

191 - 0161

Misc Data File

AGENTS' ANNUAL REPORTS AND
STATISTICS

YEAR ENDING DEC. 31,

1910

Free, Ed. and Lundberg

MS 86-100
2094

RECORDS REFERRAL OUTCARD

DEPARTMENT <i>CS</i>		DATE MAR 25 1988
DIVISION <i>Oral App</i>		
RECORD REQUESTED <i>Peabody, Mary</i>		
PERSON REQUESTING <i>J. HAASE</i>	LOT <i>928</i>	BOX <i>13</i>

DEPARTMENT OF MANAGEMENT AND BUDGET
OFFICE SERVICES DIVISION
STATE RECORDS MANAGEMENT SERVICES

RECORDS REFERRAL OUTCARD

DEPARTMENT <i>L & R</i>	DATE
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DIVISION <i>MALP.</i>

RECORD REQUESTED <i>KIRSCHENBAUM, STEWART</i> <i>21-5-B</i> <i>21-5-B</i>

PERSON REQUESTING	LOT	BOX
<i>SARA</i>	<i>652</i>	<i>3</i>

#2094

161

AGENTS' ANNUAL REPORTS
AND STATISTICS
FOR YEAR ENDING DECEMBER 31, 1910

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THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT

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DETAIL OF STOCK USE

O R E S	1910						1909					
	Tons	Lbs	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used
L a k e	35255	390	3 482	122755	93 3	500 49 5	38199	1697	3 204	122395	08 2	905 45 0
Cliffs Shaft	4892	1520	4 385	21454	77	612 6 9	6723	485	4 082	27438	43	651 7 9
Maas	28477	1210	3 553	101109	04 2	882 40 0	32443	1046	3 234	104926	67 2	491 38 2
Lake Silica	99	0000	1 718	170	09	005 1	2590	2187	1 623	4206	83	100 3 1
South Jackson	179	0000	1 530	273	87	008 3	1808	570	1 429	2584	29	061 2 1
Clinton Silica	1248	230	1 716	2141	09	060 1 7						
Lucy	1125	1860	2 191	2466	18	070 1 5	46	1136	2 637	122	60	003 0 0
Clinton							2424	1540	3 143	7622	06	181 2 9
Cambridge							706	760	3 224	2277	71	054 8
Scrap										25	52	000
Brands for thawing ore				545	94	016				382	60	009
Bonuses account ore analysis				936	66	027				1169	55	028
Penalties account ore analysis				1248	24	036				1133	97	027
Adjustment of Ore prices										56	11	001
Total	71277	730	3 515	250605	33 7	144 100	84943	461	3 203	272073	48 6	457 100 %
Limestone	1914	160	979	1874	27	053	2479	1650	1 030	2554	94	061
Charcoal (Bushels)	3210280		0825	264996	71 7	554	3973477		0766	304157	62 7	220

Remarks:-

Overruns in Ores:-

1910 - Maas ore,

1909 - Maas ore,

811-0944 tons from August, 1909 to December 31st., 1910

419-1923 tons from August 31st., 1908 to August 31st., 1909.

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENTS OF PIG IRON COST SHEETS FOR 1910 AND 1909

13 MOS.

	Tons Iron Made 1910 35079				Tons Iron Made 1909 42131			
	Days Operated 347 1/2				Days Operated 392			
Number of Blast, 3rd	Average tons per day 100.9				Average tons per day 107.4			
Tons made this blast 77210								
	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton
GENERAL EXPENSE:-								
Taxes		3037 45	3037 45	087		3089 16	3089 16	073
Insurance						101 90	101 90	002
Analysis	964 81	833 92	1798 73	051	1764 02	261 04	2025 06	048
Central Office Expense 25%	7084 86	3627 29	10712 15	305	7588 82	4971 86	12560 68	298
Personal Injury		350 00	350 00	010				
Total	8049 67	7848 66	15898 33	453	9352 84	8423 96	17776 80	421
MAINTENANCE:-								
Tracks & Yard	1181 55	1113 70	2295 25	065	901 02	830 39	1731 41	042
Trestles & Docks	1103 65	3967 68	5071 33	145	649 79	172 69	477 10	012
Buildings	775 51	708 48	1483 99	042	709 24	344 27	1053 51	025
Machinery	232 09	143 42	375 51	011	1314 32	682 91	1997 23	047
Tuyeres	146 10	347 11	493 21	014	199 13	431 44	630 57	015
Relinings & Renewals		3520 10	3520 10	100		4226 00	4226 00	100
Water Supply					72 86	8 06	80 92	002
Pig Iron Trucks, Coal & Ore Buggies	1014 68	329 97	1344 65	038	662 83	182 73	845 56	020
Stack	623 05	238 63	861 68	025	13 53	25 81	39 34	001
Stoves	492 38	302 91	795 29	023	56 57	162 19	218 76	005
Cleaning Up	563 16	79 26	642 42	018	661 90	190 91	852 81	020
Total	6132 17	10751 26	16883 43	481	5241 19	6912 02	12153 21	289
OPERATING:-								
Machinery	2044 70	706 61	2751 31	078	3913 15	1453 95	5367 10	127
Electric Lamps & Wiring	208 65	377 81	586 46	018	99 87	304 88	404 75	009
Bottom Fillers	10815 60	699 98	11515 58	328	12436 44	373 84	12810 28	304
Top Fillers	2861 42	4 25	2865 67	082	3118 86	5 72	3124 58	074
Handling Iron	6336 77	10 37	6347 14	180	6743 48	61 77	6805 25	162
Handling Cinder	2750 89	2144 03	4894 92	140	3803 78	1389 16	5192 94	123
Weighing & Grading Iron	720 00		720 00	021	780 00		780 00	019
Founders, Keepers & Helpers	10483 57	29 90	10513 47	300	11184 55		11184 55	265
Coal Forkers	8803 16	111 05	8914 21	254	9550 37	69 01	9619 38	229
Casting Tools	307 59	177 41	485 00	014	357 04	390 48	747 52	018
Sand & Clay	1306 24	477 64	1783 88	050	1192 65	1287 64	2480 29	059
Central Power Expense	1753 58	682 28	2435 86	070				
Fire Loss At Camps		69 62	69 62	002		276 80	276 80	007
Filtering					4 80	136 56	141 36	003
Wood					56 11	728 55	784 66	019
Cleaning Stoves	178 08	9 72	187 80	005	218 74	23 50	242 24	006
Boiler Fuel, 84 tons, 1909					22 03	244 61	266 64	006
Total	48570 25	5500 67	54070 92	1 542	53481 87	6746 47	60228 34	1 430
STOCK USED:-								
Ore	93 51	250511 82	250605 33	7 144	53 76	272019 72	272073 48	6 457
Charcoal		264996 71	264996 71	7 554		304157 62	304157 62	7 220
Limestone		1874 27	1874 27	053		2554 94	2554 94	061
Total	93 51	517382 80	517476 31	14 751	53 76	578732 28	578786 04	13 738
Cost of Production	62845 60	541483 39	604328 99	17 227	68129 66	600814 73	668944 39	15 878
DEPRECIATION:-								
Equipment Account						1502 50	1502 50	036
Appreciation of Inventory		218 94	218 94	006		407 54	407 54	010
Total		218 94	218 94	006		1094 96	1094 96	026
Total Cost on yard	62845 60	541264 45	604110 05	17 221	68129 66	601909 69	670039 35	15 998
SHIPPING EXPENSE:-								
1910 1909								
Loading Cars 8013 tons 11680 tons	53 03	572 98	626 01	078	1 90	756 60	758 50	065
Switching "	72 35	41 56	113 91	014	99 31	64 85	164 16	014
Total Loading Cars	125 38	614 54	739 92	021	101 21	821 45	922 66	022
1910 1909								
Loading Vessels 12437 tons 20123 tons	285 86	1673 06	1958 92	056	443 75	2591 86	3035 61	072
Grand Total	63256 84	543552 05	606808 89	17 298	68674 62	605323 00	673997 62	15 998
	SUMMARY OF COST PER TON							
	1910						1909	
	On Yard	On Cars	On Vessel	On Yard	On Cars	On Vessel	YIELD	
Cost on Yard as above	17 221	17 221	17 221	15 904	15 904	15 904	1910	
Cost to Lead as above		092	158		079	151	1909	
Total	17 221	17 313	17 379	15 904	15 983	16 055	49 2 Ore 49 6	
Commissions and Expenses Cleveland office	350	350	350	350	350	350	91 5 Coal 94 3	
Total Cost	17 571	17 663	17 729	16 254	16 333	16 405	122 0 Flux 132 0	
							Cost per ton for labor 1 630	

Remarks:-

Made by J.P.A.
Checked by C.P.H.
Corrected by C.P.H.
Examined by D.S.M.

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

**COMPARATIVE
CHARCOAL COST SHEET.**

For the Years, of 1910 - 1909 190

ACCOUNT	Year, 1910			13 MOS. Year, 1909		
	BUSHELS	AMOUNT	Cost per Bus.	BUSHELS	AMOUNT	Cost per Bus.
PIONEER FURNACE KILNS—	2275750			2652048 ✓		
Wood, <i>21.798</i>	141359	44	0622	149420	30	0563
Loading from Yard,	2280	23	0010	1178	02	0005
Packing,	12664	55	0055	14410	41	0054
Colliers	3995	41	0018	4287	70	0016
Braize Cartman	1092	28	0005	1744	89	0007
Whitewashing,	1673	07	0007	1929	98	0007
Cleaning & Screening	1389	58	0006	870	60	0003
Depreciation,	5689	45	0025	6630	13	0025
Repairs,	3735	56	0016	1830	12	0007
Total,	173879	57	0764	182302	15	0687
Average yield per cord,			45 ⁰			45 ⁴ ✓
Cords Carbonized,			50529			58371 ✓
Cords Carbonized per Kiln,			60			64 ✓
Bushels per Kiln, small,			2697			2739 ✓
Bushels per Kiln, large,			2985			3354 ✓
PIONEER FURNACE RETORTS—	705120			818720 ✓		
Wood, <i>21.798</i>	42137	58	0597	45015	12	0550
Loading & Drawing	5052	15	0072	5468	69	0067
Splitting Wood	2819	82	0040	3052	34	0037
Foreman	900	00	0013	975	00	0012
Firing,	2966	24	0042	3192	29	0039
Fuel,	13301	52	0189	14583	27	0178
Sand and Cement,	88	35	0001	70	49	0001
Depreciation,	6189	43	0088	10643	36	0130
Repairs,	2664	94	0038	5794	38	0071
Total,	76120	03	1080	88794	94	1085
Average Yield per Cord,			46 ⁷			47 ⁰ ✓
Cords Carbonized 1 Mo.			15090			17442 ✓
Cords Carbonized Mos.						
Lbs. Fuel per cord of wood,			583			509 ✓
FROM JOBBERS—	240457			500607 ✓		
Coal,	13085	25	0544	27685	57	0553
Freight,	2039	00	0085	4206	37	0084
Switching,	64	98	0003	160	78	0003
Repairs <i>expense,</i>	713	53	0030	865	63	0017
Insurance on Cars,	41	28	0001	41	28	0001
Depreciation of Equipment,						
Total,	15944	04	0663	32959	63	0658
Grand Total,	3221357	265943	64	3971375	304056	72

REMARKS: Year, 1910:-

2060 tons Yough. @ 3.099 6385.32 ✓
 2337 tons Anth. @ 2.306 5390.53 ✓
 156 cds. Brands @ 2.75 433.96
 Handling Fuel 1091.71

Year, 1909:-

2730 tons Yough. @ 3.185 8641.67
 1700 " Anth. @ 2.448 4185.27
 215 Cords Brands @ 2.713 583.23
 Handling Fuel 1173.10

Total 13301.52 ✓
 Construction Acct. not charged off, Kilns 4190.37
 Improvement " " " " Retorts
 Year 1909 has 13 months

Total 14583.27 ✓
 9879.82 Made by *Eric*
 6189.43 Figured by *Eric*
 Copied by *Eric*
 Corrected by *Eric*
 Examined by *Eric*

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1910 AND 1909

13 MOS.

Plant No. 1	Gallons Produced 1910 193406½				Gallons Produced 1909 259950½			
	No. Days Operated 1910 348				No. Days Operated 396			
	Avg. Gallons per day 556				Avg. Gals. per day 656½			
	Labor	Supplies	Total	Cost Per Gal.	Labor	Supplies	Total	Cost Per Gal.
GENERAL EXPENSE:-								
Insurance		1575 00	1575 00	008		1706 25	1706 25	007
Taxes		1786 73	1786 73	009		1817 14	1817 14	007
Analysis	462 19	64 00	526 19	003	1542 25	84 32	1626 57	006
Central Power Expense .049%	1380 58	806 72	2187 30	011	2001 03	1320 03	3321 06	013
Total	1842 77	4232 45	6075 22	031	3543 28	4927 74	8471 02	033
MAINTENANCE:-								
Tanks & Stills	801 76	743 89	1545 65	008	1712 92	986 43	2699 35	011
Condensers	159 65	615 88	775 53	004	344 91	2484 13	2829 04	011
Machinery	60 04	23 70	83 74	000	135 69	245 58	381 27	001
Boilers			0 00		157 68	96 52	254 20	001
Fans & Motors	30 41	460 70	491 11	003	69 22	269 63	338 85	001
Smoke Mains	100 25	12 29	112 54	001	233 73	54 59	288 32	001
Buildings	11 02	5 56	16 58	000	240 15	247 60	487 75	002
Water Supply					3 52		3 52	000
Sewer	12 27	11	12 38	000	15 84		15 84	000
Cleaning Up	11 50		11 50	000	59 70	43 31	103 01	000
Total	1186 90	1862 13	3049 03	016	2973 36	4427 79	7401 15	028
OPERATING:-								
Superintendent	325 60		325 60	002	187 50		187 50	001
Stillmen	5107 91	284 42	5392 33	028	5835 51	46 79	5882 30	023
Engineers			0 00		3490 06		3490 06	013
Firemen			0 00		898 51	3 73	902 24	003
Machinery		67 41	67 41	000		145 34	145 34	001
Boilers			0 00		102 70	22 05	124 75	000
Fuel, 1909 - 1051 tons			0 00			3329 84	3329 84	013
Electric Lamps & Wiring	19 54	74 36	93 90	0000	17 81	62 59	80 40	000
Lime			0 00			1651 20	1651 20	006
Chemicals	2 53	1550 15	1552 68	008		554 71	554 71	002
No. 1 Chemical Power Expense 328%	2716 74	11350 10	14066 84	073			0 00	
Condensermen	732 87	16 65	749 52	004	1423 28		1423 28	006
Hose			0 00			255 00	255 00	001
Total	8905 19	13343 09	22248 28	115	11955 37	6071 25	18026 62	069
Cost of Production	11934 86	19437 67	31372 53	162	18472 01	15426 78	33898 79	130
DEPRECIATION:-								
Improvement Account		25340 77	25340 77	131		27845 84	27845 84	107
Appreciation of Inventory		105 35	105 35	000		7 49	7 49	000
Total		25235 42	25235 42	131		27853 33	27853 33	107
Total Cost	11934 86	44673 09	56607 95	293	18472 01	43280 11	61752 12	237
SHIPPING EXPENSE:-								
	1910	1909						
Packages	155940	200090	Gals.					
Loading	"	"	"	250 20	3600 64	3850 84	025	3 60
Switching	"	"	"	83 66	67 83	151 49	001	138 34
				9 51	5 65	15 16	000	13 98
Total				343 37	3674 12	4017 49	021	155 92
Total cost on cars	12278 23	48347 21	60625 44	314	18627 93	49499 63	68127 56	262
Improvement Acct. not sunk off			33781 90				59122 67	
Smoke received from:-								
49743 cords in 1910								
58196 cords in 1909								
Yield per cord of wood				389				47
Avg. cost per gal. Plants No. 1 & 2				345				297

Remarks:-

Made by JMA
 Checked by ✓
 Copied by ✓
 Corrected by ✓

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1910 AND 1909

13 MOS.

Plant No. 2	Gallons produced 1910 119146 ✓ No. Days operated 1910 350 ✓ Avg. gallons per day 341 ✓				Gallons produced 1909 134356 1/2 ✓ No. days operated 1909 391 ✓ Avg. gals. per day 344 ✓			
	Labor	Supplies	Total	Cost per Gal.	Labor	Supplies	Total	Cost per Gal.
GENERAL EXPENSE:-								
Insurance		2250 00	2250 00	019		2437 50	2437 50	018
Taxes		595 58	595 58	005		605 71	605 71	005
Analysis	252 89	36 64	289 53	002	1064 95	48 39	1113 34	008
Central Office Expense 027%	763 13	424 27	1187 40	010	1061 91	867 52	1929 43	014
Total	1016 02	3306 49	4322 51	036	2126 86	3959 12	6085 98	045
MAINTENANCE:-								
Tanks & Stills	484 03	502 15	986 18	008	663 30	544 57	1207 87	009
Condensers	118 54	784 05	902 59	008	394 51	2285 19	2679 70	020
Machinery	5 02	45	5 47	000	209 11	60 37	269 48	002
Boilers			0 00		180 68	329 40	510 08	004
Buildings	70 72	15 74	86 46	001	13 73	43 18	56 91	000
Sewer	88 16	95	89 11	001	78 05	11 00	89 05	001
Cleaning Up	18 20		18 20	000	70 64	61 31	131 95	001
Total	784 67	1303 34	2088 01	018	1610 02	3335 02	4945 04	037
OPERATING:-								
Superintendent	179 98	4 74	184 72	002	93 75		93 75	001
Stillmen	2811 64	112 08	2923 72	024	3016 46	30 36	3046 82	023
Firemen					2030 35	4 62	2034 97	015
Machinery						142 26	142 26	001
Boilers					146 88	68 85	215 73	001
Fuel, 5004 tons, 1909					621 95	16124 00	16745 95	125
Electric Lamps & Wiring	1 47	50 39	51 86	001	36 98	51 41	88 39	001
Lime						2868 00	2868 00	021
Chemicals	16	594 59	594 75	005		39 67	39 67	000
Hose						127 50	127 50	001
No. 1 Chem. Power Exp. 352%	1853 35	7838 15	9691 50	081				
Total	4846 60	8599 95	13446 55	113	5946 37	19456 67	25403 04	189
Cost of Production	6647 29	13209 78	19857 07	167	9683 25	26750 81	36434 06	271
DEPRECIATION:-								
Improvement		6516 48	6516 48	054		7059 52	7059 52	053
Inventory		61 95	61 95	000		7 48	7 48	000
Total		6454 53	6454 53	054		7067 00	7067 00	053
Total Cost	6647 29	19664 31	26311 60	221	9683 25	33817 81	43501 06	324
SHIPPING EXPENSE								
	1910	1909						
Packages	120577	130472 1/2	Gals.					
Loading	"	"	"	213 72	3433 54	3647 26	5171 81	040
Switching	"	"	"	69 77	4 07	73 84	129 66	001
				6 79	3 83	10 62	14 93	000
Total				290 28	3441 44	3731 72	5316 40	039
Total cost on cars	6937 57	23105 75	30043 32	252	9782 63	39034 83	48817 46	363
Imp. Account not sunk off			7300 40			13816 88		
Smoke received from:-								
15090 cords, 1910								
17442 cords, 1909								
Yield of alcohol per cord of wood				720				710
AVG. cost per gal., Plants No. 1 & 2				345				297

Made by Jwa
Figured by cur
Copied by cur
Corrected by Jwa

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENTS OF ACETATE COST SHEETS FOR 1910 AND 1909

13 MOS.

Plant No. 1	Pounds produced in 1910 4040006 ✓ Average per day, 1910 11641 ✓ No. days operated 1910 347 ✓				Pounds produced in 1909 4031896 ✓ Average per day, 1909 10723 ✓ No. days operated 1909 376 ✓			
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.
GENERAL EXPENSE:-								
Insurance		1 92	1 92 ✓	000		2 06	2 06	000
Analysis	489 88	56 55	546 43 ✓	014	941 27	64 15	1005 42	025
Central Office Expense 053%	1478 31	816 61	2294 92 ✓	057	1265 30	593 01	1858 31	046
Taxes		238 23	238 23 ✓	005		242 30	242 30	006
Total	1968 19	1113 31	3081 50	076	2206 57	901 52	3108 09	077
MAINTENANCE:-								
Buildings	44 07	246 60	290 67	007	48 22	26 86	75 08	002
Tanks					8 08	19	8 27	000
Conveyor					73	1 44	2 17	000
Dry Floor					300 17	134 27	434 44	011
Piping	70 51	26 41	96 92	002	74 28	33 66	107 94	003
Boilers					309 91	180 82	490 73	012
Pans					18 38	75	19 13	000
Machinery		37 43	37 43	001	8 06	12 85	20 91	001
Cleaning Up	19 99		19 99	001		7 20	7 20	000
Total	134 57	310 44	445 01	011	767 83	398 04	1165 87	029
OPERATING:-								
Contractors	4870 31	13 06	4883 37 ✓	121	4975 32	22 43	4997 75	124
Machinery		18	18 ✓	000		1 00	1 00	000
Condensermen	732 86		732 86 ✓	018				
Firemen					1792 34	5 35	1797 69	045
Coal 675 tons @ 3.123, 1910		2108 94	2108 94 ✓	052	955 08	19788 95	20744 03	514
5750 tons 1909								
Electric Lamps & Wiring	6 29	27 48	33 77 ✓	001	4 87	6 19	11 06	000
Boilers					204 80	20 70	225 50	006
Lime		4618 83	4618 83 ✓	114		4124 40	4124 40	102
Handling Fuel	37 60	3 15	40 75 ✓	001				
Superintendent	347 29		347 29 ✓	009	62 55		62 55	002
No. 1 Chemical Power Expense 648%	5400 98	22561 42	27962 40 ✓	692				
Storing	25 38		25 38 ✓	001	137 04		137 04	003
Total	11420 71	29333 06	40753 77	1 009	8132 00	23969 02	32101 02	796
Cost of Production	13523 47	30756 81	44280 28	1 096	11106 40	25268 58	36374 98	902
DEPRECIATION:-								
Improvement Account		3110 46	3110 46	077		4841 70	4841 70	120
Appreciation of Inventory		108 15	108 15	002				
Total		3002 31	3002 31	075		4841 70	4841 70	120
Total Cost	13523 47	33759 12	47282 59	1 171	11106 40	30110 28	41216 68	1 022
SWITCHING EXPENSE:-								
1910								
Sacks 4040006 Lbs. 4031896 ✓	90	2483 43	2484 33	062		2983 47	2983 47	074
Loading 2835326 " 3991474 ✓	213 30		213 30	008	341 48		341 48	009
Switching " " " ✓	12 73	7 35	20 08	001	17 42	11 25	28 67	001
Total	226 93	2490 78	2717 71	067	358 90	2994 72	3353 62	083
Total Cost on Cars	13750 40	36249 90	50000 30	1 238	11465 30	33105 00	44570 30	1 105
Improvement Acct. not sunk off			4213 02			7323 48		
Yield per cord of wood				812 ✓				698 ✓
Smoke received from 49743 Cds., 1910								
Smoke received from 58196 Cds., 1909								

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THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1910 AND 1909

13 MOS.

Plant No. 2	Pounds produced 1910 2364763 ✓ Average per day, 1910 6776 ✓ No. days operated, 1910 349 ✓				Pounds produced 1909 2785324 ✓ Average per day, 1909 7180 ✓ No. days operated, 1909 388 ✓			
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.
GENERAL EXPENSE:-								
Analysis	276 23	33 61	309 84 ✓	013	471 23	29 35	500 58	018
Central Office Expense 030%	843 23	470 66	1313 89 ✓	056	658 20	307 26	965 46	035
Taxes		59 56	59 56 ✓	002		60 57	60 57	002
Total	1119 46	563 83	1683 29	071 ✓	1129 43	397 18	1526 61	055 ✓
MAINTENANCE:-								
Buildings	4 59	51	5 10	000		1 20	1 20	000
Tanks	5 05	3 01	8 06	000	11 27	4 28	15 55	001
Piping	4 59	3 85	8 44	001	41 86	37 54	79 40	003
Boilers					87 33	160 32	247 65	009
Pans	61 63	6 09	67 72	003				
Cleaning Up	7 39		7 39	000		7 20	7 20	000
Total	83 25	13 46	96 71	004 ✓	140 46	210 54	351 00	013 ✓
OPERATING:-								
Contractors	2878 57	2 14	2880 71	122 ✓	3304 95	8 21	3313 16	119
Firemen					1015 15	92	1016 07	037
Fuel 2463 tons, 1909					310 01	7855 31	8165 32	293
Electric Lamps & Wiring	2 47	18 06	20 53	001 ✓	5 19	5 63	10 82	000
Boilers					57 15	27 78	84 93	003
Lime		2642 00	2642 00	112 ✓				
Superintendent	197 13		197 13	008 ✓	31 20		31 20	001
No. 2 Chemical Power Expense 648%	3411 61	14430 47	17842 08	754 ✓				
Storing	18 00		18 00	001 ✓	81 51		81 51	003
Total	6507 78	17092 67	23600 45	998 ✓	4805 16	7897 85	12703 01	456
Cost of Production	7710 49	17669 96	25380 45	1 073 ✓	6075 05	8505 57	14580 62	524
DEPRECIATION:-								
Improvement Account		968 40	968 40	041		1049 10	1049 10	037
Appreciation of Inventory		74 55	74 55	003				
Total		893 85	893 85	038 ✓		1049 10	1049 10	037
Total Cost	7710 49	18563 81	26274 30	1 111 ✓	6075 05	9554 67	15629 72	561
SHIPPING EXPENSE:-								
Sacks 2364763 Lbs 2785324 Lbs.		1445 48	1445 48	061		2009 24	2009 24	072
Loading 2260254 " 2784031 "	187 28		187 28	008	206 49		206 49	007
Switching " " "	11 44	6 52	17 96	001	12 90	8 62	21 52	001
Total	198 72	1452 00	1650 72	070 ✓	219 39	2017 86	2237 25	080
Total cost on cars	7909 21	20015 81	27925 02	1 181 ✓	6294 44	11572 53	17866 97	641 ✓
Improvement Acct. not sunk off			1917 45				2885 85	
Yield per cord of wood				1567 ✓				1597 ✓
Smoke read. from 15090 Cds., 1910								
Smoke read. from 17442 Cds., 1909								

