

581 - 1161

Misc Data File
AGENTS' ANNUAL REPORTS AND
STATISTICS
YEAR ENDING DEC. 31, 1911
Free Land Dept

MS 86-100
2097

#2097

185

AGENTS ANNUAL REPORTS AND STATISTICS
FOR YEAR ENDING DEC. 31, 1911.

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THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT

MISCELLANEOUS DATA 1911.

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DETAIL OF STOCK USED

Ores	1911							1910						
	Tons-Lbs.	Price	Amount	Amount	Cost Per Ton	Per Cent Used	Tons-Lbs.	Price	Amount	Cost Per Ton	Per Cent Used			
L a k e	15980-2000	3 558		56879	66	3 443	531	35255-0390	3 482	122755	93	3 500	495	
Cliffs Shaft	2370-1380	4 552		10790	98	653	079	4892-1520	4 385	21454	77	612	069	
Lake Silica	400-0686	1 712	1149 86	280	72	017	005	99-0000	1 718	170	09	005	001	
Overrun, Lake Silica	236-0686	1.712	869 14											
Lucy	1308-1940	2 165		2833	47	172	044	1125-1860	2 191	2466	18	070	015	
Maas	1305-0725		4875 27	0	00		000	28477-1210	3 553	101109	04	2 882	400	
Overrun in Maas ore	1305-0725		4875 27											
Negaunee	10265-2220	3 568		36638	60	2 220	341	0-0000						
South Jackson	0-0000							179-0000	1 530	273	87	008	003	
Clinton Silica	0-0000							1248-0230	1 716	2141	09	060	017	
Brands for Thawing ore				220	00	013				545	94	016		
Credit account adjustment of prices				1379	33	084				1248	24	036		
Debit a/c Bonus on ores				748	20	045				936	66	027		
Credit account ore analysis				166	50					1248	24	036		
Total	30090-0820	3 551		106845	80	6 469	100	71277-0730	3 515	250605	33	7 144	100	
Limestone	688-0000	974		670	52	041		1914-0160	979	1874	27	053		
Charcoal (Bushels)	1503660	0887		133347	77	8 073		3210280	0825	264996	71	7 554		

Remarks:- Overrun in ores-

1911:- Maas ore: From August, 1909 to January 31st., 1911

Lake Silica " October, 1907 to November, 1911.

1910:- Maas Ore From August, 1909 to December 31st., 1910.

ANNUAL COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1911 AND 1910

Production for the Year 1911	16517 Tons	Daily Average	78.3	Days Operated	211	Days Idle	154
Production for the Year 1910	35079 Tons	Daily Average	100.9 Tons	Days Operated	347 1/2	Days Idle	17 1/2

Acct. No.	Blast No. 3 Tons made this Blast 93727	Year 1911				Year 1910					
		Labor	Supplies	Total	Cost per Ton	Labor	Supplies	Total	Cost per Ton		
GENERAL EXPENSES:-											
	Taxes		3163 87	3163 87	192		3037 45	3037 45	087		
	Insurance										
	Analysis	576 00	409 34	985 34	058	964 81	833 92	1798 73	051		
x	Central Office Expense	129%	1910 252%	3613 12	2160 31	5973 43	363	7084 86	3627 29	10712 15	305
	Personal Injury Expense							350 00	350 00	010	
	Total			4369 12	5733 52	10122 64	613	8049 67	7848 66	15898 33	453
MAINTENANCE:-											
	Tracks & Yards	609 88	459 76	1069 64	065	1181 55	1113 70	2295 25	065		
	Trestles and Docks	954 09	896 00	1850 09	112	1103 65	3967 68	5071 33	145		
	Buildings	290 34	61 57	351 91	021	775 51	708 48	1483 99	042		
	Machinery	25 94	357 89	383 83	023	232 09	143 42	375 51	011		
	Tuyeres	24 80	20 90	45 70	003	146 10	347 11	493 21	014		
	Relinings & Renewals		1655 10	1655 10	100		3520 10	3520 10	100		
	Pig Iron Trucks, Coal And Ore Buggies	342 18	104 75	446 93	027	1014 68	329 97	1344 65	038		
	Stack	77 95	122 04	199 99	012	623 05	238 63	861 68	025		
	Stoves	366 87	98 33	465 20	028	492 38	302 91	795 29	023		
	Cleaning Up	713 11	25 49	738 60	045	563 16	79 26	642 42	018		
	Sewer	27 33	12 15	39 48	002						
	Total	3432 49	3513 98	7246 47	438	6132 17	10751 26	16883 43	481		
OPERATING:-											
	Machinery	1208 60	283 43	1492 03	091	2044 70	706 61	2751 31	078		
	Electric Lamps & Wiring	31 60	134 53	166 13	010	208 65	377 81	586 46	018		
	Bottom Fillers	5102 61	255 97	5358 58	324	10815 60	699 98	11515 58	328		
	Top Fillers	1711 18	1 38	1712 56	104	2861 42	4 25	2865 67	082		
	Handling Iron	2606 56	9 13	2615 69	158	6336 77	10 37	6347 14	180		
	Handling Cinder	1576 20	1112 40	2688 60	163	2750 89	2144 03	4894 92	140		
	Weighing And Grading Iron	432 00		432 00	026	720 00		720 00	021		
	Founders, Keepers & Helpers	5964 99	7 04	5972 03	362	10483 57	29 90	10513 47	300		
	Coal Forkers	5242 06	80 37	5322 43	322	8803 16	111 05	8914 21	254		
	Casting Tools	178 01	96 36	274 37	016	307 59	177 41	485 00	014		
	Sand and Clay	527 35	204 76	732 11	044	1306 24	477 64	1783 88	050		
x	Central Power Expense	1122 52	865 70	1988 22	121	1753 58	682 28	2435 86	070		
	Fire Loss at Camps		1531 20	1531 20	093		69 62	69 62	002		
	Cleaning Stoves	12 85		12 85	001	178 08	9 72	187 80	005		
	Total	25716 53	4582 27	30298 80	1835	48570 25	5500 67	54070 92	1542		
STOCK USED:-											
	Orre	36 45	106809 35	106845 80	6 469	93 51	250511 82	250605 33	7 144		
	Charcoal		133347 77	133347 77	8 073		264996 71	264996 71	7 554		
	Limestone		670 52	670 52	041		1874 27	1874 27	053		
	Total	36 45	240827 64	240864 09	14.583	93 51	517382 80	517476 31	14 751		
	Cost of Production	33574 59	254957 41	288532 00	17.469	62845 60	541483 39	604328 99	17 227		
DEPRECIATION:-											
	Plant Account										
	New Construction		1803 78	1803 78	109						
	Appreciation of Inventory		509	509			218 94	218 94	006		
	Total		1294 78	1294 78	078		218 94	218 94	006		
	<i>Selling Expense</i>										
	Total Cost on Yard	33574 59	256252 19	289826 78	17.547	62845 60	541264 45	604110 05	17 221		
SHIPPING EXPENSE:-											
	1911	1910	Idle Exp.								
	11843 11	12307 34	24150 45	1.462							
	Loading Cars	6300	8013 Tons	1 71	478 95	480 66	.076	53 03	572 98	626 01	078
	Switching	"	"	130 07	79 34	209 41	.033	72 35	41 56	113 91	014
	Total Loading Cars			131 78	558 29	690 07	.042	125 38	614 54	739 92	021
	Loading Vessels	5506	12437 Tons	287 73	724 95	1012 68	.061	285 86	1673 06	1958 92	056
	Grand Total			45837 21	269842 77	315679 98	19.112	63256 84	543552 05	606808 89	17 298
SUMMARY OF COST PER TON											
	On Yard	On Cars	On Vessel	Yield	On Yard	On Cars	On Vessel	Yield			
	17 454	17 454	17 454	52.2	17 221	17 221	17 221	49.2 Ore			
		109	181	91.0		092		158 91.2 Coal			
	Total	17 454	17 563	17 635	87	17 221	17 313	17 379	132 Fluor		
	Commission and Expenses Cleveland Office	350	350	350		350	350	350			
	Total Cost	17 804	17 913	17 985		17 571	17 663	17 729			
	Cost per ton for Labor				2.775				1.803		
	Plant Account not Charged off										
	New Construction not Charged off										

Remarks:- x See detailed statements covering these accounts.

Detail of Cost per ton for Shipping Expense is based on actual tonnage handled, total on tonnage produced.

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 Examined by _____

THE CLEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

WOOD AND CHARCOAL COST SHEET.

MONTH OF 191.....
..... 12 MONTHS, 191.....
..... 12 MONTHS, 1910.....

Incl. No.	CORDWOOD	MONTH OF 191.....		 12 MONTHS, 191.....		 12 MONTHS, 1910.....		
		Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord
	Wood Received at Furnace				35044					
	From Lumbering Dept.					87006 18	2 484			
	From other Sources									
	Freight					11389 00	325			
	Measuring					375 00	010			
	Switching					1816 42	051			
	TOTAL					100586 60	2 870			
	Distribution									
	To Kilns				24435 1/2	69840 14	2 870			
	To Retorts				8513	24620 48	2 870			
	To Retort Yard									
	To Yard				2095 1/2	6125 98	2 870			
	TOTAL				35044	100586 60	2 870			
	Wood on Yard									
	Wood Received				2095 1/2	6125 98	2 925			
	Unloading and Piling					244 65	117			
	TOTAL					6370 66	3 040			
	CHARCOAL									
	Kilns Fired					408		Kilns Fired		791
	Kilns Drawn					400		Kilns Drawn		794
	Kilns Idle					00		Kilns Idle		00
		Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.
	Kilns:				1269733			2275780		
	Wood from Cars				79507 04	0626		141359 44	0622	
	Wood from Yard				2501 78	0020				
	Loading and Sw'g in Yard				368 23	0003		2280 23	0010	
	Packing				5889 97	0046		12664 55	0055	
	Collars				2409 76	0019		3925 41	0018	
	Whitewashing				610 31	0005		2673 07	0007	
	Cleaning and Screening				805 80	0006		1389 58	0006	
	Braize Cartmen				698 26	0005		1092 28	0009	
	Repairs				4014 67	0032		3735 56	0016	
	Depreciation				3174 34	0025		5689 45	0025	
	TOTAL COST				99980 16	0787		173679 57	0764	
	Cords Carbonized					28746 1/2			50529	
	Yield per Cord					44.2			45.0	
	Yield per Kiln in Battery					2592			2710	
	Cords per Kiln in Battery					58.7			60	
	Retorts:				383640			705120		
	Wood				24620 48	0642		42137 58	0597	
	Foreman				825 00	0022		900 00	0013	
	Loading and Drawing				2925 27	0078		5052 15	0076	
	Splitting Wood				1663 22	0043		2819 82	0040	
	Firing				1731 68	0045		2966 24	0042	
	Repairing				4437 70	0116		2753 29	0039	
	Handling Fuel				700 19	0018				
	Fuel				1907 66	0296		13301 52	0189	
	Depreciation							6189 43	0088	
	TOTAL COST				44881 20	1170		76120 03	1080	
	Cords Carbonized					8513			15090	
	Yield per Cord					45.1			46.7	
	Pounds Coal per Cord					701			583	
	From Outside Sources:				1155			240457		
	Coal					57 75	0500		13085 25	0544
	Freight					10 40	0090		2039 00	0085
	Switching					61 00	0005		64 98	0003
	Repairing Cars					87 40	0757		713 53	0030
	Insurance on Cars								41 28	0001
	TOTAL COST				156 16	1352		15944 04	0663	
	Coal									
	Freight									
	Switching									
	Repairs Cars									
	Insurance on Cars									
	TOTAL COST									
	GRAND TOTAL				1654528	145017 58	0876	3221357	265943 64	0826

Remarks:

Plant Account not charged off \$1016.03
New Construction not charged off

Coal used at Retorts 12 mos. 519 tons @ 1690.55 @ 3.257 ✓
12 " 2466 " @ 85613.53 @ 2.276 ✓
12 " 198 cords @ 603.58 @ 3.047

Wood Used at Retorts

The average daily Wood supply should be
The average daily Wood supply was

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Corrected by _____
Examined by _____

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

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Plant No. 1

ANNUAL COMPARATIVE STATEMENT OF ALCOHOL COST SHEETS FOR 1911 AND 1910

112140

Production for the Year 1911	106939 3/4 Gallons	Daily Average	514 Gallons	Days Operated	208	Days Idle	157
Production for the Year 1910	193406 3/4 Gallons	Daily Average	556 Gallons	Days Operated	348	Days Idle	17

Acct. No.	Year 1911				Year 1910						
	Labor	Supplies	Total	Cost per Gallon	Labor	Supplies	Total	Cost per Gallon			
GENERAL EXPENSE:-											
Insurance		984 37	984 37	009		1575 00	1575 00	008			
Taxes		1936 70	1936 70	018		1786 73	1786 73	009			
Analysis	248 41	75 60	324 01	003	462 19	64 00	526 19	003			
Central Office Expense	028%	843 59	466 39	1309 98	012	1380 58	806 72	2187 30	011		
Personal Injury Expense	049%										
Total	1092 00	3463 06	4555 06	042	1842 77	4232 45	6075 22	031			
MAINTENANCE:-											
Buildings	17 37	18 74	36 61	000	11 02	5 56	16 58	000			
Tanks and Stills	672 55	423 61	1096 16	010	801 76	743 89	1545 65	008			
Condensers	220 58	619 83	840 41	008	159 65	615 88	775 53	004			
Machinery	143 87	148 53	292 40	003	60 04	23 70	83 74	000			
Smoke Mains	63 95	47 09	111 04	001	100 25	12 29	112 54	001			
Sewer	27 60		27 60	000	12 27	11	12 38	000			
Tracks & Yards	46 11	98 78	144 89	002							
Cleaning Up					11 50		11 50	000			
Fans and Motors					30 41	460 70	491 11	003			
Total	1192 53	1356 58	2549 11	024	1186 90	1862 13	3049 03	016			
OPERATING:-											
Superintendent	311 18		311 18	003	325 60		325 60	002			
Stillmen	2999 11	8 89	3008 00	028	5107 91	284 42	5392 33	028			
Condensermen	423 79		423 79	004	732 87	16 65	749 52	004			
Machinery		45 06	45 06	000		67 41	67 41	000			
Electric Lamps & Wiring	97	38 63	39 60	000	19 54	74 36	93 90	000			
No. 1 Chemical Power Expense	322%	1567 36	6400 19	7967 55	075	2716 74	11350 10	14066 84	073		
Chemicals	29	593 82	594 11	006	2 53	1550 15	1552 68	008			
Total	5302 70	7086 59	12389 29	116	8905 19	13343 09	22248 28	115			
Cost of Production	7587 23	11906 23	19493 46	182	11934 86	19437 67	31372 53	162			
DEPRECIATION:-											
Plant Account		12992 73	12992 73	122							
New Construction						25340 77	25340 77	131			
Improvement						105 35	105 35	000			
Appreciation of Inventory		103 65	103 65	001							
Total		12889 08	12889 08	121		25235 42	25235 42	131			
Total Cost	7587 23	24795 31	32382 54	303	11934 86	44673 09	56607 95	293			
SHIPPING EXPENSE:-											
Packages	73250	155940	Gallons	120 44	1328 71	1449 15	020	250 20	3600 64	3850 84	025
Loading	"	"	"	47 37	1 15	49 02	001	83 66	67 83	151 49	001
Switching	"	"	"	8 37	8 10	16 47	000	9 51	5 65	15 16	000
Total	176 68	1337 96	1514 64	014	343 37	3674 12	4017 49	021			
Idle Expense	1370 42	10323 91	11694 33	109							
Total Cost on Cars	9134 33	36457 18	45591 51	426	12278 23	48347 21	60625 44	314			
Plant Account not charged Off			12946 48								
New Construction not charged off			16440 84								
Improvement not charged off							33781 90				
Smoke received from 24236 Ods., 1911											
Smoke received from 49743 " 1910											
Yield per Cord of Wood					41			389			
Average cost per Gallon, Plants No. 1 & 2					377			345			

Remarks:-

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THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

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ANNUAL COMPARATIVE STATEMENT OF ALCOHOL COST SHEETS FOR 1911 AND 1910

Production for the Year 1911 69035 1/2 Gallons Daily Average 340 Gallons Days Operated 203 Days Idle 162
 Production for the Year 1910 119146 Gallons Daily Average 341 Gallons Days Operated 350 Days Idle 15

Acct. No.	Year 1911				Year 1910			
	Labor	Supplies	Total	Cost per Gallon	Labor	Supplies	Total	Cost per Gallon
GENERAL EXPENSE:-								
Insurance		1350 00	1350 00	020		2250 00	2250 00	019
Taxes		620 37	620 37	009		595 58	595 58	005
Analysis		131 22	167 61	002	252 89	36 64	289 53	002
Central Office Expense	1911 015%	445 04	695 27	010	763 13	424 27	1187 40	010
Personal Injury Expense	1910 027%							
Total		576 26	2256 99	041	1016 02	3306 49	4322 51	036
MAINTENANCE:-								
Buildings		78 86	108 56	002	70 72	15 74	86 46	001
Tanks & Stills		226 18	1215 51	017	484 03	502 15	986 18	008
Condensers		32 01	61 62	001	118 54	784 05	902 59	008
Machinery		53 82	57 80	001	5 02	45	5 47	000
Smoke Mains								
Sewer		26 91	26 91	000	88 16	95	89 11	001
Tracks & Yards								
Cleaning Up					18 20		18 20	000
Total		417 78	1052 62	021	784 67	1303 34	2088 01	018
OPERATING:-								
Superintendent		133 58	133 58	002	179 98	4 74	184 72	002
Stillmen		1788 72	1815 52	026	2811 64	112 08	2923 72	024
Condensermen								
Machinery								
Electric Lamps & Wiring	1911	4 25	24 08	000	1 47	50 39	51 86	001
No. 2 Chemical Power Expense	352%	1197 74	6181 32	090	1853 35	7838 15	9691 50	081
Chemicals	1910		113 01	002	16	594 59	594 75	005
Total		3124 29	8267 51	120	4846 60	8599 95	13446 55	113
Cost of Production		4118 33	8452 83	182	6647 29	13209 78	19857 07	167
DEPRECIATION:-								
Plant Account			2937 40	043				
New Construction						6516 48	6516 48	054
Improvement						61 95	61 95	000
Appreciation of Inventory			50 27	001				
Total			2887 13	042		6454 53	6454 53	054
Total Cost		4118 33	11339 96	224	6647 29	19664 31	26311 60	221
SHIPPING EXPENSE:-								
1910 Idle Exp.		174 69	3263 54	050				
Packages	1911 6533 1/2	120577 Gallons	107 08	028	213 72	3433 54	3647 26	030
Loading	"	"	31 99	001	69 77	4 07	73 84	001
Switching	"	"	4 82	000	6 79	3 83	10 62	000
Total			143 89	027	290 28	3441 44	3731 72	031
Total cost on cars			4436 91	301	6937 57	23105 75	30043 32	252
Plant Account not charged off								
New Construction not charged off								
Improvement not charged off							7300 40	
Smoke received from 8513 Ods., 1911								
Smoke received from 15090 " 1910								
Yield of Alcohol per cord of wood					811			790
Average cost per gallon, Plants No. 1 & 2					377			345

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THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

Plant No. 1 ANNUAL COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1911 AND 1910

112140

Production for the Year 1911 2108333 Daily Average 10138 Days Operated 208 Days Idle 157
 Production for the Year 1910 4040006 Pounds Daily Average 11641 Days Operated 347 Days Idle 18

Acct. No.	Year 1911				Year 1910						
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.			
GENERAL EXPENSE:-											
Insurance		1 29	1 29	000		1 92	1 92	000			
Taxes		258 23	258 23	012		238 23	238 23	005			
Analysis		238 14	63 21	301 35	489 88	56 55	546 43	014			
Central Office Expense	1911 027%	815 92	437 39	1253 31	1478 31	816 61	2294 92	057			
Personal Injury Expense	1910 053%										
	Total	1054 06	760 12	1814 18	086	1968 19	1113 31	3081 50	076		
MAINTENANCE:-											
Buildings		4 50	2 55	7 05	000	44 07	246 60	290 67	007		
Tanks & Pans		62 49	11 74	74 23	004						
Machinery		2 39	06	2 45	000	37 43	37 43	001			
Dry Floor		35 70	28	35 98	002						
Tracks & Yards											
Cleaning Up					19 99		19 99	001			
Piping					70 51	26 41	96 92	002			
	Total	105 08	14 63	119 71	006	134 57	310 44	445 01	011		
OPERATING:-											
Superintendent		243 11		243 11	012	347 29	347 29	009			
Contractors		2470 58	75	2471 33	117	4870 31	13 06	4883 37	121		
Condensermen		423 79		423 79	020	732 86		732 86	018		
Machinery						18	18	000			
Electric Lamps and Wiring	1911	2 47	9 92	12 39	000	6 29	27 48	33 77	001		
No. 1 Chemical Power Expense	1910 652%	3134 12	12797 96	15932 08	756	5400 98	22561 42	27962 40	692		
Handling Fuel		26 44	9 75	36 19	002	37 60	3 15	40 75	001		
Fuel			1185 54	1185 54	056		2108 94	2108 94	052		
Lime		4 87	2582 02	2586 89	123		4618 83	4618 83	114		
Storing		38 70		38 70	002	25 38		25 38	001		
	Total	6344 08	16585 94	22930 02	1 088	31420 71	29333 06	40753 77	1 009		
	Cost of Production	7503 22	17360 69	24863 91	1 180	13523 47	30756 81	44280 28	1 096		
DEPRECIATION:-											
Plant Account			1553 47	1553 47	074						
New Construction							3110 46	3110 46	077		
Improvement							108 15	108 15	002		
Appreciation of Inventory			68 34	68 34	004						
	Total		1485 13	1485 13	070		3002 31	3002 31	075		
	Total Cost	7503 22	18845 82	26349 04	1 250	13523 47	33759 12	47282 59	1 171		
SHIPPING EXPENSE:-											
Sacks	1911 2108333	1910 4040006	Lbs.	10 50	1315 93	1326 43	041	90	2483 43	2484 33	062
Loading	3254010	2535326	"	232 08		232 08	007	213 30		213 30	008
Switching	"	"	"	36 45	30 11	66 56	002	12 73	7 35	20 08	001
	Total			279 03	1346 04	1625 07	077	226 93	2490 78	2717 71	067
	Idle Expense			322 17	1205 10	1527 27	073				
	Total Cost on Cars			8104 42	21396 96	29501 38	1 400	13750 40	36249 90	50000 30	1 238
Plant Account Not charged off						1727 46					
New Construction not charged off						9462 20					
Improvement Not charged off						4213 02					
Yield per Cord of Wood						812					812
Smoke received from	24236 Cds., 1911										
Smoke received from	49743 " 1910										

Remarks:-

✓ 1911
Coal Used 361 tons @ 3.284

✓ 1910
675 tons @ 3.123

Made by RHS
 Figured by Fa
 Copied by Fa
 Corrected by Fa
 Examined by Fa

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

6

PLANT NO. 2. ANNUAL COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1911 AND 1910.

