

DR. N^o 4

Dredge No 4



"END-BOUND" BLANK BOOKS
PROTECTED AT POINTS OF GREATEST WEAR

BROWN & GREEN RULING
ON GREEN TINTED PAPER

740 $\frac{1}{2}$	UNRULED
741 $\frac{1}{4}$	QUADRILLE, (NOT PAGED)
741 $\frac{1}{2}$	FAINT
752	TWO COLUMNS
753	THREE COLUMNS
754	FOUR COLUMNS
755	FIVE COLUMNS
756	SIX COLUMNS
756 $\frac{1}{2}$	SIX COLUMNS, DIVIDED
757	SEVEN COLUMNS
758 $\frac{1}{2}$	EIGHT COLUMNS
759	TEN COLUMNS, DOUBLE PAGE FORM
742	TWELVE COLUMNS, DOUBLE PAGE FORM
744	FOURTEEN COLUMNS, DOUBLE PAGE FORM
746	SIXTEEN COLUMNS, DOUBLE PAGE FORM
748	EIGHTEEN COLUMNS, DOUBLE PAGE FORM
750	TWENTY COLUMNS, DOUBLE PAGE FORM
ALL 3 FAINT AND UNITS 150 AND 300 PAGES	

STATE RULING AND THICKNESS WANTED

TO DUPLICATE THIS BOOK
ORDER NO.

MADE IN CANADA

72 Buckets (New)

78 ✓ EXTENSION

542
556
101

Virgin Bedrock - Oct - 1944

Est. Depth - 94'

$$\begin{array}{r} 2460 \\ 2277 \\ \hline 183 \end{array}$$

$$\begin{array}{r} 2638 \\ 2460 \\ \hline 178 \end{array}$$

$$180 \times 17.57 = 3163 \text{ Sq. Yds.}$$

$$3163 \times \frac{94}{3} = \underline{\underline{99107 \text{ Cu. Yds.}}}$$

Remaining Virgin Bedrock

$$\begin{array}{r} 7107 \\ 5350 \\ \hline 1757 \end{array}$$

$$\begin{array}{r} 8870 \\ 7107 \\ \hline 1763 \end{array}$$

$$1760 \times 17.57 = 30923 \text{ Sq. Yds.}$$

$$30923 \times \frac{94}{3} = \underline{\underline{968921 \text{ Cu. Yds.}}}$$

1" = 100'
 Factor = 18.07
 = Sq. Yds.
 Vernier at 34

Dredge No 4 May 1938

Dredge started May 3 - 1:20 p.m.

Dredge operated 28.74 days

✓ dug 612 hrs 2 min = 25.5 days = 88.74 %
 ✓ lost 77 " 38 " = 3.24 " = 11.26 %

Avg Hgt. of Bank = 4.7 Feet.

Avg. Depth = 34.9 "

Total Depth = 39.6 "

Surface

8606	6085	6718	7350
7975	5458	6085	6718
631	677	633	632

631 x 18.07 = 11402 Sq. Yds.

Bedrock

9134	9694	0251
8576	9134	9694
558	560	557

559 x 18.07 = 10101 Sq. Yds.

2 21503

Avg Area = 10752 Sq. Yds.

$\frac{10752 \times 39.6}{3} = 141926 \text{ Cu. Yds.}$

$\frac{141926}{28.74} = 4938 \text{ Cu. Yds. per day elapsed time}$

$\frac{141926}{25.5} = 5565 \text{ " " " " running time.}$

Stripping Writeoff

Line 42 - 0

✓ 41 - 0

✓ 40 - 0

✓ 39 - $55 \times 2.5 + 25 \times 1 = 162.5 \text{ Sq. Ft.}$

✓ 38 - $5 \times 10 = 50 \text{ " "}$

✓ 37 - 0

Between lines 39 + 40 - $\frac{81 \times 100}{27} = 300 \text{ Cu. Yds.}$

✓ " 38 + 39 - $\frac{106 \times 100}{27} = 393 \text{ " "}$

✓ " 37 + 38 - $\frac{25 \times 100}{27} = 96 \text{ " "}$

789 " " = Total Stripping Writeoff.

Thawing Writeoff

Unit No 10

6674	7077
6170	6674
454	453

 $453 \times 162.6 = 73658 \text{ Sq. Ft.}$ $\frac{73658 \times 29.4}{27} = 80205 \text{ Cu. Yds.}$

Unit No 9

7148	7219
7077	7148
71	71

 $71 \times 162.6 = 11545 \text{ Sq. Ft.}$ $\frac{11545 \times 30.6}{27} = 13084 \text{ " "}$

Total Thawing Writeoff = 93289 " "

✓
3 25654
8123
Hob
51316
342120
347, 2, 18

1" = 100'

Factor = 18.07

= sq. yds

Vernier at 34.

DREDGE No 4 JUNE 1938

DREDGE operated 30 days

" dug 630 hrs. 15 min. = 26.26 days = 87.53 %

" lost 89 " 45 " = 3.74 days = 12.47 %

Avg. Hgt of Bank = 5.2'

" Depth = 35.4'

Total depth 40.6'

SURFACE:

2585	4063	5525	= 1469 X 18.07 = 26545 sq. yds.
1112	2585	4063	
1473	1478	1462	

BEDROCK

6921	8303	9674	= 1371 X 18.07 = 24774 sq. yds.
5551	6921	8303	
1370	1382	1371	

Avg. Area: 25659 sq yds

$\frac{25659 \times 40.6}{3} = 347,252 \text{ cu. yds.}$

$\frac{347,252}{30} = 11,242 \text{ cu. yds per day elapsed time}$

$\frac{347,252}{26.26} = 13,224 \text{ cu. yds per day running time}$

Stripping write off

Line 32 all

" 33 all

" 34 all

" 35 108 X 16.26 = 1756 sq. ft.

" 36 50 X 30 = 750 sq. ft.

Between lines 31 + 32 all 6159 cu. yds

" " 32 + 33 all 6686 "

" " 33 + 34 all 6325 "

" " 34 + 35 all 7190 "

" " 35 + 36 $\frac{1253 \times 100}{27} = 4641 \text{ cu. yds.}$

" " 36 + 37 $\frac{375 \times 100}{27} = 1389 "$

Total stripping write off = 32,390 cu. yds

Thawing write off

UNIT No 9 $\frac{2514}{577} \frac{3076}{562} \frac{3645}{569} = 569 \times 162.6 \frac{92519 \times 30.6}{27} = 104,855 \text{ cu. yds.}$

Total thawing write off = 104,855 cu. yds.

Fac = 16.26

Stripping Writeoff

$$\begin{array}{r} \text{Line 43. } \frac{2474}{2395} \quad \frac{2555}{2474} \quad \frac{2635}{2555} \\ \hline 79 \quad 81 \quad 80 \end{array}$$

$$= 80 \times 16.26 = 1300 \text{ sq. ft.}$$

$$\text{Line 44. } \frac{2470}{2370} \quad \frac{2555}{2470} \quad \frac{2635}{2555}$$

$$= 75 \times 16.26 = 1220 \text{ sq. ft.}$$

Between Lines 35 + 36 2626 cu. yds

36 - 37 6522 "

37 - 38 7818 "

38 - 39 7272 "

39 - 40 8391 "

40 - 41 6758 "

41 - 42 3617 "

42 - 43 1462 "

43 - 44 $1260 \times 100 = 126,000 \div 27 = 4662 \text{ cu. yds.}$

44 - 45 $1220 \times 25 = 30,500 \div 27 = 1129 \text{ "$

Fac: 162.6

Total 50,257 cu. yds.

Thawing Writeoff

Block # 9 = All = 62706 sq. ft.

71.128 cu. yds.

Block # 10 = All = 85228

92.814 cu. yds.

$$\begin{array}{r} \text{Block # 11 } \frac{3217}{2681} \quad \frac{3756}{3217} \quad \frac{4243}{3756} \\ \hline 536 \quad 539 \quad 537 \end{array}$$

$$= 537 \times 162.6 = 87,316 \text{ sq. ft.} \times \frac{27.6}{27} = 89,256 \text{ cu. yds.}$$

Total 253,198 cu. yds.

1" = 100'
 Factor 18.07
 = Sq. yds.
 Vernier at 34

DREDGE N^o 4

Pond elev. 983.50
 July 1938

Dredge operated 31 days

✓ dug 673 hrs. = 28.04 days = 90.46 % ✓
 ✓ lost 71 hrs = 2.96 " = 9.54 % ✓

Avg. hgt of bank = 7.8 feet ✓
 " depth = 24.0 " ✓
 Total depth 31.8 feet ✓

SURFACE

6537 7869 9206
 5200 6537 7869 = 1335 X 18.07 = 24123 Sq. yds ✓
 1337 1332 1337

Bedrock

0625 1983 3345 4708
 9257 0625 1983 3345 = 1363 X 18.07 = 24629 ✓ ✓
 1368 1358 1362 1363

2148752

Avg. Area: 24376 Sq. yds ✓

24376 X 31.8 / 3 = 258,386 cu. yds. ✓

258386 = 8335 cu. yds per day - elapsed time ✓
 31

258386 = 9215 cu. yds. per day - running time ✓
 28.04

Stripping Writeoff

Line 43 = 80 X 16.26 = 1300 sq. ft. =

Line 44 = 75 X 16.26 = 1220 sq. ft. =

Between Lines 35-36	2626 cu. yds
✓ 36-37	6522 ✓
✓ 37-38	7818 ✓
✓ 38-39	7272 ✓
✓ 39-40	8391 ✓
✓ 40-41	6758 ✓
✓ 41-42	3617 ✓
✓ 42-43	1462 ✓
✓ 43-44 = 1260 X ¹⁰⁰ /27	4662 ✓
✓ 44-45 = 1220 X ²⁵ /27	1129 ✓

Total stripping write off 50257 cu. yds.

Thawing Writeoff

Block # 9 62706 sq. ft. 71128 cu. yds.

Block # 10 85228 " 92814 ✓

Block # 11 87316 " 89256 ✓

Total thawing write off 253,198 cu. yds.

stripping writeoff

Line # 44	$\frac{1850}{1764} \frac{1487}{86} \frac{2024}{1937} \frac{87}{87}$	$= 87 \times 16.26 = 1415$	✓
✓ # 45	$\frac{1637}{1546} \frac{1730}{1637} \frac{1818}{1730} \frac{90}{90}$	$= 90 \times 16.26 = 1463$	✓
✓ # 46	$\frac{0797}{0697} \frac{0857}{0792} \frac{0881}{0697} \frac{95}{94}$	$= 95 \times 16.26 = 1545$	✓
✓ # 47	$\frac{9287}{7164} \frac{9410}{7287} \frac{9531}{9410} \frac{123}{123}$	$= 123 \times 16.26 = 2000$	✓
✓ # 48	$\frac{8609}{8472} \frac{8741}{8609} \frac{8977}{8741} \frac{135}{135}$	$= 135 \times 16.26 = 2195$	✓
✓ # 49	$\frac{7113}{6957} \frac{7276}{7113} \frac{7423}{7276} \frac{155}{155}$	$= 155 \times 16.26 = 2520$	✓
✓ # 50	$\frac{6795}{6643} \frac{6949}{6795} \frac{7101}{6949} \frac{153}{153}$	$= 153 \times 16.26 = 2488$	✓
✓ # 51	$\frac{3910}{3627} \frac{3980}{3910} \frac{4058}{3980} \frac{74}{74}$	$= 74 \times 16.26 = 1203$	✓

Between lines 44 + 45	$= 1439 \times 90/27 = 4797$	cu. yds.	✓
45 - 46	$= 1504 \times 100/27 = 5565$		✓ ✓
46 - 47	$= 1773 \times 100/27 = 6560$		✓ ✓
47 - 48	$= 2098 \times 100/27 = 7763$		✓ ✓
48 - 49	$= 2358 \times 100/27 = 8725$		✓ ✓
49 - 50	$= 2504 \times 100/27 = 9265$		✓ ✓
50 - 51	$= 1846 \times 100/27 = 6830$		✓ ✓
Total	49,505	cu. yds.	✓

Thawing writeoff

Block # 11	$\frac{1004}{0908} \frac{1105}{1004} \frac{1199}{1105} \frac{1294}{1199}$	$= 95 \times 162.6 = 15447$	34ff
Block # 12	$\frac{1818}{1294} \frac{2323}{1818} \frac{2835}{2323} \frac{3351}{2835}$	$= 515 \times 162.6 = 83739$	✓
Block # 13	$\frac{4463}{4370} \frac{5548}{4463} \frac{6148}{5548} \frac{6735}{6148}$	$= 588 \times 162.6 = 95609$	✓
Block # 11	$= 15447 \times 27.6/27 = 15,790$	cu. yds.	✓
# 12	$= 83739 \times 29.1/27 = 90,252$	cu. yds.	✓
# 13	$= 95609 \times 28/27 = 99,150$	cu. yds.	✓
Total	205,192	cu. yds.	✓

chkd JDS

1" = 100'

Factor = 18.07

= sq yds

Vernier at 34

DREDGE N^o 4

August 1938

Dredge operated 31 days.

✓ dug 685 Hrs. 40 min. = 28.57 days = 92.16% ✓
✓ lost 58 Hrs. 20 min. = 2.43 days = 7.84% ✓

Average Hgt of bank 6.6 feet ✓

✓ depth 23.7 ✓

Total depth 30.3 ✓

Surface:

$$\begin{array}{r} 0416 \\ 9262 \\ \hline 1154 \end{array} \quad \begin{array}{r} 1574 \\ 0416 \\ \hline 1158 \end{array} \quad \begin{array}{r} 2731 \\ 1574 \\ \hline 1157 \end{array} = 1156 \times 18.07 = 20889 \text{ sq. yds.}$$

Bedrock:

$$\begin{array}{r} 3802 \\ 2743 \\ \hline 1059 \end{array} \quad \begin{array}{r} 4862 \\ 3802 \\ \hline 1060 \end{array} \quad \begin{array}{r} 5920 \\ 4862 \\ \hline 1058 \end{array} = 1059 \times 18.07 = 19136 \text{ sq yds.}$$

2 | 40025

Avg. Area = 20013 sq yds. ✓

$20013 \times \frac{30.3}{3} = 202131 \text{ cu. yds.}$ ✓

$\frac{202131}{31} = \overset{6520}{6738} \text{ cu yds per day: elapsed time}$

$\frac{202131}{28.57} = 7075 \text{ cu. yds per day: running time}$ ✓

CHAD. JDS.

THAWING WRITE OFF

Block #13 $\frac{8574}{121} \frac{8689}{115} \frac{8806}{117} \frac{8928}{122} = 119 \times 162.6 = 19349 \text{ Sq. Ft.}$

Block #15 $\frac{9795}{867} \frac{9661}{866} \frac{1525}{864} = 865 \times 162.6 = 140649$

Block #16 $\frac{2494}{144} \frac{2636}{142} \frac{2782}{146} = 144 \times 162.6 = 23414$

#13 $19349 \times \frac{28.0}{27} = 20,066 \text{ Cu Yds}$

#15 $140649 \times \frac{23.6}{27} = 122,938$ " "

#16 $23414 \times \frac{24.5}{27} = 21,246$ " "

Total 164,250 Cu Yds.

STRIPPING WRITE-OFF.

Line	50	$\frac{9382}{2345} \frac{9419}{9382} \frac{9454}{9419}$	$= 36 \times 16.26 = 585$	Sq. Ft. } 50-51
{	51	$\frac{9600}{9400} \frac{9740}{9600} \frac{9880}{9740}$	$= 140 \times 16.26 = 2276$	" " }
{	51	$\frac{9880}{214} \frac{9880}{214} \frac{9880}{214}$	$= 214 \times 16.26 = 3480$	Sq. Ft. } 51-52
	52	$\frac{1122}{167} \frac{1122}{167} \frac{1122}{167}$	$= 167 \times 16.26 = 2715$	" " }
	53	$\frac{1583}{183} \frac{1583}{183} \frac{1583}{183}$	$= 183 \times 16.26 = 2976$	" "
	54	$\frac{2256}{138} \frac{2256}{138} \frac{2256}{138}$	$= 138 \times 16.26 = 2243$	" "
	55	$\frac{2540}{131} \frac{2540}{131} \frac{2540}{131}$	$= 131 \times 16.26 = 2130$	" "

Between 49-50 - $585 \times \frac{50}{27} = 1083 \text{ Cu. Yds}$

50-51 - $1430 \times \frac{100}{27} = 5297$ " "

51-52 - $3097 \times \frac{100}{27} = 11471$ " "

52-53 - $2845 \times \frac{100}{27} = 10538$ " "

53-54 - $2610 \times \frac{100}{27} = 9667$ " "

54-55 - $1187 \times \frac{100}{27} = 4397$ " "

Total 42,453 " "

1" = 100'

DREDGE N^o 4

SEPTEMBER 1938

Factor 18.07

= sq. yds.

Vernier at 34

DREDGE operated 30 days.

- dug 644 Hrs. 15 min. = 26.84 days = 89.48 % ✓
- lost 75 Hrs. 45 min. = 3.16 days = 10.52 % ✓

Avg. Hgt. of Bank = 3.6 Feet. ✓

Depth 21.5 ✓ ✓

Total Depth. 25.1 ✓ ✓

SURFACE: $\frac{9191}{8061} \frac{0321}{9191} \frac{1457}{0321} = 1132 \times 18.07 = 20445$ ^{sq.} yds ✓

BEDROCK $\frac{2643}{1555} \frac{3728}{2643} \frac{4819}{3728} = 1088 \times 18.07 = 19660$ ✓ ✓

$2 \overline{) 40105} = 20053$ ^{sq.} yds ✓

$20053 \times 25.1/3 = 167.777$ cu. yds. ✓

$\frac{167777}{30} = 5593$ cu. yds. per day : elapsed time. ✓

$\frac{167777}{26.84} = 6251$: running time. ✓

OK ✓

1" = 10' Vert
 1" = 100' Hor.
 Factor = 16.26
 = Sq. Ft.

Stripping Writeoff - Oct. 1938

					Avg. Area.	Cu Yds.
X Sect 53			(20')		1415	1048
X Sec 54	$\frac{5776}{86}$	$\frac{5814}{88}$	87 x 16.26	= 1415	1496	5541
X Sec 55	$\frac{6016}{96}$	$\frac{6114}{98}$	97 x 16.26	= 1577	1593	5900
X Sec 56	$\frac{7364}{101}$	$\frac{7461}{97}$	99 x 16.26	= 1610	1967	6285
X Sec 57	$\frac{6637}{144}$	$\frac{6780}{143}$	143 x 16.26	= 2325	2634	9755
" 58	$\frac{2135}{185}$	$\frac{2316}{181}$	181 x 16.26	= 2943	3008	11141
" 59	$\frac{6932}{187}$	$\frac{1429}{1238}$	189 x 16.26	= 3073		
" 60			(20')		3073	2278

Total 41,948 cu yds.

1" = 100'
 Factor = 162.6
 = Sq. Ft.

Thawing Writeoff - Oct - 1938

Block # 16

$$\frac{4757}{810} \quad \frac{5568}{811} \quad 810 \times 162.6 = \frac{131706}{27} \times 24.4 = 119511 \text{ Cu Yds}$$

Block # 17

$$\frac{7560}{670} \quad \frac{8254}{664} \quad 667 \times 162.6 = \frac{108454}{27} \times 29.4 = \frac{118094}{23760} \text{ Cu Yds}$$

1" = 100'

DREDGE N°4

October 1938

Factor 18.07

= Sq yds

Vernier at 31

Dredge operated 31 days

" dug 641 hrs 15 min = 26.72 days = 86.19%

" lost 102 " 45 " = 4.28 " = 13.81%

Avg Hgt of Bank = 3.8 Feet

" Depth 23.1

Total Depth 26.9

Surface $\begin{array}{r} 5878 \\ 1561 \\ \hline 1369 \end{array} \begin{array}{r} 7248 \\ 5873 \\ \hline 1375 \end{array} \begin{array}{r} 8622 \\ 7248 \\ \hline 1374 \end{array} = 1374 \times 18.07 = 24828 \text{ Sq. yds.}$

Bedrock $\begin{array}{r} 9968 \\ 2592 \\ \hline 1316 \end{array} \begin{array}{r} 1230 \\ 2308 \\ \hline 1521 \end{array} \begin{array}{r} 2544 \\ 1229 \\ \hline 1317 \end{array} = 1317 \times 18.07 = 23798$

2 | 48626

Avg. Area = 24,313 Sq. yds.

$24313 \times \frac{26.9}{3} = 218,007 \text{ cu. yds. Total.}$

$\frac{218007}{31} = 7,032 \text{ cu. yds. per day - Elapsed Time}$

$\frac{218007}{26.72} = 8,159 \text{ " " " " - Running Time}$

J.D.S. Nov-2-38

Checked G.G.F.

1" = 10' vert
1" = 100' Horiz
Factor 16.26
= Sq Ft.