Remarks:-

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THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

STATEMENT OF SPECIAL CHEMICAL PRODUCTS

YEAR, 1910

PRODUCED & SHIPPED:-

		Unit Cost
Diamond Spirits	1974½ Gals.	.456
Special Spirits No. 1	2000 "	.455
Solvent No. 8	3811 "	.451
Solvent No. 12	41359 "	.489
Methyl Acetone A	154½ "	.467
Methyl Acetone AA	8999 "	.479
Solvent No. 24	51 "	.059

	Labor		Sup-plies		Total	
GENERAL EXPENSE:-						
Central Office Expense	68	91	272	21	341	12 ✓
Analysis	22	48	90	18	112	66 ✓
Total	91	39	362	39	453	78
MAINTENANCE:-						
Piping			44	18	44	18
OPERATING:-						
Chemist	450	00			450	00 ✓
No. 1 Chemical Power Exp.	57	93	246	51	304	44 ✓
Alcohol			23715	66	23715	66
C.P. Acetone			1505	24	1505	24
Chemicals			85	20	85	20
Rectifying Alcohol			73	11	73	11
Total	507	93	25625	72	26133	65
Cost of Production	599	32	26032	29	26631	61
SHIPPING EXPENSE:-						
Packages	88	80	1373	48	1462	28
Loading	33	57	2	81	36	38
Switching	4	12	2	29	6	41
Total	126	49	1378	58	1505	07
Grand Total	725	81	27410	87	28136	68

Remarks:-

Alcohol used in:-

Diamond Spirits	2058½ Gals. @	.4045	832.46
Special Spirits #1	2084 " @	"	842.98
Solvent No. 8	3972 " @	"	1606.67
Solvent No. 12	41120½ " @	.4051	16640.03
Methyl Acetone A	157½ " @	.41	64.48
Methyl Acetone AA	9188 " @	.406	3729.04

58880

23715.66

C.P. Acetone used in:-

Solvent No. 12	11957 Lbs @	.1259	1505.24
----------------	-------------	-------	---------

11957

1196

13153

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

COMPARATIVE COST OF OPERATING EMPLOYEE'S CLUB

	YEARS MOS.			
	1910		1909	
GENERAL EXPENSE:-				
Insurance	34	44	37	37
U.S. License	25	00	27	08
State License	500	00	541	67
Freight on Supplies	19	63	23	30
Liquor Bond	20	00	0	00
Printing & Stationery	0	00	5	50
Total	599	07	634	92
MAINTENANCE:-				
Equipment	41	26	105	94
Buildings	91	29	101	89
Lawn, Walks & Fences	6	41	47	68
Total	138	96	255	51
OPERATING:-				
Caretaker	720	00	781	18
Wood	45	26	10	14
Electric Lamps & Wiring	19	10	3	00
Ice	10	00	5	00
Central Power Expense	101	85		
Total	896	21	799	32
STOCK USED:-				
Beer	1452	32	1952	46
Liquor	481	32	647	49
Cigars	143	87	158	60
Cigarettes	83	23	109	43
Tobacco	52	21	45	87
Confectionery	71	19		
Total	2284	14	2913	85
Total Expenses	3918	38	4603	60
Total Receipts	3447	88	3995	09
Net Loss	470	50	608	51

STOCK ACCOUNT

Stock	Inv. Dec. 31st 1909		Purchd. during 1910		Total	Sales during 1910		Inv. Dec. 31st 1910		
Beer	23	17	1454	50	1477	67	1452	32	25	35
Liquor	96	80	544	19	640	99	481	32	159	67
Cigars	37	53	125	40	162	93	143	87	19	06
Cigarettes	32	26	85	38	117	64	83	23	34	41
Tobacco	6	50	49	07	55	57	52	21	3	36
Confectionery			77	61	77	61	71	19	6	42
Total	196	26	2336	15	2532	41	2284	14	248	27

The Cleveland-Cliffs Iron Company
Furnace Department

For the Year 1910.

LABOR STATEMENT

Tons per man per day. 1.318

Acct. No.	No. Men 1910	No. Men 1910	No. Days	Amount	Rate per Day		Acct. No.	No. Men 1909	No. Men 1910	No. Days	Amount	Rate per Day	
					This Year	Last Year						This Year	Last Year
FURNACE													
Blowing Engine Engineers	2	2	730	2044 05	2 80	2 73							
Founders	2	2	768	2751 00	3 56	3 53							
Keepers	2	2	709	1737 03	2 45	2 38							
Helpers	8	8	23097	5935 54	2 11	2 04							
Top Fillers	4	4	13957	2861 42	2 05	1 93							
Bottom Fillers	14	14	47716	9452 67	1 98	1 89							
Car Pushers	2	2	5362	1047 52	1 95	1 93							
Iron Grader	1	1	365	720 00	1 97	1 91							
Iron Handlers	8	6	20966	6336 42	3 02	2 22							
Coal Forkers	12	12	41919	8595 39	2 05	1 97							
Cinder Snappers	4	2	8222	1656 22	2 02	1 88							
Laboratory Boy	1	1	365	960 00	2 63	2 63							
Total	60	56	195609	44097 28	2 25	2 07							
Pro. Cent. Off. Expense		5	16024	7090 06	4 42								
" " Power		2	8433	1753 58	2 08								
" Miscel Labor		18	46106	10315 94	2 24								
Total as per Cost Sheet		76	266172	63256 84	2 26								
ALCOHOL PLANT NO. 1													
Superintendent			1/2	795	325 60	4 11							
Stillmen	7	7	23555	5105 39	2 13	2 06							
Cooper			1/2	1325	243 75	1 83							
Condensermen	2	1	4015	732 87	1 83	1 70							
Total	9	8 1/2	2970	6407 61	2 16								
Pro. Chief Chemist			1/2	377	462 19	12 33							
" Cent. Off. Expense			1/2	3147	1380 58	4 42							
" No. 1 Chem. Power			3 1/2	12925	2716 74	2 10							
" Miscel. Labor			1 1/2	5845	1311 11	2 24							
Total as per Cost Sheet		15	52004	12278 23	2 26								
ALCOHOL PLANT NO. 2													
Superintendent				433	179 93	4 11							
Stillmen	3	3	12641	2811 39	2 22	2 10							
Cooper			1/2	1154	213 72	1 84							
Total	3	3 1/2	14223	3205 09	2 25								
Pro. Chief Chemist				205	252 39	12 33							
" Cent. Off. Expense			1/2	1729	760 66	4 42							
" No. 2 Chem. Power			2 1/2	9122	1853 35	2 03							
" Miscel Labor			1 1/2	386	865 53	2 24							
Total as per Cost Sheet		6	29144	6927 57	2 28								
ACETATE PLANT NO. 1													
Superintendent				845	347 29	4 11							
Contractors	5	5	18375	4867 30	2 65	2 51							
Condensermen			1	4016	732 86	1 93							
Total	5	6 1/2	23236	5947 95	2 56								
Pro. Chief Chemist				299	489 88	12 33							
" Cent. Off. Expense			1	334	1477 24	4 42							
" No. 1 Chem. Power			7 1/2	25708	5400 92	2 10							
" Miscel Labor			1/2	1933	434 23	2 24							
Total as per Cost Sheet		15 1/2	54616	12760 40	2 52								
ACETATE PLANT NO. 2													
Superintendent				477	197 13	4 11							
Contractors	3	3	10485	2878 57	2 75	2 81							
Total	3	3	10962	3075 70	2 81								
Pro. Chief Chemist				225	276 23	12 33							
" Cent. Off. Expense			1/2	1904	843 23	4 42							
" No. 2 Chem. Power			4 1/2	16722	3411 81	2 03							
" Miscel Labor			1/2	1374	302 44	2 24							
Total as per Cost Sheet		8 1/2	31257	7909 21	2 53								
SPECIAL CHEMICAL PRODUCTS													
Chemist			1/2	1095	450 00	4 11							
Cooper				45	83 53	1 96							
Total			1/2	1545	533 53	3 45							
Pro. Chief Chemist				18	22 43	12 33							
" Cent. Off. Expense				156	68 91	4 42							
" No. 1 Chem Power				275	57 93	2 10							
" Miscel Labor				195	42 96	2 24							
Total as per Cost Sheet			1/2	2189	725 81	3 32							
OPERATING RENTED BUILDINGS													
Central Power Expense				29	7 08	2 44							
Miscellaneous Labor			1/2	1067	236 56	2 24							
Total			1/2	1096	243 64	2 22							
CENTRAL OFFICE EXPENSE													
Central Office Pay Roll		17	6055	27403 36	4 53								
Pro. Cent. Power Expense				234	65 36	2 35							
" Miscel Labor		1	2814	631 40	2 24								
Total		18	6369	28100 92	4 42								
Chief Chemist		1	365	4500 00	12 33								
KILN PLANT													
Colliers	5	5	1778	5 3868 40	2 18	2 12							
Whitewashers	2	2	667	1368 98	2 05	1 98							
Packers	17	16	4910	3 11567 13	2 35	2 29							
Packer Foreman	1	1	368	840 00	2 30	2 30							
Cleaner & Scree	1	2	630	1382 04	2 03	2 28							
Braise Cartmen	2	1	368	748 33	2 05	1 75							
Wood Handlers	2	2	621	1411 90	2 27	2 31							
Total	30	29	9395	9 21184 76	2 25	2 20							
Pro. Miscel. Labor			3	1013 8	2272 57	2 24							
Total			32	10409 7	23457 33	2 25							
RETORT PLANT													
Foreman	1	1	364	900 00	2 46	2 46							
Fireman	4	4	1400	2940 00	2 10	2 03							
Winchman	1	1	348	696 00	2 00	1 93							
Wood Loaders	6	6	2097	4196 00	2 00	1 93							
Wood Splitters	4	4	1391	2782 00	2 00	1 93							
Fuel Cartman	1	1	363	744 15	2 05	1 98							
Total	17	17	5983	12258 15	2 06	1 99							
Pro. Cent. Pow. Exp.			1	4 06	2 35								
" Miscel Labor			2	714 9	1605 05	2 24							
Total			19	6679 6	13367 26	2 08							
EMPLOYEES CLUB													
Steward	1	1	365	720 00	1 97	1 97							
Pro. Cent. Pow. Exp.				23 1	65 86	2 35							
" Miscel Labor				35 9	80 72	2 24							
Total	1	1	429	866 58	2 02								
ORE & LIMESTONE													
Miscel Labor			5 1/2	1723 6	3861 40	2 24							
OTHER ACCTS.													
MISGL LABOR													
Wood			3 1/2	1039 8	2336 45	2 24							
Supplies			2	727 3	1638 61	2 24							
Stock of Coal			1	409 1	913 52	2 24							
Accounts Receiv.				57 4	129 86	2 24							
Pioneer Iron Co.			11	3977 1	19478 20	4 30							
Other Accts.			2	632	1416 04	2 24							
Grand Total Labor Statement as per Cost Sheet													
			201	69732	4173059 95	2 48							
MISCELLANEOUS													
Barn Boss	1	1	209	287 50	1 37	1 64							
Teamsters	2	2	534 3	1311 12	2 05	1 88							
Blacksmith	1	1	305 9	902 37	2 95	2 88							
" Helpers	1	1	302 7	605 55	2 00	1 93							
Machinest	2	2	634 1	2188 43	3 45	3 36							
" Helpers	8	7	2553 7	5656 16	2 21	2 11							
Carpenters	7	5	1555 4	3917 33	2 46	2 43							
Loco Engineer	1	1	383 5	1132 24	2 95	2 88							
Brakeman	1	1	361 2	1031 34	2 85	2 78							
Crane Engineer			1	260 4	625 50	2 50							

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

CENTRAL POWER PLANT EXPENSE

Year, 1910

	Labor	Sup- plies	Total
MAINTENANCE:-			
Boilers	399 35	464 15	863 50
Pumps	276 41	69 14	345 55
Generators	11 53	85	12 38
Buildings	18 33	3 37	22 20
Total	706 12	537 51	1243 63
OPERATING:-			
Firing	1473 95	1 86	1475 81
Oilers	1788 49		1788 49
Boilers	214 66	203 42	418 08
Pumps		322 11	322 11
Generators		207 44	207 44
Electric Lamps & Wiring	4 38	20 90	25 78
Steam Coal 88 tons @ 3.241		285 21	285 21
Cordwood 167 cds. @ 2.856		477 07	477 07
Handling Fuel	114 07	17 96	132 03
Total	3596 05	1535 97	5132 02
Grand Total	4302 17	2073 48	6375 65
DISTRIBUTION OF EXPENSES:- Per Cent			
#1 Chemical Power Exp. 4.686	1749 17	954 73	2703 90
#2 Chemical Power Exp. 4.216	551 94	300 65	852 59
Shop Expense 0.025	62 51	34 62	97 13
Office Expense 0.026	65 86	35 99	101 85
Operating Employees Club 0.026	65 86	35 99	101 85
Switching Expense 0.015	38 25	20 86	59 11
Optg. Rented Buildings 0.003	7 08	3 98	11 06
Laboratory Expense 0.001	2 82	1 63	4 45
Earn Expense 0.000	1 04	62	1 66
Retort Operating 0.002	4 06	2 13	6 19
Total	2548 59	1391 20	3939 79
Furnace Operating	1753 58	682 28	2435 86
Total as above	4302 17	2073 48	6375 65

Remarks:-

The above distribution to Operating costs and expenses is based on a factor which is determined by the actual steam, water and electric light power consumed, as approved by the Operating Department February 5th., 1910.

BOILERS

No. of boilers in Battery 5
Horsepower 625
Type of boilers Sterling water tube
Name of makers The Sterling Co.
Number in operation 5

GENERATORS

Number of Generators 2
Number operated 2
Type of generator Westinghouse, 75KW,
220 volts, D.C.
Name of maker The Westinghouse Co.

PUMPS

Number of pumps 2
Capacity per minute 3472 Gals, 5 Million
Gals. in 24 hours
Number operated 2
Type of pump Prescott triple expansion
Name of maker F.M. Prescott Steam
Pump Co.

Made by J. S. A.
Figured by ✓
Copied by C. S. A.

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

NO. 1 CHEMICAL POWER EXPENSE

YEAR, 1910.

	Labor	Sup- plies	Total	
MAINTENANCE:--				
Boilers	645 72	7188 56	7834 28	
Pumps	174 31	124 12	298 43	
Buildings	193 08	150 74	343 82	
Total	1013 11	7463 42	8476 53	
OPERATING:--				
Engineers	1540 94		1540 94	✓
Firing	2926 27	12 93	2939 20	✓
Steam coal 7894 tons @ 3.124		24661 69	24661 69	✓
Cordwood 506 cds. @ 2.807		1420 01	1420 01	✓
Handling Fuel	871 46	24 35	895 81	✓
Boilers	241 47	122 33	363 80	✓
Pumps		152 33	152 33	✓
Electric Lamps & Wiring		32 43	32 43	✓
Central Power Expense	1749 17	954 73	2703 90	✓
Total	7329 31	27380 80	34710 11	✓
Grand Total	8342 42	34844 22	43186 64	
DISTRIBUTION OF EXPENSES:-- Per Cent				
No. 1 Alcohol Operating 326	2716 74	11350 10	14066 84	
No. 1 Acetate Operating 648	5400 98	22561 42	27962 40	
Special Chemical Prods 007	57 93	246 51	304 44	✓
No. 2 Chem. Power Exp. 019	166 77	686 19	852 96	
Total as above	8342 42	34844 22	43186 64	

Coal Exp
2573 165
5118 328
55 14
150 49
7894 506

Remarks:--

The above distribution to Operating costs and expenses is based on a factor which is determined by the actual steam, water and electric power consumed, as approved by the Operating Department February 5th., 1910.

MAINTENANCE-Boilers:-- High charges due to replacing four boilers

No. of boilers in battery 7
No. of boilers in commission 7
Horsepower 875
Type of boilers Tubular
Name of makers Bass Fdry. & Machine Co.

From central power

Alcohol	2573	19.9	=	2592.9 ✓
Acetate	5118	39.5	=	5155.5 ✓
Specials	55	.4	=	55.4 ✓
No. 2 Power	150	1.2	=	151.2 ✓
Total	7894	61		7955.0

THE CLEVELAND-CLIFFS IRON CO.
 Finance Department

THE CLEVELAND-CLIFFS IRON CO.
 NO. 5

YEAR 1910

THE CLEVELAND-CLIFFS IRON CO.
 Furnace Department

NO. 2 CHEMICAL POWER EXPENSE

Year, 1910

	Labor		Sup- plies		Total	
MAINTENANCE:-						
Boilers	368	85	380	09	748	94
Pumps	164	35	131	15	295	50
Buildings	27	57	6	95	34	52
Total	560	77	518	19	1073	96
OPERATING:-						
Firing	2921	95	14	21	2936	16
Steam coal 6581 tns. @ 3.110			20461	93	20461	93
Handling Fuel	878	05	58	75	936	80
Boilers	183	08	62	43	245	51
Pumps			124	93	124	93
Electric Lamps & Wiring	2	40	41	34	43	74
Central Power Expense	551	94	300	65	852	59
No. 1 Chemical Power Exp.	166	77	686	19	852	96
Total	4704	19	21750	43	26454	62
Grand Total	5264	96	22268	62	27533	58
DISTRIBUTION OF EXPENSE:-						
					<u>Per</u>	<u>Cent</u>
53.2	4.7	#2 Alcohol Operating	1853	35	7838	15
98	14.3	#2 Acetate Operating	3411	61	14430	47
151.2	19.0	Total as above	5264	96	22268	62
					9691	50
					17842	08
					27533	58

Remarks:-

The above distribution to Operating costs and expenses is based on a factor which is determined by the actual steam, water and electric light power consumed, as approved by the Operating Department February 5th., 1910.

No. of boilers in battery	4
Horsepower	640
Type of boilers	Sterling water tube
Name of makers	The Sterling Co.
No. in operation	4

$$\frac{6581}{550}$$

12

THE CLEVELAND-CORFES IRON CO.
Furnace Department

STATEMENT OF SHOP LABOR, 1910

Month	Pay Roll	Machine Shop		Total Debit	Total Hours	Cost per Hour
		Sup- plies				
Jany.	697 16	85 68		782 84	2752	.2844
Feby.	567 56	70 11		637 67	2238	.2848
March	706 16	23 38		729 54	2886	.2528
April	644 39	36 21		680 60	2562	.2656
May	579 14	63 01		642 15	2261	.2840
June	701 81	109 91		811 72	2858	.2840
July	595 62	44 27		639 89	2350	.2723
Aug.	671 20	23 17		694 37	2708	.2564
Sept.	641 69	48 04		689 73	2507	.2751
Oct.	771 16	103 73		874 89	3263	.2681
Nov.	639 07	75 29		714 36	2627	.2724
Dec.	692 19	49 50		741 69	2921	.2539
Total	7907 15	732 30		8639 45	31928	.2705
<u>Blacksmith Shop</u>						
Jany.	118 65	5 95		124 60	474	.2629
Feby.	116 50	22 12		138 62	469	.2905
March	133 35	7 13		140 98	541	.2308
April	122 97	7 35		130 32	495	.2633
May	126 22	7 91		134 13	510	.2630
June	130 30	7 53		137 83	528	.2610
July	121 96	6 09		128 05	492	.2603
Aug.	133 01	9 13		142 14	534	.2661
Sept.	117 33	7 63		124 96	476	.2625
Oct.	137 32	2 87		140 19	556	.2520
Nov.	121 55	4 94		126 49	490	.2581
Dec.	128 01	4 05		132 06	521	.2535
Total	1507 67	92 70		1600 37	6086	.2630
<u>Carpenter Shop</u>						
Jany.	375 05			375 05	1490	.2517
Feby.	375 05	26 93		401 98	1490	.2697
March	392 37	5 09		397 46	1560	.2547
April	377 30			377 30	1520	.2483
May	348 17			348 17	1395	.2495
June	315 32	78		316 10	1288	.2454
July	221 90			221 90	900	.2466
Aug.	283 40	11 02		294 42	1130	.2605
Sept.	346 01	38		346 39	1437	.2410
Oct.	290 90	14 23		305 13	1268	.2406
Nov.	258 05	6 77		264 82	1088	.2434
Dec.	233 71	10 92		244 63	982	.2476
Total	3817 23	76 12		3893 35	15554	.2503

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THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF STABLE EXPENSES FOR 1910 AND 1909

	1910			Cost per Horse Per Day	13 MOS. 1909			Cost per Horse Per Day
	Labor	Sup-plies	Total		Labor	Sup-plies	Total	
H a y		1299 55	1299 55	304		945 00	945 00	172
Oats	8 07	1157 41	1165 48	273		1958 80	1958 80	356
Feed & Bran	3 60	107 05	110 65	026		63 00	63 00	015
Corn		193 30	193 30	045		52 50	52 50	010
Straw		97 70	97 70	023		120 00	120 00	022
Oils & Grease		5 13	5 13	001		13 97	13 97	002
Combs & Brushes		13 48	13 48	003		4 61	4 61	001
Shovels, Brooms & Pails		8 16	8 16	002		11 23	11 23	002
Medicine		35 87	35 87	008		32 03	32 03	006
Veterinary Service		30 00	30 00	007		100 00	100 00	018
Shoeing	108 73	113 70	222 43	052	148 75	133 71	282 46	052
Repairs Carts, Wagons & Sleighs	93 96	65 07	159 03	037	206 83	99 67	306 50	056
Repairing Carriages & Cutters	27 87	5 59	33 46	008	116 37	77 62	193 99	035
Repairing Harness	4 79	174 99	179 78	042	1 20	129 14	130 34	024
Repairing Watering Trough		3 29	3 29	001	23 55	5 98	29 53	005
Repairing Telephone	2 05		2 05	000	2 61	6 52	9 13	002
Electric Lamps & Wiring	1 29	15 81	17 10	004		2 74	2 74	001
Repairing Buildings	51 05	94 78	145 83	034	84 96	31 13	116 09	020
Insurance		2 04	2 04	000				
Barn Boss	337 50		337 50	079	520 00		520 00	095
Central Power	1 04	62	1 66	000				
Total	639 95	3423 54	4063 49	949	1104 27	3787 65	4891 92	894
Distribution:-		No. Horses	No. Days		No. Horses	No. Days		
Horses on cinder carts		1	369		3	1188		
Horses on Sand and Clay					1	396		
Horses on Braize cart		1	365		1	396		
Horses on retort fuel cart		1	365		1	396		
Horses on transfer car		2	673		1	396		
Horses on office rig		2	730		2	792		
Horses on team work		3	877		2	757		
Horse for Superintendent's use		1	465		1	396		
Horses for hauling sand		2	436		2	760		
Total		13	4280		14	5477		

Remarks:-

1910:- Increased cost per horse per day due to extra horses and less horse hours worked account of using crane to handle cinders.