Production for the Year 1911	1304303	Daily Average	6424	Days Operated	203	Days Idle	162
Production for the Year 1910	2364763 Pounds	Daily Average	6776	Days Operated	349	Days Idle	16

Acct. No.	Year 1911				Year 1910						
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.			
GENERAL EXPENSE:-											
Insurance											
Taxes		62 03	62 03	✓ 005		59 56	59 56	002			
Analysis	148 33	40 20	188 53	✓ 015	276 23	33 61	309 84	013			
Central Office	510 12	277 44	787 56	✓ 060	843 23	470 66	1313 89	056			
Personal Injury Expense											
		Total	658 45		379 67	1038 12	080	1119 46	563 83	1683 29	071
MAINTENANCE:-											
Buildings		14	14	000	4 59	51	5 10	000			
Tanks and Pans	107 68	57 95	165 63	013	66 68	9 10	75 78	003			
Machinery	2 42		2 42	000							
Dry Floor	1 70		1 70	000							
Tracks and Yards											
Cleaning Up					7 39		7 39	000			
Piping					4 59	3 85	8 44	001			
		Total	111 80		58 09	169 89	013	83 25	13 46	96 71	004
OPERATING:-											
Contractors	1456 70		1456 70	112 ✓	2878 57	2 14	2880 71	122			
Superintendent	152 13		152 13	012 ✓	197 13		197 13	008			
Condensermen											
Machinery	2 43	42	2 85	000 ✓							
Electric Lamps & Wiring	1 93	6 11	8 04	000 ✓	2 47	18 06	20 53	001			
No. 1 Chemical Power Expense	2205 03	9174 57	11379 60	✓ 873 ✓	3411 61	14430 47	17842 08	754			
Handling Fuel											
Fuel											
Lime	3 40	1625 60	1629 00	125 ✓		2642 00	2642 00	112			
Storing	29 70		29 70	002 ✓	18 00		18 00	001			
		Total	3851 32	✓ 10806 70 ✓	14638 021 124 ✓	6507 78	17092 67	23600 45	998		
		Cost of Production	4621 57		11244 46	15866 031 217	7710 49	17669 96	25380 45	1 073	
DEPRECIATION:-											
Plant Account			581 04	581 04	045						
New Construction							968 40	968 40	041		
Improvement							74 55	74 55	003		
Appreciation of Inventory			46 35	46 35	004		893 85	893 85	038		
		Total	534 69	534 69	041		893 85	893 85	038		
		Total Cost	4621 57	11779 15	16400 72	1.258	7710 49	18563 81	26274 30	1 111	
SHIPPING EXPENSE:-											
Sacks	1304303 Lbs.	2364763 Lbs.	763 34	763 34	059		1445 48	1445 48	061		
Loading	1379320	2784031 "	94 19	94 19	007	187 28		187 28	008		
Switching	"	" "	11 78	8 97	002	11 44	6 52	17 96	001		
		Total	105 97	772 31	878 28	067	198 72	1452 00	1650 72	070	
		Idle Expense	204 70	496 82	701 52	✓ 054					
		Total cost on Cars	4932 24	13048 28	17980 521 379		7909 21	20015 81	27925 02	1 181	
Plant Account not charged off				949 05							
New Construction not charged off											
Improvement Account not charged off								1917 45			
Yield per Cord					153 ²				156 ²		
Smoke received from	8513 Cds., 1911										
Smoke received from	15090 Cds., 1910										

Remarks:-

Made by P.M.
 Figured by Fa
 Copied by M.S.
 Corrected by M.S.
 Examined by M.S.

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF SPECIAL CHEMICAL PRODUCTS FOR 1911-1910

Production for the Year..... Daily Average..... Days Operated..... Days Idle.....
 Production for the Year..... Daily Average..... Days Operated..... Days Idle.....

Acct. No.	Gallons	Year...1911..				Year...1910..			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
PRODUCED & SHIPPED:-		1911	1910						
	Denaturing Alcohol	26363							
	Diamond Spirits	1276	1974½						
	Special Spirits No. 1	2500	2000						
	Special Solvent No. 8	9540	3811						
	Special Solvent No. 1	8522							
	Special Solvent No. 12		41359						
	Special Solvent No. 33	105							
	Methyl Acetone A	99	154½						
	Methyl Acetone AA	3450	8999						
	Methyl Acetone AAA	50							
	Special Solvent No. 24		51						
	Methyl Acetate	106½							
GENERAL EXPENSE:-		1911							
	Central Office Expense	.004		105 56	55 92	161 48	68 91	272 21	341 12
	Analysis			50 72	27 68	58 40	22 48	90 18	112 66
	Total			136 28	83 60	219 88	91 39	362 39	453 78
MAINTENANCE:-									
	Piping							44 18	44 18
OPERATING:-									
	Chemist			540 00		540 00	450 00		450 00
	No. 1 Chemical Power Expense			16 91	72 48	89 39	57 93	246 51	304 44
	Alcohol				21174 19	21174 19		23715 66	23715 66
	C. P. Acetone							1505 24	1505 24
	Chemicals				815 21	815 21		85 20	85 20
	Rectifying Alcohol							73 11	73 11
	Total			556 91	22061 88	22618 79	507 93	25625 72	26133 65
SHIPPING EXPENSE:-									
	Packages			112 13	1541 57	1653 70	88 80	1373 48	1462 28
	Loading			31 22	8 48	39 70	33 57	2 81	36 38
	Switching			6 34	5 69	12 03	4 12	2 29	6 41
	Total			149 69	155574	1705 43	126 49	1376 58	1505 07
	Total Expense			842 88	23701 22	24544 10			
	Appreciation of Inventory				7 85	7 85			
	Grand Total			842 88	23693 37	24536 25	725 81	27410 87	28136 68

Remarks:-

Alcohol Used:-
C.P. Acetone Used

1911
52198½ Gals. @ .406

1910
58580½ Gals. ✓ @ .405
11957 Lbs. ✓ @ .1259

Furnace, DEPT.

COST SHEET FOR RENTED BUILDINGS.

GLADSTONE, MICH. LOCATION.

Month of YEAR 19 11.

THE STICKLEN BINDER, BIRNIE, MARQUETTE, MICH.

House Number	MAINTENANCE										EARNINGS	
	Painting Outside	Interior Decoration	Carpenter Work	Mason Work	Heating Plant	Plumbing	Walks, Yards and Fences	General Items	Total for Month	Total for Year	For the Month	For the Year
Orlando Nicholas 1				26 56				34 1 74		28 64		54 00
Joe Beck 2								34 3 97		4 31		72 00
Geo. Bushman 3								34 1 65		1 99		72 00
Aug. Karnitz 4								34 2 06		2 40		72 00
James Barry 5								34 1 65		1 99		72 00
Louis Switzer 6				16 80				34 1 99		19 13		72 00
Emil Landine 7								34 2 98		3 32		67 40
John Flynn 8								34 1 65		1 99		72 00
Joe Ryerson 9								34 1 65		1 99		72 00
Louis Devet 10								34 1 65		1 99		72 00
John Halm 11								34 1 87		2 21		72 00
Joe Devet 12								34 1 82		2 16		72 00
Hans Olson 13								34 1 99		1 99		72 00
Theo DeCook 14								34 1 79		2 13		64 00
And Anderson 15								34 2 13		2 47		72 00
Leo. Brook 16								34 1 65		1 99		72 00
Ed. Buckman 17								33 1 65		1 98		72 00
Chas. Youmans 18								33 1 98		2 31		72 00
Frank LeBlanc 19								33 1 65		1 98		72 00
Wilfred Martin 20								33 2 13		2 46		72 00
Robt. Beattie 21								33 3 48		3 81		72 00
Wm. H. Miller 22								33 1 65		1 98		72 00
Richard Barry 23			5 06					33 1 65		7 04		72 00
John Wargo 24								33 2 65		2 98		72 00
John Hudoc 25								33 2 27		2 60		72 00
And. Rantilla 26								33 1 65		1 98		72 00
Joe. Karlavish 27								33 1 65		1 98		68 00
Wm. Griffith 28								33 1 72		2 05		72 00
Jos. Ryerson 29								33 2 52		2 85		72 00
Chas. Vestine 30								33 2 49		2 82		72 00
Mike Respor 31								33 3 13		3 46		66 00
Steve Ruby 32								33 1 76		2 09		72 00
Isaac Matson 33								33 2 20		2 53		72 00
Otto Karajala 34								33 1 65		1 98		72 00
John Jassia 35								33 1 65		1 98		72 00
Henry Rajala 36								33 1 65		1 98		72 00
Mike Grosse 37								33 1 65		1 98		72 00
John Benard 38								33 2 25		2 58		72 00
Matt Hulti 39								33 1 65		1 98		72 00
John Hulti 40								33 1 96		2 29		66 00
Jos. Devet, Jr. 41								33 1 65		1 98		72 00
Rodolph Zodinek 42								33 1 64		1 97		72 00
Frank Callhan 43								33 1 64		1 97		72 00
Matt Maki 44								33 1 64		1 97		72 00
Alfred Isaacson 45								33 1 64		1 97		72 00
Joe. Rosen 46								33 1 64		1 97		66 00
Vacant 47								33 1 75		2 08		72 00
And. Szemen 48								33 1 64		1 97		66 00
John Fish 49								33 1 81		2 14		66 90
John Hovae 50								33 1 64		1 97		63 00
Vacant 51									87 11	87 11		90 00
Vacant 52								8 71	13 43	22 14		80 00
G.J. Slings, Chief Eng'r 88			47 81		25 98			4 34	44 84	123 85		120 00
J. Hennigan, Fd. Cottage 1 67			356 78	47 25				10 00	11 80	427 50		96 00
Total,	2 55		409 65	90 61	25 98			39 71	254 46	822 96		3913 39
GENERAL EXPENSE:												
Stationery and Printing,												
Insurance,										55 25		
Taxes,										563 05		
Advertising,												
Legal,												
Traveling,												
Central Power										26 11	X	
Total,										644 41		
Depreciation,										2820 39		
Grand total cost of operating,										4257 76		
Net Earnings,												374 46
Number of Buildings in good repair,	54											
" " " " poor "	00											
" " " unrentable,	00											
Total Buildings,	54											
Total Number of Untenanted Buildings,	2											
Made by <u>MOS</u>												
Figured by <u>JA</u>												
Corrected by <u>JA</u>												
Examined by <u>JA</u>												
Total Rent Uncollected 1st of Month,												
Total Rent Earnings—Current Month,										3913 30		
Total,												
Total Rent Collected—Current Month,										3887 90		
Total Rent Uncollected End of Month,										25 40		
Construction Acc't Not Charged Off,										6535 82		
Insurance Valuation,										22000 00		

Net Loss - Founders Cottage & No. 51
 " Gain - Furnace Group

374.46
 2820.39

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THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

COST OF OPERATING EMPLOYEES' CLUB.

Y E A R

19 1 2

	YEAR 1911 Month.	YEAR 1910 Months.
GENERAL EXPENSE:		
Insurance,	32.83 ✓	34.44
U. S. License,	24.96	25.00
State License,	500.04	500.00
Freight on Supplies,	11.09	19.63
Liquor Bond	30.00	20.00
Stationery & Printing		0.00
Total,	598.92 ✓	599.07 ✓
MAINTENANCE:		
Equipment,	21.11	41.26
Buildings,	70.45	91.29
Lawn, Walks and Fences,		6.41
Total,	91.56 ✓	138.96 ✓
OPERATING:		
Caretaker,	720.00	720.00
Wood,	36.40	45.26
Electric Lights,	1.63	19.10
Ice,	20.00	10.00
Central Power Expense	121.19 ✓	101.85 ✓
Total,	899.22 ✓	896.21 ✓
STOCK USED:		
Beer,	1107.98	1452.32
Liquor,	402.28	481.32
Cigars,	150.80	143.87
Cigarettes,	39.13	83.23
Tobacco,	65.43	52.21
Confectionery	50.47	71.19
Total,	1816.09 ✓	2284.14 ✓
Total Expenses,	3405.79 ✓	3918.38 ✓
Total Receipts,	2803.56 -	3447.88 ✓
Net... LOSS.	602.23 ✓	470.50 ✓

STOCK ACCOUNT.

STOCK	Dec. 31, 1910	YEAR 1911		Dec. 31st., 1911	
	Inventory Last Month.	Purchased Current Month.	Total.	1911 Sales.	Inventory Current Month.
Beer,	25.35	1106.75	1132.10	1107.98	24.12
Liquor,	159.67	387.39	547.06	402.28	144.78
Cigars,	19.06	174.16	193.22	150.80	42.42
Cigarettes,	34.41	50.27	84.68	39.13	45.55
Tobacco,	3.36	72.63	75.99	65.43	10.56
Confectionery	6.42	69.05	75.47	50.47	25.00
Total,	248.27 ✓	1860.25	2108.52	1816.09 ✓	292.43

Made by RWZ
 Figured by FA
 Copied by PA
 Corrected by PA

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ANNUAL COMPARATIVE STATEMENT OF CENTRAL POWER EXPENSE

Acct. No.	Year 1911.				Year 1910.				
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per	
Production for the Year..... Daily Average..... Days Operated..... Days Idle..... Production for the Year..... Daily Average..... Days Operated..... Days Idle.....									
MAINTENANCE:-									
	Buildings	101 91	136 16	238 07	18 83	3 37	22 20		
	Boilers	345 56	411 41	756 97	399 35	464 15	863 50		
	Pumps	656 44	124 85	781 29	276 41	69 14	345 55		
	Generators	66 52	96 28	162 80	11 53	85	12 38		
	Steam Meter		217 00	217 00					
	Total -	1170 43	985 70	2156 13	706 12	537 51	1243 63		
OPERATING:-									
	Firing	1499 77	2 16	1501 93	1473 95	1 86	1475 81		
	Cilers	1029 55		1029 55	1788 49		1788 49		
	Boilers	76 50	106 22	182 72	214 66	203 42	418 08		
	Pumps		254 15	254 15		322 11	322 11		
	Generators		146 64	146 64		207 44	207 44		
	Electric Lamps & Wiring	4 73	13 78	18 51	4 88	20 90	25 78		
	Handling Fuel	240 02	35 62	275 64	114 07	17 96	132 03		
	Steam Coal 1191 Tons, 1911 83 Tons, 1910,		3849 07	3849 07		285 21	285 21		
	Cordwood 414 Cds., 1911 167 Cds., 1910,		1299 29	1299 29		477 07	477 07		
	Total -	2850 57	5706 93	8557 50	3596 05	1555 97	5132 02		
	Grand Total -	4021 00	6692 63	10713 63	4302 17	2073 48	6375 65		
DISTRIBUTION OF EXPENSE:-									
		1911 Percent	1910 Percent						
✓	No. 1 Chemical Power Expense	76.3 646	686	1016 71	843 77	1860 48	1749 17	954 73	2703 90
✓	No. 2 Chemical Power Expense	23.8 199	216	313 54	259 06	572 60	551 94	300 65	852 59
✓	Shop Expense	44.8 37	025	50 27	56 45	106 72	62 51	34 62	97 13
✓	Office Expense	51.4 043	026	60 13	64 85	124 98	65 86	35 99	101 85
✓	Operating Employes Club	19.9 042	026	58 68	62 51	121 19	65 86	35 99	101 85
✓	Switching Expense	41.4 018	015	30 77	30 23	61 00	38 25	20 86	59 11
✓	Operated Rented Buildings	15.4 013	003	11 92	14 19	26 11	7 08	3 98	11 06
	Laboratory Expense		001				2 82	1 63	4 45
	Barn Expense		000				1 04	62	1 66
✓	Retort Operating	1191. 002	002	2 54	2 31	4 85	4 06	2 13	6 19
	Total -			1544 56	1333 37	2877 93	2548 59	1391 20	3939 79
	Furnace Operating			1122 52	865 70	1988 22	1753 58	682 28	2435 86
	Furnace Idle Expense			1353 92	4493 56	5847 48			
	Total as above -			4021 00	6692 63	10713 63	4302 17	2073 48	6375 65

The above distribution to Operating 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.

REMARKS:-

Boilers:-

No. of boilers in battery, 5
Horsepower, 625
Type of boilers, Stirling Water Tube
Name of makers, The Stirling Company.

Generators:-

No. of Generators, 2
No. Operated, 2
Type of Generator, Westinghouse, 75 KW, 220 Volts DC.
Name of makers, The Westinghouse Company.

Pumps:-

No. of pumps, 2
Capacity per minute, 3472 gallons, 5 million gals. in 24 hours.
No. operated, 2
Type of pump, Prescott Triple Expansion.
Name of maker, F.M. Prescott Steam Pump Company.

Made by
Figured by
Copied by
Corrected by
Examined by

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

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ANNUAL COMPARATIVE STATEMENT OF NO. 1 CHEMICAL POWER EXPENSE FOR 1911 AND 1910.

Acct. No.	Year 1911				Year 1910			
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
Production for the Year..... Daily Average..... Days Operated..... Days Idle..... Production for the Year..... Daily Average..... Days Operated..... Days Idle.....								
MAINTENANCE:-								
Buildings	9 53	2 19	11 72		193 08	150 74	343 82	
Boilers	264 03	194 69	458 72		645 72	7188 56	7834 28	
Pumps	9 16	2 01	11 17		174 31	124 12	298 43	
Total	282 72	198 89	481 61		1013 11	7463 42	8476 53	
OPERATING:-								
Engineers	963 95		963 95	✓	1540 94		1540 94	
Firing	1724 50	9 78	1734 28	✓	2926 27	12 93	2939 20	
Boilers	156 05	102 32	258 37	✓	241 47	122 33	363 80	
Pumps		78 79	78 79	✓		152 33	152 33	
Electric Lamps & Wiring	1 58	21 19	22 77	✓		32 43	32 43	
Central Power Expense <i>237.8</i>	1016 71	843 77	1860 48	✓	1749 17	954 73	2703 90	
Handling Fuel	661 88	51 07	712 95	✓	871 46	24 35	895 81	
Steam Coal, 5381.5 Tons, 1911 7894 Tons, 1910		17657 56	17657 56	✓		24661 69	24661 69	
Cardwood, 229 Ods. " 506 Ods., 1910		679 05	679 05	✓		1420 01	1420 01	
Total	4524 67	19445 53	23968 20	✓	7329 31	27380 80	34710 11	
Grand Total	4807 39	19642 42	24449 81	✓	8342 42	34844 22	43186 64	✓
DISTRIBUTION OF EXPENSE:-								
		1911	1910					
		Per Cent	Per Cent					
✓ No. 1 Alcohol Operating <i>1831.9</i>	326	326	1567 36	6400 19	7967 55	2716 74	11350 10	14066 84
✓ No. 1 Acetate Operating <i>3663.8</i>	652	648	3134 12	12797 96	15932 08	5400 98	22561 42	27962 40
✓ Special Chem. Products Optg. <i>004</i>	004	007	16 91	72 48	89 39	57 93	246 51	304 44
✓ No. 2 Chemical Power Expense <i>6014.3</i>	018	019	89 00	371 79	460 79	166 77	686 19	852 96
Total as above			4807 39	19642 42	24449 81	8342 42	34844 22	43186 64

The above distribution to Operating 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.

Remarks:-

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 boiler, Tubular
 Name of makers, Bass Foundry & Machine Company

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

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF NO. 2 CHEMICAL POWER EXPENSE FOR 1911 AND 1910.

Production for the Year.....		Daily Average.....		Days Operated.....		Days Idle.....		
Production for the Year.....		Daily Average.....		Days Operated.....		Days Idle.....		
Acct. No.	Year... 1911..				Year... 1910..			
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
MAINTENANCE:-								
	Buildings	29 57	16 99	46 56	27 57	6 95	34 52	
	Boilers	555 35	419 25	974 60	368 85	380 09	748 94	
	Pumps	69 45	27 93	97 38	164 35	131 15	295 50	
	Total	654 37	464 17	1118 54 ✓	560 77	518 19	1078 96	
OPERATING:-								
	Firing	1678 26	6 62	1684 88 ✓	2921 95	14 21	2936 16 ✓	
	Boilers	209 47	61 80	271 27 ✓	183 08	62 43	245 51 ✓	
	Pumps		63 77	63 77 ✓		124 93	124 93 ✓	
	Electric Lamps & Wiring		9 33	9 33 ✓	2 40	41 34	43 74 ✓	
	Central Power Expense	769.3 313 54	259 06	572 60 ✓	551 94	300 65	852 59 ✓	
	No. 1 Chemical Power Expense	101.1 89 00	371 79	460 79 ✓	166 77	686 19	852 96 ✓	
	Handling Fuel	458 13	56 09	514 22 ✓	878 05	58 75	936 80 ✓	
	Steam Coal, 3935.3 Tons 1911	6581	Tons 1910	12865 52 ✓		20461 93	20461 93 ✓	
	Total	2748 40	13693 98	16442 38 ✓	4704 19	21750 43	26454 62	
	Grand Total	3402 77	14158 15	17560 92 ✓	5264 96	22268 62	27533 58	
DISTRIBUTION OF EXPENSE:								
		1911	1910					
		Per	Per					
		Cent	Cent					
✓	No. 2 Alcohol Operating	491.6	352	352	1197 74	4983 58	6181 32 ✓	1853 35
✓	No. 2 Acetate Operating	314.1	648	648	2205 03	9174 57	11379 60 ✓	3411 61
	Total as above				3402 77	14158 15	17560 92 ✓	5264 96
								22268 62
								27533 58

The above distribution to Operating 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.

Remarks:-
 No. of boilers in battery, 4
 Horsepower 640
 Type of boilers Sterling Water Tube
 Name of makers, The Sterling Company
 No. in Operation 4

THE CLEVELAND-CLIFFS IRON CO.,
Furnace Department

STATEMENT OF SHOP LABOR, 1911.

MACHINE SHOP

<u>Month</u>	<u>Pay Roll</u>	<u>Supplies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Cost Per Hour</u>
Jan.	682.40	18.58	700.98	2848	.2461
Feb.	681.37	18.85	700.22	2809	.2492
March	721.83	15.05	736.88	2984	.2469
April	562.33	35.36	597.69	2272	.2631
May	635.84	20.35	656.19	2659	.2467
June	371.72	54.85	426.57	1543	.2765
July	102.09	44.23	146.32	468	.3126
Aug.	304.60	39.84	344.44	1283	.2685
Sept.	489.44	18.70	508.14	2092	.2429
Oct.	683.54	51.94	735.48	2886	.2548
Nov.	651.96	18.91	670.87	2690	.2494
Dec.	579.46	83.18	662.64	2194	.3020
Total	6466.58	419.84	6886.42	26728	.2577

BLACKSMITH SHOP

Jan.	123.96	3.37	127.33	502	.2536
Feb.	116.21	3.28	119.49	468	.2549
March	132.65	9.21	141.86	536	.2647
April	124.99	7.10	132.09	502	.2631
May	131.08	7.28	138.36	528	.2623
June	97.20	6.21	103.41	395	.2618
July	83.95	2.23	86.18	300	.2872
Aug.	132.91	16.12	149.03	531	.2802
Sept.	123.16	11.56	134.72	498	.2705
Oct.	138.11	22.03	160.14	558	.2870
Nov.	134.61	16.04	150.65	568	.2651
Dec.	118.75	15.06	133.81	500	.2676
Total	1457.58	119.49	1577.07	5886	.2679

CARPENTER SHOP

Jan.	280.00	.78	280.78	820	.3424
Feb.	238.30	1.42	239.72	907	.2643
March	299.65	.38	300.03	1220	.2456
April	216.95	2.00	218.95	922	.2375
May	252.45	5.23	257.68	1068	.2412
June	252.20	24.22	276.42	1040	.2658
July	236.38	1.08	237.46	977	.2430
Aug.	302.02	.38	302.40	1290	.2340
Sept.	189.35	5.38	194.73	780	.2496
Oct.	131.07	4.88	135.95	505	.2692
Nov.	123.67	4.38	128.05	495	.2586
Dec.	211.88	.70	212.58	878	.2412
Total	2733.92	50.83	2784.75	10902	.2552

THE CLEVELAND-CLIFFS IRON COM
Furnace Department

COMPARATIVE STATEMENT OF STABLE EXPENSES FOR 1911 AND 1910

	1911				1910			
	Labor	Sup- plies	Total	Cost Per Horse Per Day	Labor	Sup- plies	Total	Cost per Horse Per Day
H a y		1425 29	1425 29	430		1299 55	1299 55	304
O a t s	1 80	857 38	859 18	259	8 07	1157 41	1165 48	273
Feed & Bran		156 06	156 06	047	3 60	107 05	110 65	026
C o r n		145 30	145 30	044		193 30	193 30	045
Straw	1 80	113 60	115 40	035		97 70	97 70	023
Oils and Grease		5 17	5 17	002		5 13	5 13	001
Combs and Brushes		2 26	2 26	001		13 48	13 48	003
Shovels, Brooms and Pails		11 19	11 19	004		8 16	8 16	002
Medicines	1 03	17 69	18 72	006		35 87	35 87	008
Veterinary Service			0 00			30 00	30 00	007
Shoeing	116 80	74 15	190 95	057	108 73	113 70	222 43	052
Reps. Carts, Wagons & Sleighs	116 48	12 44	128 92	039	93 96	65 07	159 03	037
Reps. Carriages & Cutters	2 45	25	2 70	001	27 87	5 59	33 46	008
Repairs to Harness	12 59	91 78	104 37	031	4 79	174 99	179 78	042
Repairs to Watering Trough			0 00			3 29	3 29	001
Repairs to Telephone		1 32	1 32	000	2 05		2 05	000
Electric Lamps & Wiring		60	60	000	1 29	15 81	17 10	004
Repairs to Buildings	137 21	116 67	253 88	076	51 05	94 78	145 83	034
Insurance		2 04	2 04	001		2 04	2 04	000
Barn Boss	130 00		130 00	039	337 50		337 50	079
Central Power			0 00		1 04	62	1 66	000
Total	520 16	3033 19	3553 35	1 072	639 95	3423 54	4063 49	949

Distribution:-

	No. Horses	No. Days	No. Horses	No. Days
Cinder Carts	1	363	1	369
Braize Carts	1	312	1	365
Retort Fuel Cart	1	242	1	365
Transfer Car	1	442	2	673
Office rig	2	720	2	730
Superintendent's rig	1	396	1	465
Hauling sand	2	287	2	436
Miscellaneous teaming	4	554	3	877
Total	13	3316	13	4280

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 Construction Accounts charged off.