Recip. $\frac{100}{27} = 3.7037$

Stripping Write-off Nov. 1938

X. Sect 59

						Avg. Area.	Cu Yds
				3073			
"	60	$\frac{5589}{218}$	$\frac{5809}{220} = 219 \times 16.26$	3561		3317	12285 ✓
"	61	$\frac{7325}{257}$	$\frac{7580}{253} = 256 \times 16.26$	4163		3862	14303 ✓
"	62	$\frac{6326}{194}$	$\frac{6527}{201} \frac{6730}{203} = 202 \times 16.26$	3285		3724	13792 ✓
"	63	$\frac{8822}{172}$	$\frac{8945}{173} = 173 \times 16.26$	2813		3049	11292 ✓
"	64	$\frac{6620}{100}$	$\frac{8719}{99} = 100 \times 16.26$	1626		2220	8222 ✓
"	65						1807 ✓
						Total	61701

Total write-off 61701 cu. yds.

1" = 100'
Factor 162.6
= Sq ft.

Thawing Write-off Nov 1938

Block #17

$$\frac{9054}{275} \frac{9329}{275} \quad 275 \times 162.6 = \frac{14715}{27} \times 29.9 = 48690 \text{ cu. yds}$$

Block #18

$$\frac{1423}{944} \frac{2365}{942} \quad 943 \times 162.6 = \frac{153332}{27} \times 30.7 = 174344 \text{ " "}$$

Block #19

$$\frac{2981}{234} \frac{3219}{233} \quad 234 \times 162.6 = \frac{38048}{27} \times 30.4 = 42839 \text{ " "}$$

Total 265873 cu. yds.

1" = 100'

DREDGE No 4

November 1938

Factor 18.07

= Sq. Yds

Vernier at 34

Dredge operated 30 days

" dug 631 hrs 20 min = 26.3 days = 87.6%

" lost 88 " 40 " = 3.7 " = 12.4%

Avg Hgt of Bank 5.8 Feet

" Depth 25.4

Total Depth 31.2

Surface $\begin{array}{r} 7155 \\ 5817 \\ 1338 \end{array}$ $\begin{array}{r} 8496 \\ 7155 \\ 1331 \end{array}$ $\begin{array}{r} 9826 \\ 8486 \\ 1340 \end{array}$ = 1339 x 18.07 = 24196 Sq Yds

Bedrock $\begin{array}{r} 1105 \\ 9828 \\ 1277 \end{array}$ $\begin{array}{r} 2386 \\ 1105 \\ 1282 \end{array}$ $\begin{array}{r} 3661 \\ 2386 \\ 1275 \end{array}$ = 1276 x 18.07 = 23057 " "

2) 47253

Avg Area 23627 Sq. Yds

$23627 \times \frac{31.2}{3} = 245,720$ Cu. Yds. Total

$\frac{245720}{30} = 8,190$ cu yds. per day - Elapsed Time

$\frac{245720}{26.3} = 9,342$ cu yds. per day - Running Time

J.D.S. Dec. 1-38

1" = 100'
Factor 162.6

THAWING WRITE-OFF

= Sq. Ft.	BLOCK - 19	$\begin{array}{r} 8506 \\ 78 \times 3 \\ \hline 683 \end{array}$	$\begin{array}{r} 9182 \\ 8506 \\ \hline 676 \end{array}$	$\begin{array}{r} 0474 \\ 9298 \\ \hline 676 \end{array}$	= 676 x 162.6 = 109918 ✓ Sq Ft.
BLOCK - 20		$\begin{array}{r} 1282 \\ 0879 \\ \hline 403 \end{array}$	$\begin{array}{r} 2079 \\ 1677 \\ \hline 402 \end{array}$	$\begin{array}{r} 2483 \\ 2079 \\ \hline 404 \end{array}$	= 403 x 162.6 = 65528 ✓ Sq Ft.

BLOCK 19 109918 x $\frac{30.4}{27}$ = 123759 ✓

BLOCK 20 65528 x $\frac{28.8}{27}$ = 69896 ✓

Total Write-off = 193,655 cu. yds.

STRIPPING WRITE-OFF.

1" = 10' Vert 1" = 100' Horiz Fact. 162.6 = Sq. Ft. Reg $\frac{100}{27} = 3.7037$	X-Line	63		= 0	AV. Area.	Cu. yds.
					431 ✓	1596 ✓
	X "	64	$\begin{array}{r} 6925 \\ 6870 \\ \hline 55 \end{array}$	$\begin{array}{r} 6977 \\ 6925 \\ \hline 52 \end{array}$	= 53 x 162.6 = 862 ✓	1830 ✓ 6778 ✓
	X "	65	$\begin{array}{r} 7564 \\ 7394 \\ \hline 170 \end{array}$	$\begin{array}{r} 7737 \\ 7564 \\ \hline 173 \end{array}$	= 172 x " = 2797 ✓	2374 ✓ 8793 ✓
	X "	66	$\begin{array}{r} 9432 \\ 9313 \\ \hline 119 \end{array}$	$\begin{array}{r} 9552 \\ 9432 \\ \hline 120 \end{array}$	= 120 x " = 1951 ✓	1788 ✓ 6622 ✓
	X "	67	$\begin{array}{r} 9732 \\ 9631 \\ \hline 101 \end{array}$	$\begin{array}{r} 9832 \\ 9732 \\ \hline 100 \end{array}$	= 100 x " = 1626	1170 4333 ✓
	X "	68	$\begin{array}{r} 8937 \\ 8892 \\ \hline 45 \end{array}$	$\begin{array}{r} 8980 \\ 8937 \\ \hline 43 \end{array}$	= 44 x " = 715	
					Total	28122 ✓

Total write-off = 28,122 cu. yds.

CHKD. G.L.F.

$$1" = 100'$$

Factor 18.07

= 59 Yds.

Vernier at 34

DREDGE N^o 4

DECEMBER 28th 1938.

DREDGE OPERATED. 25 day = 600 hrs.

" DUG. 514 hrs 40 min = 21.44 days = 85.78% ✓

" Lost. 85 " 20 " = 3.56 " = 14.22% ✓

AVG HEIGHT OF BANK. = 5.2' ✓

" DEPTH. = 24.4' ✓

TOTAL DEPTH. = 29.6' ✓

SURFACE. = $\frac{2328}{1328} \frac{3326}{2328} \frac{4325}{3326} = 999 \times 18.07 = 18,052 \text{ Sq Yds}$ ✓

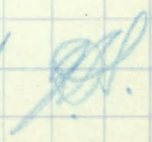
BEDROCK = $\frac{5240}{4272} \frac{6261}{5240} \frac{7167}{6261} \frac{8130}{7167} = 966 \times 18.07 = 17,456 \text{ Sq Yds}$ ✓

2 | 35,508
Avg Area 17,754 Sq Yds ✓

$17754 \times \frac{29.6}{3} = 175,173 \text{ cu. yds. Total}$ ✓

$\frac{175173}{25} = 7007 \text{ cu. yds. per day Elapsed Time}$ ✓

$\frac{175,173}{21.39} = 8189 \text{ cu. yds. per day Running Time}$ ✓

Chkd 

APRIL 1939.

stripping Write off

$$\text{Line \# 66} = 140 \text{ sq ft.}$$

$$\text{Line \# 67} = \frac{7359}{7321} \frac{7377}{7358} \frac{7404}{7377} \frac{7435}{7404} \frac{7458}{7435} \frac{7480}{7458} = 22 \times 16.26 = 358 \text{ sq ft.}$$

$$\text{Line \# 68} = 0$$

Between Lines

$$66-67 = 249 \times \frac{100}{27} = 922 \text{ cu. yds.}$$

$$67-68 = 179 \times \frac{100}{27} = 663 \text{ cu. yds.}$$

$$\text{Total: } 1585 \text{ cu. yds.}$$

Thawing Write off

$$\text{Block \# 20} : \frac{4480}{4405} \frac{4555}{4480} \frac{4630}{4555} = 75 \times 162.6 = 12195 \text{ sq ft.}$$

$$\text{Block \# 21} : \frac{4651}{4630} \frac{4674}{4651} \frac{4695}{4674} = 21 \times 162.6 = 3415 \text{ sq ft.}$$

$$\# 20 = 12195 \times \frac{28.8}{27} = 13008 \text{ cu. yds.}$$

$$\# 21 = 3415 \times \frac{23.7}{27} = 2998 \text{ cu. yds.}$$

$$\text{Total } 16006 \text{ cu. yds.}$$

$$1" = 100'$$

Factor 18.07

= Sq yds.

Vernier at 34

DREDGE N^o 4

APRIL 1939

Dredge operated 2 days.

Lost 7 Hrs 15 min = 0.3 days = 15.1%

Dug 40 " 45 min = 1.7 days = 84.9%

Avg. Hgt. of Bank = 4.0 Ft

depth (below) = 23.5

Total depth = 27.5

SURFACE $\frac{3873}{3782} \frac{3964}{3873}$

91 x 18.07 = 1644 Sq. yds.

BEDROCK

$\frac{4039}{3960}$

$\frac{4118}{4039}$

$\frac{4196}{4118}$

= 78 x 18.07

= 1409

2 | 3053

1527

1527 x $\frac{27.5}{3}$ = 13998 cu yds.

$\frac{13998}{2}$ = 6999 cu yds per day elapsed time

$\frac{13998}{1.7}$ = 8234 cu yds. per day running time

Pond Elev. 1005.3

Claim Dredged Anderson Concession

Surf Area 0.34 Acres.

Width of Cut 250'

Length of " 80'

J.C.C. MAY 2/39

G.G.F.

Stripping Write off

May 1939

1/6 of Present Inventory = 42506 Cu.Yds.

Thawing Inventory

1/6 of Present Inventory = 168,838 Cu.Yds.

Thawing Write off

Block # 20 Remainder = 10585 sq. ft. = 11450 cu. yds.

Block # 21 = 63914 = 54764

Block # 22 $\frac{8688}{8383} \frac{8994}{8688} = 306 \times 162.6 = 49756 \times \frac{24.8}{27} = 45702$
Total = 111,916 cu. yds.

Stripping Write off

Line # 61

Fac 16.26 x 17/27 = 60.22

= 0

5 x 60.22 = 301 cu. yds.

62 $\frac{6165}{6155} \frac{6175}{6165} = 10 \times 16.26$

26 x 60.22 = 1566

63 $\frac{5555}{5513} \frac{5597}{5555} = 42 \times 16.26$

45 x 60.22 = 2710

64 $\frac{5073}{5024} \frac{5121}{5073} = 48 \times 16.26$

56 x 60.22 = 3372

65 $\frac{5558}{5495} \frac{5622}{5558} = 64 \times 16.26$

5872 cu. yds.

66 Remainder

3300 cu. yds.

67 Remainder

1327 cu. yds.

68 Remainder

Total. 18448 cu. yds.

See next page.

DREDGE N^o 4

MAY 1939

1" = 100'

Fac. 18.07

= sq. yds.

Vernier at 34.

Dredge operated 31 days.

dug 663 Hrs. 50 min = 27.66 days = 89.22%

lost 80 " 10 " = 3.34 " = 10.78%

Avg. Hgt. of Bank = 2.8'

Depth = 22.5'

Total = 25.3 ft.

SURFACE: $\frac{0026}{8945}$ $\frac{2129}{1042}$ $\frac{5385}{4296}$
 $\frac{1081}{1086}$ $\frac{1086}{1089}$

= 1085 X 18.07 = 19606 sq. yds.

BEDROCK: $\frac{1142}{0126}$ $\frac{6473}{5461}$ $\frac{7487}{6473}$
 $\frac{1016}{1012}$ $\frac{1012}{1014}$

= 1014 X 18.07 = 18323

2 | 37929

Avg. Area = 18965

18965 X 25.3 / 3 = 159938 total cu. yds.

159938

31

= 5159 cu. yds. per day elapsed time

159938

27.66

= 5782 cu. yds per day running time

Pond Elev June 1st 1000.8

Claim Dredged - Anderson Conc.

Surface Area = 4.05 Acres.

Width of Cut = 240 Feet.

Length = 650

checked.

See next page

Stripping Writeoff

$\frac{1}{6}$ of present INVENTORY = 42506 cu yds.

Thawing Writeoff

$\frac{1}{6}$ of present INVENTORY = 168,838 cu yds.

Thawing Writeoff

Block # 20 Remainder

10585 sq. ft. = 11450 cu yds.

Block # 21 Remainder

63914 sq. ft. = 54764 - -

Block # 22 $\frac{2295}{416} \frac{2710}{415} = 416 \times 162.6$

= 67642 sq. ft. $\times \frac{248}{27} = 62130$ - -
Total. 128344 - -

Stripping Writeoff

29718

Line # 60

0

= 0

61

0

8.5 X 60.22

= 5512 cu yds.

62 $\frac{0510}{0493} \frac{0527}{0510} = 17$

= 41 X 60.22

2469 - -

63 $\frac{9781}{9717} \frac{9846}{9781} = 65$

56.5 X 60.22

3402

64 $\frac{5073}{5024} \frac{5121}{5073} = 48$

56 X 60.22 = 3372 cu yds.

65 $\frac{5538}{5495} \frac{5622}{5558} = 64$

Remainder

= 5872 - -

66

Remainder

= 3300 - -

67

Remainder

68

Total.

1327
20,254 - -

1" = 100'

Fac 18.07

= Sq. yds.

Vernier at 34

DREDGE N^o 4

MAY 1939

Dredge operated 31 days.

✓ dug 663 Hrs 50 min = 27.66 Days = 89.22 %
✓ lost 80 " 10 min. 3.34 " = 10.78 %

Avg. Hgt of Bank = 2.8'

✓ Depth = 22.5'

Total Depth. 25.3 Ft.

SURFACE: $\frac{5897}{1253} \frac{7149}{1252} = 1253 \times 18.07 = 22642$ Sq. yds

BEDROCK: $\frac{8366}{1183} \frac{9541}{1175} \frac{9716}{1175} = 1175 \times 18.07 = 21232$ - -
2 43874

Avg. Area. 21937 Sq. yds

$21937 \times 25.3/3 = 185002$ Cu. yds. Total

$\frac{185002}{31} = 5967$ cu. yds. per day - elapsed time

$\frac{185002}{27.66} = 6688$ cu. yds per day - running time

Pond elevation JUNE 1st. 1000.8 Ft

Claim Dredged: ANDERSON CONCS'ON

Surface Area = 4.68 Acres

Width of cut = 260 Ft

Length of cut = 725 Ft

THAWING WRITE-OFF

Unit # 19 Remainder 21009 Sq. Ft. - 23,593 Cu Yds

Unit # 22 Remainder 79,535 Sq. Ft. - 73,939 Cu Yds

Unit # 18 $\begin{array}{r} 0132 \\ 0053 \\ \hline 79 \end{array}$ $\begin{array}{r} 0212 \\ 0132 \\ \hline 80 \end{array}$ $\begin{array}{r} 0292 \\ 0212 \\ \hline 80 \end{array}$ = 80 x 162.6 = 13,008 Sq. Ft. $\frac{30.7}{27}$ = 14,791 Cu Yds

Unit # 23 $\begin{array}{r} 8623 \\ 8302 \\ \hline 321 \end{array}$ $\begin{array}{r} 8940 \\ 8623 \\ \hline 317 \end{array}$ $\begin{array}{r} 9260 \\ 8940 \\ \hline 320 \end{array}$ = 319 x 162.6 = 51,869 Sq. Ft. $\frac{29.4}{27}$ = 46,874 Cu Yds

Actual Thawing Writeoff 159,197 Cu Yds

June Thawing Write-off (M^c. Farland) 168,838 Cu Yds

STRIPPING WRITE-OFF

Line 60 94 x 60.22 5,661 Cu Yds

Line 61 $\begin{array}{r} 9769 \\ 9578 \\ \hline 186 \end{array}$ $\begin{array}{r} 0134 \\ 9946 \\ \hline 188 \end{array}$ $\begin{array}{r} 0320 \\ 0134 \\ \hline 186 \end{array}$ = 187 REMAINDER 9,367 Cu Yds

Line 62 " 8,429 Cu Yds

Line 63 " 7,228 Cu Yds

Line 64 " 5,860 Cu Yds

Line 65 Total 36,539 Cu Yds

June Stripping Write off (M^c. FARLAND) 42,506 Cu Yds

1" = 100'

Fact. 1807.

= 39 Yds.

Vernier @ 340.

DREDGE N^o 4.

June 1939.

DREDGE OPERATED. 30 DAYS.

" DUT. 465 hrs 09 min. = 19.38 days = 64.67%

" LOST. 254 hrs 51 min. = 10.62 days = 35.47%

AVG HEIGHT OF BANK. 4.8'

" DEPTH. 23.6'

TOTAL DEPTH. 28.4'

SURFACE. $\frac{0528}{9556} \frac{1294}{0528} \frac{2471}{1446} \frac{3442}{2471}$ 973 x 18.07 = 17582 Sq Yds

BEDROCK. $\frac{4573}{3559} \frac{6584}{5574} \frac{7595}{6584}$ = 1012 x 18.07 = 18287 Sq Yds
1014 1010 1011 2 135869

AVG AREA. 17,935 Sq Yds

17935 x $\frac{28.4}{3}$ = 169,785 Cu Yds.

$\frac{169,785}{30}$ = 5660 Cu Yds per day Elapsed Time.

$\frac{169,785}{19.38}$ = 8761 Cu Yds per day Digging Time.

GGF. 7/3/39.

Pond Elev July 1-39 - 1001.0

Claim Dredged - Anderson Concession

Surface Area = 3.13 Acres

Avg Width of cut = 230 Feet

Length = 700'

PSC.

THAWING WRITE-OFF

Unit #16 REMAINDER

23 773 Sq ft. 21638 Cu Yds.

" 17

"

21 818 Sq ft. 23757 Cu Yds.

" 18

"

5 560 Sq ft. 6258 Cu Yds.

" 23 $\frac{7650}{7425} \frac{7906}{7680} \frac{8197}{7906} \frac{8387}{8197} \frac{8628}{8387} = 241 \times 162.6 = 39,186 \text{ Sq ft} \times \frac{24.4}{27} = 35,413 \text{ Cu Yds}$

" 24 $\frac{9223}{8562} \frac{9881}{9223} \frac{10541}{9881} = 660 \times 162.6 = 107,316 \text{ " } \times \frac{26.5}{27} = 105,328 \text{ Cu Yds}$

" 25 $\frac{10931}{10300} \frac{11558}{10931} = 629 \times 162.6 = 102,275 \text{ " } \times \frac{28.3}{27} = 107,199 \text{ Cu Yds}$

Total 249593
301,108 Cu Yds
Daily

STRIPPING WRITE-OFF

X Line 53

198 x 60.22 = 11,924 Cu Yds

54 $\frac{8522}{8329} \frac{8719}{8522} = 198$

191 x " = 11,502 "

55 $\frac{8089}{7900} \frac{8268}{8089} = 184$

179 x " = 10,779 "

56 $\frac{9366}{9192} \frac{9540}{9366} = 174$

163 x " = 9,816 "

57 $\frac{9072}{8920} \frac{9222}{9072} = 151$

145 x " = 8,732 "

58 $\frac{9871}{9733} \frac{10012}{9871} = 139$

150 x " = 9,033 "

59 $\frac{3133}{2973} \frac{3296}{3133} = 161$

152 x " = 9,153 "

60 $\frac{3641}{3500} \frac{3788}{3641} = 144$

for 25' only (# of reading)

36 x " = 2,409
2,168

Total 73,107 Cu Yds.

1" = 100'

DREDGE N^o 4.

July 1939.

Sec. 1807

= Sq Yds

Former @ 39.0

DREDGE OPERATED - 31 days.

" DUG : 672 hrs 54 min = 28.09 days = 90.44%.

" LOST : 71 " 06 " = 2.96 " = 9.56%.

Avg height of bank. = 2.0 ft

" Depth = 24.8 ft

Total depth = 26.8 ft

SURFACE. $\frac{9749}{7983} \frac{1520}{9749} \frac{3286}{1520} = 1768 \times 18.07 = 31,948$ Sq Yds
 $\frac{1766}{1771} \frac{1771}{1766}$

BED ROCK. $\frac{5051}{3305} \frac{6793}{5051} \frac{8535}{6793} = 1743 \times 18.07 = 31,496$ Sq Yds
 $\frac{1746}{1742} \frac{1742}{1743}$

2) 63,444

Avg Area. 31,722

$\frac{10574}{31,722} \times \frac{268}{3} = 283,383$ Cu Yds

$\frac{283,383}{31} = 9,141$ Cu Yds per day Elapsed Time.

$\frac{283,383}{2809} = 10,106$ " " " Digging Time.

THAWING WRITE-OFF.

$168,838 + (Block 24) 105,328 = 274,166$ Cu. Yds.
Mc Farland.

STRIPPING WRITE-OFF.

42,506 Cu Yds
Mc Farland.

Pond Elev. Aug 1 - 993.8

Claim Dredged - Anderson Cono.