All the Construction account charged off

1909:- Increased cost per horse per day is due to increased cost of feed stuff

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The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

COMPARATIVE STATEMENT OF LABORATORY EXPENSES

13 MOS.

	1910		1909	
<u>SALARIES:-</u>				
E. J. Hudson	4500	00	4875	00
E.F. Buchanan			1950	00
A.S. Kittleberger	2300	00	2491	66
J.H. Matthes			437.	49
Richard Barry	960	00	1040	00
Elmer Frei	900	00	885	00
Chas. Carr			300	78
Robert Wright	855	93	120	00
B. E. Broadwell			675	00
C. E. Ott	1800	00		
Sidney Katzenstein	450	00		
Total	11765	93	12774	93
<u>SHOP LABOR:-</u>				
Repairs to Apparatus	52	12	50	32
✓ <u>Central Power Expense</u>	36	78		
<u>SUPPLIES:-</u>				
Chemicals, apparatus Etc	4071	69	3579	35
<u>TRAVELING:-</u>				
E.J. Hudson's traveling expenses	609	85		
Grand Total	16536	37	16404	60
<u>DISTRIBUTION:-</u>				
No. 1 Furnace Pig Iron Cost Sheet, C.C.I. CO.	1798	73	2025	06
No. 2 Furnace Pig Iron Cost Sheet Pioneer Iron Co.	2516	64	2891	98
Carp Pig Iron Cost Sheet " " "			14	58
Alcohol Plant No. 1 Cost Sheet C.C.I. Co.	526	19	1626	57
Alcohol Plant No. 2 Cost Sheet C.C.I. Co.	289	53	1113	34
Pioneer Alcohol Cost Sheet	1478	32	3346	13
Pioneer Acetate Cost Sheet	1233	22	1475	03
No. 1 Acetate Cost Sheet C.C.I. Co.	546	43	1005	42
No. 2 Acetate Cost Sheet C.C.I. Co.	309	84	500	58
Formaldehyde Cost Sheet Pioneer Iron Co.	277	90	772	47
Acetone Cost Sheet Pioneer Iron Cos	981	99	470	19
Acetic Acid Cost Sheet Pioneer Iron Co.	232	85		
Refined Tar Cost Sheet Pioneer Iron Co.	7	21		
Refined Tar Idle Expense Pioneer Iron Co.	3	06		
Chemical Idle Expense			552	70
Acetate Idle Expense			197	11
Relinings & Renewals			413	44
Special Chemical Products Pioneer Iron Co.				
Analysis	890	87		
Chemist	4880	93		
Special Chemical Products C.C.I. Co.				
Analysis	112	66		
Chemist	450	00		
Total as above	16536	37	16404	60

Balance of Sidney Katzenstein's salary charged to Chemical Superintendent (1050.00)

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF CENTRAL OFFICE EXPENSE

Acct. No.	Account	1910	13 MOS. 1909
1	Salaries	21897.36	21747.53
2	Printing & Stationery	1516.66	1499.72
3	Postage	458.46	549.78
4	Office Furniture & Fixtures	794.98	264.73
	a. Furniture & Fixtures	378.87	
	b. Apparatus	396.11	
	c. Repairs	20.00	
5	Office Expense	2049.35	1094.75
	a. Petty Office Expense	1202.41	
	b. Papers & Periodicals	144.25	
	c. Moving, Changing etc.	267.06	
	d. Livery Hire	248.00	
	e. Dues paid Trade Associations	25.00	
	f. Extra Expense taking Inventory	63.83	
	g. Insurance on Office Property	98.80	
6	Telephone & Telegraph	2759.61	2199.29
	a. Line Rentals	537.01	
	b. Telephone Tolls & Telegrams	1588.60	
	c. Salaries and Service	435.00	
	d. Local Installation & Repairs	199.00	
7	Rentals	1709.70	704.91
	b. Rental Agent's house etc.	1709.70	
8	Legal Expense	1105.15	1195.03
	a. Proportion of Salaries	906.18	
	b. Proportion of Expenses	148.97	
	c. Retainer's fees	50.00	
9	Traveling & Entertainment	2025.91	2931.69
	a. Car Fare, Hotel & Expenses	2025.91	
10	Donations	35.00	421.06
	a. Contributions, Charitable etc.	35.00	
11	General Welfare	830.50	706.51
	a. Prizes etc.	45.00	
	d. Salary Visiting Nurse	310.00	
	f. Miscellaneous Expenses	5.00	
	g. Expense Employee's Club	470.50	
13	Stable Expense	2635.74	2767.21
	a. Barn Expense (Farelli horses)	1705.43	
	b. Proportion Stable Expense	930.31	
14	Exchange	309.13	288.33
17	Mechanical Engineering	4798.74	4527.49
	a. Salaries	3600.00	
	b. Traveling	1081.86	
	c. Supplies	116.88	
21	Special & General Expense	44.98	1772.62
	a. Special payments	6.43	
	d. Special Expenses	38.55	
	Total	42971.27	42645.90

DISTRIBUTION

THE C.C.I. CO.:-

Furnace General Expense	10712.15	12560.68
Pig Iron Cost Sheet		
Alcohol General Expense No. 1	2187.30	3321.06
Alcohol Cost Sheet No. 1		
Alcohol General Expense No. 2	1187.40	1929.43
Alcohol Cost Sheet No. 2		
Acetate General Expense No. 1	2294.92	1858.31
Acetate Cost Sheet No. 1		
Acetate General Expense No. 2	1313.89	965.46
Acetate Cost Sheet No. 2		
Special Chemical Products	341.12	

PIONEER IRON CO.:-

Furnace General Expense	11222.69	17537.62
Pig Iron Cost Sheet		1485.65
Relinings & Renewals		
Alcohol General Expense	4317.97	3865.79
Alcohol Cost Sheet		641.59
Chemical Idle Expense		
Acetate General Expense	3612.42	2013.59
Acetate Cost Sheet		204.23
Acetate Idle Expense		
Formaldehyde General Expense	799.76	802.87
Formaldehyde Cost Sheet		
Acetone General Expense	2904.49	1650.82
Acetone Cost Sheet		
Acetic Acid General Expense		
Acetic Acid Cost Sheet	827.87	
Refined Tar General Expense		
Refined Tar Cost Sheet	21.13	
Refined Tar Idle Expense	6.82	
Special Chemical Products	1221.34	

Carp Furnace General Expense		3808.80
Carp Pig Iron Cost Sheet		

Total as above

42971.27 / 42645.90

Made by S. C. W. A.
Entered by "
Copied by S. C. W. A.
Checked by "

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

ANNUAL COMPARATIVE STATEMENT OF DONATIONS

	By Whom and When <u>Authorized</u>	<u>1910</u>	<u>13 MOS.</u> <u>1909</u>
Mrs. A.N. Sinclair, Employees widow House rent	A. Farrell, 2/27/09		36.00 ✓
Rapid River Schools, Pictures	W.G. Mather 3/ 8/09		25.00 ✓
E. Noseworthy, Sec'y., Kipling Shooting Club	A. Farrell, 1/ 7/08		52.93 ✓
Salvation Army, Annual donation	A. Farrell 4/22/09	25.00	25.00
Mrs. H.P. Harris, Treas., Visiting Nurse Association	W.G. Mather		110.00
E.S. Rice, Chairman Entertaining Legislators	A. Farrell 2/ 3/09		25.00
Bat Dillion, old employee Acct. rheumatism	A. Farrell 2/ 7/09		30.52
M. Fox, Treas. Marquette Base Ball club	A. Farrell, 4/10/09		5.00
T.J. Maney, Fireman's dance	A. Farrell 11/ 2/09		10.00
Robt. P. Byrn, Treas. Memorial day expenses	A. Farrell 5/25/09		10.00
F.J. Jennison, Sec'y., Extension of Breakwater	W.G. Mather 11/ 4/09		50.00
Mrs. Frank Vonk, old employee Hospital expenses	A. Farrell 9/10/09		16.86
Mrs. G.W. Shaw, Treas., Marquette Finnish band	A. Farrell, 3/ 4/10	10.00	
		<hr/>	<hr/>
	Total	35.00 ✓	396.31

Payments to visiting nurse also charged to acct. No. 11 in 1910.

421.06
396.31
24.75

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

COMPARATIVE STATEMENT OF LEGAL EXPENSES, YEARS 1910-1909

	<u>1910</u>	<u>13 MOS.</u> <u>1909</u>
Salary of Solicitor, W. P. Belden	906.18	960.33
Expenses of Solicitor	169.87	110.95
Expense of W.P. Belden, Str. Ionia case		85.43
" " " " John Maki case		12.95
" " " " Nester Hargue case		6.77
" " Sheriff Str. Ionia case		19.25
Retainer's fee, W. T. Potter	<u>50.00</u>	<u> </u>
Total	1126.05	1195.68 ✓
 <u>Charged to:-</u>		
Central Office Expense	1105.15 ✓	1195.03 ✓
Accounts Receivable	20.90	
Superior Charcoal Iron Co.	14.60	
Pioneer Iron Co., (Alcohol General Exp.)	3.00	
Whitman case Whitman Case	3.00	
Pioneer Iron Co., (Improvement, Sulph. Acid Plt)	3.30	
Fred A. Morse, Treas.		<u>.65</u>
Total as above	1126.05 ✓	1195.68

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL STATEMENT OF PENSIONS PAID YEAR 1910.

Record No.	Name	Date Began or Ended	Rate Per Month	Year 1910	Previous Year	Total To Date
1	W. H. Fuller	Aug., 1910	22.35	111.75		111.75

*Not taken up in Central office expense account 15
in 1910. Will be included in 1911 charges*

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF FIRE INSURANCE AS OF DECEMBER 31st., 1910

Policy Number	Company	Agent	Property Insured	Location	Term	Expiration	Amount of Policy	Premium	Acc'd. Cur't. Year	Acc'd. Prevs. Years	Total Acc'd Ins.	Balance	Property	Amount	Rate	Loss	
527	Hamberg-Breman	1st. Natl. Bank, Negaunee	Stock of Supplies	Furnace	3 Yrs.	Dec. 1st/11	1666 67	50 84	16 92	18 41	35 33	15 51					
1011	Saint Paul	" " " "	" "	"	" "	" "	1666 67	50 84	11 24	18 41	29 65	#					
1039	" "	" " " "	" "	"	3 Mos.	" " /10	1666 67	4 24	4 24		4 24	0 00					
1041	" "	" " " "	" "	"	1 Year	" " /11	1666 67	16 95	1 44		1 44	15 51	Supplies	5000.	3.05	None	
161260	Westchester	" " " "	" "	"	3 Yrs.	" " "	1666 67	50 83	16 92	18 40	35 32	15 51					
			(5 Double Tenement Houses Club House & Contents Acetate Storage House Chemical Supplies Car Shop Office & Laboratory Bldg. Office & Laboratory Contents 31 Charcoal Cars	"	"	"							5 Dbl. Tent. Ho. Club Ho. & Conts. Acetate Storage Ho. Chemical Supplies Car Shops Office & Laby. Bldg Office & Laby. Cts. 31 Charcoal Cars	4000. 3000. 175. 250. 200. 2000. 700. 3100.	1.50 3 45 3 25 3 75 6 87 3 00 3 00 4 00	None None None None None None None None	
1009	Saint Paul	" " " "	" "	"	3 Yrs.	Dec. 1st/11	4475 00	132 44	29 38	47 87	77 25	#					
1042	" "	" " " "	" "	"	3 Mos.	" 1st/10	4475 00	11 04	11 04		11 04	0 00					
1043	" "	" " " "	" "	"	1 Year	" " /11	4475 00	44 15	3 67		3 67	40 48					
526	Hamberg-Breman	" " " "	" "	"	3 Yrs.	" " "	4475 00	132 43	44 08	47 87	91 95	40 48					
161259	Westchester	" " " "	" "	"	3 "	" " "	4475 00	132 44	44 08	47 88	91 96	40 48					
			(20 Double Tenement Houses Founder's House Barn Barn Boss' House Ass't Auditor's Residence Chief Engineer's Residence	"	3 Yrs.	"							20 Dbl. Tent. Ho's. Founder's House Barn Barn Boss' House Ass't. Audtrs. Res. Chief Eng'rs. Res.	14000. 1500. 1000. 500. 1000. 1000.	60 60 60 60 60 60	None None None None None None	
92302	Phoenix	Peter White & Co.	" "	Gladstone	" "	Dec. 1st/12	19000 00	114 00	38 04	3 05	41 09	72 91					
607	Mannheim	Peter White & Co.	Launch	Marquette	1 Year	Nov. 19th/10	1000 00	25 00	22 88	2 12	25 00	0 00	Launch	1000.	3 00	None	
1168	"	" " "	"	"	1 Year	" " /11	1000 00	30 00	2 50		2 50	27 50	"				
882173	National	" " "	Locomotive	Furnace	3 Yrs.	Dec. 1st/12	1000 00	10 00	3 36	20	3 56	6 44	Locomotive	1000.	33 1/3	None	
								805 20	249 79	204 21	454 00	274 82					
Less unearned premium on cancelled policies								76 38									
								728 82									

Distribution of Charges

Switching	3.36	X	3 3 6
Supplies (Cal 50.23)	50.76		
Rented Buildings	55.93	✓	
Employees' Club	34.44	✓	
Acetate Plant No. 1	1.92	✓	
Chemical Supplies	3.12		
Shops	4.56		
Central Office	27.00		
Launch	25.38	✓	25.38
Charcoal	41.28	✓	
Barn Account	2.04	✓	
Total	249.79	✓	

Remarks:-

* Policies cancelled

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

STATEMENT OF UNINSURED PROPERTY DECEMBER 31st., 1910.

<u>Name of Property</u>	<u>Value</u>	<u>Remarks</u>
Furnace Stack and Stoves	12500.00	Incombustible
Cast House and Boiler House	28000.00	"
Stock House	7000.00	"
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 buildings	60000.00	"
Ice House	400.00	A possible risk
Locomotive coal shed	250.00	A wooden building
Lime shed	250.00	" "
Barrel house (contents insured)	1200.00	" "
Tool shanty	150.00	" "
No. 1 Acetate Building & 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	" "

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

RECEIVED

APR 1 - 1911

ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES
(Account No. 106)

Ask. _____ Ans. _____

Acct.
No.

1910

1909

Pig Iron Cost Sheet

a. Mike Yusko

350.00

1170.30

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF TAXES FOR 1910 AND 1909

	1910			13 MOS. 1909		
	Acres	Valuation	Taxes	Valuation	Taxes	
CITY OF GLADSTONE:-						
City Lots & Gov't. Lot. No. 3		6725 00	330 60	6585 00	288 47	
Founder's House		400 00	15 95	400 00	16 08	
Assistant Auditor's Residence		1000 00	39 92	1000 00	40 17	
Chief Engineer's Residence		1400 00	118 53	1200 00	48 18	
Barn Boss' House		500 00	19 95	500 00	20 03	
Total		10025 00	524 95 ✓	9685 00	412 93	
BRAMPTON TOWNSHIP:-						
Furnace Plant, Real Estate	39.20	180000 00	4374 11	180000 00	4448 30	
Furnace Plant, Personal		65000 00	1579 23	65000 00	1606 40	
Limestone Quarry	40.00	100 00	2 44	100 00	2 48	
Total	79 20	245100 00	5955 78 ✓	245100 00	6057 18	
Grand Total	79 20	255125 00	6480 73 ✓	254785 00 ✓	6470 11	

DISTRIBUTION OF TAXES

	1910		1909	
CITY OF GLADSTONE:-				
W. G. Mather, Treasurer	330 60		288 47 ✓	
Operating Rented Buildings	194 35 ✓		124 46 ✓	
Total		524 95 ✓		412 93
BRAMPTON TOWNSHIP:-				
Furnace General Expense	3037 45 ✓		3089 16 ✓	
Alcohol General Expense No. 1	1786 73 ✓		1817 14 ✓	
Alcohol General Expense No. 2	595 58 ✓		605 71 ✓	
Acetate General Expense No. 1	238 23 ✓		242 30 ✓	
Acetate General Expense No. 2	59 56 ✓		60 57 ✓	
Operating Rented Buildings	238 23 ✓		242 30 ✓	
Total		5955 78 ✓		6057 18
Grand Total		6480 73 ✓		6470 11

Remarks:-

Taxes on city lots and Government Lot No. 3 include \$48.11 Sewer tax - year 1910
Taxes on Chief Engineer's residence include 62.67 Sewer tax - year 1910

6480.73
330.60
6150.13

ma

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING FISCAL YEARS 1910 AND 1909

Account of	Grade	Year 1910			13 MOS. Year 1909		
		Net Tons-Lbs.	Price	Amount	Net Tons-Lbs.	Price	Amount
From Lake Erie Ports	Yough 2	13613-1700	2 250	30631 17	16581- 700	1 97	32666 75
" Pittsburgh Coal Company	"				114-1300	2 965	339 98
" Cabin Creek Con. Coal Co.	Gas				139-0700	750	104 51
" New River Con. Coal Co.	Smokeless				154-1200	850	131 42
" " " " " "	Kenewah				148-0000	800	118 40
Total		13613-1700	2 250	30631 17	17137 1900	1 947	33361 06
Lake Freight				350		290	4974 42
Switching from Gladstone Dock				226		090	1535 93
Switching in Furnace yard				021		009	160 76
Unloading from boat				150		145	2487 20
Reloading				537		178	3040 27
Handling				051		014	246 43
Analysis				005		010	176 30
Bonuses				030			
Insurance				004		002	31 78
Rail Freight						063	1083 86
Total		13613-1700	3 624	49333 90	17137 1900	2 748	47998 01
Inventory end of fiscal year		11142-0550	2 537	28273 93	11691 0650	3 192	37322 70
Grand Total		24756-0250	3 135	77607 83	28829-0550	2 928	84420 71
<u>Charged to:-</u>							
Central Power Plant		88-0000	3 241	285 21			
No. 1 Chemical Power Plant		7894-0000	3 124	24661 69			
No. 2 Chemical Power Plant		6581-0000	3 110	20461 93			
Furnace					84-0000	2 912	244 61
Chemical Plant No. 1					1051-0000	3 168	3329 84
Chemical Plant No. 2					5004-0000	3 202	16021 21
Acetate Plant No. 1		675-0000	3 123	2108 94	5922-0000	3 158	18704 79
Acetate Plant No. 2					2463-0000	3 179	7830 06
Retorts		2060-0000	3 099	6385 32	2730-0000	3 165	8641 67
Locomotives		365-1000	3 110	1136 76	433-0000	3 175	1374 60
Crane		133-0000	3 053	406 04			
Total Used		17796-1000	3 115	55445 89	17687-0000	3 175	56146 78
Balance on hand end of fiscal year		6959-1250	3 186	22161 94	11142-0550	2 537	28273 93
<u>Anthracite Screenings:-</u>							
From Consolidated Fuel & Lbr. Co.		92-1800	2 250	209 02	308-0700	2 225	685 99
" Pittsburgh Coal Co.		175-1500	2 790	490 35	163-0500	3 250	530 57
" The C. Reiss Coal Co.		1565-1100	2 250	3522 55	1626-1400	2 250	3661 28
" Jas. Pickands Co., Ltd.		328-0000	1 000	328 00	567-0220	1 000	567 36
Total		2162-0400	2 104	4549 92	2665-0820	2 043	5445 20
Freight				165		189	503 17
Switching in Furnace Yard				011		012	33 08
Handling				066		062	165 23
Total		2162-0400	2 346	5072 54	2665-0820	2 306	6146 68
Inventory end of fiscal year		1545-0190	2 279	3521 75	588-1370	2 651	1560 34
Grand Total		3707-0590	2 318	8594 29	3254-0190	2 368	7707 02
<u>Charged To:-</u>							
Retorts		2337-0000	2 306	5390 53	1709-0000	2 448	4185 27
Balance on hand Dec. 31st., 1910		1370-0590	2 338	3203 76	1545-0190	2 279	3521 75

Remarks:-

1910:- Lake freight, .35
Discharging .15
Reloading .35
Swgh. from Dk. .15
Coal 2.25

The variation in the cost of coal consumed is due to the large balance on hand which was purchased at a low price in 1909; Also to increased cost of coal at plant for 1910, as coal, lake freight and reloading charges are all higher. Switching from Gladstone dock, reloading and handling charges high account of transferring large amount of coal from dock to plant which was purchased in 1909.

Bonus of 3¢ per ton is analysis on coal as per Inter-office memorandum No. 249, January 6th., 1911

1909:- Lake Freight .38
Discharging .15
Reloading .30
Swgh. from Dk. .15
Coal 1.947

Coal received from Cabin Creek Consolidated Coal Co. and New River Coal Company was samples which were tried out at our boiler plants. The variation in the cost of coal consumed is due to the large balance on hand at the beginning of the year, and the decrease in the cost of coal purchased during 1909, there being stored at the Gladstone dock 8709-1900 tons on which, at the close of the year,

there was no reloading, switching or handling charges. Rail freight is the freight on the samples of coal received from the Cabin Creek and New River Coal companies.

Made by John
Figured by John
Controlled by John
Corrected by John
Examined by John

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

COMPARATIVE WOOD REPORT FOR 1910 AND 1909

WOOD RECEIVED:-	13 MOS.	
	1910	1909
Inventory December 1st	Cds.	Cds.
Kilns	3001.500 ✓	4271.000
Yard	4041.750 ✓	8812.250
Received from Mathews	20070.500	21758.000
" " Alger	20306.500	24443.750
" " Limestone	23135.000	24695.750
" " Jobbers	368.000	216.500
Total	70923.250	84197.250 ✓
WOOD USED:-		
Carbonized in kilns	50529.000 ✓	58371.000
" " retorts	15090.000	17442.000
Used at No. 1 Chemical Power Plant	506.000	376.500
" under furnace boilers	167.000	248.500
" at Club house	9.000	3.000
Sold to Tennants	343.000	353.000
For thawing ore	23.000	
Total	66667.000	76794.000 ✓
BRANDS USED:-		
At lime house	4.000	4.000
For retort fuel	156.000 ✓	215.000
For thawing ore	134.000	129.000
For locomotive	5.000	5.000
For Bottom Fillers	4.000	4.000
For furnace boilers		3.000
For coal forkers	2.000	
Total wood and brands	66972.000	77154.000 ✓
Inventory end of fiscal year:		
Yard	448.750 ✓	4041.750 ✓
Kilns	3502.500 ✓	3001.500 ✓
Total	70923.250 ✓	84197.250 ✓

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department
AND
PIONEER IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF SALARIES AND PERQUISITES

From 1906 to 1910 Inc.

	1910	13 MOS. 1909	1908	1907	1906
<u>Manager:-</u>					
Salary	10000 00	10833 33	10000 00	10000 00	8000 00
Salary of Coachman	720 00	780 00	720 00	690 00	600 00
Feeding Horses	216 00	234 00	198 80	196 00	192 00
House Rent	600 00	650 00	600 00	600 00	600 00
Launch	25 00	25 00	25 00	1 00	25 00
Total	11561 00	12522 33✓	11543 80✓	11487 00✓	9417 00✓
<u>Barn Boss, Gladstone:- (1)</u>					
Salary	350 00	650 00	600 00	600 00	600 00
House Rent	42 00	78 00	72 00	72 00	72 00
Total	392 00	728 00✓	672 00✓	672 00✓	672 00✓
<u>Yard Foreman:-</u>					
Salary	1200 00	1300 00	1200 00	1200 00	1020 00
Feed of horse (his own)	90 00	0 00	120 00	120 00	120 00
Electric Lights	12 00	12 00	0 00	0 00	0 00
Total	1302 00	1312 00✓	1320 00✓	1320 00✓	1140 00✓
<u>Founder, No. 1 Furnace:-</u>					
Salary	1620 00	1755 00	1620 00	1620 00	1620 00
Electric Lights	12 00	12 00	12 00	12 00	12 00
House Rent	96 00	104 00	96 00	96 00	96 00
Telephone	12 00	13 00	12 00	12 00	12 00
Water (2)	0 00	0 00	0 00	0 00	0 00
Total	1740 00	1884 00✓	1740 00✓	1740 00✓	1740 00✓
<u>Chief Engineer:-</u>					
Keep of Horse	384 00	297 00✓	150 00✓	150 00✓	
<u>Fuel Superintendent:-</u>					
Marquette Expenses (3)	0 00	0 00	266 94✓	330 03✓	320 40✓
<u>Assistant Auditor:-</u>					
<u>Chemical Superintendent</u>					
<u>Draftsman</u>					
<u>Stenographer</u>					
<u>Clerks</u>					
Use of team to and from Furnace	240 00	260 00✓	240 00✓	240 00✓	240 00✓
<u>Cashier, Carp Furnace:-</u>					
Founder " "					
Chemist " "					
(4) Use of horse to & from furnace	0 00	0 00	20 00	240 00	240 00
<u>Chief Machinist, Gladstone:-</u>					
Electric Lights	12 00	12 00	12 00	12 00	
<u>Chemical Superintendent:-</u>					
<u>Gladstone Plants</u>					
Electric Lights (5)	0 00	0 00	9 00	12 00	

Notes:-

- (1) Pensioned August 1st., 1910.
- (2) Water furnished from artesian well, cost \$331.78
- (3) Room Rent and board while at Marquette
- (4) December month only in 1908 account closing down Nov. 30th., 1907.
- (5) Chemical Superintendent, A. N. Sinclair, died September 1st., 1908.

Made by 2109
Figured by ✓
Copied by ✓
Corrected by ✓

THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT

AUSTIN FARRELL, MANAGER.