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

ANNUAL COMPARATIVE STATEMENT OF LABORATORY EXPENSES.

SALARIES:-		1911	1910
E. J. Hudson	Chief Chemist	4500 00	4500 00
# A. S. Kittleberger	Ass't Chemist	702 74	2300 00
C. E. Ott	" "	1800 00	1800 00
Richard Barry	Laboratory Boy (Gladstone)	960 00	960 00
Elmer Frei	" " (Marquette)	900 00	900 00
Robert Wright	" " "	900 00	855 93
# Sidney Katzenstein	Ass't Chemist (Gladstone)	540 00	450 00
TOTAL		10302 74 ✓	11765 93 ✓
SHOP LABOR:-			
Repairs to apparatus		73 52	52 12
CENTRAL POWER EXPENSE		122 66 ✓	36 78
SUPPLIES:-			
Chemicals, apparatus etc.,		2688 90	4071 69
Travelling:-			
E. J. Hudson		784 20	609 85
Richard Barry		30 00	
Sidney Katzenstein		89 35	
GRAND TOTAL		14091 37 ✓	16536 37 ✓

DISTRIBUTION:-			
Pig Iron Cost Sheet	C.C.Iron Co.	985 34 ✓	1798 73
Pig Iron Idle Expense	" " "	384 00 ✓	
Pig Iron Cost Sheet	Pioneer Iron Co.	2115 34 ✓	2516 64
Alcohol No.1 Cost Sheet	C.C.Iron Co.	324 01 ✓	526 19
Alcohol No.1 Idle Expense	" " "	134 54 ✓	
Alcohol No. 2 Cost Sheet	" " "	167 61 ✓	289 53
Alcohol No.2 Idle Expense	" " "	31 51 ✓	
Alcohol Cost Sheet	Pioneer Iron Co.	1188 18 ✓	1478 32
Acetate No.1 Cost Sheet	C.C.Iron Co.	301 35 ✓	546 43
Acetate No.1 Idle Expense	" " "	58 64 ✓	
Acetate No.2 Cost Sheet	" " "	188 53 ✓	309 84
Acetate No.2 Idle Expense	" " "	37 33 ✓	
Acetate Cost Sheet	Pioneer Iron Co.	1357 25 ✓	1233 22
Formaldehyde Cost Sheet	" " "	237 58 ✓	277 90
Acetone Cost Sheet	" " "	1072 97 ✓	981 99
Acetic Acid Cost Sheet	" " "	558 21 ✓	232 85
Sodium Acetate Cost Sheet	" " "	18 06 ✓	
Sulphuric Acid Cost Sheet	" " "	359 22 ✓	
Sulphuric Acid Idle Expense	" " "	99 80	
Special Products	" " "	3873 50 ✓	5771 80
Analysis		470 76 ✓	890 87
Chemists		3402 74 ✓	4880 93
Special Products	C.C.Iron Co.	598 40	562 66
Analysis		58 40	112 66
Chemists		540 00	450 00
Refined Tar Cost Sheet	Pioneer Iron Co.		7 21
Refined Tar Idle Expense	" " "		3 06
TOTAL AS ABOVE		14091 37 ✓	16536 37 ✓

REMARKS:-
 #Balance A.S.Kittleberger's salary charged to Sulphuric Acid Plant.
 #Balance Sidney Katzenstein's salary charged to Superintendent Chemical Plants at Gladstone.

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THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

ANNUAL COMPARATIVE STATEMENT OF LOCOMOTIVE CRANE EXPENSE
FOR THE YEAR 1911.

Hours Worked	1440
Hours Idle	2210
Total Hours	3650

Engineer	172.32
Fireman	134.60
Repairs	452.04
Oils & Grease	15.64
Fuel 21.6 Tons @ 3.327	71.86
Depreciation	1631.64
Total -	2478.10 ✓

Rate per hour worked \$1.721

DISTRIBUTION

Pig Iron Cost Sheet		1698.59
Bottom Fillers	7.07	
Handling Cinders	1266.54	
Trestles & Dock	419.68	
Stoves	1.76	
Cleaning Up	3.54	
Furnace Idle Expense		679.85
Trestles & Dock	80.63	
Stoves	362.05	
Tracks & Yard	237.17	
Wood from Yard		81.36
Stock of Coal		10.23
Chemical Supplies		3.54
Acetate Operating No. 1		4.53
Handling Fuel	4.53	
Total as above -		2478.10 ✓

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

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF CENTRAL OFFICE EXPENSE

Acct. No.		1912	1911
1	Salaries	22669.50	23403.68
2	Printing & Stationery	1666.36	1835.63
3	Postage	626.10	484.76
4	Office Furniture & Fixtures	350.53	738.62
	a. Furniture & Fixtures	122.10	183.96
	b. Apparatus	211.43	525.91
	c. Repairs	17.00	28.75
5	Office Expense	2109.94	2176.95
	a. Petty Office Expense	1263.54	977.58
	b. Papers & Periodicals	199.77	104.84
	c. Moving, Changing etc.	368.58	736.61
	d. Livery Hire	62.83	169.16
	f. Fidelity Bond Premium		10.00
	g. Dues paid Trade & other Associations	25.00	25.00
	i. Extra Expense taking Inventory	83.30	46.43
	m. Insurance on Office Property	106.92	107.33
6	Telephone & Telegraph	3563.40	2966.72
	a. Line Rentals	431.66	544.92
	b. Telephone Tolls & Telegrams	2407.72	1790.94
	c. Salaries & Service	570.00	480.00
	d. Local Installation & Repairs	154.02	150.86
7	Rentals	1696.00	1696.00
	b. Rental of Agent's House	1696.00	1696.00
8	Legal Expense	1399.67	1347.12
	a. Proportion of Salaries	1125.00	1125.00
	b. Proportion of Expenses	259.67	218.27
	c. Retainer's Fee		3.85
	d. Litigation not chargeable direct	15.00	
9	Traveling & Entertainment	1624.69	1461.70
	a. Car Fare, Hotel & Incidental Expenses	1624.69	1461.70
10	Donations	445.50	305.00
	a. Contributions, charitable etc.	354.50	305.00
	b. Donated Rents	91.00	
11	General Welfare	1047.98	1002.23
	a. Prizes etc.	50.00	50.00
	a2 Proportion Expense charged by Treasurer	586.00	
	d. Salary Visiting Nurse	300.00	300.00
	f. Miscellaneous Expenses		50.00
	g. Net Loss on Employees Club	111.98	602.23
13	Stable Expense	2659.86	2780.02
	a. Barn Expense	1355.90	1749.84
	b. Proportion Stable Expense	1303.96	1030.18
14	Exchange Paid	348.17	290.21
15	Pensions Paid	448.20	499.95
17	Mechanical Engineering	6148.37	5674.34
	a. Salaries	4800.00	4300.00
	b. Traveling	1224.70	1313.05
	c. Supplies	123.67	61.29
21	Special & General Expense (See other side)	317.13	336.90
	a. Special Payments	10.00	10.50
	c. Special Expenses of Officers	47.86	13.40
	d. Special Expenses	259.27	313.00
	Total	47121.40	46999.83

DISTRIBUTION:- Based on Operating Pay Rolls.

THE C.C.I. CO.

Pig Iron	Cost Sheet	195	29212.39	5973.43
" "	Idle Exp.			3187.99
Alcohol	Cost Sheet	068	3184.70	2005.25
" "	Idle Exp.			582.36
Acetate of Lime	Cost Sheet	064	3025.13	2040.87
" " "	Idle Exp.			423.67
Special Products	Statement	003	147.38	161.48
New Construction	Statement	037	1757.56	

PIONEER IRON CO.:-

Pig Iron	Cost Sheet	216	10158.67	13321.24
Alcohol	" "	062	2940.67	4218.27
Acetate of Lime	" "	088	4160.90	4759.17
Formaldehyde	" "	016	763.33	868.36
Acetone	" "	089	4186.70	3854.02
Acetic Acid	" "	031	1474.37	2057.49
Sodium Acetate	" "	027	1260.89	57.91
Acetic Anhydride	" "	021	976.83	
Sulphuric Acid	" "	044	2069.97	1240.89
" "	Idle Exp.	005	215.57	485.94
Special Products	Statement	022	1029.31	1761.49
New Construction	Statement	012	557.03	

Total as above 100 47121.40 46999.83

<u>VOUCHER NO.</u>		<u>AMOUNT.</u>
2026	Expense Private Car, Goodman	\$ 47.86
12070	Christmas Presents (Cigars)	3.25
12093	A. H. Krause (Exam. of Sulph. Acid Plant)	253.27
3025	Journal	6.00
7028	"	<u>6.75</u>
	Total	\$317.13

E. R. M.

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E. R. M.

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MAR 24 1911
AM

ANNUAL COMPARATIVE STATEMENT OF CENTRAL OFFICE EXPENSE

Acct. No.		1911	1910
1	Salaries	23403.68	21897.36
2	Printing & Stationery	1835.63	1516.66
3	Postage	484.76	458.46
4	Office Furniture & Fixtures	738.62	794.98
	a. Furniture & Fixtures	183.96	378.87
	b. Apparatus	525.91	396.11
	c. Repairs	28.75	20.00
5	Office Expense	2176.95	2049.35
	a. Petty Office Expense	977.58	1202.41
	b. Papers & Periodicals	104.84	144.25
	c. Moving, Changing etc.	736.61	267.06
	d. Livery Hire	169.16	248.00
	f. Fidelity Bond Premium	10.00	0.00
	g. Dues paid Trade & other Associations	25.00	25.00
	i. Extra Expense taking Inventory	46.43	63.83
	m. Insurance on Office property	107.33	98.80
6	Telephone & Telegraph	2966.72	2759.61
	a. Line Rentals	544.92	537.01
	b. Telephone Tolls & Telegrams	1790.94	1588.60
	c. Salaries and service	480.00	435.00
	d. Local Installation and repairs	150.86	199.00
7	Rentals	1696.00	1709.70
	b. Rental Agent's house etc.	1696.00	1709.70
8	Legal Expense	1347.12	1105.15
	a. Proportion of Salaries	1125.00	906.18
	b. Proportion of Expenses	218.27	148.97
	c. Retainer's fees	3.85	50.00
9	Traveling & Entertainment	1461.70	2025.91
	a. Car fare, hotel and incidental expenses	1461.70	2025.91
10	Donations	305.00	35.00
	a. Contributions, charitable etc.	305.00	50.00
11	General Welfare	1002.23	830.50
	a. Prizes etc.	50.00	45.00
	d. Salary Visiting Nurse	300.00	310.00
	f. Miscellaneous expenses	50.00	5.00
	g. Net Loss of employee's club	602.23	470.50
13	Stable Expense	2780.02	2635.74
	a. Barn Expense	1749.84	1705.43
	b. Proportion of Stable Expense	1030.18	930.31
14	Exchange	290.21	309.13
15	Pensions Paid	499.95	0.00
17	Mechanical Engineering	5674.34	4798.74
	a. Salaries	4300.00	3600.00
	b. Traveling	1313.05	1081.86
	c. Supplies	61.29	116.88
21	Special & General Expense	336.90	44.98
	a. Special Payments	10.50	6.43
	c. Special expense of officers	13.40	0.00
	d. Special Expenses	313.00	38.55
	Total	46999.83	42971.27

DISTRIBUTION:- Based on Operating pay rolls
THE C.C.I. CO.

Furnace General Expense		
Pig Iron Cost Sheet	5973.43	10712.15
Pig Iron Idle Expense Statement	3187.99	
Alcohol General Expense No. 1		
Alcohol Cost Sheet No. 1	1309.98	2187.30
Alcohol Idle Expense Statement No. 1	440.16	
Alcohol General Expense No. 2		
Alcohol Cost Sheet No. 2	695.27	1187.40
Alcohol Idle Expense Statement No. 2	142.20	
Acetate General Expense No. 1		
Acetate Cost Sheet No. 1	1253.31	2294.92
Acetate Idle Expense Statement No. 1	265.35	
Acetate General Expense No. 2		
Acetate Cost Sheet No. 2	787.56	
Acetate Idle Expense Statement No. 2	158.32	
Special Chemical Products as per Statement	161.48	341.12
PIONEER IRON CO:-		
Furnace General Expense		
Pig Iron Cost Sheet	13321.24	11222.69
Alcohol General Expense		
Alcohol Cost Sheet	4218.27	4317.97
Acetate General Expense		
Acetate Cost Sheet	4759.17	3612.42
Formaldehyde General Expense		
Formaldehyde Cost Sheet	868.36	799.76
Acetone General Expense		
Acetone Cost Sheet	3854.02	2904.49
Acetic Acid General Expense		
Acetic Acid Cost Sheet	2057.49	827.87
Sulphuric Acid General Expense		
Sulphuric Acid Cost Sheet	1240.89	0.00
Sulphuric Acid Idle Expense Statement	485.94	0.00
Sodium Acetate General Expense	57.91	0.00
Special Chemical Products Statement	1761.49	1221.34
Refined Tar General Expense		27.95

Total as above 46999.83 42971.27

Checked by CWA
Audited by CWA
Reviewed by CWA
Approved by CWA

TOTAL CHARGES TO ACCOUNT 21-D:-

January No. 1008	\$160.00
March 3023	10.00
May 5010	100.00
June 6048	10.00
Journal	33.00
Insurance on Launch	23.00
Recovering Launch	10.00
	<u>\$313.00</u>

E. R. M.

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

ANNUAL COMPARATIVE STATEMENT OF DONATIONS MADE
 FOR THE YEARS 1911 AND 1910.

<u>To Whom Paid</u>	<u>By Whom and when</u>		<u>Amount</u>	
	<u>Authorized</u>		<u>1911</u>	<u>1910</u>
Gladstone Baseball Association	A. Farrell	2/15/11	50 00	
Marquette Fire Department	" "	3/20/11	10 00	
Telephone Operator's Ass'n	" "	4/22/11	5 00	
Salvation Army	" "	4/22/10		25 00
Marquette Baseball Ass'n	" "	5/12/11	25 00	
J.W. Stewart, Chairman Hospital for Railway Employees	" "	6/19/11	25 00	
W.F. Hammel, Mayor Labor Day Celebration	" "	8/7/11	20 00	
St. Luke's Hospital Repairs to Building	" "	9/8/11	100 00	
F.J. Jennison, Treasurer, Taft Day Celebration	" "	9/20/11	50 00	
Marquette Fire Department	" "	11/28/11	10 00	
Mrs. Mary B. Burt, Treasurer Tuberculosis Hospital Stamps	" "	12/22/11	10 00	
Mrs. G.W. Shaw, Treasurer Tuberculosis Hospital Stamps	" "	4/3/10		10 00
	TOTAL		305 00 ✓	35 00 ✓

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF LEGAL EXPENSES FOR THE YEARS 1911 AND 1910.

		<u>1911</u>	<u>1910</u>
Salary of Solicitor, W. P. Belden		1125.00	906.18
Expenses of Solicitor		237.82	169.87
Retainer Fees			
G. R. Empson		3.85	
W. T. Potter			<u>50.00</u>
	Total	<u>1366.17</u> ✓	<u>1126.05</u> ✓
Charged to:-			
Central Office Expense		1347.12 ✓	1105.15 ✓
Accounts Receivable		19.05	20.90
# Pioneer Iron Co.	19.05	6.30	
Superior Charcoal Iron Co.		14.60	
	Total as above	<u>1366.17</u> ✓	<u>1126.05</u> ✓

Remarks:-

Charged to Personal Injury Expense Alcohol Cost Sheet, account Whitman case.

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL STATEMENT OF PENSIONS PAID YEAR, 1911.

Record No.	Name	Date		Rate Per Mo.	1911	Prev's. Year	Total To Date
		Began Or Ended					
1	William H. Fuller	Aug, 1910		22 35	268 20	111 75	379 95
2	Ida Wightman	May, 1911		15 00	120 00		120 00
Total					388 20 ✓	111 75 ✓	499 95 ✓

Made by Ros
 Figured by Ja
 Copied by Ros
 Corrected by Ros
 Examined by Ros

701/2

CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

STATEMENT OF EXPENDITURES DURING THE YEAR 1911 FOR SAFETY
DEVICES TO MACHINERY AND EQUIPMENT, AND ALL IMPROVEMENTS
MADE FOR SAFETY OF EMPLOYEES.

<u>PLANT</u>	<u>DETAIL OF WORK DONE</u>	<u>COST SHEET OR STATEMENT</u>	<u>AMOUNT</u>
Furnace	- Guards for belts on Dynamo in Blow Engine Room	Central Power	\$28.00



NOTE:- No Central Office Expense for Year.

3/8/12
AJP/CH

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL STATEMENT OF FIRE INSURANCE AS OF DECEMBER 31st., 1911

Policy Number	Company	Agent	Property Insured	Location	Term	Expiration	Amount	Premium	Acr'd	Acr'd	Total	Balance	Detail of Ins. Carried				
							of Policy		Prevs	Cur't	Acr'd		Property	Amount	Rate	Losses	
527	Hamburg-Brennan	1st Natl. Bank, Neg'nee	Stock of Supplies	Furnace	3 yrs	12/ 1/11	1666 67	50 84	35 33	15 51	50 84	0 00					
1041	Saint Paul	" " " "	" " "	"	1 "	" " "	1666 67	16 95	1 44	15 51	16 95	0 00	Furnace Houses	18000.	.60	None	
161260	Westchester	" " " "	" " "	"	3 "	" " "	1666 66	50 83	35 32	15 51	50 83	0 00	Club House	2000.	1 50	"	
526	Hamburg-Breenan	" " " "	Furnace Property	"	3 "	" " "	4475 00	132 43	91 95	40 48	132 43	0 00	Club Ho. Fur.-Fix.	1000.	1 50	"	
1043	Saint Paul	" " " "	" " "	"	1 "	" " "	4475 00	44 15	3 67	40 48	44 15	0 00	Office Bldg.	2000.	3 00	"	
161259	Westchester	" " " "	" " "	"	3 "	" " "	4475 00	132 44	91 96	40 48	132 44	0 00	Office & Lab. & Fix.	700.	3 00	"	
92694	Phoenix	Peter White & Co.	Furnace Property & Sup.	"	36 Mo.	12/31/14	15325 00	303 83		8 99	8 99	294 84	Supplies	5000.	2 50	"	
92302	Phoenix	" " " "	Dwellings	Fur & Gladstone	3 Yrs.	12/ 1/12	19000 00	114 00	41 09	38 04	79 13	34 87	Acetate Stor. Ho.	175.	2 50	"	
882173	National	" " " "	Locomotive	Furnace	3 "	12/ 1/12	1000 00	10 00	3 56	3 33	6 89	3 11	Chemical Supplies	250.	2 50	"	
1168	Mannheim	" " " "	Launch	Marq'tte	1 "	11/19/11	1000 00	30 00	2 50	23 00	25 50	0 00	Carpenter Shop	200.	5 00	"	
837M	Hartford	" " " "	Charcoal Cars	Furnace	36 Mo.	12/31/14	2900 00	87 00		2 40	2 40	84 60	Charcoal Cars	2900.	3 00	"	
								972 47	306 82	243 73	550 55	417 42	Founder's Cottage	1500.	60	"	
								Less rebate on Launch					Barn	1000.	60	"	
								4 50					Barn Boss' House	500.	60	"	
								967 97					Chief Engineer's Ho.	1000.	60	"	
													Ass't. Auditor's Res.	1000.	60	"	
													Locomotive	1000.	1 00	"	
														38425.			

Remarks:- All new policies issued for three year term.

Distribution

Central Office Exp.	50.00	✓	107.33
Rented Buildings	55.25	✓	
Club Ho. Cost Sheet	32.83	✓	
Supplies	50.34		
Chemical Supplies	3.20		
Barn Account	2.04	✓	
Shop Labor	4.50		
Switching	3.33		
Acetate No. 1	1.92	✓	1.09
Charcoal	40.32		
Total	243.73	✓	

Made by JHS
 Figured by JHS
 Copied by CLH
 Corrected by JHS
 Examined by JHS

24

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

STATEMENT OF UNINSURED PROPERTY
DECEMBER 31ST., 1911.

<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 & 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 ✓	" "
#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 building
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 ✓	" "

Made by Plws
 Figured by Ja
 Copied by Plws
 Corrected by Plws
 Examined by Plws

24

RECEIVED

JUN 22 1912

Acc. _____ Ans. _____

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES.

YEARS 1911 & 1910.

	<u>PIG IRON COST SHEET</u>	<u>1911</u>	<u>1910.</u>
A	Mike Jusko Mutual Settlement		350.00

MAR 2 1912

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

Acc. Ans.

