

**PIONEER IRON COMPANY,**  
**The Cleveland-Chiffs Iron Co.**

PIONEER FURNACE.

GRAY ACETATE COST SHEET.

Plant No. \_\_\_\_\_

MONTH OF YEAR 1904

RECEIVED

JAN 27 1905

PIONEER IRON COMPANY

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# PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

**FORMALDEHYDE**  
~~Refined Alcohol~~ Cost Sheet.

Month of \_\_\_\_\_ Year \_\_\_\_\_ 1904

Gallons Produced, 1 Month \_\_\_\_\_  
**Lbs.**  
 Gallons Produced, \_\_\_\_\_ Months **70659**

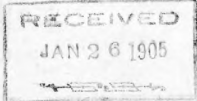
|   | LABOR         | SUPPLIES      | TOTAL          | COST PER <sup>Lb.</sup> <del>Gallon</del> |            |
|---|---------------|---------------|----------------|---|------------|
|   |               |               |                | 1 Mo.                                     | 12 Mos.    |
| <b>GENERAL EXPENSES</b>                                   |               |               |                |   |            |
| Office Expense  | 740 13        | 282 52        | 1022 65        |   | 014        |
| Fire Insurance  |               |               |                |   |            |
| Analysis  | 118 45        | 297 26        | 415 71         |   | 006        |
| Taxes   |               |               |                |   |            |
| <b>MAINTENANCE</b> Total                                  | <b>858 58</b> | <b>579 78</b> | <b>1438 36</b> |   | <b>020</b> |
| Tanks and Stills  |               |               |                |   |            |
| Condensers  |               |               |                |   |            |
| Machinery   |               |               |                |   |            |
| Boilers <b>Piping</b>                                     | 4 94          | 2 80          | 7 74           |   | 000        |
| Fans and Pulleys  |               |               |                |   |            |
| Smoke Mains   |               |               |                |   |            |
| Buildings   |               |               |                |   |            |
| Water Supply  |               |               |                |   |            |
| Cleaning Up   |               |               |                |   |            |
| Total   | 4 94          | 2 80          | 7 74           |   | 000        |
| <b>OPERATING</b>  |               |               |                |   |            |
| Superintendent  |               |               |                |   |            |
| Stillmen  | 689 67        | 2 00          | 691 67         |   | 010        |
| Engineers   | 43 63         |               | 43 63          |   | 001        |
| Firemen   | 14 88         |               | 14 88          |   | 000        |
| Machinery   | 30 36         | 24 65         | 55 01          |   | 001        |
| Boilers   |               |               |                |   |            |
| Fuel  | 2 40          | 264 65        | 267 05         |   | 004        |
| Electric Light  | 76 98         | 26 12         | 103 10         |   | 002        |
| Lime  |               |               |                |   |            |
| Chemicals   |               |               |                |   |            |
| <b>Alcohol</b>  |               | 6545 00       | 6545 00        |   | 092        |
| Total   | 857 92        | 6862 42       | 7720 34        |   | 110        |
| Cost of Production  | 1721 44       | 7445 00       | 9166 44        |   | 130        |
| <b>DEPRECIATION</b>                                       |               |               |                |   |            |
| Construction Account                                      |               | 1654 65       | 1654 65        |   | 023        |
| Improvement Account                                       |               |               |                |   |            |
| Total   |               | 1654 65       | 1654 65        |   | 023        |
| Total Cost  | 1721 44       | 9099 65       | 10821 09       |   | 153        |
| <b>LOADING AND SWITCHING</b>                              |               |               |                |   |            |
| <del>Pkgs.</del> <b>65646</b> <del>Lbs.</del> <b>Lbs.</b> |               | 428 90        | 428 90         |   | 006        |
| Loading   | 18 00         | 5 40          | 23 40          |   | 000        |
| Switching   | 47            | 43            | 90             |   | 000        |
| Total   | 18 47         | 434 73        | 453 20         |   | 006        |
| Total Cost on Cars 1 Month                                |               |               |                |   |            |
| Cost per <sup>Lb.</sup> <del>Gallon</del> "               |               |               |                |   |            |
| Total Cost on Cars _____ Months                           | 1739 91       | 9534 38       | 11274 29       |   |            |
| Cost per <sup>Lb.</sup> <del>Gallon</del> "               |               |               |                |   | 159        |
| Construction Account not sunk off                         |               |               | 20410 39       |   |            |
| Improvement " " " "                                       |               |               |                |   |            |
| Smoke Rec'd from _____ Cords, 1 Mo.                       |               |               |                |   |            |
| " " " " _____ Mos.  |               |               |                |   |            |
| Yield of Alcohol per Cord of Wood                         |               |               |                |   |            |
| " Pyroligneous Acid per cord of wood                      |               |               |                |   |            |

# PIONEER IRON CO.

PIONEER FURNACE NO. 2.

**FORMALDEHYDE  
ALCOHOL COST SHEET.**

Month of YEAR 1904



*(Mirrored/Reversed text from the reverse side of the page)*

10 20 30 40 50 60 70 80 90 100

10 20 30 40 50 60 70 80 90 100

600  
70  
670

600  
300  
300

810

PIONEER IRON COMPANY.  
Pioneer Furnace No. 2

COMPARATIVE STATEMENT OF WOOD COST SHEETS FOR 1903 AND 1904.

|                       | MUNISING EAST       |                     |        |           |      |       |               |      | MUNISING WEST       |       |                     |      |       |       |               |      | EBEN                |                     |        |          |      |       |               |  |
|-----------------------|---------------------|---------------------|--------|-----------|------|-------|---------------|------|---------------------|-------|---------------------|------|-------|-------|---------------|------|---------------------|---------------------|--------|----------|------|-------|---------------|--|
|                       |                     |                     | Amount |           |      |       | Cost Per Cord |      |                     |       | Amount              |      |       |       | Cost Per Cord |      |                     |                     | Amount |          |      |       | Cost Per Cord |  |
|                       | 1903                | 1904                | 1903   | 1904      | 1903 | 1904  | 1903          | 1904 | 1903                | 1904  | 1903                | 1904 | 1903  | 1904  | 1903          | 1904 | 1903                | 1904                | 1903   | 1904     | 1903 | 1904  |               |  |
| Cords Produced        | 26441 $\frac{1}{2}$ | 44635 $\frac{7}{8}$ |        |           |      |       |               |      | 23508 $\frac{3}{8}$ | 14290 |                     |      |       |       |               |      | 15086 $\frac{1}{8}$ | 14675               |        |          |      |       |               |  |
| Chopping              |                     |                     | 23504  | 36 33339  | 19   | 892   | 748           |      |                     | 20051 | 69 10993            | 43   | 891   | 770   |               |      |                     |                     | 13304  | 41 11101 | 59   | 882   | 758           |  |
| Stumpage              |                     |                     | 2644   | 08 4463   | 59   | 100   | 100           |      |                     | 2350  | 90 1615             | 69   | 100   | 113   |               |      |                     |                     | 2182   | 97 2625  | 01   | 145   | 179           |  |
| Foreman & Measuring   |                     |                     | 637    | 38 1027   | 28   | 024   | 023           |      |                     | 633   | 77 499              | 03   | 027   | 035   |               |      |                     |                     | 259    | 27 371   | 78   | 017   | 025           |  |
| Traveling Expense     |                     |                     | 298    | 40 237    | 40   | 011   | 005           |      |                     | 300   | 76 195              | 22   | 013   | 013   |               |      |                     |                     | 193    | 69 188   | 49   | 013   | 012           |  |
| Exchange              |                     |                     | 42     | 65 42     | 45   | 002   | 001           |      |                     | 34    | 00 19               | 10   | 002   | 001   |               |      |                     |                     | 12     | 00 12    | 90   | 001   | 001           |  |
| General Expense       |                     |                     | 329    | 05 193    | 92   | 018   | 004           |      |                     | 386   | 53 144              | 47   | 016   | 010   |               |      |                     |                     | 179    | 53 135   | 98   | 012   | 009           |  |
| Fire Protection       |                     |                     | 90     | 78 40     | 80   | 003   | 001           |      |                     |       |                     |      |       |       |               |      |                     |                     |        |          |      |       |               |  |
| Superintendent        |                     |                     | 664    | 60 919    | 15   | 025   | 020           |      |                     | 664   | 58 406              | 41   | 028   | 028   |               |      |                     |                     | 320    | 82 324   | 44   | 021   | 022           |  |
| Taxes                 |                     |                     | 822    | 36 1057   | 53   | 031   | 023           |      |                     | 958   | 69 640              | 01   | 041   | 045   |               |      |                     |                     |        |          | 1366 | 86    | 093           |  |
| Spurs & Barns         |                     |                     | 1821   | 77 9381   | 48   | 069   | 210           |      |                     | 1392  | 17 788              | 82   | 059   | 055   |               |      |                     |                     | 1000   | 40 588   | 40   | 066   | 040           |  |
| Total Cost at Stump   |                     |                     | 30945  | 43 50693  | 80   | 1 170 | 1 135         |      |                     | 27673 | 09 15302            | 18   | 1 177 | 1 070 |               |      |                     |                     | 17453  | 09 16715 | 45   | 1 157 | 1 139         |  |
| Cords Shipped         | 44240 $\frac{3}{8}$ | 53360 $\frac{1}{2}$ |        |           |      |       |               |      |                     | 23101 | 26129 $\frac{1}{2}$ |      |       |       |               |      | 9871 $\frac{3}{8}$  | 14034 $\frac{3}{8}$ |        |          |      |       |               |  |
| Cost of Wood at Stump |                     |                     | 42007  | 67 55051  | 47   | 952   | 1 032         |      |                     | 22750 | 34 23846            | 70   | 987   | 1 104 |               |      |                     |                     | 11312  | 57 15781 | 39   | 1 146 | 1 124         |  |
| Hauling & Loading     |                     |                     | 31905  | 22 37854  | 62   | 721   | 710           |      |                     | 21347 | 31 22425            | 32   | 922   | 858   |               |      |                     |                     | 9456   | 64 11921 | 74   | 958   | 850           |  |
| Freight               |                     |                     | 22120  | 35 26543  | 62   | 500   | 500           |      |                     | 11524 | 92 13064            | 59   | 500   | 500   |               |      |                     |                     | 4935   | 86 7017  | 34   | 500   | 500           |  |
| Swg. in furnace yard  | #                   |                     | 1097   | 27 1137   | 25   | 026   | 021           |      | #                   | 524   | 31 540              | 23   | 027   | 020   |               |      | #                   |                     |        |          | 196  | 87    | 022           |  |
| Piling in yard        | ##                  |                     | 688    | 34 30     | 83   | 190   | 180           |      | ##                  | 327   | 16 181              | 74   | 179   | 180   |               |      | ##                  |                     | 102    | 60 465   | 84   | 300   | 180           |  |
| Total Cost at Furnace |                     |                     | 97912  | 85 120617 | 79   | 2 211 | 2 260         |      |                     | 56474 | 04 65058            | 58   | 2 114 | 2 489 |               |      |                     |                     | 25807  | 67 35383 | 18   | 2 614 | 2 521         |  |

REMARKS:

\* Switching charge figured on actual amount switched. No charge for switching at Carp Furnace.

## 1903 3614 $\frac{3}{8}$  Cords  
## 1904 171 $\frac{1}{2}$  Cords

## 1903-1776 $\frac{1}{2}$  Cords  
## 1904-1010 Cords

## 1903 342 Cords  
## 1904 2588 Cords

1903  
Total cords shipped 44388 $\frac{3}{8}$   
Shipped to Gladstone 148  
Shipped to Marquette 44240 $\frac{3}{8}$

1903  
Total cords shipped 26709 $\frac{1}{2}$   
Shipped to Gladstone 3608 $\frac{3}{8}$   
Shipped to Marquette 23101

Actual cost to load & haul .710  
Keeping horses 011  
Cost as above 721

Cost to load and haul .917  
Keeping horses 005  
Cost as above 922

# PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

## COMPARATIVE CHARCOAL COST SHEET.

For the years of 1903 and 1904

| ACCOUNT                | MONTH OF <u>1903</u> 190     |        |    | Mos. ENDING <u>1904</u> 190 |                 |        |    |                  |
|------------------------|------------------------------|--------|----|-----------------------------|-----------------|--------|----|------------------|
|                        | BUSHEL                       | AMOUNT |    | Cost<br>per Bus.            | BUSHEL          | AMOUNT |    | Cost<br>per Bus. |
| PIONEER FURNACE KILNS— | 2158665                      |        |    |                             | 3673355         |        |    |                  |
| Wood                   |                              | 119218 | 05 | 0552                        |                 | 216350 | 49 | 0589             |
| Loading from Yard      |                              | 76     | 00 | 0000                        |                 | 489    | 25 | 0001             |
| Packing                |                              |        |    |                             |                 | #176   | 05 | 0001             |
| Kiln Tending           | } John Mc Call<br>Contractor |        |    |                             |                 | 21675  | 92 | 0059             |
| Taking out Breeze      |                              | 14031  | 31 | 0065                        |                 |        |    |                  |
| Whitewashing           |                              |        |    |                             |                 |        |    |                  |
| Cleaning out Kilns     |                              |        |    |                             |                 |        |    |                  |
| Depreciation           |                              | 5396   | 66 | 0025                        |                 | 9183   | 39 | 0025             |
| Repairs                |                              | 471    | 14 | 0002                        |                 | 704    | 77 | 0002             |
| Braizeman              |                              | 221    | 35 | 0001                        |                 | 672    | 86 | 0001             |
| Total                  |                              | 139414 | 51 | 0645                        |                 | 249252 | 73 | 0678             |
| Average yield per cord | 41 <sup>5</sup>              |        |    |                             | 40 <sup>3</sup> |        |    |                  |
| Cords Carbonized 1 Mo  |                              |        |    |                             |                 |        |    |                  |
| Cords Carbonized Mos   |                              |        |    |                             |                 |        |    |                  |
| " " per kiln           | 69 <sup>0</sup>              |        |    |                             | 70 <sup>5</sup> |        |    |                  |
| FROM JOBBERS—          | 30142                        |        |    |                             |                 |        |    |                  |
| Coal                   |                              | 3653   | 10 | 1200                        |                 |        |    |                  |
| Freight                |                              | 531    | 20 | 0197                        |                 |        |    |                  |
| Switching              |                              | 12     | 94 | 0004                        |                 |        |    |                  |
| General Expense        |                              | 44     | 42 | 0017                        |                 |        |    |                  |
| Insurance on Cars      |                              |        |    |                             |                 |        |    |                  |
| Demurage on cars.      |                              | 49     | 40 | 0018                        |                 |        |    |                  |
| Total                  |                              | 4291   | 06 | 1436                        |                 |        |    |                  |
| Grand Total            | 2188807                      | 143705 | 57 | 0656                        |                 |        |    |                  |

#Expense of kiln Foreman from Gladstone to instruct colliers at Marquette.

Average bushels of coal per kiln  
year 1904. 2847Bushels

84.60  
8670  
6020

# PIONEER IRON COMPANY.

PIONEER FURNACE No. 2.

Cost of Loading and Hauling **Eben** **Wood,** **Year** **1904**

LOADED AND HAULED THIS MONTH, \_\_\_\_\_ CORDS.

LOADED AND HAULED **9** MONTHS, **14112** CORDS.

|                                     | LABOR       |           | SUPPLIES    |           | TOTAL        |           | COST PER CORD |            |
|-------------------------------------|-------------|-----------|-------------|-----------|--------------|-----------|---------------|------------|
|                                     |             |           |             |           |              |           | 1 Month       | 9 Mos.     |
| <b>Teaming—</b>                     |             |           |             |           |              |           |               |            |
| Teamsters,                          | 2957        | 55        |             |           | 2957         | 55        |               | 210        |
| Swampers,                           | 3888        | 35        | 18          | 67        | 3907         | 02        |               | 277        |
| Car Loaders,                        | 1090        | 41        | 12          | 29        | 1102         | 70        |               | 078        |
| Foreman,                            | 318         | 09        |             |           | 318          | 09        |               | 023        |
| <b>TOTAL,</b>                       | <b>8254</b> | <b>40</b> | <b>30</b>   | <b>96</b> | <b>8285</b>  | <b>36</b> |               | <b>588</b> |
| <b>Roads—</b>                       |             |           |             |           |              |           |               |            |
| Making and Maintaining,             | 19          | 51        |             |           | 19           | 51        |               | 000        |
| <b>TOTAL,</b>                       | <b>19</b>   | <b>51</b> |             |           | <b>19</b>    | <b>51</b> |               | <b>000</b> |
| <b>Barn—</b>                        |             |           |             |           |              |           |               |            |
| Hay,                                |             |           | 688         | 37        | 688          | 37        |               | 049        |
| Oats,                               |             |           | 1351        | 51        | 1351         | 51        |               | 097        |
| Feed and Bran                       |             |           | 45          | 46        | 45           | 46        |               | 003        |
| Shoeing and Shoes                   | 290         | 00        | 35          | 54        | 325          | 54        |               | 023        |
| Oil and Grease                      |             |           | 14          | 08        | 14           | 08        |               | 001        |
| Horse Medicine                      |             |           | 3           | 10        | 3            | 10        |               | 000        |
| Barn Boss,                          | 205         | 00        | 9           | 00        | 214          | 00        |               | 015        |
| <b>TOTAL,</b>                       | <b>495</b>  | <b>00</b> | <b>2147</b> | <b>06</b> | <b>2642</b>  | <b>06</b> |               | <b>188</b> |
| <b>Repairs—</b>                     |             |           |             |           |              |           |               |            |
| Wagons and Drays,                   |             |           | 2           | 65        | 2            | 65        |               | 000        |
| Sleighs,                            |             |           | 3           | 03        | 3            | 03        |               | 000        |
| Harness,                            |             |           | 24          | 68        | 24           | 68        |               | 002        |
| <b>Buildings</b>                    |             |           | 29          | 55        | 29           | 55        |               | 002        |
| <b>TOTAL,</b>                       |             |           | <b>59</b>   | <b>91</b> | <b>59</b>    | <b>91</b> |               | <b>004</b> |
| <b>COST TO LOAD,</b>                | <b>8768</b> | <b>91</b> | <b>2237</b> | <b>93</b> | <b>11006</b> | <b>84</b> |               | <b>780</b> |
| <b>Miscellaneous—</b>               |             |           |             |           |              |           |               |            |
| Depreciation,                       |             |           | 980         | 63        | 980          | 63        |               | 069        |
| Moving Equipment,                   |             |           | 12          | 50        | 12           | 50        |               | 001        |
| <b>TOTAL,</b>                       |             |           | <b>993</b>  | <b>13</b> | <b>993</b>   | <b>13</b> |               | <b>070</b> |
| Total Cost on Cars 1 Month,         |             |           |             |           |              |           |               |            |
| Total Cost on Cars <b>9</b> Months, | <b>8768</b> | <b>91</b> | <b>3231</b> | <b>06</b> | <b>11999</b> | <b>97</b> |               | <b>850</b> |

Remarks:

# Pioneer Iron Company.

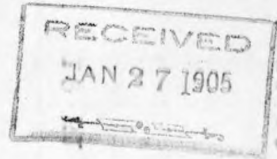
PIONEER FURNACE NO. 2.

## Loading and Hauling Wood

At EBEN

Month of \_\_\_\_\_ Year 1904.

H. Niedecken Co., Mfg. Stationers, Milwaukee. 87,934.



| Station | Quantity | Rate    | Total   |
|---------|----------|---------|---------|
| 10 01   | 500 00   | 0 00    | 500 00  |
| 10 02   | 2 70     | 14 09   | 37 98   |
| 10 03   | 22 24    | 372 84  | 817 08  |
| 10 04   | 42 46    | 42 46   | 1797 21 |
| 10 05   | 688 54   | 1321 21 | 2389 24 |
| 10 06   | 19 21    | 19 21   | 703     |
| 10 07   | 19 21    | 19 21   | 703     |
| 10 08   | 19 21    | 19 21   | 703     |
| 10 09   | 19 21    | 19 21   | 703     |
| 10 10   | 19 21    | 19 21   | 703     |
| 10 11   | 19 21    | 19 21   | 703     |
| 10 12   | 19 21    | 19 21   | 703     |
| 10 13   | 19 21    | 19 21   | 703     |
| 10 14   | 19 21    | 19 21   | 703     |
| 10 15   | 19 21    | 19 21   | 703     |
| 10 16   | 19 21    | 19 21   | 703     |
| 10 17   | 19 21    | 19 21   | 703     |
| 10 18   | 19 21    | 19 21   | 703     |
| 10 19   | 19 21    | 19 21   | 703     |
| 10 20   | 19 21    | 19 21   | 703     |
| 10 21   | 19 21    | 19 21   | 703     |
| 10 22   | 19 21    | 19 21   | 703     |
| 10 23   | 19 21    | 19 21   | 703     |
| 10 24   | 19 21    | 19 21   | 703     |
| 10 25   | 19 21    | 19 21   | 703     |
| 10 26   | 19 21    | 19 21   | 703     |
| 10 27   | 19 21    | 19 21   | 703     |
| 10 28   | 19 21    | 19 21   | 703     |
| 10 29   | 19 21    | 19 21   | 703     |
| 10 30   | 19 21    | 19 21   | 703     |
| 10 31   | 19 21    | 19 21   | 703     |

| Station | Quantity | Rate  | Total |
|---------|----------|-------|-------|
| 10 32   | 19 21    | 19 21 | 703   |
| 10 33   | 19 21    | 19 21 | 703   |
| 10 34   | 19 21    | 19 21 | 703   |
| 10 35   | 19 21    | 19 21 | 703   |
| 10 36   | 19 21    | 19 21 | 703   |
| 10 37   | 19 21    | 19 21 | 703   |
| 10 38   | 19 21    | 19 21 | 703   |
| 10 39   | 19 21    | 19 21 | 703   |
| 10 40   | 19 21    | 19 21 | 703   |
| 10 41   | 19 21    | 19 21 | 703   |
| 10 42   | 19 21    | 19 21 | 703   |
| 10 43   | 19 21    | 19 21 | 703   |
| 10 44   | 19 21    | 19 21 | 703   |
| 10 45   | 19 21    | 19 21 | 703   |
| 10 46   | 19 21    | 19 21 | 703   |
| 10 47   | 19 21    | 19 21 | 703   |
| 10 48   | 19 21    | 19 21 | 703   |
| 10 49   | 19 21    | 19 21 | 703   |
| 10 50   | 19 21    | 19 21 | 703   |
| 10 51   | 19 21    | 19 21 | 703   |
| 10 52   | 19 21    | 19 21 | 703   |
| 10 53   | 19 21    | 19 21 | 703   |
| 10 54   | 19 21    | 19 21 | 703   |
| 10 55   | 19 21    | 19 21 | 703   |
| 10 56   | 19 21    | 19 21 | 703   |
| 10 57   | 19 21    | 19 21 | 703   |
| 10 58   | 19 21    | 19 21 | 703   |
| 10 59   | 19 21    | 19 21 | 703   |
| 10 60   | 19 21    | 19 21 | 703   |

## PIONEER IRON COMPANY.

PIONEER FURNACE No. 2.

Cost of Loading and Hauling Munising East Wood, Year 1904

LOADED AND HAULED THIS MONTH, \_\_\_\_\_ CORDS.

LOADED AND HAULED **12** MONTHS, **53360 $\frac{1}{4}$**  CORDS.

|                                      | LABOR        |           | SUPPLIES     |           | TOTAL        |           | COST PER CORD |            |
|--------------------------------------|--------------|-----------|--------------|-----------|--------------|-----------|---------------|------------|
|                                      |              |           |              |           |              |           | Year          |            |
|                                      |              |           |              |           |              |           | 1 Month       | ..... Mos. |
| <b>Teaming—</b>                      |              |           |              |           |              |           |               |            |
| Teamsters,                           | 9812         | 79        | 53           | 11        | 9865         | 90        |               | 185        |
| Swampers,                            | 6202         | 87        | 72           | 17        | 6275         | 04        |               | 118        |
| Car Loaders,                         | 3451         | 76        | 26           | 43        | 3478         | 19        |               | 065        |
| Foreman,                             | 602          | 17        |              |           | 602          | 17        |               | 011        |
| <b>TOTAL,</b>                        | <b>20069</b> | <b>59</b> | <b>151</b>   | <b>71</b> | <b>20221</b> | <b>30</b> |               | <b>379</b> |
| <b>Roads—</b>                        |              |           |              |           |              |           |               |            |
| Making and Maintaining,              | 6312         | 68        |              |           | 6312         | 68        |               | 118        |
| <b>TOTAL,</b>                        | <b>6312</b>  | <b>68</b> |              |           | <b>6312</b>  | <b>68</b> |               | <b>118</b> |
| <b>Barn—</b>                         |              |           |              |           |              |           |               |            |
| Hay,                                 |              |           | 2164         | 10        | 2164         | 10        |               | 041        |
| Oats,                                |              |           | 4192         | 07        | 4192         | 07        |               | 079        |
| Feed and Bran                        |              |           | 70           | 23        | 70           | 23        |               | 001        |
| Shoeing and Shoes                    | 587          | 59        | 71           | 56        | 659          | 15        |               | 013        |
| Oil and Grease                       |              |           | 4            | 11        | 4            | 11        |               | 000        |
| Horse Medicine                       |              |           | 27           | 71        | 27           | 71        |               | 000        |
| Barn Boss,                           | 698          | 96        | 4            | 34        | 703          | 30        |               | 013        |
| <b>TOTAL,</b>                        | <b>1286</b>  | <b>55</b> | <b>6534</b>  | <b>12</b> | <b>7820</b>  | <b>67</b> |               | <b>147</b> |
| <b>Repairs— Well</b>                 | <b>70</b>    | <b>78</b> | <b>61</b>    | <b>58</b> | <b>132</b>   | <b>36</b> |               | <b>002</b> |
| Wagons and Drays,                    |              |           | 19           | 14        | 19           | 14        |               | 000        |
| Sleighs,                             |              |           | 31           | 70        | 31           | 70        |               | 001        |
| Harness,                             |              |           | 265          | 37        | 265          | 37        |               | 005        |
| <b>Buildings</b>                     | <b>39</b>    | <b>15</b> | <b>223</b>   | <b>05</b> | <b>262</b>   | <b>20</b> |               | <b>005</b> |
| <b>TOTAL,</b>                        | <b>109</b>   | <b>93</b> | <b>600</b>   | <b>84</b> | <b>710</b>   | <b>77</b> |               | <b>013</b> |
| <b>COST TO LOAD,</b>                 | <b>27778</b> | <b>75</b> | <b>7286</b>  | <b>67</b> | <b>35065</b> | <b>42</b> |               | <b>657</b> |
| <b>Miscellaneous—</b>                |              |           |              |           |              |           |               |            |
| Depreciation,                        |              |           | 2969         | 50        | 2969         | 50        |               | 056        |
| Moving Equipment,                    |              |           | 22           | 50        | 22           | 50        |               | 000        |
| <b>General Expense</b>               |              |           | 12           | 50        | 12           | 50        |               | 000        |
| <b>TOTAL,</b>                        |              |           | <b>3004</b>  | <b>50</b> | <b>3004</b>  | <b>50</b> |               | <b>056</b> |
| <b>Credit</b>                        |              |           | <b>215</b>   | <b>30</b> | <b>215</b>   | <b>30</b> |               | <b>004</b> |
| Total Cost on Cars 1 Month,          |              |           |              |           |              |           |               |            |
| Total Cost on Cars <b>12</b> Months, | <b>27778</b> | <b>75</b> | <b>10075</b> | <b>87</b> | <b>37854</b> | <b>62</b> |               | <b>709</b> |

6  
Remarks:



Pioneer Iron Company.