Surface Area - 6.60 Acres

Avg. Width Cut - 400 Feet

Length - 720 Feet

31426
9
283464

31948
9
28953

31726
9
281498

THAWING WRITEOFF

UNIT #	13	$\frac{2523}{2443}$ 80	$\frac{2601}{2323}$ 78	$\frac{2678}{2601}$ 77	= 78 X 162.6 = 12683 sq.ft. X $\frac{28.0}{27}$ = 13153 cu yds
15	Remainder				= 38244 - - = 33494 - -
25		$\frac{4381}{4210}$ 171	$\frac{4551}{4381}$ 170		= 171 X 162.6 = 27805 - - X $\frac{28.3}{27}$ = 29144 - -
26		$\frac{5451}{4536}$ 915	$\frac{6373}{5451}$ 922	$\frac{7294}{6373}$ 921	= 919 X 162.6 = 149429 - - X $\frac{29.9}{27}$ = 165478 - -
27		$\frac{6740}{6452}$ 288	$\frac{7025}{6740}$ 285	$\frac{7310}{7025}$ 285	= 286 X 162.6 = 46504 - - X $\frac{31.0}{27}$ = 53391 - -
					Total. 1939 294660 - -

STRIPPING WRITEOFF

LINE # 47 ($\frac{3}{10}$ Reading X 48 for 30 feet only)

$18 \quad 60.22 = 1084 \text{ cu. yds.}$

48	$\frac{5553}{5493}$ 60	$\frac{5615}{5553}$ 62	= 61	$= 146 \times 60.22 = 8792 \quad - \quad -$
49	$\frac{5139}{4908}$ 231	$\frac{5373}{5139}$ 234	$\frac{5602}{5373} = 231$	

Remainder = 12827 - -

50	Rem. $\frac{5367}{5138}$ 229	$\frac{5599}{5367}$ 232	$\frac{5825}{5599} = 229$	$230.5 \times - - = 13881 \quad - \quad -$
51	$\frac{9021}{8789}$ 232	$\frac{9491}{9261}$ 230	$\frac{9724}{9491} = 232$	

52	$\frac{8821}{8571}$ 250	$\frac{9313}{9064}$ 249	$\frac{9559}{9313} = 248$	$240.0 \times - - = 14453$ $+ 1024 + \text{balance with}$ Total turned in.
53	$\frac{0830}{0603}$ 227	$\frac{1050}{0830}$ 220	$\frac{1274}{1050} = 224$	

$236.0 \times - - = 14212$

Total. 66273 cu. yds

Scale 1" = 100'

Fac. 18.07 =

Sq. yds.
Vernier at 34

DREDGE No 4

AUGUST 1939

DREDGE operated 31 days -

dug. 685 Hrs. 57 min. = 28.58 days = 92.20 %
lost 58 - 03 - = 2.42 - = 7.80 %

Avg. Hgt of Bank = 1.7 Feet
Depth = 25.9
Total = 27.6

SURFACE:

3622	5348	7069
1892	3622	5348
1730	1726	1721

1726 x 18.07 = 31189 sq. yds.

BEDROCK:

8721	0423	2122
7014	8721	0423
1707	1702	1699

= 1702 x 18.07 = 30755
216144

Avg. Area = 30972

30972 x 27.6 / 3 = 284942 cu. yds total

284942

31 = 9192 cu. yds. per day elapsed time

284942

28.58 = 9970 running time

6415

THAWING WRITEOFF = 168838 cu. yds. + 53391 cu. yds. = 222229
W. H. S. M & F. INVENTORY. ¹⁹³⁹ _{Cal'd}

STRIPPING WRITEOFF = 42,506 cu. yds.
W. H. S. M & F. INVENTORY.

Pond Elev Sept 1st 993.4
Claim dredged - Anderson Cons.
Surface Area = 6.44 acres
Avg. Width Cut = 560 Feet
x Length = 500

31189
2
280701

30755
4
274795

30972
9
278748

162.6 = 54 ft.

Thawing Writeoff

McFarland's = 168838 Cu.Yds. + 1939 Thaw (101227 G.Y.) = 270065 Cu.Yds.

Daily's =

1939 Thaw

Block 27 $\frac{7641}{7220} \frac{8064}{7641} = 422 \times 162.6 = \frac{(Area) 68617 \times 31.0}{27} = 78782 \text{ Cu.Yds.}$

Block 28 $\frac{8164}{8064} \frac{8266}{8164} = 101 \times 162.6 = \frac{(Area) 16423 \times 36.9}{27} = 22445$
101227

Old Thaw

Block 11 $\frac{8658}{8497} \frac{8816}{8658} = 160 \times 162.6 = \frac{(Area) 26016 \times 27.6}{27} = 26594 \text{ Cu.Yds.}$

Block 12 Remainder = 94106

Block 13 Remainder = 40634
161334

Stripping Writeoff

McFarland's = 42506 Cu.Yds.

Daily's = 43

44 $\frac{3747}{3734} \frac{3764}{3747} = 15 \times 162.6 \times 27 = 452 \text{ Cu.Yds.}$
Remainder
45 $\frac{0978}{0823} \frac{0933}{0878} = 15 \times 162.6 \times 100 = 1259$
46 $\frac{9882}{9832} \frac{9929}{9882} = 50 \times 162.6 \times 100 = 3131$
47 $\frac{6968}{6827} \frac{7114}{6968} = 143 \times 162.6 \times 100 = 5841$
Remainder = 9189
48 Remainder = 3892
49 83764

Pond Filer Out = 990.2

Claims Dredged = And. Conc - 28+29 Bel Mouth Last Chance on Hunter

Surface Area = 6.96 Acres

Avg Width Cut = 400 ft.

Length = 725 ft.

DREDGE No 4

SEPTEMBER 1939

SCALE 1" = 100'

FACTOR = 18.07

= SQ. YDS

VERNIER AT 34.

DREDGE OPERATED = 30 DAYS

" DUG = 628 HRS - 48 MINS - 26.20 DAYS = 87.33%

" LOST = 91 " - 12 " = 3.80 " = 12.67%

AVE HEIGHT OF BANK = 4.2 FEET - Avg. Hgt Virgin Bank = 3.1'

" DEPTH = 28.2 " - Tailings = 15.0'

TOTAL " = 32.4 "

Virgin Area.

SURFACE -

$$\begin{array}{r} 6730 \\ 5198 \\ \hline 1532 \end{array} \quad \begin{array}{r} 8259 \\ 6730 \\ \hline 1529 \end{array} = \frac{1530}{1532} \times 18.07 = 27 \text{ Sq Yds} \quad (248823)$$

Avg Hgt Bank 3.1'

- Depth 29.2'

Total = 31.3'

BEDROCK -

$$\begin{array}{r} 9806 \\ 8271 \\ \hline 1535 \end{array} \quad \begin{array}{r} 1341 \\ 9806 \\ \hline 1535 \end{array} = \frac{1535}{1532} \times 18.07 = 27.737 \quad (249633)$$

2 (3065)

1532 x 18.07 = 27683 Sq Yds - Avg Area = 249,147 Sq Ft

$$\frac{27683 \times 31.3}{3} = 288826 \text{ Cu Yds. Virgin}$$

Tailings Area.

Surface -

$$\begin{array}{r} 5667 \\ 5328 \\ \hline 339 \end{array} \quad \begin{array}{r} 5998 \\ 5667 \\ \hline 331 \end{array} \quad 335 \times 18.07 = 6053 \text{ Sq Yds} \quad (54577)$$

Avg Hgt Bank = 15.0'

- Depth = 28.2'

Total = 43.2'

Bedrock -

$$\begin{array}{r} 6076 \\ 6039 \\ \hline 237 \end{array} \quad \begin{array}{r} 6509 \\ 6076 \\ \hline 233 \end{array} \quad \frac{235}{237} \times 18.07 = 4246 \quad (38214)$$

2 (570)

285 x 18.07 = 5150 Sq Yds. Tailings Area = 46350

$$\frac{5150 \times 43.2}{3} = 74160 \text{ Cu Yds Tailings}$$

Total Area.

Virgin

27683 Sq Yds

Tailings

$$\begin{array}{r} 5150 \\ \hline 32833 \end{array}$$
Total Cu Yds.

288826

74160

362986

Avg total

Depth = 33.0 Feet

$$\frac{362986}{30} = 12100 \text{ Cu Yds per day elapsed time}$$

$$\frac{362986}{26.20} = 13854 \text{ - - - digging time.}$$

162.6 = Sq.Ft.

Thawing Writeoff

$$\begin{aligned} \text{McFarland's} &= 168839 \text{ Cu.Yds} + 1939 \text{ Thaw (157760 Cu.Yds)} \\ &= 326599 \text{ Cu.Yds.} \end{aligned}$$

(Remainder Block 27 = 51744 Cu.Yds
28 = 106016 - - -)

Total 157760 -

$$\begin{aligned} \text{Daily's} &= \text{Remainder Block 11} = 3610 \text{ Cu.Yds} \\ &\quad 14 = 23960 \quad - - \quad \left. \begin{array}{l} \\ \end{array} \right\} 1938 \text{ Thaw} \\ &\quad 27 = 51744 \quad - - \quad \left. \begin{array}{l} \\ \end{array} \right\} 1939 \text{ Thaw} \\ &\quad 28 = 106016 \quad - - \\ \text{Total} &= 185330 \text{ Cu.Yds.} \end{aligned}$$

Stripping Writeoff (as dredged)

$$\begin{aligned} \text{Between 43-44 - Remainder} &= 1353 \text{ Cu.Yds.} \\ \checkmark \quad 44-45 &= - \\ \checkmark \quad 45-46 &= 692 \text{ - - } \\ - \quad 46-47 &= 5268 \text{ - - } \\ \text{Total} &= 7313 \text{ - - } \end{aligned}$$

$$\text{McFarland's Stripping Writeoff} = 42508 \text{ Cu.Yds.}$$

DREDGE No. 4

OCTOBER 1939

SCALE 1" = 100'

FACTOR = 18.07

= 50 YDS.

VERNIER AT 34

DREDGE OPERATED 31 DAYS

" DUG 606 HRS 10 MIN. = 25.26 DAYS = 81.47%

" LOST 137 HRS 50 MIN. = 5.74 DAYS = 18.53%

AVERAGE HEIGHT OF BANK = 9.1 FT. ✓

AVERAGE DEPTH = 30.8 FT. ✓

TOTAL = 39.9 FT. ✓

SURFACE

1251	2387	3516
0119	1251	2387
1132	1136	1123

1132 (18.07) = 20455 SQ YDS.

BED ROCK

4786	6027	7275
5542	4786	6027
1244	1241	1248

1244 (18.07) = 22479 " "

AVE AREA = 21467 " "

$$\frac{21467 \times 39.9}{3} = 285511 \text{ CUB YDS}$$

$$\frac{285511}{31} = 9210 \text{ CUB YDS ELAPSED TIME}$$

$$\frac{285511}{25.26} = 11302 \text{ " " DIGGING TIME}$$

POND ELEVATION = 989.2

CLAIMS DREDGED = 28-29 Bel. Mouth Last Chance on Hunter + And. Conc.

SURFACE AREA = 4.44 ACRES

AVE WIDTH OF CUT = 300 FT.

" LENGTH " " = 550 ✓

$$\begin{array}{r} 20455 \\ 9 \ 4 \\ \hline 184095 \end{array}$$

$$\begin{array}{r} 22479 \\ 9 \\ \hline 202311 \end{array}$$

$$\begin{array}{r} 21467 \\ 2 \\ \hline 193203 \end{array}$$

162.6 SQFT

THAWING WRITEOFF

1939 THAW

DAILYS. — ALL BLOCK 29 = $25371 \text{ SQFT} \times \frac{38.1}{27} = 35801 \text{ CUB YDS}$

No Stripping Writeoff

Dredge - Cyls dredged in Cono. 1939

Sept $\begin{array}{r} 6958 \\ 6473 \\ \hline 485 \end{array}$ $\begin{array}{r} 7444 \\ 6904 \\ \hline 486 \end{array}$ $\begin{array}{r} 162 \\ 486 \times 18.07 \times \frac{31.3}{2} = 91615 \text{ Cy.} \end{array}$

Oct. $\begin{array}{r} 9848 \\ 9713 \\ \hline 135 \end{array}$ $\begin{array}{r} 9985 \\ 9848 \\ \hline 137 \end{array}$ $\begin{array}{r} 13.3 \\ 136 \times 18.07 \times \frac{39.9}{2} = 32640 \end{array}$

Nov $\begin{array}{r} 0319 \\ 927 \\ \hline 644 \end{array}$ $\begin{array}{r} 0915 \\ 0319 \\ \hline 646 \end{array}$ $\begin{array}{r} 2.5 \\ 645 \times 18.07 \times \frac{39.4}{2} = 153080 \end{array}$

Apr 13998

May 18500

June 169785

July 283383

Aug 284.942

Sept 91615

Oct 32640

Nov 153080

Dec 33813

1,248,258 Total Cyls. ~~463,739~~ in Cono

463,739 in Avg 29
1711997

Dr started in Cono.

Left Sept 7 - out completely

Back in again Oct 20

Completely in again Nov 7

DREDGE No 4

NOVEMBER 1939

SCALE - 1" = 100'

FACTOR - 18.07

= 59 YDS.

VERNIER AT 34

DREDGE OPERATED 30 DAYS

" DUG = 659 HRS - 20 MINS = 27.47 DAYS = 91.57 %

" LOST = 60 " - 40 " = 2.53 " = 8.43 %

AVE HEIGHT OF BANK = 11.7 FEET

" DEPTH = 27.7 "

TOTAL " 39.4 "

SURFACE - $\begin{array}{r} 5065 \\ 4240 \\ \hline 825 \end{array}$ $\begin{array}{r} 5896 \\ 5065 \\ \hline 831 \end{array}$ $\begin{array}{r} 6727 \\ 5896 \\ \hline 831 \end{array}$ $\begin{array}{r} 7559 \\ 6727 \\ \hline 832 \end{array}$ = $831 \times 18.07 = 15016$ sq. yds

BEDROCK - $\begin{array}{r} 9142 \\ 8328 \\ \hline 814 \end{array}$ $\begin{array}{r} 9969 \\ 9142 \\ \hline 827 \end{array}$ $\begin{array}{r} 0795 \\ 9969 \\ \hline 826 \end{array}$ $\begin{array}{r} 1624 \\ 0795 \\ \hline 829 \end{array}$ = $827 \times 18.07 = 14944$ ✓
 $2 \overline{) 29960}$ ✓
 Avg. Area. 14980 ✓
 = 134820 SQ. FT.

 $14980 \times \frac{39.4}{3} = 196737$ cu. yds.

 $\frac{196737}{30} = 6558$ cu. yds. per day elapsed time ✓

 $\frac{196737}{27.47} = 7162$ cu. yds. ✓ running time ✓

POND ELEV = 989.0

CLAIMS DREDGED - 28229 BELOW MOUTH OF LAST CHANCE ON HUNKERT Anderson Concession

SURFACE AREA = 3.1 ACRES

AVE WIDTH OF CUT = 410 FEET

" LENGTH OF CUT = 340 FEET

162.6 - SQ FT.

NOTE :

NO THAWING WRITE OFF.

NO STRIPPING WRITE OFF.

SCALE 1" = 100'
FACTOR - 18.07
SQ YDS
VERNIER AT 34

DREDGE No 4
DREDGE CLOSED DOWN FOR SEASON 7.45 A.M. DEC. 8th

DECEMBER 1939

DREDGE OPERATED 7 DAYS.

DREDGE DUG - 148^{HRS} - 15 MINS - 6.18 DAYS = 88.24 %
" LOST 19 HRS - 45 MINS - 0.82 " = 11.76 %

AVE HEIGHT OF BANK - 16.3

" DEPTH " " = 25.6

TOTAL " = 41.9

SURFACE $\frac{1820}{134} \frac{1954}{134} = 134 \times 18.07 = 2421$ sq. yds.

BED ROCK $\frac{2062}{134} \frac{2197}{133} = 134 \times 18.07 = 2421$

2 | 4842 |

Avg. Area. 2421

21789 SQ FT

$2421 \times \frac{41.9}{3} = 33813$ cu. yds Total.

$\frac{33813}{7} = 4830$ cu. yds. per day elapsed time

$\frac{33813}{6.18} = 5471$ cu. yds. digging time

Pond elev. = 988.5 Feet
Claims dredged. Anderson Concession
Surface Area. : 0.50 Acres ✓
Avg. width of cut. 250 Feet
length of cut. 100 ✓

THAWING WRITEOFF

BLOCK # 26

4257	4291	4306
<u>4242</u>	<u>4275</u>	<u>4291</u>
15	16	15

$15 = 15 \times 162.6 = 2439 \checkmark \text{ Sq. Ft.}$

$2439 \times 299/27 = 2701 \checkmark \text{ cu. yds.}$

✓ NO STRIPPING WRITEOFF

Scale 1" = 100'
 Fac. 18.07 -
 Sq. yds.
 Vernier at 34.

DREDGE No 4

APRIL 1940

STARTED APR 29th - 855 A.M.

LOST TIME SUMMARY APR 29th - 7 A.M.

DREDGE operated 2 Days.

dug 43 Hrs. 42 min. = 1.82 days = 91.04 %

lost 4 " 18 " = 0.18 " = 8.96 %

Avg. Height of Bank = 15.5 Feet

Depth = 27.5

Total = 43.0

SURFACE: 0356 0413
 0300 0356
 56 57

= 57 x 18.07 = 1030 sq. yds.

BEDROCK: 0525 0588 0707

0461 0525 0645
 64 63 62

= 62 x 18.07 = 1120

Avg Area. $\frac{2150}{1075}$

1075 x 43/3 = 15408 cu. yds.

$\frac{15408}{2}$ = 7704 cu. yds per day elapsed time

$\frac{15408}{1.82}$ = 8466 running time

Pond Elevation -

Claims dredged - Anderson Conc.

Surface Area - 0.21 acres.

Avg Width of cut - 100 Ft.

Length - 90 -

Thawing Writeoff

Block 26 - Remainder = 14506 Sq Ft = 16126 CY.
" W - " = 46860 " - 48461 ✓
Total Writeoff = 64587 ✓

Stripping Writeoff

X Sec. 49-50 Remainder = 0 CY.
" 50-51 " = 704 ✓
" 51-52 " = 1840 ✓
" 52-53 " = 3120 ✓
" 53-54 " = 4596 ✓
" 54-55 1/2 " = 2500 ✓
Total Writeoff 12560 ✓

Scale 1" = 100'
 Fac: 18.07 -
 34 Yds
 Vanier at 34.00.

DREDGE N^o 4

MAY - 1940.

DREDGE OPERATED 31 days.

DREDGE DUG 671 hrs 22 min = 2797 days = 90.24 %
 " LOST 72 " 38 " = 3.03 " = 9.76 %

AVG. HGT. OF BANK = 12.7 ft
 " DEPTH = 21.4 "
 TOTAL = 34.1 "

SURFACE.

6455 7467 8479
 5448 6455 7467
 1007 1012 1012

1012 x 18.07 = 18287 Sq Yds

Bedrock

9502 0505
 8497 9502
 1005 1003

1004 x 18.07 = 18142
 2 | 36429

Avg Area = 18214

(123926)

18214 x 34.1 / 3 = 207032 Cu Yds.

207032 / 31 = 6678 Cu Yds. per day elapsed time

207032 / 27.97 = 7402 - - - running -

Pond Elev - 993.1
 Claims dredged - And. Conc.
 Surface area - 3.78 Acres
 Avg Width Cut - 300'
 Length - 525'

Thawing Writeoff

Block 23-	Remainder	=	33762	Cu.Yds	
" 24-	"	=	50771	"	"
" 30-	All	=	38707	"	"
		Total =	123240		"

Stripping Writeoff

54-55	-	Remainder	=	2300	Cu.Yds
55-56	-	"	=	4731	"
56-57	-	"	=	2462	"
57-58	-	"	=	1713	"
58-59	-	"	=	1705	"
60-61	-	"	=	2317	"
		Total	=	15228	"

Scale 1" = 100'

Foc 18.07 = sq. yds.

Vernier @ 34.00

DREDGE N° 4

JUNE - 1940.

DREDGE OPERATED 30 days

DREDGE DUG - 603 hrs. 22 min = 25.14 days = 83.80%

" LOST - 116 hrs 38 min = 4.86 " = 16.20%

AVG HEIGHT OF BANK = 10.6 Ft.

AV DEPTH " " = 19.4 "

TOTAL DEPTH 30.0 "

SURFACE $\frac{8205}{1155} \frac{9368}{1163} \frac{0532}{1164} \frac{1689}{1157} = 1160 \times 18.07 = 20,961 \text{ sq. yds.}$

BED ROCK $\frac{2830}{1160} \frac{3994}{1164} \frac{5157}{1163} = 1162 \times 18.07 = 20,997 \text{ sq. yds.}$
2141958

AV AREA 20,979 sq. yds.
(188811)

$20,979 \times \frac{30.0}{3} = 209,790 \text{ cu yds}$

$\frac{209,790}{30} = 6993 \text{ cu yds per day elapsed time}$

$\frac{209,790}{25.14} = 8345 \text{ " " " " running time}$

Perd Elev - 993.0

Claims dredged - Anderson Conc.

Surface Area - 4.33 Acres

Avg Width Cut - 300 Ft

length - 615 "

Scale 1" = 100'
 Fac = 18.07 = Sq Yds
 Vernier at 34

Dredge No. 4

July 1940

Finished on Hunker

Dredge operated 10 days

- dug 18 hrs 25 min = 7.56 days = 76.59 %
 - lost 58' 35' = 2.44' = 24.41 %

Avg Hgt Bank = 14.8 Ft.

