

Dr. N^o 9

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SPECIFYING RULING AND THICKNESS

Dredge No 9

Thaw W/O

Block # 104 - Remainder = 123074 C.Y.s

- # 105 - = 36471 -

- # 106 - $\frac{240 \times 15 \times 22.1}{27}$ = 10804 ✓

Total = 170353 ✓

Strip W/O

X² 673-674 - Remainder = 17666 C.Y.s

674-675 - = 17700 ✓

675-676 - = 19893 ✓

676-677 - $\frac{1}{2}$ ✓ = 10124 ✓

Total = 65383 ✓

Dredge No 9

September 1965

Dredge operated 30 days

 $\checkmark$ dug 668 hrs. 30 min = 27.85 days = 92.85%
 $\checkmark$ lost 51 - 30 - = 2.15 - = 7.15%

Avg Hgt Bank = 2.7 Ft

Depth = 17.8 -

Total = 20.5 -

(3.6) F.G. 111 hrs. 30 min

$$\text{Surface} - \frac{2475}{1768} \quad \frac{3180}{2475} \\ \hline 707 \quad 705$$

$$706 \times 17.67 = 12475 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{3838}{3169} \quad \frac{4109}{3838} \\ \hline 669 \quad 671$$

$$670 \times 17.67 = \frac{11839}{24314}$$

$$\text{Avg Area} = 12157$$

$$12157 \times \frac{6.83}{3} = 83032 \text{ Cu. Yds.}$$

$$\frac{83032}{30} = 2768 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{83032}{27.85} = 2981 \text{ - running -}$$

Claims dredged - 18-19 Hb. Disc.
 Surface area - 2.58 Acres
 Avg width - 290 Ft.
 $\checkmark$ Length - 385 -

$$\begin{array}{r} 12475 \\ 9 \\ \hline 112275 \end{array} \quad \begin{array}{r} 11839 \\ 9 \\ \hline 106551 \end{array} \quad \begin{array}{r} 12157 \\ 9 \\ \hline 109413 \end{array}$$

Thaw W/O

$$\text{Block \#106} \quad - \quad 330 \times \underline{230} \times 2.1 \quad = \quad 62121 \text{ Cu Yds.}$$

22.1

$$\checkmark \quad \text{\#107} \quad = \quad 40 \times \underline{310} \times 2.14 \quad = \quad 9828 \quad -$$

21.4

$$\text{Total} = 71953 \quad -$$

Strip W/O

$$\checkmark \quad 676-677 \text{ - Remainder} \quad - \quad 10124 \text{ Cu Yds.}$$

$$677-678 \quad - \quad = 18967 \quad -$$

$$678-679 \quad - \quad = 19904 \quad -$$

$$679-680 \quad 3/4 \quad - \quad = \underline{16170} \quad \checkmark$$

$$\text{Total} = 65165 \quad \checkmark$$

Dredge No 9

October 1964

Dredge operated 31 days

✓ dug 561 Hrs. 5 min = 23.41 days = 23.41

✓ lost 182 - 05 - = 7.59 - = 24.47 %

Avg Hgt Bank - 3.6 Ft

Depth - 16.4 -

Total - 20.0 -

(3.8) F. B. 92 Hrs. 30 min

$$\text{Surface} - \begin{array}{r} 0723 \\ 0183 \\ \hline 540 \end{array} \quad \begin{array}{r} 1269 \\ 0723 \\ \hline 546 \end{array} \quad \begin{array}{r} 1815 \\ 1269 \\ \hline 546 \end{array} \quad 546 \times 17.67 = 9648 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \begin{array}{r} 2320 \\ 1809 \\ \hline 511 \end{array} \quad \begin{array}{r} 2830 \\ 2320 \\ \hline 510 \end{array} \quad 511 \times 17.67 = 9029$$

$$18677$$

$$\text{Avg Area} = 9339$$

$$\begin{array}{r} 3113 \\ 9339 \times 20.0 \\ \hline 3 \end{array} = 62260 \text{ Cu Yds.}$$

$$\frac{62260}{31} = 2008 \text{ Cu Yds. per day elapsed time}$$

$$\frac{62260}{23.41} = 2660 \text{ - running -}$$

Claims dredged - 19 Mh. Sulph.
 Surface area - 1.97 Acres.
 Avg width - 265 Ft
 Length - 330

$$\begin{array}{r} 9648 \\ 9 \\ \hline 86832 \end{array} \quad \begin{array}{r} 9029 \\ 9 \\ \hline 81261 \end{array} \quad \begin{array}{r} 9339 \\ 9 \\ \hline 84051 \end{array}$$

Dr. #9.

