

Misc Data File

~~ADMINISTRATIVE REPORTS AND~~

STATISTICS

YEAR ENDING DEC. 31, 1908

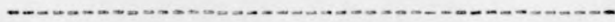
Fore. & Land Depts.

#2089

112

AGENT'S ANNUAL REPORTS AND STATISTICS

FOR YEAR ENDING DEC. 31, 1908



INDEX

1	....	Miscellaneous Data - Furnace Dept. - C.C.I.Co.,	.....	1	✓
2	....	" " " - " " - P. I. Co.,	.....	2	✓
3	....	" " " - Land Dept. - C.C.I.Co.,	.....	3	✓



THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

PAGE.

PAGE.

1	Comparative Cost Sheet - Pig Iron,.....	1
2	" " " Charcoal,.....	2
3	" " " Alcohol Plant No.1,.....	3
4	" " " Alcohol Plant No.2,.....	4
5	" " " Acetate Plant No.1,.....	5
6	" " " Acetate Plant No.2,.....	6
7	" " " Wood - Alger Camp,.....	7
7	" " " " - Matthews Camp,.....	7
7	" " " " - Limestone Camp,.....	7
8	" " " " - Southerland - Innes,.....	8
9	" " " Operating Employees Club,.....	9
10	Cost Sheet - Loading and Hauling - Matthews Camp,.....	10
11	" " " " " Limestone Camp,.....	11
12	" " " " " Alger Camp,.....	12
13	" " " Operating Rented Buildings,.....	13
14	Annual Labor Statement - Comparative,.....	14
15	Cost of Operating - Matthews Soft Wood Job,.....	15
16	" " " 1907 - 1908 Matthews - Delosh Job,.....	16
17	" " " Shops,.....	17
18	" " " Stable - Comparative,.....	18
19	" " " Laboratory - Comparative Including P. I. Co.,.....	19
20	General Expense, - Comparative,.....	20
21	Donation Expense - Comparative,.....	21
22	Legal Expense - Comparative,.....	22
23	Fire Insurance in Force - Detailed Statement,.....	23
24	Uninsured Property - Detailed Statement,.....	24
25	Taxes - Detailed Comparative Statement,.....	25
26	Coal Used and Purchased - Detailed Statement,.....	26
27	Wood Used and Received - Comparative Statement,.....	27
28	Salaries and Perquisites - Comparative 5 years,.....	28
29	Per Cent. of Division of Common Expense,.....	29
30	Land Sales to November 30, 1903,.....	30
31	Land Sales and Options for the year 1903,.....	31
32	Vacant Property in City of Gladstone,.....	32
33	Sales of Gladstone City Property,.....	33
34	Southerland - Innes Land Released from Taxes,.....	34
35	Sales of Bark from Matthews Soft Wood Job,.....	35
36	Mileage of Charcoal Cars - Comparative Statement,.....	36
37	New Construction and Improvement Statement,.....	37
38	" " " " Charged Off,.....	38
39	" " " " " " ,.....	39
40	" " " " " " ,.....	40
41	Stock Report - Miscellaneous,.....	41
42	" " " Pig Iron,.....	42
43	" " " Supplies, Equipment, Ore and Wood, Charcoal and Limestone,.....	43
44	" " " Forest Products,.....	44
45	Side Ledger Trial Balance - Furnace,.....	45
46	" " " " Chemical Plant No.1,.....	46
47	" " " " " Plant No.2,.....	47
48	" " " " Acetate Plant No.1,.....	48
49	" " " " " Plant No.2,.....	49



DETAIL OF STOCK USED.

O R E	1908						1907								
	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used			
Lake Maas	33332-	133	3 521	117359	91	3 993	56	3	60164-	2180	3 460	208188	01 5 536	80 <sup>1</sup> / <sub>7</sub>	
Cliffs Shaft	20309-	1304	3 518	71443	71	2 430	34	7	1305-	1780	3 667	4789	96	127	1 <sup>1</sup> / <sub>2</sub>
Sec.16 Hematite	1638-	795	4 617	7563	11	257	2	1	7670-	20	4 242	32539	73	865	10 <sup>2</sup> / <sub>6</sub>
Lake Silica	1834-	280	2 155	3952	87	135	3	1	469-	400	2 137	1003	12	027	5 <sup>6</sup> / <sub>6</sub>
Imperial	919-	483	1 600	1471	52	050	1	5	4148-	760	1 659	6880	20	183	5 <sup>6</sup> / <sub>6</sub>
Lucy	650-	800	2 510	1632	33	056	1	2							
Negaunee	558-	204	2 638	1472	20	050			1312-	1820	3 675	4829	21	128	1 <sup>8</sup> / <sub>8</sub>
Brands for Thawing Ore				579	48	020						519	62	014	
Scrap				14	60	000									
Adjustment a/c Abbotsford Ore				156	59	005									
Bonuses a/c Ore Analysis				1654	22	056						762	06	020	
Penalties a/c Ore Analysis				1349	12	046						3713	95	099	
Adjustment of Ore Prices				4863	84	166									
<b>Total</b>	<b>59241-</b>	<b>1759</b>	<b>3 394</b>	<b>201087</b>	<b>58</b>	<b>6 840</b>	<b>100</b>		<b>75071-</b>	<b>240</b>	<b>3 408</b>	<b>255797</b>	<b>96</b>	<b>6 801</b>	<b>100</b>
Limestone	2310-	1110	1 122	2592	26	088			4132-	1310	1 040	4297	98	114	
Charcoal (Bushels)	2910844		0842	245219	24	8 341			3558575		0970	345150	34	9 176	

Made by SWA  
 Figured by SWA  
 Copied by SWA  
 Corrected by SWA  
 Examined by SWA

*Stock Rep't shows 2336-1765 Tons*

THE CLEVELAND-CLIFFS IRON COMPANY.  
Furnace Department.

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1908 AND 1907.

Number of Blast Snd.  
Tons Made this Blast 288918.

	TONS IRON MADE 1908, 29398. No. Days OPERATED '08, 298				TONS IRON MADE 1907, 32768. No. Days OPERATED '07, 339			
	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton
<b>GENERAL EXPENSE:</b>								
Insurance		122 12	122 12	004		125 04	125 04	003
Taxes		3395 05	3395 05	116		3284 14	3284 14	087
Analysis	1408 73	584 63	1993 36	068	790 84	158 39	949 23	025
Salaries & Other Expenses	6952 00	3256 42	10208 42	347	7809 46	3249 19	11058 65	295
<b>Total</b>	<b>8360 73</b>	<b>7358 22</b>	<b>15718 95</b>	<b>535</b>	<b>8600 30</b>	<b>6817 66</b>	<b>15417 96</b>	<b>410</b>
<b>MAINTENANCE:</b>								
Trucks & Yard	690 79	160 47	851 26	029	1324 67	678 66	2003 33	053
Trestles & Dock	226 02	43 73	269 75	009	2828 39	3213 64	6042 03	161
Buildings	375 43	523 38	898 81	031	713 52	788 78	1502 30	040
Machinery	811 08	647 86	1458 94	050	768 85	900 65	1759 50	047
Tuyeres	300 53	1409 91	1710 44	058	154 03	1064 82	1218 85	032
Relinings & Renewals		2949 60	2949 60	100		3771 10	3771 10	100
Water Supply	15 17	26 98	42 15	001	37 23	56 75	143 98	004
Pig Iron Trucks, Coal & Ore Buggies	571 14	132 01	703 15	025	423 55	172 44	595 99	016
Stack	104 50	76 32	180 82	006	77 41	82 24	159 65	004
Stoves	328 46	263 48	591 94	020	246 03	49 21	295 24	008
Cleaning Up	707 35	151 33	858 68	029	618 54	153 84	772 38	021
<b>Total</b>	<b>4180 47</b>	<b>6386 07</b>	<b>10516 54</b>	<b>358</b>	<b>7242 22</b>	<b>11022 13</b>	<b>13264 35</b>	<b>486</b>
<b>OPERATING:</b>								
Machinery	3597 61	1219 09	4816 70	164	3651 47	1379 47	5030 94	134
Electric Light	219 87	229 53	449 40	015	137 90	168 53	306 43	008
Bottom Fillers	9523 80	301 59	9825 39	334	11834 49	345 73	12180 22	324
Top Fillers	2338 44	3 36	2341 80	079	2843 86	2 51	2851 37	076
Handling Iron	4523 47	14 27	4537 74	154	6123 54	12 54	6136 08	163
Handling Cinder	2518 13	882 25	3400 38	116	3061 10	331 59	3892 69	104
Weighing & Grading Iron	705 10		705 10	024	730 05		730 05	019
Founders, Keepers & Helpers	3322 31	14 50	3336 81	301	10446 58		10446 58	278
Coal Forkers	7355 06	166 52	7521 58	257	8912 89	239 05	9151 94	243
Casting Tools	299 03	460 63	759 66	026	263 20	374 13	637 33	017
Sand & Clay	891 66	933 16	1824 82	062	1091 21	1163 73	2259 94	060
Filtering	5 26	184 12	189 38	006	11 73	196 43	208 21	006
Wood	51 65	421 22	472 87	016	58 07	429 81	487 88	013
Cleaning Stoves	61 59		61 59	002	427 09	339 56	767 55	020
Boiler Fuel Tons 1908, 135.3 Tons 1907, 191.6	33 24	445 27	478 51	016		353 03	353 03	009
Expense of Wreck						1159 55	1159 55	031
<b>Total</b>	<b>40946 22</b>	<b>5275 51</b>	<b>46221 73</b>	<b>1 572</b>	<b>49599 13</b>	<b>7006 71</b>	<b>56592 84</b>	<b>1 505</b>
<b>STOCK USED:</b>								
Ore	76 64	201010 94	201087 58	6 840		255797 96	255797 96	6 301
Charcoal		245219 24	245219 24	3 341		345150 34	345150 34	9 176
Limestone		2592 26	2592 26	088		4297 98	4297 98	114
<b>Total</b>	<b>76 64</b>	<b>448822 44</b>	<b>448899 08</b>	<b>15 269</b>		<b>605246 28</b>	<b>605246 28</b>	<b>16 091</b>
<b>Cost of Production</b>	<b>53514 06</b>	<b>467842 24</b>	<b>521856 30</b>	<b>17 734</b>	<b>65441 65</b>	<b>630086 78</b>	<b>625528 43</b>	<b>18 492</b>
<b>DEPRECIATION:</b>								
Equipment		1183 74	1183 74	040		1017 65	1017 65	027
Construction						5741 42	5741 42	153
Improvement						6930 23	6930 23	184
Appreciation of Inventory		139 53	139 53	004		68 99	68 99	002
<b>Total</b>		<b>1044 21</b>	<b>1044 21</b>	<b>086</b>		<b>13620 31</b>	<b>13620 31</b>	<b>362</b>
<b>Total Cost on Yard</b>	<b>53514 06</b>	<b>468886 45</b>	<b>522400 51</b>	<b>17 770</b>	<b>65441 65</b>	<b>642767 09</b>	<b>709148 74</b>	<b>18 354</b>
<b>LOADING &amp; SWITCHING: 1908</b>								
Loading Cars Tons 7782		494 96	494 96	064	2 40	1917 51	1919 91	068
Switching "		46 03	123 34	016	216 12	135 43	351 55	012
<b>Total Loading Cars</b>	<b>77 26</b>	<b>541 04</b>	<b>618 30</b>	<b>021</b>	<b>218 52</b>	<b>2052 94</b>	<b>2271 46</b>	<b>061</b>
Loading Vessels 16914		2376 28	2759 43	004	352 16	1347 75	1699 91	045
<b>GRAND TOTAL</b>	<b>53974 47</b>	<b>471803 77</b>	<b>525778 24</b>	<b>17 885</b>	<b>66012 33</b>	<b>647107 78</b>	<b>713120 11</b>	<b>18 960</b>
<b>SUMMARY OF COST PER TON</b>								
	1908			1907			YIELD	
Cost on Yard as above	On Yard	On Cars	On Vessel	On Yard	On Cars	On Vessel	1908	1907
Cost to Load as above	17 885	17 885	17 885	18 854	18 854	18 854	49 6 Ore	50 1
		080	163		080	172	99 0 Coal	94 6
Commission and Expenses, Cleveland Office	350	350	350	350	350	350	176 0 Flux	246 0
<b>Total Cost</b>	<b>18 235</b>	<b>18 315</b>	<b>18 398</b>	<b>19 204</b>	<b>19 284</b>	<b>19 376</b>	Cost per ton for labor	
							1 83c X	1 755

REMARKS:

General Expense (Salaries & Other Expenses) charged 26% of General Office and 58% of Gladstone Office, Year 1908.  
General Expense (Salaries & Other Expenses) charged 29% of General Office and 65% of Gladstone Office, Year 1907.

OVER-RUN IN ORES:

Maas 133-1378 From November 30th, 1907 to August 31st, 1908.  
Sec. 16 Hematite 146-2110 From October 30th, 1907 to September 30th, 1908.  
Imperial 31- 545 From July 31st, 1907 to August 31st, 1908.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

**COMPARATIVE  
CHARCOAL COST SHEET.**

For the years of 1908 and 1907

ACCOUNT	1908			1907		
	BUSHELS	AMOUNT	Cost per Bus.	BUSHELS	AMOUNT	Cost per Bus.
<b>PIONEER FURNACE KILNS—</b>	<b>1758580</b>			<b>1967940</b>		
Wood,	108914	29	0619	132017	47	0671
Loading from Yard,	567	68	0003	544	69	0003
Packing,	9679	46	0055	12061	65	0061
Kiln Tending,	3252	96	0019	3897	50	0020
Taking out Breeze,	1293	47	0007	1387	14	0007
Whitewashing,	1479	62	0008	1770	68	0009
Cleaning out Kilns,	637	60	0004	842	19	0004
Depreciation,	4396	45	0025	4919	85	0025
Repairs,	472	60	0003	3269	01	0017
Shortage Parsons Wood				6664	71	0033
<b>Total,</b>	<b>130694</b>	<b>13</b>	<b>0743</b>	<b>167374</b>	<b>89</b>	<b>0850</b>
Average yield per cord,			44 <sup>2</sup>			44 <sup>1</sup>
Cords Carbonized,			39799			44621
Cords Carbonized per Kiln,			570			637
Bushels per Kiln, small,			29958			25660
Bushels per Kiln, large,			28471			33746
<b>PIONEER FURNACE RETORTS—</b>	<b>568460</b>			<b>693540</b>		
Wood, <i>v. 69</i>	33099	28	0582	44874	28	0647
Loading Cradle Cars,	2760	21	0049	3361	76	0048
Filling and Pulling,	1380	08	0024	1683	77	0024
Tending,	750	00	0013	898	80	0013
Firing,	2401	80	0042	2983	25	0043
Fuel,	12200	14	0215	16141	27	0233
Sand and Cement,	68	82	0001	81	43	0001
Depreciation,	7389	98	0130	9016	02	0130
Repairs,	2872	22	0051	4292	04	0062
Wood Splitters	2239	07	0039	2700	92	0039
<b>Total,</b>	<b>65161</b>	<b>60</b>	<b>1146</b>	<b>86033</b>	<b>54</b>	<b>1240</b>
Average Yield per Cord,			46 <sup>2</sup>			46 <sup>2</sup>
Cords Carbonized 1 Mo.			12278			14997
Cords Carbonized Mes.			608			643
Lbs. Fuel per cord of wood,						
<b>FROM JOBBERS—Mashek Chem &amp; I. Co.,</b>	<b>479836</b>			<b>721887</b>		
Coal,	37128	36	0774	65359	52	0906
Freight,	4193	66	0087	6279	76	0087
Switching,	157	11	0003	231	67	0003
General Expense,				3	00	0000
Insurance on Cars,	41	32	0001	62	00	0001
Repairs of Cars	779	49	0016	1106	93	0015
<b>Total,</b>	<b>42299</b>	<b>94</b>	<b>0881</b>	<b>73042</b>	<b>88</b>	<b>1012</b>
<b>FROM JOBBERS—Algoma Steel Co.,</b>	<b>91655</b>			<b>174688</b>		
Coal,	3666	20	0400	13919	07	0797
Freight,	1298	49	0142	2410	87	0138
Switching,	28	85	0003	45	47	0003
General Expense, Duty	843	80	0092	2654	07	0152
<b>Total,</b>	<b>5837</b>	<b>34</b>	<b>0637</b>	<b>19029</b>	<b>48</b>	<b>1090</b>
<b>FROM JOBBERS—</b>	<b>4940</b>			<b>12300</b>		
Coal,	321	10	0650	799	50	0650
Freight,	43	71	0088	36	00	0029
Switching,	2	15	0003	3	85	0003
General Expense,						
<b>Total,</b>	<b>366</b>	<b>96</b>	<b>0741</b>	<b>839</b>	<b>35</b>	<b>0682</b>
<b>Grand Total,</b>	<b>2903471</b>	<b>244359</b>	<b>97</b>	<b>3570355</b>	<b>346320</b>	<b>14</b>
			<b>0842</b>			<b>0970</b>

REMARKS:

Made by OSM  
 Signed by OSM  
 Copied by OSM

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1908 AND 1907

Plant No 1	GALLONS PRODUCED 1908, 148308 No. Days Operated 1908, 305					GALLONS PRODUCED 1907, 64708½ No. Days Operated 1907, 360								
	Labor		Supplies		Total	Cost Per Gal.	Labor		Supplies		Total	Cost Per Gal.		
<b>GENERAL EXPENSE:</b>														
Insurance			1575	00	1575	00	011		1575	00	1575	00	024	
Taxes			848	81	848	81	006		821	04	821	04	013	
Analysis	1098	08	243	57	1341	65	009	893	65	158	37	1052	02	016
Salaries & Other Expenses	1876	03	1134	66	3010	69	020	1630	77	1281	34	2912	11	045
<b>Total</b>	2974	11	3802	04	6776	15	046	2524	42	3835	75	6360	17	098
<b>MAINTENANCE:</b>														
Tanks & Still	770	67	366	18	1136	85	008	615	54	573	57	1189	11	019
Condensers	94	86	120	13	214	99	001	27	60	128	54	156	14	002
Machinery	294	96	167	54	462	50	003	169	84	517	67	687	51	011
Boilers	251	44	264	83	516	27	004	93	68	76	09	169	77	002
Fans & Pulleys	92	43	334	00	476	43	003	108	53	456	52	565	05	008
Smoke Mains	124	45	23	77	148	22	001	163	06	493	62	662	53	010
Buildings	40	84	22	14	62	98	000	77	83	30	03	107	86	002
Water Supply	57	75	3	10	60	85	000	4	12	26		4	38	000
Ditch	63	13	19	10	82	23	001	85	96	57		86	53	002
Cleaning Up	16	63	6	34	81	87	001	20	86	14	09	34	95	001
Chute Apparatus	27	75	77	68	105	43	001	56	30	24	10	80	40	001
<b>Total</b>	1834	91	1513	71	3348	62	023	1429	23	2315	06	3744	23	058
<b>OPERATING:</b>														
Superintendent	562	50			562	50	004	750	00			750	00	012
Stillmen	4350	33	61	72	4412	05	030	5094	61	23	83	5118	44	079
Engineers	2739	75			2739	75	018	3266	51			3266	51	051
Firemen	775	14		59	775	73	005	575	15	99		576	14	009
Machinery	4	12	126	21	130	33	001			136	55	136	55	002
Boilers	98	44	31	59	130	03	001	123	89	58	20	182	09	003
Fuel, Tons	1908	1907												
Electric Light	716.6	736.97			2400	61	015			2289	25	2289	25	035
Lime			39	98	165	23	001	31	89	75	08	106	97	001
Chemicals			1281	00	1281	00	009			1537	20	1537	20	024
Chute Apparatus			222	37	222	37	002			76	90	76	90	001
Condensermen	1140	33	3	40	1143	73	008	1342	25	90	64	91	52	001
Hose			200	00	200	00	001			2	50	1344	75	021
<b>Total</b>	9795	86	4367	47	14163	33	095	11185	18	4461	14	15646	32	242
<b>Cost of Production</b>	14604	82	9633	22	24238	10	164	15138	82	10611	95	25750	77	398
<b>DEPRECIATION:</b>														
Improvement			24545	40	24545	40	165			24818	51	24818	51	384
Inventory			2	27	2	27	000			28	13	28	13	000
<b>Total</b>			24547	67	24547	67	165			24846	64	24846	64	384
<b>Total Cost</b>	14604	83	34230	89	48835	77	329	15138	82	35458	59	50597	41	782
<b>LOADING &amp; SWITCHING:</b>														
Barrels	1908	1907												
Loading	159957½	58893			6562	05	041			2250	90	2250	90	038
Switching	"	"			44	34	001	35	80	62		36	42	001
<b>Total</b>					12	25	000	3	34	2	22	5	56	000
<b>Total</b>	94	71	6613	77	6708	43	045	39	14	2253	74	2292	83	035
<b>TOTAL COST ON CARS</b>	14699	59	40844	66	55544	25	374	15177	06	37712	33	52890	29	817
Improvement Account Not Sunk Off					86962	51	368					108219	72	136
Yield per cord of Wood														
Smoke Received from 40384 cords 1908.														
Smoke Received from 47522 cords 1907.														

REMARKS: General Expense (Salaries & Other Expenses) charged 7.20% of General Office and 16% of Gladstone Office  
General Expense (Salaries & Other Expenses) charged 5.5% General Office and 12.1% Gladstone Office, 1907.

Made by JWA  
Figured by JWA  
Copied by JWA  
Corrected by JWA  
Examined by JWA

4.25  
see my  
annual  
11/19



THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1908 AND 1907

PLANT NO. 2	GALLONS PRODUCED 1908, 91279 1/2 No. Days Operated 1908, 301				GALLONS PRODUCED 1907, 29282 No. Days Operated 1907, 352			
	Labor	Supplies	Total	Cost Per Gal.	Labor	Supplies	Total	Cost Per Gal.
<b>GENERAL EXPENSE:</b>								
Insurance		2250 00	2250 00	025		2250 00	2250 00	077
Taxes		848 81	848 81	009		821 04	821 04	028
Analysis	714 32	248 56	957 88	011	893 60	158 36	1051 96	036
Salaries & Other Expenses	1018 75	640 68	1659 43	018	1371 59	678 86	2050 45	070
Total	1733 07	3983 05	5716 12	063	2265 19	3908 26	6173 45	211
<b>MAINTENANCE:</b>								
Tanks & Stills	383 27	202 88	586 15	006	304 58	462 18	766 76	026
Condensers	103 56	1082 50	1186 06	013	2 48	81	3 29	000
Machinery	71 20	10 96	82 16	001	113 08	124 66	237 74	008
Boilers	257 04	180 92	437 96	005	756 00	929 86	1685 86	058
Buildings	53 52	38 73	92 25	001	75 59	25 75	101 34	003
Water Supply	86 32	19	86 51	001	1 96	19	2 15	000
Ditch	81 16	70	81 86	001	107 02	8 05	115 07	004
Cleaning Up	19 19	42 04	61 23	001	16 39	11 02	27 41	001
Total	1065 26	1553 92	2609 18	029	1377 10	1562 52	2939 62	100
<b>OPERATING:</b>								
Superintendent	562 50		562 50	006	750 00		750 00	026
Stillmen	2294 09	56 57	2350 66	028	3015 19	14 25	3029 44	104
Firemen	1580 25	33	1580 58	018	1847 87	64	1848 51	063
Machinery		97 19	97 19	001		150 86	150 86	005
Boilers	142 81	25 42	168 23	002	163 41	52 54	215 95	007
Fuel, Tons (4420-0780, 1908. ✓)	596 58	15032 39	15628 97	171	843 95	12928 68	13772 63	471
Electric Light (3898-0423, 1907. ✓)	41 33	34 30	75 63	001	50 44	58 54	106 98	003
Line		2112 90	2112 90	023		2276 40	2276 40	078
Chemicals		45 07	45 07	000		54 00	54 00	002
Hose		200 00	200 00	002		170 00	170 00	006
Total	5217 56	17604 17	22821 73	250	6670 86	15702 91	22374 77	765
Cost of Production	8005 89	23141 14	31147 03	342	10313 15	21174 69	31487 84	1 076
<b>DEPRECIATION:</b>								
Improvement		6516 48	6516 48	071		7184 43	7184 43	245
Inventory		2 27	2 27	000		28 13	28 13	001
Total		6518 75	6518 75	071		7212 56	7212 56	246
Total Cost	8005 89	29659 89	37665 78	413	10313 15	28387 25	38700 40	1 322
<b>LOADING &amp; SWITCHING:</b>								
Barrels	1908 100995 1/2	1907 29471 1/2						
Loading	50 18	4132 80	4132 80	041		1007 00	1007 00	031
Switching	7 90	18 76	68 94	001	10 79		10 79	000
		4 80	12 70	000	1 86	1 32	3 18	000
Total	58 08	4156 36	4214 44	046	12 65	1008 32	1020 97	035
<b>TOTAL COST ON CARS</b>								
	8062 97	33816 25	41880 22	459	10325 80	29395 57	39721 37	1 357
Improvement Not Sunk Off			20876 40				27392 88	
Yield of Alcohol per cord of Wood Smoke Received From Gords				7 1/2 ✓ 12278 ✓				1 95 14997

REMARKS: General Expense (Salaries & Other Expenses) charged 4.05% of General Office and 9% of Gladstone Office, 08.  
General Expense (Salaries & Other Expenses) charged 5 1/2% of General Office and 12 1/2% of Glad. Office, 1907.

Made by \_\_\_\_\_  
Figured by \_\_\_\_\_  
Copied by \_\_\_\_\_  
Corrected by \_\_\_\_\_  
Examined by \_\_\_\_\_

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1908 AND 1907.