- Depth = 11.0'
 Total = 25.8'

Surface	$\begin{array}{r} 6640 \\ 6130 \\ \hline 110 \end{array}$	$\begin{array}{r} 6757 \\ 6640 \\ \hline 117 \end{array}$	$\begin{array}{r} 6870 \\ 6757 \\ \hline 113 \end{array}$
Bedrock	$\begin{array}{r} 6950 \\ 6848 \\ \hline 102 \end{array}$	$\begin{array}{r} 7058 \\ 6950 \\ \hline 108 \end{array}$	$\begin{array}{r} 7164 \\ 7058 \\ \hline 106 \end{array}$

113 x 18.07 = 2042 Sq. Yds

106 x 18.07 = 1915
 3957

Avg Area = 2003

$\begin{array}{r} 1979 \\ 2003 \times 25.8 \\ \hline 3 \end{array} = 17019$
 + 15387
 = 32406

Cu yds.

Tails

Total

$\frac{32406}{10} = 3241$ Cu yds per day elapsed time

$\frac{32406}{7.56} = 4286$ running

sq ft

Tailings area = 5403, at end of cut
 + 18750 re-dug after turning around
 = 23953 Sq Ft.

Total area for July

$\begin{array}{r} 1979 \\ 2003 \times 9 \\ \hline 18027 \end{array} + 23953$

= 41980 Sq Ft.
 41764

Pond Elev

Claims dredged 96 And Conc.

Surface area - 0.46 Acres

Avg Width cut - 340'

length - 50'

T.T.T.

$\begin{array}{r} 2042 \\ 18378 \end{array} \quad \begin{array}{r} 1915 \\ 17235 \end{array}$

Thawing Writeoff

$$\text{Block 2} - \frac{8271}{8014} \frac{8274}{8271} \frac{257}{253}$$

$$255 \times 158.1 = 40315 \times \frac{32.3}{27} =$$

1941 Thaw

48229 Cuyds

Scale 1" = 100'

Yankee @ 34.00.

Factor 17.57 - Sq Yds.

DREDGE NO. 4 - On Bonanza

SEPTEMBER 1941.

Started to operate Sept 18 - 4:40 pm

Reached B.R. Sept 19 - 4:00 pm.

DREDGE OPERATED. = 13 days.

" Dug = 274 hrs 13 min = 11.43 days = 87.89 %.

" Lost = 37 " 47 " = 1.57 " = 12.11 %.

AVG HGT OF BANK = 6.9 ft.

" DEPTH = 23.6 "

TOTAL DEPTH = 30.5 "

SURFACE. $\frac{1274}{583} \quad \frac{1854}{580} = 582 \times 17.57 \text{ Sq Yds} = 10,226 \checkmark \text{ Sq Yds.}$

BED ROCK $\frac{2370}{537} \quad \frac{2909}{539} = 538 \times 17.57 \text{ Sq Yds} = 9,452 \checkmark \text{ Sq Yds.}$

2) 19,678

AVG AREA. 9 839 $\checkmark$ Sq Yds.

$9839 \times \frac{30.5}{3} = 100,030 \checkmark \text{ Cu Yds.}$

$\frac{100,030}{13} = 7695 \checkmark \text{ Cu Yds Per Day Elapsed Time.}$

$\frac{100,030}{11.43} = 8752 \checkmark \text{ Cu Yds Per Day Digging Time.}$

Pond Elev - 1215.1

Claims dredged - B.R. Conc.

Surface Area - 2.11 Acres

Avg Width Cut - 240 Ft

Length - 400'

$\begin{array}{r} 10226 \\ 9 \\ \hline 92034 \end{array} \quad \begin{array}{r} 9452 \\ 9 \\ \hline 85068 \end{array} \quad \begin{array}{r} 9839 \\ 9 \\ \hline 88551 \end{array}$

THAWING WRITE OFF

Fac. 158.1 - 39 ft.

$$\begin{array}{l}
 \text{UNIT N}^{\circ} 1: \begin{array}{r} 7329 \\ 6935 \\ \hline 394 \end{array} \quad \begin{array}{r} 7719 \\ 7324 \\ \hline 395 \end{array} \quad \begin{array}{r} 8115 \\ 7719 \\ \hline 396 \end{array} = 395 \times 158.1 = 62450 \times \frac{32}{27} = 74246 \\
 \text{N}^{\circ} 2: \begin{array}{r} 8147 \\ 8082 \\ \hline 65 \end{array} \quad \begin{array}{r} 8211 \\ 8147 \\ \hline 64 \end{array} = 65 \times 158.1 = 10277 \times \frac{32}{27} = 12294 \\
 \text{TOTAL } 86540
 \end{array}$$

1941 than

Scale 1" = 100'
Fac. 17.57 - sq. yds.
Vernier @ .34

DREDGE N^o 4

OCTOBER 1941

DREDGE OPERATED 31 Days.

DUG 549 Hrs. 04 Min. = 22.88 Days = 73.80 %
LOST 194 " 56 " = 8.12 " = 26.20 %

AVG. HEIGHT of BANK: 11.9 FEET

DEPTH : 20.7

TOTAL : 32.6

SURFACE $\frac{7640}{6708}$ $\frac{8569}{7640}$ $\frac{9502}{8569}$ $931 \times 17.57 = 16358$ sq. yds

BEDROCK $\frac{0298}{9429}$ $\frac{1166}{0298}$ $\frac{2030}{1166}$ $868 \times 17.57 = 15251$

2 | 31609

Avg. Area = 15805

$15805 \times \frac{32.6}{3} = 171748$ Cu. Yds. TOTAL.

171748

31 = 5540 Cu. Yds. per day. Elapsed Time

171748 = 7506 - - - Running Time.
22.88

Claims dredged - B. & R. Conc.

Surface Area - 3.38 Acres

Avg Width Cut - 460 Ft.

Length - 570

16358	15251	15805
9	9	9
147222	137259	142245

NO THAWING WRITE-OFF.

DREDGE N^o 4

NOVEMBER 1941.

DREDGE OPERATED = 1 day.

" DUG = 22 hrs. 50 min. = 0.95 days = 95.14%

" LOST = 1 hr 10 min. = 0.05 " = 4.86%

AVG HGT OF BANK = 15.0' FL.

" DEPTH = 17.0 "

TOTAL " = 32.0 "

$$\text{Area} = \frac{\sqrt{5000 \times 27}}{32} = 48.19 \text{ Sq Ft}$$

TOTAL Cu Yds = 5000 Cu Yds.

$$\frac{5000}{1} = 5000 \text{ Cu Yds Per Day Elapsed Time}$$

$$\frac{5000}{0.95} = 5263. \text{ Cu Yds Per Day Digging Time}$$

Claims dredged - B & R Conc.

Surface area = —

Avg Width Cut = —

Length = —

Dredge shut down Nov 2 - 7:40 a.m.

Lost Time Nov 2 - 7:00 a.m.

48.19

48.40

$$\begin{array}{r} 48.40 \\ 9 \\ \hline 435.60 \\ 9 \end{array}$$

THAWING WRITE OFF

FACTOR = 158.1 = Sq. Ft.

$$\text{UNIT N}^\circ 1 = \frac{\begin{array}{r} 9381 \\ 8945 \\ \hline 436 \end{array}}{\begin{array}{r} 9817 \\ 9381 \\ \hline 436 \end{array}} = 136 \times 158.1 = 68932 \times \frac{32.1}{27} = 81952 \text{ CU. YDS}$$

WRITE OFF = 81952

Scale 1" = 100'
 Fac. 17.57
 = Sq. Yds.

DREDGE No. 4

MAY 1942
 Started operating May 1st - 11:00 A.M.
 Lost time starts May 1st - 7:00 A.M.

Dredge operated 31 days.

dug. 680 Hrs 41 min. = 28.36 Days = 91.49 %
 lost. 63 " 19 " = 2.64 " = 8.51 %

Avg. Height of Bank 11.9 Feet -

Depth 22.6 "
 Total 34.5 "

Surface: $\frac{6341}{5453} \frac{7233}{6341} = 890 \times 17.57 = 15637$ Sq Yds
 $\frac{888}{892}$

Bedrock: $\frac{8053}{7222} \frac{8885}{8053} = 832 \times 17.57 = 14618$ Sq Yds
 $\frac{831}{832}$ 2 | 30255

Ave Area = 15128 Sq Yds.

15128 $\times \frac{115}{34.5} = 173972$ TOTAL CU. YDS

$\frac{173972}{31} = 5612$ CU. YDS ELAPSED TIME

$\frac{173972}{28.36} = 6134$ RUNNING TIME

POND ELEV = 1224.4 -

CLAIMS DREDGED = BRONSON & RAY CONCESSION -

SURFACE AREA = 3.23 ACRES -

AV. WIDTH OF CUT = 300 FT -

LENGTH = 475 FT -

J.C.C.

$\frac{15637}{9} \quad \frac{14618}{9} \quad \frac{15128}{9}$
 140733 13156 13615

THAWING WRITE OFF

$$\begin{array}{lcl}
 \text{UNIT } 1 - \text{REMAINDER} = & & = 113131 \text{ CU. YDS} \\
 \checkmark \quad 2 - \frac{8370}{8270} \frac{8169}{8370} = 100 \times 158.1 \times \frac{323}{27} = 18912 \quad \checkmark \checkmark \\
 \checkmark \quad 3 - \frac{8256}{7886} \frac{8626}{8256} = 370 \times 158.1 \times \frac{341}{27} = 73873 \quad \checkmark \checkmark
 \end{array}$$

$$\text{TOTAL WRITE OFF} = 205916 \quad \checkmark \checkmark \checkmark$$

SCALE = 1" = 100'

DREDGE N^o 4

JUNE 1942

FACTOR = 17.57 =

Sq Yds

Dredge operated 30 Days - 28 Days for depth
dug. 585 Hrs. 48 min. = 24.41 Days = 81.36 %
lost 134 - 12 - 5.59 = 18.64 %

Avg. Height of Bank = 10.4 Feet
- Depth = 22.8 -
Total = 33.2 -

Surface

3864
2743
1121

4979
3864
1115

6096
4979
1117

= 1118 x 17.57 = 19643 Sq Yds

Bedrock

7282
6202
1080

8355
7282
1073

9428
8355
1073

= 1075 x 17.57 = 18888 Sq Yds

TOTAL AV. AREA =

2 | 38531
19266 Sq Yds

⁶⁴²²
19266 x 33.2 = 213210 TOTAL CU. YDS

213210 = 7107 CU. YDS PER DAY ELAPSED TIME
30

213210 = 8735 DIGGING
24.41

POND ELEVATION = 1217.8

CLAIMS DREDGED = BRONSON & RAY CONCESSION

SURFACE AREA = 4.06 ACRES

AV WIDTH OF CUT = 380'

✓ LENGTH ✓ ✓ = 420'

19643
9

18888
9

19266
9

176787

169992

173394

55058
18912
36146

107638
73873
33765

Thawing Write off.

Unit # 2 Remainder = 36146 Cu.Yds

Unit # 3 - 33765 ✓ ✓

TOTAL WRITE OFF = 69911 Cu.Yds.

SCALE 1"=100'
FACTOR - 17.57 =
50 Yds

DREDGE NO 4

JULY 1942

DREDGE OPERATED 31 DAYS

✓ DUG - 664 HRS - 33 MINS = 27.69 DAYS = 89.32 %

✓ LOST 79 ✓ - 27 ✓ = 3.31 ✓ = 10.68 %

Ave-HEIGHT OF BANK = 9.8 FT

✓ DEPTH - - - = 21.3 ✓

TOTAL ✓ = 31.1 ✓

SURFACE = $\frac{5484}{4181} \frac{6782}{5484} \frac{8083}{6782} = 1301 \times 17.57 = 22859 \text{ Sq Yds}$

BED ROCK = $\frac{9414}{8139} \frac{0686}{9414} = 1274 \times 17.57 = 22384$

2/45243

Ave AREA = 22621 ✓ ✓

$22621 \times \frac{31.1}{3} = 234,504 \text{ Cu. Yds.}$

$\frac{234504}{31} = 7,565 \text{ Cu. Yds PER DAY ELAPSED TIME}$

$\frac{234504}{27.69} = 8,469 \text{ } \checkmark \checkmark \checkmark \checkmark \text{ DIGGING } \checkmark$

POND ELEVATION 1212.9

CLAIMS DREDGED - BRONSON & RAY CONCESSION

AV. WIDTH OF CUT = 400 FT

✓ LENGTH ✓ ✓ = 400 ✓

SURFACE AREA - 4.67 ACRES 4.7 ✓

22859

9

205731

22384

9

201456

22621

9

203589

1942 THAW.

THAWING WRITEOFF

LIMIT # 4

$$\begin{array}{r} 7911 \\ 7732 \\ \hline 179 \end{array} \quad \begin{array}{r} 7732 \\ 7548 \\ \hline 184 \end{array}$$

$$= 182 \times 158.1 \times \frac{31.6}{27} = 33676 \text{ cu. yds.}$$

LIMIT # 5

$$\begin{array}{r} 7552 \\ 7319 \\ \hline 233 \end{array} \quad \begin{array}{r} 7789 \\ 7552 \\ \hline 237 \end{array}$$

$$= 235 \times 158.1 \times \frac{31.4}{27} = 43209 \text{ - -}$$

LIMIT # 6

$$\begin{array}{r} 6868 \\ 6800 \\ \hline 68 \end{array} \quad \begin{array}{r} 6932 \\ 6868 \\ \hline 64 \end{array}$$

$$= 66 \times 158.1 \times \frac{32.4}{27} = 12522 \text{ - -}$$

Total
89,407 cu. yds

SCALE = 1" = 100'

FACTOR 17.57 = SQ YDS

VERNIER AT 34

DREDGE NO 4

AUGUST 1942

DREDGE OPERATED 31 DAYS

✓ DUG 674 Hrs - 54 Mins = 28.12 DAYS = 90.71%

✓ LOST 69 ✓ - 06 ✓ = 2.88 ✓ = 9.29%

AVE HEIGHT OF BANK = 8.1 FT.

✓ DEPTH = 24.1

TOTAL DEPTH = 32.2

SURFACE - $\frac{6190}{4707} \frac{7687}{6190} \frac{9172}{7687} \frac{0666}{9172} \frac{2152}{0666}$
 $\frac{1483}{1497} \frac{1485}{1494} \frac{1496}{1496} = 1489 \times 17.57 = 26162$ Sq. yds

BEDROCK - $\frac{3518}{2125} \frac{4898}{3518} \frac{6288}{4898} \frac{7673}{6288}$
 $\frac{1393}{1380} \frac{1380}{1390} \frac{1385}{1385} = 1387 \times 17.57 = 24370$
2 | 50532
Avg. Area. 25266

25266 x $\frac{32.2}{3} = 271188$ cu yds. Total.

$\frac{271188}{31} = 8748$ cu yds. per day elapsed time

$\frac{271188}{28.12} = 9644$ - - - - running time

POND ELEVATION = 1204.2

CLAIMS DREDGED - BRONSON & RAY CONCESSION

SURFACE AREA = 5.41 ACRES

AVE WIDTH OF CUT = 450 FT.

✓ LENGTH ✓ - 730 ✓

✓ 616 ✓

9

✓ 35458

✓ 4370

9

✓ 19330

✓ 2266

9

✓ 27394

THAWING WRITEOFF

UNIT # 6

1820	2070	2330	2585
1563	1880	2070	2330
257	250	260	255

257 X 158.1 X $\frac{32.4}{27}$ = 48758 Cu. Yds

1942 THAW WRITE OFF = 48758 Cu Yds.

Scale 1" = 100'

Fac. 17.57 - Sq. yds.

Vermier at 34

DREDGE N^o 4

SEPTEMBER 1942

DREDGE OPERATED 30 Days.

DUG : 668 Hrs. 01 min. = 27.83 days = 92.78 %

LOST : 51 " 59 " = 2.17 " = 7.22 %

AVG. HEIGHT OF BANK = 4.6 Feet

DEPTH = 26.1

TOTAL = 30.7

SURFACE

1139 2667
9614 1139

BEDROCK

1525 1528
4179 5622
2738 4179
1441 1443

= 1527 X 17.57 = 26829 Sq. yds.

= 1442 X 17.57 = 25336

2 152165

26083

26083 X 30.7/3 = 266,916 cu. yds. Total

266916
30 = 8897 Cu. yds. per day elapsed time

266916
27.83 = 9591 running time

POND ELEVATION = 1199.8

CLAIMS DREDGED - BRONSON & RAY

SURFACE AREA = 5.54 ACRES

AV. WIDTH OF CUT = 325 FT

LENGTH = 750

380
274
65

26829 25336 26083
9 9 9
241461 228024 234747

No Writeoff for October

SCALE 1" = 100'
FACTOR 17.57 = 84705
VERNIER @ 34

DREDGE N° 4

OCTOBER 1942

DREDGE OPERATED - 31 DAYS

✓ DUG = 689 Hrs 0 Mins = 28.71 Days = 92.61 %
✓ LOST = 55 ✓ ✓ ✓ = 2.29 ✓ = 7.39 %

AVE HEIGHT OF BANK = 4.5 FT
✓ DEPTH = 31.6 ✓
TOTAL ✓ = 36.1 ✓

SURFACE — $\frac{8735}{6904} \frac{0564}{8235} = 1830 \times 17.57 = 32153 \text{ SQ YDS}$
 $\frac{1831}{1829}$

BED ROCK — $\frac{2270}{0571} \frac{3970}{2270} = 1700 \times 17.57 = 29869 \text{ SQ. YDS.}$
 $\frac{1699}{1700}$ 2 | 62022

AVE AREA = 31011 SQ YDS

$\frac{1}{31} \frac{0337}{31011} \times \frac{36.1}{2} = 373166 \text{ TOTAL CU YDS}$

$\frac{373166}{31} = 12038 \text{ CU. YDS PER DAY ELAPSED TIME}$

$\frac{373166}{28.71} = 12998 \text{ ✓ ✓ ✓ ✓ DIGGING ✓}$

POND ELEVATION = 1197.4'
CLAIMS DREDGED = BRONSON & RAY ✓
SURFACE AREA = 6.64 ACRES. ✓
AVE WIDTH OF CUT = 410 FT ✓
✓ LENGTH OF ✓ = 710 FT. ✓

$\frac{32153}{9}$	$\frac{29869}{9}$	$\frac{31011}{9}$
489377	468871	279099

No Write off for November

Scale 1" = 100'
 Fac. = 17.57
 = 59 Yds.

Dredge No. 4

November 1942

Dredge shut down for season Nov 28 - 4:00 p.m.
 For Lost Time Summary Nov. 28 - 7:00 A.M.

Dredge operated 27 days.

Aug 514 hrs 25 min = 21.43 days = 79.39 %

lost 133 - 35 = 5.57 = 30.61 %

Avg. Hot Bank = 1.4 Ft.

Depth = 37.6

Total = 39.0

Surface: - $\begin{array}{r} 3175 \\ 1724 \\ \hline 1451 \end{array}$ $\begin{array}{r} 4644 \\ 3175 \\ \hline 1469 \end{array}$ $\begin{array}{r} 6098 \\ 4644 \\ \hline 1454 \end{array}$

$1453 \times 17.57 = 25529$ Sq. Yds.

Bedrock: - $\begin{array}{r} 7463 \\ 6090 \\ \hline 1373 \end{array}$ $\begin{array}{r} 8833 \\ 7463 \\ \hline 1370 \end{array}$

$1372 \times 17.57 = 24106$

$2 \overline{) 49635}$

Avg Area = 24818

$24818 \times \frac{13.0}{3} = 322634$ Cu. Yds.

$\frac{322634}{27} = 11949$ Cu. Yds. per day elapsed time.

$\frac{322634}{21.43} = 15055$ - - - - - running

Pond Elev. - 1197.2
 Claims dredged - B & R Conc.
 Surface Area - 5.27 Acres.
 Avg Width Cut - 430 Ft.
 Avg. Length Cut - 460 Ft.

GGF

$\begin{array}{r} 25529 \\ 9 \\ \hline 279761 \end{array}$ $\begin{array}{r} 24106 \\ 9 \\ \hline 26954 \end{array}$ $\begin{array}{r} 24818 \\ 9 \\ \hline 273362 \end{array}$

No Writeoff for May ✓

Dredge No. 4

May 1943

Started operating May 4 - 9:15 p.m.

Lost Time starts May 4 - 7:00 Am

Dredge operated 28 days.

- dug 603 hrs. 43 min. = 25.15 days = 89.84 %

- lost 68 - 17 = 2.85 = 10.16 %

Avg. Hgt. of Bank = 5.4 Ft. 5.4

- Depth = 35.3 - 38.3 = corrected depth

Total = 40.7 - 43.7

Surface - $\frac{8017}{1402} \quad \frac{9418}{1401} \quad \frac{2212}{1402} \quad 1402 (17.57) = 24633 \text{ sq. yds.}$

Bedrock $\frac{3578}{1378} \quad \frac{4949}{1371} \quad \frac{6333}{1384} \quad 1378 (17.57) = 24211 - -$

$\frac{7705}{1372} \quad \frac{9083}{1378} \quad \frac{7705}{1378} \quad 248844$
Avg. area = 24422 sq. yds.