PIONEER FURNACE NO. 2.

Loading and Hauling Wood

At MUNISING EAST

Month of YEAR 1904

H. Niedecken Co., Mfg. Stationers, Milwaukee. 87,934.



Faint, mirrored text from the reverse side of the page, appearing as bleed-through. It includes various numbers and possibly names, but is largely illegible due to the low contrast and orientation.

# PIONEER IRON COMPANY.

PIONEER FURNACE No. 2.

Cost of Loading and Hauling Munising West Wood, Year 1904

LOADED AND HAULED THIS MONTH, \_\_\_\_\_ CORDS.  
 LOADED AND HAULED **12** MONTHS, **26129 $\frac{1}{4}$**  CORDS.

|                                      | LABOR        |           | SUPPLIES    |           | TOTAL        |           | COST PER CORD |            |
|--------------------------------------|--------------|-----------|-------------|-----------|--------------|-----------|---------------|------------|
|                                      |              |           |             |           |              |           | 1 Month       | 12 Mos.    |
| <b>Teaming—</b>                      |              |           |             |           |              |           |               |            |
| Teamsters,                           | 5541         | 30        | 41          | 55        | 5582         | 85        |               | 214        |
| Swampers,                            | 6245         | 58        | 24          | 58        | 6270         | 16        |               | 240        |
| Car Loaders,                         | 1614         | 41        | 16          | 94        | 1631         | 35        |               | 063        |
| Foreman,                             | 564          | 50        |             |           | 564          | 50        |               | 021        |
| <b>TOTAL,</b>                        | <b>13965</b> | <b>79</b> | <b>83</b>   | <b>07</b> | <b>14048</b> | <b>86</b> |               | <b>538</b> |
| <b>Roads—</b>                        |              |           |             |           |              |           |               |            |
| Making and Maintaining,              | 45           | 84        |             |           | 45           | 84        |               | 001        |
| <b>TOTAL,</b>                        | <b>45</b>    | <b>84</b> |             |           | <b>45</b>    | <b>84</b> |               | <b>001</b> |
| <b>Barn—</b>                         |              |           |             |           |              |           |               |            |
| Hay,                                 |              |           | 2075        | 15        | 2075         | 15        |               | 080        |
| Oats,                                |              |           | 2671        | 10        | 2671         | 10        |               | 102        |
| Feed and Bran                        |              |           | 63          | 47        | 63           | 47        |               | 002        |
| Shoeing and Shoes                    | 669          | 26        | 47          | 70        | 716          | 96        |               | 027        |
| Oil and Grease                       |              |           |             |           |              |           |               |            |
| Horse Medicine                       |              |           | 27          | 73        | 27           | 73        |               | 001        |
| Barn Boss,                           | 495          | 50        | 3           | 90        | 499          | 40        |               | 020        |
| <b>TOTAL,</b>                        | <b>1164</b>  | <b>76</b> | <b>4889</b> | <b>05</b> | <b>6053</b>  | <b>81</b> |               | <b>232</b> |
| <b>Repairs—</b>                      |              |           |             |           |              |           |               |            |
| Wagons and Drays,                    |              |           | 39          | 64        | 39           | 64        |               | 001        |
| Sleighs,                             |              |           | 24          | 39        | 24           | 39        |               | 001        |
| Harness,                             | 18           | 40        | 79          | 29        | 97           | 69        |               | 004        |
| <b>Buildings</b>                     | 14           | 18        | 57          | 47        | 71           | 65        |               | 003        |
| <b>TOTAL,</b>                        | <b>32</b>    | <b>58</b> | <b>200</b>  | <b>79</b> | <b>233</b>   | <b>37</b> |               | <b>009</b> |
| <b>COST TO LOAD,</b>                 | <b>15208</b> | <b>97</b> | <b>5172</b> | <b>91</b> | <b>20381</b> | <b>88</b> |               | <b>780</b> |
| <b>Miscellaneous—</b>                |              |           |             |           |              |           |               |            |
| Depreciation,                        |              |           | 2043        | 54        | 2043         | 54        |               | 078        |
| Moving Equipment,                    | 3            | 20        | 12          | 50        | 15           | 70        |               | 001        |
| <b>General Expense</b>               |              |           | 12          | 50        | 12           | 50        |               | 000        |
| <b>TOTAL,</b>                        | <b>3</b>     | <b>20</b> | <b>2068</b> | <b>54</b> | <b>2071</b>  | <b>74</b> |               | <b>079</b> |
| <b>Credit</b>                        |              |           | 28          | 30        | 28           | 30        |               | 001        |
| Total Cost on Cars 1 Month,          |              |           |             |           |              |           |               |            |
| Total Cost on Cars <b>12</b> Months, | <b>15212</b> | <b>17</b> | <b>7213</b> | <b>15</b> | <b>22425</b> | <b>32</b> |               | <b>858</b> |

Remarks:

# Pioneer Iron Company.

PIONEER FURNACE No. 2.

## Loading and Hauling Wood

At Munising West

Month of Year 1904

H. Niedecken Co., Mfg. Stationers, Milwaukee. 87,934.

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## PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.

Pig Iron Stock Report for the Week Ending **NOVEMBER 30TH., 1905.**

H. Niedecken Co., Mfg. Stationers, Milwaukee - 91,010

| PIG IRON GRADES          | PRODUCTION   |                    |                 |                 |                           |                                    |                         |                       | SHIPMENTS                                  |              |                    |                 |                 |                           |                           |                  |
|--------------------------|--------------|--------------------|-----------------|-----------------|---------------------------|------------------------------------|-------------------------|-----------------------|--|--------------|--------------------|-----------------|-----------------|---------------------------|---------------------------|------------------|
|                          | Current Week | Previous for Month | Total for Month | Previous Months | Over and Short for Season | Total Produced Since Dec. 1st 1903 | Transferred to and From | On Hand Dec. 1st 1903 | Total Produced and in Stock Since Dec. 1st | Current Week | Previous for Month | Total for Month | Previous Months | Over and Short for Season | Total Since Dec. 1st 1903 | Balance in Stock |
| A Scotch                 |              | 82                 | 82              | 319             |                           | 401                                |                         | 215                   | 616  |              | 124                | 124             | 448             |                           | 572                       | 44               |
| B Scotch                 |              | 51                 | 51              | 305             | 1                         | 355                                |                         | 202                   | 557  | 25           | 40                 | 65              | 450             | 1                         | 514                       | 43               |
| C Scotch                 |              | 134                | 134             | 736             | 6                         | 876                                |                         | 14                    | 890  | 29           | 171                | 200             | 580             | 6                         | 786                       | 104              |
| No. 1 Special            | 7            | 269                | 276             | 1774            | 18                        | 2032                               |                         | 275                   | 2307                                       |              | 592                | 592             | 1681            | 18                        | 2255                      | 52               |
| No. 1 Foundry            | 55           | 281                | 336             | 4721            | 21                        | 5036                               |                         | 288                   | 5324                                       | 45           | 438                | 483             | 4641            | 21                        | 5103                      | 221              |
| No. 2 Low                | 117          | 185                | 302             | 5260            | 62                        | 5500                               |                         | 933                   | 6433                                       | 55           | 1828               | 1883            | 3118            | 62                        | 4939                      | 1494             |
| No. 2 High               | 279          | 253                | 532             | 7079            | 2                         | 7609                               |                         | 1092                  | 8701                                       | 282          | 1524               | 1806            | 1893            | 2                         | 3697                      | 5004             |
| No. 3 Low                | 266          | 270                | 536             | 8059            | 3                         | 8592                               |                         | 1133                  | 9725                                       | 144          | 823                | 967             | 2741            | 3                         | 3705                      | 6020             |
| No. 3 High               | 133          | 145                | 268             | 2009            |                           | 2277                               |                         | 613                   | 2890                                       | 48           | 773                | 821             | 857             |                           | 1678                      | 1212             |
| No. 3 Malleable          | 18           | 8                  | 26              | 1082            |                           | 1108                               |                         | 84                    | 1192                                       |              | 238                | 238             |                 |                           | 238                       | 954              |
| No. 4 Low                | 60           | 113                | 173             | 1572            |                           | 1745                               |                         | 216                   | 1961                                       | 226          | 164                | 390             | 705             |                           | 1095                      | 866              |
| No. 4 High               | 26           | 143                | 169             | 978             |                           | 1147                               |                         | 229                   | 1376                                       | 22           | 28                 | 50              | 1021            |                           | 1071                      | 305              |
| No. 5                    | 39           | 179                | 218             | 1079            |                           | 1297                               |                         | 118                   | 1415                                       | 299          | 194                | 493             | 737             |                           | 1230                      | 185              |
| No. 6                    | 47           | 151                | 198             | 381             | 4                         | 575                                |                         | 401                   | 976  | 30           | 57                 | 87              | 643             | 4                         | 726                       | 250              |
| Spotted                  |              |                    |                 |                 |                           |                                    |                         |                       |  |              |                    |                 |                 |                           |                           |                  |
| Castings                 |              |                    |                 |                 |                           |                                    |                         |                       |  |              |                    |                 |                 |                           |                           |                  |
| Bessemer Special         |              |                    |                 | 2003            |                           | 2003                               |                         |                       | 2003                                       |              |                    |                 | 2003            |                           | 2003                      | 000              |
| Bessemer                 |              |                    |                 | 162             |                           | 162                                |                         |                       | 162  |              |                    |                 |                 |                           |                           | 162              |
| Bessemer                 |              |                    |                 |                 |                           |                                    |                         |                       |  |              |                    |                 |                 |                           |                           |                  |
| Spec. High Phos.         |              |                    |                 | 1083            |                           | 1083                               |                         |                       | 1083                                       |              |                    |                 | 1083            |                           | 1083                      | 000              |
| High Phos.               |              |                    |                 | 201             |                           | 201                                |                         |                       | 201  |              |                    |                 |                 |                           |                           | 201              |
| Spec. Middle Grade Phos. |              |                    |                 | 84              |                           | 84                                 |                         |                       | 84   |              |                    |                 | 84              |                           | 84                        | 00               |
| Middle Grade Phos.       |              |                    |                 | 68              |                           | 68                                 |                         |                       | 68   |              |                    |                 |                 |                           |                           | 68               |
| <b>TOTAL</b>             | <b>1037</b>  | <b>2264</b>        | <b>3301</b>     | <b>38955</b>    | <b>105</b>                | <b>42151</b>                       |                         | <b>5813</b>           | <b>47964</b>                               | <b>1205</b>  | <b>6994</b>        | <b>8199</b>     | <b>22685</b>    | <b>105</b>                | <b>30779</b>              | <b>17185</b>     |
| Total shipped by rail    |              |                    |                 |                 |                           |                                    |                         |                       |  | 705          |                    |                 |                 |                           | 8242                      |                  |
| Total shipped by vessel  |              |                    |                 |                 |                           |                                    |                         |                       |  | 500          |                    |                 |                 |                           | 22537                     |                  |

PIONEER IRON COMPANY

PIONEER FURNACE No. 2

Fig Iron Stock Report for the Week Ending Nov. 30th, 1905

PIONEER IRON CO.

Pioneer Furnace No. 2.

Pig Iron Stock Report

FOR THE WEEK ENDING Nov. 30th, 1905.

| Grade  | Quantity | Value | Weight | Grade  | Quantity | Value | Weight |
|--------|----------|-------|--------|--------|----------|-------|--------|
| No. 1  | 100      | 1000  | 1000   | No. 1  | 100      | 1000  | 1000   |
| No. 2  | 200      | 2000  | 2000   | No. 2  | 200      | 2000  | 2000   |
| No. 3  | 300      | 3000  | 3000   | No. 3  | 300      | 3000  | 3000   |
| No. 4  | 400      | 4000  | 4000   | No. 4  | 400      | 4000  | 4000   |
| No. 5  | 500      | 5000  | 5000   | No. 5  | 500      | 5000  | 5000   |
| No. 6  | 600      | 6000  | 6000   | No. 6  | 600      | 6000  | 6000   |
| No. 7  | 700      | 7000  | 7000   | No. 7  | 700      | 7000  | 7000   |
| No. 8  | 800      | 8000  | 8000   | No. 8  | 800      | 8000  | 8000   |
| No. 9  | 900      | 9000  | 9000   | No. 9  | 900      | 9000  | 9000   |
| No. 10 | 1000     | 10000 | 10000  | No. 10 | 1000     | 10000 | 10000  |
| No. 11 | 1100     | 11000 | 11000  | No. 11 | 1100     | 11000 | 11000  |
| No. 12 | 1200     | 12000 | 12000  | No. 12 | 1200     | 12000 | 12000  |
| No. 13 | 1300     | 13000 | 13000  | No. 13 | 1300     | 13000 | 13000  |
| No. 14 | 1400     | 14000 | 14000  | No. 14 | 1400     | 14000 | 14000  |
| No. 15 | 1500     | 15000 | 15000  | No. 15 | 1500     | 15000 | 15000  |
| No. 16 | 1600     | 16000 | 16000  | No. 16 | 1600     | 16000 | 16000  |
| No. 17 | 1700     | 17000 | 17000  | No. 17 | 1700     | 17000 | 17000  |
| No. 18 | 1800     | 18000 | 18000  | No. 18 | 1800     | 18000 | 18000  |
| No. 19 | 1900     | 19000 | 19000  | No. 19 | 1900     | 19000 | 19000  |
| No. 20 | 2000     | 20000 | 20000  | No. 20 | 2000     | 20000 | 20000  |
| No. 21 | 2100     | 21000 | 21000  | No. 21 | 2100     | 21000 | 21000  |
| No. 22 | 2200     | 22000 | 22000  | No. 22 | 2200     | 22000 | 22000  |
| No. 23 | 2300     | 23000 | 23000  | No. 23 | 2300     | 23000 | 23000  |
| No. 24 | 2400     | 24000 | 24000  | No. 24 | 2400     | 24000 | 24000  |
| No. 25 | 2500     | 25000 | 25000  | No. 25 | 2500     | 25000 | 25000  |
| No. 26 | 2600     | 26000 | 26000  | No. 26 | 2600     | 26000 | 26000  |
| No. 27 | 2700     | 27000 | 27000  | No. 27 | 2700     | 27000 | 27000  |
| No. 28 | 2800     | 28000 | 28000  | No. 28 | 2800     | 28000 | 28000  |
| No. 29 | 2900     | 29000 | 29000  | No. 29 | 2900     | 29000 | 29000  |
| No. 30 | 3000     | 30000 | 30000  | No. 30 | 3000     | 30000 | 30000  |

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PIONEER IRON COMPANY.  
PIONEER FURNACE NO. 2.

*Corrected Copy,*

Stock Report for Month Ending **November 30,** 190 **4**

H. Niedecke Co., Mfg. Stationers, Milwaukee, WI 53108

|                          | PRODUCED OR RECEIVED. |                 |                           |                              |                         |            | SHIPPED OR USED. |                 |                           |                            |                 |  |
|--------------------------|-----------------------|-----------------|---------------------------|------------------------------|-------------------------|------------|------------------|-----------------|---------------------------|----------------------------|-----------------|--|
|                          | Total for Month       | Previous Months | Over and Short for Season | Total from Dec. 1st, 1903... | On Hand Dec. 1st, 1903. | TOTAL      | Total for Month  | Previous Months | Over and Short for Season | Total from Dec. 1st, 1903. | Balance on Hand |  |
| <b>ORE:</b>              |                       |                 |                           |                              |                         |            |                  |                 |                           |                            |                 |  |
| Lake                     | 6179.140              | 59995.1350      |                           | 66174.1490                   | 998.                    | 67172.1490 | 6058.2200        | 60685.1530      |                           | 66744.1490                 | 428.            |  |
| Cliffs Shaft             | 296.1010              | 6355.1200       |                           | 6651.2210                    | 421.                    | 7072.2210  | 482.160          | 6447.2050       |                           | 6929.2210                  | 143.            |  |
| Salisbury                |                       |                 |                           |                              | 345.992                 | 345.992    | 147.2062         | 197.1170        |                           | 345.992                    |                 |  |
| Lucy                     |                       | 67.220          |                           | 67.220                       | 100.                    | 167.220    |                  | 167.220         |                           | 167.220                    |                 |  |
| Bedford-Cambridge        |                       | 779.1290        |                           | 779.1290                     |                         | 779.1290   |                  | 779.1290        |                           | 779.1290                   |                 |  |
| Lake Bess.               |                       | 2909.1390       |                           | 2909.1390                    |                         | 2909.1390  |                  | 2909.1390       |                           | 2909.1390                  |                 |  |
| Abbotsford               |                       | 1164.140        |                           | 1164.140                     |                         | 1164.140   |                  | 1164.140        |                           | 1164.140                   |                 |  |
| Clinton                  |                       | 997.2120        |                           | 997.2120                     |                         | 997.2120   |                  | 997.2120        |                           | 997.2120                   |                 |  |
| Imperial                 |                       | 726.920         |                           | 726.920                      |                         | 726.920    |                  | 726.920         |                           | 726.920                    |                 |  |
| Total.                   | 6475.1150             | 72995.1910      |                           | 79471.820                    | 1864.992                | 81335.1812 | 6688.2182        | 74075.1870      |                           | 80764.1812                 | 571.            |  |
| <b>WOOD:</b>             |                       |                 |                           |                              |                         |            |                  |                 |                           |                            |                 |  |
| WOOD CAMPS—Munising East | 2245 1/8              | 42390 6/8       |                           | 44635 7/8                    | 66849 1/8               | 111485     | 4871             | 48489 2/8       |                           | 53360 2/8                  | 58124 6/8       |  |
| “ “ Munising West        | 3841 5/8              | 10448 3/8       |                           | 14290                        | 38375 2/8               | 52665 2/8  | 2540             | 29058 6/8       |                           | 31598 6/8                  | 21066 4/8       |  |
| “ “ Eben                 | 1404 6/8              | 18270 2/8       |                           | 14675                        | 5564 5/8                | 20239 5/8  |                  | 8565            |                           | 8565                       | 11674 5/8       |  |
| Along Munising Ry. Co.   |                       | 23 2/8          |                           | 23 2/8                       | 5567 3/8                | 5590 5/8   | 209 6/8          | 2473 6/8        |                           | 2683 4/8                   | 2907 1/8        |  |
| Received from Jobbers    | 497 6/8               | 11659 2/8       |                           | 12157                        |                         | 12157      | 497 6/8          | 11659 2/8       |                           | 12157                      |                 |  |
| Total Wood Camps         | 7989 2/8              | 77791 7/8       |                           | 85781 1/8                    | 116356 3/8              | 202137 4/8 | 8118 4/8         | 100246          |                           | 108364 4/8                 | 93773           |  |
| <b>FURNACE YARDS:</b>    |                       |                 |                           |                              |                         |            |                  |                 |                           |                            |                 |  |
| Pioneer Furnace No. 2    |                       | 4062 4/8        |                           | 4062 4/8                     | 3550                    | 7612 4/8   | 22               | 2398 6/8        |                           | 2420 6/8                   | 5191 6/8        |  |
| Carp River Furnace       |                       |                 |                           |                              | 342                     | 342        |                  | 342             |                           | 342                        |                 |  |
| Total,                   |                       | 4062 4/8        |                           | 4062 4/8                     | 3892                    | 7954 4/8   | 22               | 2740 6/8        |                           | 2762 6/8                   | 5191 6/8        |  |
| Total Camps and Yards.   | 7989 2/8              | 81854 3/8       |                           | 89843 5/8                    | 120248 3/8              | 210092     | 8140 4/8         | 102986 6/8      |                           | 111127 2/8                 | 98964 6/8       |  |
| <b>KILNS:</b>            |                       |                 |                           |                              |                         |            |                  |                 |                           |                            |                 |  |
| Pioneer Furnace No. 2    | 8070 6/8              | 83061 6/8       |                           | 91132 4/8                    | 6164                    | 97296 4/8  | 7738 4/8         | 83265           |                           | 91003 4/8                  | 6293            |  |
| Carp River Furnace       |                       | 15482 6/8       |                           | 15482 6/8                    | 2609 1/8                | 18091 7/8  |                  | 16523 6/8       |                           | 16523 6/8                  | 1568 1/8        |  |
| Total,                   | 8070 6/8              | 98544 4/8       |                           | 106615 2/8                   | 8773 1/8                | 115388 3/8 | 7738 4/8         | 99738 6/8       |                           | 107527 2/8                 | 7861 1/8        |  |
| Total,                   | 16060                 | 180398 7/8      |                           | 196458 7/8                   | 129021 4/8              | 325480 3/8 | 15379            | 202775 4/8      |                           | 218654 4/8                 | 106825 7/8      |  |
| Charcoal Bushels         | 301926                | 3371429         |                           | 3673355                      |                         | 3673355    | 301926           | 3371429         |                           | 3673355                    |                 |  |
| Limestone Tons           | 81.1210               | 312.1520        |                           | 394.490                      | 1535                    | 1929.490   | 115.305          | 1163.185        |                           | 1278.490                   | 651.            |  |
| Alcohol Gallons          | 33257 1/2             | 340053          | 1568 1/2                  | 371742                       | 13699                   | 385441     | 33711            | 338965 1/2      | 1568 1/2                  | 371108                     | 14333           |  |
| Acetate of Lime Pounds   | 29313                 | 260759          | 252                       | 289820                       |                         | 289820     | 38929            | 251144          | 252                       | 289820                     |                 |  |
| Formaldehyde Pounds      | 25741                 | 44918           |                           | 70659                        |                         | 70659      | 23491            | 42311           |                           | 65802                      | 4857            |  |

P I O N E E R I R O N C O M P A N Y.  
Pioneer Furnace No. 2

DETAIL OF LABOR STATEMENT FOR 1904.

|                            |                      | Men                               | Days           | Earnings         |           |
|----------------------------|----------------------|-----------------------------------|----------------|------------------|-----------|
| <b>FURNACE:</b>            |                      |                                   |                |                  |           |
|                            | Not Including Office | 65 $\frac{2}{3}$                  | 23599 2        | 44966            | 27        |
|                            | Office               | 3 $\frac{1}{3}$                   | 1234 3         | 6125             | 54        |
|                            | <b>Total</b>         | <b>69</b>                         | <b>24833 5</b> | <b>51091</b>     | <b>81</b> |
| <b>CHEMICAL PLANT:</b>     |                      |                                   |                |                  |           |
|                            | Not Including Office | 31 $\frac{1}{4}$                  | 10303 2        | 19809            | 19        |
|                            | Office               | 2                                 | 730 3          | 3557             | 46        |
|                            | <b>Total</b>         | <b>33<math>\frac{1}{4}</math></b> | <b>11033 5</b> | <b>23366</b>     | <b>65</b> |
| <b>ACETATE PLANT:</b>      |                      |                                   |                |                  |           |
|                            | Not Including Office | $\frac{1}{2}$                     | 50 9           | 86               | 56        |
| <b>FORMALDEHYDE PLANT:</b> |                      |                                   |                |                  |           |
|                            | Not Including Office | 2 $\frac{3}{8}$                   | 621 9          | 1002             | 91        |
|                            | Office               | $\frac{5}{8}$                     | 146 6          | 737              | 00        |
|                            | <b>Total</b>         | <b>3</b>                          | <b>768 5</b>   | <b>1739</b>      | <b>91</b> |
| <b>KILNS:</b>              |                      |                                   |                |                  |           |
|                            | No Office Charged    | 32                                | 10355 2        | 21878            | 21        |
| <b>MISCELLANEOUS:</b>      |                      | 17                                | 6132 0         | 11591            | 28        |
| <b>NEW CONSTRUCTION:</b>   |                      |                                   |                |                  |           |
|                            | Furnace              | 1 $\frac{1}{4}$                   | 219 7          | 454              | 31        |
|                            | Chemical Plant       | 1 $\frac{1}{2}$                   | 223 9          | 479              | 22        |
|                            | Acetate Plant        | 2                                 | 295 6          | 586              | 24        |
|                            | Formaldehyde Plant   | 5                                 | 529 7          | 1048             | 89        |
|                            | Rented Houses        | $\frac{1}{2}$                     | 38 9           | 75               | 35        |
|                            | <b>Total</b>         | <b>10<math>\frac{1}{4}</math></b> | <b>1307 8</b>  | <b>2644</b>      | <b>01</b> |
| <b>Grand Total</b>         |                      | <b>165</b>                        | <b>54481.4</b> | <b>112398.43</b> |           |

PIONEER IRON COMPANY.  
Pioneer Furnace No. 2

LABOR STATEMENT FOR YEAR 1904.

