

Dr. N^o 11



MADE 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

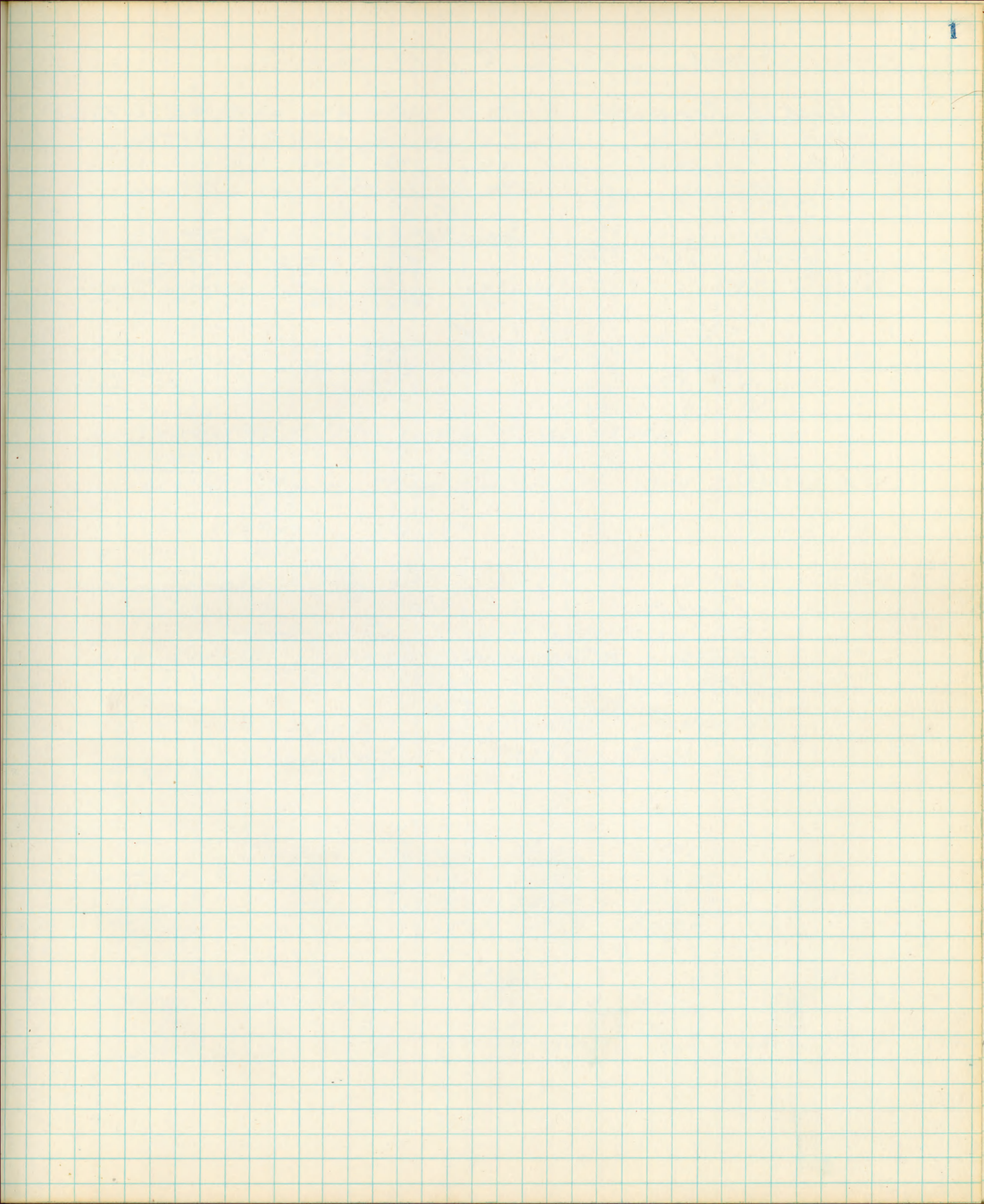
MADE ONLY IN 150 PAGE THICKNESS

TO OBTAIN A DUPLICATE OF THIS BOOK

ORDER NO. 1230

SPECIFYING RULING AND THICKNESS

Dredge N^o 11



Thawing Writeoff

Block 38 - Remainder

= 75630 Cu. Yds.

39 -

= 13750 ✓

$$40 - \frac{1841}{171} \quad \frac{2018}{171} \quad \frac{58}{3} \quad 174 \times 17.57 \times 27.7$$

= 28246 ✓

$$41 - \frac{1751}{294} \quad \frac{2050}{299} \quad \frac{99}{2} \quad 297 \times 17.57 \times 22.6$$

= 39303 ✓

Total = 156929 ✓

Stripping Writeoff

X² 74-75 - Remainder

= 8197 Cu. Yds.

75-76 - ✓

= 16744 ✓

76-77 - ✓

= 15707 ✓

77-78 - 1/6 ✓

= 4572 ✓

Total = 45220 ✓

Pond Elev - 1171.4
 Claims dredged - 61.62 Below Hunter
 Surface Area - 4.67 Acres
 Avg Width Cut - 250'
 Length - 810

Dredge No 11

August 1949

Dredge operated 31 days

Aug 662 hrs 55 min = 27.62 days = 89.10%

lost 81 - 05 - = 3.38 = 10.90%

Avg Hgt Bank = 4.6 Ft.

Depth = 19.0 -

Total = 23.61

Total Surface $\frac{2626}{1286} \frac{3913}{1287} 1286 \times 17.57 = 22595$ Sq Yds.

Total Bedrock $\frac{5197}{1287} \frac{6482}{1285} 1286 \times 17.57 = 22595$

Avg = 22595

$\frac{22595 \times 23.6}{3} = 177747$ Cu. Yds Total

$\frac{177747}{31} = 5734$ Cu. Yds. per day elapsed time

$\frac{177747}{27.62} = 6435$ running

Virgin Surface $\frac{6133}{613} \frac{6747}{614} 613 \times 17.57 = 10770$ Sq Yds.

Virgin Bedrock $\frac{7357}{599} \frac{7958}{601} 600 \times 17.57 = \frac{10542}{21312}$

$\frac{3552}{10656 \times 23.6}{3} = 83827$ Cu. Yds. Virgin

Avg Area = 10656

	Surface	Bedrock	Avg	Cu. Yds.
Total	22595	22595	22595	177747
Virgin	10770	10542	10656	83827
Tailings	11825	12053	11939	93920

Total			Virgin			Tails		
22595	22595	22595	10770	10542	10656	11825	12053	11939
9	9	9	9	9	9	9	9	9
203355	203355	203355	96930	94878	95904	106425	108477	107451

Thawing Write off

Block 41 - Remainder

= 92658 Cu.Yds.

$$40 - \frac{210 \times 170 \times 27.7}{27}$$

$$\text{Total} = \frac{92658}{27} = 34317.777$$

Stripping Write off

77-78 - $\frac{1}{4}$ Remainder =
 78-79 - $\frac{1}{4}$ ✓ =
 79-80 - $\frac{1}{4}$ ✓ =

11430 Cu.Yds
 12614 ✓
 6200 ✓
 Total = 30244 ✓

Pond Eley - 1164.9
 Claims dredged - 62 Below Hunter
 Surface Area - 4.26 Acres
 Avg Width - 230 Ft.
 Length - 750 ✓

Dredge 1/2 11

Sept 1929

Dredge operated 30 days.

✓ dug 645 hrs 25 min = 26.89 days = 89.64 ✓
 lost 74 ✓ 35 ✓ = 3.11 ✓ = 10.36 ✓

Avg. Hgt. Bank = 7.3 Ft. ✓

Depth = 15.7 ✓

Total = 23.0 ✓

Total Surface - $\frac{2840}{1172} \frac{4014}{1174} 1173 \times 17.57 = 20610$ Sq. Yds.

Total Bedrock - $\frac{5154}{1155} \frac{6306}{1152} 1153 \times 17.57 = 20258$
 740868
 Avg. Area = 20438

$\frac{20438 \times 23.0}{3} = 156691$ Cu. Yds.

$\frac{156691}{30} = 5223$ Cu. Yds per day elapsed time

$\frac{156691}{2.89} = 54218$

running

Virgin Surface - $\frac{8510}{734} \frac{9246}{736} 735 \times 17.57 = 12913$ Sq. Yds.

Virgin Bedrock - $\frac{7037}{731} \frac{7762}{725} 728 \times 17.57 = 12791$
 25704
 Avg. Area = 12852

$\frac{12852 \times 23.0}{3} = 98532$ Cu. Yds.

	Surface	Bedrock	Avg.	Cu. Yds.
Total	20610	20258	20438	156691
Virgin	12913	12791	12852	98532
Tailings	7697	7467	7586	58159

Total	Virgin	Tailings
20610	12913	7697
9	9	9
185490	116217	69273
20258	12791	7467
9	9	9
182322	115119	67203
20438	12852	7586
9	9	9
183942	115668	68274

Thawing Writeoff

Block 40 - Remainder -

= 29704

$$\begin{array}{r} 43 - \frac{8223}{7954} \frac{8492}{8223} \frac{269 \times 17.57 \times 26.5}{3} \\ (26.5) \quad 269 \quad 269 \end{array}$$

= 41746

Total = 71450

Stripping Writeoff

77-78 - Remainder

= 11431 Cu.Yds

78-79 -

= 12623

79-80 - $\frac{1}{2}$

= 9300

80-81 - $\frac{1}{3}$

= 7757

81-82 - $\frac{2}{5}$

= 8396

Total = 49507

Pond Elev. - 1165.7
 Claims dredged - Lr-63 Below Hunter
 Surface Area - 3.30 Acres
 Avg. Width - 250 Ft.
 Length - 600

Dredge No 11

October 1949

Dredge operated 31 days.

✓ dug 646 hrs. or min = 26.92 days = 86.847.

✓ lost 97 - 55 - 4.08 - = 13.16 2.

Avg. Hgt Bank = 7.2 ft.

✓ Depth = 16.5 -

Total = 23.7 -

$$\text{Total Surface} - \frac{2237}{906} \frac{3150}{913} \frac{2237}{913} 910 \times 17.57 = 15988 \text{ Sq. Yds.}$$

$$\text{Total Bedrock} - \frac{4070}{907} \frac{4977}{907} \frac{4070}{907} 907 \times 17.57 = 15936$$

$$\frac{31924}{2} = 15962$$

$$15962 \times \frac{7.9}{3} = 126100 \text{ Cu. Yds.}$$

$$\text{Avg. Area} = 15962$$

$$\frac{126100}{31} = 4068 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{126100}{26.92} = 4684 \text{ running}$$

$$\text{Virgin Surface} - \frac{5628}{723} \frac{6357}{734} \frac{7092}{735} 735 \times 17.57 = 12913 \text{ Sq. Yds.}$$

$$\text{Virgin Bedrock} - \frac{7820}{729} \frac{8545}{725} \frac{7820}{725} 727 \times 17.57 = 12773$$

$$\frac{25686}{2} = 12843$$

$$12843 \times \frac{7.9}{3} = 101460 \text{ Cu. Yds. Virgin}$$

	Surface	Bedrock	Avg.	Cu. Yds
Total	15988	15936	15962	126100
Virgin	12913	12773	12843	101460
Tailings	3075	3163	3119	24640

Total	Virgin			Tailings		
15988	15936	15962	12913	12773	12843	3075
9	9	9	9	9	9	9
143892	143424	143658	116217	114957	115287	27675
						28467
						28071

Thawing Write off

Block N^o 43 $\frac{2500}{2228}$ $\frac{2773}{2500}$
 26.5 272 273

$$\frac{91}{273 \times 17.57 \times 26.5} = 42406 \text{ CY}$$

Stripping Write off

X² 80-81 - $\frac{1}{6}$ Remainder =
 81-82 - $\frac{1}{4}$ Remainder =

2585 Cu Yds
 3149
 Total = 5734

Pond Elev - 1163.1
 Claims dredged - 62-63 Below Hunkker ✓
 Surface Area - 2.25 Acres.
 Avg Width - 255 Ft.
 Length - 400 ✓

Dredge No 11

November 1949
Shut down for Season Nov 25-8: AM

Dredge operated 24 days

- dug 519 hrs 15 min - 21.64 days - 90.15 %

- lost 56 - 45 - = 2.36 - = 9.85 %

Avg Hgt. Bank = 5.6 ft

Depth = 20.1 -

Total = 25.7 -

Total Surface $\frac{6260}{5636} \frac{6878}{6260}$ $\frac{624}{618}$ $621 \times 17.57 = 10911$ Sq. Yds.

Total Bedrock $\frac{7483}{6865} \frac{8097}{7483}$ $\frac{614}{614}$ $616 \times 17.57 = 10823$ -
✓ 21734

Avg Area = 10867 -

$\frac{10867 \times 25.7}{3} = 93094$ Cu. Yds.

$\frac{93094}{24} = 3879$ Cu. Yds. per day elapsed time.

$\frac{93094}{21.64} = 4302$ - running -

Virgin Surface $\frac{1658}{1543} \frac{1776}{1658}$ $\frac{115}{118}$ $117 \times 17.57 = 2055$ Sq. Yds

Virgin Bedrock $\frac{1870}{1775} \frac{1965}{1870}$ $\frac{95}{95}$ $95 \times 17.57 = 1669$ -
✓ 3724
Avg Area 1862 -

$\frac{1862 \times 25.7}{3} = 15951$ Cu. Yds.

	Surface	Bedrock	Avg.	Cu. Yds
Total	10911	10823	10867	93094
Virgin	2055	1669	1862	15951
Tailings	8856	9154	9005	77143

	Total	Virgin	Tailings
10911	10823	10867	2055
1669	1862	15951	8856
9154	9005	77143	9
98199	97407	97803	18495
15021	16758	79704	84386
81045			

No Thaw writeoff

Stripping Writeoff

79-80 - $\frac{1}{10}$ Remainder = 930 Cu Yd.

80-81 - $\frac{1}{10}$ ✓ = 1293 ✓

81-82 - $\frac{1}{10}$ ✓ = 945 ✓

Total = 3168 ✓

Dradga N^o 11
April 1950

Started operating April 26 - 4 P.M.
 Lost Time April 26 - 8:00 A.M.

Dradga operated 5 days

✓ dug 93 hrs 15 min. = 3.89 days = 77.71%

✓ lost 26 hrs 45 min = 1.11 ✓ = 22.29%

Avg. Hgt. Bank = 3.6 Ft.

✓ Depth = 18.2 ✓

Total ✓ = 21.8

Total Surface

$\frac{5690}{35}$

$\frac{5725}{35}$

35×17.57

=

615 Sq. Yds.

Total Badrock

$\frac{5812}{35}$

$\frac{5850}{38}$

36×17.57

=

633

$\frac{1248}{2}$

Avg. Area = 624

208

$\frac{624 \times 21.8}{3} = 4534 \text{ Cu. Yds.}$

$\frac{4534}{5} =$

907

Cu. Yds. per day elapsed time

$\frac{4534}{3.89} =$

1166

✓

running

Pond Elev

- 1162.9

Claims dredged

- 62-63 Below Hunker

Surface area

- 0.13 Acres

Avg Width cut

- 240 Ft.

✓ Length ✓

- 30 ✓

615

9

5535

633

9

5697

624

9

5616

Thaw Writeoff

$$\begin{array}{r}
 \text{Block 412} - \quad 1935 \quad \checkmark 333 \\
 (16.0) \quad \quad \underline{1537} \quad \quad \underline{1935} \\
 \quad \quad \quad 398 \quad \quad \quad 398
 \end{array}$$

$$398 \times \frac{17.57 \times 16}{3} = 37296 \text{ Cu. Yds.}$$

Strip Writeoff

$$\checkmark 79-80 - \text{Remainder} = 8370 \text{ Cu. Yds}$$

$$\checkmark 80-81 - \quad \quad \quad = 11635 \quad \checkmark$$

$$\checkmark 81-82 - \quad \quad \quad = 8502 \quad \checkmark$$

$$\text{Total} \quad \underline{\quad} \quad 28507 \quad \checkmark$$

Dredge No 11

May 1950

Dredge operated 31 days

Dug 670 hrs 10 min = 27.9 days = 90.08 %

lost 73 - 50 = 3.08 = 9.92 %

Avg Hgt Bank = 3.3 ft.

Depth = 15.9

Total = 19.2

Surface

$$\begin{array}{r} 9605 \\ 8993 \\ \hline 612 \end{array}$$

$$612 \times 17.57 = 10753 \text{ Sq. Yds.}$$

Bedrock

$$\begin{array}{r} 0835 \\ 0217 \\ \hline 618 \end{array}$$

$$619 \times 17.57 = 10875$$

$$2 \overline{) 21628}$$

$$\text{Avg Area} = 10814$$

$$\frac{10814 \times 19.2}{3} = 69210 \text{ Cu. Yds.}$$

$$\frac{69210}{31} = 2233 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{69210}{27.92} = 2479 \text{ running}$$

Pond Elev - 1157.1

Claims dredged - 62-63 Hunter

Surface Area - 2.22 Acres.

Avg Width - 250 ft

Length - 400

$$\begin{array}{r} 10753 \\ 9 \\ \hline 96777 \end{array}$$

$$\begin{array}{r} 10875 \\ 9 \\ \hline 97875 \end{array}$$

$$\begin{array}{r} 10814 \\ 9 \\ \hline 97326 \end{array}$$

Thaw Writeoff

Block 4r Remainder = 23237 Cu.Yds.

✓	44 (19.1)	$\begin{array}{r} 7239 \\ 7175 \\ \hline 64 \end{array}$	$\begin{array}{r} 7310 \\ 7239 \\ \hline 71 \end{array}$	$\frac{67 \times 17.57 \times 19.1}{3}$	=	7504	✓	
✓	45 (27.8)	$\begin{array}{r} 6098 \\ 6040 \\ \hline 58 \end{array}$	$\begin{array}{r} 6164 \\ 6098 \\ \hline 66 \end{array}$	$\frac{62 \times 17.57 \times 27.8}{3}$	=	10085	✓	
						Total =	40826	✓

Stripping Writeoff

# 82-83 -	7/7 Remainder		=	13510 Cu.Yds.	
83-84 -	4/5	✓	=	11522	✓
84-85 -	6/7	✓	=	6320	✓
			Total =	31352	

Pond Elev.	-	1158.1
Claims dredged	-	63 Hunker
Surface Area	-	3.43 Acres.
Avg. Width Cut	-	250 Ft.
Length	-	570 Ft.

Dredge N^o 11

June 1950

Dredge operated 30 days

dug 653 hrs. 50 min. = 27.24 days = 90.81 %

lost 66 - 10 - = 2.76 - = 9.19 %

Avg. Hgt Bank = 5.0

Depth = 16.5

Total = 21.5

$$\text{Total Surface} - \begin{array}{r} 598 \\ 1706 \\ 892 \end{array} \quad \begin{array}{r} 3541 \\ 2598 \\ 943 \end{array} \quad \begin{array}{r} 4765 \\ 3817 \\ 948 \end{array} \quad 945 \times 17.57 = 16604 \text{ Sq. Yds.}$$

$$\text{Total Bedrock} - \begin{array}{r} 5703 \\ 4771 \\ 932 \end{array} \quad \begin{array}{r} 6624 \\ 5703 \\ 921 \end{array} \quad 926 \times 17.57 = 16270 \checkmark$$

$$\frac{5479}{3} \times 21.5 = 117799 \text{ Cu. Yds.}$$

$$\text{Avg. Area} = 16437 \checkmark$$

$$\frac{117799}{30} = 3927 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{117799}{27.24} = 4324 \checkmark \quad \text{running} \checkmark$$

$$\text{Tailings Surface} - \begin{array}{r} 5205 \\ 5155 \\ 100 \end{array} \quad \begin{array}{r} 5312 \\ 5255 \\ 57 \end{array} \quad 98 \times 17.57 = 1722 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \begin{array}{r} 5432 \\ 5350 \\ 82 \end{array} \quad \begin{array}{r} 5515 \\ 5432 \\ 83 \end{array} \quad 83 \times 17.57 = 1458 \checkmark$$

$$\text{Avg. Area} = 1590 \checkmark$$

$$\frac{530}{3} \times 21.5 = 11395 \text{ Cu. Yds.}$$

	Surface	Bedrock	Avg.	Cu. Yds
Total	16604	16270	16437	117799
Tailings	1722	1458	1590	11395
Virgin	14882	14812	14847	106404

Total	Tail's			Virgin		
16604	16270	16437	1722	1458	1590	14882
9	9	9	9	9	9	9
149436	146430	147933	15498	13122	14310	133938
						133308
						133623

Thaw. Writeoff

Block 45 - Remainder

= 89748 [✓] Cu. Yds.Strip. WriteoffX⁹ 82-83 - Remainder= 5400 [✓] Cu. Yds.

83-84 - ✓

= 2881 ✓

84-85 - ✓

= 1054 ✓

Total = 9340 [✓] ✓

Pond Elev - 1161.9
 Claims dredged - 23-24 Hooker
 Surface Area - 2.90 Acres.
 Dig width cut - 250 ft
 Length - 500 ✓

Dredge N^o 11

July 1950

Dredge operated 31 days

$$\text{dig } 647 \text{ hrs. } 10 \text{ min} = 26.97 \text{ days} = 86.98 \text{ } \checkmark$$

$$\text{lost } 96 \text{ } \checkmark \quad 50 \text{ } \checkmark = 4.03 \text{ } \checkmark = 13.02 \text{ } \checkmark$$

Avg. Hgt Bank = 9.4 ft.