$\frac{24422 (43.7)}{3} = 355,747 \text{ cu. yds}$

$\frac{355747}{28} = 12,705 \text{ cu. yds per day elapsed time}$

$\frac{355747}{25.15} = 14,145 \text{ cu. yds. per day running time}$

Pond elev. = 1196.1

Claims dredged = B. & R. Conc. 75-76A-76-76A Bal. Bon.

Surface area = 5.09 acres

Avg. width cut = 230 ft.

Avg. length = 950 ft.

$\frac{24633}{9} \quad \frac{24211}{9} \quad \frac{24422}{9}$
221697 217899 219798

No Thawing Writen for June

SCALE 1" = 100'

FACTOR - 17.57 = Sq Yds

VERNIER @ 34

DREDGE NO. 4

JUNE 1943

DREDGE OPERATED 30 DAYS

✓ DUG 620 HRS 35 MINS = 25.86 DAYS = 86.19 %

✓ LOST 99 ✓ 25 ✓ = 4.14 ✓ = 13.81 %

AVE HEIGHT OF BANK = 5.3 FT

✓ DEPTH = 31.1 ✓

TOTAL ✓ = 36.4 ✓

SURFACE - $\begin{array}{r} 5956 \\ 4345 \\ \hline 1611 \end{array}$ $\begin{array}{r} 7579 \\ 5956 \\ \hline 1623 \end{array}$ $\begin{array}{r} 9196 \\ 7579 \\ \hline 1617 \end{array}$

BED ROCK - $\begin{array}{r} 0751 \\ 9162 \\ \hline 1589 \end{array}$ $\begin{array}{r} 2348 \\ 0751 \\ \hline 1597 \end{array}$ $\begin{array}{r} 3939 \\ 2348 \\ \hline 1591 \end{array}$

$\begin{array}{r} 5535 \\ 3939 \\ \hline 1596 \end{array}$ ✓

$(1617)(17.57) = 28411$ sq. yds. ✓

$(1594)(17.57) = 28007$ ✓ ✓ ✓

Arg. Area $\begin{array}{r} 28411 \\ 28007 \\ \hline 28209 \end{array}$ sq. yds. ✓

$\begin{array}{r} 9403 \\ 28209(36.4) \\ \hline 3 \end{array}$ = 342,269 cu. yds. ✓

$\frac{342269}{30} = 11409$ cu. yds. per day elapsed time ✓

$\frac{342269}{25.86} = 13235$ cu. yds. per day running time ✓

POND ELEV = 1194.5

CLAIMS DREDGED = B&R CONC. - 75-75A-76-76A BELOW OR BENE.

SURFACE AREA = 5.87 ACRES.

AV. WIDTH OF CUT = 280 FT

✓ LENGTH ✓ = 1000 ✓

$\begin{array}{r} 28411 \\ 9 \\ \hline 255699 \end{array}$ $\begin{array}{r} 28007 \\ 9 \\ \hline 252063 \end{array}$ $\begin{array}{r} 28209 \\ 9 \\ \hline 253881 \end{array}$ ✓

No Writeoff for July

SCALE 1" = 100'
FACTOR 17.57 = SQ YDS

DREDGE NO 4

JULY 1943

DREDGE OPERATED 31 DAYS

✓ DUG 646 HRS 22 MINS = 26.93 DAYS = 86.88 %

✓ LOST 97 ✓ 38 ✓ = 4.07 ✓ = 13.12 %

AV. HEIGHT BANK = 2.3 FT

✓ DEPTH = 39.2 ✓

TOTAL = 41.5 ✓

- 2' FOR WATER = TOTAL DEPTH = 39.5 ✓ VIRGIN ONLY. -

VIRGIN

SURFACE = $\frac{3415}{2039} - \frac{4773}{3415} - \frac{6131}{4773} = 1358 \times 17.57 = 23860$ SQ YDS
 $\frac{1376}{1358} \checkmark$

BEDROCK = $\frac{7523}{6183} - \frac{8856}{7523} - \frac{0202}{8856} = 1340 \times 17.57 = 23544$ ✓ ✓
 $\frac{1340}{1333} \checkmark$
2 | 47404 ✓ ✓
AV. AREA = 23702 ✓ SQ YDS

23702 X $\frac{39.5}{41.5} = 312076$
3

REDUG TAILINGS

SURFACE - $\frac{9600}{8970} - \frac{10233}{9600} = 632 \times 17.57 = 11104$ SQ YDS
 $\frac{630}{633} \checkmark$

BEDROCK - $\frac{0685}{0177} - \frac{1193}{0685} = 508 \times 17.57 = 8926$ ✓
 $\frac{508}{508} \checkmark$
2 | 20030 ✓

AVE AREA = 10015 ✓ SQ YDS

10015 X $\frac{41.5}{3} = 138541$ CU. YDS Tailings.

TOTAL CU YDS = $\frac{312076}{3} + 138541 = 450617$ CU YDS

$\frac{450617}{31} = 14536$ CU YDS PER DAY ELAPSED TIME

$\frac{450617}{2693} = 16733$ ✓ ✓ ✓ ✓ DIGGING ✓

POND ELEV = 1193.4

CLAIMS DREDGED = BRONSON & RAY CORP. - 76A-76B-77 ✓

SURFACE AREA = 4.93 ACRES ✓

AV. WIDTH OF CUT = 450 FT.

✓ LENGTH OF ✓ = 630 FT

Virgin
 $\frac{23860}{9} - \frac{23544}{9} = \frac{23702}{9}$
214740 211896 213318

Tail's
 $\frac{10015}{9}$
90135

NO WRITE OFF FOR AUGUST ✓

SCALE 1"=100'
 FACTOR 17.57
 VERNIER @ 34 = SQ YDS

DREDGE NO 4

AUGUST 1943

DREDGE OPERATED 31 DAYS.

✓ DUG 665 HRS 25 MINS = 27.73 DAYS = 89.44%

✓ LOST 78 ✓ 35 ✓ = 3.27 ✓ = 10.56%

AV HEIGHT OF BANK = 0.4 FEET

✓ DEPTH = 38.3 ✓

TOTAL ✓ = 38.7 ✓

SURFACE = $\frac{5032}{3344} \frac{6710}{5032} \frac{8396}{6710} = 1687 \times 17.57 = 29641 \text{ SQ. YDS}$

BED ROCK = $\frac{0090}{8484} \frac{1695}{0090} = 1605 \times 17.57 = 28200 \checkmark \checkmark$

2 | 57841

AV. AREA = 28920 SQ YDS

28920 $\times \frac{129}{38.7} = 373068 \text{ TOTAL CU. YDS}$

$\frac{373068}{31} = 12034 \text{ CU. YDS PER DAY ELAPSED TIME}$

$\frac{373068}{27.73} = 13454 \checkmark \checkmark \checkmark \checkmark \text{ DIGGING}$

POND ELEVATION = 1193.2

CLAIMS DREDGED = BRONSON & RAY CONCESS. - 77 & 78 BELOW BONANZA ✓

SURFACE AREA = 6.12 ACRES ✓

AV. WIDTH OF CUT = 490 FEET ✓

✓ LENGTH ✓ = 525 ✓

$\frac{29641}{9} = 3293$
 $\frac{28200}{9} = 3133$
 $\frac{28920}{9} = 3213$

No WRITE OFF FOR SEPT.

AUG 4 1944

MR. W. H. S. McFARLAND
GENERAL MANAGER.

DREDGE NO 4 RETURN CUT.

I HAVE CALCULATED THE YARDAGE THAT DREDGE NO 4 WILL HAVE TO DIG GOING BACK UPSTREAM FROM LOWER END WHERE IT JOINS NO 3 TAILINGS BACK UP TO WHERE IT WAS LAID OUT TO START DIGGING BED ROCK AGAIN.

THE FOLLOWING IS THE METHOD I USED IN CALCULATING THE YARDAGE. FOR THE LOWER END SECTION I USED THE AVERAGE DEPTH BELOW WATER + THE AVERAGE HEIGHT OF BANK FOR MONTH OF JULY AND ADDED 40% TO TOTAL DEPTH FOR SWELL OF TAILINGS. THE REMAINDER FOR UPPER SECTION I CALCULATED BY USING THE MONTH BY MONTH AVERAGES IT DUG IN COMING DOWN STREAM ADDING 40% FOR SWELL. I ASSUMED THAT IT WOULD GO UP STREAM AGAINST LEFT LIMIT BANK AND THE CREEK CHANNEL WOULD BE 20 FT. WIDE. AND DREDGE WOULD DIG 18 FT DEEP INTO SAND AND THAT ^{THE} HEIGHT OF SAND FOLLOWED THEIR WATER LINE ON THE WAY DOWNSTREAM. THAT THE DREDGE WOULD DIG 200 FT WIDE AT BOTTOM OF CUT AND WOULD FOLLOW LEFT LIMIT UP TO POINT WHERE IT WOULD TURN ALMOST AT RIGHT ANGLES ACROSS HER OWN TAILINGS GRADUALLY DIGGING DEEPER UNTIL IT HIT BED ROCK AT THE EDGE OF OLD CUT.

USING THE ABOVE METHOD OF CALCULATING THE YARDAGE TO BE DUG IT AMOUNTS TO 1,509,300 CU. YDS AND ALLOWING THE DREDGE TO DIG AN AVERAGE OF 14,000 CU. YDS. PER DAY IT WILL TAKE 108 DAYS OR APPROXIMATELY 3 1/2 MONTHS.

G. G. Bennett

① LOWER SECTION — 1700 LIN FT. — TAILS = 24'
 X-SECT. AREA = 7920^{sq} SAND = $\frac{18}{42}$
 VOLUME = $\frac{1700 \times 7920}{27} = 498,667$ CU. Yds

② = 400 LIN FT. — TAILS 27' (45)
 X-SECT AREA = 8460 SQ FT.
 VOLUME = $\frac{400 \times 8460}{27} = 125,333$ CU Yds

③ = 500 LIN. FT. TAILS = 39' (47)
 X-SECT AREA = 10620 SQ FT.
 VOLUME = $\frac{10620 \times 500}{27} = 196,667$ CU. Yds

④ = 400 LIN FT — TAILS = 44' (62)
 X-SECT AREA = 11520 SQ FT.
 VOLUME = $\frac{11520 \times 400}{27} = 170,667$ CU. Yds

⑤ = 700 LIN FT. — TAILS 42' (60)
 X SECT AREA = 11160
 VOLUME = $\frac{11160 \times 700}{27} = 289,333$ CU. Yds.

⑥ 350 LIN FT — TAILS = 34' — 29' BELOW WATER
 TOTAL 63'
 X-SECT AREA 280 x 63 = 17640 SQ FT (47)
 VOLUME = $\frac{17640 \times 350}{27} = 228,667$ CU. Yds

TOTAL = 1,509,334 CU. Yds

AV. 14000 CU. Yds PER DAY

ELAPSED TIME = 108 DAYS

APPROX — 3½ MONTHS.

1700

$$CUB Vol = \frac{3800 \times 7920}{27} = 1,114,665 \text{ cu yds. } \textcircled{1}$$

$x = 27'$

(4) $\frac{500}{200}$ - NOV - $(48+18) \frac{66+40\%}{48} = 92$
 $Z = 44$

X Sect AREA = $44 \times 180 + 18 \times 200 = 11520$

$\frac{800 \times 11520}{27} = 341333$ Cu Yds. (4)

(5) $\frac{1200}{600}$ OCT - $46+17 = 63 \frac{+40\%}{46} = 88$
 $Z = 42$

X Sect AREA = $42 \times 180 + 18 \times 200 = 11160$

$\frac{1200 \times 11160}{27} = 504000$ Cu Yds. (5)

(6) $\frac{500}{350}$ SEPT - $\frac{42+12}{42+9} \frac{54+40\%}{51+40\%} = 76$
 $Z = 29$

X-Sect Area = $29 \times 260 + 18 \times 220 = 11500$

VOL = $\frac{11500 \times 500}{27} = 212962$ Cu Yds. (6)

TOTAL -

557 333
 125 333
 157 333
 170 666
 248 000
 212 962

$\frac{280}{62} = 4.516$
 $\frac{840}{1680} = 5$
 $\frac{17640}{17640} = 1$

14000 / 1471,627 (105 DAYS)

REMAINING DREDGE GROUND IN FRONT OF DR. 4

AREA 1 = 46' AV. DEPTH

$$\text{AREA} = 13652 \text{ SQ. YDS.} = 209,331 \text{ Cu. Yds}$$

AREA 2 = 70' AV. DEPTH

$$\text{AREA} = 21207 \text{ SQ. YDS.} = 494830 \text{ Cu. Yds.}$$

AREA 3 = 94' AVE. DEPTH

$$= 36862 \text{ SQ. YDS.} = 1,164,406 \text{ Cu. Yds.}$$

$$\text{TOTAL YARDAGE} = 1,868,567 \text{ Cu. Yds}$$

PERCENTAGE OF VIRGIN BEDROCK TO
TOTAL BEDROCK IN THIS AREA = 43%

FOR COMPARISON DREDGE DUG 25% VIRGIN
GROUND IN MONTH OF OCTOBER.

TIME REQUIRED TO DIG THIS AREA

$$= \frac{1,868,567}{12000} = 156 \text{ DAYS}$$

$$= 5 \text{ MONTHS } 3 \text{ DAYS}$$

$$\text{AVE DEPTH} = 78.2'$$

Virgin Bed Rock.

$$\begin{array}{r} 3089 \quad 4846 \\ 1334 \quad 3088 \\ \hline 1754 \quad 1758 \end{array} = 1756 \times 17.57 = 30853$$

$$= 277677 \text{ sq ft}$$

sq ft Bed Rock.

$$\begin{array}{r} 2590 \\ 0498 \\ \hline 2092 \end{array} \quad \begin{array}{r} 4672 \\ 2590 \\ \hline 2082 \end{array}$$

$$= 2087$$

$$= 36669 \text{ sq yds}$$

$$= 1,197,854 \text{ cu yds.}$$

94'

$$\begin{array}{r} 9212 \quad 1313 \\ 7117 \quad 9212 \\ \hline 2095 \quad 2101 \end{array}$$

$$= 2098$$

$$= 2098 \times 17.57 = 36862$$

$$36862 \times \frac{94}{3} = 1,164,406$$

$$1,164,406$$

$$494,830$$

$$209,331$$

$$1,868,567$$

= TOTAL

$$\begin{array}{r} 9015' \quad 1022' \\ 7809 \quad 9015' \\ \hline 1206 \quad 1209 \end{array}$$

$$= 1207$$

$$= 21207 \text{ sq yds.} = 494,830 \text{ cu yds.}$$

70'

50

65

$$\begin{array}{r} 7030 \quad 7809 \\ 6255' \quad 7030 \\ \hline 775' \quad 779 \end{array}$$

$$= 777$$

$$= 13652 \text{ sq yds} = 209,331 \text{ cu yds}$$

46'

50

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$$\begin{array}{r} 1000 \\ 29 \\ \hline 12960 \\ 2880 \\ \hline 41760 \end{array}$$

$$\begin{array}{r} 6370 \\ 200 \\ \hline 382200 \\ 30 \\ \hline 38250 \end{array}$$

$$\begin{array}{r} 43560 \\ 4840 \end{array}$$

$$\begin{array}{r} 1440 \\ 4320 \\ \hline 44640 \end{array}$$

$$\begin{array}{r} 6670 \\ 40020 \\ \hline 40054 \end{array}$$

$$\begin{array}{r} 80 \\ 43.6 \end{array}$$

$$\begin{array}{r} 1168 \\ 1110 \\ \hline 58 \end{array}$$

$$\begin{array}{r} 362 \\ 210 \\ 217 \end{array}$$

$$\begin{array}{r} 684 \\ 5260 \\ \hline 41040 \\ 20 \\ \hline 41060 \end{array}$$

$$\begin{array}{r} 1200 \\ 43.6 \\ \hline 1156.4 \end{array}$$

$$\begin{array}{r} 1155.4 \\ 1117 \end{array}$$

$$\begin{array}{r} 31240 \\ 15620 \end{array}$$

$$\begin{array}{r} 1120 \\ 436 \end{array}$$

$$\begin{array}{r} 1168 \\ 1120 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 1119 \\ 105 \\ \hline 1224 \end{array}$$

$$\begin{array}{r} 1115 \\ 105 \\ \hline 1220 \end{array}$$

$$\begin{array}{r} 1168 \\ 1120 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 1120 \\ 105 \\ \hline 1225 \end{array}$$

$$\begin{array}{r} 1220 \\ 1168 \\ \hline 58 \end{array}$$

$$\begin{array}{r} 1168.5 \\ 44 \\ \hline 1124 \end{array}$$

$$\begin{array}{r} 1168.5 \\ 1121 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 1121 \\ 105 \\ \hline 1226 \end{array}$$

$$\begin{array}{r} 1168 \\ 1113 \\ \hline 45 \end{array}$$

$$\begin{array}{r} 1168 \\ 1113 \\ \hline 45 \end{array}$$

$$\begin{array}{l} \% 9.52 = 25.6\% \\ 3110 \times 49 = 12123 \text{ sq ft} \end{array}$$

$$\begin{array}{r} 42160 \\ 10000 \end{array}$$

$$\begin{array}{r} 1226 \\ 105 \end{array}$$

$$\begin{array}{r} 1168 \\ 1113 \\ \hline 45 \end{array}$$

Drill Hole values are in
Cents per Cu.Yd. - Au. @ 35%

Base of Hill

29 25.4
31 55.8
26 145.3
27 37.2
28 65.9
24 54.1
23 18.6
22 194.4
21 18.6
20 147.0
19 84.5

Edge of Yukon Gold

Dredge

Cut

Line

Base

Edge of Yukon Gold

Dredge Cut

Dr. #4 Face of Cut
Sept. 1 - 1944

Bananza

1938

Downstream

Lower Boundary
B. & R. Concession

Sketch showing Dredge No. 4
Face of Cut as of Sept. 1 - 1944
and Oct. 30 - 44
1" = 200'

Sept. 4 - 1944
P.S.C.

86

85

84

Dr # 4 - August 15-46

Surface

$$\begin{array}{r} 6857 \quad 7049 \\ \underline{6665} \quad \underline{6857} \\ 192 \quad 192 \end{array} \quad 192 \times 17.57 = 3373 \text{ Sq Yds}$$

Bedrock

$$\begin{array}{r} 7249 \quad 7456 \\ \underline{7042} \quad \underline{7249} \\ 207 \quad 207 \end{array} \quad 207 \times 17.57 = 3637$$

$$\begin{array}{r} 3637 \\ \underline{2} \quad \underline{7010} \end{array}$$

Avg Area = 3505 Sq Yds

$$3505 \times \frac{90}{3} = 105150 \text{ Cu. Yds}$$

$$\frac{105150}{15} = 7010 \text{ Cu. Yds per day}$$

$$\frac{3505}{15} = 234 \text{ Sq. Yds per day}$$

Ground to be dug - Assumed depth 97'

$$\begin{array}{r} 9128 \quad 1450 \\ 8817 \quad \underline{0128} \\ 1311 \quad 1322 \end{array} \quad 1316 \times 17.57 = 23122 \text{ Sq. Yds}$$

$$23122 \times \frac{97}{3} = 747611 \text{ Cu. Yds.}$$

$$\frac{747611}{7010} = 107 \text{ days} = \text{Dec } 15^{\text{th}}$$

$$\frac{23122}{234} = 99 \text{ days}$$

$$\frac{747611}{8000} = 93 \text{ days} = \text{Nov } 15^{\text{th}}$$

16
30
31
30
107

SCALE 1" = 100'
FACTOR = 17.57 =
SQ YDS -

DREDGE NO 4

SEPTEMBER 1943

DREDGE OPERATED 30 DAYS

✓ DUG 650 hrs 40 min = 27.10 days ✓
✓ LOST 69 - 40 = 2.90 = 9.687 ✓

AV. HEIGHT OF BANK = 8.8 ✓

✓ DEPTH = 41.7 ✓

TOTAL DEPTH = 50.5 ✓

SURFACE = $\frac{6981}{5624} \frac{8350}{6981} \frac{9710}{8350} = 1365 \times 17.57 = 23983$ SQ YDS.

BED ROCK = $\frac{1384}{110} \frac{2659}{1384} = 1275 \times 17.57 = 22402$ ✓
 $2 \overline{) 46385} \text{ SQ YDS}$

AVE AREA = 23193 ✓ ✓

$23193 \times \frac{50.5}{3} = 390416$ TOTAL CU. YDS.

$\frac{390416}{30} = 13014$ CU. YDS PER DAY ELAPSED TIME

$\frac{390416}{27.10} = 14,406$ ✓ ✓ ✓ DIGGING ✓

POND ELEVATION = 1193.7

CLAIMS DREDGED = BRONSON & RAY CONC - 78-78A & 79 BEL BONANZA

SURFACE AREA = 4.96 ACRES.