|  | No. Men    |            | No. Days        | Earnings         | Rate per Day |             |  | No. Men |      | No. Days | Earnings | Rate per Day |           |
|--|------------|------------|-----------------|------------------|--------------|-------------|--|---------|------|----------|----------|--------------|-----------|
|  | 1903       | 1904       |                 |                  | Current Year | Last Year   |  | 1903    | 1904 |          |          | Current Year | Last Year |
| <b>FURNACE:</b>  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Engineers  | 2          | 2          | 288 4           | 750 32           | 2 62         | 2 75        |  |         |      |          |          |              |           |
| Fan Engine Engineers   | 2          | 2          | 293 3           | 608 50           | 2 07         | 2 25        |  |         |      |          |          |              |           |
| Firemen  | 2          | 2          | 284 5           | 472 75           | 1 66         | 1 75        |  |         |      |          |          |              |           |
| Oilers   | 2          | 2          | 280 6           | 502 97           | 1 80         | 1 77        |  |         |      |          |          |              |           |
| Wipers   | 2          | 2          | 287 8           | 431 70           | 1 50         | 1 50        |  |         |      |          |          |              |           |
| Founders   | 2          | 2          | 732 9           | 2700 00          | 3 70         | 3 69        |  |         |      |          |          |              |           |
| Keepers  | 3          | 2          | 732             | 1551 15          | 2 12         | 2 24        |  |         |      |          |          |              |           |
| Helpers  | 10         | 8          | 3080 0          | 5527 62          | 1 82         | 1 86        |  |         |      |          |          |              |           |
| Top Fillers  | 2          | 2          | 734             | 1381 67          | 1 88         | 2 07        |  |         |      |          |          |              |           |
| Bottom Fillers   | 9          | 2          | 740 8           | 1270 56          | 1 72         | 1 92        |  |         |      |          |          |              |           |
| Cinder Snappers  | 5          | 5          | 1830 8          | 2935 03          | 1 60         | 1 72        |  |         |      |          |          |              |           |
| Crusherman   | 1          | 1          | 139 5           | 239 11           | 1 72         | 1 80        |  |         |      |          |          |              |           |
| Iron Grader  | 1          | 1          | 366             | 640 50           | 1 75         | 1 75        |  |         |      |          |          |              |           |
| Iron Handlers  | 8          | 8          | 2774 7          | 5647 52          | 2 04         | 2 25        |  |         |      |          |          |              |           |
| Coal Forkers   | 14         | 12         | 4624 1          | 8407 74          | 1 82         | 1 92        |  |         |      |          |          |              |           |
| Coal Car Motorman  | 2          | 2          | 731 8           | 1335 44          | 1 82         | 1 98        |  |         |      |          |          |              |           |
| Coal Car Brakemen  | 2          | 2          | 718 6           | 1195 58          | 1 67         | 1 75        |  |         |      |          |          |              |           |
| Scale Car Motormen   | 2          | 2          | 724 4           | 1394 36          | 1 92         | 2 10        |  |         |      |          |          |              |           |
| Hoistmen   | 2          | 2          | 716 2           | 1306 56          | 1 82         | 2 00        |  |         |      |          |          |              |           |
| Stock Dumpers  | 2          |            |                 |                  |              | 1 80        |  |         |      |          |          |              |           |
|  | 74         | 61         |                 |                  |              |             |  |         |      |          |          |              |           |
| Less 55% Engrs. & F'Men to C.P. and 5% Engrs. & F'Men to F.P.      |            | 6          |                 |                  |              |             |  |         |      |          |          |              |           |
| Total  | 74         | 55         | 20030 4         | 33304 88         | 1 91         | 2 01        |  |         |      |          |          |              |           |
| <b>CHEMICAL PLANT:</b>   |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Stillmen   | 13         | 13         | 4748 2          | 9110 39          | 1 92         | 1 90        |  |         |      |          |          |              |           |
| Engineers  | 4          | 4          | 818 1           | 1920 61          | 2 35         | 2 50        |  |         |      |          |          |              |           |
| Firemen  | 6          | 6          | 1190 5          | 1970 54          | 1 65         | 1 71        |  |         |      |          |          |              |           |
| Condensermen   | 2          | 2          | 691 4           | 1214 47          | 1 76         | 1 81        |  |         |      |          |          |              |           |
| Foreman  | 1          |            |                 |                  |              | 3 25        |  |         |      |          |          |              |           |
| Less 40% Engrs. & F'Men to Fur. and 5% Engrs. & F'Men to F.P.      |            | 25         |                 |                  |              |             |  |         |      |          |          |              |           |
| Total  | 16         | 21         | 7457 2          | 14225 01         | 1 91         | 1 98        |  |         |      |          |          |              |           |
| <b>KILNS:</b>  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Colliers   | 4          | 5          | 1697 0          | 3320 77          | 1 96         | 1 94        |  |         |      |          |          |              |           |
| Whitewashers   | 2          | 2          | 542 6           | 902 68           | 1 66         | 1 75        |  |         |      |          |          |              |           |
| Packers  | 17         | 20         | 6214 4          | 13887 36         | 2 22         | 2 50        |  |         |      |          |          |              |           |
| Packer Foreman   | 1          | 1          | 366             | 1241 26          | 3 40         | 2 46        |  |         |      |          |          |              |           |
| Kiln Cleaner   | 3          | 2          | 681 9           | 1147 53          | 1 68         | 1 66        |  |         |      |          |          |              |           |
| Braizemen  | 1          | 2          | 660 6           | 1054 32          | 1 60         | 1 84        |  |         |      |          |          |              |           |
| Brand Fuller   | 3          | 1          | 31              | 57 00            | 1 87         |             |  |         |      |          |          |              |           |
| Wood Handlers  |            |            |                 |                  |              | 1 70        |  |         |      |          |          |              |           |
| Total  | 27         | 33         | 10193 5         | 21611 82         | 2 12         | 2 27        |  |         |      |          |          |              |           |
| <b>MUNISING EAST WOOD JOB:</b>                                     |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman & Measuring  | 1          | 1 1/2      | 434 5           | 1023 08          | 2 35         | 2 63        |  |         |      |          |          |              |           |
| Chopping 4468 5/8 Cords  | 44         | 87         | 27233 0         | 33329 19         | 1 22         | 1 61        |  |         |      |          |          |              |           |
| Fire Protection  | 1          | 1          | 35 5            | 40 80            | 1 60         | 1 70        |  |         |      |          |          |              |           |
| Superintendent   | 1          | 1 1/2      | 215 7           | 910 15           | 4 36         | 4 58        |  |         |      |          |          |              |           |
| Spurs and Barns  | 4          | 3          | 213 5           | 338 67           | 1 60         | 1 31        |  |         |      |          |          |              |           |
| Total  | 50         | 93         | 28122 2         | 36650 89         | 1 27         | 1 63        |  |         |      |          |          |              |           |
| <b>MUNISING WEST WOOD JOB:</b>                                     |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman & Measuring  | 2          | 1/2        | 241 2           | 506 64           | 2 10         | 2 25        |  |         |      |          |          |              |           |
| Chopping 14290 Cords   | 34         | 31         | 9619            | 10993 43         | 1 14         | 1 63        |  |         |      |          |          |              |           |
| Superintendent   | 1          | 1 1/2      | 103             | 406 41           | 3 95         | 4 58        |  |         |      |          |          |              |           |
| Spurs and Barns  | 2          | 8          | 860 6           | 1465 25          | 1 70         | 1 70        |  |         |      |          |          |              |           |
| Total  | 37         | 40         | 10823 8         | 13371 73         | 1 24         | 1 63        |  |         |      |          |          |              |           |
| <b>EBEN WOOD JOB:</b>  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman & Measuring  | 1          | 1/8        | 173 0           | 359 98           | 2 08         | 2 13        |  |         |      |          |          |              |           |
| Chopping 14675 Cords   | 46         | 27         | 8411            | 11101 59         | 1 32         | 1 34        |  |         |      |          |          |              |           |
| Superintendent   | 1          | 1/2        | 75 2            | 324 44           | 4 31         | 4 58        |  |         |      |          |          |              |           |
| Spurs and Barns  | 2          | 1 1/2      | 9 6             | 16 50            | 1 71         | 1 71        |  |         |      |          |          |              |           |
| Total  | 50         | 28 1/2     | 8668 8          | 11802 51         | 1 36         | 1 38        |  |         |      |          |          |              |           |
| <b>MISCELLANEOUS:</b>  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Barn Boss  | 1          | 1          | 366 0           | 488 61           | 1 34         | 1 50        |  |         |      |          |          |              |           |
| Teamsters and Helpers  | 2          |            |                 |                  |              | 1 90        |  |         |      |          |          |              |           |
| Blacksmith   | 1          | 1          | 337 7           | 855 37           | 2 53         | 2 70        |  |         |      |          |          |              |           |
| Blacksmith Helpers   | 1          |            |                 |                  |              | 1 53        |  |         |      |          |          |              |           |
| Machinists   | 4          | 5          | 1748 5          | 4054 92          | 2 32         | 2 52        |  |         |      |          |          |              |           |
| Machinist Helpers  | 3          | 2          | 573 5           | 817 34           | 1 43         | 1 05        |  |         |      |          |          |              |           |
| Carpenters   | 27         | 5          | 1440 7          | 3087 32          | 2 14         | 2 07        |  |         |      |          |          |              |           |
| Locomotive Engineer  | 1          | 1          | 359 6           | 1060 83          | 2 95         | 2 93        |  |         |      |          |          |              |           |
| Brakeman   | 1          | 1          | 366 6           | 952 90           | 2 60         | 2 58        |  |         |      |          |          |              |           |
| Electrician  | 1          | 1          | 366             | 999 96           | 2 73         | 2 73        |  |         |      |          |          |              |           |
| Electrician Helper   | 2          | 1          | 309 8           | 245 58           | 1 79         | 1 76        |  |         |      |          |          |              |           |
| Laborers   | 23         | 16         | 6100 9          | 9620 89          | 1 58         | 1 47        |  |         |      |          |          |              |           |
| Yard Foreman   | 1          | 1          | 366             | 1020 00          | 2 79         | 2 77        |  |         |      |          |          |              |           |
| Laboratory Boys  | 1          | 2          | 561 2           | 1021 11          | 1 82         | 1 80        |  |         |      |          |          |              |           |
| Masons   | 2          | 1          | 23 2            | 116 00           | 5 00         | 4 50        |  |         |      |          |          |              |           |
| Mason Helpers  | 3          |            |                 |                  |              | 1 72        |  |         |      |          |          |              |           |
| Crown Dryer Company  | 13         | 8          | 1136 2          | 2350 53          | 2 07         | 2 39        |  |         |      |          |          |              |           |
| D. A. Young, Contractor  | 30         | 2          | 121 2           | 188 24           | 1 55         |             |  |         |      |          |          |              |           |
| Construction   |            |            |                 |                  |              | 2 00        |  |         |      |          |          |              |           |
| Total  | 87         | 48         | 14177 1         | 26273 60         | 1 90         | 2 05        |  |         |      |          |          |              |           |
| <b>FORMALDEHYDE PLANT:</b>   |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Stillmen   | 2          |            |                 |                  |              | 1 85        |  |         |      |          |          |              |           |
| Engrs. & Fan Engrs.  | 4          |            |                 |                  |              | 2 33        |  |         |      |          |          |              |           |
| F'Men, Oilers & Wipers   | 6          |            |                 |                  |              | 1 65        |  |         |      |          |          |              |           |
| Less 55% Engrs. & F'Men to C. P. and 40% Engrs. & F'Men to Furnace |            | 12         |                 |                  |              |             |  |         |      |          |          |              |           |
| Total  |            | 2          | 512 0           | 957 12           | 1 87         |             |  |         |      |          |          |              |           |
| <b>MUNISING EAST LOADING JOB:</b>                                  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman  | 1          | 1 1/2      | 183 0           | 602 17           | 3 29         | 3 10        |  |         |      |          |          |              |           |
| Teamsters  | 17         | 19         | 5980 6          | 9612 79          | 1 65         | 1 75        |  |         |      |          |          |              |           |
| Swampers   | 10         | 13         | 3896 9          | 6202 87          | 1 60         | 1 70        |  |         |      |          |          |              |           |
| Car Loaders  | 8          | 7          | 1998 7          | 3451 76          | 1 73         | 1 75        |  |         |      |          |          |              |           |
| Road Makers  | 8          | 14         | 3935 6          | 6368 00          | 1 60         | 1 70        |  |         |      |          |          |              |           |
| Barn Boss  | 2          | 1          | 428 2           | 698 96           | 1 63         | 1 70        |  |         |      |          |          |              |           |
| Blacksmith   | 1          | 1          | 336 9           | 587 59           | 1 74         | 1 77        |  |         |      |          |          |              |           |
| Total  | 48         | 55 1/2     | 16809 9         | 27724 14         | 1 65         | 1 75        |  |         |      |          |          |              |           |
| <b>MUNISING WEST LOADING JOB:</b>                                  |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman  | 1          | 1 1/2      | 222 4           | 564 50           | 2 54         | 2 46        |  |         |      |          |          |              |           |
| Teamsters  | 11         | 11         | 3372 7          | 5541 30          | 1 65         | 1 75        |  |         |      |          |          |              |           |
| Swampers   | 14         | 13         | 3915            | 6248 78          | 1 60         | 1 70        |  |         |      |          |          |              |           |
| Car Loaders  | 5          | 3          | 961 5           | 1614 41          | 1 65         | 1 75        |  |         |      |          |          |              |           |
| Barn Boss  | 1          | 1          | 310 2           | 513 10           | 1 65         | 1 68        |  |         |      |          |          |              |           |
| Blacksmith   | 1          | 1          | 372             | 609 26           | 1 80         | 1 76        |  |         |      |          |          |              |           |
| Total  | 33         | 29 3/8     | 9173 8          | 15151 35         | 1 65         | 1 74        |  |         |      |          |          |              |           |
| <b>EBEN LOADING JOB:</b>   |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
| Foreman  | 1          |            |                 |                  |              | 2 09        |  |         |      |          |          |              |           |
| Teamsters  | 8          | 9          | 1845 3          | 3034 50          | 1 65         | 1 75        |  |         |      |          |          |              |           |
| Swampers   | 9          | 9          | 2424 6          | 3968 62          | 1 60         | 1 70        |  |         |      |          |          |              |           |
| Car Loaders  | 4          | 3          | 664 3           | 1090 41          | 1 65         | 1 75        |  |         |      |          |          |              |           |
| Road Makers  |            | 1          | 15 2            | 23 99            | 1 58         |             |  |         |      |          |          |              |           |
| Barn Boss  | 1          | 1          | 164 9           | 292 00           | 1 77         | 1 70        |  |         |      |          |          |              |           |
| Blacksmith   | 1          | 1          | 161 2           | 291 77           | 1 81         | 1 80        |  |         |      |          |          |              |           |
| Total  | 21         | 21 3/8     | 5514 1          | 9074 44          | 1 65         | 1 74        |  |         |      |          |          |              |           |
| <b>OFFICE PAY ROLL</b>   |            |            |                 |                  |              |             |  |         |      |          |          |              |           |
|  | 5          | 6          | 2111 2          | 10420 00         | 4 93         | 5 28        |  |         |      |          |          |              |           |
| Total Not Inc. Wood Jobs   | 209        | 165        | 54481 4         | 112398 43        | 2 06         | 2 14        |  |         |      |          |          |              |           |
| Total Wood Jobs  | 239        | 268        | 79112 6         | 112775 06        | 1 43         | 1 63        |  |         |      |          |          |              |           |
| <b>Grand Total Pay Roll</b>  | <b>448</b> | <b>433</b> | <b>133594 0</b> | <b>225173 49</b> | <b>1 69</b>  | <b>1 88</b> |  |         |      |          |          |              |           |



THE PIONEER IRON COMPANY

PIONEER FURNACE NO.2.

Shop Labor

Year 1904.

| MACHINE SHOP    |                |               |                  |              |                       |                 |              |
|-----------------|----------------|---------------|------------------|--------------|-----------------------|-----------------|--------------|
| Month           | Pay Roll       | Supplies      | Total Shop Debit | Total Hours  | Less Hours Rep. Tools | Net hrs Charged | Cost per Hr. |
| <b>1903</b>     |                |               |                  |              |                       |                 |              |
| Dec.            | 504.70         | 17.80         | 522.50           | 2105         | 33                    | 2072            | .2526        |
| <b>1904</b>     |                |               |                  |              |                       |                 |              |
| Jany.           | 440.73         | 34.46         | 475.19           | 1847         | 33                    | 1814            | .2620        |
| Feb.            | 509.56         | 23.50         | 533.06           | 2261         | 52                    | 2209            | .2420        |
| March           | 599.72         | 26.15         | 625.87           | 2643         | 44                    | 2599            | .2410        |
| April           | 497.10         | 19.99         | 517.09           | 1969         | 54                    | 1915            | .2705        |
| May             | 388.61         | 11.16         | 399.77           | 1497         | 39                    | 1458            | .2741        |
| June            | 332.04         | 21.26         | 353.30           | 1279         | 26                    | 1253            | .2820        |
| July            | 425.49         | 16.71         | 442.20           | 1715         | 21                    | 1694            | .2610        |
| Aug.            | 304.10         | 22.65         | 326.75           | 1102         | 14                    | 1088            | .2888        |
| Sept.           | 280.59         | 27.85         | 308.44           | 986          | 32                    | 954             | .3233        |
| Oct.            | 295.30         | 6.72          | 302.02           | 1055         | 15                    | 1040            | .2904        |
| Nov.            | 309.90         | 7.32          | 317.22           | 1160         | 12                    | 1148            | .2763        |
| <b>Total</b>    | <b>4887.84</b> | <b>235.57</b> | <b>5123.41</b>   | <b>19619</b> | <b>375</b>            | <b>19244</b>    | <b>.2655</b> |
| BLACKSMITH SHOP |                |               |                  |              |                       |                 |              |
| Dec.            | 92.25          | 8.20          | 100.45           | 350          |                       | 350             | .2874        |
| Jany.           | 73.37          | 14.70         | 88.07            | 280          |                       | 280             | .3150        |
| Feb.            | 66.25          | 8.25          | 74.50            | 265          |                       | 265             | .2810        |
| March           | 71.75          | 8.30          | 80.05            | 287          |                       | 287             | .2530        |
| April           | 67.50          | 8.20          | 75.70            | 270          |                       | 270             | .2800        |
| May             | 66.00          | 5.90          | 71.90            | 264          | 14                    | 250             | .2732        |
| June            | 73.00          | 6.78          | 79.78            | 292          |                       | 292             | .2732        |
| July            | 75.50          | 7.30          | 82.80            | 302          | 5                     | 297             | .2788        |
| August          | 68.75          | 7.17          | 75.92            | 275          | 1                     | 274             | .2770        |
| Sept.           | 70.00          | 8.00          | 78.00            | 280          | 1                     | 279             | .2797        |
| Oct.            | 66.00          | 3.00          | 69.00            | 264          |                       | 264             | .2613        |
| Nov.            | 72.00          | 5.76          | 77.76            | 288          |                       | 288             | .2700        |
| <b>Total</b>    | <b>862.37</b>  | <b>91.56</b>  | <b>953.93</b>    | <b>3417</b>  | <b>21</b>             | <b>3396</b>     | <b>.2809</b> |
| CARPENTER SHOP  |                |               |                  |              |                       |                 |              |
| Dec.            | 390.45         |               | 390.45           | 1691         |                       | 1691            | .2310        |
| Jany.           | 640.04         |               | 640.04           | 3012         |                       | 3012            | .2125        |
| Feb.            | 319.69         |               | 319.69           | 1472         |                       | 1472            | .2170        |
| March           | 347.41         |               | 347.41           | 1715         |                       | 1715            | .2026        |
| April           | 234.45         |               | 234.45           | 1088         |                       | 1088            | .2155        |
| May             | 218.75         |               | 218.75           | 1000         |                       | 1000            | .2187        |
| June            | 226.12         |               | 226.12           | 1035         |                       | 1035            | .2185        |
| July            | 211.75         |               | 211.75           | 950          |                       | 950             | .2220        |
| Aug.            | 152.25         |               | 152.25           | 660          |                       | 660             | .2300        |
| Sept.           | 119.12         |               | 119.12           | 500          |                       | 500             | .2382        |
| Oct.            | 122.12         |               | 122.12           | 515          |                       | 515             | .2371        |
| Nov.            | 165.17         |               | 165.17           | 722          |                       | 722             | .2290        |
| <b>Total</b>    | <b>3147.32</b> |               | <b>3147.32</b>   | <b>14360</b> |                       | <b>14360</b>    | <b>.2191</b> |



STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT FOR THE MONTH OF YEAR 1904

| Auth. No. | DESCRIPTION   | Amount Authorized | Cost to End of Last Fiscal Year | Cost for Current Year to End of Last Month | Cost for Current Month | Total Cost to Date | Unexpended Balance | CHARGED OFF                      |  |                      |               |                       |
|-----------|---|-------------------|---------------------------------|--|------------------------|--------------------|--------------------|----------------------------------|--|----------------------|---------------|-----------------------|
|           |   |                   |                                 |  |                        |                    |                    | To End of Last Fiscal Year       | During Current Year to End of Last Month | During Current Month | Total to Date | Balance to Charge Off |
|           | Furnace   |                   | 418537 79                       | 13909 38                                   |                        | 432447 17          |                    | 23321 00                         | 42356 00                                 |                      | 66077 00      | 366370 17             |
|           | Chemical Plant  |                   | 425396 01                       | 8538 73                                    |                        | 433934 74          |                    | 17767 00                         | 42642 24                                 |                      | 60409 84      | 373574 00             |
|           | Acetate Plant   |                   | 15974 24                        | 16494 78                                   |                        | 32469 02           |                    |                                  |  |                      |               | 32469 02              |
|           | Kilns   |                   | 104400 26                       | 43 47                                      |                        | 104443 73          |                    | 5396 66                          | 9183 39                                  |                      | 14580 05      | 89863 68              |
| 1         | Six New Kilns   | 6866 40           | 7061 81                         |  |                        | 7061 81            |                    |                                  |  |                      |               | 7061 81               |
|           | Rented Houses   |                   | 15402 59                        | 301 00                                     |                        | 15703 59           |                    | 1550 63                          | 2261 02                                  |                      | 3811 65       | 11891 94              |
| 3         | Five New Tenement Houses  | 7250 00           |                                 | 6970 00                                    |                        | 6970 00            |                    |                                  |  |                      |               | 6970 00               |
| 6         | Formaldehyde Plant  | 14356 41          | 13183 47                        | 8881 57                                    |                        | 22065 04           |                    |                                  | 1654 65                                  |                      | 1654 65       | 20410 39              |
| 4         | Fence Around Plant " K "  | 493 00            | 444 49                          | 60 80                                      |                        | 505 29             |                    |                                  |  |                      |               | 505 29                |
| 2         | Valley Spur   | 5786 00           | 5248 34                         |  |                        | 5248 34            |                    |                                  | 4009 75                                  |                      | 4009 75       | 338 59                |
| 60        | Munising East Spurs   | 4448 92           | 5008 75                         | 152 17                                     |                        | 6140 92            |                    | 1207 96                          | 4583 33                                  |                      | 5791 29       | 349 63                |
| 61        | Munising West Spurs   | 2397 65           | 2433 52                         | 2790 58                                    |                        | 5224 10            |                    | 570 54                           | 1437 78                                  |                      | 2008 32       | 3215 78               |
| 5         | Eben Camps  |                   | 864 20                          |  |                        | 864 20             |                    | 687 86                           | 176 34                                   |                      | 864 20        | 0 00                  |
| "         | Eben Spurs  | 1319 87           | 335 69                          |  |                        | 335 69             |                    | 335 69                           |  |                      | 335 69        | 0 00                  |
|           | Company House Coalwood  |                   | 300 75                          |  |                        | 300 75             |                    | 130 85                           | 169 90                                   |                      | 300 75        | 0 00                  |
| 60B       | East Extension Coalwood No. 1   | 412 50            |                                 | 136 70                                     |                        | 136 70             |                    |                                  |  |                      |               | 136 70 #              |
| 7         | Additional Skip " L "   | 550 00            |                                 | 675 00                                     |                        | 675 00             |                    |                                  |  |                      |               | 675 00                |
|           | Repairs Rented Houses   |                   |                                 | 19 38                                      |                        | 19 38              |                    |                                  | 19 38                                    |                      | 19 38         | 0 00                  |
|           |   |                   | 1015571 91                      | 59023 50                                   |                        | 1074595 47         |                    | 51468 79                         | 109223 78                                |                      | 160762 57     | 913832 90             |
| K         | Item charged New Construction ( Furnace and Chemical Plant 50% each ) and the amount is included in the figures shown for the Furnace and Chemical Plant. |                   |                                 |  |                        |                    |                    |                                  |  |                      |               |                       |
| L         | Item charged New Construction ( Furnace ) and is included in the figures shown for Furnace.   |                   |                                 |  |                        |                    |                    |                                  |  |                      |               |                       |
|           |   |                   |                                 |  |                        |                    |                    | <u>BALANCE SHEET</u>             |  |                      |               |                       |
|           |   |                   |                                 |  |                        |                    |                    | Item No. 58                      |  |                      |               | 908611 91             |
|           |   |                   |                                 |  |                        |                    |                    | Item No. 60                      |  |                      |               | 4040 70               |
|           |   |                   |                                 |  |                        |                    |                    | Total New Const. and Improvement |  |                      |               | 912652 61             |
|           |   |                   |                                 |  |                        |                    |                    | Fence Around Plant "K"           |  |                      | 505 29        |                       |
|           |   |                   |                                 |  |                        |                    |                    | Additional Skip                  |  |                      | 675 00        | 1180 29               |
|           |   |                   |                                 |  |                        |                    |                    | Total as above                   |  |                      |               | 913832 90             |

REMARKS:

Item marked # has not as yet been completed.



PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

Statement of Fire Insurance in force November 30, 1904.

| Policy Number | Company                       | Property Insured    | Location  | Time Insured | Expiration   | Amount Insured | Rate | Time   | Premium Paid | Premium Accrued | Losses            |
|---------------|-------------------------------|---------------------|-----------|--------------|--------------|----------------|------|--------|--------------|-----------------|-------------------|
| 1210          | Providence Washington Ins.Co. | Supt's Residence    | Marquette | 3 Years      | July 22, '05 | 3500.00        | 1.20 | 3 Yrs. | 29.16        | 29.68           | None ( See Note ) |
| 1530          | Michigan Fire & Marine        | " "                 | " "       | " "          | May 17, '05  | 1500.00        | 1.20 | " "    | 11.34        | 15.29           | " " "             |
| 50033         | Palatine                      | " "                 | " "       | " "          | " " '05      | 2000.00        | 1.20 | " "    | 15.10        | 20.33           | " " "             |
| 1322377       | Queen                         | " "                 | " "       | " "          | Aug. 26, '06 | 3500.00        | 1.15 | " "    | 40.25        | 16.78           | " " "             |
| 2779          | Home                          | 5 Dbl.Dwellings     | Furnace   | " "          | Dec. 4, '06  | 7200.00        | 1.50 | " "    | 120.00       | 40.00           | " " "             |
| 439866        | Equitable Fire & Marine       | Italian Club Ho.    | " "       | 1 "          | Oct. 27, '05 | 250.00         | 2.00 | 1 "    | 5.00         | .42             | " " "             |
| 8680124       | Royal                         | 10 Dbl.Dwellings    | " "       | 3 "          | " 6, '05     | 12000.00       | 1.50 | 3 "    | 204.00       | 154.00          | " " "             |
| 3707304       | N. B. & M.                    | Office Building     | " "       | " "          | " 27, '05    | 5000.00        | 3.50 | " "    | 175.00       | 63.10           | " " "             |
| 1356098       | American Central              | Office & Laby.Eqpt. | " "       | " "          | " 30, '06    | 1400.00        | 3.75 | " "    | 52.50        | 18.96           | " " "             |
|               |                               |                     |           |              |              | 36350.00       |      |        | 652.35       | 358.56          |                   |

154  
94.00  
60.00  
46.00

12.94  
6.66  
8.98  
34.40

3500  
1400.00

NOTES:

| Policy Number         | 1210  | 1530  | 50033 |
|-----------------------|-------|-------|-------|
| Total Premium Paid    | 42.00 | 18.00 | 24.00 |
| We Paid               | 29.16 | 11.34 | 15.10 |
| Isabella C.Tower Paid | 12.84 | 6.66  | 8.90  |

Policy No.1515 expiring April 20th, 1904 was cancelled and policy No.439866 issued in its place, The unearned premium on No.1515 amounting to \$4.32 being refunded to us.

Policy No. 1418 expires April 30th 1904 and policy No. 488888 issued in its place. The unearned premium on No. 1418 amounting to \$44.83 being refunded.