Depth = 17.5 $\checkmark$ Total = 26.9 $\checkmark$

$$\text{Total Surface} - \frac{8666}{798} \quad \frac{9464}{798} \quad 798 \times 17.57 = 14021 \text{ Sq. Yds.}$$

$$\text{Total Bedrock} - \frac{1070}{795} \quad \frac{1819}{799} \quad 797 \times 17.57 = \frac{14003}{28024} \checkmark$$
Avg. Area 14012 $\checkmark$

$$\frac{14012 \times 26.9}{3} = 125640 \text{ cu Yds}$$

$$\frac{125640}{31} = 4053 \text{ cu. yds per day elapsed time}$$

$$\frac{125640}{26.97} = 4658 \text{ } \checkmark \checkmark \checkmark \checkmark \text{ running } \checkmark$$

$$\text{Tailings Surface} \quad \frac{2336}{1856} \quad \frac{2803}{2336} \quad \frac{3277}{2803} \quad 1474 \times 17.57 = 8328 \text{ Sq. Yds.}$$

$$\frac{480}{467} \quad \frac{467}{494} \quad \frac{494}{488} \times 17.57 = \frac{8574}{16902} \checkmark$$

$$\checkmark \text{ BR. } \frac{3770}{3284} \quad \frac{4229}{3770} \quad \frac{488}{469} \quad \text{Avg Area } 8451 \checkmark$$

$$\frac{2817}{8451} \times 26.9 \checkmark = 75777 \text{ cu yds.}$$

	Surface	Bedrock	Avg.	Cu. Yds.
Total	14021	14003	14012	125640
Tailings	8328	8574	8451	75777
Virgin	5693	5429	5561	49863

Total	Tails	Virgin
14021	8328	5693
14003	8574	5429
14012	8451	5561
9	9	9
126189	74952	51237
126027	77166	48861
126108	76059	50059

THAW WRITE-OFF

BLOCK 47
(31.9)
$$\begin{array}{r} 3451 \\ 3286 \\ \hline 165 \end{array}$$

$$\begin{array}{r} 3616 \\ 3451 \\ \hline 165 \end{array}$$

$$165 \times 17.57 \times \frac{31.9}{3} = 30,827 \text{ CU. YARDS.}$$

STRIP WRITE-OFF

Xn	85-86	-	$\frac{1}{3} \times 3952$	=	1317	CUBIC YARDS
✓	86-87	-	$\frac{1}{3} \times 6326$	=	2109	" "
✓	87-88	-	$\frac{1}{3} \times 8667$	=	2889	" "
✓	88-89	-	$\frac{1}{3} \times 9811$	=	3270	" "
✓	89-90	-	$\frac{1}{3} \times 9078$	=	3026	" "
✓	90-91	-	$\frac{1}{4} \times 7759$	=	1940	" "

TOTAL 14,551 CU. YARDS.

POND ELEV. - 1151.1

CLAMS DREDGED - 64-65 HUNKER

SURFACE AREA - 3.44 ACRES

AV. WIDTH CUT - 280'

AV. LENGTH CUT - 545'

DREDGE No. 11

Aug. '50

DREDGE OPERATED 31 DAYS.

✓ DUG 664 HRS 40 MIN = 27.69 DAYS = 89.34%
 ✓ LOST 79 - 20 ✓ = 3.31 ✓ = 10.66%

AVERAGE HEIGHT BANK = 5.4'

✓ DEPTH = 22.5'

TOTAL ✓ = 27.9'

TOTAL SURFACE	$\frac{3579}{2609}$ 970	$\frac{4553}{3579}$ 974	$972 \times 17.57 = 17078$ square yards
---------------	----------------------------	----------------------------	---

TOTAL BEDROCK	$\frac{6474}{5550}$ 924	$\frac{7396}{6474}$ 922	$921 \times 17.57 = 16182$ ✓ ✓
---------------	----------------------------	----------------------------	--------------------------------

2133260

AVERAGE AREA = 16630 ✓ ✓

 $16630 \times \frac{27.9}{3} = 154,659$ cubic yards. $\frac{154659}{31} = 4989$ cu. yards per day elapsed time $\frac{154659}{27.69} = 5585$ ✓ ✓ ✓ ✓ running ✓

TAILINGS SURFACE	$\frac{3225}{3018}$ 207	$\frac{3434}{3225}$ 209	$208 \times 17.57 = 3654$ square yards
------------------	----------------------------	----------------------------	--

BEDROCK	$\frac{3646}{3437}$ 209	$\frac{3855}{3646}$ 209	$209 \times 17.57 = 3672$ ✓ ✓
---------	----------------------------	----------------------------	-------------------------------

217326

AVERAGE TAILINGS AREA = 3663 ✓ ✓

 $3663 \times \frac{27.9}{3} = 34066$ cubic yards.

	Surface	Bedrock	Average	Cu. yds.
TOTAL	17078 sq.yds	16182 sq.yds	16630 sq.yds	154,659
TAILINGS	3654 ✓	3672 ✓	3663 ✓	34,066
VIRGIN	13,424 ✓	12,510 ✓	12,967 ✓	120,593

TOTAL - Sq. Ft.			TAILINGS - Sq. Ft.			VIRGIN - Sq. Ft.		
17078	16182	16630	3654	3672	3663	13424	12,510	12,967
<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>
153,702	145,638	149,670	32,886	33,048	32,967	120,816	112,590	116,703

THAW WRITE OFF

BLOCK 47 - REMAINDER = 15694

BLOCK 49 - $\frac{6635}{6526} \frac{6746}{6635} \frac{110 \times 17.57 \times 25.7}{3} = 16157$ BLOCK 46 - $\frac{3074}{3028} \frac{3120}{3074} \frac{46 \times 17.57 \times 20.4}{3} = 5496$

TOTAL THAW W.O = 37,347 cu. yds

STRIPPING WRITE OFF

XN- 90-91 - $\frac{1}{8} \times 7759 = 970$ cu. yards91-92 - $\frac{1}{3} \times 9048 = 3016$ " "92-93 - $\frac{1}{2} \times 10074 = 5037$ " "93-94 - $\frac{3}{5} \times 10015 = 6009$ " "94-95 - $\frac{1}{2} \times 9366 = 4683$ " "

TOTAL STRIPPING W.O = 19715 " "

POND ELEV - 1152.2

CLAIMS DREDGED - 65 HUNKER

SURFACE AREA - 3.42 ACRES

AV. WIDTH CUT - 250 FT

AV. LENGTH - 620 "

DREDGE 11

SEPT. 1950

DREDGE OPERATED 30 DAYS

✓ DUG 649 HRS. 10 MIN. = 27.1 DAYS = 90.16%
 ✓ LOST 70 " 50 " = 2.9 " = 9.84%

AVERAGE HEIGHT BANK = 6.1'

✓ DEPTH BELOW WATER = 22.3'

TOTAL DEPTH = 28.4'

TOTAL SURFACE -	$\begin{array}{r} 3916 \\ 2977 \\ \hline 939 \end{array}$	$\begin{array}{r} 4859 \\ 3916 \\ \hline 943 \end{array}$	$941 \times 17.57 = 16533$ SQ. YDS ✓
TOTAL BEDROCK -	$\begin{array}{r} 8426 \\ 7536 \\ \hline 890 \end{array}$	$\begin{array}{r} 9314 \\ 8426 \\ \hline 888 \end{array}$	$889 \times 17.57 = 15620$ ✓ $\underline{2132153}$

AVERAGE AREA = 16076 ✓ ✓

 $16076 \times 28.4 = 152186$ ✓ CU. YARDS $\frac{152186}{30} = 5073$ ✓ CU. YARDS PER DAY ELAPSED TIME $\frac{152186}{27.1} = 5616$ ✓ " " " " RUNNING TIME

NOTE - THERE WERE NO
 TAILINGS DUG DURING
 SEPT. THROUGH AN ERROR
 THE TAILINGS DUG IN AUG.
 WERE RE-MEASURED IN SEPT.
 2/25

TAILINGS - SURFACE -	$\begin{array}{r} 3082 \\ 2871 \\ \hline 211 \end{array}$	$\begin{array}{r} 3295 \\ 3082 \\ \hline 213 \end{array}$	$212 \times 17.57 = 3725$ ✓ SQ. YDS
BEDROCK -	$\begin{array}{r} 3512 \\ 3299 \\ \hline 213 \end{array}$	$\begin{array}{r} 3725 \\ 3512 \\ \hline 213 \end{array}$	$213 \times 17.57 = 3742$ ✓ $\underline{27467}$

AVERAGE TAILINGS AREA = 3733 ✓

 $3733 \times 28.4 = 35339$ ✓ CU. YARDS TAILINGS

	SURFACE	BEDROCK	AVERAGE	CU. YARDS
TOTAL	16533	15620	16076	152186
TAILINGS	3725	3742	3733	35339
VIRGIN	12808 ✓	11878 ✓	12343 ✓	116847 ✓

TOTAL - SQ. FT.			TAILINGS - SQ. FT.			VIRGIN - SQ. FT.		
$\begin{array}{r} 16533 \\ 9 \\ \hline 148797 \end{array}$	$\begin{array}{r} 15620 \\ 9 \\ \hline 140580 \end{array}$	$\begin{array}{r} 16076 \\ 9 \\ \hline 144684 \end{array}$	$\begin{array}{r} 3725 \\ 9 \\ \hline 33525 \end{array}$	$\begin{array}{r} 3742 \\ 9 \\ \hline 33678 \end{array}$	$\begin{array}{r} 3733 \\ 9 \\ \hline 33597 \end{array}$	$\begin{array}{r} 12808 \\ 9 \\ \hline 115272 \end{array}$	$\begin{array}{r} 11878 \\ 9 \\ \hline 106902 \end{array}$	$\begin{array}{r} 12343 \\ 9 \\ \hline 111087 \end{array}$

Thawing Writeoff

$$\text{Block 46} - \frac{9255}{9207} \frac{9307}{9255} \frac{50 \times 17.57 \times \frac{6.8}{3}}{48} = 1950$$

26180 Cu.Yds.

$$\text{Block 46} - \frac{9700}{9530} \frac{9870}{9700} \frac{170 \times 17.57 \times \frac{6.8}{3}}{170} = 20230$$

$$\text{Block 44} - \frac{6505}{6450} \frac{6561}{6505} \frac{56 \times 17.57 \times \frac{19.1}{3}}{55} =$$

6272

Total 32452

Stripping Writeoff

$$86-87 - \frac{1}{6} \text{ Remainder} = 703 \text{ Cu.Yds.}$$

$$87-88 - \frac{1}{2} = 2889$$

$$88-89 - \frac{1}{2} = 3270$$

$$89-90 - \frac{1}{2} = 3026$$

$$90-91 - \frac{1}{2} = 2424$$

$$91-92 - \frac{1}{2} = 3016$$

$$92-93 - \frac{1}{2} = 2518$$

$$93-94 - \frac{1}{2} = 2003$$

$$94-95 - \frac{1}{10} = 468$$

$$\text{Total} = 20317$$

Dredge No 11

October 1950

Dredge operated 31 days

- dug 673 hrs. 15 min = 28.05 days = 90.49 T₂- lost 70 " 45 " = 2.95 " = 9.51 T₂

Avg Hat Bank = 5.2 Ft.

- Depth = 17.3 "

Total = 22.5 "

Surface

$$\begin{array}{r} 6525 \\ 5413 \\ \hline 1112 \end{array}$$

$$\begin{array}{r} 2647 \\ 1535 \\ \hline 1112 \end{array}$$

1112 x 17.57 = 19538 Sq. Yds.

Bedrock

$$\begin{array}{r} 5976 \\ 4859 \\ \hline 1117 \end{array}$$

$$\begin{array}{r} 7092 \\ 5976 \\ \hline 1116 \end{array}$$

1117 x 17.57 = 19626

2 39164

Avg Area = 19582

$$19582 \times \frac{7.5}{3} = 146865 \text{ Cu. Yds}$$

$$\frac{146865}{31} = 4738 \text{ Cu. Yds per day elapsed time}$$

$$\frac{146865}{28.05} = 5236 \text{ - running}$$

Pond Elev

- 1152.8

Claims dredged

- 64.65 Hunter

Surface Area

- 4.04 Acres

Avg Width cut

- 270 Ft

Length

- 660 "

$$\begin{array}{r} 19538 \\ 9 \\ \hline \end{array}$$

175842

$$\begin{array}{r} 19626 \\ 9 \\ \hline \end{array}$$

176634

$$\begin{array}{r} 19582 \\ 9 \\ \hline \end{array}$$

176238

Thawing Whiteoff

$$\text{Block \#44} - \frac{3780}{3766} \frac{3802}{3780} \times 17.57 \times 19.1 = 2568 \text{ Cu Yds.}$$

19.1 24 22 3

Stripping Whiteoff

$$\text{X}^2 86.87 - 1/2 \text{ Remainder} = 1757 \text{ Cu Yds.}$$

Pond Elev - 1152.8
 Claims dredged - 64 Below Hunker
 Surface - 0.42 Acres.
 Avg. Width Cut - 300 Ft.
 Length - 61'

Dredge No 11

November 1950
Shut down Nov 5 - 8 A.M.
4 days Run

Dredge operated 4 days

- dig 86 hrs 50 min = 3.42 days = 90.45%

- lost 9 - 10 - = 0.38 - = 9.55%

Avg. Wet Bank = 11.7 Ft.

Depth = 16.5

Total = 28.2

Total Surface - $\begin{array}{r} 3380 \\ 3267 \\ \hline 113 \end{array}$ $\begin{array}{r} 3500 \\ 3380 \\ \hline 120 \end{array}$ $116 \times 17.57 = 2038$ Sq Yds.

Total Bedrock - $\begin{array}{r} 3618 \\ 3501 \\ \hline 117 \end{array}$ $\begin{array}{r} 3740 \\ 3618 \\ \hline 122 \end{array}$ $119 \times 17.57 = 2090$

$\begin{array}{r} 9.4 \\ 2064 \times 28.2 = 19402 \text{ Cu. Yds.} \\ \hline 3 \end{array}$ Avg. Area $\begin{array}{r} 4128 \\ \hline 2064 \end{array}$

$\frac{19402}{4} = 4850$ Cu. Yds. per day elapsed time

$\frac{19402}{3.62} = 5360$

running

Tailings Surface - $\begin{array}{r} 5434 \\ 5397 \\ \hline 37 \end{array}$ $\begin{array}{r} 5471 \\ 5434 \\ \hline 37 \end{array}$ $37 \times 17.57 = 650$ Sq Yds.

Bedrock - $\begin{array}{r} 5507 \\ 5474 \\ \hline 33 \end{array}$ $\begin{array}{r} 5540 \\ 5507 \\ \hline 33 \end{array}$ $33 \times 17.57 = 580$

Avg. Area = $\begin{array}{r} 1230 \\ \hline 615 \end{array}$

$\begin{array}{r} 9.4 \\ 615 \times 28.2 = 5781 \text{ Cu. Yds.} \\ \hline 3 \end{array}$

	Surface	Bedrock	Average	Cu. Yds.
Total	2038	2090	2064	19402
Tailings	650	580	615	5781
Virgin	1388	1510	1449	13621

Total	Tailings	Virgin
$\begin{array}{r} 2038 \\ 9 \\ \hline 18342 \end{array}$	$\begin{array}{r} 2090 \\ 9 \\ \hline 18810 \end{array}$	$\begin{array}{r} 2064 \\ 9 \\ \hline 18576 \end{array}$
$\begin{array}{r} 650 \\ 9 \\ \hline 5850 \end{array}$	$\begin{array}{r} 580 \\ 9 \\ \hline 5220 \end{array}$	$\begin{array}{r} 615 \\ 9 \\ \hline 5535 \end{array}$
$\begin{array}{r} 12492 \\ 9 \\ \hline 13590 \end{array}$	$\begin{array}{r} 1388 \\ 9 \\ \hline 13041 \end{array}$	$\begin{array}{r} 1510 \\ 9 \\ \hline 13041 \end{array}$

Thawing Writeoff

$$\text{Block \#44} - \frac{1545}{1339} \frac{1769}{1744} \frac{1969}{1760} - 208 \times \frac{5.89}{3} \times 19.1 = 23400 \text{ Cu Yds.}$$

19.1 ✓ 208 ✓ 215 ✓ 209 ✓

Stripping Writeoff

X ²	84-85	Remainder	= 0
/	85-86	/	= 2635 Cu Yds.
/	86-87	/	= 1757
Total			4392 Cu Yds.

Pond Elev. — 1154.8
 Claims dredged — 63-64 Below Hunter ✓
 Surface Area — 2.54 Acres.
 Avg Width Cut — 225 ft.
 - Length — 620 ✓

$17.67 = \frac{Sq. Yds.}{\text{Day}}$

Dredge No. 11

May 1951
Started digging May 1 - 11 am.

Dredge operated 31 days

$\frac{17.67 \times 60 \text{ hrs} \times 15 \text{ min}}{60} = 27.93 \text{ days} = 90.09 \text{ days}$
 $\frac{105 \times 73 \times 45}{60} = 3.07 \text{ days} = 9.91 \text{ days}$

Avg Hgt. Bank = 6.4 ft.

Depth = 16.1
Total = 22.5

Total Surface - $\frac{7279 \quad 7995}{6583 \quad 7279} \quad 6.96 \times 17.67 = 12298 \text{ Sq. Yds.}$

Total BR. - $\frac{8666 \quad 9393}{7940 \quad 8666} \quad 726 \times 17.67 = 12828$
 $\frac{12828}{2} = 6414$

$\frac{6414 \times 22.5}{3} = 94224 \text{ Cu. Yds.}$

$\frac{94224}{31} = 3039 \text{ Cu. Yds. per day elapsed time}$

$\frac{94224}{27.93} = 3374 \text{ running}$

Tailings Surface - $\frac{0497 \quad 0638}{0355 \quad 0497} \quad 142 \times 17.67 = 2509 \text{ Sq. Yds.}$

Tailings BR. - $\frac{0719 \quad 0881}{0558 \quad 0719} \quad 162 \times 17.67 = 2862$
 $\frac{2862}{2} = 1431$
 $\frac{1431 \times 22.5}{3} = 10657.5 \text{ Cu. Yds.}$
Avg = 2685

	Surface	Bedrock	Average	Cu. Yds.
Total	12298	12828	12563	94224
Tailings	2509	2862	2685	20137
Virgin	9789	9966	9878	74087

Total			Tailings			Virgin		
12298	12828	12563	2509	2862	2685	9789	9966	9878
9	9	9	9	9	9	9	9	9
110682	115452	113067	22581	25758	24165	88101	89694	88902

Thawing Whitcoff

Block 44- Remainder

= 29711 Cu.Yds

✓ 46- ✓

= 79546 ✓

Total = 109257 ✓

Stripping Whitcoff

yⁿ 87-88- Remainder

= 2889 Cu.Yds.

88-89 - ✓

= 3271 ✓

89-90 - ✓

= 3026 ✓

90-91 - ✓

= 2425 ✓

91-92 - ✓

= 3016 ✓

92-93 - ✓

= 2519 ✓

93-94 - ✓

= 2003 ✓

Total = 19109 ✓

Dredge 5/11

June 1951

Dredge operated 30 days

Dug 657 hrs 40 min = 27.40 days = 91.347.

Lost 62 ✓ 20 ✓ = 2.60 ✓ = 8.667.

Avg Hgt Bank = 3.3 ft.

Depth = 15.3 ✓

Total = 18.6 ✓

$$\text{Surface} \quad \begin{array}{r} 6288 \\ 5228 \\ \hline 1060 \end{array} \quad \begin{array}{r} 7338 \\ 6288 \\ \hline 1050 \end{array} \quad 1055 \times 17.67 = 18642.5 \text{ Yds.}$$

$$\text{Bedrock} \quad \begin{array}{r} 8410 \\ 7346 \\ \hline 1064 \end{array} \quad \begin{array}{r} 9471 \\ 8410 \\ \hline 1061 \end{array} \quad 1062 \times 17.67 = 18766 \text{ ✓}$$

$$\text{Avg Area} \quad \begin{array}{r} 18766 \\ 37408 \\ \hline 18704 \end{array} \text{ ✓}$$

$$\frac{18704 \times 18.6}{3} = 115965 \text{ Cu. Yds.}$$

$$\frac{115965}{30} = 3866 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{115965}{27.40} = 4232 \text{ ✓ running -}$$

Pond Elev - 1148.9
 Claims dredged - 64-65 Below Hunker
 Surface Area - 3.85 Acres
 Avg width Cut - 225'
 Length - 700'

$$\begin{array}{r} 18642.5 \\ \hline 167778 \end{array} \quad \begin{array}{r} 18766 \\ \hline 168894 \end{array} \quad \begin{array}{r} 18704 \\ \hline 168336 \end{array}$$

Thawing Whiteoff

$$\text{Block 48} - \frac{110 \times 19.5 \times 20.6 + 100 \times 45 \times 20.6}{27} = 19799 \text{ Cu. Yds}$$

$$\text{Block 49} - \frac{1}{2} \text{ Remainder}$$

$$= \frac{16218}{\text{Total} = 36017}$$

Stripping Whiteoff

$$\text{X 94-95} - \text{Remainder} = 4215 \text{ Cu Yds}$$

$$95-96 - \checkmark = 9952 \checkmark$$

$$96-97 - \checkmark = 11830 \checkmark$$

$$97-98 - \frac{1}{2} \checkmark = \frac{6557}{\text{Total} = 32594} \checkmark$$

Drill - July 1957

Dredge operated 31 days

$$\begin{aligned} & \text{dug } 670 \text{ hrs } 55 \text{ min} = 27.95 \text{ days} = 90.18\% \\ & \text{lost } 73 \text{ } 05 \text{ } = 3.05 \text{ } = 9.82\% \end{aligned}$$

Avg Hgt. of Bank = 8.7 ft.

