23951 \text{ Cu.Yds}$$

$$\text{Block \# 89} - \frac{285 \times 140 \times 26.0}{26.0} = 39794$$

$$\text{Total} = 63749$$

Strip W/O

$$\text{634-635} - \text{Remainder} = 9615 \text{ Cu.Yds}$$

$$635-636 - \checkmark = 15726 \checkmark$$

$$636-637 - \frac{1}{2} \checkmark$$

$$\text{Sub-Total} = 25341$$

$$= 5700$$

$$\text{Total} = 31041$$

Dredge No 9 August 1963

Dredge operated 31 days

Aug 690 hrs 20 min - 28.76 days = 92.79 %

lost 53 - 40 - = 2.24 - = 7.21 %

Avg Wet Bank = 6.8 ft.

Depth = 16.7 - (4.6) Time in 1st = 9.00 days = 9.72 %

Total = 23.5 %

$$\text{Surface} - \frac{3986}{3518} \quad \frac{4454}{3986} \quad 468 \times 17.67 = 8270 \quad \text{Cu. Yds.}$$

$$\text{Bedrock} - \frac{4926}{4450} \quad \frac{5393}{4926} \quad 471 \times 17.67 = 8322$$

$$\text{Avg Area} = \frac{16592}{8296}$$

$$8296 \times \frac{7.83}{3} = 64958 \quad \text{Cu. Yds.}$$

$$\frac{64958}{31} = 2095 \quad \text{Cu. Yds. per day elapsed time}$$

$$\frac{64958}{28.76} = 2259 \quad \text{running}$$

Pond Elev. - 2093.8
 Claims dredged - 11 Acs. Sulph.
 Surface Area - 1.71 Acres.
 Avg width - 500 ft
 Length - 140 -

$$\begin{array}{r} 8270 \\ 9 \\ \hline 74430 \end{array} \quad \begin{array}{r} 8322 \\ 9 \\ \hline 74898 \end{array} \quad \begin{array}{r} 8296 \\ 9 \\ \hline 74664 \end{array}$$

Thaw W/O

Block # 88 -	Remainder	=	155 Cuyds.
- # 89 -	✓	=	23490 -
- # 90 -	$115 \times 110 \times 20.0$ 20.0	=	9370 ✓
- # 91 -	$70 \times 280 \times 22.0$ 22.0	=	15970 ✓
		Total =	48985 ✓

Strip W/O

X# 636 - 637 -	Remainder	=	5700 Cuyds.
637 - 638 -	✓	=	7926 -
		Total =	13626 ✓

Dredge No 9 September 1963

Dredge operated 30 days

$$\begin{array}{r} \text{Dig 664 hrs. 45 min} = 27.70 \text{ days} = 92.33 \text{ } \checkmark \\ \text{Lost 55 } - 15 = 2.30 = 7.67 \text{ } \checkmark \end{array}$$

Avg. Wet Bank: 6.8 Ft.

$$\text{Depth} = 15.2 \quad (4.3) \quad \text{Time in F.B.} = 12.16 \text{ days.}$$

Total = 22.0

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 8795 \\ 8360 \\ \hline 435 \end{array} \quad \begin{array}{r} 9214 \\ 8795 \\ \hline 419 \end{array} \quad \begin{array}{r} 9638 \\ 9214 \\ \hline 424 \end{array} \quad 424 \times 17.67 = 7492 \text{ Sq. Yds.} \end{array}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 0115 \\ 9730 \\ \hline 385 \end{array} \quad \begin{array}{r} 0505 \\ 0115 \\ \hline 390 \end{array} \quad 388 \times 17.67 = \begin{array}{r} 6856 \\ \hline 14348 \end{array} \end{array}$$

$$\text{Avg. Area} = 7174 \checkmark$$

$$7174 \times \frac{7.33}{3} = 52585 \text{ Cu. Yds.}$$

$$\frac{52585}{30} = 1753 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{52585}{27.70} = 1898 \quad \text{— running —}$$

Pond Elev. — 2089.1

Claims dredged — 11 — 11 A Ab. Sulph.