Ingefor O. Jones Ltd 15.84 0.00 0.00  
 McNeil 30.15 11.84 18.70  
 Royal Dominion Ltd 43.00 18.00 24.00

Policy Number 1310 1180 80033

NOTE:

**PIONEER IRON COMPANY,**  
 PIONEER FURNACE No. 2  
**STATEMENT OF FIRE INSURANCE**  
**IN FORCE NOVEMBER 30, 1904.**

| Number  | Company               | Property Insured      | Location | Amount   | Rate | Time | Begin | Accumulated Premium | Notes |
|---------|-----------------------|-----------------------|----------|----------|------|------|-------|---------------------|-------|
| 1300000 | American Central      | Chicago & Rock. Dept. | "        | \$500.00 | 3.48 | "    | 12-30 | 18.86               | "     |
| 1300001 | H. P. W. Co.          | Chicago & Rock. Dept. | "        | \$500.00 | 3.20 | "    | 12-30 | 16.70               | "     |
| 1300002 | Home                  | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300003 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300004 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300005 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300006 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300007 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300008 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300009 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300010 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300011 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300012 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300013 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300014 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300015 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300016 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300017 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300018 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300019 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |
| 1300020 | Chicago & Rock. Dept. | Chicago & Rock. Dept. | "        | \$500.00 | 1.80 | "    | 12-30 | 9.00                | "     |

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PIONEER IRON COMPANY.  
Pioneer Furnace #2.  
COMPARATIVE STATEMENT OF TAXES FOR 1903 AND 1904.

|                             | Acres | 1904      |    |       |    | 1903      |    |       |    |
|-----------------------------|-------|-----------|----|-------|----|-----------|----|-------|----|
|                             |       | Valuation |    | Taxes |    | Valuation |    | Taxes |    |
| <b>CITY OF MARQUETTE:</b>   |       |           |    |       |    |           |    |       |    |
| Furnace Property, Real      | 119   | 350000    | 00 | 7457  | 95 | 350000    | 00 | 7326  | 34 |
| Furnace Property, Personal  |       | 99700     | 00 | 2124  | 46 | 32000     | 00 | 669   | 85 |
| Superintendent's Residence  |       | 10400     | 00 | 221   | 61 | 10400     | 00 | 73    | 33 |
| Total                       | 119   | 460100    | 00 | 9804  | 02 | 392400    | 00 | 8069  | 52 |
| <b>ONOTA TOWNSHIP:</b>      |       |           |    |       |    |           |    |       |    |
| Personal                    |       | 16000     | 00 | 284   | 42 | 33750     | 00 | 695   | 38 |
| <b>AU TRAIN TOWNSHIP:</b>   |       |           |    |       |    |           |    |       |    |
| Personal                    |       | 15000     | 00 | 454   | 50 |           |    |       |    |
| <b>ROCK RIVER TOWNSHIP:</b> |       |           |    |       |    |           |    |       |    |
| Personal                    |       | 9100      | 00 | 393   | 87 | 19700     | 00 | 879   | 16 |
| Grand Total                 | 119   | 500200    | 00 | 10936 | 81 | 445850    | 00 | 9644  | 06 |

DISTRIBUTION OF TAXES 1904.

|                             |  |  |  |  |  |      |    |   |          |
|-----------------------------|--|--|--|--|--|------|----|---|----------|
| <b>CITY OF MARQUETTE:</b>   |  |  |  |  |  |      |    |   |          |
| Accounts Receivable         |  |  |  |  |  | 110  | 80 | - |          |
| Furnace General Expense     |  |  |  |  |  | 4846 | 61 |   |          |
| Chemical General Expense    |  |  |  |  |  | 4846 | 61 |   |          |
| Total                       |  |  |  |  |  |      |    |   | 9804 02  |
| <b>ONOTA TOWNSHIP:</b>      |  |  |  |  |  |      |    |   |          |
| Taxes Munising Lands West   |  |  |  |  |  |      |    |   | 284 42   |
| <b>AU TRAIN TOWNSHIP:</b>   |  |  |  |  |  |      |    |   |          |
| Taxes Munising Lands East   |  |  |  |  |  |      |    |   | 454 50   |
| <b>ROCK RIVER TOWNSHIP:</b> |  |  |  |  |  |      |    |   |          |
| Wood Along Munising Railway |  |  |  |  |  | 236  | 82 |   |          |
| Eben Wood                   |  |  |  |  |  | 157  | 05 |   |          |
| Total                       |  |  |  |  |  |      |    |   | 393 87   |
| Grand Total                 |  |  |  |  |  |      |    |   | 10936 81 |

*Corrected copy*

*Corrected copy*

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## COMPARATIVE STATEMENT OF TAXES FOR 1903 AND 1904.

|                                    | 1903            | 1904            |
|------------------------------------|-----------------|-----------------|
| STATE TAXES:                       | 184 00          | 200 00          |
| LOCAL TAXES:                       | 340 00          | 320 00          |
| <b>TOTAL STATE AND LOCAL TAXES</b> | <b>524 00</b>   | <b>520 00</b>   |
| FEDERAL TAXES:                     | 110 00          | 110 00          |
| <b>TOTAL TAXES</b>                 | <b>634 00</b>   | <b>630 00</b>   |
| PROPERTY TAXES:                    | 10000 00        | 10000 00        |
| SALES TAXES:                       | 10000 00        | 10000 00        |
| ADDITIONAL TAXES:                  | 10000 00        | 10000 00        |
| <b>TOTAL TAXES</b>                 | <b>30000 00</b> | <b>30000 00</b> |



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 PIONEER IRON COMPANY

COMPARATIVE STATEMENT OF TAXES FOR 1903 AND 1904.  
 PIONEER IRON COMPANY  
 RICHMOND, VIRGINIA



PIONEER IRON COMPANY  
Pioneer Furnace #2.

Legal Expenses

Year, 1904.

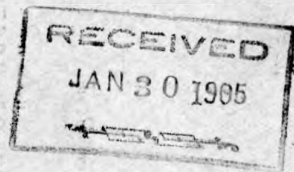
W. P. Belden

|                                      |        |
|--------------------------------------|--------|
| Salary Nov. 1, 1903 to Nov. 30, 1904 | 270.91 |
| Expenses " " " " " " "               | 54.01  |
| Total                                | 324.92 |

PIONEER IRON COMPANY  
Pioneer Furnace #2.

LEGAL EXPENSES

YEAR, 1904.



PIONEER IRON COMPANY

Pioneer Furnace No.2

Comparative Statement of General Office Expense

For the years 1903 & 1904.

--o:--

|                                  | <u>1 9 0 4</u>  | <u>1 9 0 3</u> |
|----------------------------------|-----------------|----------------|
| Superintendent - - - - -         | 4000.00         | 2333.31        |
| Assistant Auditor - - - - -      | 750.00          | 525.00         |
| Chief Clerk - - - - -            | 540.00          | 262.50         |
| Cashier - - - - -                | 1200.00         | 0.00           |
| Assistant Clerks - - - - -       | 720.00          | 800.00         |
| Extra Clerks - - - - -           | 195.04          | 0.00           |
| Stenographer - - - - -           | 420.00          | 285.00         |
| Chief Engineer - - - - -         | 1500.00         | 833.34         |
| Assistant Engineer - - - - -     | 0.00            | 875.00         |
| Stationery & Printing - - - - -  | 453.80          | 801.36         |
| Postage - - - - -                | 202.46          | 163.36         |
| Exchange - - - - -               | 87.40           | 83.75          |
| Telephones & Telegrams - - - - - | 858.57          | 609.51         |
| Traveling - - - - -              | 865.20          | 607.65         |
| Freight & Express - - - - -      | .50             | 12.45          |
| Entertaining - - - - -           | 15.25           | 31.50          |
| Livery - - - - -                 | 77.00           | 51.25          |
| Legal - - - - -                  | 324.92          | 141.64         |
| Launch - - - - -                 | 21.96           | 54.98          |
| Stable Expense - - - - -         | 359.07          | 209.83         |
| Janitor - - - - -                | 180.00          | 75.00          |
| Papers & Periodicals - - - - -   | 9.57            | 15.20          |
| Inventory - - - - -              | 1.50            | 6.24           |
| Donations - - - - -              | 1.00            | 0.00           |
| Photographs - - - - -            | 31.25           | 0.00           |
| Accident - - - - -               | 361.25          | 0.00           |
| St. Louis Exposition - - - - -   | 718.29          | 0.00           |
| Political - - - - -              | 21.35           | 15.00          |
| Moving Mr. Farrell - - - - -     | 0.00            | 2.63           |
| Petty Office - - - - -           | 0.00            | 51.61          |
| <b>Total</b> - - - - -           | <b>13916.08</b> | <b>8847.11</b> |

*undistributed* 318.45  
14234.33

Donations: Morse Hose Co., Marquette, Mich.  
 Ticket to dance Jan. 1st, 1904., - \$1.00

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## Comparative Statement of General Office Expense

For the years 1903 & 1904

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|                      | 1903   | 1904   |
|----------------------|--------|--------|
| Office Salaries      | 11,000 | 11,000 |
| Office Expenses      | 1,000  | 1,000  |
| Office Supplies      | 500    | 500    |
| Office Fuel          | 100    | 100    |
| Office Repairs       | 100    | 100    |
| Office Printing      | 100    | 100    |
| Office Stationery    | 100    | 100    |
| Office Telephone     | 100    | 100    |
| Office Travel        | 100    | 100    |
| Office Insurance     | 100    | 100    |
| Office Rent          | 100    | 100    |
| Office Utilities     | 100    | 100    |
| Office Maintenance   | 100    | 100    |
| Office Security      | 100    | 100    |
| Office Cleaning      | 100    | 100    |
| Office Reproduction  | 100    | 100    |
| Office Miscellaneous | 100    | 100    |
| Office Total         | 13,000 | 13,000 |

1903 1904

COMPARATIVE STATEMENT OF GENERAL OFFICE EXPENSE

1903 1904

1903 1904

PIONEER IRON COMPANY  
Pioneer Furnace #2.

STATEMENT OF DONATIONS

YEAR, 1904.

---

Morse Hose Co.,

Marquette, Mich.

Ticket to dance Jan.1, 1904

1.00

PIONEER IRON COMPANY  
Pioneer Furnace #2.

STATEMENT OF DONATIONS

YEAR, 1904.

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PIONEER IRON COMPANY  
Pioneer Furnace #2.

STATEMENT OF DONATIONS

STATEMENT OF DONATIONS

STATEMENT OF DONATIONS

STATEMENT OF DONATIONS

STATEMENT OF DONATIONS

PIONEER IRON COMPANY

Pioneer Furnace No.2

Salaries and Perquisites for the year 1904

\*\*\*\*\*

Superintendent:

|                                      |              |
|--------------------------------------|--------------|
| Salary                               | 4000.00      |
| $\frac{1}{2}$ salary Coachman        | 240.00       |
| $\frac{1}{2}$ cost feeding one horse | <u>96.00</u> |
| Total                                | 4336.00      |

Founder:

|            |               |
|------------|---------------|
| Salary     | 1800.00       |
| House Rent | <u>240.00</u> |
| Total      | 2040.00       |

**PIONEER IRON COMPANY,**

PIONEER FURNACE No. 2

**Salaries and Perquisites**

**For the year 1904**

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100.0000  
100.0000  
100.0000  
100.0000

100.0000  
100.0000  
100.0000  
100.0000



PIONEER IRON CO.,  
Pioneer Furnace #2

Statement Showing Per Cent of Divisions, Common Expense. Nov.30,'04

|              | <u>Furnace</u> | <u>Chemical Plant</u> | <u>Form.Plant</u> |
|--------------|----------------|-----------------------|-------------------|
| Lab'y Sup.   | 65             | 25                    | 10                |
| Genl. Office | 65             | 25                    | 10                |
| Elect. Light | 65             | 25                    | 10                |

THE PIONEER IRON CO.,  
Pioneer Furnace #2.

Statement Showing Per Cent  
of Division, Common Expense.

November 30, 1904.

THE PIONEER IRON CO.  
Pioneer Furnace #2

Statement Showing Per Cent of Divisions, Common Expense. Nov. 30, 1904

SALES  
GENERAL EXPENSE  
DIVISIONAL EXPENSE  
COMMON EXPENSE

|    |    |    |    |
|----|----|----|----|
| 82 | 82 | 82 | 10 |
| 82 | 82 | 82 | 10 |
| 82 | 82 | 82 | 10 |

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THE PIONEER IRON COMPANY

PIONEER FURNACE NO.2.

WOOD REPORT FOR YEAR ENDING NOVEMBER 30, 1904.

| WOOD RECEIVED                    | 1904  |    |               |           | 1903  |    |              |           |
|----------------------------------|-------|----|---------------|-----------|-------|----|--------------|-----------|
|                                  | Cords |    |               |           | Cords |    |              |           |
| Inv. Dec. 1, 1903, Fur. Kilns    |       |    | 6164          | 00        |       |    | 0            | 00        |
| " " " " " Yards                  |       |    | 3550          | 00        |       |    | 0            | 00        |
| From - - - Munising East         |       |    | 52931         | 25        |       |    | 41724        | 50        |
| " - - - " West                   |       |    | 25066         | 75        |       |    | 19050        | 75        |
| " - - - Eben                     |       |    | 8953          | 50        |       |    | 15           | 75        |
| " Along Munising                 |       |    | 2559          | 00        |       |    | 1947         | 75        |
| Chatham                          |       |    |               |           | 78    | 50 |              |           |
| Slapneck                         |       |    |               |           | 898   | 00 |              |           |
| Finn Spur                        | 2471  | 75 |               |           | 971   | 25 |              |           |
| Jenks Spur                       | 87    | 25 |               |           |       |    |              |           |
| Jobbers                          |       |    | 3367          | 00        |       |    |              |           |
| <b>Total received at Furnace</b> |       |    | <b>102591</b> | <b>50</b> |       |    | <b>62738</b> | <b>75</b> |
| <b>WOOD CONSUMED</b>             |       |    |               |           |       |    |              |           |
| Carbonized at Fur. Kilns         |       |    | 91003         | 50        |       |    | 51914        | 00        |
| Sold to Furnace Tenants          |       |    | 88            | 00        |       |    | 75           | 00        |
| Used in Furnace Boilers          |       |    | 15            | 25        |       |    |              |           |
| Used in Testing Machinery        |       |    |               |           |       |    | 1035         | 75        |
| <b>Total Consumed</b>            |       |    | <b>91106</b>  | <b>75</b> |       |    | <b>53024</b> | <b>75</b> |
| Inv. Dec. 1, 1904, Fur. Kilns    |       |    | 6293          | 00        |       |    | 6164         | 00        |
| " " " " " "                      |       |    | 5191          | 75        |       |    | 3550         | 00        |
| <b>Total</b>                     |       |    | <b>102591</b> | <b>50</b> |       |    | <b>62738</b> | <b>75</b> |

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## WOOD REPORT FOR YEAR ENDING

NOVEMBER 30, 1904.

WOOD REPORT FOR YEAR ENDING NOVEMBER 30, 1904.

PIONEER IRON COMPANY

THE PIONEER IRON COMPANY

| Item     | Quantity | Unit Price | Total   |
|----------|----------|------------|---------|
| WOOD     | 108201   | 20         | 2164020 |
| STAMP    | 3229     | 00         | 322900  |
| IRON     | 8022     | 20         | 160440  |
| STEEL    | 52098    | 12         | 625176  |
| BRASS    | 25021    | 32         | 800672  |
| COPPER   | 3220     | 00         | 322000  |
| ZINC     | 2197     | 00         | 219700  |
| LEAD     | 1043     | 12         | 12516   |
| ALUMINUM | 12       | 12         | 144     |
| OTHER    | 13020    | 12         | 156240  |
| TOTAL    | 41184    | 20         | 823680  |
| NET      | 0        | 00         | 0       |
| GROSS    | 0        | 00         | 0       |

Used in testing machinery  
Used in furnace boilers  
Used in furnace tanks  
Used in testing at P.L. Mills

| Item     | Quantity | Unit Price | Total   |
|----------|----------|------------|---------|
| WOOD     | 108201   | 20         | 2164020 |
| STAMP    | 3229     | 00         | 322900  |
| IRON     | 8022     | 20         | 160440  |
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| LEAD     | 1043     | 12         | 12516   |
| ALUMINUM | 12       | 12         | 144     |
| OTHER    | 13020    | 12         | 156240  |
| TOTAL    | 41184    | 20         | 823680  |
| NET      | 0        | 00         | 0       |
| GROSS    | 0        | 00         | 0       |

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THE PIONEER IRON COMPANY  
PIONEER FURNACE NO. 2.

Statement showing cost of Stable Expense for year 1904.

| <u>Commodities, Etc.</u>                | <u>Total Cost</u> | <u>Cost per Horse<br/>per Day.</u> |
|---|-------------------|------------------------------------|
| Hay.....                                | 192.29            | .127                               |
| Oats.....                               | 468.61            | .310                               |
| Feed.....                               | 21.26             | .014                               |
| Bran.....                               | 18.44             | .012                               |
| Middlings.....                          | 4.65              | .003                               |
| Straw.....                              | 8.40              | .006                               |
| Medicine.....                           | 9.97              | .006                               |
| Shoeing.....                            | 38.14             | .025                               |
| Repairs Wagons, Carts & Sleighs.....    | 55.30             | .037                               |
| "    Harness.....                       | 6.64              | .005                               |
| Curry Combs, Brushes, Grease, Oil, etc. | <u>6.35</u>       | <u>.004</u>                        |
| Total                                   | 830.05            | .549                               |

|                               |           |      |
|-------------------------------|-----------|------|
| 2 Horses on Cinder Carts..... | 732       | Days |
| 1 " " Breeze " .....          | 366       | "    |
| 1 " " Team Work.....          | 366       | "    |
| 2 " " " " .....               | <u>48</u> | "    |
| Total                         | 1512      | "    |

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## STATEMENT SHOWING COST OF STABLE EXPENSE-1904.

Statement showing cost of Stable Expense for Year 1904.

PIONEER FURNACE NO. 2  
THE PIONEER IRON COMPANY

|              |               |             |
|--------------|---------------|-------------|
| Repairs      | 22.30         | .087        |
| Repairs      | 29.74         | .082        |
| Repairs      | 9.32          | .068        |
| Repairs      | 8.40          | .068        |
| Repairs      | 4.82          | .063        |
| Repairs      | 78.44         | .073        |
| Repairs      | 21.32         | .074        |
| Repairs      | 493.87        | .270        |
| <b>Total</b> | <b>708.29</b> | <b>.787</b> |

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|   |               |             |
|---|---------------|-------------|
| Other Compd. Repairs, Grease, Oil, etc. | 8.32          | .074        |
| <b>Total</b>                            | <b>930.02</b> | <b>.242</b> |
| Repairs on other parts                  | 128.15        |             |
| Repairs                                 | 382           |             |
| Repairs                                 | 382           |             |
| Repairs                                 | 48            |             |
| <b>Total</b>                            | <b>1213</b>   |             |

PIONEER IRON COMPANY  
Pioneer Furnace No. 2

STATEMENT OF STEAM COAL USED FOR THE YEAR ENDING  
NOVEMBER 30TH, 1904.

| CHARGED TO                    | YOUCHIOCHENY             |          |
|-------------------------------|--------------------------|----------|
|                               | Pounds                   | Amount   |
| Furnace - - - - -             | <sup>251</sup><br>502000 | 840.85   |
| Chemical Plant - - - - -      | 3603176                  | 5700.33  |
| Formaldehyde Plant - - - - -  | 158000                   | 264.65   |
| Switching - - - - -           | 802000<br><sup>401</sup> | 1343.35  |
| Crown Dryer Company - - - - - | 2120990                  | 3764.63  |
| TOTAL - - - - -               | 7186166                  | 11913.81 |

Handwritten calculations:

$$\begin{array}{r}
 251 \overline{) 840.85} \\
 \underline{753} \phantom{00} \\
 878 \phantom{00} \\
 \underline{753} \phantom{00} \\
 1265 \phantom{00} \\
 \underline{1265} \phantom{00} \\
 0000
 \end{array}$$

3.35

$$\begin{array}{r}
 3.35 \overline{) 826.75} \\
 \underline{670} \phantom{00} \\
 1567 \phantom{00} \\
 \underline{1340} \phantom{00} \\
 2275 \phantom{00} \\
 \underline{2345} \phantom{00} \\
 0000
 \end{array}$$

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**PIONEER IRON COMPANY,**  
**PIONEER FURNACE No. 2**

**STATEMENT OF COAL USED**  
**1904.**

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|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |

STATEMENT OF COAL USED

STATEMENT OF COAL USED





PIONEER IRON COMPANY  
PIONEER FURNACE #2.

Statement of charges to rented houses and rents received during 1904

| <u>House Number</u> | <u>Repairs</u> | <u>Insurance</u> | <u>Total Charges</u> | <u>Rents Received</u> | <u>Net Rent</u> |
|---------------------|----------------|------------------|----------------------|-----------------------|-----------------|
| 1                   | .58            | 1.34             | 1.92                 | 84.00                 | 82.08           |
| 2                   | .48            | 1.34             | 1.82                 | 82.40                 | 80.58           |
| 3                   | .48            | 1.34             | 1.82                 | 83.70                 | 81.88           |
| 4                   | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 5                   | .48            | 1.34             | 1.82                 | 77.00                 | 75.18           |
| 6                   | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 7                   | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 8                   | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 9                   | .48            | 1.34             | 1.82                 | 81.65                 | 79.83           |
| 10                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 11                  | .48            | 1.34             | 1.82                 | 81.00                 | 79.18           |
| 12                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 13                  | .48            | 1.34             | 1.82                 | 78.60                 | 76.78           |
| 14                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 15                  | .48            | 1.34             | 1.82                 | 91.00                 | 89.18           |
| 16                  | .48            | 1.34             | 1.82                 | 90.60                 | 88.78           |
| 17                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 18                  | .48            | 1.34             | 1.82                 | 80.50                 | 78.68           |
| 19                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 20                  | .48            | 1.34             | 1.82                 | 84.00                 | 82.18           |
| 21                  |                | 1.32             | 1.32                 | 52.50                 | 51.18           |
| 22                  |                | 1.32             | 1.32                 | 52.50                 | 51.18           |
| 23                  |                | 1.32             | 1.32                 | 70.00                 | 68.68           |
| 24                  |                | 1.32             | 1.32                 | 70.00                 | 68.68           |
| 25                  |                | 1.32             | 1.32                 | 70.00                 | 68.68           |
| 26                  |                | 1.32             | 1.32                 | 67.90                 | 66.58           |
| 27                  |                | 1.32             | 1.32                 | 66.50                 | 65.18           |
| 28                  |                | 1.32             | 1.32                 | 66.50                 | 65.18           |
| 29                  |                | 1.32             | 1.32                 | 58.00                 | 56.68           |
| 30                  |                | 1.32             | 1.32                 | 65.05                 | 63.73           |
| Italian Club House  |                | 18.68            | 18.68                | 20.00                 | 1.32            |
|                     | 9.70           | 58.68            | 68.38                | 2329.40               | 2261.02         |

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P I O N E E R I R O N C O M P A N Y.

Pioneer Furnace No. 2.

List of Unpaid Vouchers.

November 30, 1904.

| <u>NO.</u> | <u>IN FAVOR OF</u>            | <u>AMOUNT</u> |
|------------|-------------------------------|---------------|
| 1445       | C. D. Mason                   | \$ 20.20      |
| 1446       | J. E. Tobin, Agt.             | 315.00        |
| 1447       | Standard Oil Co.              | 25.48         |
| 1448       | John B. Mangumen              | 10.00         |
| 1449       | W. Bingham Co.                | 12.60         |
| 1450       | Dr. T. N. Cunningham          | 154.00        |
| 1451       | Isafore Cyr                   | 12.20         |
| 1452       | Ben Cook                      | .60           |
| 1453       | Delta Hdw. Co.                | 28.03         |
| 1454       | N. D. Hodgkins, Prop.         | 16.00         |
| 1455       | Michigan Telephone Co.        | 2.90          |
| 1456       | Morrison-Plumber Co.          | .90           |
| 1457       | Munising Ry. Co.              | .25           |
| 1458       | M. & S. E. Ry. Co.            | 21.26         |
| 1459       | Westinghouse Elec. & Mfg. Co. | 37.27         |
| 1460       | Marshall-Wells Hdw. Co.       | 25.04         |
| 1461       | A. J. Pearce                  | 91.00         |
| 1462       | Peter Puistinem               | 62.92         |
| 1463       | Amos Pauletz                  | 14.40         |
| 1464       | E. H. Sargent & Co.           | 16.00         |
| 1465       | I. E. Swift Co.               | 30.51         |
| 1466       | H. S. Smith                   | 20.00         |
| 1467       | Various Men, Marquette        | 235.22        |
| 1470       | Marquette City Taxes          | 2719.50       |
| 1471       | Onota Township Taxes          | 284.42        |
| 1472       | Rock River Township Taxes     | 393.87        |
| 1473       | Au Train Township "           | 454.50        |
|            | Total                         | \$ 5004.07    |

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## List of Unpaid Vouchers November 30th, 1904.

| NO.  | NAME                          | AMOUNT     |
|------|-------------------------------|------------|
| 1472 | VT LESTIN COMPANY             | \$ 2005.00 |
| 1473 | "                             | 424.20     |
| 1474 | КОСК БЛАГЪ КОМПАНИЪ БУХЪ      | 302.84     |
| 1475 | ОНОФЪ КОМПАНИЪ БУХЪ           | 884.48     |
| 1476 | КЪДЖЕТТЕ СИФА БУХЪ            | 3416.20    |
| 1477 | АШТОРА МЕНЪ КЪДЖЕТТЕ          | 822.88     |
| 1478 | Н. С. СМЪТЪ                   | 80.00      |
| 1479 | И. Е. СМЪТЪ СО.               | 20.21      |
| 1480 | Е. Н. СЪЛЕНЪ СО.              | 12.00      |
| 1481 | УМОЗ БЪЛЪТЪ                   | 14.40      |
| 1482 | БЕЛЪ БЪЛЪТЪ                   | 23.38      |
| 1483 | У. Т. БЕЛЪСЪ                  | 31.00      |
| 1484 | КЪЛЪСЪТЪ-АШЪТЪ НЪА. СО.       | 82.04      |
| 1485 | АЕАТЪЕРЪОНЪЕ БЪСЪ. & НЪА. СО. | 24.34      |
| 1486 | Н. & С. Е. БЪ. СО.            | 31.32      |
| 1487 | КЪЛЪСЪТЪ БЪ. СО.              | 88.00      |
| 1488 | КОЛЪТЪОНЪ-БЪТЪМЪРЪ СО.        | 124.00     |
| 1489 | НЪСЪТЪСЪ БЪЛЪСЪОНЪ СО.        | 88.00      |
| 1490 | И. Д. НОУКЪТЪ. БЪОБ.          | 18.30      |
| 1491 | БЪЛЪСЪ НЪА. СО.               | 124.00     |
| 1492 | НЕНЪ СЪОКЪ                    | 18.00      |
| 1493 | ИЪСЪОЪ СЪАЪ                   | 18.00      |
| 1494 | ДЪ. Е. Н. СЪУНЪСЪРЪ           | 18.00      |
| 1495 | А. БЪНЪРЪНЪ СО.               | 82.48      |
| 1496 | ТЪРНЪ Б. НЪУКЪТЪ              | 314.00     |
| 1497 | СЪСЪЧЪСЪО ОЪТЪ СО.            | 80.00      |
| 1498 | Т. Е. ТЪРНЪ ВЪТЪ.             | 2          |
| 1499 | С. Д. НЪСЪОНЪ                 | 2          |

ИЪ БЪАОНЪ СЪ

ЛЪСЪТЪ ОЪ БЪЛЪТЪ ОНЪСЪРЪ. НОУЕМЪРЪ 30, 1904.