Depth = 16.6 -

Total = 24.8 -

Surface

$$\begin{array}{r} 2239 \\ 1188 \\ \hline 1051 \end{array} \quad \begin{array}{r} 3292 \\ 2239 \\ \hline 1053 \end{array}$$

$$1052 \times 17.67 = 18589 \quad 59.14\%$$

Bedrock

$$\begin{array}{r} 4287 \\ 3259 \\ \hline 1028 \end{array} \quad \begin{array}{r} 5317 \\ 4287 \\ \hline 1030 \end{array}$$

$$1029 \times 17.67 = 18182 \quad -$$

$$2 \times 36771$$

$$\text{Avg Area} = 18385 \quad \checkmark$$

$$18385 \times 24.8 = 151983 \text{ Cu Yds.}$$

$$\frac{151983}{31} = 4903 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{151983}{27.95} = 5438 \quad \checkmark \quad \text{running}$$

Pond Elev. - 1148.3

Surface Area - 3.84 Acres

Claims dredged - 65-66 Bed Hunter

Avg width cut - 250 ft.

Length - 610 -

$$\begin{array}{r} 18589 \\ 9 \\ \hline 167301 \end{array}$$

$$\begin{array}{r} 18182 \\ 9 \\ \hline 163638 \end{array}$$

$$\begin{array}{r} 18385 \\ 9 \\ \hline 165465 \end{array}$$

$$167301 \quad \checkmark$$

$$163638 \quad \checkmark$$

$$165465 \quad \checkmark$$

Thawing Writeoff

Block #49-Remainder

= 16219 Cu.Yds.

$$- \frac{H50 - 230 \times 190 \times 22.3}{(22.3) \quad 27}$$

$$\text{Total} = \frac{= 36093}{52312}$$

Stripping WriteoffX² 97-98 - 1/3 Remainder

= 2186 Cu.Yds.

98-99 - 1/3

= 4812

99-100 - 1/3

= 5417

100-101 - 1/3

= 5856

101-102 - 1/3

= 6181

102-103 - 1/3

= 6207

103-104 - 1/6

= 3152

Total = 33811

Dredge No 11

August 1951

Dredge operated 31 days

- Aug 668 hrs 0 min = 27.83 days = 89.78 %

- lost 46 - 0 - = 3.17 - = 10.22 %

Avg Hgt Bank = 7.7 Ft.

- Depth = 16.4 -

Total = 24.1 ✓

Surface

$$\frac{5987}{4965} \div \frac{1021}{1021}$$

$$\frac{7008}{5987} \div \frac{1021}{1021}$$

$$= 1021 \times 17.67$$

$$= 18041 \text{ Sq. Yds.}$$

Bedrock

$$\frac{7998}{7033} \div \frac{967}{967}$$

$$\frac{8967}{7998} \div \frac{967}{967}$$

$$= 967 \times 17.67$$

$$= 17087$$

$$= 35128$$

$$\text{Avg Area} = 17564$$

$$\frac{17564 \times 24.1}{3} = 141097 \text{ Cu. Yds.}$$

$$\frac{141097}{31} = 4552 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{141097}{27.83} = 5070$$

- running -

Pond Elev. - 1141.0

Claims dredged - 66.67 Bel Hunter

Surface Area - 3.73 Acres.

Avg width - 250

- Length - 600

$$\frac{18041}{9} = 162369$$

$$\frac{17087}{9} = 153783$$

$$\frac{17564}{9} = 158076$$

Thawing Whiteoil

Block 100 -	$\frac{245 \times 275 \times 22.3}{27.3}$	=	55646 Cu. Yds.
✓ 101 -	$\frac{240 \times 100 \times 23.2}{23.2}$	=	103111 ✓
✓ 102 -	$\frac{235 \times 160 \times 23.0}{23.0}$	=	32030 ✓
		Total =	<u>190787</u> ✓

Shipping Whiteoil

103-104	$\frac{1}{3}$		=	3153 Cu. Yds.
✓ 104-105	$\frac{1}{3}$	Remainder	=	6637 ✓
105-106	$\frac{1}{3}$	✓	=	7426 ✓
106-107	$\frac{1}{3}$	✓	=	7133 ✓
107-108	$\frac{1}{3}$	✓	=	5504 ✓
108-109	$\frac{1}{3}$	✓	=	4880 ✓
109-110	$\frac{1}{3}$	✓	=	5062 ✓
110-111	$\frac{1}{3}$	✓	=	4246 ✓
111-112	$\frac{1}{3}$	✓	=	3709 ✓
112-113	$\frac{1}{5}$	✓	=	<u>2371</u> ✓
		Total =	50121 ✓	

Dredge No 11

Sept. 1951

Dredge operated 30 days

Avg. Lvr. hrs. Omin = 2713 days = 90.42 %

Lost 69 - 0 - = 2.87 - = 9.58 %

Avg. Hgt. Bank = 2.5 Ft.

Depth = 17.1 -

Total = 196 -

$$\begin{array}{r} \text{Surface} \quad 2419 \quad 3849 \quad 5232 \quad 6610 \\ \quad 1081 \quad 2419 \quad 3849 \quad 5232 \\ \hline \quad 1338 \quad 1430 \quad 1383 \quad 1378 \end{array} \quad 1380 \times 17.67 = 24385 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} \quad 7900 \quad 9201 \\ \quad 6606 \quad 7900 \\ \hline \quad 12941 \quad 13051 \end{array} \quad 1300 \times 17.67 = 22971$$

$$= 49356$$

$$\text{Avg. Area} = 23678$$

$$\frac{23678 \times 19.4}{3} = 154696 \text{ Cu. Yds}$$

$$\frac{154696}{30} = 5157 \text{ Cu. Yds per day elapsed time}$$

$$\frac{154696}{29.13} = 5312 \text{ running}$$

Pond Elev. - 1136.3

Claims dredged - 67-68-69 Below Hunter

Surface area - 5.03 Acres.

Avg length cut - 530 Ft

width - 240

$$\begin{array}{r} 24385 \\ 9 \\ \hline 219465 \end{array} \quad \begin{array}{r} 22971 \\ 9 \\ \hline 206739 \end{array} \quad \begin{array}{r} 23678 \\ 9 \\ \hline 213102 \end{array}$$

Shaw Writeoff

$$\begin{array}{r} \text{Block } \checkmark 1 \\ 23.2 \end{array} \quad \begin{array}{r} 7052 \\ 6817 \\ \hline 235 \end{array} \quad \begin{array}{r} 7299 \\ 7052 \\ \hline 245 \end{array} \quad \begin{array}{r} \sqrt{.89} \\ 240 \times 17.67 \times 23.2 \\ \hline 3 \end{array} = 32640 \text{ Cu. Yds.}$$

$$\begin{array}{r} \text{Block } \checkmark 2 \\ 23.0 \end{array} \quad \begin{array}{r} 7517 \\ 6970 \\ \hline 547 \end{array} \quad \begin{array}{r} 8062 \\ 7577 \\ \hline 485 \end{array} \quad \begin{array}{r} \sqrt{.89} \\ 546 \times 17.67 \times 23.0 \\ \hline 3 \end{array} = 73710 \quad \checkmark$$

$$\text{Total} = 106350 \quad \checkmark$$

Stripping Writeoff

$$X^2 \text{ } 109 - 110 - \frac{1}{3} \text{ Remainder} = 3374 \text{ Cu. Yds.}$$

$$110 - 111 - \frac{1}{2} - = 4545 \quad \checkmark$$

$$111 - 112 - \frac{1}{2} - = 3708 \quad \checkmark$$

$$112 - 113 - \frac{1}{2} - = 4743 \quad \checkmark$$

$$113 - 114 - \frac{1}{2} \checkmark = 5432 \quad \checkmark$$

$$114 - 115 - \frac{1}{2} - = 4187 \quad \checkmark$$

$$115 - 116 - \frac{1}{8} \checkmark = 735 \quad \checkmark$$

$$\text{Total} = 26424 \quad \checkmark$$

Dredge No 11

October 1951

Dredge operated 31 days

dug 659 hrs. 35 min = 27.48 days = 88.65%
 lost 84 " 25 " = 3.52 " = 11.35%

Avg. Hgt. Bank = 3.0 ft.

Depth = 18.7 -

Total = 21.7 -

Surface $\frac{1250}{0413} \quad \frac{2090}{1250}$ $839 \times 17.67 = 14825 \text{ Sq. Yds.}$
 $\frac{837}{840}$

Bedrock $\frac{5998}{5177} \quad \frac{6795}{5988}$ $809 \times 17.67 = 14295$ ✓
 $\frac{811}{807}$ $\frac{29120}{29120}$

Avg Area = 14560 ✓

$$\frac{14560 \times 21.7}{3} = 105317 \text{ Cu. Yds.}$$

$$\frac{105317}{31} = 3397 \text{ Cu. Yds per day elapsed Time}$$

$$\frac{105317}{27.48} = 3832 \text{ } \checkmark \text{ running } \checkmark$$

Pond Blv - 1135.0

Claims dredged - 68-69.70 Below Hunter

Surface Area - 3.06 Acres.

Avg Width Cut - 170 Ft.

Length - 850 ✓

$$\frac{14825}{9}$$

133425

$$\frac{14295}{9}$$

158833

$$\frac{14560}{9}$$

161778

Thaw Writed

$$\text{Block } \sqrt{1} - \frac{975}{36} = 27.1 \quad \frac{0113}{975} = 363 \times \frac{\sqrt{.89}}{17.67} \times \frac{\sqrt{3.2}}{3} = 49731 \text{ Cu Yds}$$

$$\sqrt{0} - \frac{0123}{12} = 0.01 \quad \frac{0141}{0123} = 11.4 \times \frac{\sqrt{.89}}{17.67} \times \frac{\sqrt{3.2}}{3} = 2882 \text{ -}$$

$$\text{Total} = 52613 \text{ -}$$

Stripping Writed

$$\times 3 \text{ 106-107 - } \frac{1}{4} \text{ Remainder} = 7133 \text{ Cu Yds}$$

$$107-108 - \frac{1}{4} \text{ -} = 5504 \text{ -}$$

$$108-109 - \frac{1}{4} \text{ -} = 4880 \text{ -}$$

$$109-110 - \frac{1}{4} \text{ -} = 1687 \text{ -}$$

$$\text{Total} = 19204 \text{ -}$$

Dredge No. 11

Nov 1951

Shutdown Nov 18 - 1:30 p.m.

Dredge operated 17 days

- dug 356 hrs 50 min - 14.87 days = 87.46 %

- lost 51 - 10 - = 2.13 - = 12.52 %

Avg Net Bant = 5.5 Ft

- Depth = 16.6 -

Total = 22.1 -

$$\text{Surface} - \frac{8235}{7848} \quad \frac{8620}{8235} \quad 386 \times 17.67 = 6820 \text{ Sq. Yds.}$$

$$\frac{387}{387}$$

$$\text{Bedrock} - \frac{9002}{8621} \quad \frac{9387}{9002} \quad 383 \times 17.67 = \frac{6768}{13588}$$

$$\frac{381}{381}$$

$$\text{Avg Area} = 6794$$

$$6794 \times \frac{22.1}{3} = 50049 \text{ Cu. Yds.}$$

$$\frac{50049}{17} = 2944 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{50049}{1487} = 3366 \quad \text{running}$$

Pond Elev $\longrightarrow$ ice
 Claims dredged - 68 Below Hucker
 Surface area - 1.40 acres.
 Avg width - 200 Ft.
 Length - 320

$$\frac{6820}{9} \quad \frac{6768}{9} \quad \frac{6794}{9}$$

$$7578 \quad 7520 \quad 7549$$

Thaw Writeoff

Block 10

rr. 3

$$8973 \times 7.273 = 66327 \text{ Cu Yds.}$$

Strip Writeoff

$$X^{105} 102-103 - \frac{1}{2} \text{ Remainder} = 6208 \text{ Cu Yds}$$

$$103-104 - \checkmark = 6305 \checkmark -$$

$$104-105 - \checkmark = 6637 \checkmark -$$

$$105-106 - \checkmark = 7425 \checkmark -$$

$$106-107 - \frac{1}{5} \checkmark = 1427 \checkmark \checkmark$$

$$\underline{28002 \checkmark}$$

DREDGE No 11

MAY '52

Started May 3 - 8:45 AM

Dredge Operated 29 days

Dug 619 Hrs. 55 mins. = 25.83 days = 89.07%

Lost 76 05 = 3.17 = 10.93%

Avg. Ht. Bank = 4.4 ft.

Depth = 17.0

Total = 21.4

$$\begin{array}{r} \text{Surface} \\ \hline \begin{array}{r} 0597 \\ 0092 \\ \hline 505 \end{array} \quad \begin{array}{r} 1116 \\ 0597 \\ \hline 519 \end{array} \quad \begin{array}{r} 1620 \\ 1116 \\ \hline 504 \end{array} \quad 505 \times 17.67 = 8923.35 \text{ yds.}^2 \end{array}$$

$$\begin{array}{r} \text{Bedrock} \\ \hline \begin{array}{r} 2196 \\ 1690 \\ \hline 506 \end{array} \quad \begin{array}{r} 2700 \\ 2196 \\ \hline 504 \end{array} \quad 505 \times 17.67 = 8923.35 \end{array}$$

$$\text{Avg Area} = 8923$$

$$8923 \times \frac{21.4}{3} = 63,651 \text{ yds.}^3$$

$$\frac{63651}{29} = 2,195 \text{ yds.}^3 \text{ per day elapse time.}$$

$$\frac{63651}{25.83} = 2,464 \text{ running}$$

Pond Elev. - 1139.5
 Claims dredged - 67-68 Hunter
 Surface Area - 1.84 Acres
 Avg Width cut - 210 ft.
 Length - 400

$$\begin{array}{r} 8923 \\ 9 \\ \hline 80307 \end{array}$$

Thawing Writeoff

Block #48 - Remainder less 11444 Cu.Yds = 20072 Cu.Yds.

Stripping Writeoff

X² 97-98 - Remainder = 4371 Cu.Yds.

98-99 - = 9625 -

99-100 - = 10835 -

100-101 - $\frac{1}{2}$ ✓ = 5850 -

101-102 - $\frac{1}{2}$ ✓ = 6132 -

Total = 36813 ✓ ✓

Dredge N° 11

June 1952

Dredge operated 30 days

- dug 663 hrs 15 min = 27.64 days = 92.12 %

- lost 56 45 = 2.36 = 7.88 %

Avg Hgt Bank = 5.8 ft.

- Depth = 16.2

Total = 22.0

Surface	1206	2078			
	0340	1206	869 x 17.67	= 15355	sq Yds.
	866	872			

Bedrock	2970	3861	891 x 17.67	= 15743	
	2079	2970		= 31098	
	891	891			

Avg Area = 15549

$$15549 \times \frac{22.0}{3} = 114026 \text{ Cu. Yds.}$$

$$\frac{114026}{30} = 3800 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{114026}{27.64} = 4125 \text{ running}$$

Pond Elev - 1142.6

Claims dredged - 66-67 Below Hunter

Surface Area - 3.17 Acres.

Avg Width Cut - 240 ft.

Length - 590

15355	15743	15549
9	9	9
138195	141687	139941

Thaw Write off

Block 48 - Remainder

= 11444 Cu.Yds.

✓ 50 - ✓

= 144346 ✓

✓ 51 - $\frac{245 \times 75 \times 23.2}{27}$ = 15788 ✓

Total = 171578 ✓

Stripping WriteoffX² 100-101 - Remainder

= 5861 Cu.Yds.

101-102 ✓

= 6131 ✓

102-103 ✓

= 6207 ✓

103-104 ✓

= 6305 ✓

104-105 ✓

= 6637 ✓

105-106 ✓

= 7426 ✓

106-107 ✓

= 5707 ✓

107-108 $\frac{1}{3}$ ✓= 1835 ✓

Total = 46109 ✓

Dredge No. 11

July 1952

Dredge operated 31 days - 30 days for depth

Avg. 631 hrs. 05 min = 26.30 days = 84.82%

lost 112' 55' = 4.70' = 15.18%

Avg. Wet Bank = 3.2 ft.

Depth = 16.4 -

Total = 19.6 -

Surface

6889 8090

5683 6889

1206 1201

1204 x 17.67

= 21274 Sq. Yds.

Bedrock

9284 0471

8085 9284

1199 1187

1193 x 17.67

= 21080

21274

Avg. Area = 21177

7059

$$\frac{21177 \times 19.6}{3} = 138356 \text{ Cu. Yds.}$$
$$\frac{138356}{31} = 4463 \text{ Cu. Yds. per day elapsed time}$$
$$\frac{138356}{26.30} = 5260 \text{ running time}$$

Pond Elev = 1139.3

Claims dredged = 66-67-68 Below Hunter

Surface Area = 4.40 Acres

Avg Width = 230 ft.

Length = 800 -

21274	21080	21177
<u>9</u>	<u>9</u>	<u>9</u>
191466	189720	190593

Shave Writeoff

Block 57 - Remainder

= 6862 Cu.Yds.

✓ ✓ - ✓

= 81058 ✓

✓ ✓ 3 - $\frac{200 \times 160 \times 23.3}{27}$ = 27614 ✓

Total = 177334 ✓

Stripping Writeoff

X2 107-108 - Remainder

= 3669 Cu.Yds.

108 - 109 - ✓

= 4881 ✓

109 - 110 - ✓

= 5062 ✓

110 - 111 - ✓

= 4246 ✓

111 - 112 - ✓

= 3709 ✓

112 - 113 - ✓

= 4742 ✓

113 - 114 - ✓

= 5431 ✓

114 - 115 - ✓

= 4187 ✓

115 - 116 - $\frac{1}{2}$ ✓

= 2560 ✓

116 - 117 - $\frac{1}{4}$ ✓= 1654 ✓

Total = 40141 ✓

Dredge No 11

Aug 1952

Dredge operated 31 days

✓ dug 673 hrs. 55 min = 28.08 days = 90.58 %

✓ lost 40 " 05 " = 2.92 " = 9.42 %

Avg Hgt Bank = 3.2 ft

✓ Depth = 14.1

Total = 19.3

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 8761 \\ 7448 \\ \hline 1313 \end{array} \begin{array}{r} 0070 \\ 8761 \\ \hline 1309 \end{array} \end{array}$$

$$1311 \times 17.67 = 23165 \quad 5 \text{ yds}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 1357 \\ 0070 \\ \hline 1287 \end{array} \begin{array}{r} 2643 \\ 1357 \\ \hline 1286 \end{array} \end{array}$$

$$1286 \times 17.67 = 22723$$

$$\sqrt{45888}$$

$$\text{Avg Area} = 22944$$

$$\begin{array}{r} 7648 \\ 22944 \times 19.3 \\ \hline 3 \end{array} = 147606 \text{ Cu. Yds.}$$

$$\frac{147606}{31} = 4761 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{147606}{28.08} = 5257 \quad \text{running } \checkmark$$

Pond Elev - 1132.2

Claims dredged - 28-29-70 Below

Surface area - 4.79 Acres

Avg Width Cut - 220 ft.