Plant No.1	POUNDS PRODUCED 1908, 3264283				POUNDS PRODUCED 1907, 3534345			
	Average Per Day 1908		10809		Average Per Day 1907		9956	
	No. Days Operated 1908, 302				No. Days Operated 1907, 355			
	Labor	Supplies	Total	Cost Per Cwt.	Labor	Supplies	Total	Cost Per Cwt.
<b>GENERAL EXPENSE:</b>								
Insurance		2 04	2 04	000		2 04	2 04	001
Analysis	740 70	40 58	781 28	024	234 55	26 40	260 95	007
Salaries & Other Expenses	1492 99	654 07	2153 06	066	839 33	343 72	1188 05	033
<b>Total</b>	<b>2239 69</b>	<b>696 69</b>	<b>2936 38</b>	<b>090</b>	<b>1073 88</b>	<b>377 16</b>	<b>1451 04</b>	<b>041</b>
<b>MAINTENANCE:</b>								
Buildings	79 85	25 87	105 72	003	74 54	4 56	79 10	002
Tanks		40	40	000	3 41	2 65	6 06	000
Conveyors					18 60	17 36	35 96	001
Dry Floor	419 85	387 56	807 41	025	60 70	11 61	72 31	002
Piping	41 39	63 37	104 76	003	21 79	69 13	90 92	003
Boilers	454 46	457 08	911 54	028	105 80	149 84	255 64	008
Pans	13 45	24 27	37 72	001	58 94	10 33	69 27	002
Machinery	5 59	68	6 27	000	2 67	2 19	4 86	000
Cleaning Up	18 97		18 97	001	4 00	2 76	6 76	000
<b>Total</b>	<b>1033 56</b>	<b>959 23</b>	<b>1992 79</b>	<b>061</b>	<b>350 45</b>	<b>270 43</b>	<b>620 88</b>	<b>018</b>
<b>OPERATING:</b>								
Skimming					49 21	2 75	51 96	001
Contractors	4196 89	16 35	4213 24	129	4010 40	13 87	4624 27	131
Machinery		2 90	2 90	000		5 20	5 20	000
Firemen	1546 52	86	1547 38	047	1139 04	88	1139 92	032
Fuel, Tons	1234 86	24003 84	25238 70	773	1158 69	19868 17	21026 86	595
Electric Light	4 75	5 35	10 10	000	13 27	14 75	28 02	001
Boilers	196 89	63 90	260 79	008	145 45	111 70	257 15	007
Lime		3056 10	3056 10	094		3231 60	3231 60	092
<b>Total</b>	<b>7179 91</b>	<b>27149 30</b>	<b>34329 21</b>	<b>1 051</b>	<b>7116 06</b>	<b>23248 32</b>	<b>30364 08</b>	<b>859</b>
<b>Cost of Production</b>	<b>10453 16</b>	<b>28305 22</b>	<b>32258 38</b>	<b>1 202</b>	<b>8540 39</b>	<b>23896 51</b>	<b>32430 90</b>	<b>918</b>
<b>DEPRECIATION:</b>								
Improvement		4161 24	4161 24	128		4161 24	4161 24	118
<b>Total Cost</b>	<b>10453 16</b>	<b>32966 46</b>	<b>43419 62</b>	<b>1 330</b>	<b>8540 39</b>	<b>28057 75</b>	<b>36598 14</b>	<b>1 036</b>
<b>LOADING &amp; SWITCHING:</b>								
Sacks	1908 3264283	1907 3534345	2534 91	2534 91	077	3006 94	3006 04	085
Loading	372 956	3254596	276 31	8 00	008	215 00	215 00	007
Switching	"	"	24 15	14 28	001	17 86	28 47	001
Storing	3264283	3534345	413 19	413 19	013	159 98	159 98	005
<b>Total</b>	<b>713 65</b>	<b>2557 19</b>	<b>3270 84</b>	<b>1 00</b>	<b>392 84</b>	<b>3017 55</b>	<b>3410 39</b>	<b>096</b>
<b>TOTAL COST ON CARS</b>	<b>11166 81</b>	<b>35523 65</b>	<b>46690 46</b>	<b>1 430</b>	<b>8933 23</b>	<b>31075 30</b>	<b>40008 53</b>	<b>1 132</b>
Improvement Account Not Sunk Off			12165 18				16187 26	
Yield per cord of Wood				81 <sup>0</sup> / <sub>100</sub>				74 <sup>4</sup> / <sub>100</sub>
Smoke Received From 40284 cords 1908.								
Smoke Received From 47522 cords 1907.								

REMARKS:  
1908. General Expense (Salaries & Other Expenses) charged 5.40% of General Office and 12% of Gladstone Office.  
1907. General Expense (Salaries & Other Expenses) charged 2 1/2% of General Office and 5% of Gladstone Office.

Made by J.P.N.  
Figured by J.P.N.  
Copied by J.P.N.  
Corrected by J.P.N.  
Examined by J.P.N.

*Production 1908 includes a shortage at furnace of 38199 pounds, which covers period from May 1<sup>st</sup> 1904 to 11-20-1908 and represents a shortage of 6 3/100 % of the total production during that period, or from a pound to a pound and one half per sack.*

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1908 AND 1907

Plant No. 2	POUNDS PRODUCED 1908, 1778982 ✓ Average per day 1908 5884 ✓ No. Days Operated 1908, 304				POUNDS PRODUCED 1907, 2007615 ✓ Average per day 1907, 5703 ✓ No. Days Operated 1907, 352 ✓			
	Labor	Supplies	Total	Cost Per Cwt.	Labor	Supplies	Total	Cost Per Cwt.
<b>GENERAL EXPENSE:</b>								
Analysis	358 04	40 57	398 61	022	234 52	26 42	260 94	013
Salaries & Other Expenses	649 01	277 06	926 07	053	640 72	264 37	905 09	045
Total	1007 05	317 63	1324 68 ✓	075 ✓	875 24	290 79	1166 03 ✓	058
<b>MAINTENANCE:</b>								
Buildings	27 55	23 11	50 66	003		18	18	000
Tanks	5 16	4 73	9 89	000		1 85	1 85	000
Dry Floor					62 76	359 75	422 51	021
Piping	37 01	13 20	50 21	003	18 53	3 40	21 93	001
Boilers	125 42	84 57	209 99	012	375 72	460 45	836 17	042
Pans	40 23		40 23	002	11 50	1 92	13 42	001
Cleaning Up						2 77	2 77	000
Total	235 37	125 61	360 98 ✓	020 ✓	468 51	830 32	1298 83 ✓	065
<b>OPERATING:</b>								
Skimming					17 31		17 31	001
Contractors	2282 95	13 48	2296 43	129 ✓	2391 25	4 10	2395 35	119
Firemen	780 46	06	780 52	044 ✓	921 40	09	921 49	046
Fuel, Tons <u>1908</u> <u>1907</u>	301 80	7386 84	7688 64	432 ✓	424 81	8943 16	9367 97	466
Electric Light	2 23	3 08	5 31	000 ✓	9 70	7 20	16 90	001
Boilers	71 14	10 69	81 83	005 ✓	80 29	25 92	106 21	005
Total	3438 58 ✓	7414 15 ✓	10852 73 ✓	610 ✓	3844 76	8980 47	12825 23 ✓	638
Cost of Production	4681 00	7857 39	12538 39 ✓	705 ✓	5188 51	10101 68	15290 09 ✓	761
<b>DEPRECIATION:</b>								
Improvement		968 40	968 40	054		1238 41	1238 41 ✓	062
Total Cost	4681 00	8825 79	13506 79 ✓	759 ✓	5188 51	11339 99	16528 50 ✓	823
<b>LOADING &amp; SWITCHING:</b>								
Sacks <u>1908</u> <u>1907</u>		1473 81	1473 81	083		1793 29	1793 29	089
Loading	122 15		122 15	006	138 93		138 93	007
Switching	10 67	6 79	17 46	001	11 19	7 01	18 20	001
Storing	181 07		181 07	010	3 60		3 60	001
Total	313 89	1480 60	1794 49 ✓	101 ✓	153 72	1800 30	1954 02 ✓	098
<b>TOTAL COST ON CARS</b>	4994 89 ✓	10306 39	15301 28 ✓	860 ✓	5342 23	13140 29	18482 52 ✓	921
Improvement Account Not Sunk Off			3934 95 ✓				4903 35 ✓	
Yields per cord of Wood				144 <sup>9</sup> ✓				134 <sup>0</sup>
Smoke Received From <u>1908</u> <u>1907</u>	12278	14997	Cords					

REMARKS:

General Expense (Salaries & Other Expenses) charged 2 1/2% of General Office and 5% of Gladstone Office for 1908 and 1907.

Made by SWW  
Figured by ✓  
Copied by ✓  
Corrected by SWW  
Examined by SWW



# THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE NO. 1.

COMPARATIVE  
WOOD COST SHEET.

For the years 1908 and 1907.

	Alger						MATHEWS						LIMESTONE								
	1908		1907		1908		1907		1908		1907		1908		1907		1908		1907		
	AMOUNT		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD
CORDS PRODUCED 1908	30540 <sup>3</sup> / <sub>8</sub>						25682						29226 <sup>5</sup> / <sub>8</sub>								
CORDS PRODUCED 1907	29600 <sup>3</sup> / <sub>4</sub>						32057 <sup>1</sup> / <sub>2</sub>						15892 <sup>3</sup> / <sub>4</sub>								
Chopping,	26907	08	34560	32	881	1 166	22461	57	36921	56	875	1 152	24837	28	18229	49	.850	1 147			
Stumpage,	3359	46	3256	08	110	110	2825	00	3526	29	110	110	3214	94	1748	15	110	110			
Foreman and Measuring,	588	83	792	83	019	027	734	77	1238	73	029	038	652	01	167	31	022	011			
Traveling Expense,	215	46	221	94	007	008	213	67	247	52	008	008	220	99	221	37	008	014			
Exchange,	23	66	28	45	001	001	33	77	45	15	001	001	20	53	19	60	001	001			
General Expense,	376	67	1031	66	012	035	410	65	928	30	016	029	353	07	965	99	012	061			
Fire Protection,	267	66			009		142	36			006		15	30			000				
Superintendent,	609	47	723	65	020	025	481	70	742	07	018	023	658	83	314	28	023	020			
Taxes,	579	65	765	36	019	026	2968	09	2686	28	116	084	506	65	406	40	017	025			
Spurs and Barns,			2960	09		100							954	70	388	21	033	024			
Keep of horses,	747	60			025		4389	57			054		794	60			027				
<b>Total Cost at Stump,</b>	<b>33675</b>	<b>54</b>	<b>44 340</b>	<b>38</b>	<b>1 103</b>	<b>1 498</b>	<b>31661</b>	<b>15</b>	<b>46335</b>	<b>90</b>	<b>1 233</b>	<b>1 445</b>	<b>32228</b>	<b>90</b>	<b>22460</b>	<b>80</b>	<b>1.103</b>	<b>1 413</b>			
Inventory Cost per Cord November 30th,					1.459	1 433					1.448	1 336					1.438	1 342			
Cost per Cord 12 Months, Year					1.498	1 433					1.445	1 384					1.413	1 374			
CORDS SHIPPED 1908	20612 <sup>1</sup> / <sub>4</sub> #						21021						14169								
CORDS SHIPPED 1907	18371 <sup>1</sup> / <sub>2</sub>						30746 <sup>1</sup> / <sub>2</sub>						13912 <sup>1</sup> / <sub>2</sub>								
Cost of Wood at Stump,	26626	54	27852	26	1 292	1 516	30438	41	40606	37	1 448	1 322	18308	23	19062	06	1.292	1 370			
Hauling and Loading,	18927	72	21418	07	918	1 166	21334	60	36249	58	1 015	1 179	13575	70	19082	41	958	1 371			
Freight,	7221	00	6552	00	350	357	5663	00	8526	00	269	277	4976	00	4896	00	351	352			
Switching in Furnace Yard,	654	83	557	61	035	034	644	42	920	04	033	033	378	65	388	52	036	034			
Piling in Furnace Yard.	597	65	661	09	344	321	421	16	829	78	457	304	1164	53	780	11	334	332			
<b>Total Cost at Furnace,</b>	<b>54027</b>	<b>74</b>	<b>57041</b>	<b>03</b>	<b>2 621</b>	<b>3 105</b>	<b>58501</b>	<b>59</b>	<b>87131</b>	<b>77</b>	<b>2 783</b>	<b>2 834</b>	<b>38403</b>	<b>11</b>	<b>44209</b>	<b>10</b>	<b>2.710</b>	<b>3 177</b>			
Average Cost per Cord from all sources on yard,					2.651	2 937															
Average Cost per Cord from all sources on trestle,					2.695	2 980															

REMARKS:  
 # Shipped to furnace 20612<sup>1</sup>/<sub>4</sub>  
 Burned at camp 25  
 Made by CSM  
 Figured by JHS  
 Copied by CSM  
 Checked by JHS  
 20637<sup>1</sup>/<sub>2</sub>

12

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE SUTHERLAND-INNES WOOD COST SHEETS

FOR 1908 AND 1907.

Cords Produced 1908  
Cords Produced 1907

59822 $\frac{1}{2}$   
48754 $\frac{5}{8}$

	AMOUNT				COST PER CORD	
	1908		1907		1908	1907
Chopping	51797	39	56539	78	866	1 160
Stumpage	6580	48	5363	01	110	110
Foreman & Measuring	1241	69	1011	83	021	021
Travelling Expense	437	36	467	78	007	010
Exchange	44	29	50	28	001	001
General Expense	734	80	2093	85	013	043
Fire Protection	282	96			005	
Superintendent	1268	93	1085	64	021	021
Taxes	1091	65	1219	91	018	025
Spurs & Barns	954	88	3626	10	016	075
Keep of Horses During Idle Period	1542	20			026	
<b>TOTAL COST AT STUMP</b>	<b>65976</b>	<b>63</b>	<b>71458</b>	<b>18</b>	<b>1 103</b>	<b>1 466</b>

PRODUCED AT

	1908	1907
Alger Camp	30540 $\frac{3}{8}$ ✓	29600 $\frac{3}{8}$ ✓
Limestone Camp	29226 $\frac{5}{8}$ ✓	15892 $\frac{3}{8}$ ✓
Eben	55 $\frac{1}{2}$ ✓	3261 $\frac{1}{2}$ ✓
	<u>59822<math>\frac{1}{2}</math></u> ✓	<u>48754<math>\frac{5}{8}</math></u> ✓

Made by Swc  
 Figured by ✓  
 Copied by SWC  
 Corrected by SWC  
 Examined by EDM

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE COST OF OPERATING EMPLOYEE'S CLUB

YEARS

	<u>1908</u>	<u>1907</u>
<b>GENERAL EXPENSE:-</b>		
Insurance	47.50	47.50
U.S. License	25.00	24.96
State License	500.00	500.00
Freight on Supplies	15.03	26.19
Printing		5.60
TOTAL	587.53 ✓	604.25
<b>MAINTENANCE:-</b>		
Equipment	29.36	60.03
Buildings	32.11	104.05
Sewer		5.10
TOTAL	61.47 ✓	169.18
<b>OPERATING:-</b>		
Caretaker	714.95	694.00
Wood	14.69	32.75
Electric Lights	1.35	5.89
Ice	12.00	
TOTAL	742.99 ✓	732.64
<b>STOCK USED:-</b>		
Beer	1714.72	1527.25
Liquor	523.35	424.61
Cigars	226.23	245.79
Cigarettes	103.36	102.06
Tobacco	29.30	37.53
Gum	2.50	
Pop		25.80
TOTAL	2599.46 ✓	2363.04
Depreciation of Equipment		210.55
TOTAL EXPENSE	3991.45	4079.66
TOTAL RECEIPTS #	3744.06	3370.58
NET LOSS	247.39 ✓	708.88 ✓

### STOCK ACCOUNT

	Inv. Nove. 30th.07.	Purchases during 1908	Total	Sales during 1908	Inv. Nove. 30th.08.
Beer	3.50	1737.35	1740.85	1714.72	26.13
Liquor	67.59	524.03	591.62	523.35	68.27
Cigars	42.38	240.73	283.11	226.23	56.88
Cigarettes	27.35	89.40	116.75	103.36	13.39
Tobacco	32.62	2.95	35.57	29.30	6.27
Gum		2.50	2.50	2.50	
TOTAL	173.44 ✓	2596.96 ✓	2770.40 ✓	2599.46 ✓	170.94 ✓

Made by                       
 Figured by                       
 Copied by                       
 Corrected by                       
 Examined by

# THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Cost of Loading and Hauling ALGER Wood, YEAR 1908

Loaded and Hauled this Month ..... Cords.  
Loaded and Hauled 12 Months 20612 1/4 Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	3936 98	8 05	3945 03			191
Swampers	3858 06	48 67	3906 73			190
Car Loaders	1508 26	11 58	1519 84			074
Foreman	700 00		700 00			034
TOTAL,	10003 30 ✓	68 30	10071 60 ✓			489 ✓
<b>Roads—</b>						
Making and Maintaining	1714 47	3 00	1717 47			083
TOTAL,	1714 47 ✓	3 00	1717 47 ✓			083 ✓
<b>Barn—</b>						
Hay	50 98	1406 48	1457 46 ✓			071
Oats	33 41	2813 08	2846 49 ✓			138
Feed and Bran		19 65	19 65 ✓			001
Shoeing and Shoes	307 10	17 53	324 63 ✓			016
Oil and Grease		29 20	29 20			001
Horse Medicine	5 40	11 74	17 14			001
Barn Boss	7 20		7 20 ✓			000
TOTAL,	404 09 ✓	4297 68	4701 77 ✓			228 ✓
<b>Repairs— WELL</b>						
Wagons and Drays	10 00		10 00			000
Sleighs	201 25	2 00	203 25			010
Harness	120 00	6 89	126 89			006
Buildings	14 45	47 10	61 55			003
	18 10	20 45	38 55			002
TOTAL,	369 20	71 04	440 24 ✓			021 ✓
COST TO LOAD,	12491 06	4440 02	16931 08 ✓			821 ✓
<b>Miscellaneous Repairs Spurs</b>						
Depreciation	505 19		505 19			025
Moving Equipment	1481 25		1481 25			072
	9 20	1 00	10 20			000
TOTAL,	514 39 ✓	1482 25 ✓	1996 64 ✓			097 ✓
Total Cost on Cars 1 Month						
Total Cost on Cars <b>12</b> Months	13005 45	5922 27	18927 72 ✓			918 ✓

**Remarks:**

*20612 1/4 shipped  
45 cords burned at stump  
20637 1/4*

Examined by	Made by
Corrected by	Figured by
Copied by	Corrected by
Figured by	Examined by

# THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Cost of Loading and Hauling LIMESTONE Wood, YEAR 1908

Loaded and Hauled this Month \_\_\_\_\_ Cords.  
 Loaded and Hauled 12 Months 14169 Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	2771 17	7 47	2778 64			196
Swampers	3562 43	15 05	3577 48			253
Car Loaders	1005 93		1005 93			071
Foreman	616 13	5 00	621 13			043
TOTAL,	7955 66 ✓	27 52 ✓	7983 18 ✓			563 ✓
<b>Roads—</b>						
Making and Maintaining	728 04	117 40	845 44			060
TOTAL,	728 04 ✓	117 40 ✓	845 44 ✓			060 ✓
<b>Barn—</b>						
Hay	10 55	912 08	922 63			065
Oats	7 00	1818 18	1825 18			130
Feed and Bran		6 00	6 00			000
Shoeing and Shoes	174 83	30 46	205 29 ✓			014
Oil and Grease		13 15	13 15 ✓			001
Horse Medicine		15 72	15 72 ✓			001
Barn Boss	153 78		153 78 ✓			011
TOTAL,	346 16 ✓	2795 59 ✓	3141 75 ✓			222 ✓
<b>Repairs— WELL</b>						
Wagons and Drays	74 45		74 45			005
Sleighs	90 00	6 94	96 94			007
Harness		52 77	52 77			004
Buildings		11 66	11 66			000
TOTAL,	202 70 ✓	71 37 ✓	274 07 ✓			019 ✓
COST TO LOAD,						
	9232 56 ✓	3011 88 ✓	12244 44 ✓			864 ✓
<b>Miscellaneous Repairs Spurs</b>						
Depreciation		770 25	770 25			055
Moving Equipment	7 03	25 00	32 03			002
Spurs & Barns		328 33	328 33			023
TOTAL,	196 25 ✓	1135 01 ✓	1331 26 ✓			094 ✓
Total Cost on Cars 1 Month						
Total Cost on Cars 12 Months						
	9428 81 ✓	4146 89 ✓	13575 70 ✓			958 X

Remarks:

Made by 412  
 Figured by \_\_\_\_\_  
 Copied by \_\_\_\_\_  
 Corrected by \_\_\_\_\_  
 Examined by 100



# THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Cost of Loading and Hauling MATHEWS Wood, YEAR 190 8

Loaded and Hauled this Month ..... Cords.  
 Loaded and Hauled 12 Months 21021 Cords.

	Labor	Supplies	Total	Total		Cost per Cord
				Months	1 Mo. 12 Mos.	
<b>Teaming—</b>						
Teamsters	4417 63	36 14	4453 77			212
Swampers	4957 14	54 33	5011 47			239
Car Loaders	1272 82	11 39	1284 21			061
Foreman	570 76		570 76			027
TOTAL,	11218 35 ✓	101 86 ✓	11320 21 ✓			539 ✓
<b>Roads—</b>						
Making and Maintaining	190 50	24 90	215 40			010
TOTAL,	190 50 ✓	24 90 ✓	215 40 ✓			010 ✓
<b>Barn—</b>						
Hay	16 40	1506 97	1523 37 ✓			073
Oats	9 95	2997 99	3007 94 ✓			143
Feed and Bran		7 65	7 65 ✓			000
Shoeing and Shoes	281 36	37 40	318 76 ✓			015
Oil and Grease		27 43	27 43			001
Horse Medicine		42 49	42 49			002
Barn Boss	443 00		443 00			021
TOTAL,	750 71 ✓	4619 93 ✓	5370 64 ✓			255 ✓
<b>Repairs—</b>						
Wagons and Drays	161 37	41 47	202 84			010
Sleighs	120 00	26 23	146 23			007
Harness		43 88	43 88			002
Buildings		22 73	22 73			001
TOTAL,	281 37 ✓	134 31 ✓	415 68 ✓			020 ✓
COST TO LOAD,	12440 93 ✓	4881 00 ✓	17321 93 ✓			824 ✓
<b>Miscellaneous—REPAIRS SPURS</b>						
Depreciation		1632 24	1632 24 ✓			078
Moving Equipment		1891 92	1891 92			090
<b>SPURS &amp; BARNS</b>						
TOTAL,	407 81 ✓	3604 86 ✓	4012 67 ✓			191 ✓
Total Cost on Cars 1 Month						
Total Cost on Cars <u>12</u> Months	12848 74 ✓	8485 86 ✓	21334 60 ✓			1 015 ✓

Remarks:

Made by \_\_\_\_\_  
 Figured by \_\_\_\_\_  
 Copied by \_\_\_\_\_  
 Corrected by \_\_\_\_\_  
 Examined by \_\_\_\_\_

COST SHEET FOR RENTED HOUSES, BARNs AND

Gladstone, Michigan LOCATION.

Month July Year, 1908

Name of Occupant	House No.	MAINTENANCE										EARNINGS		
		Interior Decoration	Carpenter Work	Outside Painting	Heating Plant	Plumbing	Out Buildings	Walks, Yards and Fences	General Items	Total for Month	Total for Year	For the Month	For the Year	
Mrs. A. N. Sinclair	1						1 33	3 67		3 31		8 31		72 00
Earnest Noseworthy	2		3 40				1 33	5 75				11 23		69 00
Geo. Bushman	3						1 33	5 75				7 73		72 00
Frank Coppins	4						6 43	5 75				13 03		72 00
James Barry	5						1 33	5 75				7 73		72 00
Louis Switzer	6		60				6 43	5 75				13 43		72 00
Fred White	7						1 33	5 75				7 73		72 00
John Flynn	8		9 92				16 71	5 75				33 03		72 00
John Malloy	9						1 33	5 75				7 73		72 00
Louis Devet	10		15				1 33	5 75				7 73		72 00
John Holm	11		40				1 33	5 75		1 00		8 48		72 00
Joe Devet	12						1 33	5 75		85		7 93		72 00
Hans Olsen	13						1 33	5 75		65		7 73		72 00
John Pillotte	14						1 33	5 75		1 00		8 08		72 00
Andrew Anderson	15						1 33	5 75		1 25		8 33		72 00
Louis Stock	16						1 33	11 60		80		13 73		72 00
Richard Barry	17						1 33	5 75		1 00		8 08		72 00
Emil Pillotte	18						1 33	5 74		1 50		8 57		72 00
Wm. Pease	19		9 20				10 45	5 74		1 10		26 49		72 00
Wilfred Martin	20						1 93	5 73		95		8 61		72 00
Vacant, 10/31/08	21	50 00	26 29				1 33	5 99		50 37		145 80		66 00
Wm. H. Miller	22						1 33	5 73		85		7 91		72 00
Gust Wickland	23						1 33	5 73		65		7 71		72 00
John Wargo	24						9 15	5 73		80		15 68		72 00
Joe Mattie	25						1 33	5 73		95		8 01		72 00
Andrew Rantala	26						1 33	5 73		1 80		8 86		72 00
Emil Strom	27						6 53	5 73		1 10		13 36		72 00
Wm. Griffith	28						1 33	5 73		1 55		3 61		72 00
James Ryerse	29						11 75	5 73		80		18 28		72 00
Chas. Vestine	30						6 53	5 73		1 80		14 06		72 00
Antone Jonesvec	31						1 33	5 73		95		8 01		72 00
Emil Enky	32						3 93	5 73		1 90		11 56		66 80
Henry Rajala	33						6 53	5 73		1 55		13 81		67 00
Joe Karlovish	34						3 93	5 73		95		10 61		72 00
John Jaaska	35						4 98	5 73		1 15		11 86		72 00
Isaac Matson	36						3 93	5 71		1 25		10 89		72 00
John Benard	37						3 93	5 71		1 35		10 99		72 00
Emil Stock	38						6 53	5 71		1 70		13 94		64 20
Albert Erickson	39						6 53	5 71		65		12 89		72 00
Louis Pullion	40						3 93	5 71		1 30		10 94		70 20
Chas. Youmans	41						3 93	5 71		65		10 29		72 00
Emil Landine	42		3 69				1 33	5 71		1 80		12 53		67 20
Chas. G. Anderson	43						1 33	5 71		1 35		8 39		60 00
Matt Maky	44						1 33	5 71		1 10		8 14		72 00
John Hill	45						1 33	5 70		1 85		8 88		68 00
Aug. Karnitz	46						1 33	5 70		1 25		8 28		72 00
John Wasco	47						1 33	5 70		95		7 98		72 00
Con Dementer	48						1 33	5 70		65		7 68		64 00
William Granberg	49						1 33	5 70		65		7 68		72 00
Matt Stervonka	50						1 33	5 70		1 25		8 28		72 00
C. D. Mason, Ass't. Adtr.		71 91	3 13				29 76			4 65		109 45		120 00
G. J. Slining, C. Engineer		75 71	31 23	9 82	2 00	154 42			63	26 79		300 60		120 00
James Hannigan, Founder												23 02		96 00
W. H. Fuller, Barn Boss												25		72 00
Total		197 62	88 01	9 82	2 00	196 00	190 97	291 16	136 17			1111 75		3950 40
GENERAL EXPENSE:														
Stationery and Printing,														
Insurance,												132 63		
Taxes,												121 85		
Advertising,														
Legal,														
Traveling,														
Total,												254 48		
Depreciation,												2579 51		
Total,												3945 74		4 66
Net Earnings,														101 43
Number of Houses in good repair,		54										0 00		
"    "    "    "    poor    "		000										3950 40		
"    "    "    Unrentable,		00										3950 40		
Total Houses,		54										3920 40		
Total Number of Unrented Houses,		00										30 00		
Total Rent Uncollected 1st of Year												0 00		
Total Rent Earnings—Current Year												3950 40		
Total,												3950 40		
Total Rent Collected—Current Year												3920 40		
Total Rent Uncollected End of Year												30 00		
Construction Acc't not Charged Off,												3436 94		
Insurance Valuation,												22000 00		

cash and 40.62  
 42.67  
 16.24  
 20.33  
 721.85

REMARKS:





**THE CLEVELAND-CLIFFS IRON CO.**  
FURNACE DEPARTMENT.

Comparative Labor Statement for Years, 1908, 1907.