БЪОУСЪЛЪ БЪЛЪСЪСЪ НО. 8.

БЪОУСЪЛЪ БЪЛЪСЪСЪ НО. 8.

PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

STOCK ACCOUNTS

November 30, 1904.

|                                    | Quantity    | Amount                  | Rate           |
|------------------------------------|-------------|-------------------------|----------------|
| <b>SUPPLIES:</b>                   |             |                         |                |
| Furnace.....                       |             | 3485.21                 |                |
| Chemical.....                      |             | 2644.80                 |                |
| Laboratory.....                    |             | 277.74                  |                |
| Stock of Coal.....                 |             | 18871.16                |                |
| Munising East Barn.....            |             | 111.00                  |                |
| Munising West Barn.....            |             | 324.60                  |                |
| Eben Barn.....                     |             | 121.00                  |                |
| <b>EQUIPMENT:</b>                  |             |                         |                |
| Furnace.....                       |             | 23497.68                |                |
| Camp Barn.....                     |             | 13007.55                |                |
| Carp Kilns                         |             | 119.94                  |                |
| <b>ORE:</b>                        |             |                         |                |
|                                    | Tons Lbs.   |                         |                |
| Lake.....                          | 428         | 808.59                  | 1.889          |
| Cliffs Shaft.....                  | <u>143</u>  | 389.00                  | 2.720          |
|                                    | 571         |                         |                |
| <b>WOOD:</b>                       |             |                         |                |
|                                    | Cords       | 32nds                   |                |
| Furnace.....                       | 5191        | 24                      | 12914.61 2.487 |
| In Kilns.....                      | 6293        |                         | 14092.92 2.239 |
| In Carp Kilns.....                 | 1568        | 04                      | 3731.90 2.380  |
| Munising East.....                 | 58124       | 24                      | 64839.44 1.115 |
| Munising West.....                 | 21066       | 16                      | 22785.17 1.081 |
| Eben.....                          | 11674       | 20                      | 13406.63 1.148 |
| Along Munising Ry.....             | <u>2907</u> | <u>04</u>               | 5416.77 1.863  |
|                                    | 106825      | 28                      |                |
| <b>LIMESTONE:</b>                  |             |                         |                |
|                                    | 651         | <u>825.27</u>           | 1.267          |
| <b>Total</b>                       |             | <b><u>201670.98</u></b> |                |
| Nov. 1904 Trial Balance Item No.44 |             | 25835.51                |                |
| " " " " " " 46                     |             | 36625.17                |                |
| " " " " " " 48                     |             | 1197.59                 |                |
| " " " " " " 50                     |             | 137187.44               |                |
| " " " " " " 52                     |             | <u>825.27</u>           |                |
| <b>Total</b>                       |             | <b>201670.98</b>        |                |

## FURNACE GENERAL EXPENSE:

15,181.25

|                       |   |   |   |   |          |
|-----------------------|---|---|---|---|----------|
| Analysis & Testing    | - | - | - | - | 1,825.40 |
| Office                | - | - | - | - | 8,334.57 |
| Stationery & Printing | - | - | - | - | 78.75    |
| Accident              | - | - | - | - | 25.00    |
| Taxes                 | - | - | - | - | 4,846.61 |
| Fire Insurance        | - | - | - | - | 70.92    |

## FURNACE MAINTENANCE:

9,397.00

|                         |   |   |   |   |          |
|-------------------------|---|---|---|---|----------|
| Tracks & Yard           | - | - | - | - | 1,179.49 |
| Trestles & Dock         | - | - | - | - | 134.62   |
| Buildings               | - | - | - | - | 555.60   |
| Ore Bins                | - | - | - | - | 19.69    |
| Dwellings Not Rented    | - | - | - | - | 247.33   |
| Machinery               | - | - | - | - | 22.46    |
| Pumps                   | - | - | - | - | 164.21   |
| Blowing Engine          | - | - | - | - | 96.15    |
| Boilers                 | - | - | - | - | 104.52   |
| Steam Separator         | - | - | - | - | 126.04   |
| Stokers                 | - | - | - | - | 6.47     |
| Top House Machinery     | - | - | - | - | 26.63    |
| Hoist Engine            | - | - | - | - | 52.85    |
| Coal Car Motor          | - | - | - | - | 47.07    |
| Fan Engine              | - | - | - | - | 14.58    |
| Boiler Piping           | - | - | - | - | 111.60   |
| Pyrometer               | - | - | - | - | 47.33    |
| Hoist                   | - | - | - | - | 221.73   |
| Economizers             | - | - | - | - | 13.50    |
| Tuyeres                 | - | - | - | - | 326.54   |
| Coolers                 | - | - | - | - | 3.51     |
| Relinings & Renewals    | - | - | - | - | 4,225.60 |
| Water Supply            | - | - | - | - | 157.96   |
| Cast House Water Supply | - | - | - | - | 1.22     |
| Stock House Tracks      | - | - | - | - | 35.39    |
| Scale Car               | - | - | - | - | 66.39    |
| Pig Iron Trucks         | - | - | - | - | 29.29    |
| Coal Buggies            | - | - | - | - | 303.30   |
| Stack                   | - | - | - | - | 113.37   |
| Stoves                  | - | - | - | - | 308.79   |
| Cleaning Up             | - | - | - | - | 633.77   |

## FURNACE OPERATING:

554,877.21

|                                       |            |
|---------------------------------------|------------|
| Machinery - - - - -                   | 13.03      |
| Coal Crusher Apparatus - - - - -      | 4.14       |
| Boilers - - - - -                     | 79.49      |
| Cleaning Boilers - - - - -            | 169.66     |
| Fan Engine - - - - -                  | 5.25       |
| Hoisting Apparatus - - - - -          | 38.67      |
| Blowing Engine - - - - -              | 537.99     |
| Firemen - - - - -                     | 472.57     |
| Fan Engineers - - - - -               | 605.80     |
| Wipers - - - - -                      | 422.09     |
| Oilers - - - - -                      | 474.17     |
| Blow Engine Engineers - - - - -       | 753.00     |
| Top House Machinery - - - - -         | 27.05      |
| Water Supply - - - - -                | 1.28       |
| Pumps - - - - -                       | 10.83      |
| Electric Light & Power - - - - -      | 1,100.48   |
| Electric Engine - - - - -             | 8.94       |
| Scale Car Motormen - - - - -          | 1,371.94   |
| Bottom Fillers - - - - -              | 1,374.03   |
| Scale Car Motor - - - - -             | 7.94       |
| Scale Car - - - - -                   | 14.43      |
| Hoistmen - - - - -                    | 1,294.90   |
| Top Fillers - - - - -                 | 1,405.32   |
| Handling Iron - - - - -               | 5,677.31   |
| Handling Cinder - - - - -             | 3,465.91   |
| Weigher & Grader - - - - -            | 640.50     |
| Founders, Keepers & Helpers - - - - - | 10,062.12  |
| Coal Forkers - - - - -                | 8,630.91   |
| Coal Car Motormen - - - - -           | 1,312.54   |
| Coal Car Brakemen - - - - -           | 1,179.63   |
| Coal Car Motor - - - - -              | 20.65      |
| Casting Tools - - - - -               | 786.05     |
| Sand & Clay - - - - -                 | 676.93     |
| Cleaning Stoves - - - - -             | 538.83     |
| Ores - - - - -                        | 200,201.49 |
| Fuel - - - - -                        | 928.40     |
| Charcoal - - - - -                    | 249,221.23 |
| Limestone - - - - -                   | 1,606.21   |
| Loading Iron ( Cars ) - - - - -       | 494.52     |
| Loading Iron ( Vessels ) - - - - -    | 10,973.99  |
| Switching - - - - -                   | 107.51     |
| Dep. of New Construction - - - - -    | 42,160.62  |
| Dep. of Equipment - - - - -           | 5,998.86   |

## CHEMICAL GENERAL EXPENSE:

15,806.22

|                                 |          |
|---------------------------------|----------|
| Office - - - - -                | 4,663.86 |
| Fire Insurance - - - - -        | 5,199.96 |
| Analysis & Testing - - - - -    | 986.29   |
| Taxes - - - - -                 | 4,846.61 |
| Traveling - - - - -             | 80.50    |
| Stationery & Printing - - - - - | 29.00    |

## CHEMICAL MAINTENANCE:

6,014.66

|                                  |        |
|----------------------------------|--------|
| Tanks & Stills - - - - -         | 992.85 |
| Piping - - - - -                 | 943.84 |
| Burcey Pans - - - - -            | 2.61   |
| Tar Troughs & Tanks - - - - -    | 22.87  |
| Smoke Condensers - - - - -       | 528.66 |
| Machinery - - - - -              | 10.90  |
| Coal Crusher Engine - - - - -    | 1.24   |
| Economizers - - - - -            | 21.50  |
| Blowing Engine - - - - -         | 140.91 |
| Liquor Pumps - - - - -           | 25.99  |
| Pumps - - - - -                  | 248.53 |
| Water Power Machinery - - - - -  | 9.88   |
| Lime Pump - - - - -              | 3.13   |
| Fan Engine - - - - -             | 21.83  |
| Coal Crusher Apparatus - - - - - | 28.93  |
| Boilers - - - - -                | 132.72 |
| Stokers - - - - -                | 16.89  |
| Gas Mains - - - - -              | 47.43  |
| Steam Piping - - - - -           | 972.25 |
| Steam Seperator - - - - -        | 164.55 |
| Boiler Piping - - - - -          | 161.26 |
| Fans & Pulleys - - - - -         | 133.07 |
| Smoke Maines - - - - -           | 317.45 |
| Buildings - - - - -              | 517.44 |
| Water Supply - - - - -           | 254.22 |
| Cleaning Up - - - - -            | 213.04 |
| Ditch - - - - -                  | 63.95  |
| Condensers - - - - -             | 15.72  |

## CHEMICAL OPERATING:

86,045.53

|                                    |           |
|------------------------------------|-----------|
| Foreman - - - - -                  | 1,230.30  |
| Stillmen - - - - -                 | 8,019.35  |
| Blow Engine Engineers - - -        | 1,113.46  |
| Fan Engineers - - - - -            | 896.16    |
| Firemen - - - - -                  | 707.24    |
| Condensermen - - - - -             | 1,245.42  |
| Machinery - - - - -                | 11.95     |
| Oilers - - - - -                   | 699.30    |
| Wipers - - - - -                   | 624.19    |
| Gas Fan Motor - - - - -            | 37.73     |
| Water Power Machinery - - -        | 20        |
| Pumps - - - - -                    | 34.35     |
| Coal Crusher Apparatus - - -       | 6.56      |
| Blow Engine - - - - -              | 793.41    |
| Smoke Fans - - - - -               | 15.05     |
| Fan Engine - - - - -               | 20.69     |
| Boilers - - - - -                  | 121.94    |
| Steam Piping - - - - -             | 11.31     |
| Cleaning Boilers - - - - -         | 221.82    |
| Fuel - - - - -                     | 6,065.38  |
| Electric Engine - - - - -          | 13.41     |
| Electric Light & Power - - -       | 948.54    |
| Lime - - - - -                     | 8,455.25  |
| Chemicals - - - - -                | 420.00    |
| Depreciation of New Construction - | 42,609.37 |
| Loading - - - - -                  | 271.07    |
| Switching - - - - -                | 26.41     |
| Barrels - - - - -                  | 11,423.80 |
| Water Supply - - - - -             | 1.87      |

## ACETATE OPERATING:

1,968.35

|                               |          |
|-------------------------------|----------|
| Crown Dryer Company - - - - - | 1,758.01 |
| Switching - - - - -           | 1.98     |
| Sacking Acetate - - - - -     | 8.76     |
| Loading - - - - -             | 84.32    |
| Sacks - - - - -               | 115.28   |



FORMALDEHYDE GENERAL EXPENSE:

1,438.36

|                                 |          |
|---------------------------------|----------|
| Office - - - - -                | 1,012.65 |
| Analysis & Testing - - - - -    | 415.71   |
| Stationery & Printing - - - - - | 10.00    |

FORMALDEHYDE MAINTENANCE:

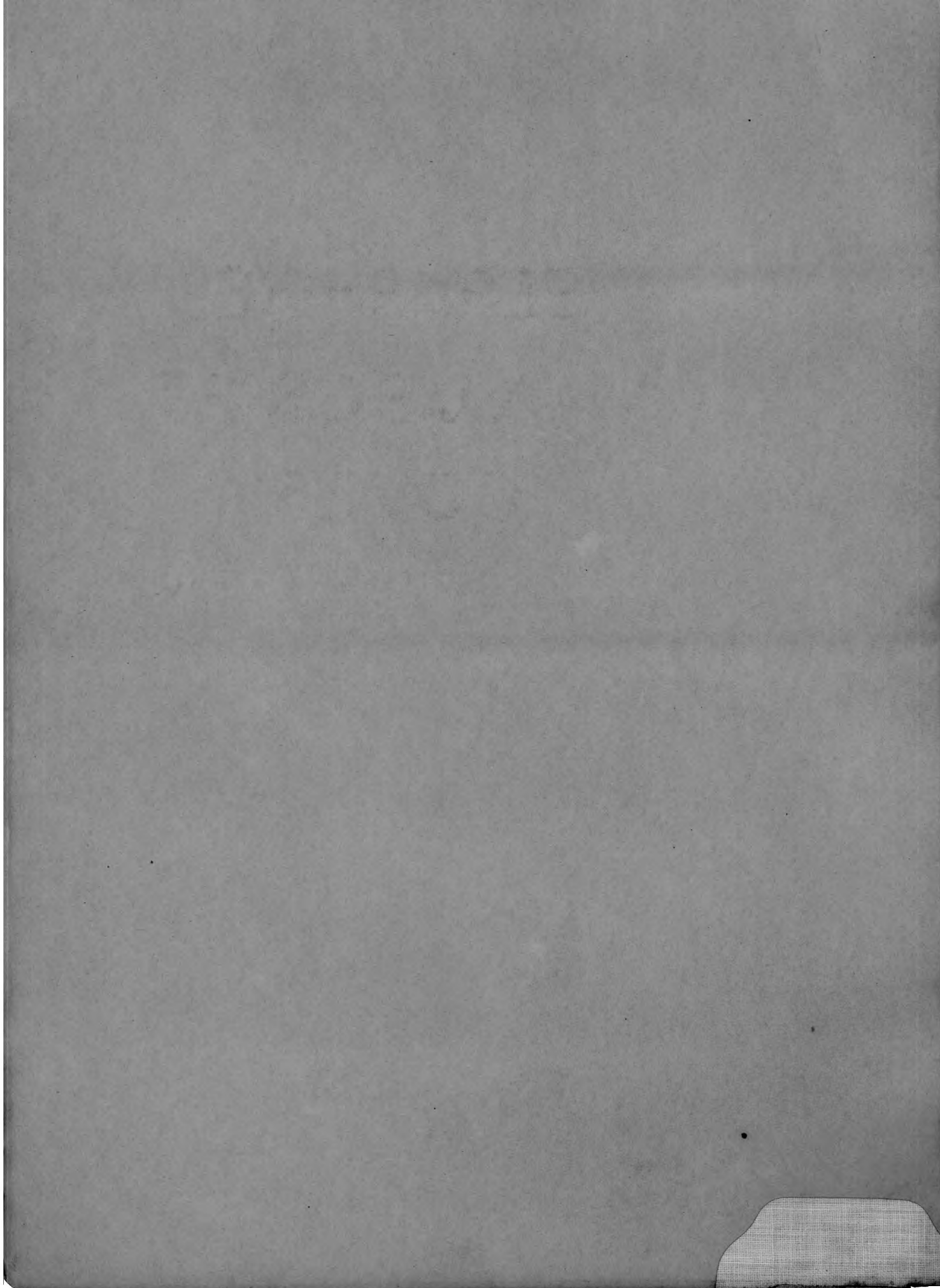
7.74

|                  |      |
|------------------|------|
| Piping - - - - - | 7.74 |
|------------------|------|

FORMALDEHYDE OPERATING:

9,828.19

|                                  |          |
|----------------------------------|----------|
| Alcohol - - - - -                | 6,545.00 |
| Stillmen - - - - -               | 691.67   |
| Blow Engine Engineers - - - - -  | 24.33    |
| Oilers - - - - -                 | 16.89    |
| Wipers - - - - -                 | 13.47    |
| Fan Engineers - - - - -          | 19.30    |
| Firemen - - - - -                | 14.88    |
| Machinery - - - - -              | 15.76    |
| Electric Light & Power - - - - - | 103.10   |
| Blowing Engine - - - - -         | 7.79     |
| Fan Engine - - - - -             | 5        |
| Coal Crusher Apparatus - - - - - | 5        |
| Pumps - - - - -                  | 1.00     |
| Fuel - - - - -                   | 267.05   |
| Depreciation - - - - -           | 1,654.65 |
| Switching - - - - -              | 90       |
| Loading - - - - -                | 23.40    |
| Packages - - - - -               | 428.90   |



PIONEER IRON COMPANY.

Pioneer Furnace #2.

NEW CONSTRUCTION TRIAL BALANCE

NOVEMBER 30, 1904.

FURNACE:

Stack Foundation:

|                 |        |
|-----------------|--------|
| Excavation Work | 181.24 |
| Concrete Work   | 306.18 |
| Stone Work      | 700.40 |
| Total           |        |

1187.82 ✓

Stove Foundations:

|                 |         |
|-----------------|---------|
| Excavation Work | 271.51  |
| Concrete Work   | 1448.35 |
| Brick Work      | 410.79  |
| Total           |         |

2130.65 ✓

Stove Chimney Foundations:

|                 |        |
|-----------------|--------|
| Excavation Work | 164.43 |
| Concrete Work   | 277.91 |
| Coping          | 597.63 |
| Stone Work      | 503.39 |
| Brick Work      | 133.10 |
| Total           |        |

1676.46 ✓

Boiler Foundation:

|                 |        |
|-----------------|--------|
| Excavation Work | 149.65 |
| Concrete Work   | 335.97 |
| Settings        | 35.23  |
| Total           |        |

520.85 ✓

Boiler House Foundation:

|                 |        |
|-----------------|--------|
| Excavation Work | 87.14  |
| Concrete Work   | 290.49 |
| Stone Work      | 380.20 |
| Coping          | 90.53  |
| Total           |        |

848.36 ✓

Boiler Feed Pump Foundation:

|               |       |
|---------------|-------|
| Concrete Work | 34.48 |
| Brick Work    | 11.98 |
| Total         |       |

46.46 ✓

Cast House Foundation:

|                                |         |
|--------------------------------|---------|
| Excavation Work                | 244.20  |
| Concrete Work                  | 977.17  |
| Stone Work                     | 2737.83 |
| Coping                         | 992.85  |
| Cinder Bed Excavation          | 30.83   |
| Cinder Bed Concrete            | 131.90  |
| Ret. Wall R.C.H. Conc.Wk.      | 167.12  |
| Ret. Wall R.C.H. Excav. Wk.    | 98.49   |
| Elev. Tk. Ret. Wall Excav. Wk. | 51.08   |
| Elev. Tk. Ret. Wall Conc. Wk.  | 52.85   |
| Driveway Found. Excav.         | 46.22   |
| Driveway Found. Conc.          | 52.04   |
| Total                          | 5582.58 |

5582.58 ✓

Engine & P. H. Foundation:

|                 |        |
|-----------------|--------|
| Excavation Work | 192.41 |
| Concrete Work   | 204.44 |
| Stone Work      | 166.58 |
| Coping          | 54.28  |
| Total           |        |

617.71 ✓

|                               |         |  |           |
|-------------------------------|---------|--|-----------|
| Blow Engine Foundation:       |         |  |           |
| Foundation                    | 614.67  |  |           |
| Brick Work                    | 1293.03 |  |           |
| Total                         |         |  | 1907.70 ✓ |
| Pump Foundation:              |         |  |           |
| Concrete Work                 | 84.11   |  |           |
| Brick Work                    | 129.55  |  |           |
| Total                         |         |  | 213.66 ✓  |
| Cond. Mach. H. W. Foundation: |         |  |           |
| Concrete Work                 | 134.72  |  |           |
| Brick Work                    | 25.17   |  |           |
| Total                         |         |  | 159.89 ✓  |
| Gas Main for Stoves:          |         |  |           |
| Excavation Work               | 66.92   |  |           |
| Concrete Work                 | 287.74  |  |           |
| Total                         |         |  | 354.66 ✓  |
| Gas Main for Boilers:         |         |  |           |
| Excavation Work               | 27.59   |  |           |
| Concrete Work                 | 179.48  |  |           |
| Total                         |         |  | 207.07 ✓  |
| Stand Pipe Foundation:        |         |  |           |
| Excavation Work               | 44.09   |  |           |
| Concrete Work                 | 87.39   |  |           |
| Coping                        | 22.19   |  |           |
| Total                         |         |  | 153.67 ✓  |
| Condenser Foundation:         |         |  |           |
| Excavation Work               | 47.80   |  |           |
| Concrete Work                 | 220.35  |  |           |
| Brick Work                    | 9.04    |  |           |
| Total                         |         |  | 277.19 ✓  |
| Dust Catcher Foundation:      |         |  |           |
| Excavation Work               | 85.18   |  |           |
| Concrete Work                 | 158.31  |  |           |
| Stone Work                    | 333.65  |  |           |
| Coping                        | 23.64   |  |           |
| Total                         |         |  | 600.78 ✓  |
| Stove Chim. Flue Foundation:  |         |  |           |
| Excavation Work               | 60.91   |  |           |
| Concrete Work                 | 236.58  |  |           |
| Brick Work                    | 952.84  |  |           |
| Total                         |         |  | 1250.33 ✓ |
| Stock House Foundation:       |         |  |           |
| Excavation Work               | 123.74  |  |           |
| Concrete Work                 | 255.72  |  |           |
| Caps                          | 291.53  |  |           |
| Total                         |         |  | 670.99 ✓  |
| Stock Bin Foundation:         |         |  |           |
| Excavation Work               | 943.31  |  |           |
| Concrete Work                 | 1619.12 |  |           |
| Caps                          | 790.00  |  |           |
|                               |         |  | 3352.43 ✓ |

|                                 |         |         |   |
|---------------------------------|---------|---------|---|
| Stock House Trestle Foundation: |         |         |   |
| Excavation Work                 | 427.61  |         |   |
| Concrete Work                   | 926.84  |         |   |
| Total                           |         | 1354.45 | ✓ |
| Hoist House Foundation:         |         |         |   |
| Excavation Work                 | 64.87   |         |   |
| Concrete Work                   | 133.81  |         |   |
| Coping                          | 33.24   |         |   |
| Total                           |         | 231.92  | ✓ |
| Induced Draft Apparatus Found.: |         |         |   |
| Excavation Work                 | 86.90   |         |   |
| Concrete Work                   | 356.08  |         |   |
| Total                           |         | 442.98  | ✓ |
| Skip. Tk. & Inc. Plane Found.:  |         |         |   |
| Excavation Work                 | 388.28  |         |   |
| Concrete Work                   | 964.04  |         |   |
| Caps                            | 22.16   |         |   |
| Total                           |         | 1374.48 | ✓ |
| Site:                           |         |         |   |
| Draining                        | 3699.83 |         |   |
| Filling                         | 2565.72 |         |   |
| Clearing                        | 1237.60 |         |   |
| Testing                         | 118.53  |         |   |
| Total                           |         | 7621.68 | ✓ |
| Furnace Water Supply:           |         |         |   |
| Soundings                       | 10.42   |         |   |
| Excavation & Filling            | 450.56  |         |   |
| Sheet Piling                    | 82.63   |         |   |
| Piping                          | 817.24  |         |   |
| Total                           |         | 1360.85 | ✓ |
| Iron Yard Walls:                |         |         |   |
| Excavation Work                 | 457.74  |         |   |
| Concrete Work                   | 7300.08 |         |   |
| Total                           | 7757.82 |         |   |
| Iron Yard Dock:                 |         |         |   |
| Filling                         | 3693.66 |         |   |
| Tracks                          | 3733.84 |         |   |
| Total                           |         | 7427.50 | ✓ |
| Uldg. Erect'g & Plac. Machy:    |         |         |   |
| Electric Engines                | 151.78  | ✓       |   |
| Pumps                           | 99.03   | ✓       |   |
| Blowing Engines                 | 761.87  | ✓       |   |
| Furnace Condenser               | 66.18   | ✓       |   |
| Mach. Shop Machy & Shaft'g      | 220.48  | ✓       |   |
| Otis Hoist                      | 81.36   | ✓       |   |
| Machine Shop Power              | 30.50   | ✓       |   |
| Total                           |         | 1411.20 | ✓ |

## Miscellaneous:

|                                 |          |
|---------------------------------|----------|
| Testing Boilers                 | 36.14x   |
| Testing Machinery               | 3563.69x |
| Electric Mach'y Foundation      | 167.70x  |
| Drying out Furnace              | 958.23x  |
| Hoist Apparatus                 | 513.16x  |
| Furnace Condenser               | 37.50x   |
| Furnace Steam Piping            | 6.65x    |
| Stand Pipe                      | 6.60x    |
| Fan Eng. Found. Conc.Work       | 9.97x    |
| Hoist Eng.Foundation            | 21.39x   |
| Dust Catcher Foundation         | 2.07x    |
| Stock Bins                      | 1073.80x |
| Stock H. Trest.Tail Track       | 122.01x  |
| Unldg. & Cov'g Furnace Cstg.    | 197.65x  |
| Office Sidewalk                 | 61.20x   |
| Stock H. Transfer Track         | 1437.07x |
| Top House Pumps                 | 337.62x  |
| Cast House Fillings             | 564.25x  |
| Cleaning Around Plant           | 367.65x  |
| Pig Iron Trough                 | 35.70x   |
| Pig Iron Patterns               | 1.27x    |
| Tuyeres                         | 159.80x  |
| Cinder Run                      | 514.19x  |
| Blow Eng. Grease Cups           | 2.28x    |
| Economizer Valve Stem           | .61x     |
| Furnace Cooler Plates           | 26.12x   |
| Hd. for Hot Blast Pipe          | 65.48x   |
| Cleaning Door for Stove         | 2.50x    |
| Furnace Bleeder Pipe            | 26.00x   |
| Electric Motors                 | 268.69x  |
| Blow Engine Valve               | 233.78x  |
| Tie Roads                       | 198.03x  |
| Furnace Well                    | 20.63x   |
| Inspecting Rivets               | 212.84x  |
| Frt on Machinery from Southwork | 796.63x  |
| Office Pipe Trench              | 763.32x  |
| Suction Tk. & Intk. Pipe        | 85.18x   |
| Intake Anchorage                | 59.34x   |
| Laboratory Piping               | 182.91x  |
| Sewer Pipe Anchorage            | 206.99x  |
| Pump H. Pipe Covering           | 20.81x   |
| Furnace Paving                  | 2033.37x |
| Installing Stk. H. Scales       | 551.71x  |
| Installing Iron Yd.Scales       | 158.49x  |
| Engine House Floor              | 302.01x  |
| Mach'y Electric Wiring          | 11.37x   |
| Pig Iron Trestle                | 414.93x  |
| Furnace Signals                 | 158.28x  |
| Cast House Tools                | 256.98x  |
| Boiler Fittings                 | 11.71x   |
| Top House W. Supply             | 466.21x  |
| Ind. Draft App.Piping           | 29.10x   |
| Drawing out Stoves              | 404.52x  |
| Boiler Ladders                  | 21.25x   |
| Stove Valves                    | 79.89x   |
| Economizer Piping               | 31.23x   |
| Boiler Piping                   | 27.52x   |
| Office Wiring                   | 64.81x   |
| Condenser Pumps                 | 13.50x   |