✓ Length - 950

$$\begin{array}{r} 23165 \\ 9 \\ \hline 208485 \end{array}$$

$$\begin{array}{r} 22723 \\ 9 \\ \hline 204507 \end{array}$$

$$\begin{array}{r} 22944 \\ 9 \\ \hline 206496 \end{array}$$

Thaw Writoff

$$\text{Block } \checkmark 3 - \frac{7960}{521} \frac{8483}{523} \frac{174}{522} \times 17.67 \times 23.3 = 77732 \text{ Cu Yds.}$$

$$\text{Block } \checkmark 4 - \frac{8754}{527} \frac{9280}{526} \frac{7.5}{527} \times 17.67 \times 22.5 = 69564 \checkmark$$

$$\text{Total} = 147296 - \checkmark$$

Strip Writoff

$\checkmark 116-117$	-	$\frac{1}{4}$ Remainder		=	1240 Cu Yds.
117-118	-	$\frac{1}{2}$	-	=	3263 -
118-119	-	$\frac{1}{2}$	-	=	2078 -
119-120	-	$\frac{3}{4}$	-	=	1617 -
120-121	-	$\frac{4}{5}$	-	=	2320 -
121-122	-	$\frac{3}{4}$	-	=	1914 -
122-123	-	$\frac{1}{2}$	-	=	893 -
123-124	-	$\frac{1}{6}$	-	=	273 -

$$\text{Total} = 13598 - \checkmark$$

Dredge No. 11

September 1952

Dredge operated 30 days

- digger hrs 20 min = 27.14 days = 90.46 %

- lost 18 - 40 = 2.86 = 9.54 %

Avg Hgt Bank 5.6 ft

- Depth - 2.6 ft

Total - 27.2 ✓

$$\begin{array}{r} \text{Surface} - \begin{array}{r} 8501 \\ 7434 \\ \hline 1071 \end{array} \quad \begin{array}{r} 9572 \\ 8501 \\ \hline 1067 \end{array} \quad 1069 \times 17.67 = 18889 \text{ Sq Yds.} \end{array}$$

$$\begin{array}{r} \text{Bedrock} - \begin{array}{r} 0561 \\ 9560 \\ \hline 1005 \end{array} \quad \begin{array}{r} 1560 \\ 0561 \\ \hline 999 \end{array} \quad 1002 \times 17.67 = 17705 \\ \checkmark \quad \boxed{36594} \end{array}$$

$$\text{Avg Area} = 18297 \quad \checkmark$$

$$\begin{array}{r} \text{Logg} \\ 18297 \times 27.2 = 165893 \text{ Cu. Yds.} \\ \hline 3 \end{array}$$

$$\frac{165893}{30} = 5530 \text{ Cu. Yds. per day elapsed time.}$$

$$\frac{165893}{27.14} = 6112 \quad \checkmark \quad \checkmark \quad \text{running} \quad \checkmark$$

Pond Elev - 1329.5 1129.5
 Claims dredged - 70-71-71A Below Hunter
 Surface Area - 3.90 Acres.
 Avg Width - 190 Ft.
 - Length - 960 ✓

$$\begin{array}{r} 18889 \\ 9 \\ \hline 170001 \end{array} \quad \begin{array}{r} 17705 \\ 9 \\ \hline 159345 \end{array} \quad \begin{array}{r} 18297 \\ 9 \\ \hline 164673 \end{array}$$

Thawing Writeoff

$$\begin{array}{rcl} \text{Block \#53} - \text{Remainder} - 240 \times 65 \times 23.3 & = & 75154 \text{ Cu. Yds.} \\ 23.3 & (88616) & \\ & (13461) & \end{array}$$

Stripping Writeoff

Lin-116 - Remainder		=	2561 Cu. Yds.	
116-117 -	✓	=	3921	✓
117-118 -	✓	=	3263	✓
118-119 -	$\frac{3}{4}$ ✓	=	1560	✓
119-120 -	$\frac{2}{3}$ ✓	=	718	✓
Total		=	11823	✓

Dr #11 - October 1952

Dredge operated 31 days

$$- \text{Aug } 181 \text{ hrs } 30 \text{ min} = 28.40 \text{ days} = 91.60 \text{ } \checkmark$$
$$- \text{cost } 6\% \times 30 = 2.60 = 8.40\%$$

Avg Hgt Bank = 5.1 Ft.

$$\frac{1}{2} \text{ Depth} = 18.9$$

Total = 24.0 ✓

Surface $\begin{array}{r} 0121 \\ 9385 \\ \hline 736 \end{array}$ $\begin{array}{r} 0855 \\ 0121 \\ \hline 734 \end{array}$ $735 \times 17.67 = 12987 \text{ g/ds}$

Bedrock

1609	7358	3100	
0851	1609	7358	746 x 17.67 = 13181 ✓
758	746	745	

Avg Area 13084 ✓

$$13084 \times \frac{8.0}{3} = 104672 \text{ Cu.Yds}$$
$$\frac{104672}{31} = 3377 \text{ Cu. Yds. per day elapsed time}$$

$\frac{104672}{28.40} = 3686$ running

Pond Elev 1129.1
Claims dredged - 69-70 Below Hunter
Surface Area = 2.68 Acres
Avg Width = 150 Ft.
Length = 725'

12987	13181	13084
9	9	9
116883	118629	117756

Thaw Writeoff

Block 13. Remainder

= 13462 Cu. Yds.

Block 14 -
22.5
$$\begin{array}{r} 9181 \\ 8737 \\ \hline 444 \end{array}$$

$$\begin{array}{r} 9631 \\ 9181 \\ \hline 450 \end{array}$$

$$447 \times 17.67 \times \frac{7.5}{3}$$

= 59235 -

Total = 72697

Stripping WriteoffX^o 118-119. Remainder

= 518 Cu. Yds.

119-120 - ✓

= 358 -

120-121 - ✓

= 576 -

121-122 - ✓

= 630 ✓

122-123 - ✓

= 892 ✓

123-124 - 5/6 ✓

= 1150 ✓

124-125 - 1/3 ✓

= 507 ✓

Total = 4631 ✓

Pond Elev	-	1129.0
Claims dredged	-	70-71-71A
Surface Area	-	2.49 Acres.
Avg width	-	190 ft
Length	-	620 -

Dredge #1: 11 November 1955
 Shutdown for season Nov 28. 8:30 AM

Dredge operated 27 days
 ✓ dug 583 hrs. O min = 24.29 days = 89.97%
 ✓ lost 65 - O - = 2.71 - = 10.03%
 Avg Hgt Bank = 3.6 ft
 Depth = 22.2 - Depth in BR. 6.5 ft.
 Total = 25.8 -

Surfaces - $\frac{1362}{0680} \frac{2046}{1362} \frac{683 \times 17.67}{684} = 12069 \text{ Sq Yds.}$

Bedrock - $\frac{2700}{2043} \frac{3345}{2700} \frac{671 \times 17.67}{645} = \frac{11503}{23572}$
 Avg Area = 11786

$11786 \times \frac{8.6}{25.8} = 101360 \text{ Cu Yds}$

$\frac{101360}{27} = 3754 \text{ Cu Yds. per day elapsed time.}$

$\frac{101360}{24.29} = 4173 \text{ - running -}$

Redug Tails - Surfaces $\frac{3570}{3491} \frac{3600}{3570} \frac{80 \times 17.67}{79} = 1414 \text{ Sq Yds.}$

Bedrock $\frac{3745}{3676} \frac{3816}{3745} \frac{70 \times 17.67}{69} = \frac{1236}{2650}$

$1325 \times \frac{8.6}{25.8} = 11395 \text{ Cu Yds.}$

Avg Area = 1325

	Surfaces	Bedrock	Average	Cu Yds
Total	12069	11503	11786	101360
Tailings	1414	1236	1325	11395
Virgin	10655	10267	10461	89965

Total	Tailings	Virgin
108621 103527 106074	12726 11124 11925	95895 92203 94149

Shaw Whiteoff

$$\text{Block out} - 848 \times \frac{7.5}{3}$$

$$= 6360 \text{ Cu Yds.}$$

Strip Whiteoff

$$\text{Ln } 124-125 - \frac{1}{5} R$$

$$= 203 \text{ Cu Yds.}$$

$$\text{Ln } 125-126 - \frac{1}{12} R$$

$$\begin{array}{r} = 141 \\ \hline \text{total} = 344 \end{array}$$

Dredge No. 11

April 1953
Started Apr 27 - 10:00 AM

Dredge operated 4 days

$$\text{Avg } 86 \text{ hrs. } 20 \text{ min} = 3.60 \text{ days} = 89.93 \%$$

$$\text{lost } 9 - 40 = 0.40 = 10.07 \%$$

$$\text{Avg Hgt Bank} = 1.7 \text{ ft.}$$

$$\text{Depth} = 17.3$$

$$\text{Total} = 19.0$$

$$\begin{array}{r} \text{Surface} \quad 0271 \quad 0319 \\ \quad 0223 \quad 0271 \\ \hline \quad 48 \quad 48 \end{array}$$

$$48 \times 17.67 = 848 \text{ Cu. Yds.}$$

$$\begin{array}{r} \text{Bedrock} \quad 0357 \quad 0410 \\ \quad 0310 \quad 0357 \\ \hline \quad 47 \quad 53 \end{array}$$

$$50 \times 17.67 = 884$$

$$\sqrt{1732}$$

$$\text{Avg Area} = 866$$

$$866 \times \frac{19.0}{3} = 5484 \text{ Cu. Yds.}$$

$$\frac{5484 \times}{4} = 1371$$

$$\frac{5484}{3.60} = 1523$$

Pond Elev 1129.1

Claims dredged 71A Below Hunter Rev

Surface area = 0.17 Acres

Avg width cut = 30 ft

Length = 210 ft

$$\begin{array}{r} 848 \\ 9 \\ \hline 7632 \end{array} \quad \begin{array}{r} 884 \\ 9 \\ \hline 7956 \end{array} \quad \begin{array}{r} 866 \\ 9 \\ \hline 7796 \end{array}$$

Shaw V/O

Block 54 - Remainder

= 31243 Cu Yds

✓ 55 - $\frac{1}{3}$ ✓

= 24407 -

Total = 55650

Stripping V/O1st 123-124

Remainder

= 218 Cu Yds

1st 125-126

Remainder

= 812 -

125-126

✓

= 1555 ✓

126-127

✓

= 2078 -

127-128

 $\frac{1}{3}$

✓

= 868 -

Total

= 5591 ✓

Dredge No. 11

May 1953

Dredge operated 31 days

dug 660 hrs 0 min = 27.5 days = 88.71 %
 lost 84 " 0 " = 3.5 " = 11.29 %

Avg Hat Bank = 5.6 ft.

Depth = 18.4 "

Total = 24.0 "

Surface

1771	2258	2759
1365	1771	2258
406	487	501

504 x 17.67 = 8906 Sq. Yds

Bedrock

3233	3717
2757	3233
476	484

480 x 17.67 = 8482
 2 17388

Avg Area = 8694

$8694 \times \frac{8}{3} = 69552$ Cu. Yds.

$\frac{69552}{31} = 2244$ Cu. Yds. per day elapsed time

$\frac{69552}{27.5} = 2529$ " " running "

Pond Flow - 1126.4

Claims dredged - 71A - 72 Hunker

Surface area = 1.84 Acres

Avg width cut = 160 ft.

Length = 320 "

8906	8482	8694
9	9	9
80154	76338	78246

(5.5)

Shaw Whiteoff

Block 55 - Remainder

= 48815 CuYds

✓ 56 - $\frac{1}{3}$ -

= 22641 ✓

Total = 71456

Stripping Whiteoff

X² 127-128 - Remainder

= 1736 CuYds

128-129 -

= 2018 ✓

129-130 -

= 1789 -

130-131 ✓

= 3137 -

131-132 ✓

= 3015 -

132-133 ✓

= 2100 -

Total = 13795 -

Dredge No. 11

June 1953

Dredge operated 30 days

dug 657 hrs. 20 min = 27.39 days = 91.30%

lost 62 - 40 = 2.61 = 8.70%

Avg Hat Bank = 3.6 ft.

Depth = 17.3

Total = 20.9

Surface	1908	2550
	1269	1908
	<u>639</u>	642

640 x 17.67 = 11309 Sq. Yds.

Bedrock	3153	3758
	2560	3153
	<u>593</u>	605

600 x 17.67 = 10602

21911
<u>10956</u>

Avg Area

3652

$10956 \times \frac{20.9}{3} = 76327 \text{ Cu. Yds.}$

$\frac{76327}{30} = 2544 \text{ Cu. Yds. per day elapsed time}$

$\frac{76327}{27.39} = 2787$

- running -

Pond Floor

1120.1

Clams dredged

42-73 Hunter

Surface Area

2.33 Acres

Avg Width cut

175 ft

Length

550 -

11309
<u>9</u>
101781

10602
<u>9</u>
95418

10955
<u>9</u>
98595

Shaw Whitcoff

Block 16 - Remainder

= 45283 Cu Yds.

$$\checkmark \quad \checkmark 7 - \frac{185 \times 225 \times 18.6}{27}$$

= 28675

Total = 73958

Stripping Whitcoff

X2 133-134 - Remainder

= 3163 Cu Yds

134-135

✓

= 4359 -

135-136

✓

= 3308 ✓

136-137

✓

= 3541 ✓

137-138

✓

= 6296 ✓

Total = 20667 ✓

Dredge No 11 July 1953

Dredge operated 31 days

✓ dug 678 hrs 55 min = 28.29 days = 91.25 %

✓ lost 65 / 05 = 2.71 = 8.75 %

Avg Hgt Bank = 2.6 Ft.

✓ Depth = 16.3

Total = 18.9

Surface

6005	6769		
5247	6005	761 x 17.67	= 13447 Sq. Yds.
758	764		

Bedrock

7477	8178		
6778	7477	700 x 17.67	= 12369 Sq. Yds.
699	701		

✓ 125816

Avg Area = 12908

$$12908 \times \frac{18.9}{2} = 81820 \text{ Cu. Yds. ?}$$

$$\frac{81820}{31} = 2623 \text{ Cu. Yds per day elapsed time}$$

$$\frac{81820}{28.29} = 2875 \text{ running}$$

Pond Elev - 1113.0
 Claims dredged - 73.74 Hunter
 Surface Area - 2.78 Acres
 Avg Width - 250 Ft.
 Length - 500 ✓

13447	12369	12908
9	9	9
121023	111321	116172

	9028	0700	1520
Blocking -	<u>8190</u>	9880	<u>0700</u>
18.6	828	820	820

$$820 \times 17.67 \times \frac{4.1}{2} = 88383$$

Strip Writoff

✓ ¹⁰ 138-139 -	Remainder	=	8082	✓	Cu Yds.
139-140	✓	=	9781	✓	
140-141	✓	=	12881	✓	
141-142	✓ ¹²	=	8197	✓	
			Total =	38941	✓

Dr. #11

August 1913

Dredge operated 31 days

dug 678 hrs. 0 min = 28.75 days = 91.13 %
 lost 66 - 0 = 2.75 - = 8.87 %

Avg Hgt Bank = 3.4 ft.

Depth = 13.3

Total = 16.7

(7.0)

Surface $\begin{array}{r} 3522 \\ 2645 \\ \hline 877 \end{array}$ $\begin{array}{r} 4404 \\ 3522 \\ \hline 882 \end{array}$ $880 \times 17.67 = 15550 \text{ Sq. Yds.}$

Bedrock $\begin{array}{r} 5234 \\ 11397 \\ \hline 837 \end{array}$ $\begin{array}{r} 6070 \\ 5234 \\ \hline 836 \end{array}$ $837 \times 17.67 = 14790$
 $\begin{array}{r} 14790 \\ 30340 \\ \hline \end{array}$

Avg Area = 15170

$$15170 \times \frac{16.7}{3} = 84446 \text{ Cu. Yds.}$$

$$\frac{84446}{31} = 2724 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{84446}{28.75} = 2939 \text{ - running -}$$

Pond Elev - 1112.9
 Claims dredged - 74-75 Hunter
 Surface Area - 3.21 Acres
 Avg width - 360 Ft.
 length - 300

$\begin{array}{r} 15550 \\ 9 \\ \hline 139950 \end{array}$ $\begin{array}{r} 14790 \\ 9 \\ \hline 133110 \end{array}$ $\begin{array}{r} 15170 \\ 9 \\ \hline 136530 \end{array}$

Thaw Writeoff

Block 57 - Remainder	=	14401 Cu Yds.	
✓ 58 - $350 \times \frac{410}{27} \times 18.9$ (100450)	=	106330	✓
+ $70 \times \frac{170}{27} \times 18.9$ (1880)			
Total	=	120731	✓

Strip Writeoff

X2 141-142 - Remainder	=	8196 Cu Yds.	
✓ 142-143 - $\frac{2}{3}$	=	11884	✓
✓ 143-144 - $\frac{2}{3}$	=	12782	✓
✓ 144-145 - $\frac{3}{5}$	=	<u>12330</u>	✓
Total	=	45192	✓

Dredge N^o 11 - September 1913

Dredge operated 30 days

- dug 650 hrs. 40 min. = 27.11 days = 90.37 %
 - lost 69 - 20 - = 2.89 - = 9.63 %

Avg Hgt. of Bank = 3.1 ft.

Depth = 15.2 -

Total = 18.3 -

(6.7)

Surface $\begin{array}{r} 6175 \\ 5140 \\ \hline 10315 \end{array}$ $\begin{array}{r} 7208 \\ 6175 \\ \hline 10333 \end{array}$ $1034 \times 17.67 = 18270 \text{ Sq. Yds.}$

Bedrock $\begin{array}{r} 8186 \\ 7191 \\ \hline 995 \end{array}$ $\begin{array}{r} 9176 \\ 8186 \\ \hline 990 \end{array}$ $993 \times 17.67 = 17546$
 $\underline{35816}$

Avg Area = 17908 -

$\begin{array}{r} 6.1 \\ 17908 \times 18.3 \\ \hline 3 \end{array} = 109239 \text{ Cu Yds.}$

$\frac{109239}{30} = 3641 \text{ Cu. Yds per day elapsed time}$

$\frac{109239}{27.11} = 4029 \text{ - running -}$

Pond Elev 110.9

Claims dredged - 75 Below Hunter

Surface Area - 3.77 Acres

Avg. Width - 300 Ft

Length - 450

$\begin{array}{r} 18270 \\ 9 \\ \hline 164430 \end{array}$ $\begin{array}{r} 17546 \\ 9 \\ \hline 157914 \end{array}$ $\begin{array}{r} 17908 \\ 9 \\ \hline 161172 \end{array}$

Thaw Writeoff

$$\begin{array}{r} \text{Block } \checkmark 8 - \begin{array}{r} 703\checkmark \\ 674\checkmark \\ \hline 790 \end{array} \quad \begin{array}{r} 7819 \\ 703\checkmark \\ \hline 787 \end{array} \end{array}$$

$$789 \times 17.67 \times \frac{18.9}{3} = 87942 \text{ Cu. Yds.}$$

$$\begin{array}{r} \text{Block } \checkmark 9 - \begin{array}{r} 7156 \\ 7054 \\ \hline 102 \end{array} \quad \begin{array}{r} 7156 \\ 7156 \\ \hline 109 \end{array} \end{array}$$

$$106 \times 17.67 \times \frac{18.9}{3} = 11766$$

$$\text{Total} = 99708$$

Strip Writeoff

$$\checkmark 2 \quad 1442 - 1443 - \text{Remainder}$$

$$= 5942 \text{ Cu. Yds.}$$

$$1443 - 1444 \quad \checkmark$$

$$= 6391 \quad \checkmark$$

$$1444 - 1445 \quad \checkmark$$

$$= 8222 \quad \checkmark$$

$$1445 - 1446 \quad \frac{1}{2} \checkmark$$

$$= 12076 \quad \checkmark$$

$$1446 - 1447 \quad \frac{1}{2} \checkmark$$

$$= 13776 \quad \checkmark$$

$$46407 \quad \checkmark$$

Dr #11

October 1953

Dredge operated 31 days

dug 601 hrs 45 min = 25.08 days = 80.88 cu yds
 lost 142 " 15 " = 5.92 " = 19.22 cu yds

Avg Hgt Bank = 3.4 ft

Depth = 12.5 "

Total = 15.9 "

(7.2)

Surface

$$\begin{array}{r} 9483 \\ 8570 \\ \hline 913 \end{array}$$

$$\begin{array}{r} 9375 \\ 9483 \\ \hline 892 \end{array}$$

$$\begin{array}{r} 1279 \\ 9375 \\ \hline 904 \end{array}$$
 $903 \times 17.67 = 15956 \text{ Sq Yds}$

Bedrock

$$\begin{array}{r} 2161 \\ 1274 \\ \hline 887 \end{array}$$

$$\begin{array}{r} 3043 \\ 2161 \\ \hline 882 \end{array}$$
 $885 \times 17.67 = 15638$ 2×31594

Avg Area = 15797

$$15797 \times 15.9 = 83724 \text{ Cu Yds}$$

$$\frac{83724}{31} = 2700 \text{ Cu Yds per day elapsed time}$$

$$\frac{83724}{25.08} = 3338 \text{ running}$$

Dr. spent 8 hrs 30 min (11.09%) digging thru reef
 on Right Limit

Pond Elev

Claims dredged - 75-76 Below Hunter

Surface Area - 3.30 Acres

Avg width Cut - 240 ft.

Length - 520 "

$$\begin{array}{r} 15916 \\ 9 \\ \hline 143604 \end{array}$$

$$\begin{array}{r} 15638 \\ 9 \\ \hline 140742 \end{array}$$

$$\begin{array}{r} 15797 \\ 9 \\ \hline 142173 \end{array}$$

Thaw Whiteall

$$\text{Block } \checkmark 8 - \frac{125 \times 135 \times 18.9}{27} = 11812 \text{ Cu Yds.}$$

$$\checkmark 9 - \frac{125 \times 135 \times 18.9}{3} = 7887 \checkmark$$

$$\text{Total} = 19699 \checkmark$$

Strip Whiteall

$$\checkmark 145-146 - \frac{1}{4} \text{ Remainder} = 3019 \text{ Cu Yds.}$$

$$146-147 - \frac{1}{4} \checkmark = 3444 \checkmark$$

$$\text{Total} = 6463$$

Dredge No. 11

Nov 1913
Shut down Nov 10 - 8:00 PM

Dredge operated 9 days

✓ dug 12 hr hrs 45 min = 5.75 days = 58.25 %
✓ lost 90 - 15 = 3.76 = 41.78 %

Avg Stat Bank = 0.8 ft

Depth = 15.3

Total = 16.1

(5.8)

Surface - $\begin{array}{r} 0515 \\ 0339 \\ \hline 176 \end{array}$ $\begin{array}{r} 0643 \\ 0575 \\ \hline 178 \end{array}$ $177 \times 17.67 = 3127$ Sq. Yds.