SHEET No. 1.

	No. Men	No. Men	No. Days	Earnings	RATE PER DAY		No. Men	No. Men	No. Days	Earnings	RATE PER DAY		
					1908	1907					1908	1907	
<b>FURNACE.</b>	<b>1907</b>	<b>1908</b>					<b>1907</b>	<b>1908</b>					
Engineers,	2	2	732	1982 60	2 70	2 75	Barn Boys,	1	1	366	600 00	1 64	1 64
Firemen,	2	2	741	1415 95	1 91	1 91	Teamsters and Helpers,	2	2	614 8	1206 28	1 96	2 08
Founders,	2	2	671	2420 00	3 61	3 54	Blacksmith,	1	1	306 2	875 11	2 86	2 90
Keepers,	2	2	605 6	1428 52	2 35	2 40	Blacksmith Helpers,	1	1	318 6	556 25	1 75	1 75
Helpers,	8	8	2395 1	4843 79	2 02	2 06	Machinists,	2	2	655 2	2154 13	3 29	3 10
Top Fillers,	4	4	1198 3	2337 72	1 95	2 00	Machinist Helpers,	7	12	3467 7	6488 48	1 87	1 97
Bottom Fillers,	14	14	4334	8110 85	1 87	1 91	Carpenters,	9	5	1298 4	3175 60	2 44	2 34
Cinder Snappers,	4	4	1254 9	2398 50	1 91	1 92	Locomotive Engineers,	1	1	380 4	1086 43	2 85	2 90
Iron Grader,	1	1	360	705 10	1 96	1 91	Brakemen,	1	1	361 3	998 33	2 75	2 80
Iron Handlers,	7	6	1898 4	4523 47	2 38	2 43	Electrician,						
Coal Forkers,	12	12	3591 8	7033 42	1 95	2 00	Yard Foreman,	1	1	366	1200 00	3 28	3 16
Coal Car Pushers,	2	2	588 4	1093 79	1 85	1 90	Laborers,	23	31	9934 8	18178 65	1 83	1 79
Sand Man,	2	2	477 2	888 59	1 86	1 94	Laboratory Boys,	1	1	366	960 00	2 62	2 63
							Steward,	1	1	366	712 00	1 95	1 90
<b>Total</b>	<b>62</b>	<b>61</b>	<b>18842 7</b>	<b>39177 30</b>	<b>2 08</b>	<b>2 11</b>	Masons,	1	1	119 9	459 37	3 84	4 18
<b>CHEMICAL PLANT No. 1.</b>							Mason Helpers,	1	1	67 1	130 72	1 94	
Stillmen,	7	7	2097 8	4251 17	2 03	2 04	Watchmen,	1	1	362	780 00	2 15	2 09
Engineers,	4	4	1255 5	2739 75	2 18	2 22	<b>Total</b>	<b>53</b>	<b>63</b>	<b>19350 4</b>	<b>39561 85</b>	<b>2 05</b>	<b>2 09</b>
Firemen,	1	1	403 9	771 38	1 90	1 96	<b>KILNS.</b>						
Condensermen,	2	2	674 2	1132 80	1 68	1 77	Colliers,	5	5	1533 5	3207 40	2 09	2 13
<b>Total</b>	<b>14</b>	<b>14</b>	<b>4431 4</b>	<b>8895 10</b>	<b>2 01</b>	<b>2 05</b>	Whitewashers,	2	2	618	1207 17	1 95	2 00
<b>CHEMICAL PLANT No. 2.</b>							Packers,	18	17	3919 6	8869 36	2 26	2 11
Stillmen,	4	3	1069	2205 11	2 06	2 05	Packer Foreman,	1	1	305	700 00	2 30	2 25
Firemen,	3	3	825 1	1575 53	1 90	1 93	Kiln Cleaner,	1	1	280	682 40	2 26	2 08
<b>Total</b>	<b>7</b>	<b>6</b>	<b>1894 1</b>	<b>3780 64</b>	<b>2 00</b>	<b>2 01</b>	Breezeman,	2	2	584 2	1048 09	1 79	1 82
<b>ACETATE PLANT No. 1.</b>							Wood Handlers,	3	2	257 8	567 08	2 20	2 20
Contractors,	5	5	1564	4190 05	2 68	2 55	<b>Total</b>	<b>32</b>	<b>30</b>	<b>7498 1</b>	<b>16232 10</b>	<b>2 16</b>	<b>2 10</b>
Firemen,	2	3	809 1	1542 62	1 90	1 95	<b>RETORTS.</b>						
<b>Total</b>	<b>7</b>	<b>8</b>	<b>2373 1</b>	<b>5732 67</b>	<b>2 41</b>	<b>2 41</b>	Foreman,	1	1	305	750 00	2 46	2 46
<b>ACETATE PLANT No. 2.</b>							Fireman,	4	4	1195 5	2401 80	2 00	2 05
Contractors,	3	3	882	2280 37	2 59	2 66	Winchman,	1	1	296 2	565 48	1 90	1 95
Firemen,	1	1	409 9	779 17	1 90	1 95	Wood Loaders,	6	6	1791 7	3403 43	1 90	1 95
<b>Total</b>	<b>4</b>	<b>4</b>	<b>1291 9</b>	<b>3059 54</b>	<b>2 37</b>	<b>2 42</b>	Wood Splitter,	4	4	1120 9	2163 95	1 90	1 95
							Fuelman,	1	1	301	589 65	1 95	2 00
							<b>Total</b>	<b>17</b>	<b>17</b>	<b>5010 2</b>	<b>9874 31</b>	<b>1 97</b>	<b>2 00</b>
							<b>OFFICE PAY ROLL.</b>	<b>9</b>	<b>7</b>	<b>2578 5</b>	<b>15243 73</b>	<b>5 91</b>	<b>4 70</b>
							<b>Total Sheet No.1</b>	<b>205</b>	<b>210</b>	<b>63270 5</b>	<b>141557 24</b>	<b>2 24</b>	<b>2 22</b>

18

CHARGES TO THE  
COST OF OPERATING  
SOFT WOOD LOG JOB  
AT MATHEWS  
YEAR, 1908.

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COST OF OPERATING SOFT WOOD LOG JOB AT MATHEWS, YEAR, 1908.

	Quan- tity	12 Months	Inv. Dec 31 1907	Total
<u>PIECE WORK:-</u>				
Poles	1065	172.79	87.13	259.92
Posts	3638	121.79	52.09	173.88
Ties	24451	2226.31	116.51	2342.82
Pulp	9917	187.42	255.73	187.42
Tie Cuts	22	.88		.88
Piling	90	.48		.48
Bark (Cords )	883 1/2	1584.49		1584.49
Logs	185925	905.08		905.08

### MISCELLANEOUS:-

Skidding ties		707.94		707.94
Swamping ties		100.00		100.00
Teaming bark		343.34		343.34
Swamping bark		431.84		431.84
Measuring bark		9.35		9.35
Loading bark		12.00		12.00
Skidding logs		37.27		37.27
Swamping logs		1310.83		1310.83
Loading logs		58.37		58.37
Sawing logs		297.45		297.45
Teaming logs		1240.38		1240.38
Scaling logs		5.60		5.60

### GENERAL:-

Foreman		422.00		422.00
Building & Rep. Roads		283.20		283.20
Blacksmith		108.73		108.73
Barn Boss		117.00		117.00
Depreciation of Equipment		257.01		257.01
Stationery & Printing		8.50		8.50
Horse Feed		643.99		643.99
Repairs Spurs		95.48		95.48
Horse Medicine		5.73		5.73
Depreciation of Improvement		235.96		235.96

	Total Charges		12186.94
Less cost of bark sold		3104.50	
Less cost of ties used		11.00	3115.50

Add Inventory Mathews-Thompson Job			9071.44
" " 1907-08 Delosh Job			155.03
			243.38

Inventory, Stock of Forest Products	9469.85
-------------------------------------	---------

Made by                       
 Figured by                       
 Copied by                       
 Corrected by                       
 Examined by                     

Mathews-Thompson 146.25  
 " Delosh 109.48  
 255.73

Parrons Williams tin - 105.45 included above in  
 current years operation.

79

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

*Mathews*

1907-08, DELOSH JOB:-

YEAR, 1908

<u>SOLD &amp; USED:-</u>	<u>Quantity</u>	<u>Price</u>	<u>Amount</u>
Elm & Basswood	1614601	4.50	7265.71
Hemlock	1500	8.00	12.00
Birch	22145	4.50	99.65
"	687	10.50	7.21
Maple	176	4.50	.79
Spruce	137	12.00	1.65
Balsam	117	8.00	.94
Cedar	6817	9.00	61.34
No. 1 Hemlock Ties	390	.17	66.30
<b>Total</b>			<b>7515.59</b>

SETTLEMENT PER CONTRACT:

Elm & Basswood	1614601	4.00	6458.41
Hemlock	1500	4.00	6.00
Birch	22832	4.00	91.33
Maple	176	4.00	.70
Spruce	137	4.00	.55
Balsam	117	4.00	.47
Cedar	6817	4.00	27.27
No. 1 Hemlock Ties	390	.17	66.30
<b>Total</b>			<b>6651.03</b>

Profit on Operations 864.56 ✓

INVENTORY:

Charged to Stock of Forest Products.

Hemlock	35608	4.00	142.44
A s h	1551	4.00	6.20
No. 1 Hemlock Ties	4	.17	.68
No. 1 Hemlock Ties	275	.18	49.50
No. 1 Cedar Ties	96	.20	19.20
No. 2 Hemlock Ties	187	.13	24.31
No. 2 Cedar Ties	7	.15	1.05
<b>Total</b>			<b>243.38</b> ✓

Made by *Sma*  
 Figured by \_\_\_\_\_  
 Copied by *g. l. w.*  
 Corrected by *g. l. w.*  
 Examined by *com*



30

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STATEMENT OF SHOP LABOR 1908

### MACHINE SHOP

Month	Pay Roll	Supplies	Total Debit	Total Hours	Cost Per Hour
Dec.	539.89	27.92	567.81	2045	.2776
Jan.	611.77	29.89	641.66	2422	.2649
Feb.	549.45	80.20	629.65	2089	.3013
March	637.26	35.24	672.50	2580	.2606
April	621.45	19.28	640.73	2521	.2541
May	642.81	49.91	692.72	2603	.2661
June	650.33	26.93	677.28	2725	.2485
July	674.07	36.08	710.15	3055	.2324
Aug.	686.29	71.43	757.72	3071	.2467
Sept.	633.09	22.77	655.86	2794	.2347
Oct.	1121.27	45.39	1166.66	5440	.2145
Nov.	1274.91	72.20	1347.11	6127	.2198
<b>Total</b>	<b>8642.61</b>	<b>517.24</b>	<b>9159.85</b>	<b>37472</b>	<b>.2444</b>
<i>1907</i>	<i>6590.38</i>	<i>523.42</i>	<i>7159.80</i>	<i>25219</i>	<i>.2823</i>

### BLACKSMITH SHOP

Dec.	117.45	4.30	121.75	496	.2454
Jan.	121.42	6.11	127.53	535	.2384
Feb.	98.15	5.38	103.53	439	.2358
Mar.	118.30	5.45	123.75	520	.2380
Apr.	115.45	9.85	125.30	510	.2456
May	112.03	5.32	117.35	498	.2357
June	114.60	4.62	119.22	507	.2351
July	119.50	5.89	125.39	527	.2379
Aug.	117.51	9.14	126.65	518	.2445
Sept.	114.99	18.00	132.99	510	.2607
Oct.	140.98	14.36	155.34	597	.2602
Nov.	140.98	13.20	159.18	594	.2680
<b>Total</b>	<b>1431.36</b>	<b>106.62</b>	<b>1537.98</b>	<b>6251</b>	<b>.2460</b>
<i>1907</i>	<i>1475.10</i>	<i>110.00</i>	<i>1585.10</i>	<i>6354</i>	<i>.2494</i>

### CARPENTER SHOP

Dec.	322.60		322.60	1240	.2602
Jan.	265.20		265.20	1040	.2550
Feb.	257.50		257.50	1000	.2575
March	267.80		267.80	1040	.2575
April	264.30		264.30	1025	.2578
May	135.23		135.23	552	.2450
June	169.70		169.70	667	.2506
July	225.25		225.25	899	.2505
Aug.	253.50		253.50	1040	.2437
Sept.	242.15		242.15	995	.2434
Oct.	354.60		354.60	1600	.2216
Nov.	417.77		417.77	1876	.2226
<b>Total</b>	<b>3175.60</b>		<b>3175.60</b>	<b>12974</b>	<b>.2447</b>
<i>1907</i>	<i>6121.58</i>		<i>6121.58</i>	<i>25965</i>	<i>.2357</i>

Made by COU  
 Figured by "  
 Copied by COU  
 Corrected by COU  
 Examined by COU

31

1908  
--  
1907  
CONSERVATIVE  
STABLE EXPENSE

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE STABLE EXPENSE

	Total Cost		Cost per horse per day	
	1908	1907	1908	1907
Hay	785.00	744.78	.142	.146
Oats	1919.60	1834.22	.347	.359
Feed	92.46	11.75	.017	.002
Straw	54.22	58.84	.010	.011
Medicine	94.05	84.79	.017	.017
Shoeing	248.16	197.87	.045	.039
Repairs wagons, carts & sleighs	250.67	258.01	.045	.050
Repairs Harness	158.72	181.92	.029	.036
Combs, brushes, Oils & Grease	18.39	16.37	.003	.003
	3621.27	3388.55 ✓	.655	.663 ✓

*no labor<sup>2</sup> wly*

## DISTRIBUTION

	1908		1907	
	No. Horses	No. Days	No. Horses	No. Days
Horses on cinder carts <i>handling cinder</i>	3	1095	3	1095
" " sand and clay	1	365	1	365
" " braize cart	1	365	1	365
" " retort fuel	1	365	1	365
" " transfer car	1	365	1	365
" " general work	2	730	2	730
" " office rig	2	730	2	730
" " superintendent's use	1	365	1	365
" " chemical fuel	2	730	2	730
" " hauling sand	2	420	0	
Total		5530		5110 ✓

Made by                       
 Figured by                       
 Copied by                       
 Corrected by                       
 Examined by

27 1/2

THE CLEVELAND-CLIFFS & PIONEER IRON COMPANIES  
Furnace Department

COMPARATIVE STATEMENT OF LABORATORY EXPENSES.

		<u>1908</u>	<u>1907</u>
<u>SALARIES:</u>			
E. J. Hudson, Chemist, Marquette	(1)	3000.00	2953.32
E. F. Buchanan, Ass't. Chemist Marquette	(2)	1800.00	1155.00
A. S. Kettleberger " " "	(3)	2024.96	822.20
J. H. Matthes, Con. Chemist, Chicago.	(4)	1312.47	
F. D. Tower, Chemist at Carp furnace	(5)		1000.00
Richard Barry, Laboratory Boy, Gladstone		960.00	960.00
Elmer Frei " " Marquette		691.00	540.00
Chas. Carr " " "	(6)	32.30	
Jas. Trombley " " Carp	(7)		408.96
Robert Wright " " "	(8)		89.80
	<b>Total</b>	<b>9820.73</b>	<b>7929.28</b>
<u>SHOP LABOR:</u>			
Repairs to apparatus		29.34	88.89
<u>SUPPLIES:</u>			
Chemicals, Apparatus etc.		1181.34	1567.15
<u>Traveling:</u>			
E. J. Hudson's traveling expenses		478.25	320.50
	<b>Grand Total</b>	<b>11509.66</b>	<b>9905.82</b>
<u>DISTRIBUTION:</u>			
No. 1 Pig Iron Cost Sheet ( C.C.I. )			
Analysis & Testing		1993.36	949.23
No. 2 Furnace Pig Iron Cost Sheet			
Analysis & Testing		2186.53	2732.66
Carp Pig Iron Cost Sheet			
Analysis & Testing		283.85	1690.96
Alcohol Plant No. 1 Cost Sheet			
Analysis & Testing		1341.65	1052.02
Alcohol Plant No. 2 Cost Sheet			
Analysis & Testing		957.88	1051.96
Pioneer Alcohol Cost Sheet			
Analysis & Testing		2268.66	1193.49
Pioneer Acetate Cost Sheet			
Analysis & Testing		777.68	368.16
No. 1 Acetate Cost Sheet ( C.C.I. )			
Analysis & Testing		781.28	260.95
No. 2 Acetate Cost Sheet "			
Analysis & Testing		398.61	260.94
Formaldehyde Cost Sheet			
Analysis & Testing		388.13	345.45
Acetone Cost Sheet			
Analysis & Testing		132.03	
	<b>Total as above</b>	<b>11509.66</b>	<b>9905.82</b>



272  
RECEIVED FROM CONVALESCENT  
LABORATORY

NOTE:

- (1) - Salary increased in February, 1907 from \$2700.00 to \$3000.00
- (2) - Commenced in April, 1907
- (3) - Commenced in July, 1907
- (4) - Commenced in March, 1908 salary \$1750.00
- (5) - Salary \$1500.00; Left July 31st., 1907
- (6) - Worked during November, 1908 only
- (7) - Left September 30th., 1907
- (8) - Commenced October 1st., 1907.

Made by com  
Figured by \_\_\_\_\_  
Copied by com  
Corrected by \_\_\_\_\_  
Examined by com

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE STATEMENT OF GENERAL EXPENSE

	YEAR	
	1908	1907
Launch	11.30	1.00
Manager's Man	354.00	323.41
Salaries	10620.00	10636.75
Petty Office	50.46	12.05
Stationery & Printing	435.31	499.96
Telephone & Telegrams	659.68	684.75
Stable	1205.48	891.29
Exchange	124.76	143.00
Freight & Express	66.97	38.99
Traveling	826.12	795.00
Postage	221.42	118.81
Livery	231.72	128.55
Watchman	797.65	795.15
Inventory	42.95	64.89
Legal	556.45	531.36
Janitor	132.95	132.00
Papers & Periodicals	12.50	8.00
Cost Running Club	271.73	498.53
Cost Running Club	24.34	0.00
Engineering	54.04	244.91
Entertaining	17.11	12.70
Political	26.25	31.15
Dwellings Not Rented	342.00	342.00
Welfare	45.06	00.00
Landscape Gardener	0.00	11.25
Garden Prizes	0.00	53.00
Accident	0.00	1.00
Donations	0.00	45.00
<b>Total</b>	<b>17081.57</b>	<b>17044.50</b>

### CHARGED DIRECT:-

Freight & Express	10.26	0.00
Stationery & Printing	19.40	0.00
Accident	218.90	450.00
Traveling	405.94	313.30
Dwellings Not Rented	96.00	96.00
Legal	103.65	0.00
Stable	7.58	0.00
Telephone & Telegrams	14.37	0.00
Cost Running Club	0.00	210.55

### Grand Total General Expense

17957.67 18114.35

### DISTRIBUTION:-

Furnace General Expense		
Pig Iron Cost Sheet	10208.42	11058.65
Chemical General Expense No. 1		
Alcohol Cost Sheet No. 1	3010.69	2912.11
Chemical General Expense No. 2		
Alcohol Cost Sheet No. 2	1659.43	2050.45
Acetate General Expense No. 1		
Acetate Cost Sheet No. 1	2153.06	1188.05
Acetate General Expense No. 2		
Acetate Cost Sheet No. 2	926.07	905.09

### Total as above

17957.67 18114.35

Made by ADW  
 Figured by ADW  
 Copied by ADW  
 Checked by ADW  
 Examined by ADW



27

COMPARATIVE STATEMENT OF LEGAL EXPENSES  
1907 -- 1908

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE STATEMENT OF LEGAL EXPENSES.

	<u>1908</u>	<u>1907</u>
Salary of Solicitor, W. P. Belden	393.71	393.63
Expenses of Solicitor,	65.24	70.20
Salary of Special Attorney,	67.50	67.53
Paid G. R. Empson, Gladstone, (Tester Case)	<u>30.00</u>	<u>          </u>
Total as charged General Office	556.45	531.36
Expenses of W. P. Belden in Hutchinson case, Voucher # 1028	54.15	
Services and expenses of G. R. Empson in Harry Little Claim, Voucher #12009	<u>49.50</u>	<u>          </u>
Total charged Chem. Gen'l Exp. #1.	<u>103.65</u>	
Grand Total,	660.10 ✓	531.36 ✓

Made by DOM  
 Figured by ✓  
 Copied by ✓  
 Corrected by ✓  
 Examined by DOM

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

STATEMENT OF FIRE INSURANCE IN FORCE NOVEMBER 30th., 1908

Policy Number	COMPANY	AGENT	PROPERTY INSURED	LOCATION	TERM	EXPIRATION	Amount of Policy	RATE	PREMIUM Paid	Aer'd.	Un-Earned	LOSSES
4618440	N. British & Merc'tle Co.	Smith & Empson	5 Dbl. Ten'mt Ho. 41 to 50 Inc.	Furnace	3 Yrs.	Dec. 1st, 1908	4000.	1.95-3 Yrs.	78.00	78.00	0.00	None
129	Hanover	" "	Club Ho. & Contents	"	"	" " "	1500.	4.75-3 Yrs.	71.25	71.25	0.00	"
4618439	N. British & Merc'tle Co.	" "	" " "	"	"	" " "	1500.	4.75-3 yrs.	71.25	71.25	0.00	"
6914	H o m e	P. White & Co.	31 Charcoal Cars	"	1 "	Jan. 30th, 1909	3100	2.00-1 Yr.	62.00	62.00	0.00	"
1724667	American Central	G.R. Empson	Stock of Supplies	"	1 "	Dec. 31st, 1908	2500.	1.35-1 Yr.	33.75	31.88	1.87	"
800	Detroit Fire & Marine	G.R. Empson	" "	"	1 "	Dec. 31st, 1908	2500.	1.35-1 yr.	33.75	31.87	1.88	"
		P. White & Co.	20 Dbl. Ten't. Ho. 1 to 40 inc.	"	3 Yrs.	Dec. 1st, 1909	14000.	2.00-3 Yrs.	280.00	186.67	93.33	✓
			Founder's House	"	3 Yrs.	Dec. 1st, 1909	1500.	1.00-3 Yrs.	15.00	10.00	5.00	✓
			B a r n	"	3 Yrs.	Dec. 1st, 1909	1000.	3.00-3 Yrs.	30.00	20.00	10.00	✓
			Barn Boss' House	Gladstone	3 Yrs.	Dec. 1st, 1909	500.	1.00-3 Yrs.	5.00	3.34	1.66	✓
			Chief Engineer's House	"	3 Yrs.	Dec. 1st, 1909	1000.	1.00-3 Yrs.	10.00	6.67	3.33	✓
			Ass't. Auditor's House	"	3 Yrs.	Dec. 1st, 1909	1000.	1.00-3 Yrs.	10.00	6.66	3.34	✓
			Office & Laboratory Bldg.	Furnace	3 Yrs.	Dec. 1st, 1908	2000.	4.38-3 Yrs.	87.60	87.60	0.00	"
			Office & Lbty. & Contents	"	3 Yrs.	Dec. 1st, 1908	700.	4.38-3 Yrs.	30.66	30.66	0.00	"
			Acetate Storage House	"	3 Yrs.	Dec. 1st, 1908	175.	3.50-3 Yrs.	6.13	6.13	0.00	"
			Chemical Supplies	"	3 Yrs.	Dec. 1st, 1908	250.	3.50-3 Yrs.	8.75	8.75	0.00	"
			Car Shop	"	3 Yrs.	Dec. 1st, 1908	200.	7.75-3 Yrs.	15.50	15.50	0.00	"
65	Manhattan Ins. Co.	P. White & Co.	Launch Nepenthe	Marquette	1 Yr.	Nov. 19th, 1909	1000.	2.50-1 Yr.	25.00	1.00	24.00	✓
							38425. ✓		873.64	729.23	144.41	

\* These risks carried by the several companies as shown in statement below

List of Companies participating in the above risks.

4620516	N. British & Merc'tle Co.	2375.00
21004	Hartford	2375.00
91704	Phoenix	2375.00
2725269	Atlas	2375.00
527473	National	2375.00
1415982	American Central	2375.00
1028	Hanover	2375.00
1883	Springfield	2375.00
1415941	American Central	1662.50
1817	Springfield	1662.50

Made by OBW  
 Figured by \_\_\_\_\_  
 Copied by OBW  
 Corrected by OBW  
 Examined by OBW



23 1/2

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STATEMENT OF UNINSURED PROPERTY

Nov. 30, 1908.