GLADSTONE, MICH., 3/20/11

SUBJECT:

RECEIVED
MAR 22 1911
Ack.----- Ans.-----

Mr. R. C. Mann, Auditor,
Cleveland, Ohio.

Dear Sir:-

The following is the base for the division of Common Expense:-

Central Office Expense:- Based on operating Pay rolls
Laboratory Expense " " " "
Chemical Superintendent:- " " " "
Central Power Expense:- Based on steam, water and electric current used
No. 1 Chem. Power Exp:- Based on coal consumed
No. 2 Chem. Power Exp:- " " " "
Barn Expense:- Based on horse hours
Switching Expense:- Based on cars switched
Crane:- Based on actual hours worked
Shop Labor:- Based on actual hours worked.

Yours truly,

A. D. Mason
Assistant Auditor.

H

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

VACANT PROPERTY

IN THE CITY OF GLADSTONE DECEMBER 31st., 1910

<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

17912 29

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SALES GLADSTONE CITY PROPERTY DURING THE YEAR 1910

N O N E

GLADSTONE CITY PROPERTY
FURNACE DEPARTMENT
CLEVELAND-CLIFFS IRON CO.

SECRET BOARD

SECRET BOARD

075902

THE CLEVELAND-CLIPPER IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF MILEAGE
MADE BY CHARCOAL CARS IN ALL SERVICES

Old No.	New No.	13 MOS.				
		1910	1909	1908	1907	1906
119	1	234	198	270	480	47.1
132	2	126	294	324	1274	36.5
103	3	# 000	1512	924	924	211.0
124	4	198	226	378	378	30.0
125	5	180	558	288	1393	30.0
137	6	198	96	342	504	61.8
117	7	252	270	324	414	87.5
138	8	216	540	342	1621	53.1
109	9	1092	1428	1008	1092	394.0
101	10	1176	942	564	558	147.1
111	11	72	558	36	540	101.5
112	12	252	396	324	540	201.8
131	13	198	234	378	324	136.7
134	14	72	164	306	558	102.5
136	15	36	366	378	432	000.0
127	16	# 000	378	342	468	138.8
105	17	1008	1428	1008	1008	407.1
102	18	1176	588	588	792	81.6
104	19	1260	420	252	612	290.1
120	20	# 000	242	180	504	101.5
108	21	162	414	234	324	36.5
135	22	198	288	270	540	00.0
110	23	198	486	306	540	205.6
107	24	180	162	354	756	486.1
113	25	252	468	252	162	15.0
116	26	72	88	252	522	136.3
129	27	126	366	306	468	70.7
128	28	234	180	378	432	101.5
118	29	# 000	360	360	324	142.9
Total		9168	13650 ✓	11268 ✓	18484 ✓	3854.3 ✓

Note:- 1910:

Bad order, cars idle

Car No. 115 at Limestone Camp.

SUMMARY OF MILEAGE MADE BY CHARCOAL CARS IN VARIOUS SERVICES

	1910	1909	1908	1907	1906
Soo Line Charcoal service			144	360	755
Soo Line & E & L S charcoal (Mashek)	3456	6678	7092	10566	000
Soo Line lime service, Manistique	5712	6300	4032	4620	1260
C. & N.W. charcoal service				2938	1839.3
M&SE charcoal service, Carp to No. 2 furnace		672			
Total	9168	13650 ✓	11268 ✓	18484 ✓	3854.3 ✓

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT FOR THE YEAR ENDING DECEMBER 31st., 1910

AUTHORIZATION			COST			DISPOSITION					BALANCE		Remarks	Completed
No.	Description	Amount	Current year	Total to Date	Unexpended Balance	Cost Sheet or Account	Item	Rate	Unit	Current year	Total to Date	Amount		
53	Twenty 80 Cord Kilns Experimental Kiln & Retort Total Kilns	23509.22		22901 89 1108 24 24010 13		Charcoal	Dep.	1/2 ¢	Bu.	5404 98 284 47 5689 45	18331 85 987 91 19819 76	4070 04 120 33 4190 37	Based on Charcoal Prod.	Dec., 1902
54	Enlarging Chemical Plant No. 1			96887 11		Alcohol No. 1	Dep.	12 1/2%	Yr.	4191 39	96887 11	0 00		Aug., 1903
73	New Still House & App. 71999.00 Sup. Est. 13055.00	85054 00		85472 16	418 16	" " "	"	15%	Yr.	12828 60	65212 05	20260 11		Nov., 1905
77	Chute Apparatus 8705.00 Sup. Est. 10500.00	19215 00		18546 65		" " "	"	17%	Yr.	3153 00	12874 75	5671 90		Aug., 1906
72	New Blowing & Pump. Eng. 28390.50 Sup. Est. 972.00	29362 50		27275 87		" " "	"	15%	Yr.	3991 20	20288 60	6987 27		
90	Alcohol Storage Tanks	3660 40		2823 11		" " "	"	33%	Yr.	941 04	1960 49	862 62		July, 1908
92	Alcohol Scrubber	471 08		471 08		" " "	"	50%		235 54	471 08	0 00		Nov., 1908
	TOTAL ALCOHOL PLANT NO. 1			231475 98						25340 77	197694 08	33781 90		
39	Alcohol Plant No. 2)			61141 90		Alcohol No. 2	Dep.	10%	Yr.	5834 88	57195 66	3946 24		Nov., 1902
39	Acetate Plant No. 2)	111989 49		7963 40		Acetate No. 2	"	10%	Yr.	741 00	7163 00	800 40		Nov., 1902
39	Retorts)			58499 72		Charcoal	"	0 13	Bu.	6189 43	58499 72	0 00	Based on Charcoal Prod.	Nov., 1902
72	New Blowing & Pump. Eng. 9463.50 Sup. Est. 324.00	9787 50		6818 96 2273 00		Alcohol No. 2 Acetate No. 2	"	10%	Yr.	681 60 227 40	3464 80 1155 95	3354 16 1117 05		
	TOTAL CHEM. PLANT NO. 2			136696 98						13674 31	127479 13	9217 85		
55	Rebuilding Acetate Plt. #1			13224 60		Acetate No. 1	Dep.	15%	Yr.	624 90	13224 60	0 00		Aug., 1903
81	New Dry Floor	4818 00		4787 19		" " "	"	17%	"	813 84	3323 18	1464 01		Aug., 1906
72	New Blowing & Pump. Eng. 9463.50 Sup. Est. 324.00	9787 50		9091 95		" " "	"	15%	"	1363 80	6932 65	2159 30		
87	Acetate Storage House	1364 98		1231 32		" " "	"	25%	"	307 92	641 61	589 71		Aug., 1908
	TOTAL ACETATE PLT. NO. 1			28335 06						3110 46	24122 04	4213 02		
58	Five Dbl. Tenement Hses.	6087 40		5010 64		Rented Buildings	Dep.	Net Ea.		1810 20	1818 34	3192 30		Nov., 1902
59	Club House	3298 30		3515 03	216 73							3515 03		Nov., 1902
74	Steam Heater Engr's. Res.	450 00		450 00								450 00		
84	Steam Heater Audtr's Res.	640 00		640 00								640 00		
	Clearing Site, Walks & Fences			495 04								495 04		
2	Tenement House Well No. 1	547 19		547 19								547 19		Oct., 1898
43	Tenement House Well No. 2	516 65		516 65								516 65		July, 1901
	TOTAL HOUSES			11174 55						1810 20	1818 34	9356 21		
	GRAND TOTAL NEW CONSTRUCTION & IMP.			431692 70						49625 19	370933 35	60759 35		
72	New Blowing & Pump. Eng. 52575.00 Sup. Est. 1800.00	54375 00		5051 08 27275 87 9091 95 6818 96 2273 00 50510 86		Pig Iron Alcohol No. 1 Acetate No. 1 Alcohol No. 2 Acetate No. 2	Dep.	50 ¢ 15% 15% 10% 10%	Ton Yr. " " " " " "		5051 08 20288 60 6932 65 3464 80 1155 95 36893 08	0 00 6987 27 2159 30 3354 16 1117 05 13617 78	Based on iron prod.	Sep., 1905
93	Foundations Eng'rs. Res.	380 66	124 75	369 75		Rented Buildings				369 75	369 75	0 00		May, 1910
94	Foundations Audtr's Res.	402 80	122 22	387 80		" "				387 80	387 80	0 00		May, 1910
95	Chemical Plant #1 Stills	597 00												
96	Chemical Plant #1 Boilers	4330 70	6173 92	6556 95	2226 25	Alcohol No. 1	Maint.,	Boilers		6556 95	6556 95	0 00		Sept., 1910
97	Locomotive Crane	7975 00	8051 04	8158 39	183 39	Optg. Crane	Dep.	20% Yr.		1631 83	1631 83	6526 56	Purchased Dec., 1909	
98	Ore & Wood Trestles	2711 05	2727 67	2727 67	16 62	Pig Iron	Maint.,	T&D		844 77	844 77	0 00		Nov., 1910
						Charcoal	Repairs			1882 90	1882 90	0 00		
99	Adding & Listing Machine	300 00	300 00	300 00		Central Office	Furn. &	Fixtrs.		300 00	300 00	0 00	Purchased Jan., 1910	

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN CHARGED OFF DECEMBER 31st, 1910

Authy. No.	Description	Amount Author- ized	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	Sterling boiler	3831.62	3831.62
20	Jacket and 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 to 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	Fence around tenant houses	1103.52	1422.81
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		12789.84
72	New blowing and 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 railroad 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 and still No. 5	1673.64	1673.64
35	Bath house	272.82	272.82
39	Retort plant		58499.72
46	Covering tanks and stills		760.00

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN CHARGED OFF DECEMBER 31st, 1910

<u>Authy. No.</u>	<u>Description</u>	<u>Amount Author-ized</u>	<u>Total Cost To Date</u>
<u>CHEMICAL PLANT NO. 1, Continued:</u>			
47	Refining still		1523.27
54	Enlarging Chemical plant No. 1	6845.30	6026.90
55	Rebuilding acetate plant No. 1		96887.11
	Kilns, Original 40 kilns		25047.79
10	Ten 60-cord kilns	6845.30	6026.90
<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 NO. 1 GROUP:-</u>			
e	Ovens		230.83
f	Tanks		86.62
g	Piping tanks		143.31
h	Storage house		6.48
l	Addition to Acetate building		2.32
23	Acetate storage house		216.20
24	Acetate fire wall		144.90
41	Acetate Plant No. 1 store house		1457.59
	Condenser, Acetate plant No. 1		1255.04
<u>RETORT GROUP:-</u>			
44	Auxiliary Coolers	2175.00	2354.22
45	Changing fire-place settings		3534.05
<u>HOUSE GROUP:-</u>			
1	Five double tenement houses	4531.10	4244.60
9	One double tenement house		850.00
	Repairs rented houses		11492.75
40	Five double tenement houses	4657.45	4689.71

Note. - Railroad group and Camp Barn were not listed by the furnace Dept after year 1909 - account of the equipment being turned over to the Lumbering Dept.

AMU

The Cleveland Cliffs Iron CO.,

Gladstone, Mich. Jan. 10th. 1911

OPERATING REPORT FOR WEEK ENDING Dec. 31st. 1910

BRAND Pioneer

	DAYS OPERATING	PRODUCTION, TOTAL TONS	REMARKS
	Ten	856	

NOTE—If furnace is out of blast or iron withdrawn from sale, please so state.

If there is information at hand as to probable time furnace will commence operations, if out of blast, please note same under "Remarks."

Also any other information affecting the production or iron to be sold.

The purpose of this report being to furnish information which may affect or change basis for division of sales and shipments.

THE CLEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending December 31st., 1910

Form 110. 6-09. 500.

COMMODITY	Purchased, Produced, Returned or Used	PRODUCED AND RECEIVED.							SHIPPED AND USED.							
		TOTAL FOR THE MONTH		Total for Previous Months	Overruns, Shortages for the Year	Total from Jan. 1st/10	Total on Hand Jan. 1st	Grand Total	DISPOSITION	TOTAL FOR THE MONTH		Total for Previous Months	Overruns, Shortages for the Year	Total from Jan. 1st/10	Balance on Hand	
		By Grades	As Per Cost Sheet							By Grades	As Per Cost Sheet					
ALCOHOL PLANT No. 1																
Alcohol, Gals.	95 %		12447 1/2	20334	173189 3/4	117	193406 3/4	68179	261585 3/4	Shipped	17837 3/4	25724	188913 3/4	117	214520 3/4	47065
" "	97 %		754 3/4								754 3/4					
" "	%															
Diamond Spirits, Gals.	99%		1974 3/4								1974 3/4					
Perfumed Spirits, "																
Denaturing Alcohol, "																
Spec. Spirits No. 1	99%		2000								2000					
Alcohol, Gals.	%									To Pioneer Fur. No. 2						
" "	%									" "						
" "	%									" "						
Other Products and Compounds										For						
Alcohol, Gals.	%									Solvent No. 11						
" "	%									Solvent No. 12						
" "	%															
" "	%															
Methyl Acetone AA	97 %		2912 1/2							Methyl Acetone A						
" "	%									" " A	2912 1/2					
Total 95% Alcohol			20089	20334	173189 3/4	117	193406 3/4	68179	261585 3/4		25479	25724	188913 3/4	117	214520 3/4	47065
ALCOHOL PLANT No. 2																
Alcohol, Gals.	%			9921	109119	106	119146	6017	125163	Shipped		9400	111071	106	120577	4586
" "	%			30255			31255									
" "	%															
Diamond Spirits, Gals.																
Perfumed Spirits, "																
Denaturing Alcohol, "																
Alcohol, Gals.	%									To Pioneer Fur. No. 2						
" "	%									" "						
" "	%									" "						
Other Products and Compounds										For						
Alcohol, Gals.	%									Solvent No. 11						
" "	%									Solvent No. 12						
Made by: <u>RWS</u>	%															
Figured by: <u>WST</u>	%															
Copied by: <u>WST</u>	%									Methyl Acetone A						
Corrected by: <u>RWS</u>	%									" " A						
Examined by: <u>WST</u>	%															
Total 95% Alcohol																51651
Gray Acetate of Lime Plant No. 1,	Lbs.	Produced	336934	3703379	307	4040006	65247	4105253	Shipped			646910	307	646603		
									To Pioneer Fur. No. 2	154020	2034703	2188723				
Total										154020	2681613	307	2835326	1269927		
Gray Acetate of Lime Plant No. 2,	Lbs.	Produced	189895	2175374	506	2364763	1293	2366056	Shipped			342060	506	341554		
									To Pioneer Fur. No. 2	203466	1715234	1918700				
Total			626829	813	6401174					203466	2057294	506	2260254	105802		
Acetate returned	Lbs.			11212		11212		11212			11212		11212			
Acetone from Marquette				13712	365	13347		13347			12217	360	11957	1390		
Special Solvent No. 24				51		51		51			51		51			

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

STOCK ACCOUNTS

December 31st., 1910.

SUPPLIES:-

Furnace	17138.91
Chemical	2036.46
Laboratory	269.10
Stock of Coal	25365.70
Club House	248.27
Stock of Acetone	171.36

Total 45229.80 ✓

EQUIPMENT:-

Furnace 6706.77

O R E S:-

	<u>Tons</u>	<u>Price</u>	
Lake	2275 ✓	3.701	8419.77
Cliffs Shaft	1332 ✓	4.771	6354.99
Lake Silica	164 ✓	1.763	289.09
Lucy	251 ✓	2.248	564.24

Total 4022 ✓ 3.886 15628.09 ✓

WOOD:-

	<u>Cords</u>		
In Yard	448 $\frac{3}{4}$ ✓	3.186	1429.75
In Kilns	3502 $\frac{1}{2}$ ✓	2.760	9666.90

Total 3951 $\frac{1}{4}$ ✓ 2.808 11096.65 ✓

Charcoal (Bushels) 17702 ✓ .0842 1490.50

Limestone (Tons) 1955 ✓ .9744 1904.95

Grand Total 82056.76 ✓

BALANCE SHEET

Reference to C1 on detail
Sheet A9-C1-C6-C7

C1	45229.80
A9	6706.77
C1	15628.09
C1	11096.65
C1	1490.50
C1	1904.95

Total 82056.76 ✓

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The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910

FURNACE GENERAL EXPENSE

15898.33

Taxes	3037.45
Analysis	1798.73
Central Office Expense	10712.15
Personal Injury	350.00

FURNACE MAINTENANCE

16883.43

Tracks & Yards	2295.25
Trestles & Docks	5071.33
Buildings	1483.99
Machinery	375.51
Tuyeres	493.21
Relinings & Renewals	3520.10
Pig Iron Trucks, Coal & Ore Buggies	1344.65
S t a c k	861.68
S t o v e s	795.29
Cleaning Up	642.42

FURNACE OPERATING

574027.13

Machinery	2751.31
Electric Lamps & Wiring	586.46
Bottom Fillers	11515.58
Top Fillers	2865.67
Handling Iron	6347.14
Handling Cinders	4894.92
Weighing & Grading Iron	720.00
Founders, Keepers & Helpers	10513.47
Coal Forkers	8914.21
Casting Tools	485.00
Sand & Clay	1783.88
Central Power Expense	2435.86
Fire Loss at Camps	69.62
Cleaning Stoves	187.80
O r e s	250605.33
Charcoal	264996.71
Limestone	1874.27
Appreciation of Inventory	218.94
Loading Cars	626.01
Switching	113.91
Loading Vessels	1958.92

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910.

ALCOHOL GENERAL EXPENSE NO. 1

6075.22

Insurance	1575.00
Taxes	1786.73
Analysis	526.19
Central Office Expense	2187.30

ALCOHOL MAINTENANCE NO. 1

3049.03

Tanks & Stills	1545.65
Condensers	775.53
Machinery	83.74
Fans & Motors	491.11
Smoke Mains	112.54
Buildings	16.58
Sewer	12.38
Cleaning Up	11.50

ALCOHOL OPERATING NO. 1

51501.19

Superintendent	325.60
Stillmen	5392.33
Machinery	67.41
Electric Lamps & Wiring	93.90
Chemicals	1552.68
No. 1 Chemical Power Expense	14066.84
Condensermen	749.52
Improvement Account	25340.77
Appreciation of Inventory	105.35
Packages	3850.84
Loading	151.49
Switching	15.16

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910

ALCOHOL GENERAL EXPENSE NO. 2 4322.51

Insurance	2250.00
Taxes	595.58
Analysis	289.53
Central Office Expense	1187.40

ALCOHOL MAINTENANCE NO. 2 2088.01

Tanks & Stills	986.18
Condensers	902.59
Machinery	5.47
Buildings	86.46
Sewer	89.11
Cleaning Up	18.20

ALCOHOL OPERATING NO. 2 23632.80

Superintendent	184.72
Stillmen	2923.72
Electric Lamps & Wiring	51.86
Chemicals	594.75
No. 1 Chemical Power Expense	9691.50
Improvement account	6516.48
Appreciation of Inventory	61.95
Packages	3647.26
Loading	73.84
Switching	10.62

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910

ACETATE GENERAL EXPENSE NO. 1

3081.50

Insurance	1.92
Analysis	546.43
Central Office Expense	2294.92
Taxes	238.23

ACETATE MAINTENANCE NO. 1

445.01

Buildings	290.67
Piping	96.92
Machinery	37.43
Cleaning Up	19.99

ACETATE OPERATING NO. 1

46473.79

Contractors	4883.37
Machinery	.18
Fuel	2108.94
Electric Lamps & Wiring	33.77
No. 1 Chemical Power Expense	27962.40
L i m e	4618.83
Handling Fuel	40.75
Superintendent	347.29
Condensermen	732.86
Storing	25.38
Depreciation of Improvement	3110.46
Appreciation of Inventory	108.15
Sacks	2484.33
Loading	213.30
Switching	20.08

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THE CLEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT

The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910

ACETATE GENERAL EXPENSE NO. 2

1683.29

Analysis	309.84
Central Office Expense	1313.89
Taxes	59.56

ACETATE MAINTENANCE NO. 2

96.71

Buildings	5.10
T a n k s	8.06
Piping	8.44
P a n s	67.72
Cleaning Up	7.39

ACETATE OPERATING NO. 2

26145.02

Contractors	2880.71
Central Power Expense No. 2	17842.08
Electric Lamps & Wiring	20.53
Superintendent	197.13
L i m e	2642.00
Storing	18.00
Depreciation of Improvement	968.40
Appreciation of Inventory	74.55
Sacks	1445.48
Loading	187.28
Switching	17.96

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The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

SIDE LEDGER TRIAL BALANCES DECEMBER 31st., 1910

DECEMBER 31st., 1910
SIDE LEDGER TRIAL BALANCES
FURNACE DEPARTMENT
THE CLEVELAND-CIFFS IRON CO.

<u>SPECIAL CHEMICAL PRODUCTS GENERAL EXPENSE</u>		453.78
Central Office Expense	341.12	✓
Analysis	112.66	
<u>SPECIAL CHEMICAL PRODUCTS MAINTENANCE:</u>		44.18
Piping	44.18	
<u>SPECIAL CHEMICAL PRODUCTS OPERATING</u>		27638.72
Chemist	450.00	
No. 1 Chemical Power Expense	304.44	
Alcohol	23715.66	
C. P. Acetone	1505.24	
Chemicals	85.20	
Rectifying Alcohol	73.11	
Packages	1462.28	
Loading	36.38	
Switching	6.41	



PIONEER IRON COMPANY

FURNACE DEPARTMENT

MISCELLANEOUS DATA - 1910.

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DETAIL OF STOCK USED

1910

1909 13 MOS.

O R E S	1910		Price		Amount		Cost	Per	1909 13 MOS.		Price		Amount		Cost	Per						
	Tons	Lbs.					per Ton	Cent Used	Tons	Lbs.					Per Ton	Cent Used						
L a k e	✓ 48734	1740	3	302	160900	31	4	327	63	8	47780	0180	3	062	146296	89	4	301	67	6		
Cliffs Shaft	378-0880 476	1333	4	359	1412	99		038			2325	0460	4	068	9458	65		278		3	3	
Lake Silica	✓ 200	0000	1	513	302	60		008			2486	0950	1	472	3658	82		108		3	5	
Clinton Silica	✓ 2973	1170	1	488	4424	53		119	3	9	236	0460	1	499	354	10		010			3	
M a a s	✓ 21730	0939	3	474	74209	45	1	995	28	4	15730	0430	3	092	48650	11	1	430	22	3		
L u c y	✓ 1920	1550	2	031	3901	68		105														
Cambridge	✓ 354	1320	3	522	1248	90		033														
South Jackson											998	0430	1	283	1280	99		038			1	4
Section 16 Hematite											1093	0980	2	744	2999	91		088			1	6
Charcoal for thawing ore					581	64		015							731	60		022				
Bonus Account ore analysis					1363	87		037							661	28		019				
Penalties account ore analysis					551	15		015							954	80		028				
Adjustment ore prices					321	31		009														
Total	16300 75882	1840	3	270	248116	13	6	670	100	%	70649	1650	3	017	213147	98	6	266	100	%		
Limestone	2663	2080	1	355	3610	40		097			3746	1120	1	367	5122	14		151				
Charcoal (Bushels)	3495805			0722	252583	84	6	792			3298857			0719	237282	45	6	976				

Maas ore over-ran 359-1279 tons from Mar. 1910 to Nov. 1910.

Cliff Shaft ore over-ran 148-0453 tons from Jan. 1910 to Jan. 1911.

Made by 2107
 Figured by 2107
 Copied by CW
 Corrected by 2107
 Examined by con

PIONEER IRON COMPANY
Furnace Department

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1909 AND 1910

13 MOS.

Tons made Blast No.1 212816. Average tons per day 1910, 105.
Tons made Blast No.2 58898. Average tons per day 1909, 109.

TONS IRON MADE 1910, 37192. No. Days Optg. 1910, 351.
TONS IRON MADE 1909, 34014. No. Days Optg. 1909, 312.