Bedrock - $\begin{array}{r} 0875 \\ 0700 \\ \hline 175 \end{array}$ $\begin{array}{r} 1050 \\ 0875 \\ \hline 175 \end{array}$ $175 \times 17.67 = 3092$
 $\sqrt{6219}$

Avg Area = 3110

 $3110 \times \frac{16.1}{3} = 16690$ Cu. Yds $\frac{16690}{9} = 1854$ Cu. Yds. per day elapsed time $\frac{16690}{5.75} = 2885$ ✓ running ✓

Pond Elev

Claims dredged - 75-76 Bel. Hunter

Surface area - 0.65 Acres

Avg width cut - 200 Ft

✓ Length - 125 ✓

$\begin{array}{r} 3127 \\ 9 \\ \hline 28143 \end{array}$	$\begin{array}{r} 3092 \\ 9 \\ \hline 27828 \end{array}$	$\begin{array}{r} 3110 \\ 9 \\ \hline 27990 \end{array}$
--	--	--

Thaw Writeoff

$$\text{Block } \checkmark 8 - \frac{150 \times 170 \times 18.9}{27} = 17850 \text{ CuYds.}$$

$$\checkmark 60 - \frac{180 \times 65 \times 19.9}{27} = 8623 \quad \checkmark$$

$$\text{Total} = 26473 \quad \checkmark$$

Stripping Writeoff

$$\checkmark 145 - 146 - \frac{1}{2} \text{ Remainder} = 4528 \text{ CuYds}$$

$$\checkmark 146 - 147 - \frac{1}{2} \quad \checkmark = 5166 \quad \checkmark$$

$$\text{Total} = 9694 \quad \checkmark$$

Dredge #11

May 1912
Started May 4 - 9:30 AM

Dredge operated 28 days

✓ dug 589 hrs 05 min = 24.55 days = 87.66 %

✓ lost 82 ✓ 55 ✓ = 3.45 ✓ = 12.34 %

Avg Hgt Bank = 3.5 Ft.

✓ Depth = 15.7 ✓

Total ✓ = 19.2 ✓

(6.1)

Surface

3566	3793	4016
3347	3566	3793
219	227	223

223 x 17.67 = 3940.5 Cu Yds

Bedrock

4255	4477
4030	4255
225	222

224 x 17.67 = 3958

7898

Avg Area = 3949

$$3949 \times \frac{6.1 \times 19.2}{3} = 25274 \text{ Cu Yds}$$

$$\frac{25274}{26} = 903 \text{ Cu Yds per day elapsed time}$$

$$\frac{25274}{24.55} = 1029 \text{ ✓ running ✓}$$

Pond Eley - 1108.4

Claims dredged - 76 Bel. Hunter

Surface Area = 0.81 Acres

Avg Width cut = 200 Ft.

✓ Length = 170 ✓

3940	3958	3949
9	9	9
35460	35622	35541

Tham Writeoff

Block 48 - Remainder = 18874 Cu.Yds.

Block 60 - $\frac{303 \times 310 \times 19.9}{27}$

= 69230 ✓

Total = 188104 ✓

Strip Writeoff

No 145-142 - Remainder

= 4529 Cu.Yds

146-147- ✓

= 5166 ✓

147-148

$\frac{1}{3}$ ✓

= 9330 ✓

148-149

$\frac{1}{3}$ ✓

= 9788 ✓

149-150

$\frac{1}{6}$ ✓

= 5346 ✓

Total = 34159 ✓

Dredge No. 11

June 1954

Dredge operated 30 days

dug 657 hrs. 55 min = 27.41 days = 91.38 %

lost 6 hr - 05 min = 2.59 = 8.62 %

Avg Hgt Bank = 5.8 ft.

Depth = 14.6

Total = 20.41

(6.7)

Surface

5078	5901
4252	5078
826	823

825 x 17.67

= 14578 Sq. Yds

Bedrock

6677	7470
5890	6677
787	793

780 x 17.67

= 13782 ✓

✓ 28360

Avg Area

= 14180

$$14180 \times \frac{6.8}{20.4} = 46424 \text{ Cu. Yds}$$

$$\frac{46424}{30} = 3214 \text{ Cu. Yds per day elapsed time}$$

$$\frac{46424}{27.41} = 3518 \quad \checkmark \quad \text{running} \quad \checkmark$$

Pond Elev 1105.7

Claims dredged 75-76-76A

Surface area - 3.00 Acres

Avg Width - 225 ft.

Length - 570

14578
9
131202

13782
9
124038

14180
9
127620

Tham Writcoff

$$\text{Block} - 60 - \frac{250 \times 100 \times 189}{19.9 \times 27} = 17500 \text{ C/s}$$

$$\text{Block} - 19 - \frac{4517}{3604} \quad \frac{5420}{4517} \quad 908 \times 1767 = \frac{5348}{16044 \times 19.9} = 106425 -$$

$$\text{Total} = 123925 -$$

Strip Writcoff

$$\sqrt{2} \text{ 147-148- Remainder} = 18659 \text{ C/s}$$

$$\text{1 148-149} = 19575 -$$

$$\text{1 149-150 } \frac{1}{2} = \underline{13414} -$$

$$\text{Total} = 51648 \checkmark$$

Dr. # 11

July 1952

Dredge operated 31 days

✓ dug 659 hrs. 35 min = 27.48 days = 88.65 %
 ✓ lost 84 " 25 " = 3.5 " = 11.35 %

Avg. Hgt Bank = 5.9 ft

✓ Depth = 13.3 "

Total = 19.2 "

(7.1)

Surface

3719	4762
2637	3719
1082	1073

1078 × 17.67 = 19048 3/4 Yds.

Bedrock

5825	6932
4788	5825
1077	1067

1072 × 17.67 = 18942

2 37990

Avg Area = 18995 ✓

$$18995 \times \frac{19.2}{3} = 121568 \text{ Cu. Yds.}$$

$$\frac{121568}{31} = 3922 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{121568}{27.48} = 4424 \text{ } \quad \text{--- running ---}$$

Road Elev - 1107.5

Claims dredged - 76-76 A

Surface Area - 3.94 Acres.

Avg Width - 250 ft

✓ Length - 270 ✓

19048
9

17143 ✓

18942
9

170478

18995
9

170955

Tham Writout

Block 59 - Remainder

= 60717 Cu Yds.

$$\text{Block 61} - \frac{600 \times 75 \times 20.8}{20.8} = 34,569$$

$$- 60 - \frac{180 \times 260 \times 19.9}{19.9} = 34,458$$

$$- 62 - \frac{240 \times 85 \times 20.0}{20.0} = 15,072$$

$$\text{Total} = 144,816 \text{ Cu Yds.}$$

Strip WritoutXⁿ 149-150 - Remainder

= 13414 Cu Yds.

$$- 150 \times 151 - 80\% = 31,247$$

$$- 151 - 152 - 80\% = 35,790$$

$$\text{Total} = 80,451$$

Dredge #11

August 1954

Dredge operated 31 days

✓ dug 676 hrs 30 min = 28.19 days = 90.93 %
 ✓ lost 67 - 30 - = 2.81 - = 9.07 %

Avg Hgt Bank = 2.9 Ft.

✓ Depth = 14.7 ✓

Total - = 17.6

(L.Y.)

Surface

6605	7924
<u>5286</u>	<u>6605</u>
1319	1319

1319 x 17.67 = 23306 5/10

Bedrock

9206	499
<u>7914</u>	<u>9206</u>
1292	1293

1293 x ✓ = 22847 ✓

2/46113

Avg Area = 23077 ✓

$\frac{23077 \times 17.6}{3} = 135385 \text{ Cu. Yds.}$

$\frac{135385}{31} = 4367 \text{ Cu. Yds. per day elapsed time}$

$\frac{135385}{28.19} = 4803 \text{ ✓ running ✓}$

Pond Elev - 1104.8

Claims dredged - 76 A Hunter

Surface area - 4.82 Acres

Avg width - 250 Ft.

Length - 850 ✓

23306

9

209254

22847

9

205623

23077

9

207693

Thaw Writeoff

Block 60 - Remainder = 32865 Cu.Yds.

$$\text{Block 62} - \frac{1155 \times 250 \times 20.0}{27} + \frac{220 \times 70 \times 20.0}{27} = 95666 -$$

$$\text{Total} = 128531 \checkmark$$

3 Trip W/O

X² 150 - N7 - Remainder = 7812 Cu.Yds.

151 - 152 - = 8948 ✓

152 - 153 - 2/5 ✓ = 19770 ✓

153 - 154 - 2/5 ✓ = 21888 ✓

154 - 155 - 1/5 ✓ = 11190 ✓

Total = 69608 ✓

Dr. No. 11

September 1912

Dredge operated - 30 days

✓ dug 643 hrs. 30 min = 26.8 days = 89.40%

✓ lost 76 - 40 = 3.18 = 10.60%

Avg Hgt Bank = 4.1 ft.

Depth = 15.9

Total = 20.0

(C.1)

$$\begin{array}{r} \text{Surface} - \quad \begin{array}{r} 2633 \\ 1578 \\ \hline 1055 \end{array} \quad \begin{array}{r} 3694 \\ 2633 \\ \hline 1061 \end{array} \end{array}$$

$$1058 \times 17.67 = 18695 \text{ Sq Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \quad \begin{array}{r} 4730 \\ 3700 \\ \hline 1030 \end{array} \quad \begin{array}{r} 4730 \\ 4730 \\ \hline 1733 \end{array} \end{array}$$

$$1032 \times 17.67 = 18235$$

$$\begin{array}{r} 18235 \\ 36930 \\ \hline \end{array}$$

$$\text{Avg Area} = 18465$$

$$\begin{array}{r} 6155 \\ 18465 \times 20.0 = 123100 \text{ Cu. Yds} \\ \hline 3 \end{array}$$

$$\frac{123100}{30} = 4103 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{123100}{26.82} = 4590 \quad \text{✓} \quad \text{running}$$

Pond Elev - 1100.9

Claims dredged - 76 A - 77

Surface Area - 3.86 Acres

Avg width - 250 ft

Length - 265 ✓

$$\begin{array}{r} 18695 \\ 9 \\ \hline 168255 \end{array} \quad \begin{array}{r} 18235 \\ 9 \\ \hline 164115 \end{array} \quad \begin{array}{r} 18465 \\ 9 \\ \hline 166185 \end{array}$$

Tham W/O

$$\begin{array}{r} \text{Block 61} - 18995 \times 20.8 = 131699 \text{ C.Y.DS} \\ \hline 20.8 \quad \quad \quad \times 3 \end{array}$$

Strip W/O

$$\begin{array}{rcl} \text{N2 - N3 - Remainder} & = & 29656 \text{ C.Y.DS} \\ \text{N3 - N4} & = & 32831 \\ \text{N4 - N5} & = & 26856 \\ \hline \text{Total} & = & 89343 \end{array}$$

Dredge No. 11

October 1912

Dredge operated 31 days

✓ dug 183 hrs. 40 min = 28.49 days = 91.89 2

✓ lost 60 " 20 " = 2.51 " = 8.11 2

Average Bank = 5.3 Ft.

Depth = 15.4 "

Total = 20.7 "

(6.7)

Surface

0827

1903

9753

0827

1074

1076

1075 x 17.67

= 18995 Sq. Yds

Bedrock

2960

4027

1896

2960

1064

1067

1066 x 17.67

= 18836 "

37831

Avg Area

= 18916 "

$$18916 \times \frac{6.9}{20.7} = 130520 \text{ Cu Yds}$$

$$\frac{130520}{31} = 4210 \text{ Cu Yds. per day elapsed time}$$

$$\frac{130520}{28.49} = 4581 \text{ " running ✓}$$

Pond Floor

1104. ✓

Claims dredged 76 A - 77

Surface area - 3.92 Acres

Avg Width - 250 Ft.

Length - 650 "

18995

18836

18916

9

9

9

170955

169522

170244

Shaw W/O

$$\text{Block 61 - Remainder} = \frac{370 \times 120}{1} \times 70.8$$

$$= 66528 \text{ CuYds.}$$

$$62 - 50 \times 120 \times 70.0$$

$$= 6296 -$$

$$63 - 250 \times 70 \times 21.3$$

$$= 13806 -$$

$$64 - 45 \times 70 \times 70.7$$

$$= 2415 -$$

$$\text{Total} = 89045 -$$

Strip W/O

$$2154-2155 - \text{Remainder}$$

$$= 17906 \text{ CuYds.}$$

$$2155-2156 - \frac{2}{3} -$$

$$= 38646 -$$

$$2156-2157 - \frac{1}{4} -$$

$$= 15664 -$$

$$\text{Total} = 72216 -$$

Dredge #11

November 1914

Dredge operated 30 days (27 days for depth)
Dug 548 hrs 30 min = 22.85 days = 76.18%
lost 171 30 = 7.15 = 23.82%
Avg Hgt Bank = 5.0 ft.
Depth = 14.9 - (6.5)
Total = 19.9 -

Surface $\frac{5545}{4820} \frac{6264}{5545} 722 \times 17.67 = 12758 \text{ Sq Yds.}$

Bedrock $\frac{6965}{6255} \frac{7228}{6965} 707 \times 17.67 = 12492$

Avg Area = $\frac{12758 + 12492}{2} = 12625$

$\frac{12625 \times 19.9}{3} = 83745 \text{ Cu. Yds.}$

$\frac{83745}{30} = 2792 \text{ Cu. Yds per day elapsed time}$

$\frac{83745}{22.85} = 3665 \text{ running}$

Pond Elev -
Claims dredged - 77 Below Hunter
Surface Area - 2.64 Acres
Avg Width - 165 ft.
Length - 735 -

$\frac{12758}{9}$	$\frac{12492}{9}$	$\frac{12625}{9}$
1417.56	1388.00	1402.78

than Writeoff

Block 62 - Remainder

= 73073 CuYds.

$$\frac{64 - 400 \times 100 \times 20.7}{20.7} = 23000$$

$$= 23000$$

Total = 76073

Strip Writeoff

154 - 155 - Remainder

0

155 - 156 - ✓

19323 CuYds.

156 - 157 - ✓

46991

Total = 66314

Dredge No. 11

May 1955
Started May 3 - 7:30 a.m.

Dredge operated 29 days.

dug 620 hrs. 40 min = 25.86 days = 89.18 %
 lost 75 - 20 - = 3.14 - = 10.82 %

Avg Net Bank = 5.4 ft.

Depth = 15.7 -

Total = 21.1 -

(7.2)

Surface - $\begin{array}{r} 1444 \\ 0882 \\ \hline 562 \end{array}$ $\begin{array}{r} 1999 \\ 1444 \\ \hline 555 \end{array}$ $\begin{array}{r} 2558 \\ 1999 \\ \hline 559 \end{array}$ $559 \times 17.67 = 9878.5 \text{ Yds.}$

Bedrock - $\begin{array}{r} 3119 \\ 2570 \\ \hline 549 \end{array}$ $\begin{array}{r} 3678 \\ 3119 \\ \hline 559 \end{array}$ $\begin{array}{r} 4230 \\ 3678 \\ \hline 552 \end{array}$ $550 \times 17.67 = 9718$
 $\begin{array}{r} 19596 \\ \hline \end{array}$
 Avg Area = 9798 ✓

$\begin{array}{r} 3266 \\ 9798 \times 21.1 \\ \hline 2 \end{array} = 68913 \text{ Cu.Yds.}$

$\frac{68913}{29} = 2376 \text{ Cu.Yds. per day elapsed time}$

$\frac{68913}{25.86} = 2665 - \text{running} -$

Pond Elev - 1099.0
 Claims dredged - 77 Below Hunker
 Surface Area - 2.04 Acres
 Avg Width Cut - 60 Ft.
 Length - 360 -

$\begin{array}{r} 9878 \\ 9 \\ \hline 88902 \end{array}$ $\begin{array}{r} 9718 \\ 9 \\ \hline 87462 \end{array}$ $\begin{array}{r} 9798 \\ 9 \\ \hline 88182 \end{array}$

Shaw Writeoff

Block 62-Remainder

= 0

✓ 64- ✓

= 51577 CYS

✓ 66 - $\frac{410 \times 85 \times 19.5}{27}$

= 25169 ✓

✓ 65 - $\frac{235 \times 85 \times 19.5}{27}$

= 14426 ✓

✓ 63 - $\frac{255 \times 180 \times 21.3}{27}$ = 36210 ✓

Total = 127382 ✓

Strip Writeoff157-158 - $\frac{1}{2}$ ✓

= 33084 Cyls.

158-159 - $\frac{3}{5}$ ✓

= 40965 ✓

159-160 - $\frac{3}{10}$ ✓= 19848 ✓

Total = 93897 ✓

Dredge No. 11

June 1955

Dredge operated 30 days.

dug 154 hrs. or min = 27.25 days = 90.84%

lost 15 - 50 - = 2.75 - = 9.16%

Avg. Hat Bank = 4.4 ft.

Depth = 14.8

Total = 19.2

(6.9)

$$\begin{array}{r} \text{Surface} \quad \begin{array}{r} 4346 \\ 3124 \\ \hline 1222 \end{array} \quad \begin{array}{r} 5563 \\ 4346 \\ \hline 1217 \end{array} \end{array}$$

$$1220 \times 17.67 = 21557 \text{ Sq Yds.}$$

$$\begin{array}{r} \text{Bedrock} \quad \begin{array}{r} 6738 \\ 5557 \\ \hline 1181 \end{array} \quad \begin{array}{r} 7929 \\ 6738 \\ \hline 1191 \end{array} \end{array}$$

$$1186 \times 17.67 = 20957$$

$$425.14$$

$$\text{Avg Area} = 21257$$

$$21257 \times \frac{6.4}{19.2} = 136045 \text{ Cu. Yds}$$

$$\frac{136045}{30} = 4535 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{136045}{27.25} = 4992 \text{ running}$$

Pond Elev - 1098.2

Claims dredged - 77-79 Below Hunter

Surface Area - 4.45 Acres

Avg Width - 750 Ft

Length - 750

$$\begin{array}{r} 21557 \quad 20957 \quad 21257 \\ \hline 9 \quad 9 \quad 9 \\ \hline 194013 \quad 188613 \quad 191313 \end{array}$$

Thaw Writco, 7

Block 61 - Remainder	= 17102 Cu.Yds.
✓ 63 - ✓	= 91284 ✓
✓ 65 - $\frac{490 \times 120 \times 19.5}{2}$	= <u>42466</u> ✓
	Total = 150802 ✓

Strip. W/O

X ¹² 157-158 - Remainder	= 33083 Cu.Yds.
✓ 158-159. ✓	= 27312 ✓
✓ 159-160 - $\frac{2}{3}$ ✓	= <u>30878</u> ✓
	Total = 91273 ✓

Dr #11 - July 1955

Dredge operated 31 days

dug 663 hrs 0 min = 27.63 days = 89.11 %
 lost 81 - 0 - = 3.37 - = 10.89 %
 Avg Hgt Bank = 9.7 ft.
 Depth = 13.8 -
 Total = 21.5 -

(6.0)

Surface $\begin{array}{r} 6305 \\ 5082 \\ \hline 1223 \end{array}$ $\begin{array}{r} 7528 \\ 6305 \\ \hline 1223 \end{array}$ $1223 \times 17.67 = 21610 \text{ Sq. Yds.}$

Bedrock $\begin{array}{r} 8734 \\ 7523 \\ \hline 1212 \end{array}$ $\begin{array}{r} 9937 \\ 8735 \\ \hline 1202 \end{array}$ $\begin{array}{r} 1140 \\ 9937 \\ \hline 1203 \end{array}$ $1203 \times 17.67 = 21257$
 $\checkmark$ $\underline{42867}$
 Avg Area = 21.434 -

$$21.434 \times 21.5 = 153610 \text{ Cu. Yds.}$$

$$\frac{153610}{31} = 4955 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{153610}{27.63} = 5560 \text{ - running -}$$

Pond #11 1101.6

Claims dredged - 77-79 Bel. Hunter
 Surface Area - 4.46 Acres
 Avg Width - 400 ft
 Length - 490 -

$$\begin{array}{r} 21610 \\ 9 \\ \hline 194490 \end{array}$$

$$\begin{array}{r} 21257 \\ 5 \\ \hline 191313 \end{array}$$

$$\begin{array}{r} 21434 \\ 9 \\ \hline 192906 \end{array}$$

Tham Whiteoff

$$\text{Block 65} - \frac{180 \times 235 \times 19.5}{27} = 115411 \text{ Cu.Yds.}$$

$$\text{Block 66} - \frac{180 \times 260 \times 19.5}{27} = 20800$$

$$\text{Total} = 136211$$

Strip Whiteoff

$$\text{X}^2 \text{ 159-160} - \frac{3}{4} \text{ Remainder} = 11580 \text{ Cu.Yds.}$$

$$160-161 - \frac{4}{5} = 48156$$

$$161-162 - \frac{4}{5} = 46212$$

$$\text{Total} = 105948$$

Dredge No. 11

Aug 1955

Dredge operated 31 days.

✓ Dug 672 hr. 50 min = 28.03 days = 90.43 %

✓ lost 71 - 10 - = 2.97 - = 9.57 %

Avg Hgt Bank = 2.9 ft.

✓ Depth = 16.5 -

Total - = 19.4 -

(6.8)

Surface

6767	7991		
1539	6767		
1228	1224		

$$1226 \times 17.67 = 21663 \text{ Sq. Yds.}$$

Bedrock

9197	0398	1600	
7987	9197	0398	
1210	1201	1202	

$$1202 \times 17.67 = 21239 \text{ ✓}$$

$$21451 \text{ ✓}$$

$$21451 \times \frac{19.4}{3} = 138716 \text{ Cu. Yds.}$$

$$\frac{138716}{31} = 4475 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{138716}{28.03} = 4949 \text{ ✓ - running ✓}$$

Pond Elev - 1096.1
 Claims dredged - 79 Below Hunter
 Surface Area - 4.48 Acres
 Avg Width - 250 ft.
 ✓ Length - 840 -

21663	21239	21451
9	9	9
194967	191151	193059

Thaw Whitcoll

Block 66 -	Remainder	=	95647 Cu Yds
✓ 68 - 19.8	$455 \times 90 \times 19.8$ 27	=	30030 ✓
✓ 65 - 19.5	$160 \times 85 \times 19.5$ 27	=	9822 ✓
✓ 67 - 21.3	$80 \times 80 \times 21.3$ 27	=	5049 ✓
Total =			140548

Strip Whitcoll

X ² 159-160 -	Remainder	=	3861 Cu. Yds.
160-161	✓	=	12040 ✓
161-162	✓	=	11554 ✓
162-163	2/5 ✓	=	20836 ✓
163-164	2/5 ✓	=	18526 ✓
164-165	1/4 ✓	=	12091 ✓
Total =			78908 ✓

Dredge No. 11

Sept 1955

Dredge operated 30 days

dug out hrs. 25 min = 26.77 days = 89.22 ft.
 lost 77 35 = 3.23 = 10.78 ft.