### AT GLADSTONE

<u>Name of Property,</u>	<u>Value</u>	<u>Remarks.</u>
Furnace Stack and Stoves	12500.00	Incombustible
Stock House	7000.00	"
Cast House and Boiler House	28000.00	"
Hoist House and Contents	3000.00	"
Engine and Pump House and Contents	65000.00	"
Blacksmith Shop and Contents	2000.00	Lined inside with brick
Supply House (Contents Insured)	1500.00	A Composite Structure
Machine Shop and Contents	10000.00	Incombustible
Locomotive House	1500.00	"
Oil House	800.00	"
Retorts and Building	60000.00	"
Ice House	400.00	A Possible Risk
Locomotive Coal Shed	250.00	A wooden Building
Lime Shed	250.00	" "
Barreling House (Contents Insured)	1200.00	" "
Tool Shanty	150.00	" "
No. 1 Acetate Building and Contents	9700.00	A Composite structure
Track Scale House	150.00	A wooden building
Two Pig Iron Scale Houses	150.00	Small wooden buildings
Ore Crusher Plant	6000.00	A wooden building
Primary Still House Alcohol Plant #1	25000.00	Incombustible
Refining Still House " " "	70000.00	"
Club House Ice House	250.00	A wooden building
Ore Trestle	15000.00	Wooden structure
Wood Trestle	15000.00	" "
Retort Wood Trestle	1500.00	" "
Boat House (at Gladstone)	10.00	" "

### AT MATHEWS CAMP

One Boarding House	16 x 36	200.00	A wooden building
" " "	16 x 26	200.00	" "
" " "	14 x 24	100.00	" "
" " "	18 x 32	200.00	" "
One Barn	48 x 90	500.00	" "
One Office	40 x 20	200.00	" "
One Blacksmith Shop	14 x 24	50.00	" "
One Barn Boss House	16 x 24	100.00	" "
One Foreman's House	16 x 24	100.00	" "
One Austrina Boarding House	16 x 38	200.00	" "

### AT LIMESTONE CAMP

One Barn	40 x 56	400.00	A Wooden building
One Blacksmith Shop	14 x 22	50.00	" "
One Office	16 x 26	100.00	" "
Three Boarding Houses	18 x 36		
With Additions	12 x 20	600.00	" "
One Boarding House	20 x 36	200.00	" "
One Office	22 x 26	100.00	" "
One Blacksmith Shop	16 x 32	100.00	" "
One Barn	30 x 80	400.00	" "
One Store	18 x 36	200.00	" "

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STATEMENT OF UNINSURED PROPERTY, CONCLUDED

### AT ALGER CAMP

One Office	14 x 20	200.00	A wooden building
One Foreman's House	24 x 26	250.00	" "
One Store	22 x 26	250.00	" "
One Storekeeper's House	22 x 26	250.00	" "
Two Boarding Houses	22 x 40	550.00	Wooden buildings
One " "	20 x 36	150.00	A wooden building
One Barn	36 x 99	500.00	" "
One Blacksmith Shop	14 x 26	70.00	" "
Addition	10 x 14	20.00	" "

Made by awm  
Figured by ✓  
Copied by ✓  
Corrected by ✓  
Examined by awm



THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF TAXES FOR 1907 AND 1908

	1908			1907			1908			1907		
	Acres	Valuation	Taxes	Valuation	Taxes	Acres	Valuation	Taxes	Valuation	Taxes		
<b>CITY OF GLADSTONE:</b>												
City Lots & Gov't. Lot No. 3		6985	310.05	7055	276.82		9985	431.90	10055	389.30		
Founder's House		400	16.24	400	14.09		245100	5092.67	245100	4926.22		
Assistant Auditor's House		1000	40.62	1000	37.49		35440	1485.32	36080	1280.93		
Chief Engineer's House		1100	44.67	1100	41.34		21420	973.50	15720	744.61		
Barn Boss House		500	20.22	500	18.76		19650	993.75	29500	1323.90		
Total		9985	431.90	10055	389.30		2000	22.43	2000	25.06		
<b>BRAMPTON TOWNSHIP:</b>												
Furnace Plant, Real	39	180000	3740.17	180000	3616.00		3080	120.68	3080	100.22		
Furnace Plant, Personal		65000	1350.42	65000	1308.21		10600	239.98	11403	308.20		
Limestone Quarry	40	100	2.08	100	2.01							
Total	79	245100	5092.67	245100	4926.22							
<b>MASONVILLE TOWNSHIP:</b>												
Section 2 - 43 - 21	480	4800	201.07	4800	170.89							
" 3 - 43 - 21	640	4800	201.52	4800	170.81							
" 4 - 43 - 21	640	4740	198.93	4740	168.69							
" 5 - 43 - 21	600	3600	150.14	3640	136.87							
" 6 - 43 - 21	280	1860	77.82	2160	76.92							
" 9 - 43 - 21	640	4800	201.51	4800	170.81							
" 10 - 43 - 21	640	4800	201.51	4800	170.81							
" 11 - 43 - 21	160	1480	61.93	1580	52.72							
" 18 - 43 - 21	320	3200	134.05	3200	113.63							
" 30 - 43 - 21	160	1360	56.84	1360	48.45							
Total	4560	35440	1485.32	36080	1280.93							
<b>LIMESTONE TOWNSHIP:</b>												
Section 13 - 44 - 22	440	1980	89.96	1980	93.96							
" 15 - 44 - 22	320	1440	65.44	1440	68.14							
" 21 - 44 - 22	320	1680	76.36	1680	79.73							
" 22 - 44 - 22	320	1440	65.44	1440	68.14							
" 24 - 44 - 22	480	2160	98.16	2160	102.48							
" 36 - 45 - 21	160	720	32.72	720	34.14							
Personal		12000	545.42	6800	298.02							
Total	2040	21420	973.50	15720	744.61							
<b>MATHIAS TOWNSHIP:</b>												
Section 7 - 44 - 21	160	800	40.44	800	35.91							
" 18 - 44 - 21	634	3800	192.39	3800	170.54							
" 28 - 44 - 21	480	2600	131.50	2800	125.66							
" 29 - 44 - 21	320	1600	80.88	1700	76.80							
" 30 - 44 - 21	160	800	40.44	800	35.90							
" 31 - 44 - 21	560	2800	141.52	3000	134.64							
" 32 - 44 - 21	640	3200	161.76	3200	143.02							
" 33 - 44 - 21	480	2400	121.33	2400	107.72							
" 34 - 44 - 21	320	1600	80.88	1600	71.81							
Personal		50	2.55	9400	421.80							
Total	3754	19650	993.75	29500	1323.90							
<b>GARDEN TOWNSHIP:</b>												
Section 12 - 41 - 18	160	400	4.40	400	5.02							
" 13 - 41 - 18	640	1600	17.94	1600	20.06							
Total	800	2000	22.34	2000	25.08							
<b>THOMPSON TOWNSHIP:</b>												
Section 23 - 42 - 17	640	1280	50.10	1280	41.69							
" 22 - 42 - 17	520	520	20.48	520	16.94							
" 23 - 42 - 17	640	1280	50.10	1280	41.69							
Total	1800	3080	120.68	3080	100.32							
<b>INWOOD TOWNSHIP:</b>												
Section 2 - 41 - 17	644	1300	29.43	1300	35.15							
" 3 - 41 - 17	645	1275	28.37	1280	34.60							
" 4 - 41 - 17	500	1400	31.68	1400	37.84							
" 5 - 41 - 17	480	1200	27.16	1200	32.44							
" 7 - 41 - 17	480	825	18.67	1018	27.46							
" 8 - 41 - 17	400	975	23.07	1000	27.03							
" 9 - 41 - 17	400	800	18.13	800	21.63							
" 10 - 41 - 17	640	1600	36.23	1600	43.24							
" 12 - 41 - 17	480	1225	27.74	1432	38.67							
" 18 - 41 - 17		000		375	10.14							
Personal												
Total	4720	10600	239.98	11403	308.20							
<b>RECAPITULATION:</b>												
City of Gladstone							9985	431.90	10055	389.30		
Brampton Township	79	245100	5092.67	245100	4926.22							
Masonville Township	4560	35440	1485.32	36080	1280.93							
Limestone Township	2040	21420	973.50	15720	744.61							
Mathias Township	3754	19650	993.75	29500	1323.90							
Garden Township	800	2000	22.34	2000	25.08							
Thompson Township	1800	3080	120.68	3080	100.32							
Inwood Township	4720	10600	239.98	11403	308.20							
Total	17762	347275	9360.23	352938	9098.56							
<b>DISTRIBUTION OF TAXES 1908</b>												
<b>CITY OF GLADSTONE:</b>												
W. C. Mather, Treasurer										310.05		
Operating Rented Buildings										121.85		
Total										431.90		
<b>BRAMPTON TOWNSHIP:</b>												
Furnace General Expense										3395.05		
Chemical General Expense No. 1										848.81		
Chemical General Expense No. 2										848.81		
Total										5092.67		
<b>MASONVILLE TOWNSHIP:</b>												
Accounts Receivable										296.21		
Mathews Tract Taxes										1189.11		
Total										1485.32		
<b>LIMESTONE TOWNSHIP:</b>												
Mathews Tract Taxes										973.50		
Total										973.50		
<b>MATHIAS TOWNSHIP:</b>												
Accounts Receivable										33.94		
Mathews Tract Taxes										959.81		
Total										993.75		
<b>GARDEN TOWNSHIP:</b>												
W. C. Mather, Treasurer										22.43		
Total										22.43		
<b>THOMPSON TOWNSHIP:</b>												
Accounts Receivable										25.04		
W. C. Mather, Treasurer										95.64		
Total										120.68		
<b>INWOOD TOWNSHIP:</b>												
Accounts Receivable										57.83		
W. C. Mather, Treasurer										182.15		
Total										239.98		
Grand Total										9360.23		

Made by *adw*  
 Figured by *adw*  
 Copied by *adw*  
 Corrected by *adw*  
 Examined by *adw*

00 HORI STYLO-GRAPHED AND  
 PREPARED BY  
 THE CLEVELAND-CLIFFS IRON CO.  
 PITTSBURGH, PA.  
 1908

THE CLEVELAND-CLIFFS IRON CO.  
FURNACE DEPARTMENT

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING FISCAL YEARS 1908 AND 1907

ACCOUNT OF	GRADE	Y E A R 1 9 0 8			Y E A R 1 9 0 7		
		NET TONS LBS.	PRICE	AMOUNT	NET TONS LBS.	PRICE	AMOUNT
Lake Erie Ports	Yough. $\frac{3}{4}$	16088 0200	2.25	36198.23	13846 0820	2.25	31132.90
Pittsburgh Coal Co.	" "	6677 0300	3.20	21394.52	2833 0700	3.45	9772.45
		22765 0500	2.530	57592.75	16679 1520	2.453	40905.35
Lake Freight			.247	5630.84		.291	4846.87
Switching from Glad-stone Dock			.141	3208.28		.148	2478.12
Switching from Furnace yard			.019	430.84		.021	355.27
Discharging			.108	2413.22		.125	2077.23
Reloading			.225	5124.97		.257	4286.67
Handling			.046	1056.02		.031	517.17
Analysis			.004	87.18		.005	34.40
Insurance			.001	27.16		.002	29.73
<b>Total</b>		22765 0500	3.319	75571.26	16679 1520	3.333	55580.81
Inventory Dec. 1st		5627 1970	3.175	17865.01	5091 0395	2.879	14655.07
<b>Grand Total</b>		28393 0470	3.290	93436.27	21770 1915	3.226	70235.88
<b>CHARGED TO:-</b>							
Furnace		135 0600	3.291	445.27	191 1200	3.614	692.59
Chemical Plant No. 1		716 1100	3.350	2400.61	726 1940	3.149	2289.25
Chemical Plant No. 2		4420 0780	3.335	14960.31	3898 0423	3.294	12841.37
Acetate Plant No. 1		6829 0380	3.367	22989.55	5549 0537	3.271	18153.59
Acetate Plant No. 2		2175 1400	3.371	7335.38	2820 0500	3.157	8904.49
Retorts		1573 1040	3.236	5174.25	2586 1045	3.200	8279.01
Locomotive		351 1600	3.356	1180.63	370 0300	3.257	1205.57
Relining Stack		452 0860	3.255	1472.47			
Repairing Stoves		47 0000	3.300	155.10			
<b>Total Used</b>		16701 1820	3.360	56113.57	16142 1945	3.244	52370.87
Balance on hand Nov. 30th		11691 0650	3.192	37322.70	5627 1970	3.175	17865.01
<b>ANTHRACITE: SCREENINGS:-</b>							
Consolidated Fuel & Lbr Co.		191 1690	2.20	422.96	247 1900	2.090	727.12
Pittsburgh Coal Co.		280 0700	3.25	910.97	1075 0700	3.250	3494.93
The C. Reiss Coal Co.		1200 0700	2.20	2638.02	1363 0500	2.250	3078.41
		1672 1090	2.375	3971.95	2786 1100	2.620	7300.46
Freight			.248	414.72		.155	433.63
Swtg, in Fur. Yard			.017	28.96		.010	28.75
Handling			.017	29.16		.010	27.63
<b>Total</b>		1672 1090	2.657	4444.80	2786 1100	2.795	7790.47
Inventory Dec. 1st.		1075.0900	2.630	2828.57	521.0900	2.622	1372.25
<b>Grand Total</b>		2747 1990	2.640	7273.37	3308 0000	2.770	9162.72
<b>CHARGED TO:-</b>							
Retorts		2159 0620	2.646	5713.03	2232.1100	2.838	6334.15
Balance on hand Nov. 30th.		588.1370	2.651	1560.34	1075 0900	2.620	2828.57

**Note:-**

Total cost per ton Youghiogheny coal high account of reloading charges to the amount of \$519.91 for 1907 being paid in 1908.

Lake freight .35 Variations from these costs are caused by coal bought from Pittsburgh  
 Discharging .15 Coal Co. FOB Glad. Dock on which there are no discharging and re-  
 Reloading .30 loading charges. Also account of 2263 tons stored  
 Switching From Glad.Dock .15 on Glad. Dock Nov. 30th on which there are as  
 yet no reloading, switching nor handling charges. Variations in cost per ton  
 of coal charged out to the different plants due to varying percentages of Lake  
 and rail coal used monthly.

Made by \_\_\_\_\_  
 Figured by \_\_\_\_\_  
 Copied by \_\_\_\_\_  
 Corrected by \_\_\_\_\_  
 Examined by \_\_\_\_\_

32

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE WOOD REPORT

1908

1907

### WOOD RECEIVED:-

Cds.

Cds.

#### Inventory Dec. 1st.

Kilns	4306.250	3654.500
Yard	5026.000	32.500
Received from Mathews	21021.000	30746.250
" " Alger	20612.250	18371.250
" " Limestone	14169.000	13912.250
" " Parsons	0.000	9446.625
" " Jobbers	599.250	34.500
" " Eben ( P.I. Co. )	685.500	0.000
<b>Total</b>	<b>66419.250</b>	<b>76197.875</b>

### WOOD USED:-

Carbonized in Kilns	39799.000	5813.875 #
" " Retorts	12278.000	14997.000
Used at Chemical Plant No. 1	312.000	535.500
" under Furnace Boilers	197.500	151.250
" at Club House wood	5.000	10.500
" at Lime House "	7.000	8.000
" for Retort Fuel Brands	187.000	180.000
" for thawing Ore "	168.500	191.000
" for locomotive "	9.000	22.000
" for Bottom Fillers "	8.000	6.000
" for drying new linings	70.000	0.000
" at Acetate Plant No. 1 wood	6.000	0.000
Sold to Tenants	289.000	329.500
<b>Total</b>	<b>53336.000</b>	<b>66865.625</b>

#### Inventory Dec. 1st:-

Yard	8812.250	5026.000
Kilns	4271.000	4306.250
<b>Total</b>	<b>13083.250</b>	<b>9332.250</b>

#### Note:-

# Shortage at Parsons

Made by cow  
 Figured by cow  
 Copied by cow  
 Corrected by cow  
 Examined by cow



33

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT  
and  
PIONEER IRON COMPANY,  
Furnace Department

## COMPARATIVE STATEMENT OF SALARIES AND PERQUISITES

From 1904 to 1908 inc.

	1908	1907	1906	1905	1904
<u>Manager</u>					
Salary	10000.00	10000.00	8000.00	8000.00	8000.00
Salary Coachman	720.00	690.00	600.00	545.00	480.00
Feeding Horses	198.80	196.00	192.00	192.00	192.00
House Rent	600.00	600.00	600.00	600.00	600.00
Launch	25.00	1.00	25.00	29.48	35.21
<b>Total</b>	<b>11543.80</b>	<b>11487.00</b>	<b>9417.00</b>	<b>9366.48</b>	<b>9307.21</b>
<u>Barn Boss</u>					
Salary	600.00	600.00	600.00	600.00	600.00
House Rent	72.00	72.00	72.00	72.00	72.00
<b>Total</b>	<b>772.00</b>	<b>672.00</b>	<b>672.00</b>	<b>672.00</b>	<b>672.00</b>
<u>Yard Foreman</u>					
Salary (1)	1200.00	1200.00	1020.00	170.00	500.00
Feed of horse (his own)	120.00	120.00	120.00	15.00	45.00
<b>Total</b>	<b>1320.00</b>	<b>1320.00</b>	<b>1140.00</b>	<b>185.00</b>	<b>545.00</b>
<u>Founder #1 Furnace</u>					
Salary	1620.00	1620.00	1620.00	1620.00	1620.00
Electric Lights	12.00	12.00	12.00	12.00	12.00
House Rent	96.00	96.00	96.00	96.00	96.00
Telephone	12.00	12.00	12.00	12.00	12.00
Water (2)	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>1740.00</b>	<b>1740.00</b>	<b>1740.00</b>	<b>1740.00</b>	<b>1740.00</b>
<u>Chief Engineer</u>					
Keep of Horse	150.00	150.00			
<u>Fuel Superintendent</u>					
Marquette Exp. (3)	266.94	330.03	320.40	341.68	289.04
<u>Assistant Auditor</u>					
<u>Chemist</u>					
<u>Draftsman</u>					
<u>Stenographer</u>					
<u>Clerks</u>					
Team to and from Furnace	240.00	240.00	240.00	180.00	180.00
<b>Total</b>	<b>656.94</b>	<b>720.03</b>	<b>460.40</b>	<b>521.68</b>	<b>469.04</b>
<u>Founder #2 Furnace</u>					
Salary	2040.00	2040.00	2040.00	1940.00	1800.00
House rent (4)	0.00	0.00	0.00	100.00	240.00
<b>Total</b>	<b>2040.00</b>	<b>2040.00</b>	<b>2040.00</b>	<b>2040.00</b>	<b>2040.00</b>

33

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## SALARIES AND PERQUISITES - - - - - 2

	1908	1907	1906	1905	1904
<u>Cashier, Carp Furnace</u>					
<u>Founder</u> " "					
<u>Chemist</u> " "					
Horse to and from Furnace (5)	20.00	240.00 ✓	240.00		
<u>Chief Machinist , Gladstone Fur.</u>					
Electric Lights	12.00	12.00 ✓			
<u>Chemical Supt, Gladstone Plants</u>					
Electric Lights (6)	9.00	12.00 ✓			

### Notes

- (1) Salary for two months only in 1905
- (2) Water furnished from an artesian well, cost 331.78
- (3) Room rent and board while at Marquette
- (4) Rent included in salary since May 1905
- (5) December month only in 1908 account of closing down Nov.30, 07
- (6) Chemical Supt. A. N. Sinclair died Sept 1, 1908



39

NOVEMBER 30th., 1908  
DIVISION OF COMMON EXPENSE

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

RECEIVED  
JAN 14 1909

PER CENT OF DIVISIONS OF COMMON EXPENSE NOVEMBER 30th., 1908.

	<u>Furnace</u>	<u>Chemical Plant No. 1</u>	<u>Chemical Plant No. 2</u>	<u>Acetate Plant No. 1</u>	<u>Acetate Plant No. 2</u>
Lab'y. Supplies	30	30	30	5	5
Analysis & Testing	30	30	30	5	5
General Office based on percentage of labor	58	16	9	12	5

Made by \_\_\_\_\_  
 Figured by \_\_\_\_\_  
 Copied by EWJ  
 Corrected by EWJ  
 Examined by EWJ

*On Cortshutz salaries of Dr. Hudson and assistants are charged direct to "Analysis and Testing" at the chemical plants alone.*

*EWJ*

*not complete*

40

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## LAND SALES TO NOVEMBER 30th., 1908.

Deed No	Sold to	Description	Sec	T	R.
1	Caron & Rough	S $\frac{1}{2}$ of NE $\frac{1}{4}$	7	41	17
		NE $\frac{1}{4}$	8	"	"
2	E. E. Loop	N $\frac{1}{2}$ of SE $\frac{1}{4}$	8	"	"
		N $\frac{1}{2}$ of NE $\frac{1}{4}$	28	44	21
		N $\frac{1}{2}$ of NW $\frac{1}{4}$	"	"	"
3	Adolph Caron	N $\frac{1}{2}$ of NW $\frac{1}{4}$	9	41	17
4	Joseph Caron	S $\frac{1}{2}$ of NW $\frac{1}{4}$	9	"	"
5	Joseph Martin	S $\frac{1}{2}$ of SE $\frac{1}{4}$	5	"	"
6	Peter Archambault	W $\frac{1}{2}$ of NW $\frac{1}{4}$	7	"	"
6 $\frac{1}{2}$	School Bistrict #3	One half acre	18	"	"
8	Dominick Poupor	N $\frac{1}{2}$ of NE $\frac{1}{4}$	7	"	"
9	John F. Middaugh	S $\frac{1}{2}$ of SE $\frac{1}{4}$	8	"	"
10	James Vincent	N $\frac{1}{2}$ of SW $\frac{1}{4}$	9	"	"
12	Arthur Bergeron	N $\frac{1}{2}$ of SE $\frac{1}{4}$	5	"	"
16	Gilbert Olson	S $\frac{1}{2}$ of NE $\frac{1}{4}$	18	"	"
20	Ed Walde	NW $\frac{1}{4}$ of NE $\frac{1}{4}$	31	44	21
21	Nels Ebbson	NE $\frac{1}{4}$ of NE $\frac{1}{4}$	6	43	21
25	John Smith	S $\frac{1}{2}$ of SE $\frac{1}{4}$	4	41	17
29	Oluff Sorrenson	SW $\frac{1}{4}$ of SE $\frac{1}{4}$	5	43	21
34	Jonas Anderson	SE $\frac{1}{4}$ of SE $\frac{1}{4}$	31	44	21
40	Edwin Sprague	E $\frac{1}{2}$ of SW $\frac{1}{4}$	18	41	17

### CONTRACTS

7	Henry Tebeart	S $\frac{1}{2}$ of SW $\frac{1}{4}$	5	41	17
11	Joseph Marcure	N $\frac{1}{2}$ of NE $\frac{1}{4}$	18	"	"
13	Naius Poupor	E $\frac{1}{2}$ of NW $\frac{1}{4}$	7	"	"
14	Arthur Demars	S $\frac{1}{2}$ of SW $\frac{1}{4}$	8	"	"
17	P. Archambault, Jr.	N $\frac{1}{2}$ of NW $\frac{1}{4}$	8	"	"
22	R. W. Bellows	S $\frac{1}{2}$ of SE $\frac{1}{4}$	18	"	"
24	Mrs Louisa Fox	S $\frac{1}{2}$ of NW $\frac{1}{4}$	5	"	"
27	Onisieme Demars	S $\frac{1}{2}$ of NW $\frac{1}{4}$	8	"	"
28	Ole Hermanson	N $\frac{1}{2}$ of SE $\frac{1}{4}$	33	42	"
30	Xavier Lamoreux	N $\frac{1}{2}$ of SE $\frac{1}{4}$	7	41	"
31	Amedie Archambault	S $\frac{1}{2}$ of SE $\frac{1}{4}$	7	"	"
33	Herman Winkle	NW $\frac{1}{4}$	33	42	"
35	Louis Miller	S $\frac{1}{2}$ of SE $\frac{1}{4}$	28	"	"
36	Mike Fox	N $\frac{1}{2}$ of SW $\frac{1}{4}$	5	41	"
37	Joseph Gouin	E $\frac{1}{2}$ of SW $\frac{1}{4}$	7	"	"
38	Charles Blosser	W $\frac{1}{2}$ of W $\frac{1}{2}$ of SW $\frac{1}{4}$	7	"	"
39	Curtis Blosser	E $\frac{1}{2}$ of " "	7	"	"
41	Jasper N. Cook	N $\frac{1}{2}$ of SW $\frac{1}{4}$	8	"	"
42	Yalmer Jokinen	NW $\frac{1}{4}$ of NE $\frac{1}{4}$	6	43	21

### OPTION

Christian Peterson	S $\frac{1}{2}$ of NE $\frac{1}{4}$	4	41	17
	N $\frac{1}{2}$ of SE $\frac{1}{4}$	"	"	"

*Consolidated statement  
with letter to file 1/3/09  
A. B. C.*

Made by edw  
 Figured by \_\_\_\_\_  
 Copied by \_\_\_\_\_  
 Corrected by \_\_\_\_\_  
 Examined by edw

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## LAND SALES AND OPTIONS FOR THE YEAR 1908

### PARSONS TRACT SALES

PURCHASER	Description	Sec.	T.	R.	Date	Acres	Price	Amount
					Optn			
# Christian Peterson	S $\frac{1}{2}$ of SE $\frac{1}{2}$	28	42	17	1907 7/ 1	160	5.00	800.00 ✓
Curtis Blosser	E $\frac{1}{2}$ , W $\frac{1}{2}$ of SW $\frac{1}{2}$	7	41	17	None	40	5.00	200.00 ✓
Charles Blosser	W $\frac{1}{2}$ , W $\frac{1}{2}$ of SW $\frac{1}{2}$	7	41	17	"	40	5.00	200.00 ✓
% Edwin S. Sprague	E $\frac{1}{2}$ of SW $\frac{1}{2}$	18	41	17	10/ 1	80	3.50	280.00 ✓

### PARSONS TRACT OPTIONS:-

PURCHASER	Description	Sec.	T.	R.	Date	Acres	Price	Amount
					Optn. Expires			
Daniel Cummings	NW $\frac{1}{2}$ of NE $\frac{1}{2}$	9	41	17	6/1/09	80	5.00	10.00 ✓

### MATHEWS TRACT LAND SALES:-

Yalmer Yokinen	NW $\frac{1}{2}$ of NE $\frac{1}{2}$	6	43	21	6/1/07	40	5.00	200.00 ✓
----------------	--------------------------------------	---	----	----	--------	----	------	----------

### Notes:-

- # Contract not made, first payment not being completed
- % Option issued to Oliver Montgomery.

*Contract not yet received 12/28/08*

Made by \_\_\_\_\_  
 Figured by \_\_\_\_\_  
 Copied by *CSM*  
 Corrected by \_\_\_\_\_  
 Examined by *CSM*

REPORT MADE BY  
 CITY OF GLADSTONE  
 NOVEMBER 30th., 1908.

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## VACANT PROPERTY

IN THE CITY OF GLADSTONE NOVEMBER 30th., 1908.