	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton
GENERAL EXPENSE:-								
Insurance		70 41	70 41					002
Taxes		4413 82	4413 82	150				130
Analysis	1031 78	1484 86	2516 64	068	2019 94	872 04	2891 98	085
Central Office Expenses 26 1/2	7431 15	3791 54	11222 69	302	5116 33	2421 29	7537 62	221
Accident		1256 33	1256 33	037		1256 33	1256 33	037
Total	8462 93	10875 28	19338 21	520	7136 27	9033 89	16170 16	475
MAINTENANCE								
Tracks and Yards	1529 97	523 40	2053 37	055	2029 65	992 81	3022 46	088
Trestles & Docks	535 62	133 76	669 38	018	326 41	411 66	738 07	022
Buildings	695 75	720 88	1416 63	038	1274 91	1370 93	2645 84	078
Machinery	268 45	52 54	320 99	009	1496 62	2051 36	3547 98	104
Tuyeres	149 81	651 93	801 74	022	450 44	999 34	1449 78	043
Relinings & Renewals		3721 50	3721 50	100		3398 30	3398 30	100
Water Supply					262 04	78 31	340 35	010
Pig Iron Trucks, Coal & Ore Buggies	481 63	378 24	859 87	023	432 93	310 64	743 57	022
Stack	354 78	356 57	711 35	019	122 43	371 72	494 15	015
Stoves	82 02	92 96	174 98	004	516 00	284 61	800 61	024
Cleaning Up	1710 34	96 78	1807 12	049	921 46	9 95	931 41	027
Dry Blast	180 54	361 10	541 64	015				
Sewer	441 41	71	442 12	012	176 45	30 00	206 45	006
Gas Main					112 69	06	112 75	003
Total	6430 32	7090 37	13520 69	364	8122 03	10309 69	18431 72	542
OPERATING:-								
Machinery	2331 84	1323 46	3655 30	098	5092 96	1235 91	6328 87	186
Electric Lamps & Wiring	166 37	374 39	540 76	015	441 64	749 57	1191 21	035
Bottom Fillers	4721 92	91 05	4812 97	129	2823 55	73 57	2897 12	085
Top Fillers	1500 78		1500 78	040	1309 66		1309 66	039
Handling Iron	6040 56	60 99	6101 55	164	5296 19	11 35	5307 54	156
Handling Cinder	4978 25	1108 40	6086 65	164	4733 26	895 98	5629 24	165
Weighing & Grading Iron	711 75		711 75	019	631 95		631 95	018
Founders, Keepers & Helpers	11862 26	11 41	11873 67	319	9971 00		9971 00	298
Coal Forkers	9205 38	346 02	9551 40	257	9633 63	359 50	9993 13	294
Casting Tools	546 16	691 70	1237 86	033	8483 64	589 59	1073 23	032
Sand & Clay	2260 07	356 17	2616 24	070	5 40	1850 89	1856 29	055
Cleaning Stoves	668 36	183 45	851 81	023	366 61	199 15	565 76	017
Central Power Expense	1746 85	296 44	2043 29	055				
Boiler Fuel Tons, 231, 1909					74 02	653 85	727 87	021
Dry Blast	2573 25	906 98	3480 23	094				
Total	49313 80	5750 46	55064 26	1 480	40863 51	6619 36	47482 87	1 396
STOCK USED:-								
Ore		248116 13	248116 13	6 670		213147 98	213147 98	6 266
Charcoal		252583 84	252583 84	6 792		237282 45	237282 45	6 976
Limestone		3610 40	3610 40	097		5122 14	5122 14	151
Total		504310 37	504310 37	13 559		455552 57	455552 57	13 393
Cost of Production	64207 05	528026 48	592233 53	15 923	56121 81	481515 51	537637 32	15 806
DEPRECIATION:-								
Construction		35115 00	35115 00	944		33983 00	33983 00	999
Improvement		2100 00	2100 00	057				
Equipment		1267 30	1267 30	034		2524 05	2524 05	074
Appreciation of Inventory		66 67	66 67	002		139 93	139 93	004
Total		38415 63	38415 63	1 033		36367 12	36367 12	1 069
Total cost on yard	64207 05	566442 11	630649 16	16 956	56121 81	517882 63	574004 44	16 875
SHIPPING EXPENSES:-								
	1910	1909						
Freight Allowance	521	1050 Tons	130 25	250		262 50	262 50	250
Loading Cars	11656	9756 "	775 21	073	74 86	684 39	684 39	070
Switching	"	"	61 00	013		148 60	223 46	023
Total			159 70	030	74 86	1095 49	1170 35	035
Loading Vessels	18357	16267 "	1883 96	237	198 01	8099 85	8297 86	244
Fire Loss at Camps			1999 08	054		36160 94	36160 94	1 063
Grand Total			66250 71	17 277	56394 68	563238 91	619633 59	18 217

Construction Account not Charged off					151676 67		186791 67
Improvement Account not Charged off					103294 00		103294 00

SUMMARY OF COST PER TON

	On Yard	On Cars	On Vessel	On Yard	On Cars	On Vessel	YIELD	
Cost on Yard as above	16 956	16 956	16 956	16 875	16 875	16 875	1910	1909
Cost to Load as above		086	480		120	510	49.0 Ore	48.2
Total	16 956	17 042	17 436	16 875	16 995	17 385	94.0 Coal	97.0
Commission Expenses, Cleveland Office	350	350	350	350	350	350	160 Flux	247
Total Cost	17 306	17 392	17 786	17 225	17 345	17 735	Cost per ton for Labor	
							1.781	1.658

Remarks:-

General Expense:-
Central Office Expense, Charged 22.7% of General Office and 50.4% of Marquette office, year 1909
Plant shut down during April and May of 1909 for relining. During 1910 plant was shut down 6 1/2 days putting in Bell and Hopper and 6 days account shortage of wood due to storms.

PIONEER IRON COMPANY
Furnace Department

COMPARATIVE CHARCOAL COST SHEET

FOR THE YEARS 1910 AND 1909.

13 MOS.
1909

Account	1910			1909		
	Bushels	Amount	Cost Per Bu.	Bushels	Amount	Cost Per Bu.
PIONEER FURNACE KILNS:						
	3521229 ✓			3222222 ✓		
Wood	217321	55	0617	195940	90	0608
Loading from Yard	798	73	0002	678	27	0002
Packing	16224	22	0046	13010	74	0040
Kiln Tending	4072	77	0012	3852	26	0012
Screening & Cleaning	-1886	01	0005			
Taking out Braize				642	53	0002
Whitewashing	1626	23	0005	1627	55	0005
Cleaning out Kilns				1085	71	0003
Depreciation	8803	07	0025	8055	55	0025
Repairs	1692	89	0005	2883	51	0009
Braize Cartman	1976	09	0006	1793	50	0006
Contractor				795	50	0003
Total	254401	56	0723	230366	02	0715
Avg. Yield per Cord			46.1 ✓			45.5 ✓
Cords Carbonized			76371 ✓			70837 3/4 ✓
Cords Carbonized per Kiln			74 ✓			63 ✓
Bushels per kiln			3412 ✓			3122 ✓
FROM JOBBERS						
Carp Kilns				88620 ✓		
Coal				7157	71	0808
Freight				573	50	0064
Switching				39	82	0004
Total				7771	03	0876
Grand Total	3521229	254401	56	0723	3310842	238137
						05
						0719

Remarks:-

1910:- Construction Account not sunk off \$48676.68 ✓
 1909:- Construction Account not sunk off \$57479.75 ✓

Made by HGS
 Figured by
 Copied by CWA
 Corrected by HGS
 Examined by CWA

COMPARATIVE STATEMENT OF ALCOHOL COST SHEET FOR 1910 AND 1909

13 MOS.

Average Gallons per day, 1910 872 ✓ Gallons produced 1910, 318181 ✓ Gallons produced 1909, 286039
Average Gallons per day, 1909 891 No. days operating 1910 365 ✓ No. days operating 1909 321

	1910			1909			1910			1909		
	Labor	Supplies	Total	Labor	Supplies	Total	Labor	Supplies	Total	Labor	Supplies	Total
GENERAL EXPENSE:-												
Insurance		5199 96	5199 96	016		4766 63	4766 63	017				
Taxes		5598 88	5598 88	018		4311 16	4311 16	015				
Analysis	948 45	529 87	1478 32	005	2394 56	951 57	3346 13	012				
Central Office Expense 10%	2823 97	1494 00	4317 97	014	2130 30	1735 49	3865 79	014				
Personal Injury Expense	47 50	132 75	180 25	000								
Total	3819 92	12955 46	16775 38	053	4524 86	11764 85	16289 71	058				
MAINTENANCE:-												
Tanks and Stills	2060 82	3069 66	5130 48	016	2310 66	3606 30	5916 96	021				
Condensers	24 16	69 64	93 80	000	175 92	220 13	396 05	001				
Machinery	207 98	100 97	308 95	001	456 03	1035 45	1491 48	005				
Fans & Motors	2 73	124 49	127 22	000	50 79	22 19	72 98	000				
Smoke Mains	348 71	101 74	450 45	002	317 44	62 13	379 57	001				
Buildings	216 15	223 39	439 54	002	172 87	213 83	386 70	002				
D i t c h	19 80	21 61	41 41	000	8 00		8 00	000				
Cleaning Up	353 83	3 78	357 61	001	36 98	333 32	40 30	000				
Boilers					689 77	1063 51	1753 28	006				
Sewer	357 18		357 18	001								
Total	3591 36	3715 28	7306 64	023	4218 46	6226 86	10445 32	036				
OPERATING:-												
Superintendent	604 07		604 07	002	875 00		875 00	003				
Stillmen	9183 42	205 99	9389 41	030	8032 69	64 05	8096 74	028				
Condensermen	1062 82	78 08	1140 90	003								
Engineers					-1479 14	89 35	1568 49	006				
Firemen					-1122 59	2 25	1124 84	004				
Filter	3058 57	406 04	3464 61	011	808 37	162 17	970 54	003				
Machinery	7 97	131 25	139 22	000	-2366 79	674 13	3040 92	011				
Expense on returned goods		72 17	72 17	000		174 69	174 69	001				
Central Power Expense 30.8%	3617 38	12934 32	16551 70	052								
Electric Lamps & Wiring	139 14	372 64	511 78	002	215 52	416 93	632 45	002				
Chemicals		2273 46	2273 46	007		2429 25	2429 25	008				
Boilers					-286 16	172 55	458 71	002				
Fuel, Tons 1909,2249					-709 16	6360 95	7070 11	025				
L i m e						8382 25	8382 25	029				
H o s e						17 50	17 50	000				
Freight on Packages returned						0 00	0 00					
Unloading alcohol					33 55		33 55	000				
Cleaning Smoke Mains					22 10		22 10	000				
Cleaning Smoke Condensers					68 32	4 99	73 31	000				
Total	17673 37	16473 95	34147 32	107	16019 39	18951 06	34970 45	122				
Cost of Production	25084 65	33144 69	58229 34	183	24762 71	36942 77	61705 48	216				
DEPRECIATION:-												
Construction Account		43380 00	43380 00	136		39765 00	39765 00	139				
Improvement Account		3335 22	3335 22	011		1890 44	1890 44	006				
Appreciation of Inventory		54 33	54 33	000								
Total		46660 89	46660 89	147		41925 07	41925 07	146				
Total Cost	25084 65	79805 58	104890 23	330	24762 71	78367 84	103630 55	362				
Idle Expense					3446 87	10194 91	13641 78	048				
SHIPPING EXPENSE:-												
Packages	1910 58068 ✓ Gals	1909 120635 1/2 Gals			116 98	1664 35	1781 33	031	22 00	4247 67	4269 67	035
Loading	" " " "				79 49	93 01	172 50	003	226 32	143 46	369 78	003
Switching	" " " "				3 52	2 67	6 19	000	7 75	19 36	27 11	000
Total	199 99	1760 03	1960 02	006	256 07	4410 49	4666 56	016				
Total Cost on Cars	25284 64	81565 61	106850 25	336	28465 65	93473 24	121938 89	426				

Construction Account not charged off 110417 66 ✓ 153797 66
Improvement Account not charged off 90756 39 ✓ 32526 03

Smoke received from 74909 cords wood during 1910, Yield 425 ✓
Smoke received from 65272 cords wood during 1909, Yield 438

Remarks:-
Plant shut down during April and May of 1909 account Furnace being relined.
GENERAL EXPENSE:-
Central Office Expenses, charged 9 45% of General Office and 21% of Marquette Office 1909

made by
checked by
approved by
audited by

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

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1910 AND 1909.

13 MOS.

Average pounds per day, 1910, 18229.
Average pounds per day, 1909, 16186.

Pounds produced 1910, 6471670.
Number days operated, 355.

Pounds produced 1909, 5182105.
Number days operated, 320.

	Labor	Supplies	Total	Cost per Cwt	Labor	Supplies	Total	Cost per Cwt
GENERAL EXPENSE:-								
Taxes		666 53	666 53	010		513 22	513 22	010
Analysis	798 72	434 50	1233 22	019	741 41	733 62	1475 03	028
Central Office Expenses 8 1/2%	2404 21	1208 21	3612 42	056	1342 95	670 64	2013 59	039
Total	3202 93	2309 24	5512 17	085	2084 36	1917 48	4001 84	077
MAINTENANCE:-								
Buildings	30 14	81 35	111 49	002	167 62	199 36	366 98	007
Tanks	51 31	11 45	62 76	001	290 83	2 71	32 54	001
Conveyor	70 11	23 03	93 14	002	82 33	3 51	85 84	002
Dry Floor	155 07	63 89	218 96	003	19 38	28 10	47 48	001
Piping	67 83	126 27	194 10	003	137 36	193 85	331 21	006
Boilers					275 68	289 20	564 88	011
Lillie Apparatus	184 76	48 74	233 50	003	247 50	91 98	339 48	006
Fans	109 24	11 20	120 44	002	107 55	7 58	115 13	002
Machinery	104 48	82 63	187 11	003	391 30	257 19	648 49	013
Cleaning Up	313 38	3 77	317 15	005	36 98	3 32	40 30	001
Smoke Mains	81	20 18	20 99	000				
Fans & Motors	2 72	1 18	3 90	000				
Total	1089 85	473 69	1563 54	024	1495 53	1076 80	2572 33	050
OPERATING:-								
Contractors	8416 11	23 96	8440 07	130	5779 64	62 23	5841 87	113
Machinery		148 42	148 42	002	251 84	280 85	532 69	010
Coal for Drying		2661 92	2661 92	042				
Handling Fuel	296 06	130 81	426 87	007				
Electric Lamps & Wiring	45 31	118 65	163 96	003	56 40	82 41	138 81	003
Engineers					354 05	19 86	373 91	007
Firemen					275 11	57	275 68	005
Fuel, Tons used 1909, 8156.					2676 61	23240 84	25917 45	500
Boilers					71 85	40 58	112 43	002
Lime		10127 00	10127 00	157			10679 47	
Storing	54 45	41 75	96 20	001				
Superintendent	501 30		501 30	007	100 00		100 00	002
Weighing	771 33	62 72	834 05	013	536 88	9 90	546 78	011
Condensermen	897 91	75 04	972 95	015				
Central Power Expenses 56 2/3%	6828 77	24438 37	31267 14	483				
Lillie Apparatus					1443 93		1443 93	028
Total	17811 24	37828 64	55639 88	860	11546 31	23737 24	35283 55	681
Cost of production	22104 02	40611 57	62715 59	969	15126 20	26731 52	41857 72	808
DEPRECIATION:-								
Construction		3617 52	3617 52	056		3316 06	3316 06	064
Improvement		2629 32	2629 32	041		2410 21	2410 21	046
Appreciation of Inventory		49 23	49 23	001				
Total		6197 61	6197 61	096		5726 27	5726 27	110
Total Cost	22104 02	46809 18	68913 20	1 065	15126 20	32457 79	47583 99	918
SHIPPING EXPENSES:-								
Sacks 1910 1909								
6471670 Lbs. 821567 Lbs.		198 87	198 67	003		1045 60	1045 60	127
Loading 2502686 "					118 48	19 95	138 43	017
Switching " "					4 00	8 36	12 36	002
Total		198 67	198 67	003	122 48	1073 91	1196 39	023
IDLE EXPENSE								
					683 47	1422 44	2105 91	041
GRAND TOTAL	22104 02	47007 85	69111 87	1 068	15932 15	34954 14	50886 29	982

Construction Account not charged off 12069 48
Improvement Account not charged off 23629 63

15687 00
16951 71

Smoke received from 75679 cords wood during 1910.
Smoke received from 66448 cords wood during 1909.

Yield per cord 85 1/2

Yield per cord 78

Remarks:-

GENERAL EXPENSE:-

Central Office Expenses, charged 6 1/3% of General Office and 13 1/4% of Marquette Office, 1909.
Plant shut down during April and May of 1909 account Furnace being relined. Four days were lost account repairing Stokers and Six days while furnace was shut down to replace Bell & Hopper during 1910.

Checked by
Audited by
Approved by

Furnace Department
COMPARATIVE STATEMENT OF FORMALDEHYDE COST SHEETS FOR THE YEARS 1

13 MOS.

Average pounds per day 1910, 4172.
Average pounds per day 1909, 3667.

Pounds produced 1910, 13809.2.
Number days operated, 331.

Pounds produced 1909, 1411728.
Number days operated, 385.

	1910				1909			
	Labor	Supplies	Total	Cost per Lb.	Labor	Supplies	Total	Cost per Lb.
<i>Weight + Quality 38-40%</i>								
GENERAL EXPENSE:-								
Taxes		533 20	533 20	0003		470 58	470 58	000
Analysis	176 08	101 82	277 90	0002	451 23	321 24	772 47	001
Central Office Expenses 1%	525 82	273 94	799 76	0006	527 43	275 44	802 87	001
Total	701 90	908 96	1610 86	0011	978 66	1067 26	2045 92	002
MAINTENANCE:-								
Buildings	24 06	89 63	113 69	0001	46 85	74 80	121 65	000
Tanks & Stills	244 39	627 87	872 26	0006	195 05	379 14	574 19	001
Machinery	54 87	18 26	73 13	0001	174 86	114 51	289 37	000
Boilers					121 24	151 72	272 96	000
Cleaning Up	298 53	3 76	302 29	0002	36 98	3 31	40 29	000
Total	621 85	739 52	1361 37	0010	574 98	723 48	1298 46	001
OPERATING:-								
Stillmen	2341 82	28 00	2369 82	0017	2578 16	35	2578 51	002
Engineers					208 82	9 92	218 74	000
Firemen					153 13	35	153 48	000
Machinery		42 09	42 09	0000	148 75	147 99	296 74	000
Boilers					55 38	25 67	81 05	000
Fuel Tons used 1909, 1697.					611 11	4917 54	5528 65	004
Electric Lamps & Wiring	17 99	32 92	50 91	0000	47 42	55 31	102 73	000
Copper Netting		625 60	625 60	0005		800 40	800 40	001
Alcohol		77454 98	77454 98	0561		81878 24	81878 24	058
Unloading Alcohol	27 55		27 55		27 55		27 55	000
Freight on Alcohol						194 16	194 16	000
Expense on Packages Returned						117 49	117 49	000
Superintendent	102 58		102 58	0001	75 00		75 00	000
Central Power Expenses 3%	453 44	1627 16	2080 60	0015				
Total	2915 83	79810 75	82726 58	0599	3905 32	88147 42	92052 74	065
Cost of production	4239 58	81459 23	85698 81	0620	5458 96	89938 16	95397 12	068
DEPRECIATION:-								
Construction		2820 00	2820 00	0021		3055 00	3055 00	002
Improvement		2380 32	2380 32	0017		2270 19	2270 19	001
Appreciation of Inventory		9 74	9 74	0000				
Total		5190 58	5190 58	0038		5325 19	5325 19	003
Total Cost	4239 58	86649 81	90889 39	0658	5458 96	95263 35	100722 31	071
SHIPPING EXPENSE:-								
Packages	1291417/1910 Lbs.	6912 33	7055 76	0055		8548 80	8548 80	006
Loading	" " " "	259 38	297 50	0004	305 83	152 45	458 28	000
Switching	" " " "	9 03	14 80	0000	11 56	25 30	36 86	000
Total		411 84	7627 44	0055	317 39	8726 55	9043 94	007
TOTAL COST ON CARS	4651 42	93865 41	98516 83	0713	5776 35	103989 90	109766 25	078

Construction Account not charged off 8259 84
 Improvement Account not charged off 7196 68
 Gallons Alcohol used during 1910, 192390 @ .403
 Gallons Alcohol used during 1909, 204883 @ .401
 Yield per gallon 7.18
 Yield per gallon 6.82

Remarks:-
 GENERAL EXPENSE:-
 Central Office Expenses charged 20% of General Office and 4% of Marquette Office during 1909.
 Plant shut down 34 days during October and November of 1910 account limited storage facilities, also 3 days during January 1909 account frozen pipes, and 8 days during May of that year account market conditions.

10 vaporizers operated 331 days = 10 vaporizers operated 285.5 days full capacity 80%
 " idle 34 " = idle 34 days 74.5
 40.5
 365.5
 2090
 10090

by _____
 by _____
 by _____
 by _____

COMPARATIVE STATEMENT OF ACETONE COST SHEETS FOR THE YEARS 1910 AND 1909.

Average pounds per day 1910, 4247. ✓
Average pounds per day 1909, 2750.

Pounds produced 1910, 1550071 ✓
Number days operated, 365 ✓

Pounds produced 1909, 1014654 1/2
Number days operated, 377

	Labor	Supplies	Total	Cost per Lb.	Labor	Supplies	Total	Cost per Lb.
GENERAL EXPENSE:-								
Taxes		399 91	399 91 ✓	0003		352 93	352 93	000
Analysis	640 15	341 84	981 99 ✓	0006	307 95	162 24	470 19	000
Central Office Expenses 6 1/2%	1915 27	989 22	2904 49 ✓	0019	1071 53	579 29	1650 82 ✓	002
Personal Injury Expenses		80 00	80 00 ✓	0000				
Total	2555 42	1810 97	4366 39	0028	1379 48	1094 46	2473 94	002
MAINTENANCE:-								
Buildings	46 09	94 59	140 68	0001	84 20	182 25	266 45	000
Tanks	196 82	175 49	372 31	0002	151 57	133 20	284 77	001
Ovens & Kettles	338 75	893 25	1232 00	0008	392 24	621 37	1013 61	001
Retorts	474 33	261 12	735 45 ✓	0005	89 12	60 12	149 24	000
Piping	1 86	27 73	29 59	0000	111 32	126 06	237 38	000
Retort Pans & Cars	54 99	224 57	279 56	0002	311 91	190 90	502 81	001
Tracks	18 45	19	18 64	0000	41 39	13 52	54 91	000
Machinery	176 72	170 35	347 07	0002	181 50	305 97	487 47	001
Pans					78 99	160 71	239 70	000
Boilers					61 64	88 63	150 27	000
Conveyor					17 17	94	18 11	000
Dust Catcher					41 68	12 47	54 15	000
Ditch						21 08	21 08	000
Cleaning Up	301 85	3 76	305 61	0002	36 98		36 98	000
Total	1609 86	1851 05	3460 91	0022	1599 71	1917 22	3516 93	004
OPERATING:-								
Superintendent	392 05 ✓		392 05	0003	75 00 ✓		75 00 ✓	000
Machinery		221 25 ✓	221 25	0001	80 76	179 54	260 30 ✓	000
Hose						18 20	18 20 ✓	000
Engineers	11 99		11 99		113 99		113 99	000
Firemen 2169 tons in 1910	9415 48 ✓	195 04 ✓	9610 52	0062	6423 75	16 17	6439 92 ✓	006
Fuel 1 Tons 1909, 2142.		6936 60	6936 60 ✓	0045	974 08	6633 31	7607 39 ✓	008
Electric Lamps & Wiring	42 69 ✓	145 36 ✓	188 05	0001	44 64	58 57	103 21	000
Boilers					29 43	10 01	39 44	000
Chemicals		800 45 ✓	800 45	0005		337 13	337 13	001
Acetate		136614 27 ✓	136614 27	0882	127 95	64950 99	65078 94	064
Removing Refuse	1201 76 ✓	239 28 ✓	1441 04	0009	614 46	177 57	792 03	001
Ditch					62 21	32 10	94 31	000
Freight on Returned Acetone		2 76 ✓	2 76	0000				
Central Power Expense 3 1/2%	379 60 ✓	1325 63 ✓	1705 23	0011				
Handling Fuel	994 19 ✓	261 09 ✓	1255 28	0008				
Ovens And Kettles		37 40 ✓	37 40	0000				
Acetone Oils Recovered		1095 99 ✓	1095 99	0007				
Total	12425 77	145683 14	158108 91	1020	8546 27	72413 59	80959 86	080
Cost of production	16591 05	149345 16	16593621	1070	11525 46	75425 27	86950 73	086
DEPRECIATION:-								
Improvement		4661 64	4661 64	0030		3404 49	3404 49	003
Appreciation of Inventory		34 87	34 87	0000				
Total		4626 77	4626 77	0030		3404 49	3404 49	003
Total Cost	16591 05	153971 93	170562 98	1100	11525 46	78829 76	90355 22	089
SHIPPING EXPENSE:-								
Packages 1910 168463 1/2 Lbs. 1909 102814 1/2 Lbs.	621 44	6659 86	7281 30	0043	55 52	951 14	1006 66	001
Loading " " " "	324 31	455 18	779 49	0005	241 19	150 55	391 74	000
Switching " " " "	15 09	10 42	25 51	0000	11 71	33 58	45 29	000
Total	960 84	7125 46	8086 30	0052	308 42	1135 27	1443 69	002
TOTAL COST ON CARS	17551 89	161097 39	178649 28 ✓	1152	11833 88	79965 03	91798 91	091

Improvement Account not charged off 32334 05 ✓
Acetate used during 1910, 8880510 Lbs. @ \$1.537 ✓ Yield based on 80% Acetate 36995 69
Acetate used during 1909, 5519794 Lbs. @ \$1.157 ✓ Yield based on 88% Acetate 17.9 17 1/2 ✓ Yield based on 82% Acetate 18 1/2

REMARKS:-

General Expense:-
Central Office Expenses, charged 4 8/2% of General Office and 10 1/2% of Marquette Office during 1909.