November 1961-
Shutdown Nov 3- 8.00 AM

Estimated ydgc = 5200 Cu. Yds.

Thaw W/O

$$\text{Block \#106} - \frac{200 \times 30 \times 22.1}{27} = 4911 \text{ Cu Yds.}$$

$$\text{Block \#107} - \frac{60 \times 25 \times 21.4}{27} = 1189$$

$$\text{Total} = \frac{1189}{6100}$$

Strip W/O

$$\text{X's 679-680} - \text{Remainder}$$

$$= 5389 \text{ Cu Yds.}$$

Dredge #1-9

May 1966

Started bailing ice May 7- 8:00 AM.
 dredging 12- 8:00

Dredge operated 25 days - 20 days for depth

dug 449 Hrs. or min = 18.71 days = 74.85%

lost 150 - 55 = 6.79 = 25.15%

Avg Hat Bank = 4.0 Ft.

Depth = 17.4

(3.01)

F.G. = 45 Hrs.

Total = 21.4

$$\text{Surfaces} - \frac{2699}{43} - \frac{2742}{43} = 760 \text{ sq. ft.}$$

$$43 \times 17.67$$

$$= 760 \text{ sq. ft.}$$

$$\text{Bedrock} - \frac{2781}{43} - \frac{2874}{43} = 777$$

$$43 \times 17.67$$

$$= 777$$

$$\text{Avg Area} = \frac{1537}{769}$$

$$769 \times \frac{7.13}{3} = 5483 \text{ Cu. Yds.}$$

$$\frac{5483}{25} = 219 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{5483}{18.71} = 293 \text{ running}$$

Claims dredged - 19 Hb. 50ph.

Surfaces area - 0.16 Acres.

Avg Width - 265 Ft.

Length - 35

$$\frac{760}{9} = 6840$$

$$\frac{777}{9} = 6993$$

$$\frac{769}{9} = 6921$$

Thaw W/O

Block - #106 - Remainder = 13013 Cu.Yds.

✓ # 107 - ✓ = 27007 -

Total = 40020

Strip W/O

x'2 680-681 - Remainder = 20263 Cu.Yds.

681-682 - ✓ = 19090 -

Total = 39353

Dredge #10 9

June 1966

Dredge operated 30 days

Aug 670 hrs 20 min = 27.93 days = 93.10 %
 Lost 49 - 40 - = 2.07 - = 6.90 %

Avg Hgt Bank - 4.4 ft.

Depth - 16.3

total - 10.7

(2.9)

F.G. = 393 Hrs. 30 min

Surfaces - $\frac{5428}{5078} \frac{5776}{5428}$ $\frac{348}{348}$ $349 \times 17.67 = 6167$ 37 Yds.

Bedrock - $\frac{6090}{5774} \frac{6410}{6090}$ $\frac{320}{320}$ $318 \times 17.67 = 5619$
 $\frac{11786}{11786}$

Avg Area = 5893

$5893 \times \frac{6.9}{3} = 4066$ Cu. Yds.

$\frac{4066}{30} = 1355$ Cu. Yds. per day elapsed time

$\frac{4066}{27.93} = 1455$ running -

Claims dredged - 19-20 Alb Disa

Surface area - 1.27 Acres

Avg. width - 220 ft

Length - 210

$\frac{6167}{9}$
 55503

$\frac{5619}{9}$
 50571

$\frac{5893}{9}$
 53037

thaw w/o

$$\text{Block \# 108} - \frac{305 \times 185 \times 23.9}{27}$$

$$= 49946 \text{ Cu Yds}$$

$$\text{\# 109} = \frac{280 \times 110 \times 23.0}{27}$$

$$= 26237$$

$$\text{Total} = 76183$$

Strip w/o

$$\text{\# 682 - 683}$$

$$- \text{Remainder}$$

$$= 20001 \text{ Cu Yds}$$

$$683 - 684$$

$$- \quad -$$

$$= 19141$$

$$684 - 685$$

$$- \quad -$$

$$= 17288$$

$$\text{Total} = 56430$$

Dredge No 9

July 1966

#9 Depth Gauge registers 2' too deep

Deduct 2' from "Depth below" as shown on Dr. Sheets

Dredge operated 31 days

$$\begin{array}{l} \text{Aug } 686 \text{ hrs. } 05 \text{ min} = 28.59 \text{ days} = 92.22\% \\ \text{lost } 57 - 55 = 2.41 = 7.78\% \end{array}$$

Avg Hgt Bank = 4.5 ft. (3.0) 1-G 275 Hrs.