Surface area — 1.55 Acres

Avg. width — 430 ft.

— Length — 150 —

$$\begin{array}{r} 7492 \\ .9 \\ \hline 67428 \end{array} \quad \begin{array}{r} 6856 \\ .9 \\ \hline 61704 \end{array} \quad \begin{array}{r} 7174 \\ .9 \\ \hline 64566 \end{array}$$

thru w/o

$$\text{Block \#90} - \frac{200 \times 115 \times 20.0}{20.0} = 17037 \text{ Cuyds.}$$

$$\text{Block \#91} - \frac{200 \times 200 \times 22.0}{22.0} = 44000$$

$$\text{Total} = 61037$$

Strip w/o

$$\text{X' 638-639 - Remainder} = 9981 \text{ Cuyds}$$

$$639-640 - = 11689$$

$$640-641 - \frac{1}{5} = \frac{1980}{23650}$$

Dredge No 9

October 1963

Dredge operated 31 days

Dug 674 hrs. 55 min. = 28.17 days = 90.71 %

lost 69 - 05 - = 2.88 - = 9.29 %

Avg Bot Band - 4.7 ft.

Dip 26 = 14.8

Total = 19.5

(4.3)

F.G. = 710 days

$$\begin{array}{r} \text{Surface} - \\ 4907 \\ - 4368 \\ \hline 539 \end{array}$$

$$\begin{array}{r} 6154 \\ 5617 \\ \hline 537 \end{array}$$

$$538 \times 17.67 = 9506 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \\ 6660 \\ - 6131 \\ \hline 529 \end{array}$$

$$\begin{array}{r} 7250 \\ - 6717 \\ \hline 533 \end{array}$$

$$531 \times 17.67 = 9382$$

$$\begin{array}{r} 18888 \\ \hline \end{array}$$

$$\text{Avg Area} = 9444$$

$$\begin{array}{r} 9444 \times 19.5 \\ \hline 185158 \end{array}$$

$$\frac{61386}{31} = 1980 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{61386}{28.17} = 2183 \text{ - running -}$$

Pond Elev. - 2091.9
Claims dredged - 11 A Hb. Disc.
Surface Area - 1.96 Acres
Avg Width - 355 Ft.
Length - 22 -

$$\begin{array}{r} 9506 \\ 9 \\ \hline 85554 \end{array} \quad \begin{array}{r} 9382 \\ 9 \\ \hline 84438 \end{array} \quad \begin{array}{r} 9444 \\ 9 \\ \hline 84996 \end{array}$$

Tham W/O

$$\text{Blak \#90} - \frac{120 \times 90 \times 20.0}{20.0}$$

$$= 8000 \text{ Cu Yds.}$$

$$\checkmark \text{ H 91} - \frac{100}{20.0} \times 75 \times 22.0$$

$$= \frac{6111}{14111}$$

Strip W/O

$$\text{X 640-BL1} - \text{Remainder}$$

$$= 7913 \text{ Cu Yds}$$

Dredge No 9

November 1963
Shut down for season Nov 14-8 am

Dredge operated 14 days

✓ dug 312 hrs. 41 min = 13.03 days = 93.08%

✓ lost 23 ✓ 15 ✓ = 0.97 ✓ = 6.95%

Avg Net Bank = 5.8 ft.