AV. WIDTH OF CUT = 400 FT

✓ LENGTH ✓ ✓ = 525 ✓

$\frac{23983}{9} = 2664.77$
 $\frac{22402}{9} = 2489.11$
 $\frac{23193}{9} = 2577$

$\frac{26}{10}$

$\frac{250}{22 \times 10}$

SCALE 1" = 100'
FACTOR - 17.57 = SQ Yds
VER. @ 34

DREDGE No 4

OCTOBER 1943

DREDGE OPERATED 31 DAYS

✓ DUG 647 hrs 46 min = 26.99 days = 87.07 %
✓ LOST 96 ✓ 14 ✓ = 4.01 ✓ = 12.93 %

AVE HEIGHT OF BANK = 17.7 FT

✓ DEPTH = 45.4 ✓

TOTAL DEPTH = 63.1 ✓

SURFACE — $\frac{4766}{3575} \frac{5838}{4706} \frac{6974}{5838} = 1133 \times 17.57 = 19907$ SQ Yds

BED ROCK — $\frac{9290}{7281} \frac{9302}{8290} \frac{10308}{9302} = 1009 \times 17.57 = 17728$ ✓ U

2) 37635 ✓
18818 ✓ SQ Yds

AVE AREA

✓ 18818 X $\frac{63.1}{3}$ = 395805 CU. Yds

395805 ÷ 31 = 12768 CU Yds PER DAY ELAPSED TIME

$\frac{395805}{26.99} = 14665$ ✓ ✓ ✓ DIGGING ✓

✓ POND ELEVATION = 1188.3 ✓

CLAIMS DREDGED = BRONSON & RAY CONC. - 79-80-80B-80A

SURFACE AREA = 4.48 ACRES

AVE. WIDTH OF CUT = 280 FT ✓

✓ LENGTH ✓ ✓ = 630 ✓

$\frac{19907}{9} = 179163$
 $\frac{17728}{9} = 159552$
 $\frac{18818}{9} = 169362$

No Writeoff for November

1" = 100'
 Fac = 17.57
 = 56 Yds.

Dredge No 1

November 1943
 Shut down for Season Nov 24 - 7:40 PM

Dredge operated 23 days (22 days for depth)
 dug 453 hrs. 25 min = 17.64 days = 76.71 %
 lost 128 - 35 = 5.36 = 23.29 %
 Avg. Hgt Bank = 18.0 Ft.
 Depth = 48.1
 Total = 66.1

Surface

6763	7398
6125	6763
638	635

637 x 17.57 = 11192 56 Yds.

Bedrock

7945	8499
7387	7945
558	554

556 x 17.57 = 9769
 20961

Avg. Area = 10480

$10480 \times \frac{66.1}{3} = 230909 \text{ Cu. Yds}$

$\frac{230909}{23} = 10040 \text{ Cu. Yds. per day elapsed time}$

$\frac{230909}{17.64} = 13090 \text{ running}$

Pond Elev - 1188.6
 Claims dredged - B. & R. Conc - 804 Bel. Bon.
 Surface Area - 2.31 Acres.
 Avg. Width Cut - 325 Ft.
 Length - 350

11192	9769	10480
9	9	9
100728	87921	94320

NO Writeoff

1" = 100'
 Pm = 17.57
 = Sq. Yds.

Dredge No. 1

May 1944

Started to operate May 2 - 2:25 AM
 Lost Time starts May 2 - 7:00 AM

Dredge operated - 30 days ✓
 dug 595 hrs 48 min = 44.81 days = 82.70 T. ✓
 lost 174 " 32 " = 5.19 " = 17.30 T. ✓
 Avg. Hgt. Bank = 15.3 Ft. ✓
 Depth = 43.8 " ✓
 Total = 59.1 " ✓

Surface $\begin{array}{r} 9230 \\ 8049 \\ \hline 1181 \end{array}$ ✓ $\begin{array}{r} 1583 \\ 0401 \\ \hline 1182 \end{array}$ ✓ $\begin{array}{r} 2757 \\ 1583 \\ \hline 1174 \end{array}$ ✓

1179 × 17.57 = 20715 Sq. Yds. ✓

Bedrock $\begin{array}{r} 3792 \\ 2736 \\ \hline 1056 \end{array}$ ✓ $\begin{array}{r} 4849 \\ 3792 \\ \hline 1057 \end{array}$ ✓

1057 × 17.57 = 18571 ✓
 39286 ✓

Avg Area = 19643 ✓

19643 × $\frac{19.7}{3}$ = 386967 Cu. Yds. ✓

$\frac{386967}{30}$ = 12899 Cu. Yds. per day elapsed time ✓

$\frac{386967}{24.81}$ = 15597 " " " running ✓

Pond Elev - 1176.3 ✓
 Claims dredged - 804-81 Bd Ben - B & R Corp. ✓
 Surface Area - 4.28 Acres. ✓
 Avg Width Cut - 380 Ft. ✓
 Length - 500 " ✓

$\begin{array}{r} 20715 \\ 9 \\ \hline 186435 \end{array}$ ✓ $\begin{array}{r} 18571 \\ 9 \\ \hline 167139 \end{array}$ ✓ $\begin{array}{r} 19643 \\ 9 \\ \hline 176787 \end{array}$ ✓

No Writeoff

$$1 \frac{1}{2} = 100'$$

$$Fac. = 17.57$$

$$= 59.4ds$$

Dredge No. 4 - June 1944

Dredge operated 30 days

$$\text{dug 66 hrs } 81' \text{ min} = 27.35 \text{ days} = 91.17 \text{ Tons}$$

$$\text{lost 63 } 35' = 2.65' = 8.83 \text{ Tons}$$

$$\text{Avg. Hgt. Bank} = 5.8 \text{ Ft.}$$

$$\text{Depth} = 47.1$$

$$\text{Total} = 52.9$$

$$\begin{array}{r} \text{Surface} - 4132 \\ \underline{3071} \\ 1061 \end{array} \quad \begin{array}{r} 5195 \\ \underline{4132} \\ 1063 \end{array}$$

$$1062 \times 17.57 = 18659 \text{ Sq. Yds}$$

$$\begin{array}{r} \text{Bedrock} - 6117 \\ \underline{5137} \\ 980 \end{array} \quad \begin{array}{r} 7100 \\ \underline{6117} \\ 983 \end{array}$$

$$982 \times 17.57 = 17254$$

$$\text{Avg Area} = \frac{35913}{17956}$$

$$17956 \times 52.9 = 316624 \text{ Cu. Yds}$$

$$\frac{316624}{30} = 10554 \text{ Cu. Yds per day elapsed time}$$

$$\frac{316624}{27.35} = 11577 \text{ running time}$$

$$\text{Pond Elev.} = 1170.9$$

$$\text{Claims dredged} - \text{B&R Conc.} - 81 - \text{B&R} - \text{Bel. Bon.}$$

$$\text{Surface Area} = 3.86 \text{ Acres}$$

$$\text{Avg Width Cut} = 460 \text{ Ft.}$$

$$\text{Length} = 340$$

$$\begin{array}{r} 18659 \\ \underline{9} \\ 167931 \end{array} \quad \begin{array}{r} 17254 \\ \underline{9} \\ 155286 \end{array} \quad \begin{array}{r} 17956 \\ \underline{9} \\ 161604 \end{array}$$

No Writeoff for July

1" = 100'
 Fac = 17.57
 = Sq Yds.

Dredge No. 1

July 1944

Dredge operated 31 days

dug 670 hrs 55 min = 27.95 days = 90.187
 lost 73 - 05 = 3.05 = 9.87
 Avg. Hgt Bank = 4.4 ft.
 Depth = 43.3
 Total = 47.7

Surface $\frac{6756}{5497} \frac{8009}{6756} \frac{1256}{1259}$ $1256 \times 17.57 = 22068$ Sq Yds.

Bedrock $\frac{9201}{8018} \frac{0392}{9201} \frac{1187}{1191}$ $1187 \times 17.57 = 20856$
 $\frac{21462}{2}$

Avg Area = 21462

$21462 \times \frac{15.9}{47.7} = 34126$ TOTAL Cu. Yds

$\frac{34126}{31} = 11008$ Cu. Yds per day elapsed time

$\frac{34126}{27.95} = 12209$ - running

POND ELEV. - 1164.1
 CLAIMS DREDGED - B&R CONC - CLAIMS BZ BEL. BON.
 SURFACE AREA - 4.56 ACRES
 AVE WIDTH OF CUT - 490
 LENGTH = 390

$\frac{22068}{9} \frac{20856}{9} \frac{21462}{9}$
 198612 187704 193127

No. Writeoff for August

1" = 100'
 Fac = 17.57
 = Sq. Yds.

Dredge No 1

August 1944

Dredge operated 31 days

dug 623 hrs 40 min = 25.99 days = 83.83 %

lost 120' = 20' = 5.01' = 12.17 %

Avg. Hgt. Bank = 13.2 Ft.

Depth = 39.3'

Total = 52.5'

Surface - $\frac{3659}{2458} \frac{4859}{3659}$
 $\frac{1201}{1200}$

$1200 \times 17.57 = 21084$ Sq. Yds.

Bedrock - $\frac{6014}{4898} \frac{7150}{6014}$
 $\frac{1136}{1136}$

$1136 \times 17.57 = 19960$

$\frac{11044}{11044}$

Avg. Area = 20522

$20522 \times \frac{17.5}{52.5} = 359135$ Cu. Yds

$\frac{359135}{31} = 11585$ Cu. Yds. per day elapsed time

$\frac{359135}{25.99} = 13818$ running

Pond Elev - 1162.0

Claims dredged - 82-83 Bel Bon. - B & R. Conc.

Surface Area - 4.36

Avg Width Cut - 540 Ft.

Length - 370'

$\frac{21084}{9} \quad \frac{19960}{9} \quad \frac{20522}{9}$
 189756 179640 184698

No Write off for September

1" = 100'
 Fao = 17.57
 = 59 Yds

Dredge No 4

September 1944

Dredge operated 30 days (29 days for depth)
 dug 6 hr hrs 35 min = 21.94 days = 86.47
 lost 97 25 = 4.06 = 13.53
 Avg Hgt. Bank = 36.4 ft.
 Depth = 43.9
 Total = 80.3

$$\text{Surface} - \frac{2861}{2254} \frac{3480}{2861} = 613 \times 17.57 = 10770 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{1004}{3450} \frac{4566}{4004} = 558 \times 17.57 = \frac{9804}{2 \overline{20574}} \frac{10287}{10287}$$

$$\frac{3429}{10287} \times \frac{80.3}{3} = 275349 \text{ Cu. Yds.}$$

$$\frac{275349}{30} = 9178 \text{ Cu. Yds. PER DAY ELAPSED TIME}$$

$$\frac{275349}{25.94} = 10615 \text{ Digging Time}$$

Pond Elev. = 1168.8
 Claims dredged - B & R Conc. - 83 Bel. Bon.
 Surface Area = 2.23 Acres
 Avg. Width Cut = 600 ft.
 Length = 230

$$\begin{array}{r} 10770 \\ 9 \\ \hline 96930 \end{array} \quad \begin{array}{r} 9804 \\ 9 \\ \hline 88236 \end{array} \quad \begin{array}{r} 10287 \\ 9 \\ \hline 92583 \end{array}$$

No Writeoff for October ✓

$$\begin{array}{r} 12563 \\ 9 \\ \hline 113027 \end{array} \quad \begin{array}{r} 12123 \\ 9 \\ \hline 109107 \end{array} \quad \begin{array}{r} 12343 \\ 9 \\ \hline 111087 \end{array}$$

No Write off for May ✓

1" = 100'
 Fall = 17.57
 = 59 Yds.

Dredge No 4

May 1946

Dredge started operating May 4 - 1:00 PM
 Lost Time starts May 4 - 7:00 A.M.

Dredge operated 28 days.

dig 586 hrs. 40 min = 24.44 days = 87.30%

lost 85 - 20 - = 3.56 - = 12.70%

Avg. Hgt. Bank = 11.5 Ft.

Depth = 48.3 -

Total - = 59.8 -

$$\text{Surface} - \frac{1208}{618} \cdot \frac{1829}{621} = 620 \times 17.57 = 10893 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{2420}{579} \cdot \frac{3000}{580} = 580 \times 17.57 = 10191$$

$$2 \overline{) 21084} = 10542$$

$$3514$$

$$10542 \times \frac{59.8}{3} = 210137 \text{ TOTAL CU. YDS.}$$

$$\frac{210137}{88} = 2389 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{210137}{24.44} = 8598 \text{ - running -}$$

Pond Elev. - 1167.6

Claims dredged - B & R Conc & 800 Bel Bon.

Surface Area - 2.25 Acres.

Avg Width Cut - 390 ft

Length - 450 -

$$\begin{array}{r} 10893 \\ 9 \\ \hline 98037 \end{array} \quad \begin{array}{r} 10191 \\ 9 \\ \hline 91719 \end{array} \quad \begin{array}{r} 10542 \\ 9 \\ \hline 94878 \end{array}$$

No Writeoff

$2'' = 100'$
 $Fcu = 17.57$
 $= Sq. yds$

Dredge No. 4

June 1946

Dredge operated 30 days
 dug 6 hr 15 min = 27.30 days = 91.01 ft.
 lost 6 hr 45 min = 2.70 = 8.99 ft.
 Avg. Hgt. Bank = 13.0
 Depth = 53.9
 Total = 66.9

Surface

$\begin{array}{r} 6341 \\ 5242 \\ \hline 1097 \end{array}$

$\begin{array}{r} 8540 \\ 7447 \\ \hline 1093 \end{array}$

$1095(17.57) = 19239$
~~17605~~ Sq. Yds.

Bedrock

$\begin{array}{r} 5423 \\ 4488 \\ \hline 1005 \end{array}$

$\begin{array}{r} 6402 \\ 5493 \\ \hline 999 \end{array}$

$1002(17.57) = 17605$
~~15239~~ Sq. Yds.
 $2) 36844$

Av. Area

18422 Sq. Yds.

$\begin{array}{r} \checkmark 27.3 \\ (18422) 66.9 \\ \hline 3 \end{array}$

410810 Cu. Yds.

$\begin{array}{r} 410810 \\ 30 \\ \hline \end{array}$ 13694 Cu. Yds. per day elapsed time.

$\begin{array}{r} 410810 \\ 27.3 \\ \hline \end{array}$ 15048 running

Pond Elev. = 1167.4 ft.

Claims dredged - B & R Conc., 84 & 85 Below Boiv.

Surface Area = ~~5.6~~ acres 3.98

Avg Width Cut = 380 ft.

Length = 410 ft

$\begin{array}{r} 19239 \\ 9 \\ \hline 173151 \end{array}$
 $\begin{array}{r} 17605 \\ 9 \\ \hline 158445 \end{array}$
 $\begin{array}{r} 18422 \\ 9 \\ \hline 165798 \end{array}$

No Writeoff

1" = 100'
 Fac = 17.57
 = 59.4 ds.

Dredge No. 1

July 1946

Dredge operated 31 days (30 days for depth)
 - dug 6.6 hrs. 0 min. = 26.08 days = 84.14 %
 - lost 118 - 0 - = 4.92 - = 15.86 %
 Avg. Hgt. Bank = 26.4 Ft.
 - Depth = 53.9 -
 Total = 80.3 -

Surface $\begin{array}{r} 1016 \\ 0520 \\ \hline 496 \end{array}$ $\begin{array}{r} 1518 \\ 1015 \\ \hline 503 \end{array}$ $\begin{array}{r} 2011 \\ 1518 \\ \hline 493 \end{array}$ (495) 17.57 = 8697 SQ. YDS.

Bedrock $\begin{array}{r} 2439 \\ 1998 \\ \hline 441 \end{array}$ $\begin{array}{r} 2879 \\ 2439 \\ \hline 440 \end{array}$ (441) 17.57 = $\begin{array}{r} 7748 \\ 2 \overline{) 16445} \\ \hline 8223 \end{array}$ SQ. YDS.

Av Area. 8223 SQ. YDS.

$8223 \times \frac{80.3}{3} = 220102$ Cu. Yds.

$\frac{220102}{31} = 7100$ Cu. Yds. per day elapsed Time.

$\frac{220102}{26.08} = 8439$ - - - running -

Pond Elev. - 1169.7 ft.
 Claims dredged - B & R Cone + 84 Bel Bar.
 Surface area - 1.80 Acres.
 Avg. Width Cut - 590 Ft.
 Length - 120 Ft.

$\begin{array}{r} 8697 \\ 9 \\ \hline 78273 \end{array}$ $\begin{array}{r} 7748 \\ 9 \\ \hline 69732 \end{array}$ $\begin{array}{r} 8223 \\ 9 \\ \hline 74007 \end{array}$

No WRITEOFF

Aug. 1946

1" = 100'
 Fac. = 17.57
 = Sq. Yds.

Dredge No. 4

Dredge operated 31 days

✓ dug 646 hrs. 10 min. = 26.92 days = 86.85%

✓ lost 97 ✓ 50 ✓ = 4.08 ✓ = 13.15%

Avg. Hgt. Bank = 37.4 Ft. ✓

✓ Depth = 54.2 ✓

Total ✓ = 91.6 ✓

Surface $\begin{array}{r} 9296 \\ 8892 \\ \hline 404 \end{array}$ $\begin{array}{r} 9696 \\ 9296 \\ \hline 400 \end{array}$ = $402 \times 17.57 = 7063$ sq. yds.

Bedrock $\begin{array}{r} 19102 \\ 9705 \\ \hline 397 \end{array}$ $\begin{array}{r} 508 \\ 102 \\ \hline 406 \end{array}$ $\begin{array}{r} 907 \\ 508 \\ \hline 399 \end{array}$ = $402 \times 17.57 = 7063$ sq. yds.

Av. Area $\begin{array}{r} 214126 \\ \hline 7063 \end{array}$ sq. yds.

$7063 \times \frac{91.6}{3} = 215657$ Cu. Yds.

$\frac{215657}{31} = 6957$ Cu. yds. per day elapsed time

$\frac{215657}{26.92} = 8011$ Cu. yds. per day running time

Pond Elev. = 1170.8

Claims Dredged = B+R Conc. + 84 Bel. Bon. ✓

Surface Area = 1.45 Acres ✓

Avg Width Cut = 518 Ft. ✓

✓ Length = 128 Ft. ✓

$\begin{array}{r} 7063 \\ 9 \\ \hline 63567 \end{array}$ $\begin{array}{r} 7063 \\ 9 \\ \hline 63567 \end{array}$ $\begin{array}{r} 7063 \\ 9 \\ \hline 63567 \end{array}$

No Writeoff

Sept. 1946

Dredge No 4

1"=100'

Fac=17.57

=sq.yds.

Dredge operated 30 days

dug 640 hrs 10 min = 26.67 days = 88.91 %

lost 79' 50' = 3.33' = 11.09 %

Avg. Hgt. bank = 44.3 ft.

Avg. Depth = 53.5'

Total = 97.8'

Surface - $\frac{3053}{2676} \quad \frac{3440}{3053} \quad \frac{3820}{3440}$ = 381 X 17.57 = 6694 sq.yds.

Bedrock - $\frac{4193}{3320} \quad \frac{4568}{4193}$ = 374 X 17.57 = 6571 sq.yds.

Avg. Area = 6632

$6632 \times \frac{97.8}{3} = 216203$ Cu.Yds

$\frac{216203}{30} = 7207$ Cu.Yds. per day elapsed Time

$\frac{216203}{26.67} = 8107$ running

Pond Elev = 1168.0
Claims dredged = 84 Below Bonanza
Surface Area = 1.38 Acres
Avg. Width Cut = 400'
Avg. Length Cut = 120'

$\frac{6694}{9} \quad \frac{6571}{9} \quad \frac{6632}{9}$
60246 59139 59684

No Write off

1" = 100'
 Fac. = 17.57
 = sq. yds.

Dredge N^o 4

Oct. 1946

Shutdown for Season Oct 25 - 8:00 AM.

Dredge operated 24 days
 - dug 515 hrs or min = 21.46 days = 89.42%
 - lost 60 - 55 - = 2.54 - = 10.58%
 Avg. Hgt. bank = 51.4 Ft.
 - Depth = 51.2 -
 Total - = 102.6 -

Surface $\frac{7277}{269} \quad \frac{7540}{263} \quad \frac{7801}{261} \quad 262 \times 17.57 = 4603 \quad \text{sq. yds.}$

Bedrock $\frac{8904}{248} \quad \frac{9153}{249} \quad 249 \times 17.57 = 4375 \quad \text{sq. yds.}$
 $\frac{8656}{248} \quad \frac{8904}{249} \quad 218978$
 Avg. Area = 4489 sq. yds.

$4489 \times \frac{34.2}{3} = 153524 \quad \text{cu. yds.}$

$\frac{153524}{24} = 6397 \quad \text{cu. yds. per day elapsed time}$

$\frac{153524}{21.46} = 7154 \quad \text{cu. yds. per day running time}$

Pond Elev. = 1164.6 ✓
 Claims dredged = 84 Bel. Bon. + B. + R. Conc. ✓
 Surface Area = 0.95 Acres
 Avg. Width Cut = 140'
 Avg. Length Cut = 300'

$\frac{4603}{9} \quad \frac{4375}{9} \quad \frac{4489}{9}$
 $41427 \quad 39375 \quad 40401$

No Writeoff

Dredge N^o 1

April 1947
Started to dig Apr 29-6:25 AM

Dredge operated 2 days

- dug 4 hrs. 05 min = 1.75 days = 87.67 2.