Depth = 16.8

Total = 21.3 - 2' = 19.3 ft. ✓

$$\begin{array}{r} \text{Surface} - \frac{0117}{9597} \\ \hline 520 \end{array} \quad \frac{0651}{0117} \quad \frac{1173}{0651} \quad 521 \times 17.67 = 9206 \text{ Sq. Yds.}$$

$$\begin{array}{r} \text{Bedrock} - \frac{1665}{1172} \\ \hline 493 \end{array} \quad \frac{2149}{1665} \quad \frac{489 \times 17.67 = 8640}{17846}$$

$$\text{Avg Area} = 89.23 \text{ ✓}$$

$$\frac{89.23 \times 19.3}{3} = 57375 \text{ Cu. Yds.}$$

$$\frac{57375}{31} = 1851 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{57375}{28.59} = 2006 \text{ running -}$$

Claims dredged - 20 + 22 Above Sulph.
 Surface area - 1.90 Acres
 Avg width - 300 Ft.
 Length - 300 -

$$\begin{array}{r} 9206 \\ 9 \\ \hline 82854 \end{array} \quad \begin{array}{r} 8640 \\ 9 \\ \hline 77760 \end{array} \quad \begin{array}{r} 8923 \\ 9 \\ \hline 80307 \end{array}$$

Thaw w/o

Block #108. Remainder = 41054 Cuyds.

✓ #109 - = 64437 -

Total = 105491 -

Strip w/o

Xⁿ 685-686 - Remainder = 17081 Cu Yds.

686-687 - = 17022 -

687-688 - 2/3 - = 10404 -

Total = 44507 -

$$\begin{array}{r} 3 \overline{) 15607} \\ \underline{5202} \\ 10404 \end{array}$$

Dredge No 9.

August 1966

Reduce depth 1.5 Ft. from 1st 21st incl ✓

Dredge operated 31 days

dug 689 Hrs. 15 min = 28.72 days = 92.64 %

lost 54 - 45 - = 2.28 - = 7.36 %

Avg Net Bank = 4.7 Ft.

Depth = 17.8 - (2.9) F.G. = 15.4 Hrs 35 min

Total - = 22.5 - ✓

$$\text{Surface} - \frac{5631}{5122} \frac{6123}{5631} \\ \frac{509}{492}$$

$$500 \times 17.67 = 8835 \text{ Sq Yds}$$

$$\text{Bedrock} - \frac{6600}{6124} \frac{7072}{6600} \\ \frac{476}{472}$$

$$474 \times 17.67 = 8375$$

$$= 17210$$

$$\text{Avg Area} = 8605$$

$$8605 \times \frac{7.5}{22.5} = 64537 \text{ Cu. Yds.}$$

$$\frac{64537}{31} = 2082 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{64537}{28.72} = 2247 \text{ - running -}$$

Claims dredged - 22 Ab. Sulph.
 Surface Area - 1.83 Acres
 Avg width - 290 Ft
 Length - 270 -

$$\begin{array}{r} 8835 \\ 9 \\ \hline 79515 \end{array} \quad \begin{array}{r} 8375 \\ 9 \\ \hline 75375 \end{array} \quad \begin{array}{r} 8605 \\ 9 \\ \hline 77445 \end{array}$$

Thru W/O

Block #110	- Remainder	= 98277 Cu Vds
✓ #111	-	= 64461
222		
Total		= 162738

Strip W/O

✓ 687-688	- Remainder	= 5203 Cu Vds
688-689	-	= 14830
689-690	-	= 16881
690-691	-	= 17697
691-692	✓	= 16578
692-693	1/2 ✓	= 8303
Total		= 79496

Dredge No 9

September 1966

Dredge operated 30 days

- dug 671 hrs. 40 min = 27.99 days = 93.29 %

- lost 48 - 20 - 2.01 - 6.71 %

Avg Net Bank = 3.9 ft.