Depth = 14.4 ✓ (4.0) FG. 7.5 days

Total = 20.2 ✓

$$\text{Surface} - \frac{7535}{7404} \frac{7665}{7535} \quad 131 \times 1767 = 2315 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{7794}{7665} \frac{7919}{7794} \quad 129 \times 1767 = 2279$$

$$\frac{2279}{2297} \quad \text{Avg Area} = 2297$$

$$2297 \times \frac{6.73}{3} = 15459 \text{ Cu. Yds}$$

$$\frac{15459}{14} = 1104 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{15459}{13.03} = 1186 \quad \text{running}$$

Rand Elev - 2091.7
 Claims dredged - 11 A ab Sulph
 Surface Area - 0.47 Acres
 Avg width - 320 ft
 length - 70 ✓

$$\begin{array}{r} 2315 \\ 9 \\ \hline 20835 \end{array} \quad \begin{array}{r} 2279 \\ 9 \\ \hline 20511 \end{array} \quad \begin{array}{r} 2297 \\ 9 \\ \hline 20673 \end{array}$$

Thaw W/O

$$\text{Block \#91} - 530 \times \begin{array}{r} 7.33 \\ 22.0 \\ \hline 8 \end{array} = 3885 \text{ Cu. Yds.}$$

22.0

Strip W/O

$$X^2 641-642 - \frac{1}{10} \text{ Remainder} = 913 \text{ Cu. Yds.}$$

Dredge No 9

May 1964

Started bailing ice May 23-8:00 AM
Dredging - 27-8:00 AM

Dredge operated 5 days 5 for depth

- dug 113 hrs 35 min = 4.73 days = 94.65 %

- lost 6 - 25 - = 0.27 - = 5.35 %

Avg Nat Bank = 2.4 Ft.

- Depth = 16.2 - (3.6) F.G. 2.40 days

Total - = 18.6 ✓

Surface

$$\begin{array}{r} 5460 \\ - 5428 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 5488 \\ - 5460 \\ \hline 28 \end{array}$$

$$30 \times 17.67 = 530.3 \text{ Sq. Yds.}$$

Bedrock

$$\begin{array}{r} 6281 \\ - 6256 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 6305 \\ - 6281 \\ \hline 24 \end{array}$$

$$25 \times 17.67 = 442$$

$$- 972$$

$$\text{Avg Area} = 486$$

$$486 \times \frac{18.6}{3} = 3013 \text{ Cu. Yds.}$$

$$\frac{3013}{1} = 603 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{3013}{4.73} = 637 \text{ - running -}$$

Pond Elev.

- 2092.4

Claims dredged

- 11 Ab. Disc Sulph.

Surface area

- 0.11 Acres

Avg width

- 195 Ft

Length

- 15 ✓

$$\begin{array}{r} 530 \\ 9 \\ \hline 4770 \end{array}$$

$$\begin{array}{r} 442 \\ 9 \\ \hline 3978 \end{array}$$

$$\begin{array}{r} 486 \\ 9 \\ \hline 4374 \end{array}$$

Thaw W/O

Block No 90 - Remainder

= 12479 Cus

✓ 91 - ✓

= 21194 ✓

Total = 36973 ✓

Strip W/O

No 641-642 - Remainder

= 8217 Cus

642-643 - 3/4 ✓

= 6780 ✓

Total = 14997

Dredge # 9

June 1964

Dredge operated 30 days

- dug 66 hrs 10 min = 27.67 days = 92.25%

- lost 1 hr 10 min = 2.33 = 7.75%

Avg. Nat Bank = 3.7 ft.

- Depth = 15.3 - (3.6) 11.67 days in F.G.

Total = 19.0 - ✓

$$\text{Surface} - \begin{array}{r} 6515 \\ 6227 \\ \hline 288 \end{array} \quad \begin{array}{r} 6715 \\ 6515 \\ \hline 200 \end{array} \quad \begin{array}{r} 6993 \\ 6715 \\ \hline 278 \end{array} \quad 283 \times 17.67 = 5001 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \begin{array}{r} 7268 \\ 6990 \\ \hline 278 \end{array} \quad \begin{array}{r} 7535 \\ 7268 \\ \hline 267 \end{array} \quad 273 \times 17.67 = 4824 \quad \begin{array}{r} 4824 \\ 9825 \\ \hline \end{array}$$

$$\text{Avg. Area} = 4913 \quad -$$

$$4913 \times \frac{6.33}{8} = 31099 \text{ Cu. Yds}$$

$$\frac{31099}{30} = 1037 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{31099}{27.67} = 1124 \quad - \quad \text{running} \quad -$$

Pond Elev. = 2096.6

Claims dredged = 11A - 12 ab. Sulph.