Fuel:-
Tons used during 1910.
1821 Yough. ✓
347-0074 Pea ✓ 303.20

Acetone Oils Recovered:-
1910 249090 Lbs. c. 0044

6-Retorts operated 343.9 full days = 5.7 Retorts 30 5 days
6-Pots " 352.8 " " = 5.8 Pots 30 5 days
Total 348.3 full days operated (average days operating full capacity)
16.7 " " lost time (accumulated time lost)
365.

Checked by _____
Audited by _____
Directed by _____
Approved by _____

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

ACETIC ACID COST SHEET.

For the Month of _____ Year, 1910 _____ 191

Produced 9 months, 656128½ Lbs. 100% Average per day, 3771 lbs. 174 days operating

	Labor		Supplies		Total	Cost per Cwt.	
					9 Mos.		9 Mos.
GENERAL EXPENSE:-							
Analysis	168	98	63	87	232	85	036
Central Office Expense 12%	547	45	280	42	827	87	126
Total	716	43	344	29	1060	72	162
MAINTENANCE:-							
Buildings	10	61	62	79	73	40	011
Tanks & Stills	188	11	255	34	443	45	068
Conveyor	39	34	5	89	45	23	006
Piping	96	29	157	53	253	82	039
Machinery	99	29	135	42	234	71	036
Cleaning Up	120	75	3	77	124	52	019
Sewer	1	49	07	07	1	56	000
Total	555	88	620	81	1176	69	179
OPERATING:-							
Superintendent	1350	00			1350	00	200
Machinery			58	46	58	46	009
Stillmen	2044	73	63	53	2108	26	321
Handling Acetate	117	19			117	19	018
Central Power Expense 1%	121	94	434	39	556	33	065
Electric Lamps & Wiring	31	09	65	54	96	63	015
Removing Refuse	162	00	71	06	233	06	036
Chemicals			81	95	81	95	011
Sulphuric Acid			6055	59	6055	59	923
Acetate			19503	68	19503	68	2 972
Total	3826	95	26334	20	30161	15	4 597
Cost of Production	5099	26	27299	30	32398	56	4 235
DEPRECIATION:-							
Appreciation of Inventory			21	00	21	00	003
Improvement Account			2700	00	2700	00	411
Total			2679	00	2679	00	408
Total Cost	5099	26	29978	30	35077	56	5 346
SHIPPING EXPENSE:-							
9 Months							
Packages 531640½ Lbs.	269	09	1400	99	1670	08	314
Loading " "	215	19	76	70	291	89	055
Switching " "	5	73	4	36	10	09	012
Total	490	01	1482	05	1972	06	01
Total cost on cars 9 months	5589	27	31460	35	37049	62	5 177

Improvement Acct. not sunk off 39191.74 ✓
 Yield based on 78.3% Acetate *also actual yield*
 Yield based on 80 % Acetate
 Yield based on 82 % Acetate

Remarks:-
Acetate

9 Months

1143451	Lbs. ✓	Gladstone
62636	" ✓	Marquette
1206087	" ✓	c. 1.617

5.647
2.972
2.675

Sulphuric Acid 715734 " ✓ @ 16.922
 pounds acid used per 100 pounds of Acetate used = 59.3
 Packages used.
 1349 barrels
 1437 Carboys
 10 ½ half barrels

21715.734
357.8

made by 2187
 prepared by ✓
 applied by C. W. H.
 directed by 192
 examined by W. C. W.

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

ANNUAL COMPARATIVE STATEMENT OF REFINED TAR COST SHEETS FOR THE YEARS 1910 AND 1909

		1910			1909		
		Labor	Sup-plies	Total	Labor	Sup-plies	Total
		Gals. produced 1910 13572 ✓			Gals. produced 1909 21774 ✓		
		Avg. Gals. per day 503 ✓			Avg. Gals. per day 500		
		Days operated 1910 27 ✓			Days operated, 1909 43½		
					13 MOS.		
					1909		
		Cost per Gal.			Cost per Gal.		
GENERAL EXPENSE:-							
	Analysis	4 55	2 66	7 21 0000			
	Central Office Expense	14 17	6 96	21 13 002			
	Total	18 72	9 62	28 34 002	0 00	0 00	0 00 000
MAINTENANCE:-							
	Buildings	2 62	106 13	108 75 008	2 45		2 45 000
	Tanks	8 88	7 71	16 59 001	40 37	21 72	62 09 003
	Ovens			0 00 000	18 75	10 75	29 50 001
	Piping	69 95	128 42	198 37 015	125 50	144 60	270 10 012
	Machinery	2 70	1 42	4 12 000			0 00 000
	Total	84 15	243 68	327 83 024	187 07	177 07	364 14 016
OPERATING:-							
	Firamen				113 14		113 14 005
	Stillmen	54 10	5 30	59 40 004			0 00 000
	Machinery		1 56	1 56 000			0 00 000
	Coal		102 85	102 85 008	15 74	208 97	224 71 011
	Electric Lamps & Wiring	1 60	6 04	7 64 001		2 25	2 25 000
	Central Power Expense	90	4 86	5 76 000			0 00 000
	Total	56 60	120 61	177 21 013	128 88	211 22	340 10 016
	Cost of production	159 47	373 91	533 38 039	315 95	388 29	704 24 032
	Idle Expense	355 99	685 96	1041 95 077			0 00 000
DEPRECIATION:-							
	Improvement Account		51 16	51 16 004			
	Total cost	515 46	1111 03	1626 49 120	315 95	388 29	704 24 032

Improvement Account not sunk off

2762 35 ✓

3069 31 ✓

Remarks:-

1909:- Coal, 69 tons used

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

P I O N E E R I R O N C O.
Furnace Department

TAR PLANT IDLE EXPENSE

For the year, 1910.

	Labor	Sup- plies	Total
GENERAL EXPENSE:-			
Analysis	1 27	1 79	3 06 ✓
Central Office Expense	4 76	2 06	6 82
Total	6 03	3 85	9 88 ✓
MAINTENANCE:-			
Buildings	22 89	61 46	84 35
Tanks	224 15	87 67	311 82
Piping	94 95	138 55	233 50
Machinery	2 65	100 27	102 92
Total	344 64	387 95	732 59 ✓
OPERATING:-			
Fuel		18 90	18 90
Electric Lamps & Wiring	5 32	19 46	24 78
Total	5 32	38 36	43 68 ✓
Cost of production	355 99	430 16	786 15 ✓
DEPRECIATION:-			
Improvement Account		255 80	255 80
Total Cost	355 99	685 96	1041 95 ✓

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

STATEMENT OF SPECIAL CHEMICAL PRODUCTS.

For the Month of _____ FOR THE YEAR

1910

	Labor	Supplies	Total		
GENERAL EXPENSE:-					
Taxes		133 03	133 03		
Analysis	273 05	617 82	890 87		
Central Office Expense 2%	813 07	408 27	1221 34		
Total	1086 12	1159 12	2245 24		
MAINTENANCE:-					
Buildings	11 33	49 41	60 74		
Tanks & Stills	67 77	86 50	154 27		
Pumps	25 16	57 04	82 20		
Electrolytic Cell	116 04	238 50	354 54		
Piping	28 90	71 31	100 21		
Machinery	17 60	81 81	99 41		
Total	266 80	584 57	851 37		
OPERATING:-					
Chemists	4880 93		4880 93		
Machinery	3 16	67 45	70 61		
Stillmen	1463 21	16 56	1479 77		
Central Power Expense 1%	156 41	582 01	738 42		
Electric Lamps & Wiring	10 84	69 52	80 36		
Electrolytic Cell	2 36	6 81	9 17		
Electric Power		271 52	271 52		
Freight on Returned Goods		12 45	12 45		
Chemicals		2118 05	2118 05		
✓ Alcohol		32269 30	32269 30		
✓ Acetate		41 72	41 72		
✓ Formaldehyde		1486 65	1486 65		
✓ Acetone		1252 31	1252 31		
Acetone Oils		1095 99	1095 99		
Total	6516 91	39290 34	45807 25		
Cost of production	7869 83	41034 03	48903 86		
DEPRECIATION:-					
Improvement		1211 28	1211 28		
Appreciation of Inventory		19 46	19 46		
Total		1191 82	1191 82		
Total Cost	7869 83	42225 85	50095 68		
SHIPPING EXPENSES:-					
Packages	320 34	3057 47	3377 81		
Loading	156 55	215 88	372 43		
Switching	3 57	2 48	6 05		
Total	480 46	3275 83	3756 29		
TOTAL COST ON CARS	8350 29	45501 68	53851 97		

Alcohol used during the year, 80000¹/₂ gallons @ .403
 Acetate used during the year, 2740 Lbs. @ 1.523 owt.
 Formaldehyde used during the year, 19755 Lbs. @ .0753.
 Acetone used during the year, 10834 Lbs. @ .1156
 Acetone Oils used during the year, 249090 Lbs. @ .0044.
 Improvement account not charged off 11916.45

Prepared by
 Audited by
 Checked by
 Examined by

PRODUCT	UNIT	MADE		UNIT COST		SHIPPED	
		1 Month	12 Months	1 Mo.	12 Mos.	1 Month	12 Months
Methyl Acetone A	Gals.		307½	.605		307½	
Methyl Acetone AA	"	18698	18039½	.576		18698	18039½
Refined Light Acetone Oils	Lbs.		215107	.022			215107
Superior Spirits	"		4807	.025			4807
Creosote Oil	Gals.		1384	.066			1384
Special Solvent No. 1	"		3091	.469			3091
Special Solvent No. 11	"		8134	.604			8134
Special Solvent No. 12	"		3705	.542			3705
Diamond Spirits	"		6603	.573			6603
Perfumed Spirits	"		2415	.635			2415
Soap Spirits	"		3547½	.562			3547½
Denaturing Alcohol	"	32922½	32177½	.556		32922½	32177½
Formin	Lbs.		5561	.441			4731
Methyl Acetate	Gals.		72	.714			72
Caustic Soda	Lbs.		14040	.041			14040
Refined Tar	Gals.						
Methyl Acetone AAA	"		153	.578			153
Special Solvent #23	"	10	51	.547			51
" " #25	"		5	.610			5
" " #29	"		5	.500			5
Pyroligneous Acid	"		51				51
Anti-Fly	"		310½	.042			310½
Special Spirits #1	"		600	.498			600
Creosote Oils (Returned)	"		85				85
Fomin (Returned)	Lbs.		1229				1229
Special Solvent #27	Gals.		104	.148			104
Heavy Acetone Oils	Lbs.		26951	.022			26951
Chloroform	"		1200	.218			1200
Denaturing Oil	Gals.		200	.558			200
Denaturing Alcohol (Returned)	"		725				725
Methyl Acetone (Returned) AA	"		658½				658½

RECEIVED
FEB 27 1911
Aok. _____ Ans. _____

RECEIVED OF RECEIVED CHEMICAL PRODUCTS

RECEIVED
PIONEER IRON COMPANY

PIONEER IRON COMPANY.
FURNACE DEPARTMENT.
COST SHEET FOR RENTED BUILDINGS.
MARQUETTE, MICHIGAN.

Month of _____ Year, 1910 _____ 191_____

House Number	MAINTENANCE											EARNINGS			
	Painting Outside	Interior Decoration	Carpenter Work	Mason Work	Heating Plant	Plumbing	Walks, Yards and Fences	General Items	Out Build'gs	Total for Month	Total for Year	For the Month	For the Year		
Emil Vermelin	1	1 00			80					1 66		4 86	84 00		
C. Rantanen	2	1 00			80					1 66		4 86	84 00		
H. Goodroe	3	1 00			80					1 66		4 86	84 00		
J. Markantoney	4	1 00			80					1 66		4 86	84 00		
J. Louama	5	1 00			80					1 66		4 86	84 00		
Oscar Storstring	6	1 00			80					1 66		4 86	84 00		
Oscar Elonen	7	1 00			80					1 66		8 11	84 00		
Louis Lewis	8	65			3 25	80				1 66		4 86	84 00		
John Hill	9				80					35		2 66	4 86		
Wm. Gaball	10				80					1 40		2 66	4 86		
H. Joki	11				7 31	80				1 40		1 67	11 18		
Bat Dillion	12	1 34			80					1 40		1 67	5 21		
Gust Hytanen	13	1 00			80					1 40		1 67	4 87		
Steve Harkoski	14	1 00			80					1 40		1 67	4 87		
Chas. Saram	15	1 03			80					7 10		1 67	12 00		
Emmil Gwinn	16				80					8 30		1 67	12 17		
Gust Streleman	17				80					1 40		1 67	5 28		
Geo. Kooach	18				80					1 41		1 67	3 87		
John Koski	19				80					1 40		1 67	3 87		
Peter Lewis	20				80					1 40		1 67	3 87		
Mrs. A. Cassien	21				80					32 28		1 67	36 15		
Phil DeCook	22				80					28 68		1 67	32 55		
Peter VonDala	23				80					28 68		1 67	32 55		
John Fortina	24				80					32 58		1 67	36 45		
Eli Coupela	25				1 50	80				27 68		1 67	32 05		
Wm. Haskins	26				80					27 68		67	30 55		
Mike Potoschneck	27				80					30 78		1 40	53 71		
Louis DePedro	28				80					27 67		20 73	50 60		
Julius Pessens	29				80					27 67		11 88	41 75		
H. Terrela	30				80					27 64		1 41	41 73		
Carp Furnace	1												1 35		
	2												8 35		
	3												0 00		
	4												0 00		
Fair Ave. House, C.G. Peterson										2 80		2 80	84 00		
Austin Farrell, Mgr.		164 44			407 78					501 73	96 23	17 61	1187 79	600 00	
Total.		12 02	164 44		419 84	24 00				808 47	138 24	22 17	108 54	1697 72	3166 35
GENERAL EXPENSE:															
Stationery and Printing,															
Insurance,														107 02	
Taxes,														712 88	
Advertising,															
Legal,															
Traveling,															
Water,														52 32	
Total,														872 22	
Depreciation,														1451 71	
Grand Total Cost of Operating,														4021 65	3166 35
Net Earnings,															855 30
Number of Buildings in Good Repair,		36												36 55	
“ “ “ “ Poor “		00												3166 35	
“ “ “ “ Unrentable,		00												3202 90	
Total Buildings,		36													
Total Number of Untenanted Buildings,		4													
Total Rent Uncollected 1st of Year,														36 55	
Total Rent Earnings—Current Year,														3166 35	
Total,														3202 90	
Total Rent Collected—Current Year,														3181 90	
Total Rent Uncollected End of Year,														21 00	
Construction Acc't not Charged Off,														15978 31	
Insurance Valuation,														31900 00	
Improvement Acc't not Charged Off,														2378 65	

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

Uncollected Rents
 Mrs. P. Cassien 14.00
 C.G. Peterson 7.00
 21.00

Manager's Res. 883.68
 Fair Ave. House 51.08
 Carp Houses 22.70
 Net Loss 855.30

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

RECEIVED

APR 3 - 1911

YEAR

For the ~~Month~~ of

- 1910 - ~~Aug~~ Apr 1911

STATEMENT OF CENTRAL POWER PLANT EXPENSE.

CC'T No.		LABOR	SUPPLIES	TOTAL	TOTALMos.
	Maintenance:				
	Buildings,	78 00	39 27	117 27	
	Boilers,	1100 60	703 14	1803 74	
	Pumps,	101 57	172 45	274 02	
	Generators,	161 93	112 14	274 07	
	Economizers,	123 78	29 22	153 00	
	Stoker,	619 48	2081 91	2701 39	
	Fan Engine,	166 28	14 95	181 23	
	Coal Crusher Apparatus	310 95	260 07	571 02	
	Total,	2662 59	3413 15	6075 74	
	Operating:				
	Firing,	3159 57	21 92	3181 49	
	Oilers and Wipers,	2826 05		2826 05	
	Fan Engineers,	1804 18	16 48	1820 61	
	Removing Ashes,	894 42	40 61	935 03	
	Boilers,	1197 37	294 29	1491 66	
	Pumps,		157 92	157 92	
	Generators,		199 10	199 10	
	Electric Lamps and Wiring,	192 67	436 75	629 42	
	Handling Fuel,	776 41	491 93	1268 34	
	Steam Coal—Tons 1 Mo. @ ^{30¢} 12 Mos. 12316		37206 23	37206 23	
	Cordwood—Cords 1 Mo. @ Mos.				
	Total,	10850 62	38865 23	49715 85	
	Grand Total,	13513 21	42278 38	55791 59	
	Distribution of Expense:				
		Per Cent,			
	× Furnace Operating,				
	× Alcohol Operating, .308 ³⁷⁹⁴ ✓	3617 38	12934 32	16551 70	
	× Acetate Operating, .581 ⁷¹⁵⁶ ✓	6828 77	24438 37	31267 14	
	× Formaldehyde Operating, .038 ⁴⁶⁸ ✓	453 44	1627 16	2080 60	
	× Acetone Operating, .032 ³⁹⁴ ✓	379 60	1325 63	1705 23	
	× Acetic Acid Operating, .010 ¹²³ ✓	121 94	434 39	556 33	
	× Special Chemical Products Operating, .014 ¹⁷² ✓	156 41	582 01	738 42	
	× Sulphuric Acid Operating,				
	× Sodium Acetate Operating,				
	× Acetic Anhydride Operating,				
	× Operating Rented Buildings ✓ .001 ¹²	11 74	40 58	52 32	
	× Central Office Expense, ✓ .005 ⁶²	63 64	213 43	277 07	
	× Shop Expense, ✓ .008 ⁹⁹	113 78	330 80	444 58	
	✓ Switching Expense, ✓ .001 ¹²	4 96	10 99	15 95	
	× Laboratory Expense, ✓ .001 ¹²	7 80	24 53	32 33	
	× Barn Expense, ✓ .001 ¹²	6 00	14 87	20 87	
	Tar Plant ✓	90	4 86	5 76	
	Total, ¹⁰⁰ 12316 %,	11766 36	41981 94	53748 30	
	Furnace Operating,	1746 85	296 44	2043 29	
	Total as above,	13513 21	42278 38	55791 59	

REMARKS:

The above distribution to costs and expenses is based on a factor which is determined by the actual steam, water and electric current consumed, as approved by the Operating Department, February 5th, 1910.

BOILERS.

Number of Boilers in battery, 12.
Total Horse Power, 3960.
Number of Boilers operated, 12.

GENERATORS.

Number of Generators, 2.
Number of Generators operated, 2.
Type of Generator, Westinghouse 150 K. W.,

PIONEER IRON COMPANY,
Furnace Department.

STATEMENT OF SHOP LABOR, 1910.

MACHINE SHOP

1910

STATEMENT OF SHOP LABOR

Furnace Department,
PIONEER IRON COMPANY

Month	Pay Roll	Supplies	Total Debit	Total Hours	Per Hour
Jan.	937.03	43.93	980.96	3436	.2855
Feb.	1071.02	55.99	1127.01	3918	.2876
March	1200.33	132.54	1332.87	4525	.2945
April	1098.39	88.81	1187.20	3957	.2988
May	1097.55	93.08	1190.63	4029	.2955
June	1209.48	206.58	1416.06	4646	.3049
July	1258.12	106.91	1365.03	4648	.2926
Aug.	1420.86	91.51	1512.37	5546	.2727
Sept.	1251.36	93.51	1344.87	4692	.2865
Oct.	1631.95	104.20	1736.15	6445	.2694
Nov.	1791.98	74.21	1866.19	7185	.2597
Dec.	1961.53	91.40	2052.93	7889	.2602
Total	15919.60	1182.67	17102.27	60916	.28075

BLACKSMITH SHOP

Jan.	72.27	10.20	82.47	245	.3366
Feb.	73.75	6.62	80.37	250	.3215
March	79.65	18.61	98.26	264	.3722
April	77.29	5.48	82.77	262	.3159
May	76.99	13.36	90.35	269	.3356
June	77.58	9.46	87.04	263	.3309
July	75.81	29.16	104.97	256	.410
Aug.	111.82	11.71	123.53	422	.2927
Sept.	118.16	12.54	130.70	476	.2745
Oct.	135.57	11.55	147.12	545	.270
Nov.	129.61	9.97	139.58	523	.267
Dec.	128.39	9.37	137.76	521	.2646
Total	1156.89	148.03	1304.92	4296	.30375

CARPENTER SHOP

Jan.	279.30			1047	.2668
Feb.	646.20			2539	.2545
March	779.60			3066	.2543
April	268.41			1085	.2472
May	354.72			1409	.2517
June	618.72			2361	.2621
July	821.43			3137	.2618
Aug.	862.51			3158	.2731
Sept.	679.00			2536	.2677
Oct.	1094.11			3901	.2804
Nov.	1439.59			5338	.2698
Dec.	1601.60			6250	.2562
Total	9445.19			35827	.2636

Made by *APC*
 Figured by *AS*
 Copied by *AS*
 Corrected by *AS*
 Examined by *edm*

P I O N E E R I R O N C O.
Furnace Department

COMPARATIVE STATEMENT OF STABLE EXPENSES FOR 1910 AND 1909

	1910				1909			
	Labor	Sup- plies	Total	Cost per Horse Per Day	Labor	Sup- plies	Total	Cost per Horse Per Day
✓ Hay		1034 46	1034 46	243		703 33	703 33	163
✓ Oats		1017 93	1017 93	239		1411 00	1411 00	327
✓ Feed and Bran		22 10	22 10	005		27 65	27 65	006
✓ Corn		42 79	42 79	010		46 20	46 20	011
✓ Straw		44 76	44 76	011		57 47	57 47	013
✓ Oils and Grease		18 58	18 58	004		11 40	11 40	003
✓ Combs & Brushes		8 15	8 15	001		2 85	2 85	001
✓ Shovels, Brooms & Pails		7 41	7 41	001		6 10	6 10	001
✓ Medicine		38 70	38 70	009		10 80	10 80	003
✓ Veterinary Service		41 00	41 00	010		34 00	34 00	007
✓ Shoeing	153 21	62 86	216 07	051	136 90	80 20	217 10	050
✓ Repairs Carts, Wagons & Sleighs	128 66	136 07	264 73	062	104 56	64 20	168 76	040
✓ Repairs Harness	13 65	127 25	140 90	033	4 50	78 24	82 74	019
✓ Repairs to Building	26 90	135 86	162 76	038	12 45	30 28	42 73	010
Electric Lamps & Wiring	78	12 35	13 13	003	3 60	4 10	7 70	002
Insurance		9 96	9 96	002				
Barn Boss	120 00		120 00	028	130 00		130 00	030
Central Power Expense	6 00	14 87	20 87	005				
Total	449 20	2775 10	3224 30	755	392 01	2567 82	2959 83	686

Distribution:-

	<u>No.</u> <u>Horses</u>	<u>No.</u> <u>Days</u>	<u>No.</u> <u>Horses</u>	<u>No.</u> <u>Days</u>
Horses on Cinder Carts	3	1095	3	1188
Horses on Braize Carts	2	730	2	792
Horses on Filter work	1	304	1	366
Horses at Acetone Plant	2	696	2	792
Horses on team work	4	1435	2	792
Horses hauling stove & boiler refuse	---	---	1	386
Total	12	4260	11	4316

Remarks:-

All construction has been charged off

15

PIONEER IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF FIRE INSURANCE AS OF DECEMBER 31st., 1910

Policy Number	Company	Agency	Property Insured	Term	Date of Expiration	Amount	Premium	Accrued Previous Year	Accrued Current Year	Total Accrued	Balance	Remarks	Total Ins. Carried Property	Amount	Rate	Losses
5123599 84	N. British & Merc. Royal Insurance Company	P. White Co.	Office & Lab. Bldg & Cont. & Dwellings	3 Yrs.	11/30/11	6400.	105 60	38 43	34 94	73 37	32 23		Office & Lab. Bldg.	5000.	3 75	None
		" " "	" " "	" " "	" " "	6400.	105 60	38 43	34 94	73 37	32 23		" " Fur- niture & Fixtured Dwellings	1400.	3 75	"
1510 1282	Providence-Washington Queen	Marq.Natl. Bk.	" " "	" " "	" " "	3000.	49 50	17 81	16 62	34 43	15 07			19200.	95	"
6468089	London & Lancanshire	" " "	" " "	" " "	" " "	4000.	66 00	23 79	22 08	45 87	20 13					
2009941	American Central	" " "	" " "	" " "	" " "	3000.	49 50	17 81	16 62	34 43	15 07					
		" " "	" " "	" " "	" " "	2800.	46 20	16 34	15 78	32 12	14 08					
						25600	422 40	152 61	140 98	293 59	128 81			25600.		
92301 6468152	Phoenix London & Lancanshire	P. White Co. Marq.Natl Bk	Sup., Chem. Sup. & Barn Carpenter Shop & W. House	3 Yrs.	12/ 1/12	3525	117 81	3 36	39 24	42 60	75 21		Supplies	5000.	3 12	None
						3525	117 81	3 36	39 24	42 60	75 21		Chem. Supplies	250.	3 87	"
													Barn	800.	3 75	"
													Carpenter Shop	500.	4 87	"
													Warehouse	500.	3 12	"
						7050.	235 62	6 72	78 48	85 20	150 42			7050.		
1580 50269 1415	Providence-Washington Palatine Queen	Marq.Natl Bk	Manager's Residence	3 Yrs.	12/ 1/12	3500.	36 75	1 02	12 27	13 29	23 46					
		" " "	" " "	" " "	" " "	2000.	21 00	58	7 08	7 66	13 34					
		" " "	" " "	" " "	" " "	1750.	18 38	56	6 19	6 75	11 63					
101512	Commercial Union	" " "	" " "	" " "	" " "	1500.	15 75	44	5 19	5 63	10 12					
5820232	Norwich Union	P.White Co.	" " "	" " "	" " "	1750.	18 38	56	6 19	6 75	11 63					
						10500.	110 26	3 16	36 92	40 08	70 18		Managers Res.	10500.	1 05	None
2773 2081 1462	Aetna Ins. Co. of N. America Queen	P.White Co. Marq.Natl.Bk	Carp Furnace	1 Yr.	4/14/11	2500.	93 25		66 05	66 05	27 20					
		" " "	" " "	" " "	" " "	2500.	93 25		66 05	66 05	27 20					
685963	Granite State	" " "	" " "	" " "	9/ 8/11	2500.	93 30		66 10	66 10	27 20					
1556	Providence-Washington	" " "	" " "	" " "	8/ 2/10	2500.	93 30	38 91	29 20	29 20	64 10					
1325	Queen	" " "	" " "	" " "	4/14/10	2500.	93 30	66 13	27 19	27 17	0 00	Cancelled 4/14/10)				
2685	Aetna	Peter White	" " "	" " "	" " "	2500.	96 25	68 17	28 08	28 08	96 25					
2032	Ins. Co. of N. America	Marq.Natl Bk	" " "	" " "	4/14/11	2500.	93 30		38 87	38 87	0 00	Cancelled 9/8/10				
							845 50	241 38	376 79	618 17	145 70		Carp Furnace	10000.	3 79	None
3129	Home	P.White Co.	Carp Houses	3 Yrs.	12/ 1/12	1200.	16 20	45	5 40	5 85	10 35		Carp Tenmt. Hses.	1200.	1 35	None
3040241	Royal Exchange	Marq Natl Bk	Fair Avenue House	3 Yrs.	12/ 1/12	1000.	9 50	40	3 12	3 52	5 98		Fair Ave. House	1000.	95	None
6468149	London & Lancanshire	" " "	Locomotive	3 Yrs.	12/ 1/12	1000.	25 00	85	8 28	9 13	15 87		Locomotive No. 4	1000.	95	None
			Grand Total				1664 48	405 57	649 97	1055 54	527 31			56350.		
			Less unearned premiums on cancelled policies				81 63									
							1582 85									

Remarks:- All property located at Marquette

Distribution

To adjust last years undercharges

Central Office Expense	80.03	2 93	82 96
Rented Buildings	106 39	63	107 02
Barn Account	9 96	83	10 79
Shop Labor	8 16	68	8 84
Chemical Supplies	3 24	27	3 51
Supplies (cont. 53.83)	57 12	4 94	62 06
Switching	8 28		8 28
Carp Idle Expense	376 79	16 92	393 71
Total	649 97	27 20	677 17

Made by W.H.
Figured by W.H.
Copied by W.H.
Corrected by W.H.
Examined by W.H.