COMPARATIVE STATEMENT OF TAXES FOR 1911 AND 1910

	1911				1910			
	Acres	Valu- ation	Taxes		Valu- ation	Taxes		
<u>CITY OF GLADSTONE:-</u>								
City Lots and Government Lot No. 3		5439 00	322 79	6725 00	330 60			
Founder's house		400 00	18 59	400 00	15 95			
Assistant Auditor's Residence		1000 00	46 56	1000 00	39 92			
Chief Engineer's Residence		1400 00	65 19	1400 00	118 53			
Barn Boss' house		500 00	23 28	500 00	19 95			
Total		8739 00	476 41	10025 00	524 95			
<u>BRAMPTON TOWNSHIP:-</u>								
Furnace Plant: Real Estate	39.20	180000 00	5092 76	180000 00	4374 11			
" " Personal		181586 00	5140 09	65000 00	1579 23			
Limestone Quarry	40.00	100 00	2 82	100 00	2 44			
Total	79 20	361686 00	10235 67	245100 00	5955 78			
Grand Total	79.20	370425 00	10712 08	255125 00	6480 73			

Distribution of Taxes

	1911				1910			
	Acres	Valu- ation	Taxes		Valu- ation	Taxes		
<u>CITY OF GLADSTONE:-</u>								
W. G. Mather, Treasurer		322 79		330 60				
Operating Rented Buildings		153 62		194 35				
Total			476 41		524 95			
<u>BRAMPTON TOWNSHIP:-</u>								
Furnace General Expense		3163 87		3037 45				
Furnace Idle Expense		2056 32						
Alcohol General Expense No. 1		1936 70		1786 73				
Alcohol Idle Expense		1134 00						
Alcohol General Expense No. 2		620 37		595 58				
Alcohol Idle Expense No. 2		403 20						
Acetate General Expense No. 1		258 23		238 23				
Acetate Idle Expense No. 1		151 20						
Acetate General Expense No. 2		62 03		59 56				
Acetate Idle Expense No. 2		40 32						
Operating Rented Buildings		409 43		238 23				
Total			10235 67		5955 78			
Grand Total			10712 08		6480 73			

Remarks:-

Taxes on City Lots and Government Lot No. 3 include \$ 48.11, Sewer tax for 1910
 Taxes on Chief Engineer's residence includes \$ 62.67, " " " 1910
 Taxes on City Lots include 66.80, " " " 1911

26

Made by RWJ

Figured by ewt

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING FISCAL YEARS 1911 - 1910

Account of	Grade	1911			1910		
		Net Tons-Lbs.	Price	Amount	Net Tons-Lbs.	Price	Amount
From Lake Erie ports	Yough $\frac{3}{4}$	18038-0200	2 141	38619 03	13613-1700	2 250	30631 17
" Pittsburgh Coal Company	"	1345-1650	3 200	4306 56			
Total		19383-1850	2 215	42925 59	13613-1700	2 250	30631 17
Lake freight			279	5411 44		350	4764 86
Switching from Gladstone Dock			048	925 05		226	3070 84
Switching in Furnace yard			009	169 31		021	294 60
Discharging			140	2705 72		150	2042 08
Reloading			101	1964 96		537	7311 05
Handling			003	62 51		051	696 05
Analysis						005	64 60
Bonus						030	408 42
Insurance			006	120 80		004	50 23
Rail freight			010	201 87			
Total		19383-1850	2 811	54487 25	13613-1700	3 624	49333 90
Inventory end of fiscal year		6959-1250	3 186	22161 94	11142-0550	2 537	28273 93
Grand Total		26343-1100	2 909	76649 19	24756-0250	3 135	77607 83
CHARGED TO:-							
Central Power Plant		1191-0000	3 232	3849 07	88-0000	3 241	285 21
No. 1 Chemical Power Plant		5381-1000	3 281	17657 56	7894-0000	3 124	24661 69
No. 2 Chemical Power Plant		3935-0600	3 268	12865 52	6581-0000	3 110	20461 93
No. 1 Acetate Plant		361-0000	3 282	1185 54	675-0000	3 123	2108 94
Retorts		519-0000	3 257	1690 55	2060-0000	3 099	6385 32
Locomotive		241-0000	3 276	789 68	365-1000	3 110	1136 76
Locomotive Crane		21-1200	3 327	71 86	133-0000	3 053	406 04
Total		11650-0800	3 271	38109 78	17796-1000	3 115	55445 89
On hand at end of fiscal year		14693-0300	2 623	38539 41	6959-1250	3 186	22161 94
ANTHRACITE SCREENINGS:-							
From Pittsburgh Coal Company		65-1600	2 122	139 65	175-1500	2 790	490 35
" The C. Reiss Coal Company		1084-0500	2 180	2363 51	1565-1100	2 250	3522 55
" F. B. Spear & Son		275-0300	1 000	275 15			
" Consolidated Fuel & Lumber Company		252-0200	2 000	504 20	92-1800	2 250	209 02
" James Pickands & Company					328-0000	1 000	328 00
Total		1677-0600	1 957	3282 51	2162-0400	2 104	4549 92
Freight			152	255 53		165	358 12
Switching in Furnace Yard			022	35 96		011	22 90
Handling			052	87 29		066	141 60
Total		1677-0600	2 183	3661 29	2162-0400	2 346	5072 54
Inventory at end of fiscal year		1370-0590	2 338	3203 76	1545-0190	2 279	3521 75
Total		3047-1190	2 252	6865 05	3707-0590	2 318	8594 29
CHARGED TO:-							
Retorts		2466-0000	2 276	5613 53	2337-0000	2 306	5390 53
On hand December 31st., 1911		581-1190	2 151	1251 52	1370-0590	2 338	3203 76

Remarks:-

	1911	1910
Lake Freight	.30	.35
Discharging from Vessel	.15	.15
Reloading	.30 & .35	.35
Switching from Dock	.15	.15
Cost of coal at Lake Erie ports	2.141	2.25
Cost of coal from James Pickands & Co.	3.200	3.25

1910

The variation of the cost of coal consumed is due to the large balance on hand purchased at the lower lake ports in 1909, also to increased cost of coal at plant for 1910: Lake freight and reloading charges are both higher. Switching from Gladstone dock, reloading and handling charges are high account of transferring large amount of coal from dock to plant which was purchased in 1909. Bonus of .030 per ton is analysis on coal as per Inter-office Memo No. 249, dated January 6th., 1911

1911:-

The decreased cost of coal is due to purchase price of coal. The increase in price of coal consumed is due to large balance of 1910 coal on the Gladstone dock, and to the amount purchased from the Pittsburg Coal Company which cost \$3.20 per ton.

Made by Geo
Figured by ✓
Exp'd by CW
By Geo

20

MAR 4 1912

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

COMPARATIVE WOOD REPORT.

1911

1910

WOOD RECEIVED

Inventory Jan. 1st- Dec. 1st

Kilns

3502.50

3001.50

Yard

448.75

4041.75

Received from Mathews

7917.

20070.50

" " Alger

13003.50

20306.50

" " Limestone

13499.

23135.00

" " Jobbers

624.50

368.00

TOTAL -----

38995.25

70923.25 ✓

WOOD USED

Carbonized in Kilns

28746.25

50529.

" " Retorts

8513.

15090.

Used at #1 Chemical Power Plant

229.

506.

" " Central Power Plant

414.

167.

" " Club House

7.

9.

Sold to Tenements

311.

343.

For Thawing Ore

57.

157.

" Retort Fuel

198.

156.

" Locomotive

5.

" Bottom Fillers

19.

4.

" Coal Forkers

2.

" White Washers

4.

" Furnace Stoves

4.

38498.25

66972. ✓

Inventory end of Fiscal Year

Yard

497.

448.75

Kilns

3502.50

TOTAL -----

38995.25

70923.25 ✓

Discontinued

808
497
311

THE CLEVELAND-CLIFFS IRON CO.
PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

AUSTIN FARRELL, MANAGER.

ACCOUNTING DEPARTMENT
A. J. PEARCE, ASS'T AUDITOR.

MARQUETTE, MICH... Feb. 23rd., 1912.

SUBJECT:

RECEIVED

FEB 29 1912

Act. Ans.

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

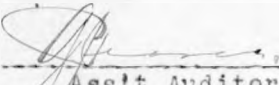
Dear Sir:-

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 & electric current used.
No. 1 Chem. Power Expense	Based on coal consumed
No. 2 " " " "	" " " " "
Barn Expense	Based on horse hours
Switching Expense	" " cars switched
Crane	Based on actual hours worked
Shop Labor	" " " " "

Yours truly,

RWS/FA


Ass't Auditor.

27
31

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

VACANT PROPERTY
IN THE CITY OF GLADSTONE DECEMBER 31st., 1911

<u>Lot</u>	<u>Block</u>	<u>Block</u>	<u>Addition</u>	<u>Ward</u>
10	4		Central Avenue	Second
7-	7	W. 56 ft of S. 3 1/8 ft	" "	"
8	7	W. 56 ft	" "	"
9	7	" " "	" "	"
10	7	" " "	" "	"
11	7	" " "	" "	"
12-	7	" " "	" "	"
13-	7	" " "	" "	"
6	5		" "	"
10	5		" "	"
11	5		" "	"
11	75		First	Fourth
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	Second
18	2		" "	"
19	2		" "	"
20	2		" "	"
21	2		" "	"
22	2		" "	"
30	2		" "	"
31	2		" "	"
32	2		" "	"

Government Lot No. 3, Section 22 - 40 - 22

First

Made by Row
 Figured by ✓
 Copied by Ja
 Corrected by Row
 Examined by Row

MS ARE

31

RECEIVED
MAR 25 1912
Ack. Ans.

THE CLEVELAND-CLIFFS IRON CO.
Furnace Dept.

SALES GLADSTONE CITY PROPERTY DURING THE YEAR 1911

The Cleveland-Cliffs Iron Co. deeded to F.W.Aslett the East 44 ft. of lots 8-9-10-11 on Block 7 of Central Ave. Addition of the City of Gladstone in exchange for the West 56 ft. of lots 12 and 13, also the West 56 ft. of the South $3\frac{1}{2}$ ft. of Lot 7 in Block 7 of the Central Avenue Addition of the City of Gladstone.

Handwritten signature
M. W. ...

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

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

Old No.	New No.	1911	1910	1909	1908	1907
119	1		234	198	270	480
132	2		126	294	324	1274
103	3		# 000	1512	924	924
124	4	252	198	226	378	378
125	5		180	558	288	1393
137	6		198	96	342	504
117	7		252	270	324	414
138	8	18	216	540	342	1621
109	9	420	1092	1428	1008	1092
101	10	336	1176	942	564	558
111	11		72	558	36	540
112	12		252	396	324	540
131	13		198	234	378	324
134	14		72	164	306	558
136	15		36	366	378	432
127	16		# 000	378	342	468
105	17	420	1008	1428	1008	1008
102	18	420	1176	588	588	792
104	19	336	1260	420	252	612
120	20		# 000	242	180	504
108	21		162	414	234	324
135	22	252	198	288	270	540
110	23		198	486	306	540
107	24		180	162	354	756
113	25		252	468	252	162
116	26	252	72	88	252	522
129	27		126	366	306	468
128	28		234	180	378	432
118	29		# 000	360	360	324
		2706✓	9168✓	13650✓	11268✓	18484✓
Total -						

NOTE:- 1910 -
Bad order, cars idle.
Car No. 115 at Limestone Camp.

SUMMARY OF MILEAGE MADE BY CHARCOAL CARS IN VARIOUS SERVICES

	1911	1910	1909	1908	1907
Soo Line Charcoal service				144	360
Soo Line & E.&L.S.Charcoal (Mashek)	18	3456	6678	7092	10566
Soo Line lime service, Manistique	2688	5712	6300	4032	4620
C.&N.W. charcoal service					2938
M&SE charcoal service, Carp to No. 2 furnace.			672		
TOTAL -	2706	9168✓	13650	11268✓	18484✓

34

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL STATEMENT OF PLANT ACCOUNT FOR THE YEAR

1 9 1 1

No.	AUTHORIZATION		C O S T				DISPOSITION				Balance Now Carried	Remarks		
	Amount	Work to be Completed	Current Year	Total to date	Unexp'd Balance	Work was Completed	Cost Sheet or Account		Current Year	Total to date				
53	Twenty 80-Cord Kilns Experimental Kiln & Retort TOTAL KILNS	23509 22	9 12 02	22901 89 1108 24 24010 13		12 - 02 10 - 06	Charcoal	Dep.	1/2	Bu.	3054 01 120 33 3174 34	21885 86 1108 24 22994 10	1016 03 0 00 1016 03	Based on charcoal Prod. " " " "
73	New Still House & App. Sup. Est.	71999.00 13055 00	85054 00 10 31 05	85472 16	418 16	11 - 05	Alcohol No. 1	Dep.	15%	Yr.	8552 40	78040 65	7431 51	
77	Chute Apparatus Sup. Est.	8705 00 10510 00	19215 00 7 31 06	18546 65		8 - 06	" No. 1	"	17%	"	2102 00	16027 75	2518 90	
72	New Blowing & P. Engines Sup. Est.	28390 50 972 00	29360 50 1 10 08	27275 87		7 - 08	" No. 1	"	15%	"	2660 80	24279 80	2996 07	
90	Alcohol Storage Tanks TOTAL ALCOHOL PLANT NO. 1	3660 40	1 10 08	2823 11 134117 79			" #1 Idle Ex."	"	15%	"	1330 40	2823 11	0 00	
39	Alcohol Plant No. 2)		1 12 01	61141 90		11 - 02	Alcohol No. 2	Dep.	10%	Yr.	2917 44	61141 90	0 00	
39	Acetate Plant No. 2)	111929 49	1 12 01	7963 40			" #2 Idle Ex."	"	10%	"	1028 80			
72	New Blowing & P. Engines Sup. Est.	9463 50 324 00	9787 50 1 12 01	6818 96 2273 00			Acetate No. 2	"	10%	"	494 00	7904 00	59 40	
	TOTAL CHEMICAL PLANT NO. 2			78197 26			" #2 Idle Ex."	"	10%	"	247 00			
81	Dry Floor	4818 00	8 1 06	4787 19		8 - 06	Alcohol No. 2	"	10%	"	454 40	4146 40	2672 56	
72	New Blowing & P. Engs. Sup. Est.	9463 50 324 00	9787 50	9091 95			" #2 Idle Ex"	"	10%	"	227 20	1383 35	889 65	
67	Acetate Storage House TOTAL ACETATE PLANT NO. 1	1364 98	7 31 06	1231 32 15110 46		8 - 08	Acetate No. 1	Dep.	17%	Yr.	542 56	4137 02	650 17	
58	Five Double Tenement Houses	6087 40	12 01 02	5010 64		11 - 02	" #1 Idle Ex"	"	17%	"	271 28			
59	Club House	3298 30	10 15 02	3515 03	216 73	11 - 02	Rented Bldgs.	Dep.	Net	Ea.	2820 39	4638 73	371 91	
74	Steam Heater, Engineer's Residence	450 00	9 22 05	450 00		9 - 05	" No. 1	"	15%	"	909 20	8296 45	795 50	
84	Steam Heater, Auditor's Residence	640 00	11 7 06	640 00		11 - 06	" #1 Idle Ex"	"	15%	"	454 60	949 53	281 79	
	Clenning Site, Walks & Fences		#	495 04		11 - 02	" No. 1	"	25%	"	205 28			
2	Tenement House Well No. 1	547 19	9 20 98	547 19		10 - 98	" #1 Idle Ex"	"	25%	"	102 64			
43	Tenement House Well No. 2 TOTAL HOUSES	516 65	7 9 01	516 65 11174 55		7 - 01					2485 56	13383 00	1727 46	
100	Fire Alarm System TOTAL PLANT ACCOUNT	612 48	7 1 11	585 46 585 46		7 - 11	No. 1 Chem. Plt.	Ins.	Fund		241 21	585 46		
							No. 2 Chem. Plt.	Ins.	Fund		344 25			
											35554 26	237348 25	25847 40	
72	New Blowing & P. Engines Sup. Est.	52575.00 1800 00	54375 00 6 1 05	5051 08 27275 87		7 - 05	Pig Iron	Dep.	50	Ton	2660 80	5051 08	0 00	Based on iron prod.
				9091 95			Alcohol No. 1	"	15%	Yr.	1330 40	24279 80	2996 07	
				6818 96			" #1 Idle Exp	"	15%	"	909 20	8296 45	795 50	
				2273 00			Acetate No. 1	Dep.	15%	"	454 60	4146 40	2672 56	
							" #1 Idle Ex"	"	15%	"	454 40			
							Alcohol No. 2	"	10%	"	227 20	1383 35	889 65	
							" #2 Idle Ex"	"	10%	"	151 60			
							Acetate No. 2	"	10%	"	75 80			
							" #2 Idle Ex"	"	10%	"	6264 00	43157 08	7353 78	

Remarks:-

No E & A's were made covering these expenditures.

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

32 1/2
35

THE CLEVELAND-CLIFFS IRON CO.,
Furnace Department

ANNUAL STATEMENT OF EQUIPMENT FOR THE YEAR 1911.

AUTHORIZATION			C O S T				DISPOSITION		Balance
No.	Amount	work to be Completed	Current year	Total to date	Unexp'd Balance	Cost Sheet or Account	Current Year	Total to date	now Carried
97	Locomotive Crane	7975.00	11 - 09	8158.39	183.39	Optg. Crane Dep. 20% Yr.	1631.64	3263.28	4895.11

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

36

THE CLEVELAND-CLIFFS IRON CO
Furnace Department

ANNUAL STATEMENT OF NEW CONSTRUCTION FOR THE YEAR 1911

AUTHORIZATION			C O S T			DISPOSITION			Balance now Carried		
No.	Amount	Work to be Completed	Current Year	Total to date	Unexp'd Balance	Cost Sheet or Account	Current Year	Total to date			
105	Furnace Charging Apparatus	1694 00	11 11 11	1803 78	1803 78	109 78	Pig Iron Dep. 50 p Ton	1803 78	1803 78	0 00	Based on iron prod.
101	Cont. Vaom. Dist. App.	45686 00	4 1 12	13902 54	13902 54	31783 46				13902 54	
102	Cont. Colm. for Neut. Liqr.	7987 40	4 1 12	2538 30	2538 30	5449 10				2538 30	
	TOTAL			16440 84	16440 84					16440 84	
103	Acetate Evaporator	18375 00	4 1 12	4595 37	4595 37	13779 63				4595 37	
104	Acetate Dryer	12630 00	4 1 12	2478 70	2478 70	10151 30				2478 70	
106	Acetate Ribbon Dryer	9685 00	12 1 12	2388 13	2388 13	7296 87				2388 13	
	TOTAL			9462 20	9462 20					9462 20	
	GRAND TOTAL NEW CONSTRUCTION			27706 82	27706 82				1803 78	25903 04	

Made by
 Figured by
 Copied by
 Corrected by
 Examined by

33

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN
CHARGED OFF DECEMBER 31ST., 1911.

E&A No	Description	Amount Authorized	Total Cost To Date
<u>FURNACE GROUP:-</u>			
4	Switch Engine	2995.30	3043.75
11	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 <i>Churn Pk.</i>		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	1432.81
51	Painting company houses		806.79
65	New barn	260.74	260.74
67	New east house walls	3222.53	3306.56
	Road to furnace		800.00
	Rented houses		12789.84
72	New blowing & pumping engines	5437.50	5051.08
75	Ore siding	1589.10	1875.19
	Furnace		20119.77
79	Local telephone system	390.00	285.49
100	Fire Alarm System	612.48	585.46
105	Furnace Charging Apparatus	1694.00	1803.78
	Experimental Kiln & Retort		1108.24
<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 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 & stills		760.00

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN CHARGED OFF DECEMBER 31ST., 1911.

E.&A. No.	Description	Amount Authorized	Total Cost To Date
<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 Kilns, Original 40 Kilns		96887.11
10	Ten 60-cord Kilns	6845.30	25047.79
90	Alcohol Storage Tanks	3660.40	6026.90
			2823.11
<u>CHEMICAL PLANT NO. 2. GROUP:-</u>			
48	Covering tanks & stills		475.00
49	Feed Water heater	679.21	638.03
76	Addition to barrel storage house	188.54	273.11
39	Chemical Plant No. 2		61141.90
<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
94	Foundations Ass't Auditor's Res'd	402.80	265.58
93	Foundations Eng'r Res'd.	380.16	245.00

made by RWS
 figured by _____
 copied by _____

D-CLIFFS IRON COMPANY.
NEER FURNACE NO. 1.

Ending..... DECEMBER 31, 1911.

THE STEINLEIN-BINDERT-MILERS-MARQUETTE, MICH.

	PRODUCED OR RECEIVED							USED				
	Total for Month	Previous Months	Over and Short for Season	Total from JAN. 1st, 19 11	On Hand JAN 1st, 19 11	TOTAL	Total for Month	Previous Months	Over and Short for Season	Total from JAN 1st, 19 11.	Balance on Hand	
ORE.												
Lake	3090-1200 ✓	18940- 800		17030-2000	2275	19805-2000	2810-2048 ✓	18169-2197		15980-2000	3325- 00 ✓	
Cliffs Shaft		2988-1880		2988-1880	1882	4265-1880	2-1509 ✓	2367-2111		2370-1880	1895- 00 ✓	
Lake Silica					164	164-0000		400- 686	236- 686	164-0000	000- 00 ✓	
Lucy		1554-1940		1554-1940	251	1805-1940	161- 11 ✓	1147-1929		1808-1940	497- 00 ✓	
Maas								1305- 725	1305- 725		000- 00 ✓	
Negaunee	1654-1240 ✓	9288- 980		10942-2220		10942-2220	1718-1858 ✓	6547- 367		10265-2220	677- 00 ✓	
Total,	4745-200 ✓	27717- 620		32462- 820	4022	36484- 820	4693- 936 ✓	26938-1295	1541-1411	30090- 820	6394 ✓	
WOOD.												
KILNS	4360	20883½		25243½	3202½	28746½	4360	24586½		28746½ ✓		
RETORTS	1300	7218		8518		8518	1300	7218		8518		
YARD	68	2027½		2095½	448½	2544½	206½	1840½		2047½ x	497 ✓	
Total,	5728	30124½		35852½ ✓	3951½	39803½	5866½	33440		39806½		
LIMESTONE.					1955	1955	100- 720 ✓	587-1520		688-	1267-	
Charcoal Produced—Kilns Bu.	189660	1080073		1269733 ✓		1269733						
“ “ Retorts “	53760	324880		388640 ✓	3840	387460						
“ Purchased “		1155		1155 ✓	13862	15017						
Total -	248420 ✓	1406108		1654528 ✓	17702	1672230	237000 ✓	1266660		1508660	168570 ✓	
Central Power Expense										414 ✓		
#1 Chemical Power Expense							24½	204½		229 ✓		
Wood Sales							64	247		311 ✓		
Club House							1	6		7 ✓		
Kilns							84	724½		808½ ✓		
Returned Fuel							27	171		193 ✓		
Thawing Ore							3	54		57 ✓		
Heating Labores Quartas							3	16		19 ✓		
Furnace Stoves								4		4 ✓		
TOTAL -							206½	1840½		2047½		
Distribution of Wood.												
Made by.....												
Figured by.....												
Copied by.....												
Corrected by.....												
Examined by.....												

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LAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

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TOTAL REGULAR & SPECIAL IRON

Pig Iron Stock Report for the Week ending

DECEMBER 31ST., 1912.

PIG IRON GRADES	PRODUCTION							SHIPMENTS									
	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Produced Since Jan. 1st, 1911	Transferred To and From	On Hand Jan. 1st, 1911	Total Produced and in Stock Since Jan 1st, 1911	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Since Jan. 1st, 1911.	Balance in Stock	
A Scotch	39	151	190	262		452	75	1124	1501		15	15	623		638	863	
B Scotch	42	329	371	739		1160	75	255	1490	55		55	920		975	515	
C Scotch	142	337	479	413	5	887		481	1368				730	5	725	643	
No. 1 Low	192	351	543	1468		2011		312	2323		40	40	1388		1428	895	
No. 1 High	154	262	416	812		1228		2131	3359				159		159	3200	
No. 2 Low	58	147	205	824	1	1028		2632	3710				832	1	831	2829	
No. 2 High	157	27	184	1351		2035		3346	5331				1033		1033	4293	
No. 3 Low	31	5	36	2717	26	2727		11939	14666				726	26	700	13966	
No. 3 Low Car Wheel								1803	1803		15	15			15	1788	
No. 3 High							2967		2967				374		374	2593	
No. 3 High Car Wheel				1949	13	1962	2967	1836	831				831		831	00	
No. 4 Low							1638		1638				1085		1085	603	
No. 4 Low Car Wheel				926		926	1638	954	192				117		117	75	
No. 4 High							1582		1582				1136		1136	446	
No. 4 High Car Wheel				603	13	585	1582	1255	253				239	18	221	37	
No. 5 Low				801	6	807		801	1608				834	1	833	775	
No. 5 High				401	2	399		935	1334				399	2	397	937	
No. 6				311	1	310		553	863				299	1	298	565	
Spec. Hi. Phos.																	
Castings																	
Bessemer Special																	
Bessemer																	
Bessemer																	
TOTAL	815	1609	2424 ✓	14127	34	16517 ✓		30457	46974		55	70	125	11325	54	11396	35073
All Rail Shipments											55	70	125	6133	8	6300	
Lake Shipments													5642	46	5596		
Made by.....	mme																
Figured by.....	v																
Copied by.....	sa																
Corrected by.....	mme																
Examined by.....	mme																

LEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

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SPECIAL IRON

Pig Iron Stock Report for the Week ending

DECEMBER 31ST.,

1911.