Surface area = 1.03 Acres ✓

Avg. width = 285 Ft.

length = 150 -

$$\begin{array}{r} 5001 \\ 9 \\ \hline 45009 \end{array} \quad \begin{array}{r} 4824 \\ 9 \\ \hline 43416 \end{array} \quad \begin{array}{r} 4913 \\ 9 \\ \hline 44217 \end{array}$$

Thaw W/O

$$\text{Block \# 92} - \frac{300 \times 105 \times 21.0}{21.0 \times 27} = 24500 \text{ CuYds.}$$

$$\text{Block \# 93} - \frac{270 \times 140 \times 22.0}{22.0 \times 27} = 30800$$

$$\text{Total} = 55300$$

Strip W/O

$$\text{X}^2 \text{ 642-643} - \text{Remainder} = 2761 \text{ CuYds}$$

$$643-644 - - = 8863 \quad \checkmark$$

$$644-645 - - = 6744 \quad \checkmark$$

$$645-646 - \frac{1}{2} - - = 2000 \quad \checkmark$$

$$\text{Total} = 19872 \quad \checkmark$$

Dredge No 9

July 1964

Dredge operated 31 days

✓ dug 686 hrs. 40 min = 28.61 days = 92.29%

✓ lost 57 - 20 - = 2.39 - 7.71%

Avg Hgt Bank - 3.2 ft

Depth - 16.4 - (3.5) F.G. = 5.37 days

Total - 19.6 - ✓

Surface - $\begin{array}{r} 6528 \\ 6008 \\ \hline 520 \end{array}$ $\begin{array}{r} 7040 \\ 6528 \\ \hline 512 \end{array}$ $516 \times 17.67 = 9118 \text{ Sq Yds.}$

Bedrock - $\begin{array}{r} 7527 \\ 7039 \\ \hline 488 \end{array}$ $\begin{array}{r} 8005 \\ 7527 \\ \hline 478 \end{array}$ $483 \times 17.67 = 8535$
 $\sqrt{17653}$

Avg Area = 8827 ✓

 $8827 \times \frac{6.53}{2} = 57640 \text{ Cu Yds.}$
 $\frac{57640}{31} = 1859 \text{ Cu. Yds. per day elapsed time}$
 $\frac{57640}{28.61} = 2015$ running ✓

Pond Elev - 2105.0
 Claims dredged - 12 1/2 Acres Sulphur
 Surface area - 1.88 Acres ✓
 Avg width - 280 Ft.
 Length - 290 -

$\begin{array}{r} 9118 \\ 9 \\ \hline 82062 \end{array}$ $\begin{array}{r} 8535 \\ 9 \\ \hline 76815 \end{array}$ $\begin{array}{r} 8827 \\ 9 \\ \hline 79443 \end{array}$

Thaw W/O

Block # 93 -	Remainder	=	34122	Cu Yds	
- A92 -		=	13965		
✓ A94 -	$175 \times 95 \times 19.0$	=	11699		
	19.0				
	total	=	59786		✓

Strip W/O

X2645-646 -	Remainder	=	2003	Cu Yds	
646-647 -		=	4537		✓
647-648 -		=	4330		
648-649 -		=	<u>2856</u>		✓
	Total	=	13726		✓