<u>Lot</u>	<u>Block</u>	<u>Addition</u>	<u>Ward</u>
10	4	Central Avenue	2nd
8	7	" "	"
9	7	" "	"
10	7	" "	"
11	7	" "	"
6	5	" "	"
10	5	" "	"
11	5	" "	"
11	75	F i r s t	4th
12	75	" "	"
24	76	" "	"
26	76	" "	"
16	79	" "	"
24	79	" "	"
4	80	" "	"
5	80	" "	"
13	80	" "	"
14	80	" "	"
4	88	" "	"
5	88	" "	"
3	97	" "	"
4	97	" "	"
5	97	" "	"
17	2	South Shore	2nd
18	2	" "	"
19	2	" "	"
20	2	" "	"
21	2	" "	"
22	2	" "	"
30	2	" "	"
31	2	" "	"
32	2	" "	"

Government Lot No. 3 Section 22 - 40 - 22

Made by CSW  
 Figured by \_\_\_\_\_  
 Copied by CSW  
 Corrected by CSW  
 Examined by CSW

*Lots 6 and 7 Block A So Shore Addn. are not included in this statement but were included in the 1907 reports. Mr. Mason's letter of Jan 20 1908 states that they had been included in previous years though error. The Barre Post Office occupies these two lots. See letter to file 7/5/09.*

3  
K  
THE CLEVELAND-CLIFFS IRON CO.  
FURNACE DEPARTMENT  
YEARLY YTD SHOTGALD  
NOV 1908

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

SALES GLADSTONE CITY PROPERTY DURING THE YEAR 1908.

N O N E

Made by CDW  
Figured by \_\_\_\_\_  
Copied by CDW  
Corrected by \_\_\_\_\_  
Examined by CDW

OK  
APR 27/28/08



# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

CORRECTED  
SUTHERLAND-INNES STUMPAGE RELEASED FROM TAXES TO

NOVEMBER 30TH., 1908.

NOVEMBER 30TH., 1908  
 RECEIVED FROM TAXES  
 SUTHERLAND-INNES STUMPAGE

	<u>Description</u>	<u>Section</u>	<u>Town</u>	<u>Range</u>
160	NE $\frac{1}{4}$	30	45	21
80	N $\frac{1}{2}$ of NW $\frac{1}{4}$	30	45	21
40	SW $\frac{1}{4}$ of NW $\frac{1}{4}$	30	45	21
80	E $\frac{1}{2}$ of SE $\frac{1}{4}$	30	45	21
160	SW $\frac{1}{4}$	15	44	21
40	NE $\frac{1}{4}$ of NE $\frac{1}{4}$	21	44	21
80	S $\frac{1}{2}$ of NE $\frac{1}{4}$	21	44	21
40	NE $\frac{1}{4}$ of NW $\frac{1}{4}$	21	44	21
40	S $\frac{1}{2}$ of NW $\frac{1}{4}$	21	44	21
320	S $\frac{1}{2}$	21	44	21
160	E $\frac{1}{2}$ of E $\frac{1}{2}$	31	46	21
80	S $\frac{1}{2}$ of SW $\frac{1}{4}$	20	45	21
80	N $\frac{1}{2}$ of NW $\frac{1}{4}$ +	29	45	21
40	SW $\frac{1}{4}$ of NW $\frac{1}{4}$	29	45	21
80	W $\frac{1}{2}$ of SW $\frac{1}{4}$	29	45	21
320	N $\frac{1}{2}$	35	44	21
80	E $\frac{1}{2}$ of SW $\frac{1}{4}$	35	44	21
160	SE $\frac{1}{4}$	35	44	21
<u>2040</u>				

1907 Taxes paid per *CV* 108175 *Clear off file*  
 1908 " " " " 209194 "

Made by 205  
 Figured by ✓  
 Copied by ✓  
 Corrected by ✓

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## COMPARATIVE STATEMENT OF MILEAGE MADE BY CHARCOAL CARS IN ALL SERVICES

Old No.	New No.	1908	1907	1906	1905	1904
119	1	270	480.0	47.1		
132	2	324	1274	36.5		539.0
103	3	924	924	211.0		
124	4	378	378	30.0		
125	5	288	1393	30.0		
137	6	342	504	61.8		642.0
117	7	324	414	87.5		763.0
138	8	342	1621	53.1		2012.5
109	9	1008	1092	394	40.0	
101	10	564	558	147.1		
111	11	36	540	101.5		572.1
112	12	324	540	201.8		437.0
131	13	378	324	136.7		
134	14	306	558	102.5		1396.0
136	15	378	432			362.0
127	16	342	468	138.8		
105	17	1008	1008	407.1	41.0	
102	18	588	792	81.6	112.0	
104	19	252	612	290.1		760.0
120	20	180	504	101.5		
108	21	234	324	36.5	100.0	897.5
135	22	270	540			
110	23	306	540	205.6	50.0	512.0
107	24	354	756	486.1	41.0	
113	25	252	162	15.0		
116	26	252	522	136.3		
129	27	306	468	70.7		
128	28	378	432	101.5		
118	29	360	324	142.9		
		11268	18484	3854.3	384.0	8893.1

Note:-

Car No. 115 at Limestone camp  
Car No. 126 sold to the Mining Department in 1908.

Made by com  
Figured by \_\_\_\_\_  
Copied by \_\_\_\_\_  
Corrected by \_\_\_\_\_  
Examined by com

SUMMARY OF MILEAGE MADE BY CHARCOAL CARS IN VARIOUS SERVICES.

	1908	1907	1906	1905	1904
Soo Line Charcoal Service,	144	360	755.	384.	
Soo Line & E & L S Charcoal (Mashek)	7092	10566			
Soo Line Lime Service (Manistique)	4032	4620	1260.		
C. & N. W. Charcoal Service,		2938	1839.3		2012.5
P. M., A. A., & M. N. & N. (Cadillac)					6880.6
Total,	11268	18484	3854.3	384	8893.1

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

NOVEMBER 1908  
 SALES ACCOUNT  
 SOFT WOOD LOG JOB AT MATHEWS

*of Bark*  
 SALES ACCOUNT SOFT WOOD LOG JOB AT MATHEWS,  
 NOVEMBER, 1908.

	<u>Debits</u>	<u>Credits</u>
To sale of 786.549 cords of bark		4894.99
By cost of 883.125 " " "	1584.49	
" teaming bark 100%	343.34	
" swamping bark "	431.84	
" measuring bark "	9.35	
" loading bark "	12.00	
" depreciation Portable R'y. Equip.	235.96	
" Foreman 29%	122.39	
" Stationery & Printing "	2.46	
" Making & Rep. roads 24%	67.98	
" Blacksmith "	26.09	
" Barn Boss "	28.08	
" Depreciation Horses & Equip. "	61.69	
" Horse feed "	154.53	
" Repairs to Spurs "	22.92	
" Horse medicine "	1.38	
" Net profit closed to Treasurer, in November accounts ( <i>Profit on Forest Products</i> )	<u>1790.49</u>	
	4894.99	4894.99

Note:-

All transportation items charged against sale of bark at 24% of total, the basis being teaming costs.

All general items charged at 29% of total, the basis being cost of piece work.

Made by *GMW*  
 Figured by \_\_\_\_\_  
 Copied by *GMW*  
 Corrected by \_\_\_\_\_  
 Examined by *GMW*

*Price received per cord of bark*      6.23  
*Cost per cord of bark*                      =      3.52  


---

*Profit per cord*                                      2.71

Profit of 1790.49 should be 338.98 more as cost of inventory 96.576 c'ds bark is included.

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT  
for the year ending November 30th., 1908.

No.	AUTHORIZATION		C O S T				D I S P O S I T I O N				BALANCE		
	Description	AMOUNT	To end of Last Fiscal Year	During Current Year	TOTAL to date	To end of Last Fiscal Year	Cost Sheet or Account	Item Rate Unit	Based On	During Current Year	TOTAL to date	Bal. Sht. Item	Amount
K	Ten 60 Cord Kilns	6845 30	6026 90		6026 90	4904 99	Charcoal	Dep. 0025 Bu.	Coal produced	879 29	5784 28	58	242 02
53	Twenty 60 Cord Kilns	23509 22	22901 89		22901 89	4014 37	Charcoal	Dep. 0025 Bu.	Coal produced	3341 80	7355 87	58	15546 22
	Experimental Kiln & Retort		1108 24		1108 24	811 27	Charcoal	Dep. 0025 Bu.	Coal produced	175 86	387 13	58	721 11
	<b>TOTAL CHARCOAL PLANT</b>		30037 03		30037 03	9130 63				4396 45	13527 08		16509 95
54	Enlarging Chem. Plant No.1		96987 11		96987 11	83169 47	Alcohol No.1	Dep. 12 1/2 % Year		4572 60	87742 07	58	9145 04
73	New Still House & App.	85054 00	85472 16		85472 16	25657 20	Alcohol No.1	Dep. 15 % Year		12828 60	38485 80	58	40986 36
	Sup. Estimate	71998 00											
	Sup. Estimate	13055 00											
77	Chute Apparatus	8705 00	18546 65		18546 65	3153 00	Alcohol No.1	Dep. 17 % Year		3153 00	6306 00	58	12240 65
	Sup. Estimate	10510 00											
72	New Blowing & Pumping Engine	29382 50	27275 87		27275 87	7982 40	Alcohol No.1	Dep. 15 % Year		3991 20	11973 60	58	15302 27
	Sup. Estimate	28390 50											
90	Alcohol Storage Tanks	3600 40		2823 11	2823 11							58	2823 11
	<b>TOTAL CHEM. PLANT NO.1</b>		228181 79	2823 11	231004 90	119962 07				24545 40	144507 47	47	86497 43
39	Chemical Plant No.2		61141 90		61141 90	39204 78	Acetate No.2	Dep. 10 % Year		5834 88	45039 66	58	16102 24
39	Acetate Plant No.2	111989 40	7963 40		7963 40	4878 25	Acetate No.2	Dep. 10 % Year		741 00	5610 25	58	2344 15
39	Retorts		56499 72		56499 72	54276 55	Charcoal	Dep. 015 Bu.	Coal produced	7329 25	21658 22	58	19222 79
72	New Blow. & Pump. Eng. #463	9787 50	6818 96		6818 96	1363 20	Alcohol No.2	Dep. 10 % Year		681 60	2044 80	58	4774 16
	Sup. Estimate	324 00	2273 00		2273 00	454 80	Acetate No.2	Dep. 10 % Year		227 40	682 20	58	1590 80
	<b>TOTAL CHEMICAL PLANT NO.2</b>		136696 98		136696 98	60177 98				14874 26	95052 84		41644 14
55	Rebuilding Acetate Plant No.1		13224 60		13224 60	8467 20	Acetate No.1	Dep. 15 % Year		1933 60	10450 80	58	2773 80
81	New Dry Floor	4818 00	4787 19		4787 19	813 84	Acetate No.1	Dep. 17 % Year		813 84	1627 68	58	3159 51
72	New Blow. & Pump. Eng. #468	9787 50	9091 95		9091 95	3727 60	Acetate No.1	Dep. 15 % Year		1368 80	4091 40	58	5000 55
	Sup. Estimate	324 00											
87	Acetate Storage House No.1	1364 98	1092 16	139 16	1231 32							58	1231 32
	Acetate Tower			471 08	471 08							58	471 08
	<b>TOTAL ACETATE PLANT NO.1</b>		28195 90	610 24	28806 14	12008 64				4161 24	16169 88	58	12636 26
40	Five Double Tene. Houses	4657 45	4689 71		4689 71	1322 78	House Rents		Net Earnings	2579 51	3902 29	58	787 42
58	Five Double Tene. Houses	6037 40	5010 64		5010 64							58	5010 64
59	Club House	3298 30	3515 03		3515 03							58	3515 03
74	Steam Heater Engr.'s. Res.	450 00	450 00		450 00							58	450 00
84	Steam Heater Audis Res.	640 00	640 00		640 00							58	640 00
	Clearing Site, Walks & Fences		495 04		495 04							58	495 04
2	Tene. House Well No.1	547 19	547 19		547 19							58	547 19
	Repairs Rented Houses		10875 31	617 44	11492 75	10875 31	House Rents			617 44	11492 75	58	58
43	Tene. House Well No.2	516 65	516 65		516 65							58	516 65
	<b>TOTAL HOUSES</b>		26739 57	617 44	27357 01	12198 09				3196 95	15395 04	58	11961 97
89	1907 Ext. Math. Delta Ry	1400 00	1160 71		1160 71	18 50	Mathews Rents		Rents Collected	61 00	79 50	58	
	Sup. Estimate	300 00				235 85	Ldg. Math. Wood	Dep. .09 Cord	Wood Hauled	845 36	1081 21		
91	Minor's Spur	2647 70		1888 21	1888 21							58	1888 21
86	Limestone Loud Spur	175 00	161 96		161 96	36 38	Ldg. Lstone. Wood	Dep. .10 Cord	Wood Hauled	125 58	161 96	58	
88	Soc Spur	231 00	202 75		202 75		Ldg. Lstone. Wood	Dep. .10 Cord	Wood Hauled	202 75	202 75	58	
	<b>TOTAL SPURS</b>		1525 42	1888 21	3413 63	290 73				1234 69	1525 42		1888 21
85	Limestone Loud Camp	2860 00	2524 99		2524 99	364 36	Alger Wood	Dep. .10 Cord	Wood Cut	954 70	1315 25	58	617 38
						360 55	Lstone Wood	Dep. .05 Cord	Wood Cut	228 00	228 00		
							Lstone Rents		Rents Collected				
	<b>TOTAL CAMPS &amp; BARN</b>		2524 99		2524 99	724 91				1182 70	1907 61		617 38
	Portable Ry Equipment	22459 93			22459 93	9493 08	Accts. Rec.		Sale of Boiler		9493 08	60	11534 33
						150 00	Ldg. Math. Wood	Dep. .09 Cord	Wood Hauled	1046 56	1046 56		
							Math. S.W. Job	Dep. .30 Cord	Bark Shipped	235 96	235 96		
	<b>TOTAL PORT. RY. EQUIPMENT</b>		22459 93		22459 93	9643 08				1282 52	10925 60		11534 33
	<b>TOTAL NEW CONSTRUCTION &amp; IMPROVEMENT</b>	476361 61	5939 00	462300 61	244136 13					54874 81	299010 94		183289 67
72	New Blow. & Pump. Eng.	50510 86	50510 86		50510 86	5051 08	Pig Iron	Dep. .50 Ton	Iron Produced		5051 08		
	Sup. Estimate	1860 00				7982 40	Alcohol No.1	Dep. 15 % Year		3991 20	11973 60		15302 27
						9091 95	Acetate No.1	Dep. 15 % Year		1368 80	4091 40		5000 55
						6818 96	Alcohol No.2	Dep. 10 % Year		681 60	2044 80		4774 16
						2273 00	Acetate No.2	Dep. 10 % Year		227 40	682 20		1590 80
	<b>TOTAL NEW BLOWING &amp; PUMPING ENGINES</b>	50510 86		50510 86	17579 08					6264 00	23843 08		26667 78



HG

# The Cleveland-Cliffs Iron Co.

## FURNACE DEPARTMENT

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN-  
CHARGED OFF NOVEMBER 30th., 1908

Authy. No.	Description	Amount Authorized	Total Cost to date
<u>FURNACE GROUP:-</u>			
4	Switch Engine	2995.30	3043.75
1	Extension to Office	517.00	517.00
13	Addition to Locomotive House		258.59
14	Cinder-Derrick		183.46
15	Furnace Condenser Pipe Line		377.39
16	Ore Crusher	4457.35	4058.55
17	Boat House		96.45
18	Railroad Track Scales	1142.73	1142.73
19	Stirling Boiler	3831.62	3831.62
20	Jacket & Water Trough	1519.35	1519.35
25	Coal Shed		29.17
26	Air Brakes & Couplers ( Charcoal Cars )	4221.80	4807.20
27	Water Purifier	750.00	765.00
29	Machine Shop Building	2200.00	2364.29
30	New Laboratory Building	1486.02	1606.71
31	Extension Ore Trestle	1295.28	1275.28
34	Air Pump and Condenser		520.02
36	Locomotive House, brick veneering		252.10
37	Locomotive Water Tank		80.66
38	Founder's Cottage Well		331.78
42	Supply House		1387.55
50	New Fence around Tenement Houses	1103.52	1432.81
51	Painting Company Houses		806.79
65	New Barn	260.74	260.74
67	New Cast House Walls	3222.53	3306.56
	Road to Furnace		800.00
	Rented Houses		12,789.84
72	New Blowing & Pumping Engines	5437.50	5051.08
75	Ore Siding	1589.10	1875.19
	Furnace		20119.77
79	Local Telephone System	390.00	285.49
<u>CHEMICAL PLANT NO. 1 GROUP:-</u>			
	Chemical Plant No. 1		71279.63
A	Chemical Boiler	1079.94	1147.98
B	Condensers	1362.35	1104.67
C	Steel Stills	1102.75	1282.62
D	Storage Tanks	50.00	43.30
J	Extension R'y. tracks to Chemical Plant	441.30	585.65
3	Steam Pipe to Chemical boilers	522.17	432.12
5	Smoke Main	203.50	197.04
6	Chemical Fan	412.50	398.71
7	Condenser ( Squeeze )	770.24	769.48
8	Compound engine	2557.50	2453.30
10 $\frac{1}{2}$	One New Column		1059.92
12	Addition to Chemical and Acetate Plants	10024.60	9408.49
21	Artesian Well		2085.04
22	Tar Tanks		153.59
33	Column & Still No. 5	1673.64	1673.64
35	Bath House	272.82	272.82
46	Covering Tanks & Stills		760.00
47	Refining Still		1523.27
76	Addition to Barrel Storage House	377.08	546.22
	Kilns, original 40 kilns		25047.79



# The Cleveland-Cliffs Iron Co.

## FURNACE DEPARTMENT

Authy. No.	Description	Amount Authorized	Total Cost to date
<u>CHEMICAL PLANT NO. 2 GROUP:-</u>			
48	Covering Tanks and Stills		475.00
49	Feed Water Heater	679.21	638.03
76	Addition to Barrel Storage House	188.54	273.11
<u>ACETATE PLANT NO. 1 GROUP:-</u>			
E	Ovens		230.83
F	Tanks		86.62
G	Piping Tanks		143.31
H	Storage House		6.48
1	Addition to Acetate Building		2.32
23	Acetate Storage House		216.20
24	Acetate Fire Wall		144.90
41	Acetate Plant No. 1 Storehouse		1457.59
Con.	Acetate Plant No. 1		1255.04
<u>RETORT GROUP:-</u>			
44	Auxiliary Coolers	2175.00	2354.22
45	Change in Fire Place Settings		3534.05
<u>RAILROAD GROUP:-</u>			
Con.	Parsons Railway		16590.94
L	Section 27 railroad		88.88
10	1899 Extension Parsons Railway	4841.21	4128.52
	Mathews Portable R'y. Construction		3882.17
	Mathews Tract Spur		290.80
56	Mathews Railway Main Spur	4114.93	3939.96
63	Parsons Spur	5912.50	5555.25
66	Limestone Spur		506.62
71	Mathews-Delta Railway ( Per Mile )	1200.00	4696.52
82	1906 Extension Mathews Delta Railway	2337.50	2508.89
86	Limestone Loud Spur	175.01 ✓	161.96 ✓
88	Soo Spur	231.00 ✓	202.75 ✓
89	1907 Mathews Delta Railway	1400.00 ✓	1160.71 ✓
<u>CAMP &amp; BARN GROUP:-</u>			
28	Experimental Wood wagon	500.00	120.07
32	Parsons Well	311.15	301.94
52	Wood Camps Teaming Outfit	8368.35	8368.35
70	Mathews Round House	770.00	667.07
57	Purchase of Horses & Equipment	23353.00	19448.21
	Parsons Boarding House		299.55
	Parsons 1901 Barn		141.98
	Parsons 1902 Barn		650.37
	Mathews 1900 Barn		314.98
	Mathews 1902 Barn		1622.82
	Mathews 1899-1900 Camp		1224.61
	Mathews Camp No. 2		865.09
	Munising East Barn		809.95
	Munising West Barn		929.18
	Munising East Camp		1787.51
	Munising West Camp		2086.26
69	Mathews Delta Camp	1237.50	1253.89
68	Parsons Camp	880.00	1161.23
66	Limestone Camp		588.54
83	Alger Camp	2835.00 ✓	2827.23 ✓
66	Limestone Barn		771.07
	Limestone Spur, Camp & Barn	1996.77	1866.23

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

<u>Athy. No.</u>	<u>Description</u>	<u>Amount Authorized</u>	<u>Total Cost to date</u>
HOUSE GROUP:-			
1	Five Double Tenement Houses	4531.10	4244.60
9	One Double Tenement House		850.00
	Repairs Rented Houses		11492.75

Made by OWM  
Figured by \_\_\_\_\_  
Copied by OWM  
Corrected by OWM  
Examined by OWM

THE LEVELAND-CLIFFS IRON COMPANY  
PIONEER FURNACE NO.

Stock Report for Month Ending November 30th 1908

.00 MORE

NOTED  
11/20/08  
E. N. W.

PRODUCED OR RECEIVED

SHIPPED OR USED

	Total for Month	On Hand Dec 1, 1907	Total from Dec 1, 1907	On Hand Dec 1, 1907	TOTAL	Total for Month	On Hand Dec 1, 1907	TOTAL	Total for Month	On Hand Dec 1, 1907	TOTAL
<b>Iron</b>	536-780	35858-1780	36198-300	3294-	39499-300	33332-133	103	33465	33332-133	103	33465
Maas		23880-1850	23880-1850	1013-	24773-1850	20443-942	133-1878	20576	20443-942	133-1878	20576
Chase		4687-920	4687-920		4687-920	1033-795		1033-795	1033-795		1033-795
Section 16 Hematite		88-200	88-200	1740-	1834-280	1081-150	146-2116	1081-150	1081-150	146-2116	1081-150
Imperial	156-860	1098-1180	1254-2040		1254-2040	919-483		919-483	919-483		919-483
Lady		650-800	650-800		650-800	681-1345	31-545	681-1345	681-1345	31-545	681-1345
		804-1840	804-1840		804-1840	553-304		553-304	553-304		553-304
<b>Total</b>	692-1620	65648-1430	66341-310	6958-	73294-310	59553-1818	312-59	59865	59553-1818	312-59	59865
<b>Wood</b>											
Wood Camps - Matthews		2392 1/2	25032 X	35372 1/2	61054 1/2	21021		21021	21021		21021
Alum		2503 1/2	30540 X	11831 1/2	42371 1/2	20637 1/2		20637 1/2	20637 1/2		20637 1/2
Limestone		2356 1/2	29236 X	7747 1/2	36974 1/2	14169		14169	14169		14169
Eben		885 1/2	685 1/2		685 1/2	685 1/2		685 1/2	685 1/2		685 1/2
Roanoke Iron Jobbers		885 1/2	599 1/2		599 1/2	599 1/2		599 1/2	599 1/2		599 1/2
<b>Total Wood Camps</b>	7842 1/2	78881 1/2	9 1/2	86733 1/2	34951 1/2	141685 1/2		57112	57112		84573 1/2
Yard		8732 1/2	6382 1/2	5028	11419 1/2	102		2304 1/2	2606 1/2		8912 1/2
<b>Total Camps and Yard</b>	7842 1/2	8732 1/2	9 1/2	93120 1/2	59977 1/2	153104	102	59916 1/2	59718 1/2		93385 1/2
<b>Other</b>		39912 1/2	39912 1/2	4306 1/2	44219	39948		39948	39948		4271
<b>Total</b>		12503	12503		12503	12503		12503	12503		12503
<b>Total</b>	7842 1/2	13 859 1/2	9 1/2	145542 1/2	64283 1/2	209826	109	112067 1/2	112169 1/2		97650 1/2
<b>Alumina</b>		3684-1300	3684-1300	36-465	3720-1765	26-655		2310-1110	2338-1765		1384-0000
Alumina		148494 1/2	148308	19928	168240	8557		151587	159957 1/2		8238 1/2
Alumina		91273 1/2	91287 1/2	11311	103098			101381 1/2	100995 1/2		2103
Gray Alumina of Alumina		324280	326433	487498	3751781	220320		3522766	3729956		24825
Gray Alumina		181286	178582	163121	1942103			1947774	1942103		000
Warwood Alumina		178580	178580	1942103	178580						
Warwood Alumina		503400	503400	4380	572840						
Alumina		91655	91655		91655			2910844	2910844		8727
Alumina		479836	479836	11720	491556						
Alumina		940	940		940						
<b>Total</b>		290371	290371	16100	2919571			1518 1/2	84		1434 1/2
Pyroligneous Acid		815 1/2	1434 1/2		1434 1/2						

116500  
116321  
17174

\*First 75 221 1/2 gals 85% = 2257 gals 95%

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1

00 100

Pig Iron Stock Report for the week ending November 30th, 1908

## PRODUCTION

## SHIPMENTS

Pig Iron Grades	Current Week	Previous for Month	Total for Month	PRODUCTION			SHIPMENTS			Over and Short for Season	Total Since Dec. 1st	Balance in Stock				
				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. 1				Current Week	Previous for Month	Total for Month	Previous Months
A Scotch				645		645	15	25	655			260	260	395		
B Scotch				309		309		51	360			149	149	211		
C Scotch				538		538	15	131	684		60	60	441	501	183	
No. 1 Low				1402		1402		4	1406	407		407	987	1304	12	
No. 1 High				1435	15	1420	27	56	1449				1128	15	1113	326
No. 2 Low				2517	30	2487			2487				1967	30	1937	550
No. 2 High				4133	3	4130	27	30	4137	733	25	758	3073	3	3828	359
No. 3 Low				10164	11	10153		90	10243	35	174	209	6956	11	7154	3089
No. 3 High				3132	14	3168	518	17	2667				2667		2667	00
No. 4 Low				1556	4	1552	439	19	1132				1122	4	1118	14
No. 4 High				1282	5	1277	100		1177	109		109	1043	5	1147	30
No. 5 Low				901		901		274	1175	274		274	740		1014	161
No. 5 High				445	16	429		51	480	186		186	161	16	351	129
No. 6				557		557		50	607				576		576	31
Spotted																
Castings																
Bessemer Special																
Bessemer																
Bessemer																
3 Hi. Car Wheel				386		386	518		904				904		904	00
4 Lo Car Wheel				44		44	439		483				483		483	00
4 Hi Car Wheel							100		100				100		100	00
Total.				29496	98	29398		798	30196	1744	259	2003	22774	34	24696	5500
All Rail Shipments										35	259	394	7404	6	7782	
Lake Shipments										1709		1709	15388	78	16914	

Made by \_\_\_\_\_  
 Approved by \_\_\_\_\_  
 Checked by \_\_\_\_\_  
 Counted by \_\_\_\_\_  
 Weighed by \_\_\_\_\_

3/6

NOV 30 1908

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STOCK ACCOUNTS

November 30th., 1908

### SUPPLIES:-

✓Furnace	17361.54
✓Chemical	2493.65
✓Laboratory	71.45
✓Stock of Coal	38883.04 ✓
✓Mathews Barn	483.75
✓Alger Barn	1054.30
✓Limestone Barn	311.88
✓Club House	170.94
✓Stock of Forest Products	9469.85