36.92
71.10
108.02

PIONEER IRON COMPANY.
Furnace Department.

STATEMENT OF UNINSURED PROPERTY.
DECEMBER 31ST., 1910.

AT MARQUETTE, FURNACE NO. 2.

	<u>Name of Property</u>	<u>Value</u>	<u>Remarks</u>
	Engine & pump house & contents	12000.00	Incombustible
	Stack & Stoves	16500.00	"
	Hoist house & Contents	6000.00	"
	Boiler House & Contents	60000.00	"
	Cast House	15000.00	"
	Stock House	14000.00	"
	Dry Blast building & contents	100000.00	"
	Two Scale houses	100.00	"
	Locomotive house	2500.00	"
	Ore Crusher plant	6000.00	"
#	One Primary house & Contents)		Composite Structure
#	One refining house & Contents)	145000.00	" "
	One barrel storgae house)	3000.00	" "
	One filter pump and contents)	900.00	" "
	Seven motor & fan houses ")	4000.00	" "
	One C.P. water power house")	2500.00	" "
	One acetate building & " X	17000.00	" "
	One formaldehyde building, addition & Contents	15000.00	" "
	One acetone building & contents	40000.00	" "
	One collier's shanty, lime shed & Contents	1200.00	Wooden bldg. sheeta
	One machine, 'smith and electrician shop	8000.00	Incombustible
	Two hose houses	100.00	Wooden bldg.
	One hook & ladder house	50.00	" "
	One fine chemical bldg. & Contents	8000.00	Incombustible
	One fine chemical bldg. addition & Contents	3500.00	Composite Structure
	One tar still house and tanks	3000.00	Wooden bldg. sheeded
	Two acetic acid buildings and contents	30000.00	Incombustible
	One Repair shop	1000.00 x	"
%	One Anhydrous acetic acid building	15000.00 x	"
%	1-Sulphuric Acid building	90000.00 x	"
%	One acetic acid and acetic Anhydride storage house	4000.00 x	Composite Structure
%	One wood retort building	4000.00 x	" "
	2680 feet of smoke mains	14000.00	Wooden
	Four battery's smoke condensers	40000.00	"
	1010 feet ore trestle	7800.00	"
	2040 feet kilns trestle	15700.00	"
	280 feet coal Trestle	2500.00	"
	180 feet lime trestle	1200.00	"
	86 kilns	60000.00	Incombustible

Buildings on which we carry our own insurance
% Buildigs not yet completed.

AT MARQUETTE, CARP RIVER FURNACE:-

Everything is insured.

X - Property not reported in previous statement.
Made by J.H.S.
Copied and corrected by F.A.
Examined by C.S.M.

PIONEER IRON COMPANY
Furnace Department

RECEIVED

ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES
(Account No. 106)

APR 1 - 1911

Acc. _____ Ans. _____

Acct.
No.

1910

1909

Pig Iron Cost Sheet

c. Estate of John Anderson

1256.33 ✓

Alcohol Cost Sheet

b. Ambulance acct. H. Wightman

2.00

Hospital fee "

5.00

Burial expenses "

125.75

Mrs. H. Wightman "

47.50

180.25 ✓

Acetone Cost Sheet

a. Chas. Martin

80.00 ✓

Total

260.25 1256.33 ✓

*Made, figured, copied
and corrected by JMA
Examined by CDM*

JMA

Pioneer Iron Company

Furnace Department.

COMPARATIVE STATEMENT OF TAXES, 1910 AND 1909.

	Acres	1910		1909	
		Valuation	Taxes	Valuation	Taxes
CITY OF MARQUETTE:-					
Furnace Plant (Real Estate)	114.50	400000 00	11019 05	350000 00	9718 10
" " (Personal)		83900 00	2311 29	73500 00	2046 36
Manager's Residence		9400 00	258 97	9400 00	261 04
SW $\frac{1}{4}$ of NE $\frac{1}{4}$, 14-48-25	39.40	5400 00	148 78	5400 00	197 42
Burt & Ely Addition #		4515 00	124 72	4515 00	126 23
Carp Furnace (Real Estate)	64.25	20300 00	559 24	20300 00	563 67
" " (Personal)		540 00	14 88	1200 00	33 35
Ely Park Add. Lots 1 to 63 inc.		3000 00	82 65	3000 00	109 10
Lot No. 2, Sec. 14-48-25	38.10	3000 00	82 65	3000 00	109 11
Portion of Lot No. 301, Ely Park		200 00	6 26	200 00	5 57
Total		530255 00	14608 49	470515 00	13169 95
CHARGED TO:-					
	Per Cent				
Furnace Plant	.42		5598 88		4413 82
Alcohol Plant	.42		5598 88		4311 16
Acetate Plant	05		666 53		513 22
Formaldehyde Plant	04		533 20		470 58
Acetone Plant	03		399 91		352 93
Special Chem. Products	01		133 03		
Rented Buildings			712 88		669 27
Manager's Residence		258 97		261 03	
Furnace Houses	03	399 91		352 93	
Fair Avenue House		27 00		27 50	
Carp Houses		27 00		27 81	
Carp Furnace			671 84		695 44
F. A. Morse, Treasurer			293 34		393 53
Relinings & Renewals					645 00
Alcohol Idle Expense					630 00
Acetate Idle Expense					75 00
Total			14608 49		13169 95

Remarks:-

- Lots No. 28 to 35 inclusive)
- " " 38 to 43 ") Burt & Ely addition to the City of Marquette.
- " " 54 to 73 ") The taxes paid by the Land Department, \$48.08, on
- " " 79 to 83 ") this property are included above.

The percentages shown above are the basis of distribution to the various plants and are based on construction costs of the plants.

Made by H.P.J.
 Rec'd by
 Check - C.M.T.
 con. - C.M.T.
 rec'd - C.M.T.

PIONEER IRON COMPANY
Furnace Department.

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING FISCAL YEARS 1910 AND 1909.

Account of	Grade	Year 1910.			Year 1909. ¹³ MOS.		
		Net Tons-Lbs	Price	Amount	Net Tons-Lbs	Price	Amount
From James Pickands & Co.	Yough $\frac{3}{4}$	1294-800	2.542	3290.35	1863-1950	3.0000	4091.93
" Lake Erie Ports	Gas	203-1300	2.150	437.85	13321-1680	1.9658	26188.04
" " " "	Slack	89-1100	1.700	152.24			
" " " "	Yough $\frac{3}{4}$	14290-300	2.261	32318.65			
Total		15877-1500	2.279	36194.09	14685-1630	2.0620	30279.97
Switching by Furnace Engine			.020	314.58		.0230	361.20
Supplies				0.00		.0000	9.53
Lake Freight			.279	4434.67		.2730	3996.66
Unloading & Switching from boat			.277	4404.72		.2710	3971.95
Insurance			.003	53.83		.0020	32.83
Analysis			.005	75.00		.0040	54.06
Dumping & Trimming			.053	819.21		.1770	2598.10
Total -		15877-1500	2.916	46296.10	14685-1630	2.812	41304.30
Inventory beginning of year		5194-0090	2.935	15245.24	6079-0460	2.980	18114.74
Grand Total -		21071-1590	2.921	61541.34	20765-0090	2.861	59419.04
CHARGED TO:-							
Central Power Plant		13316-0000	3.021	37206.23			
Acetate Plant		892-0000	2.984	2661.92			
Acetone Plant No. 1		265-0000	3.065	812.10			
Acetone Plant No. 2		1549-0000	2.980	4626.56			
Tar Plant		39-0000	3.120	121.75			
Locomotive	} <i>Switching Expense</i>	328-0000	3.010	987.45	272-0000	2.755	749.28
Locomotive Crane		90-0000	3.030	273.01	4-0000	2.650	10.60
Furnace					231-0000	2.800	646.25
Relining & Renewals					919-0000	3.061	2831.87
Alcohol Plant					2249-0000	2.800	6293.19
Alcohol Plant Idle Expense					99-0000	3.081	304.97
Acetate Plant					8156-0000	2.836	23130.35
Formaldehyde Plant					1697-0000	2.874	4877.94
Acetone Plant					1676-0000	2.733	4580.39
Tar Plant Operating					69-0000	3.023	208.61
Fine Chemical Plant					17-0000	2.745	46.67
Dry Blast Test - Imp.					171-0000	2.715	462.68
Tar Plant Improvement					11-0000	2.820	31.00
Total -		15479-0000	3.016	46689.02	15571-0000	2.837	44173.80
End On hand of year		5592-1590	2.656	14852.32	5194-0090	2.93515	15245.24
ANTHRACITE SCREENINGS							
From Local Dealers		355-440	4.111	1460.32	449-1331	4.075	1832.39
Freight			.085	30.40		.104	46.86
Switching			.021	7.22		.028	12.60
Inventory beginning of year		355-440	4.217	1497.94	449-1331	4.207	1891.85
		000-00	0.00	0000.00	17-0270	4.122	70.63
Grand Total -		355-440	4.217	1497.94	466-1601	4.204	1962.48
CHARGED TO:-							
Acetone Plant		355-440	4.217	1497.94	466-1601	4.204	1962.48
On hand end of year		0-000			0-000		

REMARKS:-

1909: Dumping and trimming high due to large amount of trimming done on coal dock in order to take care of the increased tonnage.
Increased cost of Anthracite screenings due to large amount hauled out to plant via team, on which there is an extra charge of 50 ¢ per ton.

1910: Dumping and trimming charge low due to large amount of coal being handled by the Locomotive Crane.

Made by ASP
 Signed by ASP
 Copied by ASP
 Corrected by ASP
 Examined by ASP

Pioneer Iron Company

Furnace Department.

COMPARATIVE WOOD REPORT, YEARS 1910-1909.

	<u>1910</u>	<u>13 MOS.</u> <u>1909</u>
	<u>Cords</u>	<u>Cords</u>
Inventory Dec. 1st.:-		
In yard	3083.000	5940.000
In Kilns	5476.000	5642.000
Total	8559.000 ✓	11582.000 ✓
<u>Received from:-</u>		
Munising East	41088.500	38900.500 ✓
Munising West	29008.750	22649.375 ✓
Autrain	1829.750	0.000
Rumely Softwood job		1759.375
Rumely-Dorsey Softwood job		1377.250
Rumely-Diemling Softwood job		198.750
Rumely-Eben		933.750 ✓
Carp Furnace Yard	2850.000 ✓	
Jobbers	656.000	2328.750 ✓
Total	75433.000	68147.750
Total on hand & Recd.	83992.000	79729.750
Wood consumed:-		
Carbonized in kilns	76371.000 ✓	70837.750
Sold to tennants	440.000	333.000
Total	76811.000	71170.750
Inventory end of fiscal year:-		
In yard	1409.000 ✓	3083.000 ✓
In kilns	5772.000 ✓	5476.000 ✓

Made by HJD
 Fig. by
 Copied by E.H.K.
 Cor. by HJD
 Exam. by C.M.

Pioneer Iron Company

C A R P
Furnace Department.

Pioneer Iron Company

Furnace Department

COMPARATIVE WOOD REPORT

1910 - 1909

COMPARATIVE WOOD REPORT YEARS, 1910 1909.

	<u>Cords</u> <u>1910</u>	<u>Cords</u> <u>1909</u> 15 MOS.
Wood Received:-		
Inventory beginning of fiscal year		
In yard	2883.025 ✓	1890.000 ✓
In kilns		1829.000 ✓
From Rumley		158.000 ✓
" " Softwood		108.000 ✓
" E b e n		0.000
" Jobbers		727.250 ✓
Total	2883.025	4712.250 ✓
Wood consumed:-		
Carbonized in kilns		2216.000 ✓
Shipped to No. 2 furnace	2850.000	
Shortage	33.025	
Overrun		387.000 ✓
Total	2883.025	1829.000 ✓
On hand end of fiscal year:-		
In yard	0.000	2883.250 ✓
In Kilns	0.000	0.000

Made by Hgs
 Figured by [initials]
 Copied by [initials]
 Corrected by [initials]
 Examined by [initials]

Pioneer Iron Company

Furnace Department.

STATEMENT OF THE BASIS OF DIVISION OF COMMON EXPENSES:

YEAR 1910.

Central Office Expense:-	Based on Operating Pay Rolls.
Laboratory Expense:-	Based on Operating Pay Rolls.
Chemical Superintendent:-	(Based on Operating Pay Rolls, Alcohol, (Acetate, Formaldehyde and Acetone Plants (only.
Central Power Expense:-	Based on Steam, Water and Electric Current used.
Barn Expense:-	Based on Horse Hours.
Switching Expense:-	Based on Cars Switched.
Crane Expense:-	Based on actual Hours worked.
Shop Labor:-	Based on actual Hours worked.

Made by Agg
Checked by ✓
Controlled by ✓
Exp. by com

P I O N E E R I R O N
Furnace Department

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENTS FOR THE YEAR ENDING DECEMBER 31, 1910.

A U T H O R I Z A T I O N C O S T D I S P O S I T I O N B A L A N C E

No.	Description	Amount	Current Year	Total to Date	Unexpended Balance	Cost Sheet or Account	Item	Rate	Unit	Current Year	Total to Date	Amount	Remarks	Completed
7	Furnace Additional Skip	550.00	675 00	420870 02		Pig Iron	Dep	1.00	Ton	35115 00	270121 00	150749 02	Based on Iron produced.	June 1903
	Sup. Est.	125.00		645 00								675 00		
4	Fence Around Plant	246.50	252 65	252 65								252 65		Apr. 1904
	Sup. Est.	6.15												
51	Gayley Dry Blast	90257 00		101097 43	10840 43							101097 43		Sept. 1909
49	Revolving Furnace Top	2500 00		2196 57								2196 57		Oct. 1908
76	New Side Track	1799 16	2100 00	2100 00	300 84	Pig Iron				2100 00	2100 00	0 00	Based on Iron produced.	Apr. 1910.
	TOTAL FURNACE		2100 00	527191 67						37215 00	272221 00	254970 67		
1	Six New Kilns	6866 40		104443 73	195 41	Charcoal	Dep	1/2%	Bu	8274 89	60951 19	43492 54	Based on Charcoal prod.	Nov. 1903
	TOTAL KILNS			7061 81		"	"	"	"	528 18	1877 67	5184 14	Based on Charcoal prod.	Aug. 1903
	Alcohol Plant			111505 54						8803 07	62828 86	48676 68		
4	Fence Around Plant	246.50	252 64	433732 10		Alcohol	Dep	10%	Yr	43380 00	323567 08	110165 02		June 1903
	Sup. Est.	6.14		252 64								252 64		Apr. 1904
9	Chute Apparatus	9346 80		4399 64		"	"	15%	"	660 00	2695 00	1704 64		Dec. 1905
	Experimental Condensers			558 21		"	"	"	"		557 21	1 00		Oct. 1906
56	Lumas Column	6194 20		6163 48		"	"	25%	"	1540 92	2182 97	3980 51		Apr. 1908
45	Alcohol Storage Tanks	3644 50		3509 21		"	"	20%	"	701 88	1462 25	2046 96		May 1908
73	Continuous Vacuum Dist. App.	54230 00	37942 45	53432 57	807 43	"	"	"	"			53432 57		NC
61	Steam Pressure Regulator	440 00	300 00	432 42		"	"	25%	No.	432 42	432 42	0 00		Dec. 1909
71	Remod. Prim. Bldg. & Refg. App.	17497 70	14246 27	16178 68	680 98	"	"	"	"			16178 68		NC
72	Continuous Column for Neut. Liquor	7810 00	5076 78	7288 82	521 18	"	"	"	"			7288 82		NC
66	Repair Shop for Tanks & Stills	1137 10	1550 75	1673 88	536 78	"	"	"	"			1673 88		Aug. 1910
79	Two Columns & Accessories	3300 00	2449 33	2449 33	850 67	"	"	"	"			2449 33		NC
	TOTAL ALCOHOL PLANT		61565 58	532070 98						46715 22	330896 93	201174 05		
	Acetate Plant			29870 52		Acetate	Dep	10%	Yr	3120 00	19460 00	10410 52		May 1904
9	Installing Acetate Pans	3500 00		4189 22	689 22	"	"	11%	"	497 52	2530 26	1658 96		Mar. 1905
22	New Dry Floor	4818.00	7818 00	7993 65	175 65	"	"	13 1/2%	"	1090 08	4360 32	3633 33		Oct. 1906
	Sup. Est.	3000.00												
30	Acetate Experimental Tower	3108 47		2859 15		"	"	"	"		2858 15	1 00		Nov. 1907
11	Lillie Evaporator	8050 00		8412 41	362 41	"	"	12%	"	1032 24	4971 70	3440 71		Oct. 1905
17	Acetate Conveyor	1000 00		486 15		"	"	"	"	58 92	289 67	196 48		Sept. 1905
36	12 New Acetate Tanks	2671.47	2875 68	2875 68		"	"	15%	"	448 08	1381 58	1494 10		Aug. 1907
	Sup. Est.	204.21												
68	Acetate Dryer	26834 50	9307 24	14864 01	11970 49	"	"	"	"			14864 01		NC
	TOTAL ACETATE PLANT		9307 24	71550 79						6246 84	35851 68	35699 11		
6	Formaldehyde Plant	14356 41		26455 69	12099 28	Formaldehyde	Dep	10%	Yr	2820 00	18195 85	8259 84		Apr. 1904
33	Formaldehyde Plant Add.	12128.08	12998 08	12999 68		"	"	16%	"	2095 56	6461 31	6138 37		Oct. 1907
	Sup. Est.	870.00												
55	Formaldehyde Storage Tanks	1410 00	204 00	1343 07		"	"	25%	"	284 76	284 76	1058 31		Nov. 1909
	TOTAL FORMALDEHYDE PLANT		204 00	40398 44						5200 32	24941 92	15456 52		
35	Acetone Plant	10084.02	14864 02	14636 67		Acetone	Dep	10%	Yr	1463 64	4512 89	10123 78		Nov. 1907
	Sup. Est.	4600.00												
54	Acetone Plant Addition	14068 14		18523 92	4455 78	"	"	11%	"	2110 88	3928 96	14594 96		Mar. 1909
57	Two New Acetone Retorts	5103 06		5802 18	699 12	"	"	12 1/2%	"	725 28	725 28	5076 90		Dec. 1909
58	One New Acetone Retort	2758 06		2901 05	142 99	"	"	"	"	362 64	362 64	2538 41		Dec. 1909
82	Three Additional Retorts	10076 00												
	TOTAL ACETONE PLANT			41863 82						4661 64	9529 77	32334 05		
44	Fine Chemical Building	10917 50	680 70	9145 33	1772 17	Special Products	Dep	10%	Yr	846 48	846 48	8298 85		NC
60	Experimental Electrolytic Cell	4411 50	334 39	3982 40		"	"	"	"	364 80	364 80	3617 60		Mar. 1910
	TOTAL SPECIAL PRODUCTS		1015 09	13127 73						1211 28	1211 28	11916 45		
48	Tar Stills & Accessories	3000 00		3069 31	69 31	Tar Idle Expense	Dep	10%	Yr	255 80	255 80	2762 35		Jan. 1909
	Refined Tar									51 16	51 16			
77	Sulphuric Acid Plant	116000 00	106917 26	106917 26	9082 74							106917 26		NC
81	Sulphuric Acid Storage Tanks	7700 00	4664 96	4664 96	3035 04							4664 96		NC
69	Sodium Acetate Apparatus	22880 00	8946 58	8958 62	13921 38							8958 62		NC
59	Acetic Acid Plant	27223 30	21584 23	41891 74	14668 44	Acetic Acid	Dep	10%	Yr	2700 00	2700 00	39191 74		Aug. 1910
70	Acetic Anhydride Plant	62230 50	30572 96	40955 50	21275 00							40955 50		NC
75	New Fence Around Plant	3864 00	4884 03	4884 03	1020 03							4884 03		NC
74	Two Meyer Retorts	15400 00	11796 03	11796 03	3603 97							11796 03		NC
80	Acetic Anh. & A.A. Stor. House	4446 31	1758 37	1758 37	2687 94							1758 37		NC
	Rented Houses			15703 59		Rented Buildings	Dep	Net	Ea.	1451 71	15636 61	66 98		Sept. 1904
3	Five New Tenement Houses	7250 00		7220 00								7220 00		Jan. 1905
	Manager's Residence			10649 50		Central Office, Rentals				965 70	1958 17	8691 33	Purchased July 1903	
10	Improvement Site Tene. Hses	1097.61	1310 09	1310 09							350 81	929 28		June 1905
	Sup. Est.	212.48												
	TOTAL HOUSES			34883 18						2417 41	17975 59	16907 59		
	TOTAL NO. 2 FURNACE		265316 33	1597487 97						115477 74	758463 99	639023 98		
21	Carp Furnace			31961 98		Carp Pig Iron	Dep	.50	Ton		14728 00	17233 98	Based on Iron produced	
	Carp Hot Blast	2438.96	5974 58	5974 58								5974 58		Jan. 1907
	Sup. Est.	3535.62												
	TOTAL FURNACE			37936 56							14728 00	23208 56		
40	Carp Kilns			15036 02		Carp Charcoal	Dep	1/2%	Bu		4867 82	8170 20	Based on Charcoal prod.	
	Carp Tenement Houses	1380.00	1895 00	1533 47		Rented Buildings	Dep	Net	Ea.		84 10	1449 37		Aug. 1907
	Sup. Est.	515.00												
	TOTAL CARP FURNACE			52508 05							19679 92	32828 13		
	GRAND TOTAL NEW CONSTRUCTION & IMP.		265316 33	1649996 02						115477 74	778143 91	871852 11		

Remarks:-
Items marked "NO" have not been completed.