Dredge No. 9

August 1964

Dredge operated 31 days

Aug 681 hrs. or min = 11.38 days = 91.50 %
 lost by 55 = 2.62 = 8.46 %
 Avg Net Bank = 3.9 Ft.
 Depth = 17.7
 Total = 21.1
 (3.7) Time in F.G. = 3.79 days

$$\text{Surface} - \frac{1163}{580} \frac{1748}{585}$$

$$583 \times 17.67 = 10302 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{300}{545} \frac{851}{551}$$

$$548 \times 17.67 = 9683$$

$$19985$$

$$\text{Avg Area} = 9993$$

$$9993 \times \frac{3331}{3} \times 21.1 = 70284 \text{ Cu. Yds.}$$

$$\frac{70284}{31} = 2267 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{70284}{11.38} = 6176 \text{ running}$$

Pond Elev - 2100.4
 Claims dredged - 12+13 sq. Rigs 50 ft
 Surface area - 2.13 Acres
 Avg Width - 240 ft.
 Length - 380

$$\frac{10302}{9} = 1144.67$$

$$\frac{9683}{9} = 1075.89$$

$$\frac{9993}{9} = 1110.33$$

Thaw W/O

Block #94 - Remainder = 59253 Cudds

Strip W/O

X² 649-650 Remainder = 3978 Cudds

650-651 ✓ = 6452 ✓

651-652 ✓ = 6893 ✓

652-653 ✓ = 5156 ✓

653-654 ✓ = 5419 ✓

Total = 27898 ✓

Dredge No 9

September 1964

Dredge operated 30 days

✓ dug 665 hrs 20 min - 27.72 days - 92.41 %
 ✓ lost 54 " 40 " - 2.28 " - 7.59 %

Avg Net Bank = 1.9 ft.

✓ Depth = 18.6 "

Total = 20.5 ✓

(3.9) Time in F.B. = 2.54 days

$$\text{Surface} - \frac{3980}{533} \quad \frac{4529}{549} \quad \frac{5061}{532} \quad 533 \times 17.67 = 9418 \quad 5 \frac{1}{2}$$

$$\text{Bedrock} - \frac{5561}{510} \quad \frac{6068}{503} \quad 507 \times 17.67 = 8958$$

$$\frac{18376}{9188}$$

$$\text{Avg Area} = 9188$$

$$9188 \times \frac{6.83}{3} = 62754 \text{ Cu.Yds.}$$

$$\frac{62754}{30} = 2092 \text{ Cu.Yds. per day elapsed time}$$

$$\frac{62754}{27.72} = 2264 \text{ - running -}$$

Pond Elev

Claims dredged - 13 + 14 Ph. Diso Sulph.

Surface area - 1.95 Acres. ✓

Avg width - 235 ft

Length - 350 ✓

$$\begin{array}{r} 9418 \\ 9 \\ \hline 84762 \end{array} \quad \begin{array}{r} 8958 \\ 9 \\ \hline 80622 \end{array} \quad \begin{array}{r} 9188 \\ 9 \\ \hline 82692 \end{array}$$

Thaw W/O

Block # 95 -	$500 \times 180 \times 19.0$	=	63333 Cu. Yds.
19.0			
# 96 -	$420 \times 65 \times 22.0$	=	11122
22.0			
		Total =	<u>74455</u> ✓

Strip W/O

x ⁿ 654-655 -	Remainder	=	6978 Cu. Yds.
655-656 -	9/10 ✓	=	4527
656-657 -	5/6 ✓	=	3485
657-658 -	3/4 ✓	=	<u>4107</u>
		Total =	19097

Dredge No. 9

October 1964

Dredge operated 31 days

$$\text{Aug 68 hrs. 30 min} = 28.5 \text{ days} = 91.73 \text{ } \checkmark$$

$$\text{lost 61 - 30} = 2.56 = 8.27 \text{ } \checkmark$$

Avg Wet Bank - 2.7 ft.