Total 70300.40 ✓

### EQUIPMENT:-

Furnace	1682.52
Camp Barn	2183.33
Portable Railway	11534.33

Total 15400.18 ✓

### O R E S:-

	<u>Tons- Lbs</u>		
L a k e	6 6157-0167	3.200	19700.18
M a a s	4464-0546	3.249	14503.24
Cliffs Shaft	3049-0125	4.099	12498.78
Lake Silica	335-1557	1.596	535.83
Lucy	46-1136	2.637	122.60

Total 14052-1291 47360.63 ✓

### W O O D:-

	<u>Cords</u>		
In yard	8812.250	3.140	27672.60
In Kilns	4271.000	2.483	10607.12
Mathews	40033.500	1.306	52287.04
Limestone	22805.125	1.099	25058.79
Alger	21734.625	1.102	23944.06

Total 97656.500 139569.61 ✓

Charcoal (Bushels) 8727 0768 670.23

Limestone ( Tons ) 1384 1.075 1487.80

Grand Total 274788.85

### Balance Sheet

Item No. 44	70300.40
" " 46	3865.85
" " 48	47360.63
" " 50	139569.61
" " 52	1487.80
" " 54	670.23
" " 60	11534.33

Total 274788.85 ✓

Made by edw  
 Figured by \_\_\_\_\_  
 Copied by edw  
 Corrected by edw  
 Examined by edw



36 1/2  
 BOOK OF FOREST PRODUCTS  
 NOVEMBER 20th 1911

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STOCK OF FOREST PRODUCTS

<u>Quantity</u>				<u>Cost</u>	<u>Value</u>
<u>POLES:</u>					
197	Pcs.	16 ft	4 1/4 inches	.06	11.82
36	"	16 "	5 1/4 "	.06	2.16
53	"	18 "	4 1/4 "	.09 1/2	4.98
10	"	18 "	5 1/4 "	.07	.70
151	"	20 "	4 1/4 "	.08	12.02
120	"	20 "	5 1/4 "	.09	10.80
71	"	20 "	6 1/4 "	.12 1/2	9.03
76	"	25 "	4 1/4 "	.12	9.12
120	"	25 "	5 1/4 "	.14	16.80
50	"	25 "	6 1/4 "	.16	8.00
37	"	25 "	7 1/4 "	.26	9.54
64	"	30 "	5 1/4 "	.20	12.80
209	"	30 "	6 1/4 "	.25	52.25
40	"	30 "	7 1/4 "	.50	19.80
29	"	35 "	5 1/4 "	.30	8.75
18	"	35 "	6 1/4 "	.35	6.30
30	"	35 "	7 1/4 "	.69	20.75
12	"	40 "	6 1/4 "	.40	4.80
15	"	40 "	7 1/4 "	.89	13.35
1	"	45 "	6 1/4 "	.45	.45
10	"	45 "	7 1/4 "	1.17	11.75
1	"	50 "	6 1/4 "	.60	.60
5	"	50 "	7 1/4 "	1.48	7.40
55	"	55 "	6 1/4 "	.80	44.00
4	"	55 "	7 1/4 "	3.00	12.00
<u>POSTS:</u>					
591	"	7 "	3 1/4 "	.01 1/2	8.89
347	"	7 "	4 1/4 "	.02	6.94
126	"	7 "	5 1/4 "	.02 1/2	3.14
1288	"	7 "	6 1/4 "	.03	38.64
2555	"	8 "	4 1/4 "	.04	102.04
1671	"	8 "	5 1/4 "	.03	48.51
116	"	8 "	6 1/4 "	.03	3.48
13	"	8 "	7 1/4 "	.04	.52
628	"	8 "	8 1/4 "	.05	31.40
<u>TIES:</u>					
8880	"	No. 1 Hemlock		.09	799.74
2954	"	No. 2 Hemlock		.04 1/2	134.89
10049	"	No. 1 Tamarack		.08	804.56
5542	"	No. 2 Tamarack		.04	221.76
4189	"	No. 1 Cedar		.09	392.28
2384	"	No. 2 Cedar		.04	96.93
256	"	Cedar Tie Cuts		.05	12.58
<u>PULP:</u>					
1540	"	Hemlock		.01	15.40
7948	"	Spruce		.01 1/2	119.17
5285	"	Balsam		.01	52.85

Forward 3203.69

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

## STOCK OF FOREST PRODUCTS

<u>Quantity</u>		<u>Cost</u>	<u>Value</u>
<u>Piling:</u>			3203.69
	Forward		
55	Lin. Feet Tamarack	.40	.22
35	" " Cedar	.75	.26
<u>Logs:</u>			
239292	" " Hemlock	.40	958.88
12906	" " Tamarack	.40	51.60
334	" " Spruce	.40	1.33
7657	" " Cedar	.40	31.35
128	" " Basswood	.40	.51
858	" " Pine	.40	3.40
1667	" " Ash	.40	6.65
			<hr/>
			4257.89
Skidding ties		707.94	
Swamping ties		100.00	
Skidding logs		37.27	
Loading logs		58.37	
Teaming logs		1240.38	
Swamping logs		1310.83	
Sawing logs		297.45	
Scaling logs		5.60	
Foreman		299.61	
Blacksmith		82.64	
Depreciation of Horses & Equipment		195.32	
Making roads		215.22	
Barn Boss		88.92	
Stationery & Printing		6.04	
Horse Feed		489.46	
Horse medicine		4.35	
Repairs Spurs		72.56	5211.96
			<hr/>
Total			9469.85 ✓

The unit cost in some cases varies from 1908 prices on account of including the inventory from the year, 1907, in which the material was gotten out at higher prices.

Made by AWA

Figured by \_\_\_\_\_

Copied by AWA

Corrected by AWA

Examined by AWA

47

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

SIDE LEDGER TRIAL BALANCE

Nov. 30th., 1908

FURNACE GENERAL EXPENSE

15718.95

Insurance	122.12
Taxes	3395.05
Analysis	1993.36
Salaries and Other Expenses	10208.42

FURNACE MAINTENANCE

10516.54

Tracks and Yard	851.26
Trestles and Dock	269.75
Buildings	898.81
Machinery	1458.94
Tuyeres	1710.44
Relinings and Renewals	2949.60
Water Supply	42.15
Pig Iron Trucks, Coal & Ore Buggies	704.15
Stack	180.82
Stoves	591.94
Cleaning Up	858.68

FURNACE OPERATING

499542.75

Machinery	4816.70
Electric Light	449.40
Bottom Fillers	9825.39
Top Fillers	2341.80
Handling Iron	4537.74
Handling Cinder	3400.38
Weighing and Grading Iron	705.10
Founders, Keepers and Helpers	8836.81
Coal Forkers	7521.58
Casting Tools	759.66
Sand and Clay	1824.82
Filtering	189.38
Wood	472.87
Cleaning Stoves	61.59
Boiler Fuel	478.51
Ore	201087.58
Charcoal	245219.24
Limestone	2592.26
Depreciation of Equipment	1183.74
Loading Cars	494.96
Switching	123.34
Loading Vessels	2759.43
Appreciation of Inventory	139.53

48

CHEMICAL GENERAL EXPENSE NO. 1

6776.15

Insurance	1575.00
Taxes	848.81
Analysis	1341.65
Salaries and Other Expenses	3010.69

CHEMICAL MAINTENANCE NO. 1

3348.62

Tanks and Stills	1136.85
Condensers	214.99
Machinery	462.50
Boilers	516.27
Fans and Pulleys	476.43
Smoke Mains	148.22
Buildings	62.98
Water Supply	60.85
Ditch	82.23
Cleaning Up	81.87
Chute Apparatus	105.43

CHEMICAL OPERATING NO. 1

45419.48

Superintendent	562.50
Stillman	4412.05
Engineers	2739.75
Firemen	775.73
Machinery	130.33
Boilers	130.03
Fuel	2400.61
Electric Light	165.23
Lime	1281.00
Chemicals	222.37
Condensermen	1143.73
Hose	200.00
Depreciation of Improvement	24545.40
Depreciation of Inventory	2.27
Barrels	6562.05
Loadin	126.80
Switching	19.63

49

CHEMICAL GENERAL EXPENSE NO. 2

5716.12

Insurance	2250.00
Taxes	848.81
Analysis	957.88
Salaries and Other Expenses	1659.43

CHEMICAL MAINTENANCE NO. 2

2609.18

Tanks and Stills	586.15
Condensers	1186.06
Machinery	82.16
Boilers	437.96
Buildings	87.25
Water Supply	86.51
Ditch	81.86
Cleaning Up	61.23

CHEMICAL OPERATING NO. 2

33554.92

Superintendent	562.50
Stillmen	2350.66
Firemen	1580.58
Machinery	97.19
Boilers	168.23
Fuel	15628.97
Electric Light	75.63
Lime	2112.90
Chemicals	45.07
Hose	200.00
Depreciation of Improvement	6516.48
Depreciation of Inventory	2.27
Barrels	4132.80
Loading	68.94
Switching	12.70

47



50

ACETATE GENERAL EXPENSE NO. 1

2936.38

Insurance	2.04
Analysis	781.28
Salaries and Other Expenses	2153.06

ACETATE MAINTENANCE NO. 1

1992.79

Buildings	105.72
Tanks	.40
Dry Floor	807.41
Piping	104.76
Boilers	911.54
Pans	37.72
Machinery	6.27
Cleaning Up	18.97

ACETATE OPERATING NO. 1

41761.29

Contractors	4213.24
Machinery	2.90
Firemen	1547.38
Fuel	25238.70
Electric Light	10.10
Boilers	260.79
Lime	3056.10
Depreciation of Improvement	4161.24
Sacks	2534.91
Loading	284.31
Switching	38.43
Storing	413.19

51

# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT

ACETATE GENERAL EXPENSE NO. 2

1324.68

Analysis  
Salaries and Other Expenses

398.61  
926.07

ACETATE MAINTENANCE NO. 2

360.98

Buildings  
Tanks  
Piping  
Boilers  
Pans

50.66  
9.89  
50.21  
209.99  
40.23

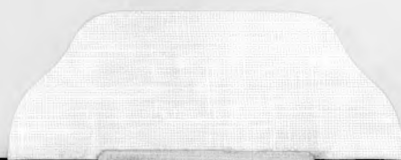
ACETATE OPERATING NO. 2

13615.62

Contractors  
Firemen  
Fuel  
Electric Light  
Boilers  
Depreciation of Improvement  
Sacks  
Loading  
Switching  
Storing

2296.43  
780.52  
7688.64  
5.31  
81.83  
968.40  
1473.81  
122.15  
17.46  
181.07

Made by com  
Figured by \_\_\_\_\_  
Copied by \_\_\_\_\_  
Corrected by \_\_\_\_\_  
Examined by \_\_\_\_\_



PIONEER IRON COMPANY,

FURNACE DEPARTMENT.

PAGE.

PAGE.

1	Comparative Cost Sheet - Pig Iron - Marquette Furnace,.....	1
2	" " " " " Carp River Furnace,.....	2
3	" " " Charcoal - Marquette Furnace,.....	3
4	" " " " " Carp River Furnace,.....	4
5	" " " Alcohol - Marquette Furnace,.....	5
6	" " " Acetate - Marquette Furnace,.....	6
7	" " " Formaldehyde, Marquette Furnace,.....	7
8	" " " C. P. Acetone - Marquette Furnace,.....	8
9	" " " Wood - Munising East Camp,.....	9
9	" " " " " West " ,.....	9
9	" " " " " Eben Camp,.....	9
10	Cost Sheet - Loading and Hauling - Munising - East Camp,.....	10
11	" " " " " " West " ,.....	11
12	" " " " " Eben Camp,.....	12
13	" " " Operating Rented Buildings,.....	13
14	Annual Labor Statement - Comparative,.....	14
15	Cost of Operating - Shops,.....	15
16	" " " Stable - Comparative,.....	16
17	" " " Laboratory (See C. C. I. Co. St. 19),.....	17
18	General Expense - Comparative - Marquette Furnace,.....	18
19	" " " " " Carp Furnace,.....	19
20	Donation Expense - Comparative,.....	20
21	Legal Expense - Comparative,.....	21
22	Fire Insurance in Force - Detailed Statement,.....	22
23	Uninsured Property,.....	23
24	Taxes - Detailed Comparative Statement,.....	24
25	Coal Used and Purchased - Comparative Statement,.....	25
26	Wood Used and Received - Marquette Furnace,.....	26
27	" " " " " Carp Furnace,.....	27
28	Salaries and Perquisites (See C. C. I. Co. Statement No.28),.....	28
29	Per Cent. of the Division of Common Expense,.....	29
30	New Construction and Improvement,.....	30
31	" " " " " ,.....	31
32	" " " " " Charged Off,.....	32
33	Stock Report - Miscellaneous - Marquette Furnace,.....	33
34	" " " " " Carp Furnace,.....	34
35	" " " Pig Iron - Marquette Furnace,.....	35
36	" " " " " Carp Furnace,.....	36
37	" " " Supplies, Equipment, Ore, Wood and Limestone,.....	37
38	" " " Forest Products,.....	38
39	Side Ledger Trial Balance - Furnace No.2,.....	39
40	" " " " " Carp Furnace,.....	40
41	" " " " " Alcohol Plant,.....	41
42	" " " " " Acetate Plant,.....	42
43	" " " " " Formaldehyde Plant,.....	43
44	" " " " " Acetone Plant,.....	44

DETAIL OF STOCK USED.

ORE	1908						1907					
	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used
Lake	39413	620	3 424	134949 98	6 580	92.1	67883	1730	3 258	221113 33	5 705	88.1
Cliff Shaft	190		4 267	836 47	041	.5	1516	573	4 408	6686 62	172	2.0
Sec.16 Hematite	260		1 965	511 02	025	.6	379	1440	1 966	746 35	019	.5
Lake Silica	945	1360	1 512	1429 79	070	2.2	323	840	1 430	462 79	012	.4
Maas	1452	1340	2 998	4355 09	212	3.4	5701	1060	3 517	20050 17	517	7.4
Negaunee	512	1170	3 525	1805 40	088	1.2						
Austin #3							1217	820	3 570	4346 13	112	1.6
Adj. of ore prices				289 34	014							
Bonus A/C ore Analysis				212 39	010					851 90	023	
Charcoal for thawing ore				736 07	036					715 46	019	
Penalty A/C ore Analysis				1350 92	065					4342 33	112	
TOTAL	42780	10	3 417	143774 63	7 011	100	77026	1983	3 254	250630 42	6 466	100
Limestone	<del>3143</del>	<del>580</del>	934	2002 11	099		4291	390	1 336	5732 26	148	
Charcoal(Bushels)	2017939		.0879	177440 87	8 658		3660750		.0790	287952 42	7 428	

Made by SMA  
 Figured by H.J.  
 Copied by H.P.  
 Corrected by H.P.  
 Examined by H.P.



PIONEER IRON COMPANY.  
Furnace Department

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1907 AND 1908.

Number of this Blast. 1st.  
Number tons made this Blast. 800508.

TONS IRON MADE 1908, 20507.  
No. Days Operated '08, 185 1/2

TONS IRON MADE 1907, 28762.  
No. Days Operated '07, 339.

GENERAL EXPENSE:

Insurance 80 00  
Taxes 5389 19  
Analysis 1617 28  
Salaries & Other Expenses 6262 09  
Watchman 168 10  
Accident

TOTAL

MAINTENANCE:

Tracks & Yards 3335 35  
Trestles & Dock 10 40  
Buildings 5324 20  
Machinery 4958 07  
Tuyeres 376 94  
Relinings & Renewals 2052 60  
Water Supply 411 79  
Pig Iron Trucks, Coal & Ore Buggies 215 00  
Stack 670 98  
Stoves 4087 98  
Cleaning Up 957 70  
Sewer 643 13

TOTAL

OPERATING:

Machinery 3707 82  
Electric Light 1184 76  
Bottom Fillers 1631 10  
Top Fillers 1486 60  
Handling Iron 3429 07  
Handling Cinder 2729 06  
Weighing & Grading Iron 624 70  
Founders, Keepers & Helpers 7176 38  
Coal Forkers 6397 20  
Casting Tools 278 86  
Sand & Clay 273 33  
Cleaning Stoves  
Boiler Fuel Tons 1908, 2207 Tons 1907, 530

TOTAL

STOCK USED:

Ore 143774 63  
Charcoal 177440 87  
Limestone 2002 11

TOTAL

Cost of Production

DEPRECIATION:

Construction 20526 00  
Equipment 3477 63  
Appreciation of Inventory 116 44

TOTAL

FREIGHT ALLOWANCE Tons 1908, 2826, 1907, 9314

LOADING & SWITCHING: 1908 1907

Loading Cars 7888 40318 Tons  
Switching " " Tons

Loading Vessels 2257 4560 Tons

GRAND TOTAL

Construction Account not sunk off  
Improvement Account not sunk off

Cost on Yard as above  
Cost to load as above

Total

Commission and expenses Cleveland Office

Total Cost

	TONS IRON MADE 1908, 20507. No. Days Operated '08, 185 1/2				TONS IRON MADE 1907, 28762. No. Days Operated '07, 339.				
	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton	
GENERAL EXPENSE:									
Insurance		80 00	80 00	004		104 49	104 49	008	
Taxes		5389 19	5389 19	263		4717 98	4717 98	122	
Analysis	1617 28	569 25	2186 53	107	1975 62	767 04	2732 66	071	
Salaries & Other Expenses	6262 09	3227 94	9490 03	462	6913 91	3376 21	10290 12	265	
Watchman	168 10		168 10	008					
Accident						97 50	97 50	002	
TOTAL	8047 47	9200 38	17318 85	844	8899 53	9053 22	17942 75	463	
MAINTENANCE:									
Tracks & Yards	3335 35	1147 36	4482 73	218	1113 04	230 70	1343 74	035	
Trestles & Dock	10 40	41 72	52 12	003	136 60	372 00	509 50	013	
Buildings	5324 20	7069 46	12393 66	648	710 15	442 92	1153 07	030	
Machinery	4958 07	3459 51	8416 58	410	810 96	1374 57	2185 53	056	
Tuyeres	376 94	808 60	1185 54	058	395 64	885 41	1281 05	033	
Relinings & Renewals		2052 60	2052 60	100		3671 80	3671 80	100	
Water Supply	411 79	35 16	446 95	022	123 67	78 30	201 97	005	
Pig Iron Trucks, Coal & Ore Buggies	215 00	127 78	342 78	017	220 60	58 73	279 33	007	
Stack	670 98	671 11	1342 09	066	69 58	94 16	163 74	004	
Stoves	4087 98	2948 48	7036 46	342	1045 61	180 49	1226 10	032	
Cleaning Up	957 70		957 70	047	915 96		915 96	024	
Sewer	643 13	352 29	995 42	049					
TOTAL	21001 73	10613 09	40614 82	1 930	5541 81	7589 98	13131 79	339	
OPERATING:									
Machinery	3707 82	573 81	4281 63	209	4130 23	819 41	4949 64	128	
Electric Light	1184 76	485 31	1629 07	079	798 77	378 36	1177 13	030	
Bottom Fillers	1631 10	37 12	1668 22	081	3050 32	104 07	2154 39	082	
Top Fillers	1486 60		1486 60	070	3073 29		3073 29	079	
Handling Iron	3429 07	179 48	3609 15	176	6091 13	16 98	6108 11	158	
Handling Cinder	2729 06	379 02	3108 08	152	5801 09	579 67	6380 76	165	
Weighing & Grading Iron	624 70		624 70	030	693 55		693 55	018	
Founders, Keepers & Helpers	7176 38		7176 38	350	10744 61		10744 61	277	
Coal Forkers	6397 20	191 21	6588 41	320	12278 50	203 24	13081 74	327	
Casting Tools	278 86	690 23	969 09	047	339 78	662 49	1052 27	027	
Sand & Clay		811 24	811 24	040		1181 94	1181 94	030	
Cleaning Stoves	273 33	72 00	345 33	017	695 78	324 08	959 86	025	
Boiler Fuel Tons 1908, 2207 Tons 1907, 530	1314 75	7208 39	8523 14	416	245 78	1451 50	1697 28	044	
TOTAL	30134 23	10627 81	40762 04	1 987	48532 82	5721 74	54254 57	1 400	
STOCK USED:									
Ore		143774 63	143774 63	7 011		250630 42	250630 42	6 466	
Charcoal		177440 87	177440 87	8 653		287952 42	287952 42	7 423	
Limestone		2002 11	2002 11	009		5732 26	5732 26	148	
TOTAL		323217 61	323217 61	15 763		543315 10	544315 10	14 042	
Cost of Production		50183 43	562724 89	421908 32	20 574	62964 17	566680 04	629644 21	16 244
DEPRECIATION:									
Construction		20526 00	20526 00	1 001		38718 00	38718 00	939	
Equipment		3477 63	3477 63	170		5931 21	5931 21	153	
Appreciation of Inventory		116 44	116 44	006		113 21	113 21	003	
TOTAL		23887 19	23887 19	1 165		44830 00	44536 00	1 149	
FREIGHT ALLOWANCE Tons 1908, 2826, 1907, 9314									
LOADING & SWITCHING: 1908 1907									
Loading Cars 7888 40318 Tons									
Switching " " Tons									
Loading Vessels 2257 4560 Tons									
GRAND TOTAL	59346 12	392935 32	452281 44	22 055	63564 44	618757 58	632322 02	17 603	
Construction Account not sunk off			230431 70				251850 17		
Improvement Account not sunk off			37325 53						
SUMMARY OF COST PER TON									
	On Yard	On Cars	On Vessel	On Yard	On Cars	On Vessel	YIELD		
Cost on Yard as above	21 739	21 739	21 739	17 393	17 393	17 393	1908	1907	
Cost to load as above		106	554		091	470	478 Ore	508	
Total	21 739	21 845	22 293	17 393	17 484	17 863	98 1/2 Coal	94	
Commission and expenses Cleveland Office	350	350	350	350	350	350	165 Flux	248	
Total Cost	22 089	22 195	22 643	17 743	17 834	18 213	Cost per ton for labor.		
							2 893	1 640	

REMARKS:

General Expense (Salaries & Other Expenses) charged 24 3/4% of General Office and 54% of Marquette Office. Year 1908.  
General Expense (Salaries & Other Expenses) charged 29 1/4% of General Office and 65% of Marquette Office. Year 1907.

DETAIL OF STOCK USED

O R E S	1908					1907						
	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used
Lake							23613-	1807	3 288	77665 55	5 610	85.4
Maas							2277-	820	3 515	8008 53	579	8.2
Lake Silica							502-	980	1 452	729 50	053	1.8
Austin #3							185-	2040	3 576	665 33	048	.7
Negaunee							1049-	940	3 514	3687 67	267	3.8
Sec.16 Hematite							29-	460	1 981	57 97	004	.1
Bonuses a/c Years Analysis										495 14	036	
Penalties a/c Years Analysis										1323 60	095	
TOTAL							27658-	327	3 253	89986 09	6 502	100
Limestone							1729-	1422	1 164	2012 90	145	
Charcoal (Bushels)							1235809		0840	104085 71	7 518	

Made by Jura  
 Figured by Jura  
 Copied by Jura  
 Corrected by Jura  
 Examined by Jura



# PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.

## COMPARATIVE CHARCOAL COST SHEET.

For the years of 1908 and 1907

ACCOUNT	1908			1907		
	BUSHEL	AMOUNT	Cost per Bus.	BUSHEL	AMOUNT	Cost per Bus.
<b>PIONEER FURNACE KILNS—</b>	<b>1874769</b>			<b>3674669</b>		
Wood,	140868	72	0751	251209	60	0684
Loading from Yard,	63	50	0000	69	04	0000
Packing,	8370	42	0045	7643	38	0021
Kiln Tending,	2549	42	0014	1821	19	0005
Taking out Breeze,	304	42	0002	300	91	0001
Whitewashing,	718	96	0004	920	89	0002
Cleaning out Kilns,	670	83	0004	573	76	0002
Depreciation,	4686	94	0025	9086	68	0025
Repairs,	1650	25	0009	520	54	0002
Breezeman,	952	54	0005	1730	94	0004
Contractor,	524	17	0002	15171	03	0041
	10	20	0000			
<b>Total,</b>	<b>161370</b>	<b>37</b>	<b>0861</b>	<b>289047</b>	<b>96</b>	<b>0787</b>
Average yield per cord,			42 <sup>4</sup>			42 <sup>2</sup>
Cords Carbonized,			44232			85605
Cords Carbonized per Kiln,			514			995
Bushels per Kiln,			21800			42729
<b>FROM JOBBERS—Algoma Steel Co.,</b>	<b>139478</b>			<b>17235</b>		
Coal,	10810	50	0775	1292	63	0750
Freight,	2564	20	0184	263	29	0153
<b>General Expense,</b>	<b>183</b>	<b>75</b>	<b>0013</b>			
<b>Duty,</b>	<b>2092</b>	<b>00</b>	<b>0150</b>	<b>258</b>	<b>51</b>	<b>0150</b>
<b>Total,</b>	<b>15650</b>	<b>45</b>	<b>1122</b>	<b>1814</b>	<b>43</b>	<b>1053</b>
Refund a/c short weight	201	15	0015			
<b>Grand Total,</b>	<b>2014247</b>	<b>176819</b>	<b>67</b>	<b>3691904</b>	<b>290862</b>	<b>39</b>
			<b>0878</b>			<b>0788</b>

REMARKS:

(15)

Made by com  
 Figured by com  
 Copied by com  
 Corrected by com  
 Examined by com



# PIONEER IRON COMPANY.

**Gary** FURNACE

**COMPARATIVE  
CHARCOAL COST SHEET.**

For the **years** of 1908 and 1907

ACCOUNT	1908			1907		
	BUSHEL	AMOUNT	Cost per Bus.	BUSHEL	AMOUNT	Cost per Bus.
PIONEER FURNACE KILNS—	710			1076197		
Wood,		57 57	0811		69540 37	0646
Loading from Yard,					34 00	0000
Packing,		22 00	0310		7911 68	0074
Kiln Tending,		134 24	1891		3555 13	0033
Taking out Breeze,					641 40	0006
Whitewashing,					1326 30	0012
Cleaning out Kilns,					244 16	0002
Depreciation,		1 78	0025		2690 50	0025
Repairs,					1716 98	0016
Breezeman,					50 70	0001
Contractor,						
Total,	710	215 59	3037		87711 22	0815
Average yield per cord,			39 <sup>4</sup>			44 <sup>2</sup>
Cords Carbonized,			18			24339 <sup>1</sup> / <sub>2</sub>
Cords Carbonized per Kiln,						588
Bushels per Kiln,						25028
FROM JOBBERS— <b>Algona Steel Co.,</b>				162997		
Coal,					12894 17	0791
Freight,					2485 96	0152
<b>Duty,</b>					2579 18	0158
General Expense,		40 00			77 70	0005
<b>Legal,</b>					254 87	0016
Total,		40 00			18291 88	1122
<b>Grand Total,</b>	710	255 59	3601	1239194	106003 10	0858

REMARKS:

(S)

Made by COM  
 Figured by COM  
 Copied by COM  
 Corrected by COM  
 Examined by COM



PIONEER IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR THE YEARS 1908 AND 1907.