- lost 5 hr 55 min = 0.25 days = 12.33 2

Avg Hgt Bank = 32.5 Ft.

Depth = 56.0

Total = 88.5

During the 2 days that the dredge operated she was cleaning up the bottom of the pond. The face was not touched so no measurement could be made. A nominal 6000 Cu Yds has been given her.

Area	Depth	Cu Yds.
31 ft	ft.	
1831	88.5	6000

$\frac{6000}{2} = 3000$ Cu Yds per day elapsed time

$\frac{6000}{1.75} = 3429$ running

Claims dredged - B & R Conc

✓ No Writeoff

Dredge No 1

May 1947

Dredge operated 31 days

dug 687 hrs. 35 min. 28.6 days = 92.427

lost 56 - 85 = 2.35 = 7.5870

Avg Hgt Bank = 24.7 Ft.

Depth = 56.9

Total = 81.6

Total Surface - $\frac{5609}{578} \frac{6183}{574}$

$578 \times 17.57 = 10120$ Sq. Yds.

Total Bedrock - $\frac{6684}{485} \frac{7170}{482}$

$484 \times 17.57 = 8503$ Sq. Yds.

Avg Area = 9312

$9312 \times 81.6 = 253286$ Cu. Yds Total

Virgin Surface - $\frac{8020}{240} \frac{8262}{242}$

$241 \times 17.57 = 4234$

Sq. Yds.

Virgin Bedrock - $\frac{8502}{255} \frac{8783}{281} \frac{9063}{280}$

$280 \times 17.57 = 4919$

Sq. Yds.

Avg. Area = 4577

$4577 \times 81.6 = 124494$ Cu. Yds Virgin

	Surface	BR.	Avg	Cu. Yds.
Total	10120	8503	9312	253286
Virgin	4234	4919	4577	124494
Re-Dug Tails	5886	3584	4735	128792

$\frac{253286}{31} = 8170$

Cu. Yds per day elapsed time

$\frac{253286}{28.65} = 8840$

running

Pond Elev - 1171.8

Claims Dredged - B & R Conc

Surface Area = 2.09 Acres.

Avg. Width - 275'

Length - 325'

10120	8503	9312	4234	4919	4577	5886	3584	4735
9	9	9	9	9	9	9	9	9
91080	76527	83808	38106	44271	41193	52974	32256	42615

No Write off

Dredge No 4

June 1947

Dredge operated 30 days

✓ dug 640 hrs 15 min = 26.68 days = 88.9 yr

$$\checkmark \quad 1057 \quad 79 \checkmark \quad 45 \checkmark \quad = \quad 3.32 \checkmark \quad = \quad 11.08\%$$

Avg. Hgt. Bank = 38.8 ft.

Depth = 33.3

Total = 72.1 ✓

Surface $\begin{array}{r} 1555 \\ 6884 \\ \hline 668 \end{array}$ $\begin{array}{r} 2221 \\ 1555 \\ \hline 666 \end{array}$ $667 \times 17.57 = 11719 \text{ Sq. Yds.}$

Bedrock 3556 4199 $645 \times 17.57 = 11333$
 2910 3556 2 | 23052
 646 643

Avg Area = 11526 ✓

$$\begin{array}{r} 3842 \\ 11576 \times 72.1 \\ \hline 3 \end{array} = 277008 \text{ Ch. Xds. Redug Tails}$$
$$\frac{277008}{30} = 9234 \text{ Cu. Yds per day elapsed Time}$$

Pond Elev.	-	1170.3
Claims dredged	-	B & R Conc.
Surface Area	-	2.42 Acres.
Avg Width Cut	-	200 ft
Length	-	490 ✓

11719	11333	11526
9	9	9
105471	101997	103734

No Writeoff.

1" = 100'
 K₀₀ = 17.57
 = 59.4 ds.

Dredge No. 11

July 1947

Dredge operated 31 days

- dug 664 hrs. 20 min = 27.68 days = 89.29 %

- lost 79 - 40 = 3.32 = 10.71 %

Avg Hgt Bank = 31.5 ft.

✓ Depth = 22.7

Total = 54.2

Surface $\begin{array}{r} 9640 \\ 8360 \\ \hline 1280 \end{array}$ $\begin{array}{r} 0927 \\ 9640 \\ \hline 1287 \end{array}$ $1284 \times 17.57 = 22560$ Sq. Yds.

Bedrock $\begin{array}{r} 2119 \\ 0918 \\ \hline 1201 \end{array}$ $\begin{array}{r} 3303 \\ 2119 \\ \hline 1184 \end{array}$ $\begin{array}{r} 4492 \\ 3303 \\ \hline 1193 \end{array}$ $1193 \times 17.57 = 20961$ ✓
 $\begin{array}{r} 20961 \\ 2 \\ \hline 43521 \end{array}$

Avg Area = 21760 ✓

$21760 \times \frac{54.2}{3} = 393131$ Cu. Yds Redug Tails

$\frac{393131}{31} = 12682$ Cu. Yds. per day elapsed time

$\frac{393131}{27.68} = 14203$ - running -

Pond Elev - 1171.1
 Claims dredged - B. & R. Conc.
 Avg. Width Cut - 200 Ft.
 ✓ Length - 960 -
 Surface Area - 4.66 Acres.

$\begin{array}{r} 22560 \\ 9 \\ \hline 203040 \end{array}$ $\begin{array}{r} 20961 \\ 9 \\ \hline 188649 \end{array}$ $\begin{array}{r} 21760 \\ 9 \\ \hline 195840 \end{array}$

No Write-off

1" = 10'

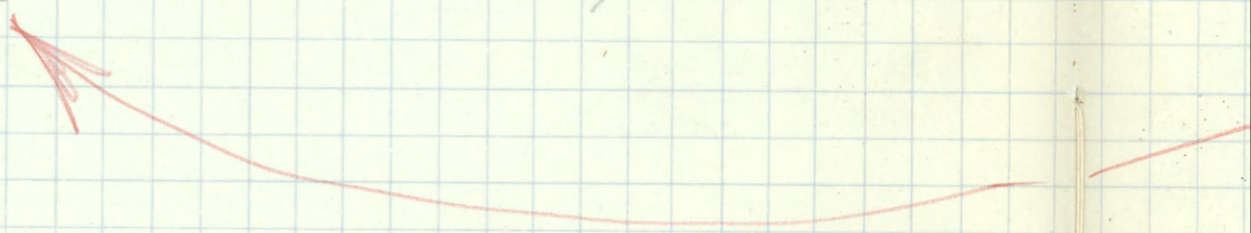
Fac. = 1

Recalculated cutting Total Depth to 55.8 Ft.

$$22823 \times \frac{18.6}{3} = 424508 \text{ Cu Yds}$$

$$\frac{424508}{31} = 13694 \text{ Cu Yds per day elapsed time}$$

$$\frac{424508}{27.95} = 15188 \quad \checkmark \quad \text{running} \quad \checkmark$$



1" = 100'

Fac. = 17.57

= Sq. Yds.

Dredge No 4

August 1947

Dredge operated 31 days

✓ dug 670 hrs. 45 min. = 27.95 days = 90.15% ✓
 ✓ lost 73 hrs. 15 min. = 3.05 days = 9.85% ✓

Arg. Hgt. Bank = 45.7 Ft. - 35.7 Ft.

✓ Depth = 20.1 ✓ - 20.1 ✓

Total Depth = 65.8 ✓ - 55.8 ✓

Surface 9439 10774 1340 x 17.57 = 23544 Sq. Yds.

8094
 1345 ✓ 9439 ✓

1335 ✓

Bedrock 2035 3290

0774 2035

1261 ✓ 1255 ✓

1258 x 17.57 = 22103 ✓
 2145647 ✓

Arg. Area = 22823 ✓ ✓

22823 x $\frac{65.8}{3}$ = 500508

Cu. Yds. Redug Tails

$\frac{500508}{31}$ = 16145

Cu. Yds. per day elapsed time

$\frac{500508}{27.68}$ = 18082
 9 ✓

✓ ✓ ✓ ✓ running ✓

Pond Elev. - 1181.5 Ft.

Claims dredged - B & R Conc. ✓

Avg. Width Cut - 250 Ft. ✓

✓ Length ✓ - 810 ✓

Surface Area - 4.86 Acres ✓

23544
 9
 211896 ✓

22103
 9
 198927 ✓

22823
 9
 205407 ✓

No Writeoff

Dredge N: A September 1947

Dredge N: A September 1947

Dredge operated 30 days

✓ dog 413 hrs 30 min. = 27.23 days = 90.76 %
✓ lost 66 - 30 - 2.77 - 9.24 %

✓ lost 66 - 30 ✓ = 2.77 - 9.2470

Avg. Hgt Bank = 39.9 Ft.

✓ Depth = 22.8 ✓

Total = 62.9 ✓

Surface $\begin{array}{r} 5056 \\ 4096 \\ \hline 960 \end{array}$ $\begin{array}{r} 6088 \\ 5056 \\ \hline 972 \end{array}$

$$966 \times 17.57 = 16973 \text{ lbs.}$$

Bedrock: $\begin{array}{r} 6613 \\ 6039 \\ \hline 924 \end{array}$ $\begin{array}{r} 7891 \\ 6963 \\ \hline 978 \end{array}$

$$9 \times 6 \times 17.57 = 16269$$

$$2(33242)$$

Avg. Area = 166 yd

$$16621 \times \frac{20.9}{62.7} = 547379 \text{ Cu. Yds.}$$
$$\frac{347379}{30} = 11579 \text{ Cu.Yds. per day elapsed Time}$$

$\frac{347379}{7.23} = 12.757$ ✓ ✓ ✓ running ✓

Pond Elev	-	1197.7
Clams dredged	-	B + R Conc.
Surface Area	-	3.57 Acres.
Avg Width Cont	-	275 Ft.
Length	-	600

16973	16269	16621
<u>9</u>	<u>9</u>	<u>9</u>
152757	146421	149589

No Write off

Dredge No. 1

October 1947

Dredge operated 31 days - 29 days for Depth

$$\checkmark \text{ dug } 607 \text{ hrs } 20 \text{ min} = 25.31 \text{ days} = 81.63 \text{ } \checkmark$$

$$\checkmark \text{ lost } 136 \checkmark 40 \checkmark = 5.69 \checkmark = 18.37 \checkmark$$

Avg. Net Bank = 30.8 Ft. ✓

Depth = 33.7 ✓

Total = 64.5 ✓✓

Total Surface $\begin{array}{r} 8276 \\ 7455 \\ \hline 821 \end{array} \checkmark \quad \begin{array}{r} 9199 \\ 8276 \\ \hline 823 \end{array} \checkmark \quad 821 \times 17.57 = 14442 \text{ Sq. Yds.} \checkmark$

Total Bedrock $\begin{array}{r} 9866 \\ 9093 \\ \hline 773 \end{array} \checkmark \quad \begin{array}{r} 0624 \quad 1386 \\ 9866 \quad 0624 \\ \hline 759 \quad 761 \end{array} \checkmark \quad 760 \times 17.57 = 13353 \text{ Sq. Yds.} \checkmark$

Avg. Area $\begin{array}{r} 2 \overline{) 2779.5} \\ 1389.7 \end{array} \checkmark \text{ Sq. Yds.}$

$$13897 \checkmark \times \frac{21.5}{\underline{64.5}} = 298,785 \checkmark \text{ Cu. Yds Total}$$

Virgin Surface $\begin{array}{r} 1537 \\ 1393 \\ \hline 144 \end{array} \checkmark \quad \begin{array}{r} 1683 \\ 1537 \\ \hline 146 \end{array} \checkmark \quad 145 \times 17.57 = 2547 \checkmark \text{ Sq. Yds.}$

Virgin Bedrock $\begin{array}{r} 1836 \\ 1677 \\ \hline 159 \end{array} \checkmark \quad \begin{array}{r} 1995 \\ 1836 \\ \hline 159 \end{array} \checkmark \quad 159 \times 17.57 = 2793 \checkmark \text{ Sq. Yds.}$

Avg. Area $\begin{array}{r} 2 \overline{) 5340} \\ 2670 \end{array} \checkmark \text{ Sq. Yds.}$

$$2670 \times \frac{21.5}{\underline{64.5}} = 5740.5 \text{ Cu. Yds Virgin}$$

	Surface	B.R.	Avg	Cu. Yds.
Total	14442	13353	13897	298,785
Virgin	2547	2793	2670	57,405
Ridg. Tails	11895 ✓	10560 ✓	11227 ✓	241,380 ✓

$$\frac{298,785}{31} = 9638 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{298,785}{25.31} = 11805 \text{ Cu. Yds. per day running time}$$

Pond Elev. = 1204.9 Ft.

Claims dredged = B & R Cone. ✓

Avg. Width = 300 Ft

Length = 440 ✓

Surface Area = 2.98 Acres.

14442	13353	13897	2547	2793
9	9	9	9	9
129978	120177	125073	22923	25137
2670	11895	10560	11227	
9	9	9	9	
24030	107055	95040	101043	

No Write off

Pond Elev - 1196.8 ✓
Claims dredged - B. & R. Conc. ✓
Surface Area - 2.01 Acres ✓
Avg Width Cut - 290 Ft. ✓
- Length - 300 ✓

Dredge N:4

November 1947
Shut down Nov 18 - 8 AM.

Dredge operated 17 days

- dug 350 hrs. 55 min = 14.62 days = 86.007 ✓
- lost 57 - 05 - = 2.38 - = 14.007 ✓

Avg. Hgt Bank = 16.1 ✓

- Depth = 46.0 ✓

Total - = 62.1 ✓

Total Surface - $\frac{9898}{550} \frac{0455}{557} \frac{9898}{557} 554 \times 17.57 = 9734 \text{ Sq. Yds.}$ ✓

Total Bedrock - $\frac{0924}{478} \frac{1413}{489} \frac{1893}{480} 479 \times 17.57 = \frac{8416}{218150} \frac{9075}{9075}$ ✓
Avg Area = 9075 ✓

$\frac{3025}{3} 9075 \times 62.1 = 187853 \text{ Cu. Yds.}$ ✓

$\frac{187853}{17} = 11050 \text{ Cu. Yds. per day elapsed time}$ ✓

$\frac{187853}{14.62} = 12849$ - running - ✓

Virgin Surface - $\frac{3032}{374} \frac{3410}{378} \frac{3032}{378} 376 \times 17.57 = 6606 \text{ Sq. Yds.}$ ✓

Virgin Bedrock - $\frac{3738}{336} \frac{4508}{339} \frac{4169}{339} 338 \times 17.57 = \frac{5939}{212541} \frac{6273}{6273}$ ✓
Avg Area = 6273 ✓

$\frac{2091}{3} 6273 \times 62.1 = 129851 \text{ Cu. Yds.}$ ✓

	Surface	Bedrock	Avg.	Cu. Yds.
Total	9734	8416	9075	187853
Virgin	6606	5939	6273	129851
Tailings	3128	2477	2802	58002

Total	Total	Total	Virgin	Virgin	Virgin	Tails	Tails	Tails
9734	8416	9075	6606	5939	6273	3128	2477	2802
9	9	9	9	9	9	9	9	9
87606	75744	81675	59454	53451	56457	28152	22293	25218

No Writeoff

Re-calculation

assuming 8' of water
over $\frac{3}{4}$ of Total Area or
6' over Total Area.

New depths.

$$\begin{aligned} &= \text{Avg Hgt Bank} = 1.9' \\ &\quad \text{Depth} = 47.0' \\ &\text{Total} = 48.9' \end{aligned}$$

$$\frac{18923 \times 48.9}{3} = 308445 \text{ Cu Yds.}$$

$$\frac{308445}{26} = 11863 = \text{Cu Yds per day elapsed time}$$

$$\frac{308445}{23.40} = 13181 - \text{running}$$

Dredge No 1

May 1948

Started operating May 6 - 11:30 AM.

Lost Time May 6 - 8:00 AM

Dredge operated 26 days

• dug 561 hrs. 30 min = 23.40 days = 89.98 %

• lost 62 " 30 " = 2.60 " = 10.02 %

Avg. Hgt. Bank = 4.9 ft.

• Depth = 13.0 -

Total = 17.9 -

Surface
$$\begin{array}{r} 2622 \\ 1549 \\ \hline 1073 \end{array} \quad \begin{array}{r} 3698 \\ 2622 \\ \hline 1076 \end{array}$$

$$1075 \times 17.57 = 18888 \checkmark 54 \text{ Yds.}$$

Bedrock
$$\begin{array}{r} 4785 \\ 3701 \\ \hline 1084 \end{array} \quad \begin{array}{r} 5858 \\ 4785 \\ \hline 1073 \end{array}$$

$$1079 \times 17.57 = 18958 \checkmark$$
$$\checkmark 37846 \checkmark$$

$$\text{Avg. Area} = 18923 \checkmark$$

~~$$18923 \times \frac{18.3}{3} = 346791 \checkmark \text{ Cu. Yds.}$$~~

~~$$\frac{346791}{26} = 13319 \checkmark \text{ Cu. Yds. per day elapsed Time}$$~~

~~$$\frac{346791}{23.40} = 14799 \checkmark \text{ running}$$~~

Pond Elev. - 1203.7
Claims dredged - B + R. Cone.
Surface Area - 3.90 Acres.
Avg. Width Cut - 400 ft.
Length - 260 -

$$\begin{array}{r} 18888 \\ 9 \\ \hline 169992 \checkmark \end{array}$$

$$\begin{array}{r} 18958 \\ 9 \\ \hline 170622 \checkmark \end{array}$$

$$\begin{array}{r} 18923 \\ 9 \\ \hline 170307 \checkmark \end{array}$$

No Write off

17.57

Dredge No 4

June 1948

Dredge operated 30 days

dug 668 hrs. 15 min = 27.84 days - 92.817

lost 21 45 = 2.16 = 7.197

Avg Hgt. Bank = 1.9 ft.

Depth = 47.1

Total = 49.0

Surface $\begin{array}{r} 2689 \\ 2689 \\ 1186 \end{array}$ $\begin{array}{r} 3937 \\ 2689 \\ 1253 \end{array}$ $\begin{array}{r} 5187 \\ 3937 \\ 1250 \end{array}$ $1252 \times 17.57 = 21998$ sq. yds.

Bedrock $\begin{array}{r} 6337 \\ 5104 \\ 1233 \end{array}$ $\begin{array}{r} 2554 \\ 6337 \\ 1214 \end{array}$ $\begin{array}{r} 8790 \\ 7554 \\ 1236 \end{array}$ $1234 \times 17.57 = 21681$ sq. yds.

21998
Avg. Area 21839 sq. yds.

$$\frac{21839 \times 49}{3} = 356703 \text{ Cu. Yds.}$$

$$\frac{356703}{30} = 11890 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{356703}{27.84} = 12813 \text{ running}$$

Pond Elev. - 1202.3

Claims Dredged - B+R. Conc.

Surface Area - 4.56 Acres

Avg. Width Cut - 535'

Avg. Length Cut - 350'

$\begin{array}{r} 21998 \\ 9 \\ 197982 \end{array}$ $\begin{array}{r} 21681 \\ 9 \\ 195129 \end{array}$ $\begin{array}{r} 21839 \\ 9 \\ 196551 \end{array}$

No write off.

Dredge No. 4

July 1948

Dredge Operated 31 Days

Dug 682 hrs 55 min = 28.45 days = 91.79%

Lost 61 hrs 05 min = 2.55 = 8.21%

Avg Hgt. Bank 0.7 Ft.

Depth 41.3

Total 420

Surface $\frac{5106}{4033}$ $\frac{6185}{5106}$
1073 1079

$1076 \times 17.57 = 18905$ Sq. Yds.

Bedrock $\frac{7193}{6127}$ $\frac{8257}{7193}$
1066 1064

$1065 \times 17.57 = 18712$ Sq. Yds.
37617

Avg Area 18809 Sq. Yds.

$18809 \times \frac{42}{3} = 263326$ Cu. Yds.

$\frac{263326}{31} = 8494$ Cu. Yds per day Elapsed Time

$\frac{263326}{28.45} = 9256$ Running

Pond Elev - 1202.0
Claims dredged - B-R Conc
Surface Area - 3.90 Acres
Avg Width Cut - 370
Avg Length Cut - 460

$\frac{18905}{9}$ $\frac{18712}{9}$ $\frac{18809}{9}$
170145 168408 169281

Thawing Whitestoff

Block N° 7 -
27.6

$$\begin{array}{r} 8955 \\ 8803 \\ \hline 152 \end{array}$$

$$\begin{array}{r} 9110 \\ 8955 \\ \hline 155 \end{array}$$

$$154 \times 17.57 \times 27.6 = 24886 \text{ CY.}$$

Dredge No 4

Aug. 1948

Dredge operated 31 days
 - dug 680 hrs 50 min = 28.37 days = 91.512.
 - lost 63 10 = 2.63 = 8.492.
 Avg. Hgt. Bank = 2.8 Ft.
 - Depth = 30.7
 Total = 33.5

Surface $\begin{array}{r} 4590 \\ 3011 \\ \hline 1579 \end{array}$ $\begin{array}{r} 6156 \\ 4587 \\ \hline 1569 \end{array}$

$1574 \times 17.57 = 27655$ sq. yds.