$$\text{Depth} = 16.7 - (3.4) \text{ Time in FG } 10 \text{ hrs.}$$

Total = 18.9

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 706 \checkmark \\ 6429 \\ \hline 633 \checkmark \end{array} \quad \begin{array}{r} 7714 \\ 709 \checkmark \\ \hline 644 \checkmark \end{array} \quad \begin{array}{r} 8358 \\ 7716 \\ \hline 642 \checkmark \end{array} \end{array}$$

$$638 \times 17.67 = 11273 \text{ } \checkmark \text{ } \text{Cu Yds}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 8940 \\ 8350 \\ \hline 590 \checkmark \end{array} \quad \begin{array}{r} 9544 \\ 8940 \\ \hline 604 \checkmark \end{array} \end{array}$$

$$597 \times 17.67 = 10549 \text{ } \checkmark$$

$$\text{Avg Area} = \frac{11273 + 10549}{2} = 10911 \text{ } \checkmark$$

$$10911 \times \frac{18.9}{3} = 68739 \text{ Cu Yds.}$$

$$\frac{68739}{31} = 2217 \text{ Cu Yds. per day elapsed time}$$

$$\frac{68739}{28.44} = 2417 \text{ } \checkmark \text{ } \text{running}$$

Pond Eter

Claims dredged - 14 + 15 gh. Diso

Surface area - 2.34 Acres

Avg width - 205 Ft.

Length - 515

$$\begin{array}{r} 11273 \\ 9 \\ \hline 101457 \end{array}$$

$$\begin{array}{r} 10549 \\ 9 \\ \hline 94941 \end{array}$$

$$\begin{array}{r} 10911 \\ 9 \\ \hline 98199 \end{array}$$

show w/o

Block # 96 - $90 \times 275 \times 22.0$
 $\times 22.0$ 22

= 20166 CuYds.

- H 97 - 230 x 140 x 220

$$= 26237$$

Total - 46403 ✓

Step 4/6

42 6-8-69 - Remainder

6804 Cuv. No.

659-660 -

10163 ✓

660-661 - 7/3 ✓

= 7344

Total = 24311 ✓

Dredge No 9

November 1964
Shut down Nov 24 - 8:00 AM.

Dredge operated 23 days

- Aug 488 hrs. 40 min = 20.36 days = 88.53 %

- lost 63 - 20 - = 2.64 - = 11.47 %

Avg Hgt Bank = 2.6 Ft.

- Depth = 17.0 - (2.4) F.G. = 184 hrs 30 min

Total = 19.6

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 6795 \\ 6493 \\ \hline 362 \end{array} \quad \begin{array}{r} 7160 \\ 6795 \\ \hline 365 \end{array} \end{array}$$

$$364 \times 17.67 = 6432 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 7490 \\ 7158 \\ \hline 332 \end{array} \quad \begin{array}{r} 7870 \\ 7490 \\ \hline 380 \end{array} \end{array}$$

$$331 \times 17.67 = 5848$$

$$\sqrt{12280}$$

$$\text{Avg Area} = 6140$$

$$\begin{array}{r} 6140 \times 19.6 \\ \hline 3 \end{array} = 40094 \text{ Cu. Yds.}$$

$$\frac{40094}{23} = 1743 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{40094}{20.36} = 1969$$

- running -

Pond Elev -

Claims dredged - 15 Hb. Sulph.

Surface area - 1.33 Acres.

Avg width - 240 Ft

- Length - 250 -

$$\begin{array}{r} 6432 \\ 9 \\ \hline 57888 \end{array} \quad \begin{array}{r} 5848 \\ 9 \\ \hline 52632 \end{array} \quad \begin{array}{r} 6140 \\ 9 \\ \hline 55260 \end{array}$$

Thaw w/o

Block # 96 - Remainder

= 8495 Cu Yds.