Avg Hgt. Bank = 5.3 ft.

Depth = 15.2

(6.0)

Total = 20.5

Surface

8339	9428
7251	8339
1088	1089

1089 x 17.67 = 19243 Sq. Yds.

Bedrock

0493	1574
9420	0493
1073	1081

1077 x 17.67 = 19031

38274

Avg Area = 19137

6379

19137 x 20.5 = 130770 Cu. Yds.

$$\frac{130770}{30} = 4359 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{130770}{26.77} = 4885 \text{ running}$$

Pond Elev - 1096.3

Claims dredged - 79 Acres

Surface Area - 3.98 Acres

Avg Width - 250 ft.

Length - 740

19243
5
173187

19031
5
171279

19137
5
172233

Thaw W/O

Block 65 - Remainder

= 67079 Cu.Yds.

$$\checkmark 67 - \frac{530 \times 100 \times 21.3}{27}$$

= 41811 ✓

Total: 108890 ✓

Strip W/O

No 162-163 - Remainder

= 31252 Cu.Yds.

163-164 - -

= 27792 -

164-165 - 1/2 ✓

= 18136 -

165-166 - 1/6 ✓

= 8652 -

Total = 85832 ✓

Dredge No. 11

October 1955

Dredge operated 31 days.

dug 67 hr 0 min = 28.00 days = 90.32 %
 lost 7 hr 0 min = 3.00 = 9.68 %

Avg. Hgt Bank = 3.3 ft.

Depth = 18.2

Total = 21.5

(6.7)

Surface	3266	4294	1031 x 17.67	= 18218	Cu. Yds.
	2232	3266			
	1034	1028			

Bedrock	5303	6322	1018 x 17.67	= 17988
	4286	5303		
	1017	1019		

✓ 36206
 Avg. Area = 18103

$$18103 \times \frac{21.5}{3} = 129738 \text{ Cu. Yds.}$$

$$\frac{129738}{31} = 4185 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{129738}{28} = 4634 \text{ - - - running -}$$

Pond Elev - 10991
 Claims dredged - 79 - A.C.
 Surface Area - 3.76 Acres
 Avg. Width - 250 Ft.
 Length - 650 -

18218	17988	18103
9	9	9
163962	161892	162927

Thaw W/O

$$\text{Block \#67} - 2774 \times \frac{21.3}{3} = 19695 \text{ Cu Yds.}$$

Strip W/O

$$\text{165-166} - \frac{1}{10} \text{ Remainder} = 4326 \text{ Cu Yds}$$

$$\text{166-167} - \frac{1}{8} = 7063$$

$$\text{Total} = 11389$$

Dredge No. 11

November 1955

Shutdown Nov. 11 - 11:00 AM

Dredge operated 10 days.

dug 19 hrs 10 min = 8.0 days = 80.07 %
 lost 47 - 50 = 2.0 = 19.93 %
 Avg. Hat Bank = 3.0 ft.
 Depth = 19.0
 Total = 22.0

(7.0)

Surface

$$\begin{array}{r} 3458 \\ 3299 \\ \hline 159 \end{array}$$

$$157 \times 17.67 = 2774 \text{ Sq. Yds.}$$

Bedrock

$$\begin{array}{r} 3739 \\ 3593 \\ \hline 146 \end{array}$$

$$143 \times 17.67 = 2526$$

$$2774 - 2526 = 248$$

$$\text{Avg Area} = 2650$$

$$2650 \times \frac{22.0}{3} = 19433 \text{ Cu. Yds.}$$

$$\frac{19433}{10} = 1943 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{19433}{8.0} = 2429 \text{ running}$$

Pond Level - 1099.3
 Claims dredged - 175 L.C.
 Surface Area - 0.57 Acres.
 Avg. Width - 250 ft
 Length - 80

$$\begin{array}{r} 2774 \\ 9 \\ \hline 24966 \end{array}$$

$$\begin{array}{r} 2526 \\ 9 \\ \hline 22734 \end{array}$$

$$\begin{array}{r} 2650 \\ 9 \\ \hline 23850 \end{array}$$

Thaw W/O

$$\text{Block 67} - \frac{8994 \times \frac{7.1}{21.3}}{3} = 63857 \text{ Cu Yds.}$$

Strip W/O

$$\sqrt{2} 164-165 - \frac{1}{6} \text{ Remainder} = 3022 \text{ Cu Yds.}$$

$$165-166 - \frac{1}{3} = 12978 \checkmark$$

$$166-167 - \frac{1}{3} = \underline{16481} \checkmark$$

$$\text{Total} = 32481 \checkmark$$

Dredge No 11

May 1956
 Started Apr. 30 - 10:30 AM
 Bailing ice - For Lost
 Time May 1 - 8:00 PM

Dredge operated 31 days

dug 668 hrs. 15 min = 27.87 days = 89.91 %

lost 75 " " " " = 3.13 " = 10.09 %

Avg. Water Bait = 4.1 Ft.

Depth = 18.5 "

Total = 22.6 "

(6.0)

Surface - $\frac{8800}{8292}$ $\frac{9309}{8800}$
 $\frac{508}{129}$

 $509 \times 17.67 = 8994$ 8994

Bedrock - $\frac{9816}{9310}$ $\frac{0315}{9816}$
 $\frac{506}{499}$

 $503 \times 17.67 = 8888$

$\sqrt{17882}$
 Avg Area = 8941

 $8941 \times \frac{22.6}{3} = 67356$ Cu. Yds. $\frac{67356}{31} = 2173$ Cu. Yds. per day elapsed time $\frac{67356}{27.87} = 2417$ " " running "

Pond Area - 1093.2
 Claims dredged - 15 LC
 Surface Area - 1.86 Acres.
 Avg Width - 250 Ft.
 Length - 340 "

$\frac{8994}{9}$ $\frac{8888}{9}$ $\frac{8941}{9}$
 80946 79992 80469

THAW H/O

$$\text{Block 27} - 250 \times 50 \times 21.3$$

$$= 9861 \text{ CYS}$$

$$\checkmark 68 - 1185 \times 290 \times 19.8$$

$$= 103143$$

$$113004$$

Strip H/O

$$\text{XES 164-165} - \text{Remainder}$$

$$= 15114 \text{ CYS}$$

$$165-166 - \checkmark$$

$$= 25955$$

$$166-167 - 3/4 \checkmark$$

$$= 24723$$

$$167-168 - 1/6 \checkmark$$

$$= 10049$$

$$75841$$

Dr. #11

June 1956

Dredge operated 30 days

dug 655 hrs. 15 min = 27.33 days = 91.10 %

lost 64 - 05 - = 2.47 - = 8.90 %

Avg. Hgt Bank: 6.2 ft.

Depth = 16.3 -

Total = 22.51

(6.0)

Surface

5191	6080
4300	5191
891	889

890 x 17.67 = 15726 Sq. Yds.

Bedrock

5960	7830
6093	6960
867	870

869 x 17.67	=	15355
		31081

Avg. Area = 15540

$$15540 \times \frac{7.5}{3} = 116550 \text{ Cu. Yds.}$$

$$\frac{116550}{30} = 3885 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{116550}{27.33} = 4265 - \text{ running}$$

Pond Elev - 1096.8

Claims dredged - 17520

Surface Area - 3.25 Acres.

Avg Width - 270 ft.

Length - 500 -

15726
9

15355
9

15540
9

141534

138195

139860

Thaw W/O

Block 68 -	Remainder	= 67447	Cu Yds.
✓ 70 -	$615 \times \frac{100}{57} \times 19.8$	= 45100	✓
✓ 67 -	$170 \times \frac{100}{57} \times 21.3$	= 6706	✓
✓ 69 -	$60 \times \frac{80}{57} \times 24.5$	= 4711	✓
		123964	✓

Strip W/O

✓ 166-167 -	Remainder	= 8240	Cu Yds.
167-168 -	$7/5$	= 20090	✓
168-169 -	$3/5$	= 36663	✓
169-170 -	$3/10$	= 18182	✓
		83175	✓

Dr No 11

July 1916

Dredge operated 31 days

dug 677 hrs. 35 min = 28.23 days = 91.07%

lost 66 " " " = 2.77 " = 8.93%

Avg Net Back = 3.7 Ft.

Depth = 18.3

Total = 22.0

(1.0)

$$\text{Surface} - \begin{array}{r} 0413 \\ 9384 \\ \hline 1049 \end{array} \quad \begin{array}{r} 1444 \\ 0413 \\ \hline 1031 \end{array} \quad \begin{array}{r} 2477 \\ 1444 \\ \hline 1033 \end{array}$$

$$1033 \times 17.67 = 18235.59 \text{ cu yds.}$$

$$\text{Bedrock} - \begin{array}{r} 3466 \\ 2460 \\ \hline 1000 \end{array} \quad \begin{array}{r} 4437 \\ 3436 \\ \hline 1001 \end{array}$$

$$1000 \times 17.67 = 17670$$

$$\sqrt{35905}$$

$$\text{Avg. Area} = 17953$$

$$17953 \times \frac{22.0}{3} = 131655 \text{ Cu Yds.}$$

$$\frac{131655}{31} = 4247 \text{ Cu Yds. per day elapsed time}$$

$$\frac{131655}{28.23} = 4664 \text{ " running "}$$

Pond Elev - 1095.8

Claims dredged - 44 LC - 45 LC

Surface Area - 3.77 Acres

Avg. Width - 250 Ft.

Length - 700 "

$$\begin{array}{r} 18235 \\ 9 \\ \hline 164115 \end{array} \quad \begin{array}{r} 17670 \\ 9 \\ \hline 159030 \end{array} \quad \begin{array}{r} 17953 \\ 9 \\ \hline 161577 \end{array}$$

Thaw W/O

Block 67 - Remainder	-	=	78233	Cu Yds
✓ 69 - 450 x 135 x 26.5	-	=	59625	✓
26.5	27			
		Total =	137858	✓

Strip W/O

✓ 167 - 168	-	Remainder	=	30153	Cu Yds
168 - 169	-	✓	=	24444	✓
169 - 170	-	1/2 ✓	=	21230	✓
170 - 171	-	1/7 ✓	=	8436	-
		Total =	.84263	✓	

Dredge 19-11

August 1956

Dredge operated 31 days

dug 678 hrs 20 min = 28.26 days = 91.17 %
 lost 65 hrs 40 min = 2.74 days = 8.83 %

Avg. Depth Bank = 4.6 ft

Depth = 19.6

Total = 24.2

(6.0)

Surface - $\begin{array}{r} 3686 \\ 2719 \\ \hline 967 \end{array}$ $\begin{array}{r} 4649 \\ 3686 \\ \hline 963 \end{array}$

 $967 \times 17.67 = 17057.59 \text{ yds.}$

Bedrock - $\begin{array}{r} 5602 \\ 4643 \\ \hline 959 \end{array}$ $\begin{array}{r} 6567 \\ 5602 \\ \hline 965 \end{array}$

 $962 \times 17.67 = 16998$ $\sqrt{34050}$

Avg Area = 17025

$\begin{array}{r} 5675 \\ 17025 \times \frac{24.2}{2} = 137335 \text{ Cu Yds} \end{array}$

$\frac{137335}{31} = 4430 \text{ Cu Yds. per day elapsed time}$

$\frac{137335}{28.26} = 4860$ running

Pond Elev - 1096.5
 Claims dredged - 1746 C - 1752 C
 Surface Area - 3.5 Acres
 Rig Width - 315 ft.
 Length - 460

$\begin{array}{r} 17057 \\ 9 \\ \hline 153468 \end{array}$

$\begin{array}{r} 16998 \\ 9 \\ \hline 152982 \end{array}$

$\begin{array}{r} 17025 \\ 9 \\ \hline 153225 \end{array}$

Thaw W/O

Block 69 -	Remainder	=	59798	Cu.Yds
✓ 71 -	$500 \times 85 \times \frac{27.0}{27}$	=	42500	✓
✓ 70 -	$385 \times 150 \times \frac{21.6}{27}$	=	46200	✓
✓ 72 -	$380 \times 75 \times \frac{25.0}{27}$	=	<u>26389</u>	✓
		Total =	174887	✓

Strip W/O

22 169-170 -	$\frac{2}{3}$ Remainder	=	1442	Cu.Yds.
170-171 -	$\frac{3}{4}$ ✓	=	37961	✓
171-172 -	$\frac{2}{3}$ ✓	=	<u>38714</u>	✓
		Total =	90831	✓

Dredge No. 11

Sept 1956

Dredge operated 30 days

Avg 645 hrs. $\sqrt{5}$ min = 26.91 days = 69.71%

lost 74 - 05 - = 3.09 - = 10.29%

Avg Net Bank = 3.4 ft.

Depth = 19.4

Total = 22.8

(6.0)

Surface

$$\begin{array}{r} 6863 \\ 5833 \\ \hline 1030 \end{array}$$

$$\begin{array}{r} 7892 \\ 6863 \\ \hline 1029 \end{array}$$

1030 x 17.67 = 18200 Sq YDS.

Bedrock

$$\begin{array}{r} 8885 \\ 7880 \\ \hline 1005 \end{array}$$

$$\begin{array}{r} 9882 \\ 8885 \\ \hline 997 \end{array}$$

1001 x 17.67 = 17688 Sq YDS.

2)35888

AVE. AREA 17944 Sq YDS

$$17944 \times \frac{7.6}{22.8} = 136374 \text{ CU YDS}$$

$$\frac{136374}{30} = 4546 \text{ CU YDS PER DAY ELAPSED TIME}$$

$$\frac{136374}{26.91} = 5068 \text{ CU YDS PER DAY RUNNING TIME}$$

Pond Elev. - 1094.0
 Claims dredged - A4 L.C.
 Surface Area - 3.76 ACRES
 Avg Width - 220'
 Length - 800'

$$\begin{array}{r} 18200 \\ 9 \\ \hline 163800 \end{array}$$

$$\begin{array}{r} 17688 \\ 9 \\ \hline 159192 \end{array}$$

$$\begin{array}{r} 17944 \\ 9 \\ \hline 161496 \end{array}$$

Thaw Writeo!!

Block 70 - Remainder

= 35478 Cu Yds.

$$- 72 - \frac{105 \times 85 \times 25.0}{27} = 8264$$

$$- 72 - \frac{3175}{2805} \frac{3550}{3175} \frac{373 \times 17.69 \times 25.0}{3} = 54925$$

= 63189

Total = 98667 ✓

Strip N/O2nd 169-170 - Remainder

= 9077 Cu Yds

170-171 -

= 12650 ✓

171-172 - 65% ✓

= 13556 ✓

172-173 - 40% ✓

= 22317 ✓

173-174 - 40% ✓

= 20294 ✓

Total = 75894 ✓

Dredge Operated 31 days - 30 for depth.
 " dug 632 Hrs. 55 min = 26.37 DAYS = 85.07%
 Lost 111 " 05 " = 4.63 " = 14.93%

AVG. HETH. BANK = 4.2 FT.

DEPTH = 18.3 FT.

TOTAL " = 22.5 FT.

(6.0)

SURFACE $\begin{array}{r} 7267 \\ 6290 \\ \hline 977 \end{array}$ $\begin{array}{r} 8246 \\ 7273 \\ \hline 973 \end{array}$ $975 \times 17.67 = 17,228$ Sq YDS

BEDROCK $\begin{array}{r} 9208 \\ 8245 \\ \hline 963 \end{array}$ $\begin{array}{r} 10176 \\ 9208 \\ \hline 968 \end{array}$ $966 \times 17.67 = 17,069$ Sq YDS

2) 34,297

AVG. AREA = 17,149 Sq YDS.

$17,149 \times \frac{7.5}{22.5} = 128,617$

$\frac{128617}{31} = 4149$ CU YDS PER DAY ELAPSED TIME

$\frac{128617}{26.37} = 4877$ " " " " RUNNING TIME

POND ELEV =

CLAIMS DREDGED - A. 4. L. C. A. 3. L. C.

SURFACE AREA - 3.54 ACRES.

AVG. WIDTH - 200'

" LENGTH - 700'

$\begin{array}{r} 17228 \\ 9 \\ \hline 155052 \end{array}$

$\begin{array}{r} 17069 \\ 9 \\ \hline 153621 \end{array}$

$\begin{array}{r} 17149 \\ 9 \\ \hline 154341 \end{array}$

Thaw W/O

$$\text{Block 72} - \frac{31 \times 8 \times 25.0}{3} = 2667 \text{ Cu Yds.}$$

25.0

Strip W/O

$$\times 2 \text{ 171-172} - 19\% \text{ Remainder} = 1387 \text{ Cu Yds.}$$

$$172-173 - 19\% \quad \checkmark \quad = 6360 \quad \checkmark$$

$$173-174 - 19\% \quad \checkmark \quad = \underline{5784} \quad \checkmark$$

$$\text{Total} = 13531$$

DREDGE # 11.

111

Nov. 56.
Shut down Nov. 10 - 8:00 AM

DREDGE OPERATED 9 DAYS

DUG 182 HRS. 30 MIN. = 7.60 DAYS = 84.49%

" LOST. 83 " 30 " = 1.40 " = 15.51%

AVG. HGT. OF BANK = 4.0 FT.

" DEPTH " " 19.0 ✓

TOTAL = 23.0 FT.

(6.0)

SURFACE :-	2294	2473	177 x 17.67 =	3,128	Sq. Yds.
	2119	2294			
	175	178			

BEDROCK :-	2631	2804	172 x 17.67	3,039	Sq. Yds.
	2450	2631			
	171	173			

AVG. AREA = $\frac{3039}{2} = 1519.5$ Sq. Yds.

$$3034 \times \frac{23}{3} = 23,261 \text{ Cu. Yds.}$$

$$\frac{23,261}{9} = 2,585 \text{ Cu. YDS PER DAY ELAPSED TIME}$$

$$\frac{23,261}{7.6} = 3,061 \text{ " " " RUNNING "}$$

POND ELEV —

CLAIMS DREDGED. A.3.L.C. and A.4.L.C.

SURFACE AREA .63 ACRES.

AVG. WIDTH 210'

" LENGTH 150.

3128	3039	3034
9	9	9
28152	27351	27306

Shaw W/O

$$\text{Block \# 71} - \frac{215 \times 390 \times 25.0}{27} = 17639 \text{ Cu. Yds.}$$

$$\checkmark \text{ \# 72} - \frac{8910 \times 27}{27} = 8910 \text{ Cu. Yds.}$$

$$\text{Total} = 86549$$

Strip W/O

$$\text{X2 171-172} - \text{Remainder} = 5913 \text{ Cu. Yds.}$$

$$172-173 - 4/5 \quad \checkmark = 21708 \quad \checkmark$$

$$173-174 - 4/5 \quad \checkmark = 19728 \quad \checkmark$$

$$\text{Total} = 47349 \quad \checkmark$$

Dredge No. 11

May 1957
Started May 2 - 4.00 p.m.

Dredge operated 30 days

avg hrs. vs mid = 25.75 days = 85.8 hr.

$$1054, 102 - 0.5 = 4.25 = 14.18\%$$

Aug Hgt Bank = 4.7 ft.

Depth = 18.3

Total = 23.0 ✓

6.0

Surface -

$$\begin{array}{r} 6919 \\ 6323 \\ \hline 596 \end{array}$$
$$\begin{array}{r} 7519 \\ 6919 \\ \hline 600 \end{array}$$
$$\begin{array}{r} 8114 \\ 7519 \\ \hline 595 \end{array}$$
$$596 \times 17.67 = 10,531 \text{ ng yds.}$$

Bedrock -

$$\begin{array}{r} 8704 \\ 8106 \\ \hline 598 \end{array}$$
$$\begin{array}{r} 9303 \\ 8704 \\ \hline 599 \end{array}$$
$$599 \times 17.67 = \underline{10584}$$

$$2 \overline{) 21115}$$

Avg Area 10,558 sq. Yds.

$$10.558 \times 23.0 = 80945 \text{ Cubic Yards}$$
$$\frac{80945}{30} = 2698 \text{ Cu. Yds. per day elapsed time}$$

$\frac{80945}{1595} = 3143$ ✓ running ✓

Pond Elev. - 1093.2

Claims dredged - A4 L.C. A3 L.C.

Surface Area - 2.18 ACRES.