Bedrock $\begin{array}{r} 7716 \\ 6172 \\ \hline 1544 \end{array}$ $\begin{array}{r} 9266 \\ 7716 \\ \hline 1550 \end{array}$

$1547 \times 17.57 = 27181$ sq. yds.

$\sqrt{54836}$

Avg Area = 27418

$\frac{27418 \times 33.5}{3} = 306168$ Cu. Yds.

$\frac{306168}{31} = 9876$ Cu. Yds per day elapsed time

$\frac{306168}{28.37} = 10792$ - running -

Pond Elev - 1198.1
 Claims dredged - B&R Conc.
 Surface Area - 5.71 Acres.
 Avg Width Cut - 200 Ft.
 Length - 1200 -

$\begin{array}{r} 27655 \\ 9 \\ \hline 248895 \end{array}$ $\begin{array}{r} 27181 \\ 9 \\ \hline 244629 \end{array}$ $\begin{array}{r} 27418 \\ 9 \\ \hline 246762 \end{array}$

Thawing Writeoff

Block 6 (32.3) ✓ $\frac{7018}{6823} \frac{7218}{7018} \frac{197 \times 17.57 \times 32.3}{3} = 37263$ cu. yds. ✓

Block 7 ✓ Remainder = 17158 cu. yds. ✓

Block 8 (31.2) ✓ $\frac{6451}{6363} \frac{6540}{6451} \frac{89 \times 17.57 \times 31.2}{3} = 16265$ cu. yds. ✓

Total = 70686 cu. yds. ✓

Dredge N^o 4

Sept. 48

Dredge operated 30 days

✓ dug 65 hrs 20 min = 27.31 days = 91.022

✓ lost 64 - 40 - = 2.64 - = 8.9870

Avg. Hgt. Bank = 6.8 Ft.

✓ Depth = 26.6 -

Total ✓ = 33.4 ✓

Surface

$$\begin{array}{r} 3424 \\ 3296 \\ \hline 1128 \end{array} \quad \begin{array}{r} 4548 \\ 3424 \\ \hline 1124 \end{array}$$

= 1126 X 17.57

= 19784

sq. yds.

Bedrock

$$\begin{array}{r} 5807 \\ 4669 \\ \hline 1138 \end{array} \quad \begin{array}{r} 6950 \\ 5807 \\ \hline 1143 \end{array}$$

= 1140 X 17.57

= 20030

sq. yds.

2139814

Avg. Area = 19907 ✓ sq. yds.

$$\frac{19907 \times 33.4}{3} = 221631 \text{ cu. yds.}$$

$$\frac{221631}{30}$$

= 7388

cu. yds. per day elapsed time

$$\frac{221631}{27.31}$$

= 8115

cu. yds. per day running time

Pond Elev. = 1197.6

Claims Dredged. = B. + R. Con.

Surface Area. = 4.09 Acres ✓

Avg. Width Cut. = 300'

✓ Length ✓ = 500'

19784

20030

19907

9

9

9

178056 ✓

180270 ✓

179163 ✓

Thawing Writeoff

Block N^o 5 ✓

Remainder

= 35882 cu.yds. ✓

✓

6 ✓

Remainder

= 61773 ✓ ✓

✓

8 ✓
(31.2) ✓

$\frac{1407}{1298}$
109 ✓

$\frac{1516}{1407}$
109 ✓

$109 \times 17.57 \times \frac{104}{51.2} = 19916$ ✓ ✓

✓

9 ✓
(33.8) ✓

$\frac{1600}{1516}$
84 ✓

$\frac{1682}{1600}$
82 ✓

$83 \times 17.57 \times 33.8 = 16427$ ✓ ✓

Total = 133998 ✓ ✓

Dredge No 4

Oct. 1948

Dredge operated 31 days

dug 689 hrs. 25 min. = 28.73 days = 92.66%

lost 54 .35 = 2.27 = 7.34%

Avg. Hgt. Bank = 8.9 Ft.

Depth = 25.6

Total = 34.5

Surface

$$\begin{array}{r} 7986 \\ 7040 \\ \hline 946 \end{array}$$

$$\begin{array}{r} 8934 \\ 7986 \\ \hline 948 \end{array}$$
 $947 \times 17.57 = 16639$ sq. yds.Bedrock

$$\begin{array}{r} 0863 \\ 9952 \\ \hline 911 \end{array}$$

$$\begin{array}{r} 1778 \\ 0863 \\ \hline 915 \end{array}$$
 $913 \times 17.57 = 16041$

2132680

Avg. Area = 16340

 $\frac{16340 \times 34.5}{3} = 187910$ cu. yds. $\frac{187910}{31} = 6062$ cu. yds per day elapsed time $\frac{187910}{28.73} = 6541$ cu. yds. per day running time

Pond Elev. = —

Claims Dredged = B. & R. Con.

Surface Area = 3.44 Acres

Avg. Width Cut. = 350 Ft.

Avg. Length = 350

16639	16041	16340
<u>9</u>	<u>9</u>	<u>9</u>
149751	144369	147060

Thawing Writeoff

Block N^o 4

Remainder

= 8194 cu. yds.

- 9
(33.8)

$\frac{7062}{6937}$
125

$\frac{7189}{7062}$
127

$\frac{42}{126} \times 17.57 \times 33.8 = \underline{24944}$ cu. yds.

Total = 33138 cu. yds.

Dredge No 4

November 1948

Shut down for Season Nov. 21 - 12:30pm

For Last Time Nov. 21 - 8:00am.

Dredge operated 20 days - 17 days for depth

- dug 363 hrs 10 min = 15.13 days = 75.66 ft.

- lost 116 ft 50 in = 4.87 ft = 24.34 ft.

Avg Net Bank = 10.6 Ft.

Depth = 20.4 ft

Total = 31.0 ft

Surface

$$\begin{array}{r} 6237 \\ 5715 \\ \hline 522 \end{array}$$

$$\begin{array}{r} 6764 \\ 6237 \\ \hline 527 \end{array}$$

$$525 \times 17.57 = 9224 \text{ sq. yds.}$$

Bedrock

$$\begin{array}{r} 7247 \\ 6750 \\ \hline 497 \end{array}$$

$$\begin{array}{r} 7748 \\ 7247 \\ \hline 501 \end{array}$$

$$499 \times 17.57 = 8767$$

$$2 \overline{) 17991}$$

$$\text{Avg. Area} = 8996$$

$$\frac{8996 \times 31.0}{3} = 92959 \text{ cu. yds.}$$

$$\frac{92959}{20} = 4648 \text{ cu. yds. per day elapsed time}$$

$$\frac{92959}{15.13} = 6144 \text{ cu. yds. per day running time}$$

Pond Elev. = —

Claims Dredged = B+R Conc.

Surface Area = 1.90 Acres.

Avg Width cut = 250 Ft.

Length = 320 Ft.

$$\begin{array}{r} 9224 \\ 9 \\ \hline 83016 \end{array}$$

$$\begin{array}{r} 8767 \\ 9 \\ \hline 78903 \end{array}$$

$$\begin{array}{r} 8996 \\ 9 \\ \hline 80964 \end{array}$$

No Thaw Writeoff

Dredge No 4 May 1949
Started May 6 - AM.

Dredge operated 26 days
 dug 268 hrs 50 min = 23.70 days = 91.16?
 lost 55 - 10 - = 2.30 - = 8.84?
 Avg Hgt Bank 11.8 Ft.
 Depth 22.8
 Total 34.6

Surface $\begin{array}{r} 4619 \\ 4310 \\ \hline 309 \end{array}$ $\begin{array}{r} 4929 \\ 4619 \\ \hline 310 \end{array}$ $310 \times 17.57 = 5447$ Sq. Yds.

Bedrock $\begin{array}{r} 5519 \\ 5227 \\ \hline 292 \end{array}$ $\begin{array}{r} 5805 \\ 5519 \\ \hline 286 \end{array}$ $289 \times 17.57 = 5077$
 $2 \overline{) 10524}$

Avg Area = 5262

$\begin{array}{r} 1754 \\ 5262 \\ \hline \end{array} \times \frac{34.6}{3} = 60688$ Cu. Yds.

$\frac{60688}{26} = 2334$ Cu. Yds. per day elapsed time

$\frac{60688}{23.70} = 2561$ running

Claims dredged - B+R Conc.
 Surface Area - 1.13 Acres.
 Avg width Cut - 180 Ft.
 Length - 300

$\begin{array}{r} 5447 \\ 9 \\ \hline 49023 \end{array}$ $\begin{array}{r} 5077 \\ 9 \\ \hline 45693 \end{array}$ $\begin{array}{r} 5262 \\ 9 \\ \hline 47358 \end{array}$

Thawing Writeoff

Block #9

Remainder

= 16663 CuYds

#8

Remainder

= 28663 ✓ ✓

Total = 45326 ✓

Dredge No 4

June 1949

Dredge operated 30 days

✓ dug 673 hrs. 10 min. = 28.05 days = 93.50%

✓ lost 46 ✓ 50 ✓ = 1.95 ✓ = 6.50%

Avg Hgt. bank = 9.2 Ft.

✓ Depth = 26.0 ✓

Total - = 35.2 ✓

Surface

$\frac{3707}{678}$

$\frac{4385}{678}$

678 X 17.57 = 11912 59 Yds.

Bedrock

$\frac{2275}{661}$

$\frac{3617}{660}$

661 X 17.57 = 11614 ✓
 $\frac{23526}{3}$

Avg. Area = 11763 ✓

$\frac{3921}{11763 \times 35.2} = 138019$ Cu. Yds.

$\frac{138019}{30} = 4601$ Cu. Yds. per day elapsed time

$\frac{138019}{28.05} = 4920$ ✓ - running ✓

Claims dredged = B+R Conc.

Surface Area = 2.46 Acres.

Avg Width Cut = 220 Ft.

✓ Length ✓ = 520 Ft.

$\frac{11912}{9} = 107208$ $\frac{11614}{9} = 104526$ $\frac{11763}{9} = 105867$

No Writeoff

Dredge N° 4

July - 149

Dredge operated 31 days

✓ dug 664 hrs. 15 min. = 27.68 days = 89.28% ✓

✓ lost 79 hrs. 45 - = 3.32 ✓ = 10.72% ✓

Avg. Hgt. Bank = 13.4 Ft.

✓ Depth = 24.4 ✓

Total ✓ = 37.8 ✓

Surface

$$\begin{array}{r} 2651 \\ 1416 \\ \hline 1235 \end{array} \quad \begin{array}{r} 3883 \\ 2651 \\ \hline 1232 \end{array}$$

$$1234 \times 17.57 = 21681.99 \text{ yds.}$$

Bedrock

$$\begin{array}{r} 5053 \\ 3868 \\ \hline 1185 \end{array} \quad \begin{array}{r} 6237 \\ 5053 \\ \hline 1184 \end{array}$$

$$1185 \times 17.57 = 20821$$

$$2(42502)$$

$$\text{Avg Area} = 21251$$

$$21251 \times \frac{37.8}{3} = 267763 \text{ Cu. Yds.}$$

$$\frac{267763}{31} = 8638 \text{ Cu. Yds. per day elapsed time.}$$

$$\frac{267763}{27.68} = 9674 \text{ running time.}$$

Claims Dredged = B+R. Conc. ✓

Surface Area = 4.48 Acres.

Avg. Width Cut = 270 Ft. ✓

✓ Length ✓ = 170 ✓

$$\begin{array}{r} 21681 \\ 18912 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 20821 \\ 187389 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 21251 \\ 191259 \\ \hline 9 \end{array}$$

No Write off

Dredge N: A

August 1949

Dredge operated 31 days

✓ dug 686 hrs. 0 min = 28.58 days = 92.207,
 ✓ lost 58 " 0 " = 2.42 " = 7.807.

Avg Hgt. Bank = 19.5 ft.

Depth = 22.1 "

Total " = 41.6 "

Surface $\begin{array}{r} 0287 \\ 8640 \\ \hline 1647 \end{array}$ $\begin{array}{r} 1920 \\ 0287 \\ \hline 1633 \end{array}$ $1640 \times 17.57 = 28814$ Sq. Yds.

Bedrock $\begin{array}{r} 3534 \\ 1929 \\ \hline 1605 \end{array}$ $\begin{array}{r} 5737 \\ 3534 \\ \hline 1603 \end{array}$ $1604 \times 17.57 = 28182$ ✓
 $\sqrt{56996}$

Avg Area = 28498 ✓

$\frac{28498 \times 41.6}{3} = 395172$ Cu. Yds.

$\frac{395172}{31} = 12747$ Cu. Yds. per day elapsed time

$\frac{395172}{28.58} = 13817$ " " running ✓

Claims dredged = 8 per Conc.
 Surface Area = 5.95 Acres.
 Avg Width Cut = 180 ft.
 Length = 1450 ✓

$\begin{array}{r} 28814 \\ 9 \\ \hline 259326 \end{array}$ $\begin{array}{r} 28182 \\ 9 \\ \hline 253638 \end{array}$ $\begin{array}{r} 28498 \\ 9 \\ \hline 256482 \end{array}$

Thawing Writeoff

3/4 of Block 10

= 83835 Cu. Yds.

Dredge No 4

Sept 1949

Dredge operated 30 days

Aug 641 hrs. 20 min = 26.72 days - 89.07 T.
lost 78 - 40 - = 3.28 - 10.93 T.

Avg Net Bank = 14.2 Ft.

Depth = 23.5

Total = 37.7

Surface - $\begin{array}{r} 2539 \\ 0615 \\ \hline 1924 \end{array}$ $\begin{array}{r} 4477 \\ 2539 \\ \hline 1938 \end{array}$ $1931 \times 17.57 = 33928$ Sq. Yds.

Bedrock - $\begin{array}{r} 6335 \\ 4462 \\ \hline 1873 \end{array}$ $\begin{array}{r} 8218 \\ 6335 \\ \hline 1883 \end{array}$ $1878 \times 17.57 = \frac{32996}{66924}$

Avg Area = 33462

$\frac{11154}{33462 \times 37.7} = 420505$ Cu. Yds

$\frac{420505}{30} = 14017$ Cu. Yds. per day elapsed time

$\frac{420505}{21.72} = 15737$ - running -

Claims dredged - B&R Conc.
Surface Area - 70 Acres
Avg. width cut - 320 Ft.
Depth - 700

$\begin{array}{r} 33928 \\ 9 \\ \hline 305352 \end{array}$

$\begin{array}{r} 32996 \\ 9 \\ \hline 296964 \end{array}$

$\begin{array}{r} 33462 \\ 9 \\ \hline 301158 \end{array}$

Thawing Witeoff

Block #10

Remainder

= 27946 CuYds.

No Stripping Witeoff

Dredge No 4

Oct. 49

Dredge operated 31 days (28 days for depth)

✓ dug 59 hrs. 25 min = 24.68 days = 79.632

✓ lost 151 - 35 - = 6.32 - = 20.372

Avg Hgt. Bank = 13.2 Ft.

✓ Depth = 23.2 ✓

Total ✓ = 36.4 ✓

Surface $\begin{array}{r} 2633 \\ 1281 \\ 1352 \end{array}$ $\begin{array}{r} 3980 \\ 2633 \\ 1347 \end{array}$

1350 x 17.57

= 23720 Sq Yds.

Bedrock $\begin{array}{r} 5275 \\ 3973 \\ 1302 \end{array}$ $\begin{array}{r} 6584 \\ 5275 \\ 1309 \end{array}$

1306 x 17.57

= 22946
24666

Avg Area = 23333 ✓

$\frac{23333 \times 36.4}{3} = 283107$ Cu. Yds.

$\frac{283107}{31} = 9132$ Cu. Yds. per day elapsed time

$\frac{283107}{24.68} = 11471$ ✓ running ✓

Claims Dredged = B + R Cong.

Surface Area = 4.90 Acres

Avg. Width Cut = 390 Ft.

✓ Length ✓ = 570 ✓

$\begin{array}{r} 23720 \\ 9 \\ \hline 213480 \end{array}$

$\begin{array}{r} 22946 \\ 9 \\ \hline 206514 \end{array}$

$\begin{array}{r} 23333 \\ 9 \\ \hline 209997 \end{array}$

No. Witcoff

Dredge N^o 4

Nov. 1949

Shut down Nov. 22 - 9 AM

Dredge operated 21 days (17 days for Depth)

✓ dug 38 hrs 45 min. = 15.91 days = 75.74%

✓ lost 122 - 15 ✓ = 5.09 ✓ = 24.26%

Avg Hgt Bank = 13.7 Ft. ✓

✓ Depth = 22.3 ✓

Total ✓ = 36.0 ✓

Surface

2010 3024
1507 2519
503 ✓ 505 ✓

504 X 17.57 = 8855 sq. yds.

Bedrock

4452 4933
3974 4452
478 ✓ 481 ✓

480 X 17.57 = 8434 ✓

2 | 17289 ✓

Avg. Area = 8645 ✓

8645 X ^{12.0}_{36.0} = 103740 cu. yds.

3

103740 = 4940 cu. yds. per day elapsed time
21

103740 = 6520 running
15.91

Claims Dredged = B+R. Conc. ✓

Surface Area = 1.83 Acres. ✓

Avg Width Cut = 370 Ft. ✓

✓ Length ✓ = 225 ✓

8855 8434 8645
9 9 9
79695 ✓ 75906 ✓ 77805 ✓

Block 11

Thaw Write off

$$\begin{array}{r} 5258 \\ 5178 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 5336 \\ 5258 \\ \hline 78 \end{array}$$

$$\begin{array}{r} 5302 \\ 5231 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 5375 \\ 5302 \\ \hline 73 \end{array}$$

$$79 \times 17.57 \times 9.7 = 13430 \text{ CuYds.}$$

$$72 \times 17.57 \times 9.7 = 12240$$

$$\text{Total} = 25670$$

Dredge No 4

May 1950

Started May 4 - 3:30 pm.

Dredge operated 28 days (27 for dredging)

dug 601 hrs 30 min - 25.06 days = 89.51%

lost 70 - 30 - 2.94 - 10.49%

Avg Hgt. Bank = 6.9 ft.

Depth = 16.4

Total = 33.3

Surface $\frac{2381}{1782} \frac{2985}{2381} \frac{604}{604}$ $603 \times 17.57 = 10595$ 5.415

Bedrock $\frac{4123}{3551} \frac{4699}{4123} \frac{576}{576}$ $574 \times 17.57 = 10085$
 $\sqrt{20680}$

Avg Area = 10340

$\frac{10340 \times 33.3}{3} = 114774$ Cu. Yds

$\frac{114774}{28} = 4099$ Cu. Yds per day elapsed time

$\frac{114774}{25.06} = 4580$ running

Pond Elev = 1247.5
 Claims dredged - B & R Conc
 Surface Area = 2.19 Acres.
 Avg Width = 450 Ft.
 Length = 220

$\frac{10595}{9} = 95355$ $\frac{10085}{9} = 90765$ $\frac{10340}{9} = 93060$

Thawing Whiteoff

Block #11 Remainder

= 38228 CVs

Block #12

9836

9678

158 ✓

9989

9836

153 ✓

(29.1)

$$\begin{array}{r} 52 \\ 156 \times 17.57 \times 29.1 \\ \hline 3 \end{array}$$

= 26572 ✓

Total = 64800

Dredge N: 4

June 1950

Dredge operated 30 days

✓ dug 671 hr. 0 min = 27.96 days = 93.192 ✓
 ✓ lost 49 - 0 ✓ = 2.04 - = 6.81 ✓

Avg. Hgt Bank = 9.2 Ft.

✓ Depth = 25.6 -

Total - 34.8 ✓

Surface $\begin{array}{r} 7515 \\ 6700 \\ \hline 815 \end{array}$ $\begin{array}{r} 8333 \\ 7515 \\ \hline 818 \end{array}$ $817 \times 17.57 = 14355 \text{ Sq. Yds.}$

Bedrock $\begin{array}{r} 9071 \\ 8298 \\ \hline 773 \end{array}$ $\begin{array}{r} 9853 \\ 9071 \\ \hline 782 \end{array}$ $778 \times 17.57 = 13669$ ✓
 ✓ $\begin{array}{r} 28024 \end{array}$

Avg Area = 14012 ✓

$14012 \times \frac{11.6}{3} = 162539 \text{ Cu. Yds.}$

$\frac{162539}{30} = 5418 \text{ Cu. Yds. per day elapsed Time}$

$\frac{162539}{27.96} = 5813$ - running -

Pond Elev - 1242.5
 Claims dredged - B & R Conc.
 Surface Area - 2.96 Acres.
 Avg Width Cut - 475 ft.
 Length - 260 -

$\begin{array}{r} 14355 \\ 9 \\ \hline 129195 \end{array}$ $\begin{array}{r} 13669 \\ 9 \\ \hline 123021 \end{array}$ $\begin{array}{r} 14012 \\ 9 \\ \hline 126108 \end{array}$

Repeat Stock No. 7415

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