For'd

18404.33

|                            |          |
|----------------------------|----------|
| Furnace Dry House          | 162.07   |
| Pyrometer                  | 1196.05  |
| Circular Plates for Stack  | 79.72    |
| Fence                      | 345.78   |
| Top House Telephone        | 28.65    |
| Furnace Sidewalk           | 18.80    |
| Supt's Residence           | 10649.50 |
| Blow Eng.Pipe Covering     | 40.38    |
| Crusher Foundation         | 309.20   |
| Crusher Machinery          | 1345.555 |
| Track & Trestles           | 13465.42 |
| Crusher                    | 1530.79  |
| Crusher Elev.& Eng. Bldgs. | 744.36   |
| Crusher Motor              | 984.66   |
| Sand Track                 | 354.87   |
| Top Ho.Pipe Cov.           | 154.60   |
| Clock(Blow Eng.Room)       | 25.00    |
| Total                      |          |

49839.73

## General Expense:

|                        |         |
|------------------------|---------|
| Engineering            | 2774.22 |
| Stationery & Printing  | 670.16  |
| Petty Office Expense   | 35.90   |
| Exchange               | 51.89   |
| Frt.Expense & Drayage  | 67.91   |
| Livery                 | 86.75   |
| Traveling              | 2687.01 |
| Postage                | 315.19  |
| Photographs            | 92.30   |
| Telephones & Telegrams | 1061.75 |
| Water Temp.Tests       | 5.45    |
| Office Fuel & Light    | 106.73  |
| Insurance              | 396.50  |
| Watchman               | 506.63  |
| Clerk                  | 1820.00 |
| Entertaining           | 25.00   |
| Boulevard Tax          | 2078.09 |
| Taxes                  | 321.89  |
| Accident               | 22.50   |
| Legal                  | 21.00   |
| General Office Expense | 669.22  |
| Total                  |         |

13816.09

## Building:

|                        |         |
|------------------------|---------|
| Cast House             | 4398.76 |
| Bl'r.Firing Floor      | 193.86  |
| Bl'r H. Building       | 87.98   |
| Hoist Eng. H.Building  | 114.20  |
| Stock House Door       | 196.66  |
| Stock House Floor      | 4282.23 |
| Locomotive House       | 2393.98 |
| Pump House Conc. Floor | 103.14  |
| Pyrometer House        | 89.69   |
| Temporary Office Bldg. | 300.68  |
| Cement Shed            | 172.93  |
| Street Car Station     | 9.35    |
| Mach. ,B.S.& Supply H. | 2654.51 |
| Carp.Shop              | 276.95  |
| Eng. & P.H. Bldg.      | 4422.83 |
| Stock House Bldg.      | 584.23  |
| Temporary Scale House  | 147.06  |
| Eng.House Floor        | 185.07  |
| Barn                   | 43.67   |

Forward

20657.78

|                               |           |            |           |
|-------------------------------|-----------|------------|-----------|
| Buildings:                    | Continued | 20657.78   |           |
| Office                        |           | 1883.71 ✓  |           |
| Top House Shanty              |           | 71.34 ✓    | 22612.83  |
| Fire Brick Work:              |           |            |           |
| Stove Linings                 |           | 21703.71 ✓ |           |
| Stack Linings                 |           | 9149.58 ✓  |           |
| Piping Linings                |           | 6562.57 ✓  |           |
| Chimney Linings               |           | 1620.15 ✓  |           |
| Total                         |           |            | 39036.01  |
| Painting:                     |           |            |           |
| Stack                         |           | 18.20 ✓    |           |
| Stove                         |           | 62.92 ✓    |           |
| Chimney                       |           | 12.14 ✓    |           |
| Stand Pipe                    |           | 7.85 ✓     |           |
| Piping                        |           | 102.40 ✓   |           |
| Ind.Draft Apparatus           |           | 11.94 ✓    |           |
| Stock House                   |           | 1211.93 ✓  |           |
| Boiler House Apparatus        |           | 280.21 ✓   |           |
| Stirling Boilers              |           | 51.10 ✓    |           |
| Office                        |           | 50.00 ✓    |           |
| Total                         |           |            | 1808.69   |
| Contractors:                  |           |            |           |
| Southwark Fdry. & Machine Co. |           |            |           |
| Blowing Engines               |           | 12632.05 ✓ |           |
| Condenser Plant               |           | 2168.50 ✓  |           |
| S. B. Pollock & Co.           |           |            |           |
| Furnace Casing, etc.          |           | 44876.92 ✓ |           |
| F. C. Roberts & Co.           |           |            |           |
| Commissions                   |           | 27077.66 ✓ |           |
| Northern Construction Co.     |           |            |           |
| Stk. H. Trestle in Stk.H.     |           |            |           |
| Eng. & P.H.Roof               |           | 22562.60 ✓ |           |
| Stirling Co.                  |           |            |           |
| Boilers                       |           | 11149.02 ✓ |           |
| American Bridge Co.           |           |            |           |
| Furnace Const. Work           |           | 41132.92 ✓ |           |
| B. F. Strutevant & Co.        |           |            |           |
| Economizers                   |           | 5970.00 ✓  |           |
| Logemann Bros.                |           |            |           |
| Intk. Pipe Material           |           | 5273.00 ✓  |           |
| Rennseler Mfg. Co.            |           |            |           |
| Sluice Gate Co.               |           | 603.00 ✓   |           |
| Otis Elevator Co.             |           |            |           |
| Hoist Machine                 |           | 3375.00 ✓  |           |
| F. M. Prescott S.P.Co.        |           |            |           |
| Pumping Engines               |           | 4800.00 ✓  |           |
| Boiler Feed Pump              |           | 825.00 ✓   |           |
| Best Mfg. Co.                 |           |            |           |
| Furnace Bronze Work           |           | 5243.75 ✓  |           |
| Powell & Mitchell             |           |            |           |
| Intak. Pipe & Suction Tk.     |           | 8000.00 ✓  |           |
| Powell & Mitchell             |           |            |           |
| Trestle No.2                  |           | 7825.00 ✓  |           |
| Baker, Smith & Co.            |           |            |           |
| Cast Iron Water Pipe          |           | 17884.00 ✓ |           |
|                               | Forward   |            | 221398.42 |



|                              |           |            |           |
|------------------------------|-----------|------------|-----------|
| Contractors:                 | Continued | 221398.42  |           |
| Weimer Machine Works Co.     |           |            |           |
| Furnace Castings             |           | 14215.00 ✓ |           |
| C. Van Iderstine             |           |            |           |
| Office Bldg. & Laboratory    |           | 6238.96 ✓  |           |
| Supply House                 |           | 677.50 ✓   |           |
| Westinghouse Church Kerr Co. |           |            |           |
| Electric Generators          |           | 4318.80 ✓  |           |
| Lipsett & Sinclair           |           |            |           |
| Barn                         |           | 1666.00 ✓  |           |
| Waterworth, Fee & Wilson     |           |            |           |
| Stock House                  |           | 2090.00 ✓  |           |
| J. F. Buchanan & Co.         |           |            |           |
| Wiring                       |           | 3312.00 ✓  |           |
| Wisconsin Bridge & Iron Co.  |           |            |           |
| Dbl. Skip                    |           | 675.00 ✓   |           |
|                              | Total     |            | 254591.68 |

Chemical Plant:

|                              |                 |         |           |
|------------------------------|-----------------|---------|-----------|
| Boiler Foundation:           |                 |         |           |
|                              | Excavation      | 468.52  |           |
|                              | Concrete        | 1051.81 |           |
|                              | Settings        | 110.31  |           |
|                              | Total           |         | 1630.64 ✓ |
| Boiler House Foundation:     |                 |         |           |
|                              | Excavation Work | 272.79  |           |
|                              | Concrete Work   | 909.43  |           |
|                              | Stone Work      | 1190.26 |           |
|                              | Coping          | 283.41  |           |
|                              | Total           |         | 2655.89 ✓ |
| Boiler Feed Pump Foundation: |                 |         |           |
|                              | Concrete Work   | 107.93  |           |
|                              | Brick Work      | 37.50   |           |
|                              | Total           |         | 145.43 ✓  |
| Eng. & P. H. Foundation:     |                 |         |           |
|                              | Excavation Work | 612.23  |           |
|                              | Concrete Work   | 650.49  |           |
|                              | Stone Work      | 530.02  |           |
|                              | Coping          | 172.72  |           |
|                              | Total           |         | 1965.46 ✓ |
| Blow Engine Foundation:      |                 |         |           |
|                              | Foundation      | 614.67  |           |
|                              | Brick Work      | 1293.03 |           |
|                              | Total           |         | 1907.70 ✓ |
| Pump Foundation:             |                 |         |           |
|                              | Concrete Work   | 263.29  |           |
|                              | Brick Work      | 405.59  |           |
|                              | Total           |         | 668.88 ✓  |
| Stand Pipe Foundation:       |                 |         |           |
|                              | Excavation Work | 165.32  |           |
|                              | Concrete Work   | 327.73  |           |
|                              | Coping          | 83.22   |           |
|                              | Total           |         | 576.27 ✓  |

145.43  
468.88  
814.31

|                                     |          |          |   |
|-------------------------------------|----------|----------|---|
| Condenser Foundation:               |          |          |   |
| Excavation Work                     | 47.80    |          |   |
| Concrete Work                       | 220.35   |          |   |
| Brick Work                          | 9.04     |          |   |
| Total                               |          | 277.19   | ✓ |
| Induced Draft Apparatus Foundation: |          |          |   |
| Excavation Work                     | 196.97   |          |   |
| Concrete Work                       | 807.10   |          |   |
| Total                               |          | 1004.07  | ✓ |
| Ash & Coal Conveyor Foundation:     |          |          |   |
| Excavation Work                     | 153.40   |          |   |
| Concrete Work                       | 273.46   |          |   |
| Total                               |          | 426.86   | ✓ |
| Water Supply:                       |          |          |   |
| Soundings                           | 39.08    |          |   |
| Excavation & Filling                | 1689.62  |          |   |
| Sheet Piling                        | 309.85   |          |   |
| Piping                              | 2760.89  |          |   |
| Waste Water                         | 13.65    |          |   |
| Total                               |          | 4813.09  | ✓ |
| Unldg. Erect'g & Plac. Machy:       |          |          |   |
| Electric Engines                    | 303.56   |          |   |
| Pumps                               | 334.67   |          |   |
| Blowing Engines                     | 774.65   |          |   |
| Condensers                          | 66.17    |          |   |
| Total                               |          | 1479.05  | ✓ |
| Miscellaneous:                      |          |          |   |
| Painting Smoke Main                 | 228.10   |          |   |
| Painting Smoke Condensers           | 170.38   |          |   |
| Kiln Chimneys                       | 2527.40  |          |   |
| Still Houses                        | 103.98   |          |   |
| Smoke Condensers Tubing             | 36399.31 |          |   |
| Mixers                              | 367.27   |          |   |
| Tanks & Still Braces                | 2078.27  |          |   |
| Unldg. & Erect'g Tks & Stills       | 957.43   |          |   |
| Frnt. on Case Copper Work           | 1216.24  |          |   |
| Liquor Trough                       | 406.83   |          |   |
| Liquor Trough for Condenser         | 226.09   |          |   |
| Bronze Liquor Pumps                 | 1242.35  |          |   |
| Smoke Fans                          | 1833.03  |          |   |
| Fan Cases                           | 24.68    |          |   |
| Fractional Stills                   | 524.73   |          |   |
| Storage Tanks                       | 242.39   |          |   |
| Fractional Condensers               | 150.63   |          |   |
| Copper Columna                      | 80.11    |          |   |
| Smoke Condensers                    | 7259.48  |          |   |
| Condenser Platforms                 | 2637.61  |          |   |
| Burcey Pans                         | 66.49    |          |   |
| Steam Piping                        | 10098.97 |          |   |
| Smoke Condenser Foundation          | 1210.29  |          |   |
| Primary Stills                      | 790.59   |          |   |
| Primary Condensers                  | 117.38   |          |   |
| Fractional Condensers               | 114.69   |          |   |
| Mixing Tanks                        | 100.50   |          |   |
| Refining Stills                     | 286.89   |          |   |
| Lime Boxes                          | 31.32    |          |   |
| Lime Trestle                        | 543.05   |          |   |
| Kiln & Chem.Plant Wiring            | 2745.40  |          |   |
| Settling Tanks                      | 169.92   |          |   |
| Smoke Main Trestle                  | 1445.05  |          |   |
| Hose                                | 1634.40  |          |   |
| Main Water Pipe Trench              | 1160.67  |          |   |
| Trench Draining Apparatus           | 894.26   |          |   |
| Forward                             |          | 80086.18 |   |

|                                     |             |            |
|-------------------------------------|-------------|------------|
| Miscellaneous:                      | Bro't For'd | 80086.18   |
| Tanks and Stills                    |             | 740.40 ✓   |
| Smoke Condenser Piping              |             | 181.23 ✓   |
| Sight Boxes                         |             | 4.13 ✓     |
| Green Liquor Tank                   |             | 769.55 ✓   |
| Cond. Water and Liquor Troughs      |             | 1257.68 ✓  |
| Goose Tank Fond.                    |             | 399.92 ✓   |
| Tar Tanks                           |             | 507.20 ✓   |
| Car Traps                           |             | 443.46 ✓   |
| Fan House                           |             | 196.75 ✓   |
| Confining House Floor               |             | 2323.88 ✓  |
| Primary House Floor                 |             | 1114.53 ✓  |
| Gas Main                            |             | 1179.68 ✓  |
| Gas Main Trestle                    |             | 108.90 ✓   |
| Watchman                            |             | 91.50 ✓    |
| Still Sight Glasses                 |             | 114.89 ✓   |
| Turbing Fond. Concrete              |             | 781.91 ✓   |
| Barrel Storage House Piping         |             | 111.30 ✓   |
| Cleaning and Testing Stills         |             | 289.41 ✓   |
| Water Power House                   |             | 132.41 ✓   |
| Pump Pipe                           |             | 512.10 ✓   |
| Barrel Storage House                |             | 721.51 ✓   |
| Water Supply                        |             | 25940.47 ✓ |
| Fire Protection                     |             | 375.75 ✓   |
| Smoke Mains                         |             | 14066.07 ✓ |
| Blow Eng. Pipe Covering             |             | 40.37 ✓    |
| Testing Boilers                     |             | 115.00 ✓   |
| Testing Machinery                   |             | 3563.69 ✓  |
| Elec. Machinery Foundation          |             | 335.41 ✓   |
| Condensers                          |             | 37.50 ✓    |
| Stand Pipe                          |             | 14.96 ✓    |
| Fan Eng. Fond. Concrete             |             | 22.59 ✓    |
| Cleaning Around Plant               |             | 367.65 ✓   |
| Stoker Brick Work                   |             | 873.12 ✓   |
| Blow Eng. Grease Cups               |             | 2.28 ✓     |
| Economizer Valve Stem               |             | 1.92 ✓     |
| Electric Motors                     |             | 2658.05 ✓  |
| Freight on Machinery from Southwark |             | 796.63 ✓   |
| Suction Tank & Intake Pipe          |             | 319.42 ✓   |
| Intake Anchorage                    |             | 222.53 ✓   |
| Ash & Coal Conveyor Tracks          |             | 95.85 ✓    |
| Boiler Fittings                     |             | 37.27 ✓    |
| Induced Draft Apparatus Piping      |             | 65.96 ✓    |
| Boiler Ladders                      |             | 67.62 ✓    |
| Economizer Piping                   |             | 99.37 ✓    |
| Boiler Piping                       |             | 87.57 ✓    |
| Coal Dock                           |             | 4454.30 ✓  |
| Fence                               |             | 346.54 ✓   |
| Boiler House Car Tank               |             | 95.29 ✓    |
| Gas Fans                            |             | 55.54 ✓    |
| Pipe & Stills Coverings             |             | 5510.00 ✓  |
|                                     | Total       | <hr/>      |

(et al)  
 $252.64 = 93.90$  ✓

152737. 24

|                        |         |
|------------------------|---------|
| General Expense:       |         |
| Engineers              | 1000.00 |
| Traveling              | 2687.02 |
| Telephones & Telegrams | 265.44  |
| Watchmen               | 337.76  |
| Boulevard Tax          | 415.61  |
| Taxes                  | 64.38   |
| Draftsman              | 2098.27 |
|                        | <hr/>   |
| Total                  |         |

6868. 48 ✓

Building:

|                                 |           |         |
|---------------------------------|-----------|---------|
| Boiler House Firing Floor       | 616.81 ✓  |         |
| Boiler House Building           | 279.95 ✓  |         |
| Pump House Concrete Floor       | 380.69 ✓  |         |
| Mach. Blacksmith & Supply House | 2646.72 ✓ |         |
| Engine & Pump House             | 4424.40 ✓ |         |
| Carp Shop                       | 276.91 ✓  |         |
| Hose House                      | 29.20 ✓   |         |
| Total                           |           | 8654.68 |

Painting:

|                         |          |         |
|-------------------------|----------|---------|
| Stand Pipe              | 29.44 ✓  |         |
| Coal Conveyor Apparatus | 66.78 ✓  |         |
| Induced Draft Apparatus | 27.06 ✓  |         |
| Boiler House            | 280.22 ✓ |         |
| Sterling Boilers        | 162.60 ✓ |         |
| Buildings               | 491.34 ✓ |         |
| Total                   |          | 1057.44 |

Contractors:

|  |                         |           |
|--|-------------------------|-----------|
| C. C. Van Iderstine<br>Supply House                                  | 677.50 ✓                |           |
| Southwark Fond. & Machinery Co.<br>Condenser Plant<br>Blowing Engine | 2168.50 ✓<br>12632.05 ✓ |           |
| Sterling Company<br>Boilers  | 35474.15 ✓              |           |
| American Bridge Co.<br>Structural Works<br>B. F. Strutevant Co.      | 7258.75 ✓               |           |
| B. F. Strutevant Co.<br>Economizers                                  | 13532.00 ✓              |           |
| Logeman Bros.<br>Intake Pipe Material                                | 5273.00 ✓               |           |
| Link Belt Engineering Co.<br>Coal & Ash Handling Mach.               | 7100.00 ✓               |           |
| Murphy Iron Works<br>Murphey Furnaces                                | 11590.00 ✓              |           |
| F. M. Prescott S.P.Co.<br>Boiler Feed Pump<br>Pumping Engines        | 825.00 ✓<br>18000.00 ✓  |           |
| Powell & Mitchell<br>Intk. Pipe & Suction Tank<br>Trestle No.3       | 8000.00 ✓<br>2490.00 ✓  |           |
| Baker Smith & Co.<br>Cast Iron Water Pipe                            | 17884.00 ✓              |           |
| Westinghouse, Church Kerr Co.<br>Electric Generators                 | 8637.60 ✓               |           |
| J. F. Buchanan & Co.<br>Wiring                                       | 368.00 ✓                |           |
| Waterworth, Fee & Wilson<br>Still Houses                             | 18341.53 ✓              |           |
| C. C. Van Iderstine<br>Barrel Storage House                          | 1355.00 ✓               |           |
| Struthers, Wells & Co.<br>Iron Tanks & Pans                          | 13950.00 ✓              |           |
| Forward  |                         | 185557.08 |

|                            |                          |            |           |
|----------------------------|--------------------------|------------|-----------|
| Contractors:               | Continued---Bro't For'd. | 185557.08  |           |
| W. A. Case & Son.          | Copper Work              | 55040.33 ✓ |           |
| U. S. Wing Eng. & Pump Co. | Wooden Tanks             | 4798.96 ✓  |           |
| Vulcan Copper Works        | Copper Still             | 1720.00 ✓  |           |
|                            | Total                    |            | 247116.37 |

ACETATE PLANT:

|                                     |        |  |          |
|-------------------------------------|--------|--|----------|
| Boiler Foundation:                  |        |  |          |
| Excavation Work                     | 55.95  |  |          |
| Concrete Work                       | 125.61 |  |          |
| Settings                            | 13.17  |  |          |
|                                     | Total  |  | 194.73 ✓ |
| Boiler House Foundation             |        |  |          |
| Excavation Work                     | 32.58  |  |          |
| Concrete Work                       | 108.61 |  |          |
| Stone Work                          | 142.14 |  |          |
| Coping                              | 33.84  |  |          |
|                                     | Total  |  | 317.17 ✓ |
| Boiler Feed Pump Foundation:        |        |  |          |
| Concrete Work                       | 12.89  |  |          |
| Brick Work                          | 4.48   |  |          |
|                                     | Total  |  | 17.37 ✓  |
| Engine & Pump House Foundation:     |        |  |          |
| Excavation Work                     | 69.97  |  |          |
| Concrete Work                       | 74.34  |  |          |
| Stone Work                          | 60.57  |  |          |
| Coping                              | 19.74  |  |          |
|                                     | Total  |  | 224.62 ✓ |
| Pump Foundation:                    |        |  |          |
| Concrete Work                       | 31.44  |  |          |
| Brick Work                          | 48.44  |  |          |
|                                     | Total  |  | 79.88 ✓  |
| Stand Pipe Foundation:              |        |  |          |
| Excavation Work                     | 11.02  |  |          |
| Concrete Work                       | 21.84  |  |          |
| Coping                              | 5.55   |  |          |
|                                     | Total  |  | 38.41 ✓  |
| Induct. Draft Apparatus Foundation: |        |  |          |
| Excavation Work                     | 5.79   |  |          |
| Concrete Work                       | 23.74  |  |          |
|                                     | Total  |  | 29.53 ✓  |
| Water Supply:                       |        |  |          |
| Soundings                           | 2.61   |  |          |
| Excavation & Filling                | 112.64 |  |          |
| Sheet Piling                        | 20.66  |  |          |
| Piping                              | 299.14 |  |          |
|                                     | Total  |  | 435.05 ✓ |
| Unld. Erect. & Placing Mach:        |        |  |          |
| Electrical Engines                  | 50.60  |  |          |
| Pumps                               | 78.56  |  |          |
|                                     | Total  |  | 129.16 ✓ |

Miscellaneous:

|                                |            |                 |
|--------------------------------|------------|-----------------|
| Testing Boilers                | 13.13 ✓    |                 |
| Electric Machinery Foundation  | 55.90 ✓    |                 |
| Cleaning Around Plant          | 367.65 ✓   |                 |
| Stand Pipe                     | .44 ✓      |                 |
| Fan Eng. Found. Concrete Work  | .66 ✓      |                 |
| Economizer Valve Stem          | .22 ✓      |                 |
| Suction Tank and Intake Pipe   | 21.29 ✓    |                 |
| Intake Anchorage               | 14.84 ✓    |                 |
| Boiler Fittings                | 4.26 ✓     |                 |
| Induct. Draft Apparatus Piping | 1.94 ✓     |                 |
| Boiler Ladders                 | 7.73 ✓     |                 |
| Economizer Piping              | 11.35 ✓    |                 |
| Boiler Piping                  | 48.19 ✓    |                 |
| Troughs                        | 183.38 -   |                 |
| Installing Tanks               | 412.03 -   |                 |
| Installing Pans                | 57.40 -    |                 |
| Acetate Traps                  | 4.35 ✓     |                 |
| Wiring                         | 120.10 ✓   |                 |
| Dryer                          | 14925.63 ✓ |                 |
| Pumps                          | 9.56 ✓     |                 |
| Machinery                      | 15.86 ✓    |                 |
| Hot Air Flue                   | 75.73 ✓    |                 |
| Piping                         | 530.66 ✓   | 335.32 ✓        |
| <b>Total</b>                   |            | <b>16882.30</b> |

*Handwritten notes:*  
 412.03 ✓  
 57.40 ✓  
 183.38 ✓  
 195.78 ✓  
 848.09 ✓  
 E.P. 29

Building:

|                           |        |                 |
|---------------------------|--------|-----------------|
| Boiler House Firing Floor | 70.49  |                 |
| Boiler House Building     | 32.00  |                 |
| Pump House Concrete Floor | 25.38  |                 |
| Building                  | 672.30 |                 |
| <b>Total</b>              |        | <b>800.17 ✓</b> |

Painting:

|                         |       |                |
|-------------------------|-------|----------------|
| Stand Pipe              | 1.96  |                |
| Induced Draft Apparatus | .80   |                |
| Sterling Boilers        | 18.58 |                |
| <b>Total</b>            |       | <b>21.34 ✓</b> |

Contractors:

|                               |           |                   |
|-------------------------------|-----------|-------------------|
| Sterling Co.                  |           |                   |
| Boilers                       | 4054.19 ✓ |                   |
| B. F. Strutevant Co.          |           |                   |
| Economizers                   | 398.00 ✓  |                   |
| F. M. Prescott S. P. Co.      |           |                   |
| Pumping Engines               | 1200.00 ✓ |                   |
| Westinghouse, Church Kerr Co. |           |                   |
| Electrical Generators         | 1439.60 ✓ |                   |
| C. C. Van Iderstine           |           |                   |
| Building                      | 3487.50 ✓ |                   |
| Struthers, Wells & Co.        |           |                   |
| Iron Tanks & Pans             | 2720.00 ✓ |                   |
| <b>Total</b>                  |           | <b>13299.29 ✓</b> |

KILN PLANT:

Kiln Foundations:

|                 |         |
|-----------------|---------|
| Excavation Work | 1348.61 |
| Concrete Work   | 5700.78 |
| Filling Centers | 356.86  |
| Drainage        | 411.71  |
| Total           |         |

7817.96 ✓

Kilns:

|                          |          |
|--------------------------|----------|
| Brick Work               | 48882.75 |
| Doors                    | 967.34   |
| Tops                     | 5.26     |
| Bands                    | 6051.17  |
| Castings, C. A. L. & Co. | 1991.62  |
| Total                    |          |