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT FOR THE YEAR ENDING DECEMBER 31st., 1910.

A U T H O R I Z A T I O N			C O S T			D I S P O S I T I O N					B A L A N C E		R E M A R K S	C O M P L E T E D
No.	Description	Amount	Current Year	Total to Date	Unexpended Balance	Cost Sheet or Account	Item	Rate	Unit	Current Year	Total to Date	Amount		
8	Filtration Plant Sup. Est.	1335.40 250.00	1585 40	1646 81	61 81							1646 81		
62	Chemical Plant Sylls	597 00												
63	Locomotive Crane	7975 00	7975 00	7975 00		Operating Crane	Dep	20%	Yr	1593 00	1593 00	6382 00	Purchased Dec. 1909	
64	Wood Trestles Sup. Est.	682.51 6101.00	2317 30	2516 28	4267 23	Charcoal	Repairs			620 08	819 07	1697 21		NC
65	Chemical Plant Water Trough	562 69												
67	Copper Tubular Separator	930 60	926 76	926 76		Alcohol	Maint. T. & S.			926 76	926 76	0 00		Sept. 1910
78	Repairs Manager's Residence Sup. Est.	370.00 420.00	811 51	811 51	21 51	Rented Buildings				811 51	811 51	0 00		Sept. 1910

Pioneer Iron Company

Furnace Department.

NEW CONSTRUCTION & IMPROVEMENT WHICH HAS BEEN CHARGED OFF
DECEMBER 31st., 1910

Authy.
 No.

Description

Amount
 Authorized Total
 Cost

Authy. No.	Description	Amount Authorized	Total Cost
FURNACE NO. 2 GROUP:-			
# 42	Acetate Storage House	1364.98	1347.13 ✓
61	Steam Pressure Regulator	440.00	432.42 ✓
76	New Side Track	1799.16	2100.00 ✓
CARP FURNACE GROUP:-			
23	Addition to Carp Cast House	1170.00	1186.39 ✓
CARP KILN GROUP:-			
	Carp Smoke Condensers		41.00 ✓
	Carp Furnace New Kilns	3150.70	15.00 ✓
HOUSE GROUP:-			
	Repairs to Rented Houses, No. 2 furnace		446.76 ✓
	Repairs to rented Houses, Carp furnace		3.15 ✓

Remarks:-

This item is charged to Acetone Plant Addition, E & A No. 54.

Made by *HGS*
 Fig. by *HGS*
 Cor. by *CWH*
 Cor. by *HGS*
 Exam. by *CHM*

30

Made by *HGS*
 Figured by *HGS*

PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.
FURNACE DEPARTMENT.

Stock Report for Month ending Dec. 31st., 1910

THE STENLEIN BINDERY, NILES, MARQUETTE, MICH.

	PRODUCED OR RECEIVED						USED				
	Total for Month	Previous Months	Over and Short for Season	Total from Jan. 1st, 1910	On Hand Jan. 1st, 1910	TOTAL	Total for Month	Previous Months	Over and Short for Season	Total from Jan. 1st, 1910	Balance on Hand
ORE:											
Lake	5956-1560	41408-180		47364-1740	1831-0000	49195-1740	5748-2216	42985-1764		48734-1740	461-0000
Cliffs Shaft	128-880			128-880	200-0000	328-880	145-570	331-763	148-453	328-880	
Lake Silica					200-0000	200-0000		200-0000		200-0000	
Clinton Silica	441-960	2746-210		3187-1170	105-0000	3292-1170	404-1493	2568-1917		2973-1170	319-0000
Maas		21370-1900		21370-1900		21370-1900		21730-939	359-1279	21370-1900	0-0000
Lucy		1920-1550		1920-1550		1920-1550		1920-1550		1920-1550	
Cambridge	372-1320			372-1320		372-1320	354-1320			354-1320	18-0000
Total,	6899-240	67445-1600		74344-1840	2336-0000	76680-1840	6653-1119	69737-213	507-1732	75882-1840	798-0000
WOOD:											
Kilns	6215½	70451½		76667	5476	82143	6433½	69937½		76371	5772
Yard		289½		289½	3083	3372½	649½	1313½		1963½	1409
Total,	6215½	70741		76956½	8559	85515½	7082½	71251½		78334½	7181
LIMESTONE:											
Pyrites		2579-2080			1287-0000	3866-2080	92-1536	2571-544		2663-2080	1203-0000
Charcoal produced Bu.	291881	1876-148		3521229		3521229	291881	3229348		3521229	1876-148
" Used through Furnace Bu.		3229348					281340	3214465		3495805	
" at Ore Bins Bu.							3240	5149		8389	
" " " Various Bu.							7301	9734		17035	
Acetic Acid Packages at Marquette											
Barrels	454	1127		1581		1581	284	1065		1349	232
Half barrels		10						10			
Carboys		1437						1437			
At W. Ho. & Customers											
Barrels	289	1065		1354		1354	196	67		263	1061
Half barrels		10		10		10					10
Carboys		1437		1437		1437	1			1	1436
Stock of Iron Drums at Marquette											
Small D	10	11		21		21	10	2		12	9
Small A	6	345		351	44	395	44	261		305	90
Medium	246	3199		3445	283	3728	281	3089		3370	358
Large		33		33	1	34	2	30		32	2
Stock of Iron Drums at Gladstone											
Small	1	183		184	74	258	26	231		257	1
Medium	11	547		558	72	630	48	528		576	54
Large											
Stock of Iron Drums at Warehouses and Customers											
Small D	10	2		12		12					12
Medium	70	338		408	143	549	7	325		332	219
Large	327	3439		3766	636	4402	258	3233		3491	911
	2	30		32	26	58		30		30	78

Made by *W.S.P.*
 Checked by *W.S.P.*
 Approved by *W.S.P.*
 Date *12/31/10*

PIONEER IRON COMPANY.

PIONEER FURNACE No. 2.

Pig Iron Stock Report for the Week Ending December 31st., 1910.

PIG IRON GRADES	PRODUCTION								SHIPMENTS						Balance in Stock	
	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Produced Since Jan. 1st. 1910.	Transferred to and from	On Hand Jan. 1st. 1910.	Total Produced and in Stock Since Jan. 1st. 1910.	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season		Total Since Jan. 1st. 1910.
A Scotch	9		9	2191		2200 ✓		1082	3232		72	72	847		919	2363
B Scotch				1623		1623 ✓	19	127	1769		20	20	1275		1295	474
C Scotch	27		27	1710		1737 ✓	19	1662	3350				829		829	2551
No. 1 Low	5		5	2146		2151 ✓		946	3097		201	201	1560		1761	1326
No. 1 High	28	50	78	2755		2833 ✓		2305	5138				2728		2728	2410
No. 2 Low	267	149	416	4424	25	4815 ✓		1637	6452	1		1	3741	25	3717	2735
No. 2 High	201	821	1022	6981		8003 ✓		2311	10314				7297		7297	3017
No. 3 Low	132	295	427	4112		4539 ✓		704	5243				4302		4302	941
No. 3 High	94	284	378	1662		2040 ✓	85	480	2605	4	5	9	2057		2066	539
No. 3 Low Car Wheel				1787		1787 ✓		207	1994				1320		1320	674
No. 3 High Car Wheel				1099	1	1100 ✓	85	25	1040				1005	1	1006	34
No. 4 Low	76	130	256	567	2	825 ✓	65	121	1011				663	2	665	346
No. 4 High	19	138	157	621		778 ✓		83	861				595		595	266
No. 4 Low Car Wheel				399		399 ✓	65	3	337				226		226	111
No. 4 High Car Wheel				459	1	458 ✓		9	467				202	1	201	266
No. 5 Low	29	60	89	674		763 ✓	60	381	1084		48	48	669		717	367
No. 5 High	47	99	146	564		710 ✓	60	367	1137				332		332	805
No. 6	21	61	82	349		431 ✓		163	594				37		37	557
Made by <i>W. J. J.</i>																
Figured by <i>W. J. J.</i>																
Copied by <i>W. J. J.</i>																
Corrected by <i>W. J. J.</i>																
Examined by <i>W. J. J.</i>																
TOTAL.	955	2137 ✓	3092 ✓	34123	23	37192 ✓		12613	49805	5	346	351	29685	23	30013	19792
All Rail Shipment										5	346	351 ✓	11305		11656 ✓	
Lake Shipment													18380	23	18357 ✓	

PIONEER IRON COMPANY.

PIONEER FURNACE No. 2.

SPECIAL IRON

Pig Iron Stock Report for the Week Ending Dec. 31, 1910.

PIG IRON GRADES	PRODUCTION								SHIPMENTS						Balance in Stock	
	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Produced Since Jan. 1st, 1910	Transferred to and from	On Hand Jan. 1st, 1910	Total Produced and in Stock Since Jan. 1st, 1910	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season		Total Since Jan. 1st, 1910
A Scotch	9		9	77		86			86							86
B Scotch				68		68			68							68
C Scotch	27		27	195		222			222							222
No. 1 Low	5		5	378		383			383							383
No. 1 High	28	50	78	714		792			792				74		74	718
No. 2 Low	267	149	416	1218		1634			1634				961		961	673
No. 2 High	201	821	1022	3247		4269	624		4893				2351		2351	2542
No. 3 Low	132	295	427	1642		2069	116		1953				1336		1336	617
No. 3 High	94	284	378	701		1079	28		1107				620		620	487
No. 3 Low Car Wheel				1498		1498	508		990				990		990	
No. 3 High Car Wheel				799		799	28		771				771		771	
No. 4 Low	76	180	256	297		553	85		638				345		345	293
No. 4 High	19	138	157	278		435	258		693				435		435	258
No. 4 Low Car Wheel				340		340	85		255				255		255	
No. 4 High Car Wheel				431	1	430	258		172				173	1	172	
No. 5 Low	29	60	89	542		631			631				305		305	326
No. 5 High	47	99	146	435		581			581				332		332	249
No. 6	21	61	82	316		398			398							398
Made by <u>[Signature]</u> Figured by _____ Copied by _____ Corrected by <u>[Signature]</u> Examined by <u>[Signature]</u>																
TOTAL.	955	2137	3092	13176	1	16267			16267				8948	1	8947	7320
All Rail Shipment													634		634	
Lake Shipment													8314	1	8313	
Reg. Grade				20947	22	20925		12618	33538	5	346	351	20737	22	21066	12472

PIONEER IRON COMPANY.
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending **DECEMBER 31ST,** 191**0.**

Form 110A 9-10-500-8

COMMODITY	PRODUCED AND RECEIVED.							SHIPPED AND USED.								
	TOTAL FOR THE MONTH		Total for Previous Month	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Total on Hand Jan. 1st, 1910	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Balance on Hand		
	By Grades	As Per Cost Sheet							By Grades	As Per Cost Sheet						
ALCOHOL PLANT																
Alcohol made—	Gals. 95 %	22678	22678	250678	41½ ✓	27331 4½	69300	34261 4½	Shipped	Gals. 95 %	4325 ✓	4325	49550 ½	41½ ✓	53634	
	" 97 "	2741 ½	2799	24560	5 ½ ✓	27354		27354		" 97 "	683 ✓	697	3500	5 ✓	4192	
	" 98 "			41		41		41		" 98 "						
	" 89 "	1250	1302	16127 ½		17429 ½		17429 ½		" 99 "						
	" 82 "			42		42		42		" 82 "			42		42	
															530 68	
									Used in	Grade						
									Formaldehyde	95 %	21100 ✓	21100	171290		192390	
									Denaturing	95 "	3870	3870	22045		22915	
									Diamond Spirits	99 "	1150	1198	5739 ½		6937 ½	
									Perfume	"	100	104	2410		2514	
									Soap	"			3695		3695	
									Solvent No. 1	97 "			3058		3058	
									" " 11	95 "			6571		6571	
									" " 12	99 "			3647		3647	
									" " 23	95 "			51		51	
									" " 25	95 "			5		5	
									" " 29	99 "			5		5	
									Methyl Acetone A	95 "			388 ½		388 ½	
									" " AA	97 "	2058 ½	2102	17867		19969	
									" " AAA	97 "			131 ½		131 ½	
									Methyl Acetate	97 "			50 ½		50 ½	
									Special Spt #1	99 "			625		625	
									Denaturing Oil	95 "	200	200	200		200	
Total		26689 ½	26779	291448 ½	46 ½	318181	69300	387481	Total		33486 ½	33596	290616 ½	46 ½	324166	63315
Alcohol Purchased—Gals.	95 %			4027 ½		4027 ½		4027 ½	Used in Denaturing	95 %			4027 ½		4027 ½	
" " "	"								" " "	95 %						
Alcohol Returned—Gals.	95 "			446		446		446	" " "	95 %						
" " "	97 "			1819		1819		1819	" " "	95 %			2265		2265	
				2265												
Total				6292 ½		6292 ½		6292 ½	Total				6292 ½		6292 ½	
								39377 3/4 ✓							330458 1/4 ✓	

109 1/2 gals diff. % grades

109 1/2 gals diff. % grades

*73708
4027
2265
80000*

19969

6937 1/2

2514

3695

3058

6571

3647

51

5

5

388 1/2

17867

131 1/2

50 1/2

625

200

PIONEER IRON COMPANY.
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending **DECEMBER 31** 1910.

Form 110A 9-10-500 S

COMMODITY	PRODUCED AND RECEIVED.							SHIPPED AND USED.						
	TOTAL FOR THE MONTH		Total for Previous Month	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Total on Hand Jan. 1st, 1910	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Balance on Hand
	By Grades	As Per Cost Sheet							By Grades	As Per Cost Sheet				
C. P. ACETONE PLANT														
Acetone—U. S. P. Made Lbs.	139620	139620	1395491	102	1535009	50000	1585009	Shipped U. S. P. Lbs.	173692	173692	1400636	102	1574226	
Acetone—S. P. G. " "			15062		15062		15062	S. P. G. " "			13555		13555	
								Used in Grade						
								Solvent No. 1 U. S. P.			100		100	
								" " 11			8364		8364	
								" " 12 S. P. G.			1507		1507	
								Methyl Acetone A						
								" " AA						
								" " AAA U. S. P.			78		78	
								R. L. A. Oils						
								Superior Spirits						
								Chloroform U. S. P.	525	525	260		785	
Total	139620	139620	1410558	102	1550071	50000	1600071	Total	174217	174217	1424500	102	1598615	1456
Acetone—U. S. P. Returned Lbs.	4178	4178	92677		96855		96855	Shipped U. S. P. Lbs.	4178	4178	92677		96855	
Acetone—S. P. G. " "								" S. P. G. " "						
								Used in						
Total								Total						
GRAY ACETATE OF LIME PLANT														
Made Lbs.	490700	490700	5980970		6471670	171502	6643172	Shipped Lbs.						
								Used in						
								Acetone	490700	490700	6087096		657796	
								Acetic Acid			62636		62636	
								Methyl Acetate			1000		1000	
								Acetone AAA			190		190	
								Solvent No. 1			1550		1550	
Total							6643172	Total	490700	490700	6152472		6643172	
Gray Acetate of Lime Purchased Lbs.	357486	357486	3761149		4118635		4118635	Used in Lbs.						
Gray Acetate of Lime Returned " "								Acetone	302700	302700	2000014		2302714	
								Acetic Acid	191322	191322	952129		1143451	
Total							4118635	Total	494022	494022	2952143		3446165	672470

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending **DECEMBER 31,** 191 **0**

Form 110-A, 9-10-500, S

COMMODITY	PRODUCED AND RECEIVED.						SHIPPED AND USED.								
	TOTAL FOR THE MONTH		Total for Previous Month	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Total on Hand Jan. 1st, 1910	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns, Shortages for the Year	Total from Jan. 1st, 1910	Balance on Hand	
	By Grades	As Per Cost Sheet							By Grades	As Per Cost Sheet					
GLACIAL ACETIC ACID PLANT	135,144	103748	558201	820 1/2	656128 1/2	656128 1/2	Shipped								
							Glacial	99 per ct.			81195		81195		
								99 1/2 "			61974	99 1/2 ✓	61874 1/2		
								"							
								"							
								"							
								"							
								Redistilled	99 per ct.		792			792	
									80 "	4365 ✓	3492	8000	37 ✓	11492	
									70 "		39410	480 ✓	39373		
									60 "		40320	60 ✓	39840		
									56 "		59753	144 ✓	59693		
									28 "		3112		2968		
									"						
								Crude	75 per ct.	118780 ✓	89085	120024		209109	
								70 "	2165 ✓	1516	23520		25036		
								60 "	438 ✓	263			263		
								56 "	9 ✓	5			5		
									125757	94361	438100	820 1/2	581640 1/2	124488	

*31,396#
Diff. of grades*

*31,396#
Diff. of grades*

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

Pioneer Iron Company

Furnace Department.

STOCK ACCOUNTS, 1910

	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
Supplies:-			
Furnace			15686.43
Chemical			8526.72
Laboratory			319.89
Stock of Coal			<u>14852.32</u>
Total			39385.36 ✓
Materials:-			
<u>O r e s:-</u>	<u>Tons</u>		
L a k e	461 ✓	3.481	1604.74
Cambridge	18 ✓	3.524	63.43
Clinton Silica	319 ✓	1.532	488.71
Section 16 Hematite (Carp)	407	1.981	806.30
L a k e	288	2.949	849.31
Maas	335	2.977	997.30
Lake Silica	366	1.465	536.21
Austin No. 3	<u>154</u>	2.893	<u>445.52</u>
Total	2348		5791.52 ✓
W o o d:-			
	<u>Cords</u>		
On yard	1409	3.362	4737.06
In kilns	<u>5772</u>	2.990	<u>17258.28</u>
	7181	^{.372}	21995.34 ✓
Limestone	(tons) 1203 ✓	1.328	1597.58
"	(Carp) " 263	1.152	303.00
Stock of Sulphuryl Chloride			1941.50
Stock of Acetate	(Lbs) 672470 ✓	1.626	10933.73
Stock of Pyrites	(Tons) 1876-0178 ✓	7.022	13175.18
Total materials			55737.85 ✓
Total Material & Supplies			95123.21 ✓
Equipment:-			
No. 2 Furnace			25515.82
Carp Furnace			253.05
Total Equipment			25768.87 ✓
Grand Total			120892.08 ✓

BALANCE SHEET REFERENCE

A9	25768.87
C1	<u>95123.21</u>
Total	120892.08

*Copies by CWH
Accountant
Exam. HGG
D.M.*

Made by: *HGG*

Figured by: *HGG*

Pioneer Iron Company

Furnace Department.

SIDE LEDGER TRIAL BALANCE DECEMBER 31st., 1910

Pioneer Iron Company

GENERAL EXPENSE:		19338.21
Taxes	5598.88	
Analysis	2516.64	
Central Office Expense	11222.69	

MAINTENANCE:-		13520.69
Tracks & Yard	2053.37	
Trestles & Docks	669.38	
Buildings	1416.63	
Machinery	320.99	
Tuyeres	801.74	
Relinings & Renewals	3721.50	
Pig Iron Trucks, Coal & Ore Buggies	859.87	
S t a c k	711.35	
S t o v e s	174.98	
Cleaning Up	1807.12	
Dry Blast	541.64	
Sewer	442.12	

OPERATING		609720.15
------------------	--	------------------

Machinery	3655.30
Electric Lamps & Wiring	540.76
Bottom Fillers	4812.97
Top Fillers	1500.78
Handling Iron	6101.55
Handling Cinders	6086.65
Weighing & Grading Iron	711.75
Founders, Keepers & Helpers	11873.67
Coal Forkers	9551.40
Casting Tools	1237.86
Sand & Clay	2616.24
Central Power Expense	2043.29
Cleaning Stoves	851.81
Dry Blast	3480.23
O r e	248116.13
Charcoal	252583.84
Limestone	3610.40
Depreciation of Improvement	2100.00
Depreciation of Construction Acct.	35115.00
Depreciation of Equipment Account	1267.30
Appreciation of Inventory	66.67
Fire Loss at Camps	1999.08
Freight Allowance	130.25
Loading Cars	849.66
Switching	146.25
Loading Vessels	8804.65

Pioneer Iron Company

Furnace Department.

SIDE LEDGER TRIAL BALANCE DECEMBER 31st, 1910.

ALCOHOL GENERAL EXPENSE:		16775.38
Insurance	5199.96	
Taxes	5598.88	
Analysis	1478.32	
Central Office Expense	4317.97	
Personal Injury Expense	180.25	

<u>ALCOHOL MAINTENANCE</u>		7306.64
-----------------------------------	--	----------------

Tanks & Stills	5130.48
Condensers	93.80
Machinery	308.95
Fans & Motors	127.22
Smoke Mains	450.45
Buildings	439.54
Ditch	41.41
Cleaning Up	357.61
Sewer	357.18

<u>ALCOHOL OPERATING</u>		82768.23
---------------------------------	--	-----------------

Superintendent	604.07
Stillmen	9389.41
Condensermen	1140.90
Filter	3464.61
Machinery	139.22
Expense on Returned Goods	72.17
Central Power Expense	16551.70
Electric Lamps & Wiring	511.78
Chemicals	2273.46
Depreciation of Construction	43380.00
Depreciation of Improvement	3335.22
Appreciation of Inventory	54.33
Packages	1781.33
Loading	172.50
Switching	6.19

Pioneer Iron Company

Furnace Department.

SIDE LEDGER TRIAL BALANCE DECEMBER 31st., 1910

<u>ACETATE GENERAL EXPENSE</u>		5512.17
Analysis	1233.22	
Central Office Expense	3612.42	
Taxes	666.53	
<u>ACETATE MAINTENANCE</u>		1563.54
Buildings	111.49	
T a n k s	62.76	
Conveyor	93.14	
Dry Floor	218.96	
Piping	194.10	
Cleaning Up	317.15	
P a n s	120.44	
Machinery	187.11	
Smoke Mains	20.99	
Lillie Apparatus	233.50	
Fans & Motors	3.90	
<u>ACETATE OPERATING</u>		62036.16
Contractors	8440.07	
Machinery	148.42	
Coal for Drying	2661.92	
Handling Fuel	426.87	
Electric Lamps & Wiring	163.96	
Lime	10127.00	
Storing	96.20	
Superintendent	501.30	
Weighing	844.05	
Condensermen	972.95	
Central Power Expense	31267.14	
Appreciation of Inventory	49.23	
Depreciation of Construction Acct	3617.52	
Depreciation of Improvement Account	2629.32	
Sacks	198.67	

Pioneer Iron Company

Furnace Department.

Pioneer Iron Company
Furnace Department

SIDE LEDGER TRIAL BALANCE
DECEMBER 31st., 1910

SIDE LEDGER TRIAL BALANCE
DECEMBER 31st., 1910

FORMALDEHYDE GENERAL EXPENSE

Analysis	277.90
Central Office Expense	799.76
Taxes	533.20

1610.86

FORMALDEHYDE MAINTENANCE:

Buildings	113.69
Tanks	872.26
Machinery	73.13
Cleaning Up	302.29

1361.37

FORMALDEHYDE OPERATING

95544.60

Stillmen	2369.82
Machinery	42.09
Electric Lamps & Wiring	50.91
Copper Netting	625.60
Superintendent	102.58
Central Power Expense	2080.60
Alcohol	77454.98
Appreciation of Inventory	9.74
Depreciation of Construction Acct.	2820.00
Depreciation of Improvement	2380.32
Packages	7055.76
Loading	556.88
Switching	14.80

Pioneer Iron Company

Furnace Department.

SIDE LEDGER TRIAL BALANCE DECEMBER 31st., 1910

<u>ACETONE GENERAL EXPENSE</u>		4366.39
Personal Injury Exp.	80.00	
Analysis	981.99	
Central Office Expense	2904.49	
Taxes	399.91	
<u>ACETONE MAINTENANCE:</u>		3460.91
Buildings	140.68	
Tanks	372.31	
Ovens & Kettles	1232.00	
Retorts	735.45	
Piping	29.59	
Retort Pans & Cars	279.56	
Tracks	18.64	
Machinery	347.07	
Cleaning Up	305.61	
<u>ACETONE OPERATING</u>		170821.98
Freight on Returned Acetone	2.76	
Machinery	221.25	
Central Power Expense	1705.23	
Firemen	9610.52	
Coal	6936.60	
Handling Fuel	1255.28	
Electric Lamps & Wiring	188.05	
Ovens & Kettles	37.40	
Removing Refuse	1441.04	
Superintendent	392.05	
Chemicals	800.45	
Acetate	136614.27	
Acetone Oils Recovered	1095.99	
Appreciation of Inventory	34.87	
Depreciation of Improvement	4661.64	
Packages	7281.30	
Loading	879.49	
Switching	25.51	