	Gallons produced 1908, 152540 1/2					Gallons produced 1907, 212853				
	No. Days Operated 1908, 179					No. Days Operated 1907, 258				
	Labor	Supplies	Total	Cost Per Gal.		Labor	Supplies	Total	Cost Per Gal.	
<b>GENERAL EXPENSE:</b>										
Insurance		5199 96	5199 96	034		5199 96	5199 96	024		
Taxes		5889 19	5889 19	035		4717 98	4717 98	022		
Analysis	1553 83	714 83	2268 66	015	898 27	295 22	1198 49	006		
Salaries & Other Expenses	3157 56	1904 53	5062 09	034	2662 67	2126 83	4789 50	023		
Watchman	207 55		207 55	001						
<b>Total</b>	<b>4918 04</b>	<b>13208 51</b>	<b>18127 45</b>	<b>119</b>	<b>3560 94</b>	<b>12339 09</b>	<b>15900 93</b>	<b>075</b>		
<b>MAINTENANCE:</b>										
Tanks & Stilla	3521 70	4774 89	8296 59	054	2321 26	1734 78	4056 04	019		
Condensers	1562 47	132 24	1694 71	011	96 70	141 52	238 22	001		
Machinery	2747 41	2797 48	5544 89	036	412 48	449 77	862 25	004		
Boilers	1871 66	1212 91	3084 57	017	809 91	777 47	1587 38	008		
Fans & Pulleys	40 71	92 34	133 05	001	7 74	26 81	34 55	001		
Smoke Mains	1445 00	119 18	1564 18	011	232 69	54 23	286 92	001		
Buildings	572 30	288 10	860 40	005	158 10	9 71	167 81	001		
Ditch					89 15		89 15	000		
Cleaning Up					86 90		86 90	000		
<b>Total</b>	<b>11261 25</b>	<b>9412 14</b>	<b>20673 39</b>	<b>135</b>	<b>4214 93</b>	<b>3254 29</b>	<b>7469 22</b>	<b>035</b>		
<b>OPERATING:</b>										
Superintendent	1500 00		1500 00	010	1500 00		1500 00	007		
Stillmen	4453 38	27 07	4480 45	029	8321 48	102 83	8424 31	040		
Engineers	1438 91	45	1483 36	009	1738 81		1738 81	008		
Firemen	1198 76	61	1199 37	008	1316 47		1316 47	006		
Machinery	1748 42	473 32	2221 75	015	2792 09	611 79	3403 88	016		
Boilers	470 34	124 16	594 50	004	303 06	120 22	423 28	002		
Fuel Tons 1908 1907	461 45	3381 75	3843 20	025	529 68	3106 00	3635 68	017		
Electric Light	436 48	311 25	747 73	005	309 15	308 12	617 27	003		
Lime		4708 40	4708 40	031		7871 05	7871 05	037		
Chemicals		963 34	963 34	006		1607 52	1607 52	008		
Filter	876 24	252 69	1128 93	007	889 14	469 05	1358 19	006		
Hose		271 46	271 46	002						
Freight on Pkgs. Ret.		95 78	95 78	001						
Freight on Alcohol		123 81	123 81	001						
<b>Total</b>	<b>12583 98</b>	<b>10729 10</b>	<b>23313 08</b>	<b>153</b>	<b>17699 88</b>	<b>14196 58</b>	<b>31896 46</b>	<b>150</b>		
Cost of production	23764 17	33349 75	62113 92	407	25475 75	29790 86	55266 61	260		
<b>DEPRECIATION:</b>										
Construction		43380 00	43380 00	285		43380 00	43380 00	204		
Improvement		660 00	660 00	004		938 11	938 11	004		
Appreciation of Inventory		40 21	40 21	000		6 10	6 10	000		
<b>Total</b>		<b>43999 79</b>	<b>43999 79</b>	<b>289</b>		<b>44312 01</b>	<b>44312 01</b>	<b>208</b>		
<b>Total Cost</b>	<b>28764 17</b>	<b>77349 54</b>	<b>106113 71</b>	<b>696</b>	<b>25475 75</b>	<b>74102 87</b>	<b>99572 62</b>	<b>468</b>		
<b>LOADING &amp; SWITCHING:</b>										
Barrels 1908 1907	89852 148179	Gals.	2988 38	2988 38	033	6484 40	6484 40	044		
Loading " " " 94		"	116 49	210 50	002	156 38	338 78	002		
Switching " " " 5 30		"	8 59	13 89	000	10 56	16 32	000		
<b>Total</b>	<b>99 31</b>	<b>3113 46</b>	<b>3212 77</b>	<b>021</b>	<b>166 94</b>	<b>6672 56</b>	<b>6839 50</b>	<b>032</b>		
<b>Total Cost on Cars</b>	<b>28863 48</b>	<b>80463 00</b>	<b>109326 48</b>	<b>717</b>	<b>25642 69</b>	<b>80775 43</b>	<b>106418 13</b>	<b>500</b>		
Construction Account Not Sunk Off			200792 66				241172 66			
Improvement Account Not Sunk Off			6589 35				3775 64			
Smoke Received From 32515 Cords			4 69				2 57			
Smoke Received From 82957 Cords										

REMARKS:

General Expense (Salaries & Other Expenses) charged 27% of General Office and 12.15% of Marquette Office, 1908.  
General Expense (Salaries & Other Expenses) charged 11% of General Office and 25% of Marquette Office, 1907.

Made by FW  
Figured by FW  
Copied by FW  
Corrected by FW  
Examined by FW

PIONEER IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF GRAY ACETATE COST SHEETS FOR 1908 AND 1907.

1908 & 1907

POUNDS PRODUCED 1908, 2704338  
Average Per Day 1908, 15815  
No. Days Operated 1908, 171

POUNDS PRODUCED 1907, 5328828  
Average Per Day 1907, 15270  
No. Days Operated 1907, 349

	Labor	Supplies	Total	Cost Per Gwt.	Labor	Supplies	Total	Cost Per Gwt.
<b>GENERAL EXPENSE:</b>								
Analysis	553 64	234 04	777 68	028	304 78	63 38	368 16	007
Salaries & Other Expenses	1169 88	470 39	1640 27	061	1122 39	578 13	1701 52	032
<b>Total</b>	<b>1723 52</b>	<b>694 43</b>	<b>2417 95</b>	<b>089</b>	<b>1428 17</b>	<b>641 51</b>	<b>2069 68</b>	<b>039</b>
<b>MAINTENANCE:</b>								
Buildings	95 30	20 54	115 84	004	233 39	256 65	490 04	009
Tanks	72 71	20	72 91	003	3 35	06	3 41	000
Conveyer	77 65	7 53	85 18	003	97 73	35 16	132 89	003
Dry Floor	112 95	54	113 49	004	56 05	1 58	57 63	001
Piping	136 13	101 46	237 59	010	106 45	54 09	160 54	003
Boilers	562 39	433 03	995 42	037	104 30	173 72	283 02	006
Lillie Apparatus	243 95	56 11	300 06	011	182 79	146 91	329 70	006
Pans	154 13	26 80	180 93	007	95 24	84 53	179 77	003
Machinery	1040 61	708 37	1749 58	065	164 60	109 26	273 86	005
<b>Total</b>	<b>2545 82</b>	<b>1355 18</b>	<b>3901 00</b>	<b>144</b>	<b>1043 90</b>	<b>866 96</b>	<b>1910 86</b>	<b>036</b>
<b>OPERATING:</b>								
Machinery	225 27	141 38	366 65	014	286 76	191 78	478 54	009
Skimming	995 38	08	995 46	037	1919 83	2 11	1921 94	036
Engineers	319 80	10	319 90	012	386 81	11 20	398 01	007
Firemen	266 42	14	266 56	010	291 94		291 94	005
Fuel, Tons	1762 85	14649 11	16417 96	607	2701 60	15330 63	18032 23	339
Electric Light	88 16	78 13	166 29	006	64 79	73 53	138 32	003
Boilers	120 23	34 96	155 19	006	70 35	46 80	117 15	002
Pumps		8 12	8 12	000		2 53	2 53	000
Firing Generator	918 64		918 64	034	1864 11		1864 11	035
Rakers	1026 67	18 08	1044 75	039	1947 83	21 63	1969 46	037
Lillie Apparatus	758 25		758 25	028	1640 00		1640 00	030
Weighing	469 19	2 60	471 79	017	666 52		666 52	013
<b>Total</b>	<b>6256 86</b>	<b>14922 70</b>	<b>21389 56</b>	<b>810</b>	<b>11840 54</b>	<b>15680 21</b>	<b>27520 75</b>	<b>516</b>
<b>Cost of Production</b>	<b>11226 20</b>	<b>16982 31</b>	<b>28208 51</b>	<b>1 043</b>	<b>14312 61</b>	<b>17182 68</b>	<b>31501 29</b>	<b>591</b>
<b>DEPRECIATION:</b>								
Construction		3617 52	3617 52	134		3618 12	3618 12	068
Improvement		2629 32	2629 32	097		4805 87	4805 87	090
<b>Total</b>		<b>6246 84</b>	<b>6246 84</b>	<b>231</b>		<b>8423 99</b>	<b>8423 99</b>	<b>158</b>
<b>Total Cost</b>	<b>11226 20</b>	<b>23229 15</b>	<b>34455 35</b>	<b>1 274</b>	<b>14312 61</b>	<b>25612 67</b>	<b>39025 28</b>	<b>749</b>
<b>LOADING &amp; SWITCHING:</b>								
	1908	1907						
Sacks	2704338	5328828 Lbs	3001 47	3001 47	111	5526 17	5526 17	104
Loading	2502686	4261313 Lbs	234 24	378 40	015	436 83	538 03	013
Switching	"	"	13 44	22 15	001	23 80	37 19	001
Storing	2704338	5328828	34 45	34 45	001	131 36	161 36	003
<b>Total</b>			<b>332 13</b>	<b>3104 34</b>	<b>127</b>	<b>591 99</b>	<b>6262 75</b>	<b>118</b>
<b>Total Cost On Cars</b>	<b>11558 33</b>	<b>26333 49</b>	<b>37891 32</b>	<b>1 401</b>	<b>14904 60</b>	<b>31233 43</b>	<b>46182 03</b>	<b>867</b>
Construction Not Sunk Off			19605 92				23223 50	
Improvement Account Not Sunk Off			15590 50				18106 65	
Yield per cord of wood			351 96	48	77 8			64 2
Smoke Received from 24746 Cords, 1908.								
Smoke Received from 82957 Cords, 1907.								

REMARKS:

General Expense (Salaries and Other Expenses) charged 4.95% of General Office and 11% of Marquette Office, 1908.  
General Expense (Salaries and Other Expenses) charged 2 1/2% General Office and 5% Marquette Office, 1907.

Made by S.W.  
Figured by \_\_\_\_\_  
Copied by A.P.  
Corrected by \_\_\_\_\_  
Examined by \_\_\_\_\_

PIONEER IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENTS OF FORMALDEHYDE COST SHEETS FOR 1908 AND 1907.

	POUNDS PRODUCED 1908, 781340 No. Days Operated '08, 274				POUNDS PRODUCED 1907, 776873. No. Days Operated '07, 350			
	Labor	Supplies	Total	Cost Per Pound	Labor	Supplies	Total	Cost Per Pound
<b>GENERAL EXPENSE:</b>								
Analysis	264 19	123 94	388 13	001	287 03	58 42	345 45	001
Salaries	514 18	225 77	739 95	001	488 67	300 68	789 35	001
<b>Total</b>	<b>778 37</b>	<b>349 71</b>	<b>1128 08</b>	<b>002</b>	<b>775 70</b>	<b>359 10</b>	<b>1134 80</b>	<b>002</b>
<b>MAINTENANCE:</b>								
Tanks & Stills	550 72	1347 21	1897 93	002	330 16	944 06	1274 22	002
Machinery	79 61	21 71	101 32	000	44 28	74 81	119 09	000
Boilers	185 01	150 35	335 36	001	46 67	73 25	119 92	000
Buildings	24 15	12 29	36 44	000	110 95	176 98	287 93	000
<b>Total</b>	<b>839 49</b>	<b>1531 56</b>	<b>2371 05</b>	<b>003</b>	<b>532 06</b>	<b>1269 10</b>	<b>1801 16</b>	<b>002</b>
<b>OPERATING:</b>								
Stillmen	1849 40	7 46	1856 86	002	1739 07	68	1739 75	002
Engineers	159 88	05	159 93	000	193 44	5 61	199 05	000
Fireman	133 23	06	133 29	000	145 98	83	146 81	000
Machinery	112 64	37 51	200 15	000	141 18	107 18	248 36	001
Boilers	56 59	11 20	67 79	000	35 20	13 38	48 58	000
Fuel, Tons <sup>1908</sup> 1013, <sup>1907</sup> 684	494 18	3166 31	3660 49	005	370 41	2050 12	2420 53	003
Electric Light	87 26	40,54	127 80	000	70 62	41 42	112 04	000
Copper Netting		803 50	803 50	001		708 60	708 60	001
Alcohol 100150 Gals, 83596		36530 58	36530 58	046		27364 72	27364 72	036
Unloading Alcohol	26 38		26 38	000				
Freight on Alcohol		266 74	266 74	001				
Expense on Pkgs, Ret.		183 91	183 91	001				
<b>Total</b>	<b>2920 06</b>	<b>41097 86</b>	<b>44017 92</b>	<b>056</b>	<b>2695 90</b>	<b>30792 54</b>	<b>33488 44</b>	<b>043</b>
<b>Cost of Production</b>	<b>4537 92</b>	<b>42979 13</b>	<b>47517 05</b>	<b>061</b>	<b>4003 66</b>	<b>32420 74</b>	<b>36424 40</b>	<b>047</b>
<b>DEPRECIATION:</b>								
Construction		2820 00	2820 00	003		2820 00	2820 00	004
Improvement		2095 56	2095 56	003				
<b>Total</b>		<b>4915 56</b>	<b>4915 56</b>	<b>006</b>		<b>2820 00</b>	<b>2820 00</b>	<b>004</b>
<b>Total Cost</b>	<b>4537 92</b>	<b>47894 69</b>	<b>52432 61</b>	<b>067</b>	<b>4003 66</b>	<b>35240 74</b>	<b>39244 40</b>	<b>051</b>
<b>LOADING &amp; SWITCHING:</b>								
Packages <sup>1908</sup> 780829 <sup>1907</sup> 800001 Lbs		5696 05	5696 05	007		5095 14	5095 14	006
Loading	90 21	134 76	224 97	000	117 60	158 75	276 35	000
Switching	6 94	11 59	18 53	000	6 31	3 54	10 35	000
<b>Total</b>	<b>97 15</b>	<b>5842 40</b>	<b>5939 55</b>	<b>008</b>	<b>124 41</b>	<b>5257 43</b>	<b>5381 84</b>	<b>007</b>
<b>Total Cost on Cars</b>	<b>4635 07</b>	<b>53737 09</b>	<b>58372 16</b>	<b>075</b>	<b>4128 07</b>	<b>40498 17</b>	<b>44626 24</b>	<b>058</b>
Yield per gallon of Alcohol				736 X				329 X
Construction Account Not Sunk Off			14134 84				16954 84	
Improvement Account Not Sunk Off			10504 12				12599 88	

REMARKS:

General Expense (Salaries & Other Expenses) charged 2 1/2% of General Office and 5% of Marquette Office for the year 1907.  
General Expense (Salaries & Other Expenses) charged 1.8% of General Office and 4% of Marquette Office for the year 1908.

Made by SWA  
Figured by SWA  
Copied by SWA  
Corrected by SWA  
Estimated by SWA

Cost for 1908 high as compared with 1907 due to using 329 tons more of fuel at an increase cost in 1908 also to making a stronger solution of formaldehyde which increased the alcohol used and decreased the yield.  
% of formaldehyde in 1907 was 37 1/2% by weight formaldehyde containing 1/4% of alcohol  
" " " " " 1908 " 37 1/2% to 38 1/2% by weight

P I O N E E R I R O N C O M P A N Y  
Furnace Department

COMPARATIVE STATEMENT OF ACETONE COST SHEETS FOR 1908 AND 1907.

	POUNDS PRODUCED 1908, 270181 No. Days Operated 1908, 291				POUNDS PRODUCED 1907, 19095 No. Days Operated 1907, 29			
	Labor	Supplies	Total	Cost Per Lb.	Labor	Supplies	Total	Cost Per Lb.
<b>GENERAL EXPENSE:</b>								
Analysis	96 50	35 53	132 03	001				
Salaries & Other Expenses	374 69	266 84	641 53	002				
<b>Total</b>	<b>471 19</b>	<b>302 37</b>	<b>773 56</b>	<b>003</b>				
<b>MAINTENANCE:</b>								
Tanks & Stills	6 89	9 10	15 99	000		50	50	000
Machinery	105 94	27 77	133 71	001	33 92	5 16	39 08	002
Pans	375 48	1243 09	1618 57	006	180 23	325 76	505 98	026
Boilers	30 04	15 77	45 81	000				
Buildings	49 08	13 80	62 88	000	21 37		21 37	001
Conveyors	13 22	24	13 46	000	9 31		9 31	001
Ovens	95 20	107 96	203 16	001	59 37		59 37	003
Piping	93 55	123 25	215 80	001	1 32	10 17	11 49	001
Motors					5 29	70	5 99	000
Pumps	19 49	20	19 69	000				
Dust Catcher	276 54	213 64	490 18	002				
<b>Total</b>	<b>1065 43</b>	<b>1753 82</b>	<b>2819 25</b>	<b>011</b>	<b>310 80</b>	<b>342 29</b>	<b>653 09</b>	<b>034</b>
<b>OPERATING:</b>								
Freight on Pkgs. Returned		232 21	232 21	001				
Unloading Acetate	26 79		26 79	000				
Firemen	2500 44	23 06	2523 50	009	90 42	45	90 87	005
Machinery		96 21	96 21	000		3 34	3 34	000
Fuel, Tons (1908, 1907)	404 91	4469 60	4874 51	013	37 19	286 70	323 89	017
Electric Light		21 75	21 75	000		6 29	6 29	001
Freight on Acetate Used		633 44	633 44	003				
Acetate		24058 24	24058 24	089		3038 89	3038 89	159
Pumps		9 83	9 83	000				
Refuse	163 96	57 00	220 96	001				
Hose		17 00	17 00	000				
<b>Total</b>	<b>3096 10</b>	<b>29618 34</b>	<b>32714 44</b>	<b>121</b>	<b>127 61</b>	<b>3335 67</b>	<b>3463 28</b>	<b>182</b>
Cost of Production	4632 72	31674 53	36307 25	135	438 41	3677 96	4116 37	216
<b>DEPRECIATION:</b>								
Improvement		1462 64	1462 64	005				
<b>Total Cost</b>	<b>4632 72</b>	<b>33138 17</b>	<b>37770 89</b>	<b>140</b>	<b>438 41</b>	<b>3677 96</b>	<b>4116 37</b>	<b>216</b>
<b>LOADING &amp; SWITCHING:</b>								
1908								
Packages 236495 Lbs.		5 85	5 85	000				
Loading "	66 01	43 48	109 49	000				
Switching "	3 23	8 95	12 18	000				
<b>Total</b>	<b>69 24</b>	<b>58 28</b>	<b>127.52</b>	<b>000</b>				
<b>TOTAL COST ON CARS</b>	<b>4701 96</b>	<b>33196 45</b>	<b>37898 41</b>	<b>140</b>	<b>438 41</b>	<b>3677 96</b>	<b>4116 37</b>	<b>216</b>
Improvement Account Not Sunk Off			16173 03				14626 67	
Yield of Acetone per cwt of Acetate				15 <sup>80</sup>				7 <sup>88</sup>
Acetate Used	1908	1907						
Lbs.	259000	150440						
Price	.99	2.02						
	447930	1,521						
	998716	1.47						
	1705646	1.41						

**REMARKS:**

General Expense (Salaries & Other Expenses) charged 1.8% of General Office and 4% of Marquette Office.

Made by JWA  
 Figured by \_\_\_\_\_  
 Copied by HS  
 Corrected by JWA  
 Examined by CSW



# PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

COMPARATIVE  
WOOD COST SHEET.

For the years 1908 and 1907.

	MUNISING EAST				MUNISING WEST				EBEN			
	AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD	
	1908	1907	1908	1907	1908	1907	1908	1907	1908	1907	1908	1907
CORDS PRODUCED 1908	83277½ ✓				55680½ ✓				2191½ ✓			
CORDS PRODUCED 1907	43014½				44405½				10073½			
Chopping,	73817 02	49879 68	886	1 160	47777 03	51169 30	858	1 152	1977 81	11557 00	.902	1 148
Stumpage,	11084 25	7244 29	133	1 169	9059 83	7594 74	163	1 171	308 86	1200 47	141	1 119
Foreman and Measuring,	1702 02	1447 29	020	034	1143 91	1179 94	021	027	75 01	193 59	034	019
Traveling Expense,	237 18	210 40	003	005	222 20	233 92	004	005	187 69	198 07	086	020
Exchange,	46 76	55 70	001	001	39 05	60 50	000	001	7 36	13 90	003	001
General Expense,	690 00	1381 43	008	032	1015 69	1443 64	018	033	218 78	792 84	100	079
Fire Protection,	1186 93	32 30	014	001	85 80		002		2 72		001	
Superintendent,	961 20	948 66	012	022	754 88	958 44	014	022	33 92	210 40	016	021
Taxes,	1234 39	1556 07	015	036	3359 41	1092 92	060	025	163 32	259 72	074	026
Spurs and Barns,	2632 86	2788 51	032	064	213 84	3483 18	004	078		755 15		074
Keep of horses	4069 68		049		2743 30		049		243 17		111	
<b>Total Cost at Stump,</b>	<b>97662 29</b>	<b>65544 33</b>	<b>1 173</b>	<b>1 524</b>	<b>66414 94</b>	<b>67216 58</b>	<b>1 193</b>	<b>1 514</b>	<b>3218 64</b>	<b>15181 14</b>	<b>1.468</b>	<b>1 507</b>
Inventory Cost per Cord November 30th, 1907	1.521 ✓				1 279				1.409 ✓			
Cost per Cord 12 Months, Year 1907	1.524				1 152				1.507			
CORDS SHIPPED 1908	14595½ #				22803½ #				10424½ #			
CORDS SHIPPED 1907	51265				40535½				12683½			
	AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD	
	1908	1907	1908	1907	1908	1907	1908	1907	1908	1907	1908	1907
Cost of Wood at Stump,	22198 98	67907 58	1 521 ✓	1 325 ✓	34615 33	53767 19	1 518 ✓	1 326 ✓	14688 12	15233 17	1.409 ✓	1 201 ✓
Hauling and Loading,	18746 62	53905 75	1 284 ✓	1 052	25189 07	48319 90	1 105 ✓	1 192	11146 19	14891 69	1 069 ✓	1 174 ✓
Freight,	7297 76	25632 51	500	500	11401 63	20268 51	500	500	4869 51	6341 83	500	500
Switching in Furnace Yard,	368 15	1086 54	028	026	529 51	705 83	027	024	191 28	287 84	024	025
Piling in Furnace Yard.	410 65	124 34	303	224	653 02	131 49	307	243	438 40	13 58	308	177
<b>Total Cost at Furnace,</b>	<b>49022 16</b>	<b>148656 72</b>	<b>3 359</b>	<b>2 900</b>	<b>72388 56</b>	<b>123192 92</b>	<b>3 175</b>	<b>3 039</b>	<b>31333 50</b>	<b>36768 11</b>	<b>3.006</b>	<b>2 898</b>
Average Cost per Cord from all sources on yard,	2.969				2 921							
Average Cost per Cord from all sources on trestle,	3.012				2 952							

REMARKS:  
 Made by CDW  
 Figured by CDW  
 Copied by CDW  
 Corrected by CDW  
 Examined by CDW

# Shipped to Furnace 14595½  
 Burned at Camp 600  
 15195½ ✓

# Shipped to furnace 22803½  
 Burned at camp 36  
 22839½ ✓

# Shipped to Marquette 9739  
 " " Gladstone 685½  
 10424½ ✓



# PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

19

Cost of Loading and Hauling MUNISNG EAST Wood, YEAR 190 8

Loaded and Hauled this Month \_\_\_\_\_ Cords.  
Loaded and Hauled 12 Months 14595 1/2 Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	3678 91	13 42	3692 33			253
Swampers	2873 71	43 61	2917 32			200
Car Loaders	1507 29	10 73	1518 02			104
Foreman	481 10		481 10			033
TOTAL,	8541 01 ✓	67 76 ✓	8608 77			590 ✓
<b>Roads—</b>						
Making and Maintaining	2598 83	19 25	2618 08			179
TOTAL,	2598 83 ✓	19 25 ✓	2618 08 ✓			179 ✓
<b>Barn—</b>						
Hay	1 90	1268 77	1270 67			087
Oats	3 40	2537 59	2540 99			174
Feed and Bran		4 80	4 80			000
Shoeing and Shoes	217 29	66 89	284 18			019
Oil and Grease		22 75	22 75			002
Horse Medicine		21 99	21 99			002
Barn Boss	387 95	1 32	389 27			027
TOTAL,	610 54 ✓	3924 11 ✓	4534 65 ✓			311 ✓
<b>Repairs—WELL</b>						
Wagons and Drays	106 57		106 57			007
Sleighs	140 09	280 27	420 36			029
Harness		93 12	93 12			006
Buildings	6 80	60 65	67 45			005
TOTAL,	264 96 ✓	434 04	699 00 ✓			048 ✓
COST TO LOAD	12015 34 ✓	4445 16	16460 50 ✓			1 128 ✓
<b>Miscellaneous—</b>						
Depreciation		1702 30	1702 30			117
Moving Equipment		583 82	583 82			039
<b>Spurs &amp; Barns</b>		2286 12	2286 12 ✓			156 ✓
TOTAL,						
Total Cost on Cars 1 Month						
Total Cost on Cars 12 Months	12015 34 ✓	6731 28	18746 62 ✓			1 284 X

**Remarks**

*14595 1/2 shipped  
600 burned at stump during month for us  
15195 1/2*

Made by \_\_\_\_\_  
Figured by \_\_\_\_\_  
Copied by \_\_\_\_\_  
Corrected by \_\_\_\_\_  
Examined by \_\_\_\_\_



# PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

Cost of Loading and Hauling..... EBEN ..... Wood, ..... YEAR ..... 190 8

Loaded and Hauled this Month..... Cords.  
Loaded and Hauled 12 Months..... 10424 1/2 Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	2380 98	8 31	2389 29			229
Swampers	1604 52	20 91	1625 43			156
Car Loaders	706 26	8 40	714 66			069
Foreman	420 00	10	420 10			040
TOTAL,	5111 76 ✓	37 72 ✓	5149 48 ✓			494 ✓
<b>Roads—</b>						
Making and Maintaining	1573 37		1573 37			151
TOTAL,	1573 37 ✓		1573 37 ✓			151 ✓
<b>Barn—</b>						
Hay	4 76	867 72	872 48			084
Oats	6 12	1745 06	1751 18			168
Feed and Bran		14 50	14 50			001
Shoeing and Shoes	160 50	19 54	180 04			017
Oil and Grease						
Horse Medicine	2 70	26 45	29 15			003
Barn Boss	255 29		255 29			025
TOTAL,	429 37 ✓	2673 27 ✓	3102 64 ✓			298 ✓
<b>Repairs—</b>						
Wagons and Drays	40 50		40 50			004
Sleighs	120 00	15 04	135 04			013
Harness		12 11	12 11			001
Buildings		1 16	1 16			000
TOTAL,	160 50 ✓	28 31 ✓	188 81 ✓			018 ✓
COST TO LOAD	7275 00 ✓	2739 30 ✓	10014 30 ✓			961 ✓
<b>Miscellaneous—</b>						
Depreciation		781 25	781 25			075
Moving Equipment						
<b>Spurs &amp; Barns</b>		350 64	350 64			033
TOTAL,		1131 89 ✓	1131 89 ✓			108 ✓
Total Cost on Cars 1 Month						
Total Cost on Cars <u>12</u> Months	7275 00 ✓	3871 19 ✓	11146 19 ✓			1 069 X

**Remarks**

Made by WJ  
 Figured by \_\_\_\_\_  
 Copied by \_\_\_\_\_  
 Corrected by \_\_\_\_\_  
 Examined by WJ

13 + 14

PIONEER IRON COMPANY,

.....Furnace.....DEPT.