- Depth - 18.2 -

Total - 22.1 - ✓

(36) F.G. - 81 hrs. 10 min

$$\text{Surface} - \frac{4249}{3520} \quad \frac{4974}{4249}$$

$$\frac{729}{729} \quad \frac{729}{729}$$

$$727 \times 17.67 = 12846 \text{ Cu Yds.}$$

$$\text{Bedrock} - \frac{5665}{4979} \quad \frac{6346}{5665}$$

$$\frac{686}{686} \quad \frac{681}{681}$$

$$684 \times 17.67 = 12084$$

$$+ 12930$$

$$\text{Avg Area} = 12465$$

$$\frac{12155}{12465 \times 22.1} = 91825 \text{ Cu Yds.}$$

$$\frac{91825}{30} = 3061 \text{ Cu Yds. per day elapsed time}$$

$$\frac{91825}{27.99} = 3281 \text{ running}$$

Claims dredged - 22-23 App. Dis. Sulph
 Surface area - 2.65 Acres
 Avg. width - 260 ft.
 Length - 490

$$\frac{12846}{9}$$

$$115614$$

$$\frac{12084}{9}$$

$$108756$$

$$\frac{12465}{9}$$

$$112185$$

Thaw W/O

$$\text{Block \#112} - \frac{280 \times 300 \times 6.1}{27} = 81200 \text{ Cu Yds.} \checkmark$$

Strip W/O

$$\text{XN} \cdot 692-693 \text{ Remainder} = 4800 \cdot 8304 \text{ Cu Yds}$$

$$693-694 \quad - \quad = 14785 \quad -$$

$$694-695 \quad - \quad = 15785 \quad -$$

$$695-696 \quad \frac{1}{2} \quad - \quad = 8937 \quad -$$

$$\text{Total} = 47811 \quad - \quad \checkmark$$

Thaw W/O - 1966 Season

$$\begin{array}{r} \text{O/H Jan. 1st 1966} \\ \text{Charged to \#9 1966 Season} \end{array} \quad \begin{array}{r} - 1191701 \text{ Cu Yds.} \\ - 471732 \quad - \\ \hline \end{array}$$

$$\text{Balance of Inventory} = 719969 \quad \checkmark$$

Strip W/O - 1966 Season

$$\begin{array}{r} \text{O/H Jan. 1st 1966} \\ \text{Charged to \#9 1966 Season} \end{array} \quad \begin{array}{r} - 709192 \text{ Cu Yds.} \\ - 272986 \quad - \\ \hline \end{array}$$

$$\text{Balance of Inventory} = 436206 \quad \checkmark$$

$$\begin{array}{r} \text{Strip Inv less ground passed up} = 356862 \text{ Cu Yds.} \\ \text{Thaw} \quad - \quad - \quad - \quad - \quad = 564027 \quad - \end{array}$$

Dredge No 9

October 1966

Finished dredging Oct 14 - 12 noon
 Started digging shelf.

Dredge operated 13 days

✓ dug 293 Hrs 0 min = 12.21 days = 93.91 %

✓ lost 19 - 0 - = 0.79 - = 6.09 %

Avg Nat Bank = 4.3 ft.

✓ Depth = 16.8

Total = 21.1 ✓ (3.0) F.G. → Hrs 30 min

$$\text{Surface} - \frac{0170}{9740} \frac{0612}{428} \frac{1040}{0612} \quad 429 \times 17.67 = 7580 \text{ Sq. Yds.}$$

$$\text{Bedrock} - \frac{1433}{1025} \frac{1823}{1433} \frac{222}{1823} \frac{2625}{2221} \quad 406 \times 17.67 = 7173$$

$$\text{Avg Area} = 7377$$

$$\frac{2459}{7377 \times 21.1} = 51885 \text{ Cu. Yds.}$$

$$\frac{51885}{13} = 3991 \text{ Cu. Yds. per day elapsed time}$$

$$\frac{51885}{12.21} = 4249 \text{ - running -}$$

Claims dredged - 23 + 24 Below Seab.

Surface area - 1.57 Acres ✓

Avg width - 240 ft.

- Length - 295 ✓

$$\begin{array}{r} 7580 \\ 9 \\ \hline 68220 \end{array} \quad \begin{array}{r} 7173 \\ 9 \\ \hline 64557 \end{array} \quad \begin{array}{r} 7377 \\ 9 \\ \hline 66393 \end{array}$$

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