57898.14 ✓

Miscellaneous:

|                              |            |
|------------------------------|------------|
| Excavation Site              | 2366.31    |
| Transfer Track               | 1525.01 ✓  |
| Water Supply                 | 708.27 ✓   |
| Kiln, Ret. Expmts. Gladstone | 4432.96 ✓  |
| Platforms                    | 630.87 ✓   |
| Kiln Trestle                 | 15733.20 ✓ |
| Lime House                   | 722.94 ✓   |
| Six New Kilns                | 6648.48 ✓  |
| Tracks & Trestles            | 12578.99 ✓ |
| Transfer Track Loops         | 265.87     |
| Storm Shed Loop              | 176.54     |
| Total                        |            |

45789.44 ✓

RENTED HOUSES:

|                    |           |
|--------------------|-----------|
| Contractors        | 14780.23  |
| Italian Club House | 368.68 ✓  |
| Pipe Line          | 2280.64   |
| Sidewalk           | 841.47 ✓  |
| Five New Houses    | 4379.77   |
| Drainage Ditch     | 1722.80 ✓ |
| Total              |           |

22673.59 ✓

FORMALDEHYDE PLANT:

|                      |          |
|----------------------|----------|
| Foundation           | 174.07   |
| Buildings            | 2481.29  |
| Apparatus            | 12316.35 |
| Erecting Machinery   | 236.68   |
| Piping               | 2048.25  |
| Wiring               | 18.37    |
| Copper Tanks         | 1100.00  |
| Superintendent       | 2676.00  |
| Freight on Machinery | 662.21   |
| Steam Pipe Trestle   | 127.74   |
| Tank Foundation      | 142.27   |
| Pumping Foundation   | 39.85    |
| Water Tank           | 31.10    |
| Machinery            | 10.86    |
| Total                |          |

22065.04

RECAPITULATION

FURNACE:

|                                 |           |
|---------------------------------|-----------|
| Stack Foundation                | 1187.82 ✓ |
| Stove Foundations               | 2130.65 ✓ |
| Stove Chimney Foundations       | 1676.46   |
| Boiler Foundation               | 520.85    |
| Boiler House Foundation         | 848.36    |
| Boiler Feed Pump Foundations    | 46.46     |
| Cast House Foundation           | 5582.58   |
| Engine & Pump House Foundations | 617.71    |
| Blow Engine Foundation          | 1907.70   |
| Pump Foundation                 | 213.66    |
| Condenser Machy. & H.W. Found.  | 159.89    |
| Gas Mains for Stoves            | 354.66    |
| Gas Mains For Boilers           | 207.07    |
| Stand Pipe Foundation           | 153.67    |
| Condenser Foundation            | 277.19    |
| Dust Catcher Foundation         | 600.78    |
| Stove Chimney Flue Foundation   | 1250.33   |
| Stock House Foundation          | 670.99    |
| Stock Bin Foundation            | 3352.43   |
| Stock House Trestle Foundation  | 1354.45   |
| Hoist House Foundation          | 231.92    |
| Induct. Draft Apparatus Found.  | 442.98    |
| Skip Tank. & Incl. Plane Found. | 1374.48   |
| Site                            | 7621.68   |
| Furnace Water Supply            | 1360.85   |
| Iron Yard Wall                  | 7757.82   |
| Iron Yard Dock                  | 7427.50   |
| Unloading Erc. & Placing Machy. | 1411.20   |
| Miscellaneous                   | 49839.73  |
| General Expense                 | 13816.09  |
| Building                        | 22612.83  |
| Fire Brick Work                 | 39036.01  |
| Painting                        | 1808.69   |
| Contractors                     | 254591.68 |

Total

432447.17 ✓

Depreciation

1100.73  
431346.44 ✓

Balance

366370.17



CHEMICAL PLANT:

|                                     |           |   |
|-------------------------------------|-----------|---|
| Boiler Foundation                   | 1630.64   | ✓   |
| Boiler House Foundation             | 2655.89   | ✓   |
| Boiler Feed Pump Foundation         | 145.43    | ✓   |
| Engine & Pump House Foundation      | 1965.46   | ✓   |
| Blow Engine Foundation              | 1907.70   | ✓   |
| Pump Foundation                     | 668.88    | ✓   |
| Stand Pipe Foundation               | 576.27    | ✓   |
| Condenser Foundation                | 277.19    | ✓   |
| Induct. Draft Apparatus Found.      | 1004.07   | ✓   |
| Ash & Coal Conveyor Foundation      | 426.86    | ✓   |
| Water Supply                        | 4813.09   | ✓   |
| Unloading Erectng. & Placing Machy. | 1479.05   | ✓   |
| Miscellaneous                       | 152737.24 |   |
| General Expense                     | 6868.48   | ✓   |
| Building                            | 8654.68   |   |
| Painting                            | 1057.44   |   |
| Contractors                         | 247116.37 |   |
| Total                               |           | 433984.74 ✓                               |
| Depreciation                        |           | <sup>25264</sup><br>433984.74<br>78409.84 |
| Balance                             |           | 373574.90                                 |

ACETATE PLANT:

|                                     |          |   |
|-------------------------------------|----------|---|
| Boiler Foundation                   | 194.73   | ✓   |
| Boiler House Foundation             | 317.17   | ✓   |
| Boiler Feed Pump Foundation         | 17.37    | ✓   |
| Engine & Pump House Found.          | 224.62   | ✓   |
| Pump Foundation                     | 79.88    | ✓   |
| Stand Pipe Foundation               | 38.41    | ✓   |
| Indct. Draft Apparatus Found.       | 29.53    | ✓   |
| Water Supply                        | 435.05   | ✓   |
| Unloading Erectng. & Placing Machy. | 129.16   | ✓   |
| Miscellaneous                       | 16882.30 |   |
| Building                            | 800.17   | ✓   |
| Painting                            | 21.34    | ✓   |
| Contractors                         | 13299.29 | ✓   |
| Total                               |          | 32469.02  |
|                                     |          | <i>Eta 9</i><br><sup>848.09</sup><br>31620.93 ✓ |

KILN PLANT:

|               |          |             |
|---------------|----------|-------------|
| Foundations   | 7817.96  |             |
| Kilns         | 57898.14 |             |
| Miscellaneous | 45789.44 |             |
| Total         |          | 111505.54 ✓ |
| Depreciation  |          | 14580.05    |
| Balance       | 311      | 96925.49    |

RENTED HOUSES:

|              |          |
|--------------|----------|
| Total        | 22673.59 |
| Depreciation | 3811.65  |
| Balance      | 18861.94 |

FORMALDEHYDE PLANT:

|              |          |
|--------------|----------|
| Total        | 22065.04 |
| Depreciation | 1654.65  |
| Balance      | 20410.39 |

RECAPITULATION:

|                | Total Cost  | Depreciation | Balance   |
|----------------|-------------|--------------|-----------|
| Furnace        | 432447.17   | 66077.00     | 366370.17 |
| Chemical Plant | 433984.74   | 60409.84     | 373574.90 |
| Acetate "      | 32469.02    |              | 32469.02  |
| Kiln "         | 111505.54 x | 14580.05     | 96925.49  |
| Rented Houses  | 22673.59    | 3811.65      | 18861.94  |
| Formal. Plant  | 22065.04    | 1654.65      | 20410.39  |
|                | 1055145.10  | 146533.19    | 908611.91 |

RECEIVED  
JUL 27 1905

PIONEER IRON COMPANY  
Pioneer Furnace #2

STATEMENT OF NEW CONSTRUCTION & IMPROVEMENT WHICH HAS BEEN CHARGED OFF.

NOVEMBER -o- 1904

| Auth.<br>No. | Description                                      | Amount            |    | Total Cost        |      |
|--------------|--|-------------------|----|-------------------|------|
|              |  | Authorized        | To | To                | Date |
|              | CAMP GROUP                                       |                   |    |                   |      |
| 5            | Eben Camps & Spurs<br>Company House - Coalwood - | 1319.87<br>300.75 |    | 1000.99<br>300.75 |      |

# PIONEER IRON COMPANY,

PIONEER FURNACE No. 2

## STATEMENT OF

### NEW CONSTRUCTION & IMPROVEMENT

WHICH HAS BEEN CHARGED OFF

NOVEMBER 1904

| No. | Description                | Amount  | To Date |
|-----|----------------------------|---------|---------|
| 1   | COMPANY HOUSE - DEPARTMENT | 500.00  | 200.00  |
| 2   | IRON ORE & FUEL            | 1315.00 | 1000.00 |
|     | CASH ON HAND               |         |         |

STATEMENT OF NEW CONSTRUCTION & IMPROVEMENT WHICH HAS BEEN CHARGED OFF  
NOVEMBER 1904  
PIONEER IRON COMPANY

RECEIVED  
NOV 15 1904  
PIONEER IRON COMPANY

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A N N U A L R E P O R T,  
C A R P R I V E R F U R N A C E D E P A R T M E N T

P I O N E E R I R O N C O M P A N Y,

N O V . 3 0 , 1 9 0 4 .

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N O A H W . G R A Y , M a n a g e r .

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I N D E X.

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| Stock Used.....                | 4    |
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Marquette, Mich., Dec. 17, 1904.

Mr. Wm. G. Mather, Vice-Pres't,  
Pioneer Iron Co.,  
Cleveland, Ohio.

Dear Sir:-

I herewith submit statement showing the operations and conditions at the Carp River Furnace, with detailed costs of producing iron for the fiscal year ending Nov. 30, 1904.

On account of market conditions the furnace was blown out May 29, 1904, and has been idle since.

There were produced in the six months' run 8118 tons of iron, costing \$13.859 per ton. Included in this cost is \$1,623.00 placed to the credit of Relinings and Renewals Account and \$124.54 Depreciation of Furnace Inventory, and there was credited the rent of kilns for the six months, \$1,800.00.

The Relinings and Renewals Account is now credited with \$5703.77, in which is included the scrap sold from the No. 1 Hotblast, \$539.00, and previous credit of the last year. There will also be a credit when the old engine is taken out, of probably about \$300.00.

There have been no extraordinary expenditures at the furnace during the year, and the run was satisfactory, except the furnace was ~~banked~~ banked 28 days on account of shortage of wood, and consequently of charcoal.

The trestles were examined and repaired this summer, and in general the furnace is in good condition, so far as can be seen. The inside of the stack has not been examined, but I think there would only be needed new hearth and bosh brick, and possibly not many of these.

Yours truly,

*Noah W. Gray*  
Manager.

1.

SUMMARY OF COST OF MAKING 8115 TONS OF EXCELSIOR PIG IRON FOR FISCAL  
 YEAR ENDING NOV. 30, 1904, PLUS NET OVERRUN OF THREE TONS,  
 MAKING 8118 TONS TOTAL.

GENERAL EXPENSE--

|   |   | Per Ton  |                  |
|---|---|--|------------------|
| Insurance,<br>Fire, Liability and Boiler.   |   | .059   | \$ 476.66        |
| Taxes,<br>City,<br>State and County,  | \$960.00<br><u>368.53</u>   | .164   | 1328.59          |
| Analysis;<br>Salary Chemist,<br>Supplies,   | 450.00<br><u>40.57</u>  | .060   | 490.57           |
| Office,<br>Salaries,<br>Telephones,<br>Stationery, &c.,<br>Postage,<br>Telegrams,<br>Board of Horse,<br>Horse Shoeing and<br>repairs to carriage,<br>Rent of ground from<br>D. S. S. & A. R. R.<br>Co., | 2244.00<br>78.40<br>42.00<br>24.61<br>24.71<br>240.00<br>14.20<br>25.00 | .276<br>.009<br>.005<br>.003<br>.003<br>.030<br>.002<br>.003 | 2692.92 ✓        |
| Total General Expense,  |   | .614   | <u>\$4988.74</u> |



MAINTENANCE---

|  |       |           |
|--|-------|-----------|
| Trestles and Dock,<br>Plank for highway bridge.                                | .001  | \$ 6.50   |
| Buildings,<br>General repairs.<br>Materials.                                   | .009  | 72.99     |
| Machinery,<br>Materials for repairs.   | .019  | 159.04    |
| Relinings and Renewals,<br>20 cents per ton on 8115 tons,<br>product for 1904. | .200  | 1623.00   |
|  | <hr/> | <hr/>     |
|  | .229  | \$1861.53 |
|  | <hr/> | <hr/>     |

OPERATING---

|  |              | Per Ton      |                 |
|--|--------------|--------------|-----------------|
| Machinery,                                 |              | .166         | \$ 1355.71      |
| Pay-Roll,                                  | \$ 1231.84   |              |                 |
| Oils and Grease,                           | 93.72        |              |                 |
| Boiler Compound,                           | <u>30.15</u> |              |                 |
| Electric and Other Light,                  |              | .018         | 152.99          |
| Bottom Fillers,                            |              | .280         | 2276.02         |
| Top Fillers,                               |              | .083         | 676.15          |
| Handling Iron,                             |              | .135         | 1101.21         |
| Handling Cinder,                           |              | .066         | 533.60          |
| Weighing and Grading Iron,                 |              | .112)        | 885.00          |
| Blacksmith,                                |              | )            | 3.00            |
| Founders, Keepers and Helpers,             |              | .330         | 2677.72         |
| General Labor,                             |              | .168         | 1363.84         |
| Casting Tools (tools and Materials Bought) |              | .014         | 107.61          |
| Barn Expense,                              |              | .020         | 160.22          |
| Fuel,                                      |              | .052         | 423.87          |
| Total, -                                   |              | <u>1.444</u> | <u>11716.94</u> |

STOCK USED---

| Ores:---                         | Tons.             | Price.         | Per Ton. | Amount.                   |
|----------------------------------|-------------------|----------------|----------|---------------------------|
| Lake,                            | 14262-2170        | \$2.718        | \$4.758  | \$ 38620.16               |
| Buffalo,                         | 81-1250           | 2.193          | .022     | 178.79                    |
| Lake Silica,                     | 973-0173          | 1.495          | .179     | 1455.04                   |
|                                  |                   |                |          | <u>40253.99</u>           |
| Add premium paid on Pewabic ore, |                   |                | .051     | 418.36                    |
|                                  | <u>15317-1353</u> | <u>\$2.654</u> | \$5.010  | <u>\$5.010 \$40672.35</u> |

CHARCOAL---

|               |          |                |
|---------------|----------|----------------|
| Bushels Used, | Per Bus. | Per Ton.       |
| 721591 Bus.   | .070     | 6.223 50511.37 |

LIMESTONE---

|                      |       |             |
|----------------------|-------|-------------|
| Tons Used,           |       |             |
| 464- 0286/2000 tons, | 1.200 | .068 556.83 |

DEPRECIATION---

|   |              |                 |                  |
|---|--------------|-----------------|------------------|
| Furnace Inventory,                        |              | .015            | 124.54           |
| Office, 25%,                              | \$52.78      |                 |                  |
| Yard, 25%,                                | 49.66        |                 |                  |
| Laboratory, 25%,                          | <u>22.10</u> |                 |                  |
| Total Operating, -                        |              | 12.760          | 103582.03        |
| Less rent of kilns credited to Operating, |              | .222            | 1800.00          |
| Net Operating,                            |              | <u>\$12.538</u> | <u>101782.03</u> |

## LOADING AND SWITCHING---

.478 \$ 3882.99

|   |      |                |
|---|------|----------------|
| Loading 7800 tons on cars<br>(lake shipments),  | .065 | \$ 506.99      |
| Loading 1560 tons on cars,<br>(rail shipments), | .065 | 102.02         |
| Paint for marking,                              | .010 | 75.98          |
| Painting iron,                                  | .010 | 78.00          |
| Switching to dock 7800<br>tons,                 | .250 | 1650.00        |
| Loading Vessels, 7800<br>tons,                  | .150 | <u>1170.00</u> |

RECAPITULATION.

|   |               |                  |
|---|---------------|------------------|
| General Expense.....                          | \$ .614       | \$ 4988.74       |
| Maintenance.....                              | .229          | 1861.53          |
| Operating.....                                | 1.444         | 11716.94         |
| Stock Used.....                               | 11.301        | 91740.55         |
| Depreciation.....                             | .015          | 124.54           |
| Loading and Switching.....                    | .478          | 3882.99          |
|   | <u>14.081</u> | <u>114315.29</u> |
| Less Rent Account credited to Operating,..... | .222          | 1800.00          |
| Net Cost.....                                 | \$13.859      | 112515.29        |

## SUMMARY OF FURNACE REPORT---

15317-1353/2240 tons ore used.  
 53 per cent yield of ore.  
 721591 Buz charcoal used.  
 88-/99/100 Bus. to ton of iron.  
 464-286/200 tons limestone used.  
 114 Lbs. limestone to ton of iron.  
 181 days in blast.  
 281 stoppages.  
153 days actually running.  
 53-06/100 tons for each day running.

# PIONEER IRON COMPANY.

CARP RIVER FURNACE DEPARTMENT.

Pig Iron Cost Sheet.

Month of June 1904

| Number of Blast<br>Tons made this Blast        | Tons Produced 1 month |          | Tons Produced 6 months |              |
|--|-----------------------|----------|------------------------|--------------|
|  | 8,118                 |          | 48,708                 |              |
|  | LABOR                 | SUPPLIES | TOTAL                  | COST PER TON |
|  |                       |          |                        | 1 month      |
| <b>GENERAL EXPENSE</b>                         |                       |          |                        |              |
| Insurance                                      |                       | 47666    | 47666                  | 59           |
| Taxes  |                       | 32859    | 32859                  | 41           |
| Analysis                                       | 15000                 | 40571    | 49057                  | 60           |
| Salaries and other Expenses                    | 224400                | 448942   | 673342                 | 83           |
| <b>Total</b>                                   | 269400                | 224774   | 494174                 | 61           |
| <b>MAINTENANCE</b>                             |                       |          |                        |              |
| Tracks and Yard                                |                       |          |                        |              |
| Trestles and Dock                              |                       | 650      | 650                    | 8            |
| Buildings                                      |                       | 7299     | 7299                   | 9            |
| Machinery                                      |                       | 15904    | 15904                  | 19           |
| Tuyeres  |                       |          |                        |              |
| Relinings and Renewals                         |                       | 162300   | 162300                 | 20           |
| Water Supply                                   |                       |          |                        |              |
| <b>Total</b>                                   |                       | 186153   | 186153                 | 23           |
| <b>OPERATING</b>                               |                       |          |                        |              |
| Machinery                                      | 123154                | 123871   | 135591                 | 16           |
| Electric and other Light                       |                       | 15299    | 15299                  | 19           |
| Bottom Fillers                                 | 227602                |          | 227602                 | 28           |
| Top Fillers                                    | 27615                 |          | 27615                  | 34           |
| Handling Iron                                  | 110131                |          | 110131                 | 13           |
| Handling Cinder                                | 58320                 |          | 58320                  | 7            |
| Weighing and Grading Iron                      | 88500                 |          | 88500                  | 11           |
| Blacksmith                                     |                       | 300      | 300                    | 4            |
| Founders, Keepers and Helpers                  | 267772                |          | 267772                 | 33           |
| Carpenter                                      |                       |          |                        |              |
| Coal Forkers                                   |                       |          |                        |              |
| General Labor                                  | 136350                |          | 136350                 | 17           |
| Casting Tools                                  |                       | 10761    | 10761                  | 13           |
| Sand and Clay                                  |                       |          |                        |              |
| Barn Expense                                   |                       | 16022    | 16022                  | 2            |
| Fuel   |                       | 42387    | 42387                  | 5            |
| <b>Total</b>                                   | 104538                | 97156    | 114764                 | 14           |
| <b>STOCK USED</b>                              |                       |          |                        |              |
| Ore  |                       | 4067235  | 4067235                | 500          |
| Charcoal                                       |                       | 505137   | 505137                 | 62           |
| Limestone                                      |                       | 55683    | 55683                  | 7            |
| <b>Total</b>                                   |                       | 4174055  | 4174055                | 512          |
| <b>Cost of Production.</b>                     |                       |          |                        |              |
|  |                       | 4286328  | 4286328                | 522          |
| <b>DEPRECIATION</b>                            |                       |          |                        |              |
| Construction Account                           |                       |          |                        |              |
| Improvement Account                            |                       |          |                        |              |
| <i>Surveys Inventory etc</i>                   |                       |          |                        |              |
|  |                       | 12454    | 12454                  | 15           |
| <b>Total</b>                                   |                       | 12454    | 12454                  | 15           |
| <b>Total Cost on Yard.</b>                     |                       |          |                        |              |
|  |                       | 1303424  | 1303424                | 159          |
| <b>LOADING AND SWITCHING</b>                   |                       |          |                        |              |
| <b>Rail Shipments.</b>                         |                       |          |                        |              |
| Loading Cars, 180 tons                         |                       | 10202    | 10202                  | 13           |
| .....tons                                      |                       |          |                        |              |
| <b>Total Expense Account of Rail Shipments</b> |                       | 10202    | 10202                  | 13           |
| <b>Lake Shipments, 700 tons</b>                |                       |          |                        |              |
| Loading Cars, 700 tons                         |                       | 7500     | 7500                   | 9            |
| Switching " 700 " "                            |                       | 50699    | 50699                  | 6            |
| Loading Vessels, 700 " "                       |                       | 17000    | 17000                  | 2            |
| <b>Total Expense Account of Lake Shipments</b> |                       | 54499    | 54499                  | 7            |
| <b>Total Loading and Switching</b>             |                       | 65701    | 65701                  | 8            |
| <b>Grand Total 1 month</b>                     |                       | 1412639  | 1412639                | 174          |
| <b>" " 6 months</b>                            |                       | 9828890  | 9828890                | 138          |
| Construction Acc't not sunk off                |                       |          |                        |              |
| Improvement Acc't not sunk off                 |                       |          |                        |              |

state when blown out

**Summary of Cost per Ton.**

|  | On Yard | On Cars | On Vessel |
|--|---------|---------|-----------|
| Cost on yard, as above                     | 13.607  | 13.281  | 13.306    |
| Cost to load, as above                     | .227    | .065    | .478      |
| <b>Total</b>                               | 13.281  | 13.306  | 13.822    |
| Commissions and Expenses, Cleveland Office |         |         |           |
| <b>Total Cost</b>                          |         |         |           |

**Stock Used.**

| Ore          | Tons       | Price | Amount    | Cost per Ton | Per Cent on Ore used | Yield.               |
|--------------|------------|-------|-----------|--------------|----------------------|----------------------|
| Best Lake    | 14762-2170 | 278   | 388206    | 478          | 930                  | Average yield of Ore |
| Best Lake    | 81-1252    | 2148  | 17874     | 102          | 205                  | Bush. Coal per Ton   |
| Best Lake    | 973-0173   | 1445  | 145504    | 179          | 365                  | Lbs. Flux per Ton    |
| Best Lake    |            |       | 41836     | 65           |                      |                      |
| <b>Total</b> | 15872353   | 2654  | 265406728 | 5010         | 100                  |                      |
| Limestone    | 264226     | 1200  | 317071    | 1200         | 1068                 |                      |
| Charcoal     | 121591     | Bus   | 970509137 | 6228         |                      |                      |

Cost per Ton for Labor, 1 month

" " " " 6 months

1.74

*Furnace was blown out on May 29/1904 & has been idle since.*

PIONEER IRON CO.

Carp River Furnace Department.

PIG IRON COST SHEET.

~~Month of~~ Year 1904 190

RECEIVED

DEC 22 1904

RECEIVED  
MAR 20 1906

36

36

PIONEER IRON COMPANY  
Carp River Furnace

WOOD REPORT FOR YEAR ENDING NOV. 30, 1904.

| WOOD RECEIVED:                        |      |       |             |
|---------------------------------------|------|-------|-------------|
|                                       |      |       | Cords 32nds |
| Inventory Dec. 1, 1903, Furnace Kilns |      |       | 2609 04     |
| " " " " " Yard                        |      |       | 342         |
| From Munising East.....               |      |       | 156 24      |
| " " West.....                         |      |       | 1062 08     |
| " Eben.....                           |      |       | 5081 08     |
| " Along Munising.....                 |      |       | 124 16      |
|                                       | Cds. | 32nds |             |
| Finn Spur                             | 78   | 24    |             |
| Jenks Spur                            | 45   | 24    |             |
| " Jobbers                             |      |       | 8790        |
| Total Received at Furnace             |      |       | 18165 28    |
| WOOD CONSUMED:                        |      |       |             |
| Cords Carbonized                      |      |       | 16523 24    |
| Used at Furnace Boilers               |      |       | 74          |
| Total Consumed                        |      |       | 16597 24    |
| Inventory Dec. 1, 1904, Furnace Kilns |      |       | 1568 04     |
| Total                                 |      |       | 18165 28    |

# PIONEER IRON COMPANY

CARP RIVER FURNACE.

## COMPARATIVE CHARCOAL COST SHEET.

For the ~~Month of~~ Years 1903 & 1904 ~~190~~

| ACCOUNT                    | MONTH OF <u>1903</u> 190 |           |                  | MOS. ENDING <u>1904</u> 190 |           |                  |
|----------------------------|--------------------------|-----------|------------------|-----------------------------|-----------|------------------|
|                            | BUSHELLS                 | AMOUNT    | Cost<br>per Bus. | BUSHELLS                    | AMOUNT    | Cost<br>per Bus. |
| <b>CARP FURNACE KILNS—</b> | <b>866931</b>            |           |                  | <b>723434</b>               |           |                  |
| Wood                       |                          | 44 020 61 | 0509             |                             | 39 352 35 | 0544             |
| Rent of Kilns              |                          | 1800 00   | 0021             |                             | 1800 00   | 0025             |
| Packing                    |                          | 5183 33   | 0060             |                             | 3689 69   | 0051             |
| Kiln Tending               |                          | 1599 93   | 0018             |                             | 1415 80   | 0020             |
| Taking out Braize          |                          | 361 94    | 0004             |                             | 465 82    | 0006             |
| Whitewashing               |                          | 871 02    | 0010             |                             | 641 88    | 0009             |
| Horses                     |                          | 258 48    | 0003             |                             | 204 82    | 0003             |
| Car Drivers                |                          | 639 72    | 0007             |                             | 544 20    | 0008             |
| Coal Forkers               |                          | 2218 87   | 0026             |                             | 1867 39   | 0026             |
| Depreciation of Equipment  |                          | 724 63    | 0008             |                             |           |                  |
| Repairs                    |                          | 192 43    | 0002             |                             | 355 55    | 0005             |
| Superintendent             |                          | 450 00    | 0005             |                             | 450 00    | 0006             |
| Total Cost at Furnace      |                          | 58390 96  | 0673             |                             | 50787 50  | 0703             |
| Average yield per cord     | 47 <sup>3</sup>          |           |                  | 43 <sup>7</sup>             |           |                  |
| Cords Carbonized 1 Mo      |                          |           |                  |                             |           |                  |
| Cords Carbonized Mos       |                          |           |                  |                             |           |                  |
| " " per kiln               | 50 <sup>1</sup>          |           |                  | 53 <sup>5</sup>             |           |                  |
| <b>FROM JOBBERS—</b>       |                          |           |                  |                             |           |                  |
| Coal                       |                          |           |                  |                             |           |                  |
| Freight                    |                          |           |                  |                             |           |                  |
| Switching                  |                          |           |                  |                             |           |                  |
| General Expense            |                          |           |                  |                             |           |                  |
| Insurance on Cars          |                          |           |                  |                             |           |                  |
| Total                      |                          |           |                  |                             |           |                  |
| <b>Grand Total</b>         |                          |           |                  |                             |           |                  |

Bushels of coal per kiln

Large      3390  
Medium    1725  
Small     1059

# PIONEER IRON CO.

CARP RIVER FURNACE.