PIG IRON GRADES	PRODUCTION									SHIPMENTS						
	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Produced Since Jan. 1st, 1911	Transferred To and From	On Hand Jan. 1st, 1911	Total Produced and in Stock Since Jan 1st, 1911	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Since Jan. 1st, 1911	Balance in Stock
A Scotch																
B Scotch				26		26		15	41							41
C Scotch				43		43		23	66				12		12	54
No. 1 Low				97		97		55	152				100		100	52
No. 1 High				125		125		102	227				6		6	221
No. 2 Low				219		219		111	330				39		39	291
No. 2 High				1593		1593		799	2397							2397
No. 3 Low				1660		1660		2258	3918				75		75	3843
No. 3 Low Car Wheel																
No. 3 High				1671		1671		1296	2967				374		374	2593
No. 3 High Car Wheel																
No. 4 Low				900		900		733	1633				1085		1085	603
No. 4 Low Car Wheel																
No. 4 High				595		595		987	1582				1136		1136	446
No. 4 High Car Wheel																
No. 5 Low				792		792		662	1454				679		679	775
No. 5 High				392		392		295	687				310		310	377
No. 6				233		233		163	446							446
Spec. Hi. Phos.																
Castings																
Bessemer Special																
Bessemer																
Bessemer																
TOTAL				8401		8401		7554	15955				3816		3816	12139
All Rail Shipments													1005		1005	
Lake Shipments													2811		2811	
Regular Grades	815	1609	2424	5726	34	8116		22903	31019	55	70	125	8009	54	8080	22939
Total Regular and Special Grades	815	1609	2424	14127	34	16517		30457	46974	55	70	125	11825	54	11896	35078
Made by.....																
Figured by.....																
Copied by.....																
Corrected by.....																
Checked by.....																

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THE CLEVELAND-CLEVELANDS IRON COMPANY.
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending _____ 19__

COMMODITY	Gals. 95 %	PRODUCED AND RECEIVED.						SHIPPED AND USED.							
		TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 19__	Total on Hand Jan. 1st, 19__	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 19__	Balance on Hand
		As Per Cost Sheet	By Grades							As Per Cost Sheet	By Grades				
Alcohol Plant No. 1		17500		8956 8/16	129	106939 1/4	47065	154004 1/4	Shipped and Used 95 %	4931		120646 1/4	129	125448 1/4	28556
	95	12569	12569	38170 1/4	129	50610 1/4	47065	97675 1/4	Shipped 95 %			73379	129	73250	
	96			3859		3859		3859	Used 95 %	4931		47267 1/4		52198 1/4	
	97	4416	4325 1/4	33329		37655		37655	Grades Shipped			69149 1/4	129	69020 1/4	
	99	515	494 1/4	12926 1/4		13421		13421	Gals. 95 %			4143		4143	
									" 97 "						
									" 98 "						
									" 99 "						
									Grades Used in						
									Denaturing 97 %	4416	4325 1/4	17790 1/4		22116	
									Diamond Spirits 99 "	411	394 1/4	881 1/4		1276	
									Special Spirits No. 1 99 "			2500		2500	
									Perfume Spirits "						
									Soap "						
									Solvent No. 1 97 "			7908		7908	
									" " 8 99 "	104	100	9440		9540	
									" " 11 "						
									" " 12 "						
									" " 33 99 "			105		105	
									Denaturing 96 "			3859		3859	
									Methyl Acetone A 95 "			99		99	
									" " AA 97 "			3450		3450	
									" " AAA 97 "			38		38	
Alcohol Plant No. 2		10601		5850 1/4	70	69035 1/4	4586	73621 1/4	Shipped and Used 95 %	5275		60126 1/4	70	65331 1/4	8290
	95	10454	10454	5850 1/4	70	68888 1/4	4586	73474 1/4	Shipped 95 %	5275		60126 1/4	70	65331 1/4	
	97	147	144			144		144	Used 95 %						
									Grades Shipped						
									Gals. 95 %	5128	5128	60126 1/4		65184 1/4	
									" 97 "	147	144	144		144	
									" 98 "						
									" 99 "						
									Grades Used in						
									Denaturing "						
									Diamond Spirits "						
									Special Spirits No. 1 "						
									Perfume Spirits "						
									Soap "						
									Solvent No. 1 "						
									" " 8 "						
									" " 11 "						
									" " 12 "						
									" " "						
									Methyl Acetone A "						
									" " AA "						
									" " AAA "						

Made by RWJ
 Figured by JG
 Copied by JG
 Corrected by RWJ
 Examined by _____

THE CLEVELAND-CLIFFS IRON COMPANY
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the month ending

COMMODITY	PRODUCED AND RECEIVED.						SHIPPED AND USED.							
	TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 19 11.	Total on Hand Jan. 1st, 19 11.	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 19 11.	Balance on Hand
	As Per Cost Sheet	By Grades							As Per Cost Sheet	By Grades				
Gray Acetate of Lime Plant No. 1 Produced	828659 ✓		1784664		2108333 ✓	1269927	3378260	Shipped To Marquette	262780 ✓		2991280		3254010 ✓	124250
Total								Total						
Gray Acetate of Lime Plant No. 2 Produced	207000 ✓		1097303		1304303 ✓	105802	1410105	Shipped To Marquette	252910 ✓		1126410		1279820 ✓	30785
Total	530659				3412636	1375729	4788345	Total						
Acetate Returned Special Solvent #1 Returned.			8080		3080		3080				8080		8080	
Acetone from Marquette						1390	1390	Shipped Used in Special Solvent No. 12			1390		1390	
Total								Total						
Special Products								Shipped						
Denaturing Alcohol	4325½ ✓		22049½	12	26363 ✓		26368		4325½		22049½	12	26368	
Diamond Spirits	394½ ✓		881½		1276 ✓		1276		394½		881½		1276	
Special Spirits No. 1			2500		2500 ✓		2500				2500		2500	
Perfume Spirits														
Soap "														
Special Solvent No. 1			8520		8520 ✓		8520				8520		8520	
" " " 8	100 ✓		9440		9540 ✓		9540		100		9440		9540	
" " " 11														
" " " 12														
" " " 24														
" " " 38			105		105 ✓		105				105		105	
Methyl Acetone A			99		99 ✓		99				99		99	
" " AA			3450		3450 ✓		3450				3450		3450	
" " AAA			50		50 ✓		50				50		50	
Methyl Acetate	106½ ✓				106½ ✓		106½		106½				106½	
Made by <u>900</u>														
Figured by <u>900</u>														
Copied by <u>900</u>														
Corrected by <u>900</u>														
Examined by <u>900</u>														

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THE CLEVELAND-CLIFFS IRON CO.,
Furnace Department.

STOCK ACCOUNT

DECEMBER 31, 1911.

SUPPLIES

Furnace		21969.81 ✓
Chemical		2058.34 ✓
Laboratory		250.10 ✓
Stock of Coal	15274-1490 ton	39790.93 ✓
Club House		292.43 ✓

TOTAL - 64361.61 ✓

EQUIPMENT

Furnace		5075.13 ✓
---------	--	-----------

ORES

Lake	✓ 3325 tons @ 3.256	10827.15
Cliffs Shaft	✓ 1895 " @ 4.004	7587.58
Lucy	✓ 497 " @ 1.809	899.07
Negaunee	✓ 677 " @ 3.333	2256.44
	6394 ✓ " 3.374	21570.24 ✓

WOOD IN YARD

497 ✓ Cords @ 2.920 1451.13 ✓

CHARCOAL "Bushels"

168570 Bus. @ .0765 12895.60 ✓

LIMESTONE Tons

1267 ✓ Tons @ .974 1234.43 ✓

GRAND TOTAL ----- 106588.14 ✓

Balance Sheet

Reference to Detail C1 - A9 -06 - C7

C1	64361.61 ✓
A9	5075.13 ✓
C1	21570.24 ✓
C1	1451.13 ✓
C1	12895.60 ✓
C1	1234.43 ✓
	<u>106588.14 ✓</u>

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THE CLEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

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Pic Iron ~~Cost Sheet~~ IDLE EXPENSE

Month of _____ YEAR 19 11

Number of Blast Tons Made this Blast	Tons Produced, 1 Month			Operated Days		
	Tons Produced	Months	Cost Per Ton	Total	1 Mo. Mos.
	Labor	Supplies	Total	Total	5 Mos.	154 Days
GENERAL EXPENSE—						
Insurance,				2056 32		
Taxes,		2056 32		2056 32		
Analysis,	384 00			384 00		
Central Office Expenses, 068%	2125 85	1062 14		3187 99		
Total,	2509 85	3118 46		5628 31		
MAINTENANCE—						
Tracks and Yard,	434 51	352 78		787 29		
Trestles and Dock,	153 65	40 07		193 72		
Buildings,	338 39	447 88		786 27		
Machinery,	317 30	46 67		363 97		
Tuyeres,	11 08	1 63		12 71		
Belinings and Renewals,						
Water Supply,						
Pig Iron Trucks, Coal and Ore Buggies,	74 95	19 76		94 71		
Stack,	389 58	83 16		472 74		
Stores,	4594 82	3253 22		7838 04		
Cleaning Up,	44 67	5 14		49 81		
Total,	6348 95	4250 31		10599 26		
OPERATING—						
Machinery,	518 00	49 44		567 44		
Electric xxxx Lamps & Wiring		9 08		9 08		
Bottom Fillers,	10 29	47 99		58 28		
Top Fillers,	8 04			8 04		
Handling Iron,						
Handling Cinder,	10 29	47 99		58 28		
Weighing and Grading Iron,	288 00			288 00		
Founders, Keepers and Helpers,	630 00	10 00		640 00		
Coal Forkers,						
Casting Tools,	23 85	3 54		27 39		
Sand and Clay,	141 92	9 62		151 54		
xxxxxx Central Power Expense	1353 92	4493 56		5847 48		
Wood,						
Cleaning Stoves,						
Boiler Fuel, 1 Mo. Mos. Tons,						
Total,	2984 31	4671 22		7655 53		
STOCK USED—						
Ore,						
Charcoal,		267 35		267 35		
Limestone,						
Total, Total	11843 11	12307 34		24150 45		
xxxxxx Expense						
DEPRECIATION—						
Construction Account,						
Improvement Account,						
Total,						
TOTAL COST ON YARD.						
FREIGHT ALLOWANCE 1 Mo. Mos. Tons,						
LOADING AND SWITCHING:						
1 Month Mos. Tons						
Loading Cars						
Switching						
TOTAL LOADING CARS.						
1 Month Mos. Tons						
Loading Vessels						
Grand Total 1 Month,						
Grand Total Months,						
Construction Account not sunk off,						
Improvement Account not sunk off,						

	SUMMARY OF COST PER TON.			YIELD.	
	On Yard	On Cars	On Vessel	1 Month Mos.
Cost on Yard, as above,					
Cost to Load, as above,					
Total,					
Commissions and Expenses Cleveland Office,					
Total Cost,					
				Average Yield of Ore,	
				Bushels Coal per Ton,	
				Lbs. Flux per Ton,	
				Cost per Ton for Labor,	

QRR	DETAIL OF STOCK USED.			Amount	Amount	Cost Per Ton	Per Cent of Ore Used
	Tons	Lbs.	Current Month's Price				
Total							
LIMESTONE							
CHARCOAL							

REMARKS:
General Expense (Salaries and Other Expenses) Charged..... per cent of General Office and..... per cent of Gladstone Office.

Wife by: AW
 Figured by: AW
 Checked by: AW
 Insured by: AW

THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

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ALCOHOL COST SHEET. IDLE EXPENSE

PLANT No. 1

For the Month of _____ YEAR _____ 1911.

Gallons Produced, 95% 1 Mo. Average per day Days Operated Idle

Gallons Produced, 95% Mos. Average per day Days Operated Idle **157**

Acc'r No.		LABOR	SUPPLIES	TOTAL	TOTAL		COST PER GALLON	
					5 Mos.	1 Mo.	1 Mo.	Mos.
	General Expense:							
	Insurance,		590 63		590 63			
	Taxes,		1134 00		1134 00 ✓			
	Analysis,	82 31	52 23		134 54 ✓			
	Central Office Expense. <i>209%</i> ,	296 20	143 96		440 16 ✓			
	Personal Injury Expense,							
	Total,	378 51	1920 82		2299 33 ✓			
	Maintenance:							
	Buildings,	55 60	2 13		57 73			
	Tanks and Stills,	196 91	92 04		288 95			
	Condensers,	193 91	88 17		282 08			
	Machinery,	181 36	179 16		360 52			
	Smoke Mains,	34 09	33 34		67 43			
	Sewer,	11 70			11 70			
	Tracks and Yard,	24 23	29 56		53 85			
	Cleaning Up,	2 22			2 22			
	Total,	700 08	424 40		1124 48 ✓			
	Operating:							
	Superintendent,	291 83			291 83			
	Stillmen,		136 00		136 00			
	Condensermen,							
	Machinery,							
	Electric Lamps and Wiring,							
	No. 1 Chem. Power Expense.....%,							
	Chemicals,							
	Total,	291 83	136 00		427 83 ✓			
	Cost of Production,							
	Depreciation:							
	XXXXXXXXXX Plant Account.		7842 63		7842 63			
	Total,	1370 42	10323 91		11694 33 X			
	Shipping Expense:							
	Gallons Shipped, 1 Mo.Mos.							
	Packages,							
	Loading,							
	Switching,							
	Total,							
	Total Cost on Cars, 1 month,							
	Total Cost on Cars,months,							
	Total Cost on Cars months, 191...							
	Average Cost per Gallon, Plants No. 1 and 2,							

Improvement Account not charged off Smoke received fromCords Wood, 1 Mo., Yield

Smoke received fromCords Wood, Mos., Yield

REMARKS:

Wrote by AW

Figured by AW

Copied by AW

Corrected by AW

Examined by AW

THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

4 1/2
45

ALCOHOL COST SHEET, IDLE EXPENSE

PLANT No. 2

For the Month of YEAR 1911.

Gallons Produced, 95% 1 Mo. Average per day Days Operated Idle

Gallons Produced, 95% Mos. Average per day Days Operated Idle 162

Acc'r No.		LABOR	SUPPLIES	TOTAL	TOTAL		COST PER GALLON	
					5 Mos.	1 Mo.	1 Mo.Mos.
	General Expense:							
	Insurance,		900 00		900 00			
	Taxes,		403 20		403 20			
	Analysis,	23 13	3 38		31 51			
	Central Office Expense..... <u>C.O.S.</u> ,	99 67	42 53		142 20			
	Personal Injury Expense,							
	Total,	127 80	1349 11		1476 91			
	Maintenance:							
	Buildings,							
	Tanks and Stills,		208 04		208 04			
	Condensers,	20 36	95		21 31			
	Machinery,							
	Smoke Mains,							
	Sewer,	2 70			2 70			
	Tracks and Yard,							
	Cleaning Up,							
	Total,	23 06	208 99		232 05			
	Operating:							
	Superintendent,	23 83			23 83			
	Stillmen,		15 00		15 00			
	Condensermen,							
	Machinery,							
	Electric Lamps and Wiring,							
	No. 1 Chem. Power Expense.....%,							
	Chemicals,							
	Total,	23 83	15 00		38 83			
	Cost of Production,							
	Depreciation:							
	xxxxxxx Plant Account		1690 44		1690 44			
	Total,							
	Total Cost,	174 69	3283 54		3438 23			
	Shipping Expense:							
	Gallons Shipped, 1 Mo.Mos.							
	Packages,							
	Loading,							
	Switching,							
	Total,							
	Total Cost on Cars, 1 month,							
	Total Cost on Cars,months,							
	Total Cost on Cars months, 191... ,							
	Average Cost per Gallon, Plants No. 1 and 2,							

Improvement Account not charged off Smoke received fromCords Wood, 1 Mo., Yield

Smoke received fromCords Wood,Mos., Yield

REMARKS:

Made by RWS

Figured by CR

Copied by CR

Corrected by J.P.P.

Examined by J.P.P.

THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

57
49

RAY ACETATE COST SHEET IDLE EXPENSE.

For the Month of YEAR

1911.

Production, 1 month lbs. Average per day lbs. Days Operating Idle.....
 Production, months lbs. Average per day lbs. Days Operating Idle..... **157**.....

Acc't No.		LABOR	SUPPLIES	TOTAL	TOTAL		COST PER CWT.	
					5 Mos.	1 Mo.	1 Mo.Mos.
	General Expense:							
	Insurance,		64			64		
	Taxes,		151 20			151 20		
	Analysis,	49 88	8 76			58 64		
	Central Office Expense .006%,	183 46	81 89			265 35		
	Personal Injuries,							
	Total,	233 34	242 49			475 83		
	Maintenance:							
	Buildings,	4 85	1 83			6 68		
	Tanks and Pans,	5 94	09			6 03		
	Machinery,							
	Dry Floor,	7 06	8 60			15 66		
	Tracks and Yard,							
	Cleaning Up,							
	Total,	17 65	10 52			28 37		
	Operating:							
	Superintendent,	70 98				70 98		
	Contractors,		20 00			20 00		
	Condensermen,							
	Machinery,							
	Electric Lamps and Wiring,							
	No. 1 Chem. Power Expense.....%,							
	Handling Fuel,							
	Fuel,							
	Lime,							
	Total,	70 98	20 00			90 98		
	Cost of Production,							
	Depreciation:							
	EXPENSE Plant Account		932 09			932 09		
	Total,							
	Total Cost,	322 17	1205 10			1527 27		
	Shipping Expense:							
	Pounds Shipped, 1 Mo.Mos.							
	Sacks,							
	Loading,							
	Switching,							
	Total,							
	Total Cost on Cars, 1 month,							
	Total Cost on Cars, months,							
	Total Cost on Cars..... months, 191....,							

Improvement Account not charged off..... Smoke received from.....Cords Wood, 1 Mo., Yield.....
 Smoke received from.....CORDS WOOD,.....LBS., 1 Mo.

REMARKS:
 Fuel, 1 Mo.,Mos.
 Tons Coal..... @.....

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THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

44
48

GRAY ACETATE COST SHEET, IDLE EXPENSE

PLANT No. 2

For the Month of _____ YEAR _____ 1911

Production, 1 month.....lbs. Average per day.....lbs. Days Operating..... Idle.....
 Production,months.....lbs. Average per day.....lbs. Days Operating..... Idle. **162**

Acc't No.		LABOR	SUPPLIES	TOTAL	TOTAL		COST PER CWT.	
					5 Mos.	1 Mo.	1 Mo.Mos.
	General Expense:							
	Insurance,							
	Taxes,		40 32		40 32			
	Analysis,	32 02	5 31		37 33			
	Central Office Expense <i>C.O.O. %</i> ,	110 32	48 00		158 32			
	Personal Injuries,							
	Total,	142 34	93 63		235 97			
	Maintenance:							
	Buildings,	29 00	83		29 83			
	Tanks and Pans,							
	Machinery,							
	Dry Floor,							
	Tracks and Yard,							
	Cleaning Up,							
	Total,	29 00	83		29 83			
	Operating:							
	Superintendent,	33 36			33 36			
	Contractors,		15 00		15 00			
	Condensermen,							
	Machinery,							
	Electric Lamps and Wiring,							
	No. 1 Chem. Power Expense.....%,							
	Handling Fuel,							
	Fuel,							
	Lime,							
	Total,	33 36	15 00		48 36			
	Cost of Production,							
	Depreciation:							
	XXXXXXXXXX Plant Account		387 36		387 36			
	Total,	204 70	496 82		701 52			
	Total Cost,							
	Shipping Expense:							
	Pounds Shipped, 1 Mo. Mos.							
	Sacks,							
	Loading,							
	Switching,							
	Total,							
	Total Cost on Cars, 1 month,							
	Total Cost on Cars,months,							
	Total Cost on Cars,months, 1911,							

Improvement Account not charged off..... Smoke received from.....Cords Wood, 1 Mo., Yield.....
 Smoke received from.....Cords Wood,Mos., Yield.....

REMARKS:
 Fuel, 1 Mo.,Mos.
 Tons Coal..... @.....

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 Corrected by Sts
 Examined by Sts



2

PIONEER IRON COMPANY

FURNACE DEPARTMENT

MISCELLANEOUS DATA 1911

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D E T A I L O F S T O C K U S E D

ORES	1 9 1 1					1 9 1 0						
	Per Cent Used	Tons	Lbs	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs	Price	Amount	Cost Per Ton
L a k e	.630	42380-1691		3.244	137472.89	4.071	.638	48734-1740		3.302	160900.31	4.327
" Over-run		595-1791		3.244	1932.78	.057						
Cliffs Shaft	.046	3046-1260		4.077	12419.07	.368	.006	476-1333		4.359	1412.99	.038
Clinton Silica	.148	10049-0998		1.467	14891.66	.441	.039	2973-1170		1.488	4424.53	.119
" Over-run		253-1778		1.467	372.32	.011						
Negaunee	.162	10940-1991		3.270	35770.35	1.058						
" Over-run		206-1231		3.270	675.25	.020						
Cambridge	.000	18-0000		3.523	63.43	.002	.005	354-1320		3.522	1248.90	.033
-North Lake	.000	49-0540		3.029	148.48	.004						
North Lake Silica	.001	76-0860		1.654	125.77	.004						
M a a s	.004	290-1600		3.173	922.58	.027	.284	21730-0939		3.474	74209.45	1.995
Lake Silica							.003	200-0000		1.513	302.60	.008
L u c y							.025	1920-1550		2.031	3901.68	.105
Pyrites Cinder	.009	582-1271		4.035	2350.02	.070					581.64	.015
Thawing Ore					390.56	.012					1363.87	.037
Bonuses account ore analysis					826.84	.025					551.15	.015
Penalties account ore analysis					272.51	.008					321.31	.009
Adjustment ore prices					280.82	.008						
TOTAL	100%	66378-0931		3.041	201847.97	5.978	100%	75882-1840		3.270	248116.13	6.670
L i m e s t o n e		2267-1740		1.311	2971.06	.088		2663-2080		1.355	3610.40	.097
C h a r c o a l (Bushels)		3246905		.0776	252067.28	7.465		3495805		.0722	252583.84	6.792

PIONEER IRON CO.
Furnace Department

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1911 AND 1910.