Avg. width Cyt - 220

✓ Length - 420'

$$\begin{array}{r} 10531 \\ \times 9 \\ \hline 94779 \end{array} \quad \begin{array}{r} 10584 \\ \times 9 \\ \hline 95256 \end{array} \quad \begin{array}{r} 10558 \\ \times 9 \\ \hline 95022 \end{array}$$

Thaw W/D

$$\text{Block 71} - \text{Remainder} = \frac{450 \times 40 \times 27.0}{27} = 108992 \text{ Cyls.}$$

117992 Cyls.

$$\text{Block 72} - \frac{210 \times 210 \times 25.0}{27} = 40833 \text{ ✓}$$

$$\text{Total} = 149825 \text{ ✓}$$

Strip W/D

$$\text{XQ 172-173} - \text{Remainder} = 5407 \text{ Cyls.}$$

$$173 - 174 - \text{✓} = 4930 \text{ ✓}$$

$$174 - 175 - \frac{2}{3} \text{ ✓} = 24340 \text{ ✓}$$

$$175 - 176 - \frac{2}{3} \text{ ✓} = 32654 \text{ ✓}$$

$$\text{Total} = 77331 \text{ ✓}$$

Dredge No 11

June 1957

Dredge Operated 30 Days.
 " Dig. 633 Hrs 15 min = 26.39 days = 87.95 %
 " Lost. 86 " 45 " = 3.61 " = 12.05 %
 Avg Hgt of bank. = 3.9' ✓
 " Depth. = 19.3' ✓ (6.0) ✓
 Total = 23.2' ✓

Surface 4084 5113 6152
 3041 4084 5113 ✓
 1043 ✓ 1029 1039 ✓ = 1041 x 17.67 = 18395 Sp. Yds. ✓

Bedrock 7157 8182
 6138 7157
 1019 ✓ 1025 ✓ = 1022 x 17.67 = 18059 Sp. Yds. ✓
 2) 36454

18227 x 23.2 = 140,956 Co Yds.
 3

Avg = 18227 Sp. Yds.

140956 = 4699 Co Yds per day elapsed time
 30

140,956 = 5,391 " " " " Running "
 26.39

Pond Elev = 1093.9
 Claims Dredged = A 3LC & A 4LC. ✓
 Surface Area = 3.80 acres. ✓
 Avg Length = 780'
 " Width = 220'

18395
 9
 165555 ✓

18059
 9
 162531 ✓

18227
 9
 164043 ✓

Thaw W/O

$$\text{Block 74} - \frac{250 \times 60 \times 23.0}{27} + \frac{29389}{27} = 42166 \text{ Cu Yds} \quad \checkmark$$

✓ 72 - Remainder

$$= 3600 \text{ Cu Yds}$$

$$\text{Total} = 78170 \text{ Cu Yds} \quad \checkmark$$

Strip W/O

$$\text{Stn. 174-175} - \text{Remainder} = 17170 \text{ Cu Yds.}$$

$$175-176 - \checkmark = 16328 \quad \checkmark$$

$$176-177 - \frac{1}{2} - \checkmark = 18762 \quad \checkmark$$

$$177-178 - \frac{1}{2} - \checkmark = 16958 \quad \checkmark$$

$$178-179 - \frac{1}{2} - \checkmark = 5003 \quad \checkmark$$

$$\text{Total} = 74221 \quad \checkmark$$

DREDGE N^o 11

July 157

DREDGE OPERATED 31 days

" DUG 674 hrs. 10 min = 28.09 days = 90.61 %

" LOST 69 - 50 = 2.91 = 9.39 %

AVG HGT OF BANK = 4.1 ft.

" DEPTH = 19.4

" TOTAL = 23.5

(6.0)

Surface

$$\begin{array}{r} 3310 \\ 2391 \\ \hline 919 \end{array}$$

$$\begin{array}{r} 4220 \\ 3310 \\ \hline 910 \end{array}$$

$$913 \times 17.67 = 16133 \text{ Sq. Yds}$$

Bedrock

$$\begin{array}{r} 5121 \\ 4222 \\ \hline 899 \end{array}$$

$$\begin{array}{r} 6018 \\ 5121 \\ \hline 897 \end{array}$$

$$898 \times 17.67 = 15867$$

$$32000$$

$$\text{Avg Area} = 16000$$

$$\frac{16000 \times 23.5}{3} = 125333 \text{ Cu. Yds}$$

$$\frac{125333}{31} = 4043 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{125333}{28.09} = 4462 \text{ - running -}$$

Pond Elev.

- 1087.6

Claims dredged

- 142 LG - 143 LC

Surface Area

- 3.33 Acres

Avg width

- 220 Ft.

Length

- 670

$$\begin{array}{r} 16133 \\ 9 \\ \hline 145197 \end{array}$$

$$\begin{array}{r} 15867 \\ 9 \\ \hline 142803 \end{array}$$

$$\begin{array}{r} 16000 \\ 9 \\ \hline 144000 \end{array}$$

THAW W/O

BLOCK	74 ✓ 23.0	$\frac{200 \times 190 \times 23.0}{27}$	=	32,370 ✓	Ca. Yds.
"	73 ✓ 24.7	$\frac{220 \times 550 \times 24.7}{27}$	=	110,693 ✓	" "
			TOTAL =	143,063 ✓	

STRIP	W/O ✓			
X ⁰	176 - 177 ✓	REMAINDER.	=	28,142 ✓
	177 - 178 ✓	"	=	25,435 ✓
	178 - 179 ✓	2/5 "	=	12,177 ✓
			TOTAL =	65,754 ✓

DREDGE # 11 AUG. 154.

DREDGE OPERATED 31 DAYS.

" DUG 155 hrs. 05 min = 27.30 days = 88.05 ?

" LOST 88 - 55 - = 3.70 - = 11.95 ?

AVG. HGT. OF BNK. = 4.9 ft.

DEPTH = 20.0 -

TOTAL = 24.9 -

(60)

SURFACE.

1361 2347

0378 1361

983 ✓ 986 ✓

$$= 985 \times 17.67 = 17405 \text{ Sq. Yds.}$$

BEDROCK.

3307 4273

2343 3307

964 ✓ 966 ✓

$$= 965 \times 17.67 = 17052 \text{ Sq. Yds.}$$

2) 34457 ✓

AVG. AREA = 17229 ✓ ✓

8.3

$$17229 \times \frac{24.9}{8.3} = 143000 \text{ Cu. Yds.}$$

$$\frac{143000}{31} = 4613 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{143000}{27.30} = 5238 \text{ - running ✓}$$

POND ELEV. - 1091.2
CLAIMS DREDGED - A2 L.C. - A3 L.C.
SURFACE AREA - 3.60 ACRES.
AVG. WIDTH - 220'
AVG. LENGTH - 730'

$$\begin{array}{r} 17405 \\ 9 \\ \hline 156645 \end{array}$$

$$\begin{array}{r} 17052 \\ 9 \\ \hline 153468 \end{array}$$

$$\begin{array}{r} 17229 \\ 9 \\ \hline 155061 \end{array}$$

Thaw W/O

$$\text{Block 73} - \frac{500 \times 200 \times 24.7}{27}$$

$$= 91481 \text{ Cu Yds}$$

$$74 \text{ Remainder}$$

$$= \underline{47931} \checkmark$$

$$\text{Total} = 139412$$

Stripping W/O

$$x2 \text{ 178-179} - \frac{3}{4} \text{ Remainder}$$

$$= 13698 \text{ Cu Yds}$$

$$179-180 - \frac{3}{4} \checkmark$$

$$= 25047 \checkmark$$

$$180-181 - \frac{1}{3} \checkmark$$

$$= \underline{12907} \checkmark$$

$$\text{Total} = 51652$$

Dredge # 11

Sept. 1957

Dredge operated 30 days

$$\frac{Dug 113 \text{ hr. } 50 \text{ min} = 77.74 \text{ days} - 90.81}{\text{lost } 66 - 10 = 7.76} = 9.19$$

Avg Hgt Bank = 3.8 ft.

Depth = 20.0

Total = 23.8

(6.0)

$$\begin{array}{r} \text{Surface} - \frac{9782}{8709} \\ \hline 1073 \end{array}$$

$$\begin{array}{r} 0853 \\ 9782 \\ \hline 1071 \end{array}$$

$$1072 \times 17.67 = 18942 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \frac{1905}{0845} \\ \hline 1060 \end{array}$$

$$\begin{array}{r} 2967 \\ 1905 \\ \hline 1062 \end{array}$$

$$1061 \times 17.67 = 18748$$

$$- \frac{37690}{2}$$

$$\text{Avg. Area} = 18845$$

$$\frac{18845 \times 23.8}{3} = 149504 \text{ Cu. Yds.}$$

$$\frac{149504}{30} = 4983 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{149504}{77.74} = 1922 \text{ - running -}$$

Pond Elev - 1090.3
 Claims dredged - 1726 C
 Surface Area - 391 Acres
 Avg Width - 220 ft
 Length - 850

$$\begin{array}{r} 18942 \\ 9 \\ \hline 170478 \end{array}$$

$$\begin{array}{r} 18748 \\ 9 \\ \hline 168732 \end{array}$$

$$\begin{array}{r} 18845 \\ 9 \\ \hline 169605 \end{array}$$

Thaw w/o

Nil

Strip w/o

X ²	176-179	Remainder	=	4567	Curds
-	179-180	-	=	8350	-
-	180-181	- 1/2 -	=	12908	-
✓	181-182	- 1/4 ✓	=	10170	✓
-	182-183	- 1/8 ✓	=	<u>4260</u>	-

Total = 40255

DREDGE No 11

October 1957. 123

DREDGE OPERATED 31 DAYS.

" DUG 674 hrs. 50 min = 28.17 days = 90.70 %
 " LOST 69 - 10 - = 2.88 - = 9.30 %

AVG. HGT. OF BANK. = 8.7 FT
 DEPTH. = 17.7 -
 TOTAL = 25.9 -

(6.1)

SURFACE 1057 1992 2928
 0117 1057 1992
940 935 936 = 936 x 17.67 = 16539 Sq. Yds.

BEDROCK 3806 4707 5607
 2915 3806 4707
891 901 900 = 901 x 17.67 = 15921 Sq Yds.
 2 | 32460 ✓
 AVG. AREA = 16230 Sq. Yds.

✓ 410
 $\frac{16230 \times 25.9}{3} = 140119 \text{ Cu. Yds.}$

$\frac{140119}{31} = 4520 \text{ Cu. Yds. per day elapsed time}$

$\frac{140119}{28.17} = 4983 \text{ - running -}$

POND ELEV. 1087.8
 CLAIMS DREDGED. A 2 L.C.
 SURFACE AREA 3.42 ACRES.
 AVG. WIDTH 215 FT.
 " LENGTH 690 -

16539 15921 16230
 9 9 9
148851 143289 146070

Thaw W/O

$$\text{Block \# 76} - \left(\overset{13000}{100 \times 130} + \overset{9900}{165 \times 60} \right) \times 23.0 = 19507 \text{ Cu Vols}$$

27

Strip W/O

# 180-181 -	2/5 Remainder		=	5162 Cu Vols
181-182 -	2/5	✓	=	12204 ✓
182-183 -	30%	✓	=	8946 ✓
Total			=	26312

11-1957 Natural Thaw

Naturally thawed ground dredged in 1957.

Readings

$\begin{array}{r} 10220 \\ 8216 \\ \hline 2004 \end{array}$	$\begin{array}{r} 2221 \\ 0220 \\ \hline 2001 \end{array}$	$\begin{array}{r} 2210 \\ 2001 \\ \hline 209 \end{array}$	Sq. Ft.	$= 2003 \times 159.05 = 318,577$
---	--	---	------------------	----------------------------------

Using depth of 24'

$$\text{Cu. yds} = \frac{318,577 \times 24}{27} = 283,180 \text{ Cu. yds}$$

Naturally thawed ground left.

Readings.

$\begin{array}{r} 14453 \\ 9388 \\ \hline 5065 \end{array}$	$\begin{array}{r} 9503 \\ 4453 \\ \hline 5050 \end{array}$	$\begin{array}{r} 14556 \\ 9503 \\ \hline 5053 \end{array}$	$5052 \times 159.05 = 803,521$
---	--	---	--------------------------------

$$+ 195 \times 365$$

$$= 71,175$$

Using depth of 24'

$$874,696$$

$$= \frac{874,696 \times 24}{27} = 777,507 \text{ Cu. yds.}$$

Dr # 11 1957 Natural Thaw

Cu. Yds dredged 1957 = 283,180

Cu. Yds Remaining = 777,507

Dredge No 11

November 1917
Shut down Nov 27 - 8:00 AM

Dredge operated 26 days

✓ dug 553 hrs 30 min = 23.06 days = 88.70 %
✓ lost 70 - 30 = 2.94 = 11.30 %

Avg. Hgt Bank = 3.0 Ft.

Depth = 21.0

Total = 24.0

(6.0)

Surface

1721

2302

2879

1147

1721

2302

574 ✓

581

577 ✓

576 × 17.67 =

10,178

Sq. Yds

Bedrock

3439

4009

2873

3439

566 ✓

570 ✓

568 × 17.67 =

10,037

Sq. Yds

2) 20,215

Avg. Area = 10,108 ✓ Sq. Yds

$$10108 \times \frac{8.0}{24.0} = 80864 \text{ Cubic Yards}$$

$$\frac{80864}{26} = 3110 \text{ Cubic YARDS PER DAY ELAPSED TIME}$$

$$\frac{80864}{23.06} = 3,507 \text{ " " " " Running "}$$

Pond Elev. - 1086.0
 Claims dredged - A2 LC
 Surface Area - 2.10 ACRES.
 Avg width - 215'
 Length - 430'

10178

10037

10108

9

9

9

91,602 ✓

90333 ✓

90972 ✓

Thaw W/O

$$\text{Block \# 73} - \frac{25 \times 55 \times 24.7}{24.7} = 1257 \text{ Cu Yds.}$$

$$\checkmark \text{ \# 75} - \frac{30 \times 165 \times 23.0}{23.0} = 4217 \checkmark$$

$$\text{Total} = 5474 \checkmark$$

Strip W/O

$$\times 180-181 - \frac{1}{40} \text{ Remainder} = 194 \text{ Cu Yds.}$$

$$181-182 - \frac{1}{25} \checkmark = 732 \checkmark$$

$$182-183 - \frac{1}{22} \times \frac{2}{3} \checkmark = 632 \checkmark$$

$$\text{Total} = 1558 \checkmark$$

Dredge No: 11

April 1958
Started Apr 28 - 8:00 AM

Dredge operated 3 days

Dug 63 hrs. 55 min. = 2.66 days = 88.77%

lost 8 " or " = 0.33 " = 11.23%

Avg Hgt Bank = 3.3 ft.

Depth = 18.0 ✓

Total = 21.3 ✓

(6.7)

$$\text{Surface} - \frac{1400}{1369} \quad \frac{1432}{1400}$$

$$\quad \quad \quad 31 \quad \quad 32$$

$$32 \times 17.67 = 565 \text{ Sq. Yds}$$

$$\text{Bedrock} - \frac{1453}{1422} \quad \frac{1485}{1453}$$

$$\quad \quad \quad 31 \quad \quad 32$$

$$32 \times 17.67 = 565 \quad \checkmark$$

$$\text{Avg} = 565 \quad \checkmark$$

$$565 \times \frac{7.1}{3} = 4012 \text{ Cu. Yds.}$$

$$\frac{4012}{3} = 1337 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{4012}{2.66} = 1508 \quad \checkmark \quad \text{running} \quad \checkmark$$

Pond Elev. - 1086.0
 Claims dredged - A2LC.
 Surface Area = 0.12 Acres
 Avg. Width = 215 ft.
 Length = 25 ✓

$$\frac{1508}{9}$$

$$167.5$$

W/O 9000 Cys Block #71

Than W/O

Block #71	-	Remainder	=	9000 C.Yds.	
✓ #73	-	✓	=	18869	✓
24.7					
- #75	-	$515 \times 160 \times 23.0$	=	<u>40192</u>	✓
73.0		27			
		Total	=	98061	✓

Strip W/O

X ² 180-181	-	Remainder	=	7551 C.Yds.	
181-182	-	✓	=	17575	✓
182-183	-	$\frac{1}{3}$	=	<u>13496</u>	✓
		Total	=	38622	

Dredge # 11 May 1958

Dredge Operated - 31 days

" Dug - 669 Hrs. 05 mins. = 27.88 days = 89.93 %

" Lost - 74 " 55 " = 3.12 " = 10.07 %

Avg. Hgt. of Bank = 5.1 Feet.

" Depth = 15.8 "

" Total = 20.9 "

(6.3)

Surface
 5147
 4386
 761

5910
 5147
 763

762 x 17.67 = 13,465 Sq. Yds.

Bedrock
 6665
 5905
 760

7421
 6665
 756

758 x 17.67 = 13,394 Sq. Yds.

2) 26859

Avg. Area = 13,430 Sq. Yds.

13,430 x 20.9 = 93,562 Cubic Yards

93,562
 31 = 3,018 Cubic Yards per day Elapsed Time

93,562
 27.88 = 3,356 " " " Running Time

Pond elev. - 1083.8
 Claims dredged - A.2.L.C. and Q.L.C.
 Surface Area - 2.8 Acres
 Avg. Width - 220'
 " Length - 540'

13,465
 9
 121,185

13,394
 9
 120,546

13,430
 9
 120,870

Thaw w/o

Block 75 - Remainder = 103964 Cu Yds.

- 76 - ✓ = 14491 ✓

Total = 118459 ✓

Strip w/o

X³ 182-183 - 2/3 Remainder - 4498 Cu Yds.

183-184 - 2/3 ✓ = 19746 ✓

184-185 - 1/2 - = 12559 -

Total = 36803 ✓

Dredge # 11

June 1958

Dredge Operated 30 days

" Dug - 647 hrs. 45 min = 26.99 days = 89.97%

" Lost. - 72 15 - = 3.01 - = 10.03%

Avg. Hgt of Bnk. = 3.5 Ft.

" Depth = 17.5 -

Total = 21.0 -

(6.0)

Surface

1960	3126
0797	1960
1163	1166

1165 x 17.67 = 20,586 Sq. Yds.

Bedrock

4270	5418
3120	4270
1150	1148

1149 x 17.67 = 20,303 Sq. Yds.

2) 40,889

Avg. Area = 20,445 Sq. Yds.

$$20445 \times \frac{7.0}{3} = 143115 \text{ Cu. Yds}$$

$$\frac{143115}{30} = 4771 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{143115}{26.99} = 5302 \text{ - running -}$$

Pond Elev. - 1079.5

Claims dredged - O.L.C.

Surface Area - 4.3 Acres.

Avg. width - 210

" Length - 910

20,586
9
185,274

20,303
9
182,727

20,445
9
184,005

Thaw M/D

Nil

Strip M/D

Nº 182-183 - Remainder

= 2249 Cu.Yds

183-184 - ✓

= 987 ✓

184-185 - $\frac{1}{2}$ ✓

= 6280 ✓

Total 18401 ✓

Dredge Operated - 31 days
 " Dug - 653 hrs. 10 min = 27.22 days = 87.79%
 " Lost - 90 - 50 - = 3.78 - = 12.21%
 Avg. Hgt of bnk - 13.1 ft.
 " Depth - 17.1 -
 Total - 30.2 ✓ 6.0

Surface
 4760 5783
 3740 4760 ✓
 1020 ✓ 1023 ✓ $1022 \times 17.67 = 18,059$ Sq. Yds

Bedrock
 6843 7842
 5842 6843 ✓
 1001 ✓ 999 ✓ $1000 \times 17.67 = 17,670$ Sq. Yds.
 Avg. Area = $\frac{17,670}{2} = 8,835$ ✓
 2) 35,729 ✓
 17,865 ✓

$$17865 \times \frac{30.2}{3} = 179841 \text{ Cu. Yds}$$

$$\frac{179841}{31} = 5801 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{179841}{27.22} = 6607 \text{ - running -}$$

Pond Elev. 1099.2
 Claims dredged. A 2 L.C. OLC and 1 old L.C. above mouth
 Surface Area. 3.7 acres.
 Avg. width. 220'
 " Length 750'

$$\begin{array}{r} 18,059 \\ 9 \\ \hline 162,531 \end{array}$$

$$\begin{array}{r} 17,670 \\ 9 \\ \hline 159,030 \end{array}$$

$$\begin{array}{r} 17,865 \\ 9 \\ \hline 160,785 \end{array}$$

no w/o

Dredge Operated - 31 Days
 " Dug - 666 Hrs. 55 mins = 27.79 days = 89.84%
 " Lost - 77 ✓ 05 ✓ = 3.21 ✓ = 10.36%
 Avg. Hgt of brk - 14.8 ft.
 " Depth - 20.3
 Total - 35.1

(6.0)

	7791	8722		
Surface	6855	7791		
	936 ✓	931 ✓	934 × 17.67 =	16,504 Sq Yds.

	9559	0425		
Bedrock	8691	9559		
	878	866	867	
	868		872 × 17.67 =	15,408 Sq Yds.

5304
~~15915~~
 $\frac{15,956 \times 35.1}{3} = 186,170$ Cubic Yards.

Avg. Area = $\frac{2 \times 31,824}{15,956} = 15,912$ Sq Yds.

$\frac{186,170}{31} = 6,005$ Cubic Yards per day Elapsed time

$\frac{186,170}{27.79} = 6,718$ ✓ ✓ ✓ ✓ Running ✓

Pond Elev. 1109.7
 Claims dredged - A.L.C., Lower $\frac{1}{2}$ 2, Upper $\frac{1}{2}$ 2, and 3 above L.C.
 Surface Area - 3.4
 Avg. Width - 200'
 ✓ Length - 750'

16504	15320	15956
9	15408	9
148,536 ✓	138,672	143,604 ✓
	137,880	

No Writeo. 7

Dr #11

Sept. 1958

Dredge operated 30 days

dug 624 hrs. 20 min = 26.02 days = 86.72 %
 lost 95 - 35 = 3.98 = 13.28 %

Avg Hgt Bank = 10.9 ft.