## COMPARATIVE CHARCOAL COST SHEET.

Month of YEARS 1903 & 1904 190...

RECEIVED

MAR 28 1905

TO THE  
CASHIER  
BY THE  
Treasurer  
PIONEER IRON CO.  
MAR 28 1905

TO THE  
CASHIER  
BY THE  
Treasurer  
PIONEER IRON CO.  
MAR 28 1905

TO THE  
CASHIER  
BY THE  
Treasurer  
PIONEER IRON CO.  
MAR 28 1905

TO THE  
CASHIER  
BY THE  
Treasurer  
PIONEER IRON CO.  
MAR 28 1905



*Duplicate*

PIONEER IRON COMPANY,  
CARP RIVER FURNACE,

Pig Iron Stock Report for the Week Ending *Nov 30* 190*4*

H. Nieddeck Co., Mfg. Stationers, Milwaukee 8958

| PIG IRON GRADES                        | PRODUCTION   |                    |                 |                 |                           |                               |                         |                  |  | SHIPMENTS    |                    |                 |                 |                      | BALANCE IN STOCK |
|--|--------------|--------------------|-----------------|-----------------|---------------------------|-------------------------------|-------------------------|------------------|--|--------------|--------------------|-----------------|-----------------|----------------------|------------------|
|  | CURRENT WEEK | PREVIOUS FOR MONTH | TOTAL FOR MONTH | PREVIOUS MONTHS | OVER AND SHORT FOR SEASON | TOTAL PRODUCED SINCE DEC. 1ST | TRANSFERRED TO AND FROM | ON HAND DEC. 1ST | TOTAL PRODUCED AND IN STOCK SINCE DEC. 1ST | CURRENT WEEK | PREVIOUS FOR MONTH | TOTAL FOR MONTH | PREVIOUS MONTHS | TOTAL SINCE DEC. 1ST |                  |
| A Scotch                               |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| B Scotch                               |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| <del>C Scotch</del> <i>#1 Soft</i>     |              |                    |                 |                 |                           | 198                           | 7                       | 15               | 720  |              |                    |                 | 720             | 720                  |                  |
| No. 1 Special                          |              |                    |                 |                 |                           | 235                           | 10                      | 60               | 285  |              |                    |                 | 232             | 232                  | 53               |
| No. 1 Foundry                          |              |                    |                 |                 |                           | 631                           | 1                       | 259              | 889  |              |                    |                 | 772             | 772                  | 117              |
| No. 2 Low                              |              |                    |                 |                 | + 34                      | 1481                          | 10                      | 424              | 1949                                       |              |                    |                 | 1654            | 1654                 | 297              |
| No. 2 High                             |              |                    |                 |                 |                           | 1456                          | 33                      | 316              | 1805                                       |              |                    |                 | 1615            | 1615                 | 190              |
| No. 3 Low                              |              |                    |                 |                 |                           | 1400                          | 27                      | 257              | 1630                                       |              |                    |                 | 1276            | 1276                 | 354              |
| No. 3 High                             |              |                    |                 |                 |                           | 1458                          | 13                      | 729              | 2174                                       | 500          | 25                 | 525             | 1566            | 2091                 | 83               |
| No. 3 Malleable                        |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| No. 4 Low                              |              |                    |                 |                 | + 3                       | 494                           | 16                      | 216              | 729  |              |                    |                 | 630             | 630                  | 99               |
| No. 4 High                             |              |                    |                 |                 |                           | 356                           | 15                      | 44               | 383  |              |                    |                 | 324             | 324                  | 59               |
| No. 5                                  |              |                    |                 |                 | + 1                       | 245                           | 1                       | 62               | 309  |              |                    |                 | 309             | 309                  |                  |
| No. 6                                  |              |                    |                 |                 |                           | 161                           | 1                       | 37               | 197  |              |                    |                 | 197             | 197                  |                  |
| Spotted                                |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| Castings                               |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| Bessemer Special                       |              |                    |                 |                 |                           |                               |                         |                  |  |              |                    |                 |                 |                      |                  |
| Bessemer <i>#1 Soft</i>                |              |                    |                 |                 |                           |                               |                         | 15               | 15   |              |                    |                 | 15              | 15                   |                  |
| Bessemer <i>#4 High</i>                |              |                    |                 |                 |                           |                               |                         | 176              | 176  |              |                    |                 |                 |                      | 176              |
| Bessemer <i>#5</i>                     |              |                    |                 |                 |                           |                               |                         | 27               | 27   |              |                    |                 | 27              | 27                   |                  |
| <i>Over on yard</i>                    |              |                    |                 |                 | + 38                      | 8115                          |                         | 2635             | 10788                                      | 500          | 25                 | 525             | 8835            | 9360                 | 1128             |
| <i>Overrun at Lake port Apr 30,</i>    |              |                    |                 |                 |                           | 18650                         |                         |                  | 18650                                      |              |                    |                 | 18650           | 18650                |                  |
| <i>Shortage Lake Erie port Nov 30,</i> |              |                    |                 |                 |                           | 56                            |                         |                  | 56   | 500          | 25                 | 525             | 8853            | 9378                 | 1428             |
| <i>Total</i>                           |              |                    |                 |                 |                           | 53 <sup>1000</sup>            |                         |                  | 53 <sup>1000</sup>                         | 500          | 25                 | 525             | 8800            | 9325                 | 1428             |

# PIONEER IRON COMPANY,

CARP RIVER FURNACE DEPARTMENT.

NOAH W. GRAY, MGR.

GEO. A. GARRETSON, President.

WM. G. MATHER, Vice President.

FRED. A. MORSE, Treasurer.

E. V. HALE, Secretary.

MARQUETTE, MICH., March 20, 1905.

RECEIVED

MAR 22 1905

Ack. ....

Ans'd .....

Mr. R. C. Mann,

Cleveland, Ohio.

Dear Sir:-

I herewith enclose you a Consolidated Labor Statement for the year 1904, as per your request in yours of March 16th, showing the average wages of the furnace as \$1.91 per day and the office pay-roll as \$3.93 per day, the average of the whole being \$2.12. I have placed in the rate per day column for January and February the amount paid each class of men, and also for the time afterwards, the wages having been reduced about March 1st. I think this is what you ask for.

Yours truly,

*Noah W Gray*  
Manager.

*Copy Statement  
returned to C. D. Mann 3/21/06  
to be returned soon*

# PIONEER IRON COMPANY.

## CARP RIVER FURNACE DEPARTMENT.

Month of Year 1904

| Labor Statement.              | No. Men. | No. Days. | Earnings. |    | RATE PER DAY.  |             |
|-------------------------------|----------|-----------|-----------|----|----------------|-------------|
|                               |          |           |           |    | Current Month. | Last Month. |
| <b>FURNACE:</b>               |          |           |           |    |                |             |
| Engineer,                     | 1        | 490 1/4   | 490       | 64 | 2 58           | 2 58        |
| Assistant Engineer,           | 2        |           | 741       | 20 | 2 10           | 2 00        |
| Founder,                      | 1        |           | 600       | 00 | 3 22           | 3 22        |
| Keepers,                      | 2        |           | 799       | 26 | 2 25           | 2 15        |
| Helpers,                      | 4        |           | 1284      | 61 | 1 95           | 1 85        |
| Top Fillers,                  | 2        |           | 676       | 15 | 2 10           | 2 00        |
| Bottom Fillers,               | 8        |           | 2276      | 02 | 1 80           | 1 70        |
| Coal Forkers,                 | 0        |           |           |    |                |             |
| Weighmen,                     |          |           |           |    |                |             |
| Iron Handlers,                | 3        |           | 1101      | 21 | 15             | 13          |
| Cinder Snapper,               | 2        |           | 533       | 60 | 1 70           | 1 60        |
| Carpenter,                    |          |           |           |    |                |             |
| Yard Foreman,                 | 1        |           | 885       | 00 | 3 00           | 3 00        |
| Blacksmith,                   |          |           |           |    |                |             |
| Yard Men,                     | 5        |           | 1357      | 69 | 1 60           | 1 50        |
| Sand Men,                     |          |           |           |    |                |             |
| <b>LOADING AND SWITCHING:</b> |          |           |           |    |                |             |
| Rail, 9360 tons,              | 2        |           | 687       | 01 | 07 1/2         | 06 1/2      |
| Lake, "                       |          |           |           |    |                |             |
| Painting, "                   |          |           |           |    |                |             |
| Total,                        | 33       | 5968 3/4  | 11432     | 39 | 1 91           |             |
| Office Pay Roll,              | 3        | 684       | 2694      | 00 | 3 93           |             |
| Grand Total,                  | 36       | 6652 3/4  | 14126     | 39 | 2 12           |             |

**RECEIVED**

MAR 22 1905

Ack. ....

Ans'd .....

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I N V E N T O R Y.

CARP RIVER FURNACE DEPARTMENT

PIONEER IRON COMPANY.

NOV. 30, 1904.

NOAH W. GRAY, Manager.

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I N D E X.

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|   |         |
|---|---------|
| Description of Land.....                  | 1, 2    |
| Description of Furnace and Buildings..... | 2, 3, 4 |
| Tools Bought with Furnace.....            | 4, 5    |
| Inventories--                             |         |
| Ore.....                                  | 6       |
| Limestone.....                            | 6       |
| Fuel.....                                 | 6       |
| Pig Iron.....                             | 6       |
| Supplies.....                             | 6       |
| Insurance.....                            | 6       |
| Furnace Inventory Account--               |         |
| Office.....                               | 7       |
| Yard.....                                 | 7       |
| Laboratory.....                           | 8, 9    |

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DESCRIPTION OF REAL ESTATE BOUGHT OF CARP RIVER FURNACE COMPANY:

Commencing at the intersection of the easterly line of Lake Street, so-called, in the City of Marquette, County of Marquette, and State of Michigan, as now used, with the section line between Sections 26 and 35, Township 48, North, Range 25 West, running thence northwesterly along the easterly line of said Lake Street to its intersection with the westerly line of the right-of-way of the Duluth, South Shore & Atlantic Railway Company; thence southeasterly along the westerly line of said right-of-way to its intersection with the section line between said above named sections 26 and 35; thence west along said section line to the point of beginning.

Also, that portion of Government Lot numbered one (1) of Section 36, Township 48 North, Range 25 West, not sold to the State of Michigan for a portion of the State Prison site.

Also, Lots eighty-four (84), eighty-five (85) and eighty-six (86) of Burt & Ely's Addition to the Village (now City) of Marquette; and that part of Section 35, Township 48 North, Range 25 West, lying east of Lake Street, as shown in the plat of Burt & Ely's Addition to the Village of Marquette, as now used; and also that part of Sec. 35, Township 48 North, Range 25 West, lying south and east of the following boundary line: Beginning at the southeast corner of Lot eighty-seven (87) of Burt & Ely's Addition to the said City of Marquette; thence along the south line of said Lot eighty-seven (87) to the southwest corner of said Lot eighty-seven (87); thence south 2 degrees and 58 minutes east 100 feet; thence south 13 degrees and 58 minutes east 100 feet; thence south 26 degrees and 28 minutes east 100 feet; thence south 43 degrees and 58 minutes east 100 feet; thence south 49 degrees and 28 minutes east 100 feet; thence south 30 degrees and 59 minutes east 100 feet; thence south 11 degrees and 49 minutes east 100 feet; thence south 5 degrees and 11 minutes west 100 feet; thence south 13 degrees and 51 minutes west 425 feet; thence south 5 degrees and 9 minutes east 432 and five-tenths feet;

thence south 13 degrees and 11 minutes west 1100 feet; thence south 57 degrees and 31 minutes west 2080 feet to a point 358 feet east of the northwest corner and on the north line of the south half of the southeast quarter of Section 35, Township 48 North, Range 25 West. It being agreed between the said parties that Lot eighty-seven (87) of Burt & Ely's Addition to the Village (now City) of Marquette is to be kept open as a highway for the common use of the grantor and grantee, and their successors and assigns.

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DESCRIPTION OF FURNACE AND BUILDINGS:

STACK: 58½ feet high by 10-foot bosh; hearth 5' 9". New ~~stack~~ bell and hopper January, 1902. Hoist tower is equipped with an Otis hoist (old pattern); two skips driven by small engine in engine room, which also drives crusher when used.

ENGINE ROOM: Engine Room is a stone building 65' x 30' and 25' high. The blowing engine is of horizontal type, with two blowing cylinders 40" x 6', made by Iron Bay Foundry at Marquette in 1873. The blowing engine has been kept in best repair possible, and is doing good work yet.

room

In basement of engine there are two Smith & Vaile duplex pumps, 12" steam by 7" water cylinder, and one Knowles boiler pump, about 8' x 4".

The 8-inch pipe extending out in the lake was broken ~~two~~ in two by icebergs in the spring of 1903, and we have used the river supply entirely since. It was found impossible to repair the pipe last winter on account of the ice.

BOILER HOUSE: About 28' x 30', in which are two Stirling Water Tube Boilers of 125 horse-power each.

STOCK HOUSE: Stock House is 190 feet long by 65 feet wide, built of timber and covered with corrugated iron, the roof being tar and cement. The trestles in Stock House are in good condition, ~~but~~ the ore track ~~will probably need some repairs~~ having been repaired in the summer of 1904. In the basement is the Blake crusher for crushing limestone, &c.

HOTBLASTS: No. 1--on the hearth level--has been entirely dismantled and sold for scrap.

No. 2 is built on an arch supported by the engine room wall and the stone stack; has eighteen eight-inch pipes, and is in good condition. It will only hold about 550 degrees of heat, making 55

tons of iron per day; so that our iron might be called only warm blast iron.

CASTING HOUSE: 62' x 44', and has a stone foundation and timber frame covered with corrugated iron. At lower end is shed 12 feet wide, in which are the pig iron scales, and in rear of this a blacksmith and carpenter shop 16 feet wide.

STORE HOUSE: An old building 24' x 16' about 50 feet from carpenter shop, used for storing tools, &c.

BARN: 20' x 28', a building on west side of Lake Street, near outlet of Carp river.

#### K I L N S.

Ten 25-cord bee-hive kilns, on west side of Carp River, under bank, from which they are filled.

Nine 42-cord kilns on east side of Carp River, under bank.

These kilns are built of stone and brick, and are now used by Pioneer Furnace No. 2 in furnishing coal for furnace.

Twenty-four 90-cord brick kilns, with stone foundations, and the necessary trestle to fill the kilns from. These kilns have now been used for nearly one and one-half years, and are in as good condition as when built.

Under the contract, Pioneer Furnace No. 2 paid a rental for these kilns of one-quarter cent per bushel, with a minimum of \$12.50 per kiln per month.

OFFICE BUILDING: A one-story wooden building 30' x 20', built on Lot 86.

LABORATORY Building: Attached to rear of Office building, 18' x 20'.

HORSE SHED: On rear of Lot 86.

RAILROAD TRACKS: Consist of three sidings into Stock House, siding and switch back to iron yard and wood bank, and sidings from main lines to old and new kilns on east side of river. The ties and grading were furnished by this company, and the rails on the trestle to kilns were paid for by this company.

TOOLS, &c., BOUGHT WITH FURNACE: These tools have been added to and renewed from time to time, as needed, and charged to Operating Account, so that the furnace is well supplied with necessary tools:

In Engine Room--

- 2 steam gauges in use
- 3 lubricators in use
- 1 set pipe dies and taps
- About 25 Spanner and Socket wrenches
- About 15 chisels and punches
- 1 12-inch monkey wrench
- 1 16-inch Trimeau pipe wrench
- About 300 feet rubber hose, new and old
- 2 brass hose nozzles
- Varied lot of pipe fittings in basement
- 2 pressure gauges
- 1 pipe cutter
- 2 die stocks
- 2 24-inch monkey wrenches
- 1 14 " " "
- 1 set pipe tongs
- 2 lanterns
- 4 kerosene lamps

In Stock House--

- 1 set ore scales
- 20 charcoal buggies
- 1 set charcoal scales
- Shovels and picks
- 3 ore buggies
- 3 pinch bars

In Casting House--

- About 25 steel and iron bars and stopping hooks
- Gates, staples, skimmer, &c.
- 3 heavy sledges
- Shovels, rakes and screens, patterns and sow
- 2 stationery byrometers
- 1 portable "

In Blacksmith Shop--

1 anvil, forge and bellows  
1 ratchet drill  
Tongs, punches and other tools  
1 machine drill press  
1 blacksmith vise  
1 set Lightning taps and dies  
2 monkey wrenches  
12 drills  
1 blacksmith sledge

In Carpenter Shop--

2 handsaws  
3 chisels  
1 hand axe  
1 jack plane  
1 set  $1\frac{1}{2}$ " blocks  
About 200 feet  $1\frac{1}{4}$ " pipe, old  
2 jack screws  
1 crosscut saw  
1 brace and bits  
1 square  
1 grind stone  
1 snatch block  
2 log chains  
1 crab winch

In Yard--

1 set scales for weighing pig iron  
1 iron car  
Shovels and picks  
1 cart harness  
3 wheel barrows  
2 carts

In old Store House--

A quantity of old fire brick

In Ore yard--

Half of set of railroad scales

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INVENTORY OF MATERIALS ON HAND NOV. 30, 1904.

O R E--

Lake Silica, 368-1565/2240 tons, @ \$1.25, .....\$ 460.87

L I M E S T O N E--

219-1569/2000 tons in Stock House, balance account, ... 215.25

FUEL-- Wood on hand, ..... 15.00

INSURANCE--

Fire Insurance.....\$237.00  
Boiler Insurance..... 28.12 265.12

PIG IRON--

On yard Nov. 30, 1428 tons.

SUPPLIES--

4 4-1/2-inch tuyeres.....\$ 80.81  
2 No. 76 tuyeres..... 46.01  
1 wire hoist rope..... 10.55  
Brick..... 25.00 162.37

CASH ACCOUNT--

Cash on hand..... 84 37

ACCOUNTS--

Lake Shore Engine Works..... 539 00  
For 53-1300/2000 tons scrap iron from old  
hotblast, @ \$10.00 per ton.

-----  
*Noah W. Gray*  
Manager.  
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FURNACE INVENTORY ACCOUNT.

O f f i c e--

|  | Cost          | \$                |
|--|---------------|-------------------|
| 1 fire-proof safe,                           | "             | 50.00             |
| 1 " " " ,                                    | "             | 20.00             |
| 1 desk,                                      | "             | 10.00             |
| 1 letter press <del>stand</del> , and stand, | "             | 10.00             |
| 1 standing desk,                             | "             | 5.00              |
| 1 revolving chair,                           | "             | 2.00              |
| 2 arm chairs,                                | "             | 2.00              |
| 3 waste paper baskets,                       | "             | 1.50              |
| 2 cuspidors,                                 | "             | 1.00              |
| 1 stove and pipe,                            | "             | 5.50              |
| 1 set letter scales,                         | "             | 3.00              |
| 4 bill boards,                               | "             | 1.00              |
| 2 letter baskets,                            | "             | 1.00              |
| 1 No. 7 Remington typewriter,                | "             | 100.00            |
| 1 door mat,                                  | "             | 1.25              |
| 1 canopy top buggy and harness               | "             | 50.00             |
| 1 lap robe,                                  | "             | 6.00              |
| 1 barn blanket,                              | "             | 2.25              |
| 1 street blanket,                            | "             | 4.75              |
| 1 halter,                                    | "             | 1.75              |
| 1 heavy robe,                                | "             | 12.00             |
| 1 cutter,                                    | "             | 48.00             |
| 1 string bells,                              | "             | 3.00              |
| 1 harness,                                   | "             | 18.67             |
| 1 buggy,                                     | "             | 92.80             |
| 1 lawn mower,                                | "             | 9.50              |
| 1 new radiator and fittings,                 | "             | 32.22             |
| 1 desk, 3 chairs, 1 rug,                     | "             | 72.99             |
|  |               | <u>567.18</u>     |
| Less canopy-top buggy and harness sold,      |               | 10.00             |
|  |               | <u>557.18</u>     |
| Less Depreciation--                          |               |                   |
| 1900,  | \$ 52.65      |                   |
| 1901,  | 60.14         |                   |
| 1902,  | 127.70        |                   |
| 1903,  | <u>105.56</u> |                   |
|  |               | <u>346.05</u>     |
|  |               | <u>211.13</u>     |
| Less Depreciation for 1904, 25%,             |               | <del>152.22</del> |
|  |               | 52.78             |
|  |               | <u>158.35</u>     |

Y A R D--

|                                  |              |                 |
|----------------------------------|--------------|-----------------|
| 1 cart horse,                    | "            | \$150.00        |
| 1 driving horse,                 | "            | 187.50          |
| Trading horses,                  |              | 130.00          |
| 3 oil tanks,                     |              | 13.10           |
| Charcoal buggies,                |              | 11.96           |
|                                  |              | <u>492.56</u>   |
| Less Depreciation--              |              |                 |
| 1900,                            | \$ 30.00     |                 |
| 1901,                            | 60.14        |                 |
| 1902,                            | 136.21       |                 |
| 1903,                            | <u>66.55</u> |                 |
|                                  |              | <u>292.90</u>   |
|                                  |              | <u>199.66</u>   |
| Less Depreciation for 1904, 25%, |              | 49.66           |
|                                  |              | <u>\$150.00</u> |

Laboratory--

|  |         |
|--|---------|
| 2 Prof. Richards' filter pumps,          | \$ 2 62 |
| 1 Sargent Anal. balance,                 | 90 00   |
| 1 Baker scales,                          | 6 80    |
| 1 Set Gram. weights,                     | 11 00   |
| 1/2 Doz. 1/2 liter reagent bottles,      | 1 00    |
| 6 Camel hair brushes,                    | 90      |
| 5 Dangler gasoline burners,              | 7 50    |
| 2 50cc Burett's common stop cocks, 1/10, | 3 50    |
| 1 50cc " " " "                           | 1 50    |
| 5 Val. floats, nipples,                  | 1 87    |
| 4 Clamps,                                | 3 00    |
| 3 Swivel clamps,                         | 4 50    |
| 1/4 Doz. calcium tubes,                  | 34      |
| 1/4 " " " 6", U,                         | 1 00    |
| 1/4 " " " " plain,                       | 1 80    |
| 1/2 " small clamps,                      | 55      |
| 1 Set cork borers, 1 to 6,               | 90      |
| 1 Plate and rubber,                      | 7 50    |
| 1 Prof. S. burette, blue lined,          | 1 32    |
| 1 Guissler's "                           | 2 07    |
| 1/4 Doz. Por. evaporating dishes,        | 1 24    |
| 1 Drying oven, copper,                   | 7 50    |
| 2 Dessicators, 4-3/4",                   | 1 20    |
| 1/2 Doz. flasks, 16 Oz.,                 | 1 20    |
| 1/2 " " 8 "                              | 30      |
| 1 500cc flask,                           | 45      |
| 1 300cc "                                | 38      |
| 1 100cc "                                | 22      |
| 1 1000cc "                               | 57      |
| 1 2000cc "                               | 78      |
| 1/2 Dz. funnels, 3" diameter,            | 57      |
| 1/2 " " 6" "                             | 45      |
| 1/4 " " 2" "                             | 22      |
| 1 Separating funnel 100cc,               | 94      |
| 1 " G. S.                                | 75      |
| 1 " S. C.                                | 75      |
| 1 " Syphon,                              | 1 73    |
| 2 Lbs. glass tubing,                     | 78      |
| 1 " glass rods,                          | 38      |
| 1 500cc graduated cylinder,              | 90      |
| 1 250cc graduated cylinder,              | 60      |
| 3 Dz. castors,                           | 1 80    |
| 1 " "                                    | 60      |
| 1 Lamp,                                  | 4 00    |
| 1 Mortar, 3 Gal.,                        | 6 00    |
| 1 " 1/2-pint,                            | 23      |
| 1 200cc pipette,                         | 75      |
| 1 50cc, "                                | 40      |
| 1 10cc "                                 | 15      |
| 1 5cc "                                  | 11      |
| 1 25cc "                                 | 67      |
| 1 Platinum cone, diam. top 1-1/4 inches, | 4 50    |
| 54 grams platinum in crucibles,          | 40 50   |
| 4 100-mesh sieves,                       | 4 00    |
| 1 Support,                               | 50      |
| 1 " "                                    | 75      |
| 1 Thermometer, 200 degrees centigrade,   | 1 27    |
| 1 Tripod, diam. 6 inches,                | 38      |
| 1 Wedgewood mortar, 6",                  | 81      |
| 1 Agate mortar, 4",                      | 6 75    |
| 1 Diamond steel mortar,                  | 1 30    |
| 1 Hydrometer,                            | 75      |
| 1 Graduate, 500cc,                       | 1 65    |

Laboratory Cont'd--

|                                       |          |               |
|---------------------------------------|----------|---------------|
| 2 7024 supports,                      |          | \$ 1 00       |
| 1 Magnet,                             |          | 68            |
| 1 Weatherhead crusher,                |          | 25 00         |
| Haskiss burners and tank,             |          | 15 00         |
| 1 Muffle,                             |          | 75            |
| 1/2 Dz. crucibles,                    |          | 60            |
| 1/2 " precipitating jars,             |          | 3 00          |
| 1 Syphon,                             |          | 1 00          |
| 1 Gasoline blast lamp,                |          | 10 00         |
| 6 Dz. #2 beakers,                     |          | 9 72          |
| 3 " " "                               |          | 2 70          |
| 3 Beaker brushes,                     |          | 78            |
| 3 Burette brushes,                    |          | 1 35          |
| 36 feet 3/16 rubber tubing,           |          | 2 70          |
| 36 " 5/16 " "                         |          | 4 05          |
|                                       |          | <u>327 43</u> |
| Less charged to Analysis when bought, |          | 30 78         |
|                                       |          | <u>296 65</u> |
| Less Depreciation--                   |          |               |
| 1900,                                 | \$ 74.93 |               |
| 1901,                                 | 42.14    |               |
| 1902,                                 | 70.12    |               |
| 1903,                                 | 27.36    |               |
|                                       |          | <u>214 55</u> |
|                                       |          | 82 10         |
| Less Depreciation for 1904, 25%,      |          | <u>22 10</u>  |
|                                       |          | \$ 60 00      |

RECAPITULATION.

|                 |              |
|-----------------|--------------|
| Office.....     | \$158.35     |
| Yard.....       | 150.00       |
| Laboratory..... | <u>60.00</u> |
| Total.....      | \$368.35     |