Production for the Year 1911	33769 Tons	Daily Average	93 TONS	Days Operated	363	Days Idle	2
Production for the Year 1910	37192 Tons	Daily Average	105 TONS	Days Operated	353	Days Idle	11
Tons Made Blast No. 1	212816						
Tons Made Blast No. 2	92667						

Acct. No.	Year 1911				Year 1910					
	Labor	Supplies	Total	Cost per Ton	Labor	Supplies	Total	Cost per Ton		
GENERAL EXPENSE:-										
Insurance										
Taxes		7173 24	7173 24	212		5598 88	5598 88	150		
Analysis	1911 1910	1170 70	2115 34	063	1031 78	1484 86	2516 64	068		
Central Office Expense	28 1/2%	4686 49	13321 24	395	7431 15	3791 54	11222 69	302		
Personal Injury Expenses		39 45	39 45	001						
Total		9579 39	13069 88	22649 27	671	8462 93	10875 28	19338 21	520	
MAINTENANCE:-										
Tracks & Yards		1445 14	668 46	2113 60	063	1529 97	523 40	2053 37	055	
Tristles & Docks		555 06	239 66	794 72	024	535 62	133 76	669 38	018	
Buildings		348 98	268 70	617 68	018	695 75	720 88	1416 63	038	
Machinery		140 29	142 99	283 28	008	268 45	52 54	320 99	009	
Tuyeres		151 20	112 72	263 92	008	149 81	651 93	801 74	022	
Relinings & Renewals			3382 20	3382 20	100		3721 50	3721 50	100	
Pig Iron Trucks, Coal & Ore Buggies		611 71	282 48	894 19	027	481 63	378 24	859 87	023	
Stacks						354 78	356 57	711 35	019	
Stoves		66 48	13 40	79 88	002	82 02	92 96	174 98	004	
Cleaning Up		1468 88	14 13	1483 01	044	1710 34	96 78	1807 12	049	
Sewer		419 12	12	419 24	012	441 41	71	442 12	012	
Dry Blast		338 94	110 22	449 16	013	180 54	361 10	541 64	015	
Total		5545 60	5235 08	10780 68	312	6430 32	7090 37	13520 69	364	
OPERATING:-										
Machinery		2354 75	1457 47	3812 22	113	2331 84	1323 46	3655 30	098	
Electric Light s & Wiring		150 40	222 32	372 72	012	166 37	374 39	540 76	015	
Bottom Fillers		4682 41	105 29	4787 70	142	4721 92	91 05	4812 97	129	
Top Fillers		1519 98		1519 98	045	1500 78		1500 78	040	
Handling Iron		5566 91	142 59	5709 50	169	6040 56	60 99	6101 55	164	
Handling Cinder		4442 94	1088 56	5531 50	164	4978 25	1108 40	6086 65	164	
Weighing & Grading Iron		711 75		711 75	021	711 75		711 75	019	
Founders, Keepers & Helpers		12193 52		12193 52	361	11862 26	11 41	11873 67	319	
Coal Forkers		8992 01	495 61	9487 62	281	9205 38	346 02	9551 40	257	
Casting Tools		721 40	734 52	1455 92	043	546 16	691 70	1237 86	033	
Sand And Clay		1940 69	361 23	2301 92	068	2260 07	356 17	2616 24	070	
Cleaning Stoves		354 80	330 96	685 76	020	668 36	183 45	851 81	023	
Central Power Expense		1820 69	237 69	2058 38	061	1746 85	296 44	2043 29	055	
Dry Blast		1551 18	413 90	1965 08	058	2573 25	906 98	3480 23	094	
Total		47003 43	5590 14	52593 57	1 558	49313 80	5750 46	55064 26	1 480	
STOCK USED:-										
Ore			201847 97	201847 97	5 978		248116 13	248116 13	6 670	
Charcoal			252067 28	252067 28	7 465		252583 84	252583 84	6 792	
Limestone			2971 06	2971 06	088		3610 40	3610 40	097	
Total			456886 31	456886 31	13 531		504310 37	504310 37	13 559	
DEPRECIATION:-										
New Construction							35115 00	35115 00	944	
Plant Account			33822 00	33822 00	1 000					
Improvement							2100 00	2100 00	057	
Equipment							1267 30	1267 30	034	
Appreciation of Inventory			63 10	63 10	002		66 67	66 67	002	
Total			33822 00	33822 00	1 002		38415 63	38415 63	1 033	
Total Cost on Yard			62128 62	514540 31	576668 93	17 077	64207 05	566442 11	630649 16	956
SHIPPING EXPENSES:-										
Fire Loss At Camps										
Freight Allowance		1911 1910								
Loading Cars		4316 Tons	11656 "							
Switching		" "	" "							
Total										
Loading Vessels		19855 "	18357 Tons							
Grand Total										
Construction Account not Charged Off										
Plant Account not Charged Off										
Improvement Account not Charged Off										

SUMMARY OF COST PER TON

	YIELD 1911				YIELD 1910			
	On Yard	On Cars	On Vessels	On Yard	On Cars	On Vessels	On Yard	On Vessels
Cost on Yard as above	17 077	17 077	17 077	16 956	16 956	16 956	50 2 1/2	49 0 1/2
Cost to Load as above		083	504	086	480	96 1/2	Coal	94 0 1/2
Total	17 077	17 160	17 581	16 956	17 042	17 436	150	Flux 160
Commission Expenses, Cleveland Office	350	350	350	350	350	350		Cost per Ton
Total Cost	17 427	17 510	17 931	17 306	17 392	17 786		For Labor
								1 949 1 781

Remarks:-
High charges to Central Office due to the Gladstone Plants being idle for a portion of the year.
The increased cost per ton for operating expenses is due to a lower production.
Dry Blast operated 242 days during 1911 and 353 1/2 days during 1910.

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COMPARATIVE STATEMENT OF ALCOHOL COST SHEETS FOR 1911 AND 1910

W. H. BROWN COMPANY, 1001 STATE STREET, CHICAGO, ILL. 60610

Production for the Year 1911	295336 Gallons	95%	Daily Average 809 Gallons	Days Operated 365	Days Idle 00
Production for the Year 1910	318181 Gallons	95%	Daily Average 872 Gallons	Days Operated 365	Days Idle 00

Acct. No.	Year 1911				Year 1910				
	Labor	Supplies	Total	Cost per Gallon	Labor	Supplies	Total	Cost per Gallon	
GENERAL EXPENSE:									
Insurance		5199 96	5199 96	018		5199 96	5199 96	016	
Taxes		5852 65	5852 65	020		5598 88	5598 88	018	
Analysis	1911 1910	785 47 402 71	1188 18	004	948 45	529 87	1478 32	005	
Central Office Expense	9.1% 10%	2713 44	1504 83	4218 27	014	2823 97	1494 00	4317 97	014
Personal Injury Expense		209 00	2862 55	3071 55	010	47 50	132 75	180 25	000
Total		3707 91	15822 70	19530 61	066	3819 92	12955 46	16775 38	053
MAINTENANCE:-									
Tanks & Stills		1572 19	2173 22	3745 41	013	2060 82	3069 66	5130 48	016
Condensers		6 61	61 15	67 76	000	24 16	69 64	93 80	000
Machinery		265 09	529 02	794 11	003	207 98	100 97	308 95	001
Fans and Motors						2 73	124 49	127 22	000
Smoke Mains		162 73	32 37	195 10	001	348 71	101 74	450 45	002
Buildings		214 09	142 98	357 07	001	216 15	223 39	439 54	002
D i t c h						19 80	21 61	41 41	000
Cleaning Up		347 06	14 13	361 19	001	353 83	3 78	357 61	001
Sewer		125 66	24 58	150 24	000	357 18		357 18	001
Tracks & Yard		195 03	83 32	278 35	001				
Total		2888 46	3080 77	5969 23	020	3591 36	3715 28	7306 64	023
OPERATING:-									
Superintendent		552 75		552 75	002	604 07		604 07	002
Stillmen		8918 69	352 10	9270 79	032	9183 42	205 99	9389 41	030
Condensermen		999 76	18 43	1018 19	003	1062 82	78 08	1140 90	003
Machinery		20 06	279 46	299 52	001	7 97	131 25	139 22	000
Electric Lamps & Wiring		157 78	369 97	527 75	002	139 14	372 64	511 78	002
Filter	1911 1910	467 83	242 58	710 41	002	3058 57	406 04	3464 61	011
Central Power Expense	30% 30.8%	3823 58	7050 83	10874 41	037	3617 38	12934 32	16551 70	052
Chemicals			976 95	976 95	003		2273 46	2273 46	007
Freight on Alcohol Returned							72 17	72 17	000
Total		14940 45	9290 32	24230 77	082	17673 37	16473 95	34147 32	107
Cost of Production		21536 82	28193 79	49730 61	168	25084 65	33144 69	58229 34	183
DEPRECIATION: Appreciation of Inventory									
Construction Account			55 02	55 02	000		54 33	54 33	000
Improvement Account							43380 00	43380 00	136
Plant Account			68770 70	68770 70	233		3335 22	3335 22	011
New Construction			8662 92	8662 92	029				
Total			77378 60	77378 60	262		46660 89	46660 89	147
Total Cost		21536 82	105572 39	127109 21	430	25084 65	79805 58	104890 23	330
SHIPPING EXPENSE:-									
Gallons Shipped	1911 1910	68432 1/2 58068							
Packages		274 42	2017 70	2292 12	034	116 98	1664 35	1781 33	031
Loading		89 71	34 48	124 19	002	79 49	93 01	172 50	003
Switching		3 30	1 90	5 20	000	3 52	2 67	6 19	000
Total		367 43	2054 08	2421 51	009	199 99	1760 03	1960 02	006
Total Cost on Cars		21904 25	107626 47	129530 72	439	25284 64	81565 61	106850 25	336
Construction Account Not Charged Off				26249 98				110417 66	
Improvement Account Not Charged Off				121449 06				90756 39	
Plant Account not Charged Off								Yield per Cord	
Smoke received from 70530 Cords During 1911				Yield	4.19				
Smoke received from 74909 Cords During 1910									425

Remarks:-

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1911 AND 1910.

Production for the Year 1911	6006900 Pounds	Daily Average 16454 Pounds	Days Operated 365	Days Idle Non
Production for the Year 1910	6471670 "	Daily Average 18229 "	Days Operated 355	Days Idle 10

Acct. No.	Year 1911				Year 1910					
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.		
GENERAL EXPENSE:-										
Taxes		853 13	853 13	014		666 53	666 53	010		
Analysis	1911	1910	894 78	462 47	1357 25	023	798 72	434 50	1233 22	019
Central Office Expense	10.2 %	8.4 %	3090 46	1668 71	4759 17	079	2404 21	1208 21	3612 42	056
Personal Injury Expense										
Total -			3985 24	2984 31	6969 55	116	3202 93	2309 24	5512 17	085
MAINTENANCE:-										
Buildings			80 61	56 84	137 45	002	30 14	81 35	111 49	002
Tanks & Stills			481 97	547 56	1029 53	017	51 31	11 45	62 76	001
Machinery			89 23	139 78	229 01	004	104 48	82 63	187 11	003
Dryer			227 23	176 09	403 32	007				
Tracks & Yard			54 09	31 30	85 39	002				
Cleaning Up			70 14		70 14	001	313 38	3 77	317 15	005
Triple Effect Evaporator Conveyor							70 11	23 03	93 14	002
Dry Floor							155 07	63 89	218 96	003
Piping							67 83	126 27	194 10	003
Lillie Apparatus							184 76	48 74	233 50	003
Pans							109 24	11 20	120 44	002
Smoke Mains							81	20 18	20 99	000
Fans & Motors							2 72	1 18	3 90	000
Total -			1003 27	951 57	1954 84	033	1089 85	473 69	1563 54	024
OPERATING:-										
Superintendent			630 45		630 45	010	501 30		501 30	007
Contractors			6886 07	70 00	6956 07	116	8416 11	23 96	8440 07	130
Weighing			695 03	45 47	740 50	012	771 33	62 72	834 05	013
Condensermen			999 76	18 43	1018 19	017	897 91	75 04	972 95	015
Machinery				200 76	200 76	003		148 42	148 42	002
Electric Lamps & Wiring	1911	1910	71 19	80 59	151 78	003	45 31	118 65	163 96	003
Central Power Expense	57 %	56.1 %	7234 59	13411 02	20645 61	344	6828 77	24438 37	31267 14	483
Handling Fuel			71 36	25 38	96 74	002	296 06	130 81	426 87	007
Fuel	1911	1910		2262 57	2262 57	038		2661 92	2661 92	042
Lime				9090 25	9090 25	151		10127 00	10127 00	157
Handling Acetate			457 14	92 85	549 99	009				
Stillmen			942 29	34 73	977 02	016				
Dryer			1578 30	15 37	1593 67	027				
Storage			3 60		3 60	000	54 45	41 75	96 20	001
Total -			19569 78	25347 42	44917 20	748	17811 24	37828 64	55639 88	860
Cost of Production			24558 29	29283 30	53841 59	897	22104 02	40611 57	62715 59	969
DEPRECIATION:-										
Construction				3354 30	3354 30	056		3617 52	3617 52	056
Improvement								2629 32	2629 32	041
Appreciation of Inventory				8 09	8 09	000		49 23	49 23	001
Plant Account				6504 67	6504 67	108				
Total -				9850 88	9850 88	164		6197 61	6197 61	096
Total Cost -			24558 29	39134 18	63692 47	061	22104 02	46809 18	68913 20	1.065
SHIPPING EXPENSE:-										
Pounds Shipped										
Sacks			1 80	872 38	874 18	014		198 67	198 67	003
Loading										
Switching										
Total -			1 80	872 38	874 18	014		198 67	198 67	003
GRAND TOTAL										
			24560 09	40006 56	64566 65	1.075	22104 02	47007 85	69111 87	1.068
Construction Account Not Charged Off					24953 98				12069 48	
Improvement Account Not Charged Off									23629 63	
Plant Account Not Charged Off					14588 26					

Cords received smoke from Yield

69621 3/4
87.2

75679
85.6

REMARKS:-

High charged to analysis and Central Office during 1911 due to the Gladstone Plants being idle for a portion of the year.

PIONEER IRON CO.
Furnace Department

STATEMENT OF FORMALDEHYDE COST SHEETS FOR THE YEARS 1910 AND 1911

11210

Production for the Year... 1911	1402690 Pounds	Daily Average... 3843 Pounds	Days Operated... 365	Days Idle... 00
Production for the Year... 1910	1380902 Pounds	Daily Average... 4172 Pounds	Days Operated... 331	Days Idle... 34

Acct. No.	38-40 Strength	Year... 1911				Year... 1910					
		Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound		
GENERAL EXPENSE:-											
	Taxes		385 65	385 65	0003		533 20	533 20	0003		
	Analysis	1911 1910	158 50 789 05	237 58	0002	176 08	101 82	277 90	0002		
	Central Office Expense	12% 12%	545 78	322 58	868 36	525 82	273 94	799 76	0006		
	Personal Injury Expense										
	Total		704 28	797 31	1491 59	0011	701 90	908 96	1610 85	0011	
MAINTENANCE:-											
	Buildings		8 75	22 12	30 87	0000	24 06	89 63	113 69	0001	
	Tanks & Stills		122 11	396 89	519 00	0004	244 39	627 87	872 26	0006	
	Machinery		33 40	94	34 34	0000	54 87	18 26	73 13	0001	
	Tracks & Yards		21 83	16 31	38 14	0001					
	Cleaning Up		27 50		27 50	0000	298 53	3 76	302 29	0002	
	Total		213 59	436 26	649 85	0005	621 85	739 52	1361 37	0010	
OPERATING:-											
	Superintendent		110 10		110 10	0001	102 58		102 58	0001	
	Stillmen		2428 75	5 28	2434 03	0017	2341 82	28 00	2369 82	0017	
	Machinery			30 05	30 05	0000		42 09	42 09	0000	
	Electric Lamps & Wiring	1911 1910	55 76 8 41	64 17	0000	17 99	32 92	50 91	0000		
	Central Power Expense	4% 3.5%	488 09	943 14	1431 23	0010	453 44	1627 16	2080 60	0015	
	Alcohol			78354 81	78354 81	0550		77454 98	77454 98	0561	
	Copper Netting			202 30	202 30	0001		625 60	625 60	0005	
	Freight on Formaldehyde Returned										
	Total		3082 70	79543 99	82626 69	0588	2915 83	79810 75	82726 58	0599	
	Cost of Production		4000 57	80777 56	84768 13	0604	4239 58	81459 23	85698 81	0620	
DEPRECIATION:-											
	Construction Improvement							2820 00	2820 00	0021	
	Appreciation of Inventory			4 85	4 85	0000		2380 32	2380 32	0017	
	Plant Account Not Charged Off			5354 50	5354 50	0038		9 74	9 74	0000	
	Total			5349 65	5349 65	0038		5190 58	5190 58	0038	
	Total Cost		4000 57	86127 21	90117 78	0642	4239 58	86649 81	90889 39	0658	
SHIPPING EXPENSE:											
	Pounds Shipped	1911 1910									
	Packages	1357979	1291417	11 53	9068 48	9080 01	0067	143 43	6912 33	7055 76	0055
	Loading	"	"	258 58	88 07	346 65	0003	259 38	297 50	556 88	0004
	Switching	"	"	10 33	8 33	18 66	0000	9 03	5 77	14 80	0000
	Total			280 44	9164 88	9445 32	0068	411 84	7215 60	7627 44	0055
	Total Cost on Cars			4281 01	95292 09	99563 10	0710	4651 42	93865 41	98516 83	0713
	Construction Account Not Charged Off								8259 84		
	Improvement Account Not Charged Off								7196 68		
	Plant Account Not Charged Off				10256 20						
	Gallons Alcohol used during 1911	197200 @ .397					Yield Per Gal			Yield Per Gallon	
	Gallons Alcohol used during 1910,	192390 @ .403					7.11			7.18	

Remarks:-
 Plant shut down 34 days during October and November of 1910 account of limited storage facilities.
 Plant operated to full capacity the equivalent of 248 days (68%)
 Larger production in 1911 with less days operating due to the use of larger contact bodies. 283 days

PIONEER IRON CO.
Furnace Department

ACTIVE STATEMENT OF ACETONE COST SHEETS FOR THE YEARS 1911 AND 1910

Production for the Year 1911	1577607 Pounds	Daily Average	4322 Pounds	Days Operated	365	Days Idle	00
Production for the Year 1910	1550071 Pounds ✓	Daily Average	4247 Pounds ✓	Days Operated	365 ✓	Days Idle	00

Acct. No.	Year 1911				Year 1910					
	Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound		
GENERAL EXPENSE:-										
Taxes		511 88	511 88	0003		399 91	399 91	0003		
Analysis	1910 719 54	1911 353 43	1072 97	0007	640 15	341 84	981 99	0006		
Central Office Expense	61 %	82 %	2493 51	1360 51	3854 02	0024	1915 27	989 22	2904 49	0019
Personal Injury Expenses			2 50	2 50	0000		80 00	80 00	0000	
Total			3213 05	2228 32	5441 37	0034	2555 42	1810 97	4366 39	0028
MAINTENANCE:-										
Buildings			136 77	68 04	204 81	0001	46 09	94 59	140 68	0001
Tanks & Stills			192 95	240 30	433 25	0003	196 82	175 49	372 31	0002
Condensers										
Machinery			49 14	18 90	68 04	0001	176 72	170 35	347 07	0002
Ovens And Kettles			229 04	530 12	759 16	0005	338 75	893 25	1232 00	0008
Retorts			1006 73	461 34	1468 07	0009	474 33	261 12	735 45	0005
Retort Track			126 84	51 46	178 30	0001	18 45	19	18 64	0000
Retort Pans & Cars			350 69	490 63	841 32	0005	54 99	224 57	279 56	0002
Tracks & Yards			71 58	26 70	98 28	0001				
Cleaning Up			36 72		36 72	0000	301 85	3 76	305 61	0002
Piping							1 86	27 73	29 59	0000
Total			2200 46	1837 49	4037 95	0026	1609 86	1851 05	3460 91	0022
OPERATING:-										
Superintendent			506 70		506 70	0003	392 05		392 05	0003
Firemen			8372 88	86 49	8459 37	0054	9415 48	195 04	9610 52	0062
Removing Refuse			1653 42	415 09	2068 51	0013	1201 76	239 28	1441 04	0009
Machinery			5 35	137 86	143 21	0001		221 25	221 25	0001
Electric Lamps & Wiring 1910		1911	68 91	80 19	149 10	0001	42 69	145 36	188 05	0001
Central Power Expense	3%	3%	386 63	701 73	1088 36	0007	379 60	1325 63	1705 23	0011
Handling Fuel 1911		1910	568 07	387 96	956 03	0006	994 19	261 09	1255 28	0008
Fuel 2280 @ 2.759		1914 @ 2.998		6208 58	6208 58	0039		6936 60	6936 60	0045
Chemicals				612 00	612 00	0004		800 45	800 45	0005
Acetate				117870 56	117870 56	0747		136614 27	136614 27	0882
Acetone Oils Recovered				1483 91	1483 91	0009		1095 99	1095 99	0007
Stillmen			1593 11	2 70	1595 81	0010				
Freight on Returned Acetone								2 76	2 76	0000
Ovens & Kettles								37 40	37 40	0000
Total			13155 07	125019 25	138174 32	0876	12425 77	145683 14	158108 91	1020
Cost of Production			18568 58	129135 06	147703 64	0936	16591 05	149345 16	165936 21	1070
DEPRECIATION:-										
New Construction										
Plant Account Improvement				5842 54	5842 54	0038		4661 64	4661 64	0030
Appreciation of Inventory				4 85	4 85	0000		34 87	34 87	0000
Total				5837 69	5837 69	0038		4626 77	4626 77	0030
Total Cost			18568 58	134972 75	153541 33	0974	16591 05	153971 93	170562 98	1100
SHIPPING EXPENSE:-										
Packages	1911 1627285	1910 1684636 Lbs.	941 22	5584 01	6525 23	0040	621 44	6659 86	7281 30	0043
Loading	"	"	309 15	117 11	426 26	0003	324 31	455 18	779 49	0005
Switching	"	"	10 11	8 81	18 92	0000	15 09	10 42	25 51	0000
To			1260 48	5709 93	6970 41	0044	960 84	7125 46	8086 30	0052
TOTAL COST ON CARS			19829 06	140682 68	160511 74	1018	17551 89	161097 39	178649 28	1152
Plant Account not Charged Off					36583 88					
Improvement Account not Charged Off								32334 05		

Remarks:- Acetate Used 8409385 Lbs. @ 1.402 8880510 Pounds # ✓
Yield Based on 80% Acetate 18 1/4
Yield based on 82% Acetate 17 1/2 ✓
Yield based on 78% Acetate 17 1/2 ✓
Acetone Oils Recovered 336539 " @ .0044 249090 Pounds ✓
#Charged at \$1.53 ✓

Pots & Kettles operated to full capacity 105 days 352.8 days ✓
Retorts operated to full capacity (Based on 9 Retorts) 273.6 days (75%) (Based on 6 Retorts) 343.9 days ✓
Started operating Retorts in place of Pots & Kettles during May 1911.
Increased yield due to operating Retorts in place of Pots & Kettles.
Increase in Central Office charges due to the Gladstone Plants being idle for a portion of the year.

PIONEER IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF ACETIC ACID COST SHEETS FOR THE YEARS 1911 AND 1910.

7

Production for the Year 1911 1561229 Pounds 100% Daily Average 6863 Pounds Days Operated 230 1/2 Days Idle 134 1/2
 Production for the Year 1910 656128 1/2 Pounds 100% Daily Average 3771 Pounds Days Operated 174 1/2 Days Idle 101 1/2

Acct. No.	Year 1911				Year 1910						
	Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound			
GENERAL EXPENSE:-											
Taxes		511 88	511 88	033							
Analysis	1911 373 10	1910 185 11	558 21	035	168 98	63 87	232 85	036			
Central Office Expense	4 1/2% 1293 38	1 1/2% 764 11	2057 49	130	547 45	280 42	827 87	126			
Personal Injury Expenses		2 00	2 00	000							
	Total	1666 48	1463 10	3129 58	198	716 43	344 29	1060 72	162		
MAINTENANCE:-											
Buildings	152 89	339 45	492 34	031	10 61	62 79	73 40	011			
Tanks & Stills	700 24	2568 31	3268 55	207	188 11	255 34	443 45	068			
Conveyor					39 34	5 89	45 23	006			
Piping					96 29	157 53	253 82	039			
Machinery	331 39	824 81	1156 20	073	99 29	135 42	234 71	036			
Sewer	1 80		1 80	000	1 49	07	1 56	000			
Tracks & Yards	90 69	133 44	224 13	014							
Cleaning Up	47 91		47 91	003	120 75	3 77	124 52	019			
	Total	1324 92	3866 01	5190 93	328	555 88	620 81	1176 69	179		
OPERATING:-											
Superintendent	1800 00		1800 00	114	1350 00		1350 00	206			
Stillmen	3006 05	102 38	3108 43	197	2044 73	63 53	2108 26	321			
Removing Refuse	290 82	145 36	436 18	028	162 00	71 06	233 06	036			
Machinery		104 35	104 35	007		58 46	58 46	009			
Electric Lamps & Wiring	1911 53 49	1910 64 56	118 05	007	31 09	65 54	96 63	015			
Central Power Expense	2 1/2% 272 89	1% 517 84	790 73	050	121 94	434 39	556 33	085			
Handling Acetate	302 62		302 62	019	117 19		117 19	018			
Acetate of Lime		46279 10	46279 10	2.926		19503 68	19503 68	2 972			
Sulphuric Acid		11354 48	11354 48	718		6055 59	6055 59	923			
Chemicals		119 04	119 04	007		81 95	81 95	012			
	Total	5725 87	58687 11	64412 98	073	3826 95	26334 20	30161 15	4 597		
Cost of Production		8817 27	64016 22	72733 49	4.599	5099 26	27299 30	32398 56	4 938		
DEPRECIATION:-											
Plant Account		4343 38	4343 38	274							
New Construction						2700 00	2700 00	411			
Improvement Account						21 00	21 00	003			
Appreciation of Inventory		4 85	4 85	000							
	Total	4338 53	4338 53	274		2679 00	2679 00	408			
	Total Cost	8817 27	68354 75	77072 02	4 873	5099 26	29978 30	35077 56	5 346		
SHIPPING EXPENSE:-											
Packages	1911 1517896	1910 531640 1/2	Lbs.	881 31	5299 31	6180 62	407	269 09	1400 99	1670 08	314
Loading	"	"	"	406 94	178 69	585 63	039	215 19	76 70	291 89	055
Switching	"	"	"	14 09	10 65	24 74	002	5 73	4 36	10 09	002
	Total	1302 34	5488 65	6790 99	429	490 01	31482 05	1972 06	301		
Total Cost on Cars, 1910											
" " " " 1911		10119 61	73843 40	83863 01	5 302	5589 27	31460 35	37049 62	5 647		
Plant Account not Charged Off				35002 54							
New Construction not Charged Off				11062 62							
Improvement Account not Charged Off								39191 74			
Acetate Used:-											
Yield based on 78% Acetate	1911 2802219	1910 1206087	Lbs.	521				54 1/2			
Yield based on 80% Acetate				532				55 6			
Yield based on 82% Acetate				548				57 1/2			
Sulphuric Acid	913-1885 tons	715734	"								
Average price of Acetate used											
Average price of Sulphuric Acid used				1.651				1 617			
Amount of Acid used per 100 lbs. of Acetate				12 424				16 924	59.3		

Remarks:-
1910:- Plant was operated 9 months during the year

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PIONEER IRON COMPANY.
FURNACE DEPARTMENT.