, # 97 - ✓

= 12893 ✓

Total

= 21388 ✓

Strip w/oxⁿ 660-661 - Remainder

= 3671 Cu Yds

661-662 - ✓

= 12193 ✓

Total

= 15864 ✓

Dredge No. 9

May 1961
Started May 2 - 8:00 AM

Dredge operated 30 days

Avg. 278 hrs. 30 min. = 24.10 days = 80.33 %
lost 141 = 30 = 5.90 = 19.67 %

Avg. Hgt. Bank = 2.5 ft.

Depth = 19.4 (2.9) F.G. 403 hrs. 10 min
Total = 21.9 ✓

$$\begin{array}{r} \text{Surface} - \frac{9881}{193} \quad \frac{0074}{193} \\ \hline \end{array}$$

$$193 \times 17.67 = 3410 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \frac{0213}{191} \quad \frac{1443}{188} \\ \hline \end{array}$$

$$190 \times 17.67 = 3357$$

$$\begin{array}{r} \text{Avg. Area} = \frac{6767}{3} = 3384 \end{array}$$

$$3384 \times \frac{73}{3} = 24703 \text{ Cu. Yds.}$$

$$\frac{24703}{30} = 823 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{24703}{24.10} = 1025 \text{ - running -}$$

Pond Elev.

Claims dredged - N-16 Ph. Disc. Sulph.

Surface area - 0.70 Acres

Avg. Width - 260 ft

Length - 110 -

$$\begin{array}{r} 3410 \\ 9 \\ \hline 30690 \end{array} \quad \begin{array}{r} 3357 \\ 9 \\ \hline 30213 \end{array} \quad \begin{array}{r} 3384 \\ 9 \\ \hline 30456 \end{array}$$

Thain W/O

$$\text{Block \#98} - \frac{245 \times 170 \times 22.0}{22.0} = 23955 \text{ Cu Yds.}$$

$$\checkmark \text{ \#99} - \frac{200 \times 150 \times 22.0}{22.0} = 20000 \checkmark$$

$$\text{Total} = 48399 \checkmark$$

Strip W/O

$$\text{\#662-663} - \text{Remainder} = 13722 \text{ Cu Yds.}$$

$$663-664 - 2/3 \checkmark = 8128 \checkmark$$

$$664-665 - 1/3 \checkmark = 4250 \checkmark$$

$$\hline 26100$$

Dredge No. 9

June 1965

Dredge operated 30 days

dug 66 hrs 25 min = 27.35 days = 91.17%
 lost 63 - 31 - = 2.65 - = 8.83%
 Avg Hgt Bank = 5.1 ft.
 Depth = 16.9 - (2.8) E.G. 445 - Hrs
 Total = 22.0 ✓

Surface - $\frac{4133}{3808.}$ $\frac{4465}{4103}$ $\frac{4800}{4465}$ $330 \times 17.67 = 5831$ Sq. Yds
 $\frac{325}{365}$ $\frac{335}{335}$

Bedrock - $\frac{5098}{4795}$ $\frac{5714}{5402}$ $308 \times 17.67 = 5442$
 $\frac{303}{315}$ $\frac{315}{315}$ $\frac{5442}{11273}$

Avg Area = 5637 ✓

1879
 $5637 \times 22.0 = 41338$ Cu Yds.

$\frac{41338}{30} = 1378$ Cu. Yds per day elapsed time

$\frac{41338}{27.35} = 1511$ - running -

Claims dredged - 16 Hb. Sulph.
 Surface area - 1.20 Acres
 Avg width - 230 ft.
 Length - 250 -

$\frac{5831}{9}$ $\frac{5442}{9}$ $\frac{5637}{9}$
 5479 48978 50733

Thaw W/O

Block #98 - Remainder

= 27620 C.Yds.

- #99 -

54213

$$\text{minus } \overbrace{50 \times 16}^{(21-324)} \times 22.0$$

= 28889 -

$$\begin{array}{r} 35 \\ 30 \\ 50 \\ 75 \\ 95 \\ 90 \\ \hline 7 \overline{) 390} \\ 56 \end{array}$$

✓ #102 - $165 \times 90 \times 22.0$

= 12210 ✓

- #103 - $105 \times 90 \times 22.0$

= 7770 ✓

Total

76489 -

Strip W/O

Xⁿ 665-666 - 3/4 Remainder

= 10665 C.Yds.