Depth = 21.4

Total = 32.3

(6.0)

Surface

$$\begin{array}{r} 6000 \\ 5297 \\ \hline 703 \end{array}$$

$$\begin{array}{r} 6702 \\ 6000 \\ \hline 702 \end{array}$$

$$703 \times 17.67 = 12422 \text{ Sq. Yds.}$$

Bedrock

$$\begin{array}{r} 7370 \\ 6689 \\ \hline 681 \end{array}$$

$$\begin{array}{r} 8060 \\ 7370 \\ \hline 690 \end{array}$$

$$685 \times 17.67 = 12104$$

$$\text{Avg Area} = 12263$$

$$12263 \times \frac{32.3}{3} = 132032 \text{ Cu. Yds.}$$

$$\frac{132032}{30} = 4401 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{132032}{26.02} = 5074 \text{ running}$$

Pond Elev. - 1103.9

Claims dredged 1- 2 1/2 - 4 1/2 - 3 Last Chance

Surface Area - 2.57 Acres

Avg Width - 110 ft.

Length - 975

$$\begin{array}{r} 12422 \\ 9 \\ \hline 111798 \end{array}$$

$$\begin{array}{r} 12104 \\ 9 \\ \hline 108936 \end{array}$$

$$\begin{array}{r} 12263 \\ 9 \\ \hline 110367 \end{array}$$

No w/o

Dredge N: 11

October 1958

Dredge operated 31 days

Dug 674 hrs. 25 min = 28.10 days - 90.65 20
 lost 69 " 35 " = 2.90 " = 9.35 20

Avg Hgt Bank = 5.7 ft.

Depth = 24.1

Total = 29.8

(6.0)

Surface

7984
~~7262~~
 688

8680 9380
~~7980 8680~~
 700 700

700 x 17.67 = 12369 Sq. Yds.

Bedrock

1083
~~0426~~
 657

1756 2424
~~1083 1756~~
 673 668

670 x 17.67 = 11839
~~24208~~

Avg Area = 12104

12104 x 29.8 = 120233 Cu. Yds.

120233 / 31 = 3878 Cu Yds per day elapsed time

120233 / 28.10 = 4279 - running -

Pond Elev - 1096.1
 Claims dredged - N: 1 on L.C. - OLC Hunter
 Surface Area - 2.56 Acres
 Avg width - 315 ft.
 Length - 370

12369
 9
 111321

11839
 9
 106551

12104
 9
 108936

Thaw w/o
No Writeoff

Strip w/o
No Writeoff

Dredge No 11 November 1948
 Cut Hgt. of Bank 1.0 ft. Shut down Nov 14 - 9:30 AM
 Dredge operated 13 days
 dug 283 hrs. 25 min = 11.81 days = 90.84 %
 lost 28 - 35 = 1.19 = 9.16 %
 Avg Hgt Bank = 5.6 - 1.0 ft = 4.6 ft.
 Depth = 23.1 -
 Total = 22.7 - (6.0)

Surface

4718

5030

4402

4718

316

312

314 × 17.67 =

5548

Sq. Yds.

Bedrock

5363

5682

5041

5363

322

319

321 × 17.67 =

5672

Sq. Yds.

2) 11,220

Avg. Area =

5610

Sq. Yds.

$$\frac{1870}{5610} \times \frac{27.7}{3} = 51,799 \text{ Cubic Yards}$$

$$\frac{51,799}{13} = 3,985 \text{ Cubic Yards per day Elapsed time}$$

$$\frac{51,799}{11.81} = 4,386 \text{ Running}$$

Pond Elev - 1088.1
 Claims dredged - O.L.C.
 Surface Area - 1.15 Acres.
 Avg width - 190'
 Length - 275'

$$\begin{array}{r} 5548 \\ 9 \\ \hline 49,932 \end{array}$$

$$\begin{array}{r} 5672 \\ 9 \\ \hline 51,048 \end{array}$$

$$\begin{array}{r} 5610 \\ 9 \\ \hline 50,490 \end{array}$$

Shaw w/o
No Writeoff

Strip w/o

X2 185-186 - 25% Remainder = 4816 Cuyd.

- 186-187 - 25% ✓ $\times \frac{2}{3}$ = 2460 ✓

Total = 7276 ✓

Dredge No 11 May 1959

started May 10 8:00 AM

Dredge Operated 22 days - 16 days for depth.
 ✓ Dug 334 hrs 05 mins = 13.92 days = 63.27 %
 ✓ Lost 193 " 55 " = 8.08 " = 36.73 %
 Avg. Hgt of bank = 1.4 Ft.
 " Depth = 22.4 "
 Total " = 23.8 " (5.0)

Surface

3748	4026	
3465	3748	
283	278	$281 \times 17.67 = 4,965$ Sq. Yds.

Bedrock

4307	4569	
4038	4307	
269	262	$266 \times 17.67 = 4,700$ Sq. Yds.

Avg Area = $2 \frac{4,700 + 4,965}{2} = 4,833$ Sq. Yds.

$4833 \times 23.8 = 38,342$ Cubic Yards

$\frac{38,342}{22} = 1,743$ Cubic Yards per day Elapsed time

$\frac{38,342}{13.92} = 2,754$ Running

Note - No 11 lost 16 hrs. 30 min when Lost Chance Hyd. Tails filled its dredge pond

Pond Elev. - 1085.2
 Claims dredged - 0. L.C.
 Surface Area - 1.03 acres.
 Avg Width - 180'
 " Length - 260'

4965
 9
 44,685

4700
 9
 42,300

4833
 9
 43,497

Thaw W/O

Block # 77

22.2

✓ 393

4694

699

6089

✓ 393

696

$$698 \times 159.05 \times 22.2 = 91281 \text{ Cu Yds}$$

27

Strip W/OX² 184-185 - Remainder

$$= 6280 \text{ Cu Yds.}$$

185-186 -

✓

$$= 14447$$

✓

186-187 -

3/4

✓

$$= 9222$$

✓

187-188 -

1/6

✓

$$= 2307$$

✓

188-189 -

1/7

✓

$$= 2326$$

✓

$$\text{Total} = 34582$$

✓

Claim OLC - Hunter - M.H. Jones

Area actually dredged - 1" = 100'

From June 1st to 21st incl.

$$\text{Surface} - \begin{array}{r} 9145 \\ 8279 \\ \hline 8661 \end{array} \quad \begin{array}{r} 10014 \\ 9145 \\ \hline 8691 \end{array} \quad 868 \times 159.05 = 138055 \text{ Sq. Ft.}$$

$$\text{Bedrock} - \begin{array}{r} 0899 \\ 0020 \\ \hline 8791 \end{array} \quad \begin{array}{r} 1773 \\ 0899 \\ \hline 8741 \end{array} \quad \begin{array}{r} 2660 \\ 1773 \\ \hline 8871 \end{array} \quad \begin{array}{r} 3542 \\ 2660 \\ \hline 8821 \end{array} \quad 881 \times 159.05 = 140123 \quad \checkmark$$

$$\checkmark \quad \begin{array}{r} 278178 \\ \hline \end{array}$$

$$\text{Avg. Area} = 139089 \quad \checkmark$$

$$4 \text{ per Sq. Ft.} = \frac{\text{Recovery}}{139089} =$$

Area of claims OLC which should have been dredged

$$\text{Surface} - \begin{array}{r} 4755 \\ 3790 \\ \hline 9651 \end{array} \quad \begin{array}{r} 5720 \\ 4755 \\ \hline 9651 \end{array} \quad 965 \times 159.05 = 153483 \text{ Sq. Ft.}$$

$$\text{Bedrock} - \begin{array}{r} 6720 \\ 5743 \\ \hline 977 \end{array} \quad \begin{array}{r} 7690 \\ 6720 \\ \hline 9701 \end{array} \quad \begin{array}{r} 8670 \\ 7690 \\ \hline 980 \end{array} \quad \begin{array}{r} 0603 \\ 9633 \\ \hline 9701 \end{array} \quad 970 \times 159.05 = 154278 \quad \checkmark$$

$$\checkmark \quad \begin{array}{r} 307761 \\ \hline \end{array}$$

$$\text{Avg Area} = 153880 \quad \checkmark$$

Dredge No 11 June 1959

Dredge Operated 30 days

✓ Dug 649 hrs. 20 mins = 27.06 days = 90.19%

✓ Lost 70 ✓ 40 ✓ = 2.94 ✓ = 9.81%

Avg. Hgt of Bank - 2.4 ft

✓ Depth - 18.6

Total ✓ - 21.0 ✓

5.9

Surface

2687

3890

1482

2687

1205 ✓

1203 ✓

1204 × 17.67 =

21,275 ✓

Sq Yds.

Bedrock

5100

6284

3910

5100

1190 ✓

1184 ✓

1187 × 17.67 =

20974 ✓

Sq Yds

2 | 42,249 ✓

Avg. Area =

21,125 ✓

✓ 7
21,125 × 7 = 147,875 ✓ Cubic Yards

147,875
30 = 4,929 Cubic Yards per day Elapsed time

147,875
27.06 = 5,465 ✓ ✓ ✓ ✓ Running ✓

Pond Elev - 1080.8

Claims dredged - OLC 1 below Last Chance.

Surface Area - 4.4 acres

Avg. Length - 975'

✓ Width - 200'

21,275
9

191,475 ✓

20,974
9

188,766 ✓

21,125
9

190,125 ✓

Thaw W/O

Block 77 - $211 \times 201 \times 22.2$
 $\frac{1}{7}$

= 34871 ✓ Cu Yds

Strip W/O

X² 186-187 - Remainder

= 3073 Cu Yds.

187-188 - ✓

= 11534 ✓

188-189 - ✓

= 13959 -

Total = 28566 ✓ ✓

Dredge # 11

July 1959

Dredge operated 31 days

- dug 673 hrs. 50 min. = 28.08 days = 90.57 $\frac{70}{10}$
 - lost 70 " 10 " = 2.92 " = 9.43 $\frac{70}{10}$

Avg Hgt Bank = 5.4 Ft.

Depth = 19.3 -

(6.0)

Total = 24.7 -

Surface

2436	2684	4823	6013
1262	2436	2684	4823
1171	1198	1189	1190

 $1190 \times 17.67 = 21027$ 59.46

Bedrock

7194	8375
6016	7194
1178	1181

 $1180 \times 17.67 = 20851$
 $\frac{11878}{11878}$

Avg Area = 20939

 $20939 \times 24.7 = 172398$ Cu. Yds.

 $\frac{172398}{31} = 5561$ Cu. Yds. per day elapsed time

 $\frac{172398}{28.08} = 6140$ - running -

Pond Elev - 1099.0
 Claims dredged 1 Bel. L.C. + 2 Bel. L.C. on Hunter
 Surface Area - 4.34 Acres
 Avg width - 225 Ft.
 Length - 750

21027	20851	20939
9	9	9
189243	187659	188451

Thaw W/O

$$\text{Block \# 77} - \frac{185 \times 55 \times 22.2}{27} = 8366 \text{ Cu. Yds.}$$

$$\text{Block \# 79} - \frac{190 \times 160 \times 22.0}{27} = 24770$$

$$\text{Total} = 33136 \checkmark$$

Strip W/O

$$\text{X}^2 \text{ 189-190} - \frac{3}{4} \text{ Remainder} = 13803 \text{ Cu. Yds.}$$

$$190-191 - \frac{3}{4} \checkmark = 15021 \checkmark$$

$$191-192 - 1170 \checkmark = 2300 \checkmark$$

$$\text{Total} = 31124 \checkmark$$

DREDGE # 11 AUGUST 1959

Dredge Operated - 31 days
 ✓ Dug - 676 hrs. or min. = 28.17 days = 90.87 %
 ✓ Lost - 67 - 55 ✓ = 2.83 - = 9.13 %
 Avg Hgt of bank - 4.7 Ft.
 ✓ Depth - 19.5 -
 Total depth - 24.2 ✓

(6.0)

Surface
 2116
 1138
 978 ✓
 3086
 2116
 970 ✓
 974 × 17.67 = 17,211 ✓ Sq. Yds

Bedrock
 4093
 3116
 977 ✓
 5068
 4095
 973 ✓
 975 × 17.67 = 17,228 ✓ Sq. Yds.
 2134439
 Avg. Area = 17,220 ✓ Sq. Yds.

5740
 17,220 × 24.2 = 138908 ✓ Cubic Yards
 3

$\frac{138908}{31} = 4481$ Cu. Yds. per day elapsed time
 $\frac{138908}{28.17} = 4931$ - running -

Pond Elev - 1077.0
 Claims dredged - 1 and 2 below L.C.
 Surface Area 3.56 acres.
 Avg. width of cut 225'
 Length - 685'

17,211
 9
 154,899 ✓

17,228
 9
 155,052 ✓

17,220
 9
 154,980 ✓

= 31819 Cu.Yds.

Total = 116387 ✓

Strip w/o

$$= 3068 \text{ Cu. Yds.}$$

192-193 - 1/5 - = 3181 ✓

193 - 194 - 1/4 ✓ - 3401 ✓

$$194 - 195 = 1/4 \quad \checkmark \quad = 5,16 \quad \checkmark$$

Total = 25724 ✓

Dredge # 11 September 1959

Dredge Operated 30 days

✓ Dug - 638 hrs 20 mins = 26.60 days = 88.66%

✓ Lost - 81 ✓ 40 ✓ = 3.40 ✓ = 11.34%

Avg. hgt of bank - 2.8 ft.

✓ Depth - 18.0 ✓

Total ✓ - 20.8 ✓

(6.0)

Surface

10746

1858

9640

0746

1106 ✓

1112 ✓

1109 × 17.67 = 19,596 ✓ Sq. Yds.

Bedrock

2943

4007

1876

2943

1067 ✓

1064 ✓

1066 × 17.67 = 18,836 ✓ Sq Yds.

2) 38432 ✓
19,216 ✓

19,216 × 20.8 = 133,231 ✓ Cubic Yards.

133,231 ÷ 30 = 4,441 ✓ Cubic Yards per day Elapsed time

133,231 ÷ 26.60 = 5,009 ✓ Running ✓

Pond Elev. 1072.6

Claims dredged - 2 L.C. 2 A below L.C.

Surface Area - 4.05 acres.

Avg. width - 220'

✓ Length - 800'

19,596

9

176,364 ✓

18,836

9

169,524 ✓

19,216

9

172,944 ✓

Dredge # 11 Yardage June 1 - 17 incl.

Dredge Operated. 18 days.

Average depth. 20.31 feet.

<u>Surface.</u>	7667	8341			
	<u>6984</u>	<u>7667</u>			
	683	674	$679 \times 17.67 =$	11,998	Sq. Yds.

<u>Bedrock</u>	8973	9632			
	<u>8320</u>	<u>8973</u>			
	653	659	$656 \times 17.67 =$	11,592	Sq. Yds.
				$\approx 23,590$	
			Avg. Area =	11,795	Sq. Yds.

$\frac{11,795 \times 6.77}{3} = 79,852$ Cubic Yards.

$\frac{79,852}{18} = 4,436$ Cubic Yards per day Elapsed time.

Pond Elev. = 1081.2
Avg. width. = 200'
" Length = 530'
Surface Area = 2.43 Acres..
Claims dredged - O.L.C.

Dredge # 11

July 1-12 incl.

Dredge operated 12 days.

Avg. depth below water 16.7'

" Total depth 28.8'

Surface

7110
6718
392

7505
7110
395

$394 \times 17.67 = 6,962$ Sq. Yds.

Bedrock

7923
7524
399

8324
7923
401

$400 \times 17.67 = 7,068$ Sq. Yds.

Avg Area = $\frac{7,068}{2} = 3,534$ Sq. Yds.

$3,534 \times \frac{9.6}{3} = 11,312$ Cubic Yards.

$\frac{11,312}{12} = 942.7$ Cubic Yards per day Elapsed Time.

Pond Elev. = 1084.5'

Surface Area = 1.4 Acres

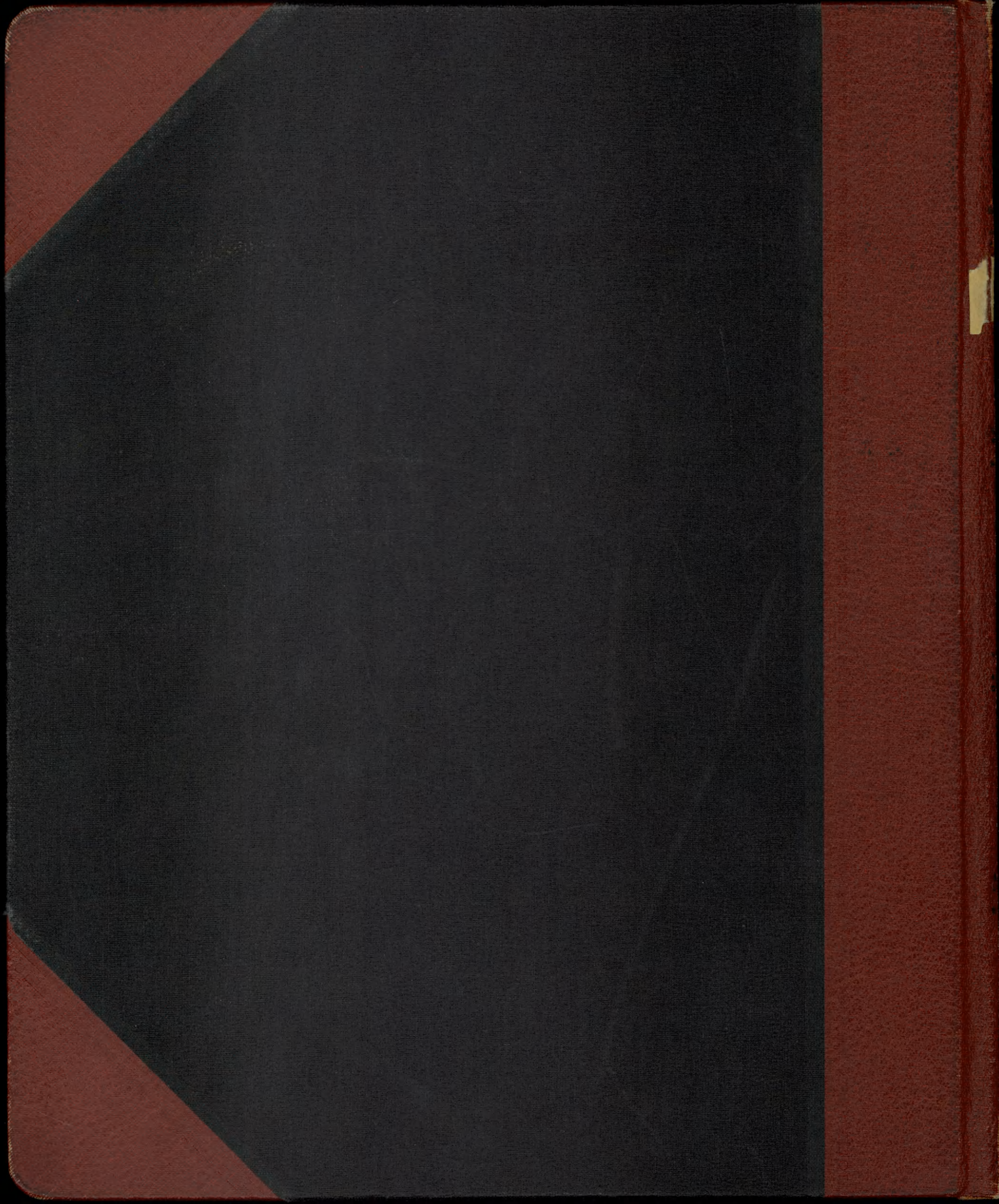
BLANK BOOKS and LOOSE LEAF DEVICES

MANUFACTURED TO YOUR ORDER

For a duplicate of this ask for No. 1740-Q-150

CLARKE & STUART CO. LTD.

STATIONERS, PRINTERS, BOOKBINDERS
550 Seymour Street VANCOUVER, B. C.





Library and Archives
Canada

395 Wellington Street
Ottawa, ON K1A 0N4

Bibliothèque et Archives
Canada

395, rue Wellington
Ottawa, ON K1A 0N4

For material still subject to legislative, contractual or institutional obligations, users warrant that they will respect those obligations and not use LAC collections in a manner that would infringe the rights of others. Liability that may arise in the use of a copy is assumed in full by the user. LAC accepts no responsibility for unauthorized use of collection material by users.

To ensure proper citation and to facilitate relocation of an item, the source of the material and its reference number should always accompany the copy.

Pour les documents faisant encore l'objet d'obligations législatives, contractuelles ou institutionnelles, les usagers s'engagent à respecter ces obligations et à ne pas utiliser les documents des collections de BAC de façon à nuire aux droits d'autrui. Ils doivent assumer entièrement toute responsabilité qui pourrait découler de l'utilisation d'une reproduction de document. BAC décline toute responsabilité quant à l'utilisation non autorisée de documents provenant de ses collections.

Afin de citer un document avec exactitude et d'en faciliter le repérage, sa source et son numéro de référence doivent toujours accompagner la reproduction.

TITLE/TITRE _____
RG _____ MG ²⁸ _____ R- _____ SERIES/SÉRIE ^{III 43} _____
ACCESSION _____ VOL ¹⁵⁹ _____ PAGE(S) ¹⁶² _____
BOX/BOÎTE _____ REEL/BOBINE _____
FILE/DOSSIER ^{DREDGE NO.11} _____
DATE ^{MARCH 2015} _____