Ans.

ANNUAL SULPHURIC ACID COST SHEET For the Month of YEAR 1911

Production 1 Month Daily Average Days Operated Days Idle
Production Months 2343-0519 Net tons Daily Average 16-0773 net tons Days Operated 143 Days Idle 111
66 DEGREE.

	Labor	Supplies	Total	Total ...Months	Cost per NET. TON	
					1 Mo	... Mos
GENERAL EXPENSE:-						
Insurance						
Taxes		1100 00	1100 00 ✓			470
Analysis	230 36	128 86	359 22 ✓			153
Central Office Expense 2 1/2 %	770 42	470 47	1240 89 ✓			529
Personal Injury Expense						
Total	1000 78	1699 33	2700 11 ✓			1 152 ✓
MAINTENANCE:-						
Buildings	423 65	350 96	774 61			330
Tracks & Yard	79 54	49 85	129 39			055
Machinery	124 25	41 03	165 28			071
Cleaning Up	86 12		86 12			037
Stokers	51	5 61	6 12 X			003
Wedge Furnace	146 50	182 87	329 37			141
Fans	25 21	35 39	60 60 X			026
Piping	82 42	328 66	411 08			175
Towers	47 26	32 66	79 92			034
Tanks	49 24	18 22	67 46			028
Total	1064 70	1045 25	2109 95 ✓			900 ✓
OPERATING:-						
Superintendent	1213 86		1213 86			518
Nitre-men	813 15	16	813 31			347
Chambermen	869 02	96 77	965 79			412
Oremen	707 75	41	708 16			302
Burnermen	777 11	273 66	1050 77			443
Removing Cinders	59 97	5 49	65 46			028
Storing	116 83	115 50	232 33			099
Machinery	53 10	68 34	121 44			052
Electric Lamps & Wiring	52 18	93 78	145 96			062
Central Power Expense .6 %	95 65	151 49	247 14 ✓			105
Handling Fuel	17 34		17 34			007
Fuel		632 37	632 37			270
Nitrate of Soda		6471 35	6471 35			2 763
Pyrites		15665 37	15665 37			6 685
Pyrites Cinder Recovered		2213 63	2213 63			945
Total	4775 96	21361 06	26137 02 ✓			11 153 ✓
Cost of Production	6841 44	24105 64	30947 08 ✓			13 205 ✓
Idle Expense	981 13	4869 60	5850 73 X			2 497
DEPRECIATION:-						
Plant Account		266 88	266 88			114
New Construction		7600 02	7600 02			3 244
Appreciation on Inventory		19 42	19 42			008
Total -		7847 48	7847 48 ✓			3 350 ✓
Total Cost	7822 57	36822 72	44645 29 ✓			17 052 ✓
SHIPPING EXPENSE:-						
Tons shipped						
Dep. on Tank Cars 1325-0683		342 00	342 00			258
Package	22 17	75 68	97 85			074
Loading " "	23 63	7 40	31 03			023
Switching " "	12 68	9 23	21 91			017
Total	58 48	434 31	492 79 ✓			211
TOTAL COST ON CARS 1 MONTH						
TOTAL COST ON CARS MONTHS	7881 05	37257 03	45138 08 ✓			19 263 ✓

Pounds Pyrites used per net ton 66 D. Acid 1857
Pounds Nitrate of Soda per net ton 66 D. Acid 115
Pounds Sulphur per net ton 66 D. Acid 819
Percent Sulphur in Pyrites used 44.42
Yield in pounds of Acid per pound Pyrites 1.08
Yield in pounds of Acid per pound of Sulphur 2.44

Plant Account Not Charged Off 7606.19
New Construction Not Charged Off 164755.22
Pyrites Used 1942-1020 tons @ 8.065
Cinders Recovered 582-1271 tons @ 3.80
Nitrate of Soda Used 270129 lbs. @ 2.396 cwt.
Coal used (Yough) 81 tons)
" " (Slack) 177-0610 tons @ 2.451
Made by 3145
Figured by 3145
Copied by 3145
Corrected by 3145
Examined by 3145

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PIONEER IRON COMPANY.
 FURNACE DEPARTMENT.

Ans.

For the Month of _____ YEAR _____ 1911.

ANNUAL STATEMENT SULPHURIC ACID IDLE EXPENSE.

H.N.CO., 112054

Production 1 Month	Daily Average	Days Operated	Days Idle
ProductionMonths	Daily Average	Days Operated	Days Idle

	Labor	Supplies	Total	Total ...Months	Cost per.....	
					1 MoMos
GENERAL EXPENSE:-						
Taxes		162 25	162 25	✓		
Analysis	57 17	42 63	99 80	✓		
Central Office Expense .1%	205 09	280 85	485 94	✓		
Total -	262 26	485 73	747 99	✓		
MAINTENANCE:-						
Buildings	6 97	9 74	16 71			
Tracks & Yard	42 39	14 16	56 55			
Cleaning Up	53 81	1 28	55 09			
Machinery	52 60	335 20	387 80			
Wedge Furnace	6 91	29 88	36 79			
Fans		3 15	3 15			
Piping	65 59	86 40	151 99			
Towers	18 06	599 33	617 39			
Tanks	21 22	1 10	22 32			
Total -	267 55	1080 24	1347 79	✓		
OPERATING:-						
Superintendent	383 32		383 32			
Nitre-men	40 18		40 18			
Chamber-men	3 70		3 70			
Burnermen	2 00		2 00			
Removing Cinders	13 45	4 06	17 51			
Electric Lamps & Wiring		39 73	39 73			
Central Power Expense .1%	7 70	13 18	20 88	✓		
Machinery	97	14 52	15 49			
Total -	451 32	71 49	522 81	✓		
DEPRECIATION:-						
Plant Account		698 80	698 80			
New Construction		2533 34	2533 34			
Total -		3232 14	3232 14	✓		
GRAND TOTAL	981 13	4869 60	5850 73	X		

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PIONEER IRON COMPANY.
 FURNACE DEPARTMENT.

For the Month of _____ YEAR 1911.

ANNUAL SODIUM ACETATE COST SHEET.

Production 1 Month	Daily Average	Days Operated	Days Idle
Production _____ Months	Daily Average	Days Operated	Days Idle

	Labor	Supplies	Total	TotalMonths	Cost per.....	
					1 MoMos
GENERAL EXPENSE:-						
Insurance						
Taxes						
Analysis	9 50	8 56	18 06	✓		
Central Office Expense 00 %	29 86	28 05	57 91	✓		
Personal Injury Expense						
Total -	39 36	36 61	75 97	✓		
MAINTENANCE:-						
Building	5 40	60	6 00			
Tanks & Stills	16 12	30	16 42			
Gas Producer		56 45	56 45			
Machinery	25 98	63 20	89 18			
Piping	1 95	10 79	12 74			
Sewer	11 59		11 59			
Tracks & Yard	3 84	1 28	5 12			
Cleaning Up	4 84		4 84			
Total -	69 72	132 62	202 34	✓		
OPERATING:-						
Firing	273 90		273 90			
Stillmen	71 09	72	71 81			
Removing Refuse	17	1 10	1 27			
Machinery		32 90	32 90			
Electric Lamps & Wiring	4 37	10 18	14 55			
Central Power Expense .2%	49 61	34 85	84 46	✓		
Fuel		455 00	455 00			
Acetic Acid		986 13	986 13			
Total -	399 14	1520 88	1920 02	✓		
Total Cost -	508 22	1690 11	2198 33	✓		

New Construction Not Charged Off 23823 56

Fuel 78 tons Coke @ \$5.834

Acetic Acid - 62021 # 28% Crude @ \$1.59 per owt.

Test Run - No production Crystallized Acette account filter not installed.

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ANNUAL COMPARATIVE STATEMENT OF SPECIAL CHEMICAL PRODUCTS FOR THE YEARS 1911 AND 1910

Acct. No.	Production for the Year		Daily Average		Days Operated		Days Idle			
	1911	1910	1911	1910	1911	1910	1911	1910		
			Year 1911		Year 1910					
			Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
	GENERAL EXPENSE:-									
	Taxes									
				170 63	170 63			133 03	133 03	
			316 20	154 56	470 76		273 05	617 82	890 87	
			1129 76	631 73	1761 49		813 07	408 27	1221 34	
			Total		1445 96	956 92	2402 88	1086 12	1159 12	2245 24
	MAINTENANCE:-									
			9 93	47 88	57 81		11 33	49 41	60 74	
			399 34	667 75	1067 09		67 77	86 50	154 27	
							25 16	57 04	82 20	
				7 95	7 95		116 04	238 50	354 54	
			44 56	47 93	92 49		17 60	81 81	99 41	
			3 84	1 28	5 12					
			4 87		4 87					
							28 90	71 31	100 21	
			Total		462 54	772 79	1235 33	266 80	584 57	851 37
	OPERATING:-									
			3402 74		3402 74		4880 93		4880 93	
			2083 58	67 00	2150 58		1463 21	16 56	1479 77	
			12 05	25 34	37 39		3 16	67 45	70 61	
							2 36	6 81	9 17	
			26 92	15 01	41 93		10 84	69 52	80 36	
			177 04	324 79	501 83		156 41	582 01	738 42	
			37 79	8 52	46 31					
				299 89	299 89					
				4413 36	4413 36			2118 05	2118 05	
				26956 70	26956 70			32269 30	32269 30	
				164 77	164 77			41 72	41 72	
				2038 88	2038 88			1486 65	1486 65	
				1571 40	1571 40			1252 31	1252 31	
				1483 91	1483 91			1095 99	1095 99	
				16 75	16 75			12 45	12 45	
				212 11	212 11					
			169 92	1 18	171 10					
								271 52	271 52	
			Total		5910 04	37529 61	43509 65	6516 91	39290 34	45807 25
			Cost of Production		7818 54	39329 32	47147 86	7869 83	41034 03	48903 86
	DEPRECIATION:-									
				1637 67	1637 67					
								1211 28	1211 28	
				1 62	1 62			19 46	19 46	
			Total		1636 05	1636 05		1191 82	1191 82	
			Total Cost		7818 54	40965 37	48783 91	7869 83	42225 85	50095 68
	SHIPPING EXPENSE:-									
			522 19	3324 00	3846 19		320 34	3057 47	3377 81	
			172 17	62 06	234 23		156 55	215 88	372 43	
			4 01	3 32	7 33		3 57	2 48	6 05	
			Total		698 37	3389 38	4087 75	480 46	3275 83	3756 29
			Total Cost on Cars		8516 91	44354 75	52871 66	8350 29	45501 68	53851 97
			Blant Account not Charged Off				13192 52			
			New Construction Account not Charged Off							
			Improvement Account Not Charged off						11916 45	

Alcohol Used	✓ 67961 gals. @	.397	80000 1/2 Gals. @	.403
Acetate Used	✓ 12365 Lbs. @	1.332	2740 Lbs. @	1.523 Cwt.
Formaldehyde Used	✓ 27464 " @	.0742	19755 " @	.0753
Acetone Used	✓ 13502 " @	.1164	10834 " @	.1156
Acetone Oils Used	✓ 336539 " @	.0044	249090 " @	.0044
Acetic Acid Used	✓ 6494 " @	.032		
Sulphuric Acid	✓ 750 " @	8.593 per net ton,		

Remarks:-

Fuel Used:-
1911 106 tons @ 2.829
1910

High charged to Central Office in 1911 due to Gladstone Plants being idle during a portion of the year.

Made by
Figured by
Checked by
Reviewed by

PRODUCT	Unit	1911		1910	
		Made	Shipped	Made	Shipped
Methyl Acetone A	Gals.	6404	6404	307½	307½ ✓
Methyl Acetone AA	"	13608½	13608½	18698	18698 ✓
Refined Light Acetone Oils	Lbs.	245197	245197	215107	215107 ✓
Superior Spirits	"	3882	3882	4807	4807 ✓
Creosote Oil	Gals.	8339	8339	1384	1384 ✓
Special Solvent No. 1	"	3700	3700	3091	3091 ✓
Special Solvent No. 11	"	8652	8652	8134	8134 ✓
Special Solvent No. 12	"			3705	3705 ✓
Diamond Spirits	"	876	876	6603	6603 ✓
Perfumed Spirits	"	2556	2556	2415	2415 ✓
Soap Spirits	"	5	5	3547½	3547½ ✓
Denaturing Alcohol	"	24138	24138	32902½	32902½ ✓
Formin	Lbs.	6928	8358	5561 ✓	4731 ✓
Methyl Acetate	Gals.	1139	1139	72	72 ✓
Caustic Soda	Lbs.			14040	14040 ✓
Refined Tar	Gals.	819½	819½		
Anti Fly	"	85	85	310½	310½ ✓
Chloroform	Lbs.	14207	14207	1200	1200 ✓
Special Spirits No. 1	Gals.	3557½	3557½	600	600 ✓
Special Solvent No. 30	"	100	100		
Amyl Acetate	"	1410	1410		
Formin Returned	Lbs.		1200		1229 ✓
Creosote Oil Returned	Gals.		47		85 ✓
Heavy Acetone Oils	Lbs.	65622	65622	26951	26951 ✓
Special Solvent No. 31	Gals.	105	105		
Special Solvent No. 32	"	5	5		
Special Solvent No. 34	"	2695	2695		
Amyl Acetate Substitute	"	125	125		
No. 8 Alcohol	"	1288	1288		
Chloroform Returned	Lbs.		1100		
Amyl Acetate Sub. No. 2	Gals.	475	475		
Superior Spirits Returned	Lbs.		700		
Amyl Acetate Sub. A	Gals.	5	5		
Special Solvent No. 37	"	5	5		
Special Denaturing Alcohol	"	2000	2000		
Diamond Spirits Returned	"		15		
Methyl Acetone AAA	"	150	150	153	153 ✓
Special Solvent No. 23	"			51	51 ✓
Special Solvent No. 25	"			5	5 ✓
Special Solvent No. 29	"			5	5 ✓
Pyroligneous Acid	"			51	51 ✓
Special Solvent No. 27	"			104	104 ✓
Denaturing Oil	"			200	200 ✓
Denaturing Alcohol Returned	"				725 ✓
Methyl Acetone AA Returned	"				658½ ✓
Alcohol No. 5	"	100	100		
Alcohol No. 10	"	100	100		

10

W. M. S.
NOTED

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ANNUAL COMPARATIVE LABOR STATEMENT FOR THE YEARS, 1911 AND 1910

Tons per man per day	1911	1910	No. of Men	No. Days	Rate per day		No. of Men	No. Days	Rate per day	
	1,24	1,35	1910	1911	Earnings	1911	1910	Earnings	1911	1910
FURNACE:-										
Founders	2	2	2	732	06	4 95	4 75			
Keepers	2	2	2	730	5	1789	70	2 45	2 45	
Helpers	8	9	9	3196	8	6756	44	2 11	2 11	
Coal Forkers	12	12	12	4253	9	8933	14	2 10	2 10	
Bottom Fillers	2	2	2	735	0	1476	02	2 00	2 00	
Scale Car Motorman	2	2	2	726	4	1592	05	2 20	2 20	
Coal Car Motorman	2	2	2	725	8	1524	18	2 10	2 10	
Hoistman	2	2	2	723	6	1529	98	2 11	2 10	
Iron Handlers	7	6	6	2349	7	4057	76	1 85	1 85	
Cinder Snappers	7	6	6	2172	1	4057	27	2 95	2 94	
Blowing Engine Engineers	2	2	2	730	6	1551	18	2 34	2 35	
Dry Blast Engineers	3	3	3	662	3	711	75	1 95	2 46	
Iron Grader	1	1	1	365	0	900	00	2 46	2 35	
Laboratory Boy	1	1	1	0				2 27	2 29	
Stove Tender	1	0	0					2 18	2 12	
Total	54	52	52	18471	7	42113	49	2 27	2 29	
Prop. Central Power Exp.	2	2	2	832	9	1820	69	2 18	2 12	
Prop. Misc. Labor	16	15	15	5797	2	1324	61	2 28	2 22	
Prop. Central Office Exp.	4	5	5	2030	2	8634	87	4 25	4 42	
Total as per Cost Sheet	76	77	77	27132	0	65810	66	2 42	2 40	
ALCOHOL PLANT:-										
Superintendent			1	109	7	552	75	5 04	4 60	
Stillmen	11	10	10	4133	5	8828	56	2 13	2 16	
Coopers			1	121	1	269	41	2 22	2 21	
Condensermen	1	1	1	365	0	748	25	2 05	2 05	
Filter Cartmen	1	0	0					1 95		
Filter Pumpmen	2							2 05		
Total	15	11	11	4729	3	10398	97	2 19	2 10	
Prop. Central Power Exp.	4	4	4	1748	4	3823	58	2 18	2 15	
Prop. Misc. Labor	7	6	6	1832	8	4190	10	2 28	2 22	
Prop. Analysis	1	1	1	63	1	778	14	12 33	12 33	
Prop. Central Office Exp.	2	1	1	636	8	2713	46	4 26	4 42	
Total as per Cost Sheet	29	24	24	9010	4	21904	25	2 43	2 49	
ACETATE PLANT:-										
Dryermen			1	206	5	443	97	2 15		
Superintendent			1	124	8	630	45	5 05	4 62	
Evaporator Men			1	168	0	360	30	2 14		
Contractors	10	8	8	3165	2	7202	89	2 27	2 38	
Laborers	1	1	1	520	2	1106	79	2 12		
Condensermen	1	1	1	365	0	748	25	2 05	2 05	
Stillmen	2	2	2	98	5	207	53	2 11		
Total	11	14	14	4648	2	10700	18	2 30	2 41	
Prop. Central Power Exp.	9	9	9	3306	6	7234	59	2 18	2 15	
Prop. Misc. Labor	5	3	3	1166	4	2648	67	2 28	2 24	
Prop. Analysis	1	1	1	72	0	858	16	12 31	12 42	
Prop. Central Office Exp.	1	1	1	725	4	3090	49	4 26	4 42	
Total as per Cost Sheet	25	28	28	9916	6	24560	09	2 47	2 44	
FORMALDEHYDE PLANT:-										
Superintendent			3	21	6	110	10	5 09	4 68	
Stillmen	3	3	3	1087	5	2426	78	2 23	2 22	
Cooper	1	1	1					2 22		
Total	3	3	3	1109	1	2536	88	2 28	2 25	
Prop. Central Power Exp.				222	7	488	09	2 10	2 13	
Prop. Misc. Labor				233	9	553	47	2 36	2 23	
Prop. Analysis				12	8	156	79	12 25	12 08	
Prop. Central Office Exp.				129	0	545	78	4 23	4 36	
Total as per Cost Sheet	3	4	4	1707	5	4281	01	2 51	2 48	
ACETONE PLANT:-										
Superintendent			1	99	9	506	70	5 07	4 63	
Stillmen	12	10	10	741	8	1608	19	2 16		
Firemen	1	1	1	365	7	833	99	2 11	2 12	
Coopers	1	1	1	365	7	813	45	2 22	2 22	
Coal & Refuse Cartmen	2	2	2	726	9	1369	61	1 88	1 95	
Coal & Refuse Cartmen Helper	1	0	0					1 80		
Total	16	15	15	5875	1	12636	94	2 15	2 12	
Prop. Central Power Exp.	3	4	4	177	4	386	63	2 18	2 16	
Prop. Misc. Labor	3	4	4	1577	2	3598	75	2 28	2 23	
Prop. Analysis	1	1	1	57	8	713	25	12 34	12 49	
Prop. Central Office Exp.	1	1	1	590	4	2493	49	4 22	4 44	
Total as per Cost Sheet	21	21	21	8277	9	19829	06	2 39	2 34	
ACETIC ACID PLANT:-										
Superintendent	1	1	1	365	0	1800	00	4 93	5 04	
Stillmen	3	3	3	1355	1	3026	16	2 23	2 22	
Coopers	1	1	1	391	7	864	21	2 21	2 15	
Total	5	5	5	2111	8	5690	37	2 69	2 77	
Prop. Central Power Exp.	1	1	1	124	7	272	89	2 18	2 19	
Prop. Misc. Labor	2	3	3	1051	9	2393	59	2 28	2 25	
Prop. Analysis				28	9	369	37	12 78	12 30	
Prop. Central Office Expense	1	1	1	304	4	1293	39	4 24	4 36	
Total as per Cost Sheet	8	9	9	3621	7	10019	61	2 76	2 70	
SPECIAL CHEMICAL PRODUCTS:-										
Chemists	2	1	1	457	0	2502	74	5 47	6 11	
Coopers	2	3	3	153	6	342	05	2 22	2 22	
Stillmen	2	3	3	1017	7	2152	65	2 11	2 15	
Laboratory Boy	1	1	1	365	0	900	00	2 46	2 47	
Total	6	5	5	1993	3	5897	44	2 96	3 62	
Prop. Central Power Exp.				79	6	177	04	2 22	2 03	
Prop. Misc. Labor				424	3	999	92	2 35	2 30	
Prop. Analysis				25	3	312	75	12 36	12 04	
Prop. Central Office Exp.				266	9	1129	76	4 23	4 46	
Total as per Statement	7	8	8	2789	4	8516	91	3 05	3 47	
KILN PLANT:-										
Colliers	5	5	5	1828	0	4055	32	2 21	2 18	
Whitewashers	2	2	2	634	5	1237	24	1 95	1 95	
Peckers	20	18	18	5186	9	14313	10	2 75	2 74	
Pecker Foreman	1	1	1	302	7	867	75	2 86	2 87	
Cleaners & Screeners	3	3	3	988	2	1895	46	1 91	1 92	
Braze Cartman	2	2	2	648	5	1266	48	1 95	1 75	
Total	33	31	31	9588	8	23635	35	2 46	2 45	
Prop. Miscellaneous Labor				788	2	1786	76	2 27	2 23	
Total	33	33	33	10377	0	25422	11	2 45	2 44	
SULPHURIC ACID PLANT:-										
Superintendent	1	1	1	255	0	1597	18	6 26		
Chambermen	1	1	1	341	5	635	96	2 44		
Burnermen	1	1	1	339	6	777	06	2 28		
Oramen	1	1	1	345	3	628	09	1 81		
Nitremen	1	1	1	401	1	747	80	1 86		
Total	5	5	5	1682	5	4586	09	2 72		
Prop. Central Power Exp.				45	8	103	35	2 25		
Prop. Misc. Labor	2	2	2	843	8	1945	25	2 31		
Prop. Analysis				23	5	285	01	12 12		
Prop. Central Office Exp.				217	4	961	35	4 42		
Total as per Cost Sheet	8	8	8	2813	0	7881	05	2 80		
WOOD REFORMS:-										
Firemen	2	1	1	197	6	420	75	2 12		
Loading & Drawing	1	1	1	66	7	118	96	1 78		
Total	3	2	2	264	3	539	71	2 04		
Prop. Misc. Labor	2	2	2	562	4	1340	69	2 37		
Total	5	4	4	826	7	1880	40	2 27		
SODIUM ACETATE PLANT:-										
Stillmen	1	1	1	13	6	27	86	2 04		
Firing				124	5	273	90	2 20		
Total	1	1	1	138	1	301	76	2 18		
Prop. Central Power Exp.				23	3	49	61	2 12		
Prop. Misc. Labor				48	3	117	62	2 43		
Prop. Analysis				8	8	9	37	11 21		
Prop. Central Office Exp.				6	8	29	86	4 39		
Total as per Cost Sheet	1	1	1	217	3	508	22	2 33		
OPERATING RENTED BUILDINGS:-										
Prop. Central Power Exp.				5	2	11	55	2 00		
Prop. Misc. Labor				298	1	695	60	2 33		
Total	1	1								

PIONEER IRON CO.
Furnace Department.