COST SHEET FOR RENTED HOUSES, BARNs AND I

.....Marquette, Mich.....LOCATION.

Month of.....Year.....1909....

House Number	MAINTENANCE											EARNINGS	
	Painting Outside	Interior Decoration	Carpenter Work	Mason Work	Heating Plant	Plumbing	Out Buildings	Walks, Yards and Fences	General Items	Total for Month	Total for Year	For the Month	For the Year
Emil Vermilen	1		52 73				1 00			66	54 39		84 00
John Hudock	2		52 73				10 00			66	54 39		84 00
Henry Goodroe	3		47 31				9 4			66	48 91		84 00
J. Marketony	4		47 31				9 1			66	48 88		73 50
Jas. Oldland	5		72 51				9 1			66	74 08		84 00
Fred Guskie	6		75 80				9 1			66	77 37		84 00
Abe Kemplala	7		50 37				9 1		1 99	66	53 27		77 00
Louis Lewis	8		39 01				9 1			66	40 58		84 00
John Hill	9		20 92				9 1			66	22 49		61 80
Wm. Gabal	10		20 92				9 1			66	22 49		84 00
Matt Rankala	11		54 64				9 1			66	56 21		54 00
Patt Dillon	12		51 52				9 1			66	53 09		84 00
Chas Sieffela	13		21 67				9 1			66	23 24		63 00
S. Horhoski	14		21 67				9 1			66	23 24		84 00
Chas Saram	15		48 17				9 1			66	49 74		84 00
Tom Janoski	16		11 69				9 1			66	13 26		84 00
Gust Streleman	17		13 44				9 1			66	15 01		85 40
Mike Koswoski	18		13 44				9 1			66	15 01		77 00
Aug. Kangos	19		6 23				9 1			66	7 80		84 00
C. G. Peterson	20		4 48				9 1			66	6 05		84 00
Mrs. A. Cassin	21		16 90				9 1			66	18 47		84 00
Phil DeCook	22						9 1			66	1 57		84 00
Peter Vondola	23						9 1			66	1 57		84 00
Issac Koivo	24						9 1			66	1 57		35 66
Eli Coupela	25						9 1			66	1 57		84 00
Peter Lasovitch	26						9 1			66	1 57		84 00
Martin Kusijam	27						9 1			66	1 57		84 00
Oscar Hill	28		2 73				9 1			66	4 30		74 70
Peter Lewis	29		2 73				9 1			66	4 30		84 00
H. Tervala	30						9 1			66	1 57		63 00
CARP FURNACE													
Vacant	1	Vacated 1/25/07											4 00
"	2	"											4 00
"	3	" 1/2/07											45
"	4	" 1/25/07											4 00
Austin Farrell		2 84	4 50	30 27	29 40	8 08			16 89		91 98		600 00
Total.		2 84	753 42	30 27	29 40	8 08	27 51		38 02		889 54		2953 51
GENERAL EXPENSE:													
Stationery and Printing,											122 90		
Insurance,											264 71		
Taxes,													
Advertising,													
Legal,													
Traveling,													
Engineering											10 00		
Uncollected Rent Dec. 1st., 1907													45 00
Total,											397 61		
Depreciation,											1860 64		
Total,											3147 79		
Net Earnings.													149 28
Number of Houses in good repair,		35											
" " " " poor "		0											
" " " Unrentable,		0											
Total Houses,		35											
Total Number of Untenanted Houses,		4											
Total Rent Uncollected 1st of Year,										45 00			
Total Rent Earnings—Current Year,										2953 51			
Total,										2998 51			
Total Rent Collected—Current Year,										2957 26			
Total Rent Uncollected End of Year,										41 25			
Construction Acc't not Charged Off,										20084 20			
Insurance Valuation,										30900 00			
Imp. not chgd off										2378 65			

2940  
1689  
4629

REMARKS:

BOOK BY ALAN COBLEVA



# PIONEER IRON COMPANY. FURNACE DEPARTMENT.

Labor Statement for YEAR of

1908

Sheet No. 2.

	1907		1908		Earnings		RATE PER DAY			1907		1908		Earnings		RATE PER DAY	
	No. Men	No. Days	No. Men	No. Days	1907	1908	1907	1908		No. Men	No. Days	1907	1908	1907	1908		
<b>MUNISING EAST WOOD JOB--</b>																	
Foreman and Measuring,	2	1	475	4	1328	66	2	80	1	99							
Chopping 83277½ Cords,	77	206	0	63725	0	73010	47	1	15	2	06						
Fire Protection,		5		702	0	1182	93	1	69	1	90						
Superintendent,		½		100	7	961	20	9	54	9	56						
Spurs and Barns,	4	1		37	5	69	51	1	85	1	95						
<b>Total</b>	<b>83½</b>	<b>213½</b>	<b>65040</b>	<b>6</b>	<b>76552</b>	<b>77</b>	<b>1</b>	<b>18</b>	<b>2</b>	<b>08</b>							
<b>MUNISING EAST LOADING JOB--</b>																	
Foreman,	1½	1		219	0	481	10	2	20	2	30						
Teamsters,	11	12		1865	1	3678	91	1	97	2	07						
Swampers,	11	11		1634	1	2889	21	1	77	1	89						
Car Loaders,	9	5		824	3	1507	29	1	83	1	93						
Road Makers,	14	9		1467	9	2606	93	1	78	1	88						
Barn Boss,	1	1		234	4	387	95	1	65	1	75						
Blacksmith,	1	1		243	5	463	95	1	90	1	91						
<b>Total</b>	<b>48½</b>	<b>40</b>	<b>6488</b>	<b>3</b>	<b>12015</b>	<b>34</b>	<b>1</b>	<b>85</b>	<b>1</b>	<b>95</b>							
<b>MUNISING WEST WOOD JOB--</b>																	
Foreman and Measuring,	1½	1		298	9	512	05	1	71	1	44						
Chopping 55680-7/8 Cords,	74	131		40615	0	47608	02	1	17	1	98						
Fire Protection,		1		37	5	63	30	1	69								
Superintendent,				78	9	754	88	9	56	9	73						
Spurs and Barns,		8									94						
<b>Total</b>	<b>83½</b>	<b>133</b>	<b>41030</b>	<b>3</b>	<b>48938</b>	<b>25</b>	<b>1</b>	<b>19</b>	<b>1</b>	<b>99</b>							
<b>MUNISING WEST LOADING JOB--</b>																	
Foreman,	1½	2		359	0	793	40	2	21	2	29						
Teamsters,	18	17		2649	6	5222	76	1	97	2	08						
Swampers,	22	24		4015	4	7117	95	1	77	1	89						
Car Loaders,	6	6		946	0	1716	69	1	81	1	94						
Road Makers,	7	6		740	9	1311	41	1	77	1	90						
Barn Boss,	1	1		185	9	308	45	1	66	1	81						
Blacksmith,	1	2		352	0	689	58	1	96	1	95						
<b>Total</b>	<b>56½</b>	<b>58</b>	<b>9248</b>	<b>8</b>	<b>17160</b>	<b>24</b>	<b>1</b>	<b>86</b>	<b>1</b>	<b>96</b>							
<b>EBEN WOOD JOB--</b>																	
Foreman and Measuring,	1			12	0	21	0	1	75	1	92						
Chopping 2191-7/8 Cords,	11	7		1543	0	1977	81	1	88	1	93						
Fire Protection,				1	7	2	72	1	60								
Superintendent,				3	4	33	92	9	97								
Spurs and Barns,																	
<b>Total</b>	<b>12</b>	<b>7</b>	<b>1560</b>	<b>1</b>	<b>2035</b>	<b>45</b>	<b>1</b>	<b>30</b>	<b>1</b>	<b>95</b>							
<b>EBEN LOADING JOB--</b>																	
Foreman,	1	1		182	0	420	00	2	31	2	24						
Teamsters,	6	9		1201	4	2380	98	1	98	2	11						
Swampers,	8	7		904	7	1618	10	1	79	1	87						
Car Loaders,	2	3		383	7	706	26	1	84	1	94						
Road Makers,	1	6		880	2	1573	37	1	79	1	90						
Barn Boss,	1	1		153	2	255	29	1	67	1	73						
Blacksmith,	1	1		162	5	321	00	1	98	1	95						
<b>Total</b>	<b>20</b>	<b>28</b>	<b>3867</b>	<b>7</b>	<b>7275</b>	<b>00</b>	<b>1</b>	<b>88</b>	<b>1</b>	<b>96</b>							
<b>COALWOOD SOFTWOOD JOB:</b>																	
Foreman				44	5	144	64	3	25								
Swampers	1			43	0	68	80	1	60								
Piece Work	7			769	0	512	24		67								
Teamsters	4			196	2	343	33	1	75								
Roads	4			277	1	443	52	1	60								
Loaders	3			44	8	78	40	1	75								
<b>Total</b>	<b>19</b>	<b>1374</b>	<b>6</b>	<b>1590</b>	<b>93</b>	<b>1</b>	<b>16</b>										
<b>DREMLING JOB:</b>																	
Cutting logs	6			75	8	121	28	1	60								
Skidding logs	6			106	4	179	52	1	69								
Foreman	1			32	6	75	38	2	31								
<b>Total</b>	<b>13</b>	<b>214</b>	<b>8</b>	<b>376</b>	<b>18</b>	<b>1</b>	<b>75</b>										
<b>DORSEY JOB:</b>																	
Cutting logs	4			24	6	39	13	1	60								
Skidding logs	4			24	3	38	87	1	60								
<b>Total</b>	<b>8</b>	<b>48</b>	<b>9</b>	<b>78</b>	<b>00</b>	<b>1</b>	<b>60</b>										
<b>KEMP OF HORSES AT CAMP:</b>																	
Foreman	2			368	6	822	76	2	23								
Blacksmith	1			94	5	157	52	1	66								
Teamsters	2			28	8	54	72	1	90								
Repairs Spurs	2			73	0	116	80	1	60								
Barn Boss	1			46	9	78	39	1	67								
Roads	8			650	0	1053	99	1	62								
<b>Total</b>	<b>16</b>	<b>1261</b>	<b>8</b>	<b>2284</b>	<b>18</b>	<b>1</b>	<b>80</b>										
<b>IMPROVEMENT:-</b>																	
	5			357	0	639	83	1	79								
<b>Miscellaneous</b>																	
	4			65	9	112	09	1	70								
<b>SUMMARY:-</b>																	
Total not including wood jobs,	259	256	62393	51477	54	34	2	37	2	31							
Total wood jobs,	303½	514	130558	81690	58	26	1	30	2	00							
<b>Grand Total</b>	<b>562½</b>	<b>800</b>	<b>192952</b>	<b>35168</b>	<b>12</b>	<b>60</b>	<b>1</b>	<b>64</b>	<b>2</b>	<b>14</b>							
<b>DETAIL:-</b>																	
<b>FURNACE--</b>																	
Not including office,	79			23656	4	51058	08										
Office,	3½			1297	2	8288	04										
<b>Total,</b>	<b>82½</b>	<b>24953</b>	<b>6</b>	<b>59346</b>	<b>12</b>	<b>✓</b>											
<b>CHEMICAL PLANT--</b>																	
Not including office,	38			11715	0	24781	05										
Office,	2			639	4	4082	43										
<b>Total,</b>	<b>40</b>	<b>12354</b>	<b>4</b>	<b>28863</b>	<b>48</b>	<b>✓</b>											
<b>ACETATE PLANT,</b>																	
Not including office,	20			4933	9	10014	22										
Office,	½			245	7	1544	11										
<b>Total,</b>	<b>20½</b>	<b>5179</b>	<b>6</b>	<b>11558</b>	<b>53</b>	<b>✓</b>											
<b>FORMALDEHYDE PLANT--</b>																	
Not including office,	10			1882	3	3960	37										
Office,	½			104	6	674	70										
<b>Total,</b>	<b>10½</b>	<b>1986</b>	<b>9</b>	<b>4635</b>	<b>07</b>	<b>✓</b>											
<b>ACETONE PLANT:</b>																	
Not including office	8			2030	8	4219	97										
Office including office	½			272	1	481	99										
<b>Total</b>	<b>8½</b>	<b>2102</b>	<b>9</b>	<b>4701</b>	<b>96</b>	<b>✓</b>											
<b>KILNS,</b>																	
<b>CARP FURNACE--</b>																	
Not including office,	3			1021	2	3879	11										
Office,	1½			579	0	3074	96										
<b>Total,</b>	<b>4½</b>	<b>1600</b>	<b>2</b>	<b>6954</b>	<b>07</b>	<b>✓</b>											
<b>CARP KILNS</b>																	
	8			67	0	156											



# PIONEER IRON COMPANY.

## FURNACE DEPARTMENT.

Labor Statement for YEAR 1908

1908

Sheet No. 1.

No. Men	No. Days	Earnings	RATE PER DAY		No. Men	No. Days	Earnings	RATE PER DAY	
			1907	1908				1907	1908
<b>FURNACE—</b>									
Engineers,	2	229 4	656 40	2 86	2 90				
Fan Engine Engineers,	2	294 4	693 90	2 36	2 40				
Firemen,	4	543 5	1064 99	1 96	2 00				
Oilers,	2	283 8	584 16	2 06	2 10				
Wipers,	2	218 0	373 08	1 71	1 75				
Founders,	2	737 0	3073 70	4 17	4 20				
Keepers,	2	389 7	921 84	2 37	2 40				
Helpers,	8	1530 3	3100 84	2 03	2 13				
Top Fillers,	2	310 3	642 33	2 07	2 10				
Bottom Fillers,	2	400 0	766 45	1 91	1 95				
Cinder Snappers,	7	1485 0	2678 76	1 80	1 83				
Sand Man,	1	116 5	218 56	1 88	1 95				
Iron Grader,	1	366 0	680 20	1 86	1 90				
Iron Handlers,	6	1022 2	3185 08	3 12	2 97				
Coal Forkers,	14	12 2383 7	4810 80	2 02	2 04				
Coal Car Motorman,	2	378 8	763 80	2 02	2 05				
Coal Car Brakeman,	2	382 2	712 96	1 87	1 90				
Scale Car Motorman,	2	384 5	813 65	2 12	2 15				
Hoist Men,	2	384 0	774 27	2 02	2 05				
Watchman	1	82 0	168 10	2 05	1 88				
66 6	64								
Less 45% to C.P., 10% to A.P., 5% to F.P.	8								
60 1	56	11921 3	26683 87	2 24	2 21				
<b>CHEMICAL PLANT</b>									
Laboratory Boy	10	10	2232 5	52 73	52 2	2 36	2 26		
Engineers, & Fan Engineers	4	4	588 9	1519 08	2 58	2 65			
Firemen, Oilers and Wipers,	8	8	1175 9	2274 98	1 94	1 96			
Condensermen,	2	2	364 0	716 00	1 97	2 00			
Chute Apparatus Operators,	2	2	361 9	763 15	2 11	2 15			
Watchman	1	1	127 5	274 20	2 15				
26 28	8								
Less 40% to Furn., 10% to A.P., 5% to C.P.	8								
Total	20	20	4869 7	10853 23	2 23	2 20			
<b>KILNS—Labor on Kiln Drain</b>									
Colliers	5	5	1230 4	2701 12	2 20	2 14			
Whitewashers,	2	2	338 5	722 21	2 13	1 90			
Packers,	20	20	3185 0	8369 92	2 63	2 79			
Packer Foreman,	1	1	196 5	524 17	2 67	4 48			
Kiln Cleaner,	2	2	360 0	670 83	1 86	1 89			
Braizeman,	2	2	598 3	1113 66	1 86	1 90			
Screeners,	1	1	180 9	320 17	1 77	1 83			
33 1	35	6156 1	14553 68	2 36	2 53				
<b>CARP FURNACE—</b>									
Engineers,	2				2 30				
Founders,	1	1	366 0	1800 00	4 92	4 38			
Keepers,	2				2 40				
Helpers,	4				2 10				
Top Fillers,	3				2 25				
Bottom Fillers,	10				1 95				
Coal Forkers,	6				2 15				
Weigher and Grader,	1				2 99				
Iron Handlers,	3				2 49				
Cinder Snappers,	2				1 85				
Sand Man,	1				1 82				
Watchman			31 0	122 10	3 94				
35 1	1	397 0	1922 10	4 84	2 20				
<b>Office Pay Roll,</b>									
10	8	2999 0	18396 23	6 13	5 14				
<b>MISCELLANEOUS—</b>									
Barn Boss,	1	1	366 0	720 00	1 97	1 81			
Teamsters and Helpers,	1	2	688 6	1276 75	1 85	1 87			
Blacksmith,	1	1	315 1	900 52	2 86	2 90			
Carp Furnace Watchman	1	1	335 0	1375 00	4 11				
Machinists,	7	8	2553 7	6793 48	2 66	2 60			
Machinists Helpers,	3	6	2073 7	3792 71	1 83	1 88			
Carpenters,	4	4	1259 5	3162 27	2 51	2 41			
Locomotive Engineer,	1	1	213 5	654 06	3 06	3 10			
Brakeman,	1	1	175 5	476 35	2 71	2 75			
Electrician,	1	1	392 0	1246 80	3 18	3 13			
Electrician Helper	1	1	388 8	1385 64	1 71	0 80			
Yard Foreman,	1	1	368 0	1200 00	3 28	3 29			
Laborers,	25	56	19987 3	36638 35	1 83	1 75			
Laboratory Boys,	1	1	384 0	691 00	1 80	1 48			
Masons	2	4	728 1	3431 56	4 71	3 59			
Masons Helpers	1	8	1322 6	2653 91	2 01	1 90			
Total	50	97	31386 5	65398 40	2 08	2 08			
<b>FORMALDEHYDE PLANT—</b>									
Engineers, & Fan Engineers	4	4	65 7	168 80	2 57	2 65			
Firemen, Oilers and Wipers,	8	8	130 8	252 77	1 93	1 96			
Stillmen,	2	3	902 3	1948 45	2 16	2 18			
14 15	10								
Less 40% to Furn., 45% to C.P., 10% to A.P.	10								
4 5	5	1098 8	2370 02	2 16	2 18				
<b>ACETATE PLANT—</b>									
Engineers, & Fan Engineers	4	4	130 9	337 60	2 58	2 65			
Firemen, Oilers and Wipers,	8	8	261 3	505 56	1 94	1 96			
Rakers,	2	3	471 4	1010 26	2 15	2 32			
Skimmers,	2	3	455 9	988 37	2 17	2 44			
Lillie Operators,	2	2	344 4	744 86	2 16	2 30			
Firemen,	3	2	425 4	918 64	2 16	2 32			
21 22	11								
Less 40% to Furn., 45% to C.P., 5% to A.P.	11								
11 11	11	2089 3	4505 29	2 16	2 30				
<b>ACETONE PLANT:</b>									
Firemen	2	4	1163 9	2446 90	2 10	2 20			
<b>Total,</b>									
<b>CARP MISCELLANEOUS—</b>									
Laboratory Boy,	1					1 72			
Yard Foreman,	1					3 64			
Blacksmith,	1					3 58			
Blacksmith Helper,	1					1 83			
Carpenter,	1					2 46			
Barn Boss,	1					1 87			
Laborers,	9	16 0	244 9	468 38	1 91	1 70			
Total	15	16	244 9	468 38	1 91	1 89			
<b>CARP KILNS,</b>									
Packer Foreman,	1	1	29 0	74 84	2 58	2 56			
Colliers,	4	1	27 0	59 40	2 20	2 03			
Whitewashers,	1					1 85			
Packers,	10	1	11 0	22 00	2 00	2 16			
Cleaner	2					1 81			
Braizemen,	2					1 77			
19 3	3	67 0	156 24	2 33	2 10				
<b>Total sheet No. 1</b>									
259	256	62293 514	7754 34	2 37	2 31				



# Pioneer Iron Company

Furnace Department.

## STATEMENT OF SHOP LABOR, 1908.

### MACHINE SHOP

<u>Month</u>	<u>Pay Roll</u>	<u>Sup- plies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Less Hours Rep. Tools</u>	<u>Net Hours Charged</u>	<u>Cost Per Hour</u>
Dec.	836.60	23.23	859.83	3213	71	3142	.2736
Jan.	744.06	10.15	754.21	2940	44	2896	.2604
Feb'y.	794.09	8.45	802.54	2804	34	2770	.2897
March	766.35	10.30	776.65	3048	73	2975	.261
April	737.56	13.39	750.95	2893	69	2824	.2658
May	795.70	9.80	805.50	3132	12	3120	.2582
June	924.81	23.82	948.63	3747	32	3715	.2553
July	906.23	21.90	928.13	3698	21	3677	.2524
Aug.	922.85	31.87	954.72	3776	42	3734	.2556
Sept.	951.93	27.06	978.99	3788	16	3772	.2523
Oct.	1223.20	23.78	1246.98	5207	36	5171	.2365
Nov.	982.81	81.97	1064.78	4046	21	4025	.2647
Total	10586.19	285.72	10871.91	42292	471	41821	.2599

### BLACKSMITH SHOP

Dec.	74.04	5.45	79.49	251	2	249	.3192
Jan.	74.10	5.50	79.60	260	0	260	.3062
Feb.	72.39	5.15	77.54	254	1	253	.3063
March	74.10	5.15	79.25	260	4	256	.3095
April	76.38	5.00	81.38	268	0	268	.3036
May	74.38	7.50	81.88	261	0	261	.3137
June	80.08	8.10	88.18	281	0	281	.3138
July	74.10	5.60	79.70	260	0	260	.3065
Aug.	72.39	15.48	87.87	254	0	254	.3459
Sept.	72.67	6.46	79.13	255	0	255	.3103
Oct.	83.79	32.35	116.14	294	1	293	.3963
Nov.	72.10	20.36	92.46	253	2	251	.3682
Total	900.52	122.10	1022.62	3151	10	3141	.3223

### CARPENTER SHOP

Dec.	206.66	0.00	206.66	866	0	866	.2387
Jan.	121.02	0.00	121.02	515	0	515	.235
Feb.	113.50	0.00	113.50	490	0	490	.2316
March	122.20	0.00	122.20	520	0	520	.235
April	128.07	0.00	128.07	545	0	545	.235
May	429.36	0.00	429.36	1792	0	1792	.2396
June	326.40	0.00	326.40	1360	0	1360	.24
July	226.62	0.00	226.62	961	0	961	.2358
August	375.54	0.00	375.54	1645	0	1645	.2283
Sept.	221.75	0.00	221.75	871	0	871	.2546
Oct.	398.16	0.00	398.16	1546	0	1546	.2575
Nov.	411.14	0.00	411.14	1652	0	1652	.2488
Total	3080.42	0.00	3080.42	12763	0	12763	.2413

Made by com  
 Figured by \_\_\_\_\_  
 Copied by com  
 Corrected by com  
 Examined by com

24

# Pioneer Iron Company

Furnace Department.

1908  
 --  
 1907  
 STABLE EXPENSE  
 COMPARATIVE

## COMPARATIVE STABLE EXPENSE

	Total cost		Cost per horse per day	
	1908	1907	1908	1907
Hay	547.18	437.94	.166	.180
Oats	1160.64	932.40	.353	.384
Feed	24.30	7.29	.008	.003
Straw	40.67	18.20	.012	.007
Medicine	18.25	34.60	.006	.014
Shoeing	275.94	77.88	.084	.032
Reps. to Carts, Wagons & Sleighs	104.38	84.72	.031	.035
Reps. to Harness	12.62	45.68	.004	.019
Curry Combs, brushes, grease & oils	8.44	12.70	.003	.005
	2192.42 ✓	1651.41 ✓	.667 ✓	.679 ✓

## DISTRIBUTION

	1908		1907	
	No. Horses	No. Days	No. Horses	No. Days
Horses on cinder carts	3	1095	3	1095
" " braize "	2	730	2	730
" " filter work	1	365	1	243
" " team work	3	1095	1	365
Total		3285 ✓		2433 ✓

Made by WSP  
 Figured by \_\_\_\_\_  
 Copied by Bill  
 Corrected by Bill  
 Examined by Tom

*Next year show distribution to cost sheets and quantities of supplies used.*

	1908	1907
For Stable Expense	2192.42	1651.41
Harrell " "	633.46	429.80
Carp " "	101.63	435.99
<u>Total Expense</u>	<u>2927.51</u>	<u>2517.20</u>