666-667 - 4/5 ✓

= 10416 -

667-668 - 5/6 -

= 9125 ✓

668-669 - Remainder

= 11367 -

Total

= 41623 -

Dredge No. 9

July 1961

Dredge operated 31 days

- dug 678 hrs. 35 min = 78.27 days = 91.21 $\frac{20}{100}$ - lost 65 - 25 - = 2.73 - = 8.79 $\frac{20}{100}$

Avg Net Bank - 4.3 Ft

- Depth - 17.2 -

Total - 21.5 -

(2.9) F.G. 384 Hrs 15 min.

Surface -

$$\begin{array}{r} 9156 \\ 8515 \\ \hline 641 \end{array}$$

$$\begin{array}{r} 9807 \\ 9156 \\ \hline 651 \end{array}$$

$$646 \times 17.67 = 11415.54$$

Bedrock -

$$\begin{array}{r} 0390 \\ 9792 \\ \hline 598 \end{array}$$

$$\begin{array}{r} 0980 \\ 0390 \\ \hline 590 \end{array}$$

$$594 \times 17.67 = 10495.5$$

$$\text{Avg Area} = 10955$$

$$10955 \times \frac{7.17}{3} = 78547 \text{ Cu. Yds.}$$

$$\frac{78547}{31} = 2534 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{78547}{28.27} = 2778 \text{ running}$$

Claims dredged - 16 + 17 Pb. Disc.

Surface area - 2.36 Acres

Avg width - 195 ft.

Length - 470 ft.

$$\begin{array}{r} 11415 \\ 9 \\ \hline 102735 \end{array}$$

$$\begin{array}{r} 10495 \\ 9 \\ \hline 94455 \end{array}$$

$$\begin{array}{r} 10955 \\ 9 \\ \hline 98595 \end{array}$$

Thaw W/O

Block #102 - Remainder

= 86018 Cu. Yds.

- #103 -

= 90458 -

- #104 - $58 \times 180 \times \frac{22.6}{27}$

= 8738 -

- #105 - $90 \times 180 \times \frac{23.0}{27}$

= 9200 ✓

Total = 194414 ✓

Strip W/O

Stn 669 - 670 - Remainder

= 8215 C.Y.s

670 - 671 -

= 11248 -

671 - 672 -

= 19819 ✓

672 - 673 -

= 19818 -

Total = 59100 C.Y.s

Dredge No 9

August 1965

Dredge operated 31 days

Aug 692 hrs 35 min = 28.86 days = 93.09 %
 lost 51 - 25 - 2.14 - 6.91 %

Avg Hot Bank - 3.0 ft

Depth - 17.6 - (2.8) F.G. = 157 Hrs 30 min

Total - 20.6 -

Surface - $\frac{3459}{2708}$
 701

4175 4896
 $\frac{3459}{716}$ $\frac{4175}{721}$

719 x 17.67 = 12705 Sq Yds.

Bedrock - $\frac{5764}{4896}$
 608

6244 6927
 $\frac{5764}{684}$ $\frac{6244}{683}$

684 x 17.67 = 12086
 124791

Avg Area = 12396 -

4132
 $\frac{12396 \times 20.6}{3} = 85119$ Cu. Yds.

$\frac{85119}{31} = 2746$ Cu. Yds. per day elapsed time

$\frac{85119}{28.86} = 2950$ - running -

Claims dredged - 17-18 Ab. Disc
 Surfaces area - 2.62 Acres
 Avg width - 310 ft
 Length - 350 ✓

12705
 9
 114345 ✓

12086
 9
 108774 ✓

12396
 9
 111564 ✓

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