STATEMENT OF SHOP LABOR, 1911.

MACHINE SHOP

<u>Month</u>	<u>Pay Roll</u>	<u>Supplies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Cost Per Hour</u>
Jan.	1967.59	39.96	2007.55	7723	.2599
Feb.	1942.91	87.64	2030.55	7875	.2578
March	2062.42	76.94	2139.36	8323	.2570
April	1813.40	76.43	1889.83	7234	.2612
May	1618.17	65.48	1683.65	6269	.2685
June	1699.22	78.06	1777.28	6564	.2700
July	1840.68	79.24	1919.92	7205	.2526
Aug.	2053.28	96.68	2149.96	8016	.2682
Sept.	1877.23	69.44	1946.67	7316	.2661
Oct.	1970.92	116.03	2086.95	7799	.2676
Nov.	1646.29	60.69	1706.98	6348	.2689
Dec.	1635.55	67.10	1702.65	6369	.2673
Total	22127.66	913.69	23041.35	87041	.2646

BLACKSMITH SHOP

Jan.	127.61	10.43	138.04	518	.2665
Feb.	119.97	16.63	136.60	485	.2816
March	132.46	12.19	144.65	538	.2688
April	126.96	15.90	142.86	519	.2752
May	135.16	12.91	148.07	555	.2667
June	119.64	15.83	135.47	471	.2868
July	130.72	14.68	145.40	525	.2770
August	136.26	12.14	148.40	558	.2658
Sept.	122.53	14.70	137.23	499	.2750
Oct.	130.82	27.16	157.98	534	.2958
Nov.	122.07	29.57	151.64	501	.3026
Dec.	125.15	21.47	146.62	515	.2847
Total	1529.35	203.61	1732.96	6218	.2780

CARPENTER SHOP

Jan.	1744.49		1744.49	6894	.2530
Feb.	1613.35		1613.35	6372	.2532
March	1092.00		1092.00	4287	.2547
April	1031.29		1031.29	3820	.2700
May	937.62		937.62	3456	.2713
June	1016.61		1016.61	3732	.2732
July	894.56		894.56	3302	.2709
Aug.	1032.56		1032.56	3856	.2677
Sept.	887.44		887.44	3274	.2710
Oct.	661.00		661.00	2324	.2844
Nov.	616.75	2.32	619.07	2190	.2825
Dec.	524.20		524.20	1795	.2920
Total	12051.87	2.32	12054.19	45302	.2660

PIONEER IRON COMPANY.
Furnace Department

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FEB 23 1912

Acc. Ans.

ANNUAL COMPARATIVE STATEMENT OF STABLE EXPENSES FOR THE YEARS 1911 AND 1910.

Production for the Year..... Daily Average..... Days Operated..... Days Idle.....
Production for the Year..... Daily Average..... Days Operated..... Days Idle.....

Acct. No.	Year 1911				Year 1910			
	Labor	Supplies	Total	Cost Per Horse Per Day	Labor	Supplies	Total	Cost per Horse Per Day
H a y		998 55	998 55	217		1034 46	1034 36	243
O a t s		1304 34	1304 34	284		1017 93	1017 93	239
Feed & Bran		43 60	43 60	009		22 10	22 10	005
C o r n		34 78	34 78	008		42 79	42 79	010
S t r a w		45 00	45 00	010		44 76	44 76	011
Oils & Grease		13 68	13 68	003		18 58	18 58	004
Combs & Brushes		5 85	5 85	001		8 15	8 15	001
Shovels Brooms & Pails		5 25	5 25	001		7 41	7 41	001
Medicine & Veterinary Service	30 00	101 53	131 53	029		79 70	79 70	019
S h o e i n g	113 67	97 30	210 97	046	153 21	62 86	216 07	051
Repairs Carts Wagons & Sleighs	215 09	66 52	281 61	061	128 66	136 07	264 73	062
Repairs Harnesses	119 50	75 52	195 02	043	13 65	127 25	140 90	033
Repairs to Building	223 63	99 81	323 44	070	26 90	135 86	162 76	038
Electric Lamps & Wiring	5 16	6 93	12 09	003	78	12 35	13 13	003
Insurance		9 96	9 96	002		9 96	9 96	002
Barn Boss	120 00		120 00	027	120 00		120 00	028
Central Power Expense					6 00	14 87	20 87	005
Depreciation New Equipment		998 41	998 41	217				
TOTAL	827 05	3907 03	4734 08	1 031	449 20	2775 10	3224 30	755

Distribution:-

	No. Horses	No. Days		No. Horses	No. Days
<i>General</i> - On Cinder Carts <i>handling Cinder</i>	3	1095	✓	3	1095
<i>General</i> - On Braize Carts <i>Orange Cartmen</i>	2	730	✓	2	730
<i>General</i> - On Filter Work	1	304		1	304
<i>Acetone</i> - On Acetone Refuse <i>(Removing Refuse)</i>	2	730		2	696
	4	1408		4	1435
	1	315			
<i>Acetic Acid</i> - On Acetic Acid Refuse <i>Removing Refuse</i>	1	315			
TOTAL	13	4593		12	4260

Central Power Expense
Factor distribution of current at the farm too small to show charge
(see letter Feb 7 1912)

Statement will be revised next year so as to show more complete distribution figures.

17 1/2

PIONEER IRON COMPANY.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF LOCOMOTIVE CRANE EXPENSE
FOR THE YEAR 1911

Hours Worked	2962
Hours Idle	688
Total Hours	3650

Watchman	141.93
Engineer	639.78
Fireman	481.72
Repairs	419.17
Oils & Grease	35.61
Fuel 96 tons $\frac{3}{4}$ Coal @ \$2.84	272.67 ✓
Depreciation	1593.00
Total	3583.88 ✓

Rate per Hour Worked \$1.21

DISTRIBUTION

Pig Iron Cost Sheet		1454.93
Pig Iron Trucks C. & O.B.	8.94	
Loading Vessels	1445.99	
Acetone Cost Sheet		180.60
Handling Fuel	180.60	
Central Power Statement		23.72
Handling Fuel	23.72	
Stock of Coal		198.75
Limestone		8.45
Pyrites Cinder		110.34
Wood from Yard		4.39
New Construction		1412.25
Wood Retorts	467.43	
Remodeling Chemical Plants	107.24	
Sulphuric Acid Plant	26.25	
Acetic Anhydride Plant	123.49	
Acetone Retorts	520.11	
Acetate Dryer	19.73	
New Generator Set	7.54	
Sodium Acetate Apparatus	129.81	
Continuous Vacuum Dist.App.	5.96	
Acetic Acid Refining Still	4.69	
Accounts Receivable		51.26
Lake Superior & Ishpeming Ry		
Tracks & Yard		139.19
Total as above		3583.88 ✓

Pioneer Iron Company

Furnace Department.

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MAR 11 1912
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STATEMENT OF EXPENDITURES MADE DURING THE YEAR 1911 FOR
SAFETY DEVICES TO MACHINERY AND EQUIPMENT, AND ALL IM-
PROVEMENTS MADE FOR SAFETY OF EMPLOYEES.

<u>PLANT</u>	<u>DETAIL OF WORK DONE</u>	<u>COST SHEET OR STATEMENT</u>	<u>AMOUNT</u>
Alcohol Refining House	- Platforms and Railings on Acetone Tanks	Acetone	\$19.70
Alcohol Primary House	- Guards for belts on pumps	Alcohol Acetate of Lime	116.85 58.45
Acetic Acid Plant	- Guards for belts on motors	Acetic Acid	201.40
Sulphuric Acid Plant	- Guards for Motor & Compressor	Sulphuric Acid	64.40
" " "	- Replacing ladders with stairways	" "	35.48
Total - - -			\$496.28 ✓

NOTE:- No Central Office Expense for year.

3/8/12
AJP/CH

PIONEER IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF FIRE INSURANCE AS OF DECEMBER 31st., 1911

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	N. British & Hero. Co.	P. White Co.	Office & Lab. Bldg. & Dwg.	3 Yrs.	11/30/11	6400	105 60	73 37	32 23	105 60	0 00					
84	Royal Ins. Company	" "	" " " " " "	" "	" "	6400	105 60	73 37	32 23	105 60	0 00					
1510	Providence Washington Co.	Marq.Natl. Bk.	" " " " " "	" "	" "	3000	49 50	34 43	15 07	49 50	0 00	Office & Lab. Bldg.	5000	3 75	None	
1282	Queen Ins. Company	" " "	" " " " " "	" "	" "	4000	66 00	45 87	20 13	66 00	0 00	" " Furni- ture & Fixtures	1400	3 75	"	
6468089	London-Lancashire Co.	" " "	" " " " " "	" "	" "	3000	49 50	34 43	15 07	49 50	0 00	Dwellings-Furn.Houses	19200	95	"	
2009941	American Central Co.	" " "	" " " " " "	" "	" "	2800	46 20	32 12	14 08	46 20	0 00					
2035764	N. British & Hero. Co.	P. White Co.	" " " " " "	37 Mos	12/31/14	6400	108 53	3 05	3 05	105 48						
227	Royal Insurance Co.	" " "	" " " " " "	" "	" "	6400	108 53	3 05	3 05	105 48						
1730	Providence Washington	Marq.Natl. Bk.	" " " " " "	" "	" "	3000	50 87	1 55	1 55	49 32						
1657	Queen Insurance Co.	" " "	" " " " " "	" "	" "	4000	67 84	1 96	1 96	65 88						
6996185	London & Lancashire	" " "	" " " " " "	" "	" "	3000	50 87	1 55	1 55	49 32						
757271	American Central Co.	" " "	" " " " " "	" "	" "	2800	47 48	1 40	1 40	46 08						
						51200	856 52	293 59	141 37	434 96	421 56					
92301	Phoenix Ins. Co.	P. White Co.	Sup., Chem. Sup. & Barn	3 Yrs.	12/ 1/12	3525	117 81	42 60	39 24	81 84	35 97	Supplies	5000	3 12	None	
6468152	London & Lancashire	Marq.,Natl. Bk.	Carpenter Shop & W. House	" "	" "	3525	117 81	42 60	39 24	81 84	35 97	Chemical Supplies	250	3 67	"	
						7050	235 62	85 20	78 48	163 68	71 94	Barn	800	3 75	"	
												Carpenter Shop	500	4 87	"	
												Warehouse	500	3 12	"	
													7050			
1580	Providence Washington	Marq.Natl. Bk.	Manager's Residence	3 Yrs.	12/ 1/12	3500	36 75	13 29	11 87	25 16	11 59					
50269	Palatine Ins. Co.	" " "	" " " " " "	" "	" "	2000	21 00	7 66	7 08	14 74	6 26					
1415	Queen Insurance Co.	" " "	" " " " " "	" "	" "	1750	18 38	6 75	6 19	12 94	5 44					
101512	Commercial Union	" " "	" " " " " "	" "	" "	1500	15 75	5 63	5 19	10 82	4 93					
5820232	Norwich Union	P. White Co.	" " " " " "	" "	" "	1750	18 38	6 75	6 19	12 94	5 44					
						10500	110 26	40 08	36 52	76 60	33 66	Manager's Residence	10500	1 05	None	
2773	Aetna Insurance Co.	P. White Co.	Carp Furnace	1 Yr.	4/14/11	2500	93 25	66 05	27 20	93 25	0 00					
2081	Ins. Co. of N. America	" " "	" " " " " "	" "	" "	2500	93 25	66 05	27 20	93 25	0 00					
1462	Queen Insurance Co.	Marq.Natl. Bk.	" " " " " "	" "	" "	2500	93 30	66 10	27 20	93 30	0 00					
685965	Granite State Ins. Co.	" " "	" " " " " "	" "	9/ 8/11	2500	93 30	29 20	64 10	93 30	0 00					
2841	Aetna Insurance Co.	P. White Co.	" " " " " "	" "	4/14/12	2500	93 25	66 05	66 05	27 20						
2166	Ins. Co. of N. America	" " "	" " " " " "	" "	" "	2500	93 25	66 05	66 05	27 20						
1597	Queen Insurance Co.	Marq.Natl. Bk.	" " " " " "	" "	" "	2500	93 30	66 10	66 10	27 20						
691505	Granite State Fire Ins.Co.	" " "	" " " " " "	" "	9/ 8/12	2500	93 30	29 20	29 20	64 10						
						20000	746 20	227 40	373 10	600 50	145 70	Carp Furnace	1000	3 75	None	
3129	The Home Ins. Co.	P. White Co.	Carp Houses	3 Yrs.	12/ 1/12	1200	16 20	5 85	5 40	11 25	4 95	Carp Houses	1200	1 35	None	
3040241	Royal Exchange	Marq.Natl. Bk.	Fair Ave. House	3 Yrs.	12/ 1/12	1000	9 50	3 52	3 12	6 64	2 86	Fair Ave. House	1000	95	None	
6468149	London & Lancashire	" " "	Locomotive	3 Yrs.	12/ 1/12	1000	25 00	9 13	8 28	17 41	7 59	Locomotive	1000	2 50	None	
242918	Callumet Ins. Co.	P. White Co.	Sulphuric Acid Plt.	60 Da.	3/29/11	2000	12 00	12 00	12 00	0 00						
1809604	N. British & Hero. Co.	" " "	" " " " " "	" "	" "	2500	15 00	15 00	15 00	0 00						
3126	Fidelity-Phoenix Ins. Co.	" " "	" " " " " "	" "	" "	2500	15 00	15 00	15 00	0 00						
92551	The Phoenix Ins. Co.	" " "	" " " " " "	" "	" "	2500	15 00	15 00	15 00	0 00						
1265	Hanover Fire Ins. Co.	" " "	" " " " " "	" "	" "	2500	15 00	15 00	15 00	0 00						
						12000	72 00	72 00	72 00	0 00		Sulph. Acid Plt.	12000	60	None	
882232	National Fire Ins. Co.	P. White Co.	Meyer Retort Bldg.	60 Das.	4/ 7/11	1000	7 50	7 50	7 50	0 00						
21232	Hartford Fire Ins. Co.	" " "	" " " " " "	" "	" "	1000	7 50	7 50	7 50	0 00						
2165	Springfield Fire & Marine	" " "	" " " " " "	" "	" "	1000	7 50	7 50	7 50	0 00						
92537	The Phoenix Ins. Co.	" " "	" " " " " "	" "	" "	1500	11 25	11 25	11 25	0 00						
						4500	33 75	33 75	33 75	0 00		Meyer Retort Bldg.	4500	75	None	

GRAND TOTAL 108450 2105 05 / 664 77 / 752 02 / 1416 79 688 26

Distribution

Central Office Expense	80.34
Rented Buildings	106.07
Barn Account	9.96
Shop Labor	8.16
Chemical Supplies	3.24
Supplies	57.12
Switching	8.28
Carp Idle Expense	373.10
New Construction	105.75
Sulph. Acid Plt.	72.00
Retort Bldg.	33.75

Total 752.02

Made by: 412
 Figured by: 412
 Copied by: 412
 Corrected by: 412
 Examined by: 412

PIONEER IRON COMPANY.
Furnace Department

STATEMENT OF UNINSURED PROPERTY.
DECEMBER 31ST., 1911.

AT MARQUETTE, FURNACE #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 storage house)	3000.00	" "
	Seven motor & fan houses & Contents)	4000.00	" "
	One C.P. water power house & ")	2500.00	" "
	One Sodium acetate building & "	37000.00 X	" "
	One formaldehyde bldg., addition & Contents	15000.00	" "
	One acetone building & contents	40000.00	" "
	One collier's shanty, lime shed & contents	1200.00	Wooden bldg., sheeted
	One machine, smith and electrician shop	8000.00	Incombustible
	Two hose houses	100.00	Wooden bldg.
	One hood & 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., sheeted
	Two acetic acid buildings & contents	30000.00	Incombustible
	One repair shop	1000.00	"
	One Anhydrous acetic acid building	15000.00	"
	One Sulphuric Acid building	90000.00	"
	One Acetic acid and acetic Anhydride storage house	4000.00	Composite Structure
	One wood retort building & contents	30000.00 X	" "
	Gate House	300.00	Incombustible
	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
	Pyrites Ore Bin	1500.00 X	Wooden

Buildings on which we carry our own insurance

AT MARQUETTE, CARP RIVER FURNACE:-

Everything is insured.

X- Property not reported in previous statement.
Two items dropped from statement of 1910
one filler pump and contents
one acetate building & house

Made by JHJ
Figured by _____
Copied by JA
Corrected by _____
Examined by _____

RECEIVED

FEB 23 1912

Ans.

Pioneer Iron Company

Furnace Department.

ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES YEARS 1911 AND 1910.

Acct. No.			<u>1911</u>	<u>1910</u>
	<u>Pig Iron Cost Sheet</u>			
G	Martin Koestu	Hospital Attendance	4.03	
	Peter Jensens	" "	10.28	
	Jos. Markowski	" "	25.14	
			39.45 X	
	<u>Alcohol Cost Sheet</u>			
A	Mrs. Ida Wightman A/C H. Wightman	Burial Expenses	2843.50	180.25 ✓
B	Mrs. Ida Wightman A/C H. Wightman	Legal Expenses	209.00	125.75
C		Medical and Hospital Expenses	19.05	47.50
G				7.00
	<u>Acetone Cost Sheet</u>			
A	Chas. Martin	Mutual settlement		80.00 ✓
G	Lukas Kozielski	Hospital attendance	2.50 X	
	<u>Acetic Acid Cost Sheet</u>			
G	Roy Richardson	Medical attendance	2.00 X	
	TOTAL		3115.50 ✓	260.25 ✓

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Pioneer Iron Company

Furnace Department.

Annual Comparative Statement of Taxes for the Years 1911 and 1910.

	Acres	1911		1910	
		Valuation	Taxes	Valuation	Taxes
City of Marquette:-					
Furnace Plant (Real Estate)	114.50	450000	12482.89	400000	11019.05
" " (Personal)		165900	4602.07	83900	2311.29
Manager's Residence		9400	260.86	9400	258.97
SW $\frac{1}{4}$ of NE $\frac{1}{4}$ Sec. 14-48-25	39.40	5400	149.80	5400	148.78
#Burt & Ely Addition				4515	124.72
Carp Furnace (Real Estate)	64.25	20300	563.13	20300	559.24
" " (Personal)		1400	38.85	540	14.88
Ely Park Addition Lots 1 to 63 inc.		3000	83.23	3000	82.65
Lot 2 Sec. 14-48-25	38.10	3000	83.23	3000	82.65
Portion Lot 301 Ely Park		200	5.57	200	6.26
TOTAL	256.25	658600	18269.63	530255	14608.49

Charged to:-	Per Cent			
	1911	1910		
Furnace Plant	42	42	7171.24	5598.88
Alcohol Plant	34	42	5852.65	5598.88
Acetate Plant	5	5	853.13	666.53
Formaldehyde Plant	2	4	385.65	533.20
Acetone Plant	3	3	511.88	399.91
Acetic Acid Plant	3		511.88	
Sulphuric Acid Idle Expense	1		162.25	
Sulphuric Acid Plant	7		1100.00	
Special Chemical Products	1	1	170.63	133.03
Rented Buildings			652.36	712.88
Manager's Residence			260.86	258.97
Furnace Houses	2	3	341.15	399.91
Fair Avenue House			27.85	27.00
Carp Houses			22.50	27.00
Carp Furnace Plant			601.98	671.84
F. A. Morse, Treasurer			293.98	293.34
TOTAL	100%	100%	18269.63	14608.49

Remarks:-

#Taxes on this property now paid by the Land Department, which accounts for the decrease in the amount of taxes charged to the Carp Furnace.

See Int. Co. Form. 1009 - 35.25

PIONEER IRON COMPANY
Furnace Department

FEB 23 1912
ANS

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING THE FISCAL YEARS 1911 AND 1910

Account of	Grade	Year 1911			Year 1910		
		Net Tons-Lbs.	Year 1911 Price	Amount	Net Tons-Lbs.	Price	Amount
From James Pickands & Co.,	Yough. 3/4	330-1500	3.250	1074.95	1294-0800	2.542	3290 35
" Lake Erie Ports	Egg	45-1000	1.920	87.36	0-0000		
" " " "	Gas	0-0000			203-1300	2.150	437.85
" " " "	Slack	0-0000			89-1100	1.700	152.24
" " " "	Yough. 3/4	9357-0850	2.140	20023.54	14290-0300	2.261	32313.65
Total		9733-1350	2.177	21185.85	15877-1500	2.279	36194.09
Switching by furnace engine			.022	215.78		.020	314.58
Supplies			.003	32.13			0.00
Lake freight			.290	2820.86		279	4434 67
Unloading and switching from boat			.295	2871 99		277	4404 72
Insurance and analysis			.007	69 01		008	128 83
Dumping and trimming			.088	855.57		053	819 21
Total		9733-1350	2 882	28051 19	15877-1500	2.916	46296 10
Inventory beginning of year		5592-1590	2 656	14852 32	5194-0090	2 935	15245 24
Grand Total		15326-0940	2 799	42903 51	21071-1590	2.921	61541 34

CHARGED TO:-

Central Power Plant	7009-0000	2.785	19517 61	12316-0000	3 021	37206 23
Acetate Plant	821-0000	2.756	2262 57	892-0000	2 984	2661 92
Acetone Plant	2250-0000	2.759	6208 58	1549-0000	2 980	4626 56
Acetone Plant No. 1	0-0000			265-0000	3 065	812 10
Tar Plant	0-0000			39-0000	3 120	121 75
Special Chemical Products	106-0000	2.829	299 89	0-0000		
Locomotive	382-0000	2.760	1054 44	328-0000	3 010	987 45
Locomotive Crane	96-0000	2.840	272 67	90-0000	3 030	273 01
Sulphuric Acid Plant	81-0000	2.901	235 04	0-0000		
Wood Retort Plant	111-0000	2.412	267 75	0-0000		
New Construction	107-0000	2.750	294 21	0-0000		
Total	10963-0000	2.772	30393 44	15479-0000	3 016	46689 02

On hand at the end of the year

4363-0940 2.863 12490 75 X 5592-1590 2.656 14852 32

SLACK COAL:-

From Lake Erie ports	400-1150	1.628	651 99			
Switching by furnace engine		012	5 00			
Lake freight		300	120 18			
Unloading and switching from boat		301	120 59			
Total	400-1150	2 241	897 76			

CHARGED TO:-

Sulphuric Acid Plant	177-0610	2 241	397 33			
On hand at end of the year	223-0540	2 241	500 43 X			

POCOHONTAS COAL:-

From James Pickands & Co.	4-1900	4 750	23 52			
Charged to Wood Retort Plant	4-1900	4.750	23 52 X			
On hand at the end of the year	0-0000		0 000			

ANTHRACITE SCREENINGS:-

From local dealers				355-0440	4 111	1460 32
Freight					085	30 40
Switching					021	7 22
Total				355-0440	4 217	1497 94
Inventory at beginning of year				0-0000		
Charged to Acetone Plant				355-0440	4 217	1497 94
On hand at the end of the year				0-0000		0 00

Remarks:-

1910:- Dumping and trimming charges low account of large amount of the coal being handled by the Locomotive crane

Coke used in Acetate Plant not included in above statement 78 tons \$455.00