

1912 - 2100

Miss Water
~~AGENTS' ANNUAL REPORTS AND~~
Free ~~STATISTICS~~ *Land*
YEAR ENDING DEC. 31,
1912

MS 86-100
2100

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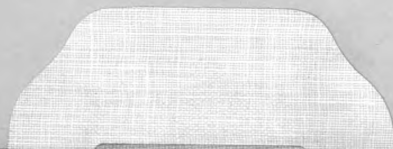
213

AGENTS ANNUAL REPORTS AND STATISTICS

FOR YEAR ENDING DEC. 31, 1912.

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THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT

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2896
Detail of Stock Used

Ores	1912						1911					
	%	Tons -Lbs	Price	Amount	Cost Per Ton		%	Tons-Lbs	Price	Amount	Cost Per Ton	
Lake	565	35372-2027	2 843	100567	91 3	075	531	15980-2000	3 558	56879	66 3	443
Overrun, Lake		297-1837	2 583	769	22							
Cliffs Shaft	012	765-0000	3 752	2870	64	087	079	2370-1380	4 552	10790	98	653
Negaunee	258	16420-2057	2 919	47925	56	1 438	341	10265-2220	3 568	36638	60 2	220
Overrun, Negaunee		372- 177	3 359	1249	44							
Lake Silica							005	400- 686	1 712	1149	86	017
Overrun, Lake Silica								236- 686		869	14	
Lucy	008	497-0000	1 835	911	92	028	044	1308-1940	2 165	2833	47	172
Clinton Silica	044	2903- 605	1 595	4632	42	136						
Overrun, Clinton Silica		142-1245	1 595	227	57							
North Lake Silica	014	845- 531	1 589	1343	21	042						
Overrun, North Lake Silica		7-2131	1 575	12	60							
North Lake	025	1578- 940	2 547	4020	45	124						
Maas	072	4402-1140	2 617	11758	16	362		1305- 725		4875	27	
Overrun, Maas Ore								1305- 725		4875	27	
Morris	002	143-1680	2 544	365	66	011						
Brands for thawing ore				654	71	020						
Credit a/c adjustment ore prices												013
Bonus on ores				1022	27	032						084
Penalty on ores				173	83	005						045
												010
Total	100	62108-1350	2 796	173640	25	5 350	100	30090- 820	3 551	106845	80	6 469
Limestone		1136- 720	958	1088	67	033		688-0000	974	670	52	041
Charcoal (Bushels)		2891419	0860	248567	97	7 658		1503660	0887	133347	77	8 073

THE CLEVELAND-CLEVELS IRON CO.,
Furnace Department.

ANNUAL COMPARATIVE STATEMENT OF PIG IRON FOR YEARS 1912 AND 1911

Production for the Year 1912		32458 Gross Tons		Daily Average 92.2		Days Operated 352		Days Idle 14	
Production for the Year 1911		16517 Gross Tons		Daily Average 78.3		Days Operated 211		Days Idle 154	
Acct. No.	Blast Number 3rd Tons Made this Blast 126185	Year 1912				Year 1911			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
GENERAL EXPENSE:-									
	Insurance								
	Taxes		5562 80	5562 80	171		3163 87	3163 87	192
	Analysis	1912	1911	960 70	210 65	1171 35	036	576 00	409 34
	Central Office Expenses	.195 % #	.129	5872 30	3340 09	9212 39	284	3813 12	2160 31
	Personal Injury Expense			91 65	53 14	1444 79	005		5973 43
	Total -			6924 65	9166 68	16091 33	496	4389 12	5733 52
	MAINTENANCE:-								
	Buildings			136 17	178 16	314 33	010	290 34	61 57
	Machinery			414 94	270 76	685 70	021	25 94	357 89
	Tuyers			43 20	42 59	85 79	002	24 80	20 90
	Pig Iron Trucks, Coal & Ore Buggies			364 80	120 12	484 92	015	342 18	104 75
	Stack			87 22	7 39	94 61	003	77 95	122 04
	Stoves			42 44	14 31	56 75	002	366 87	98 33
	Sewer			18 25	6 79	25 04	001	27 33	12 15
	Trestles and Dook			786 67	581 80	1368 47	042	954 09	896 00
	Tracks and Yard			798 58	675 54	1474 12	045	609 88	459 76
	Cleaning Up			404 72	45 37	450 09	014	713 11	25 49
	Relinings and Renewals				3246 80	3246 80	100		1655 10
	Total -			3096 99	5189 63	8286 62	255	3432 49	3813 98
	OPERATING:-								
	Founders, Keepers and Helpers			9967 49	1 25	9968 74	307	5964 99	7 04
	Coal Forkers			8694 00	101 52	8795 52	271	5242 06	80 37
	Bottom Fillers			8712 87	593 38	9306 25	287	5102 61	255 97
	Top Fillers			2826 31	3 06	2829 37	087	1711 18	1 38
	Handling Iron			6103 95	690 60	6794 55	209	2606 56	9 13
	Handling Cinder			1754 46	1447 71	3202 17	100	1576 20	1112 40
	Weighing and Grading Iron			765 00		765 00	024	432 00	432 00
	Machinery			2019 95	364 93	2384 88	074	1208 60	283 43
	Electric Lamps & Wiring			60 97	129 68	190 65	006	31 60	134 53
	Casting Tools			239 73	202 70	442 43	013	178 01	96 36
	Sand and clay			1076 34	484 78	1561 12	047	527 35	204 76
	Cleaning Stoves			516 64	6 06	522 70	016	12 85	12 85
	Central Power Expense #			1680 60	499 18	2179 78	067	1122 52	865 70
	Total -			44448 31	4494 85	48943 16	1,508	25716 53	3051 07
	STOCK USED:-								
	Cres			112 03	173528 22	173640 25	5,350	36 45	106809 35
	Charcoal				248567 97	248567 97	7,658		133347 77
	Limestone				1088 67	1088 67	033		670 52
	Total -			112 03	423184 86	423296 89	13,041	36 45	240827 64
	Cost of Production			54581 98	442036 02	496618 00	15,300	33674 59	253426 21
	DEPRECIATION:-								
	New Construction				105 00	105 00	003		1803 78
	Demurrage on Ore Cars				661 00	661 00	021		1803 78
	Demurrage on Wood Flats				15 03	15 03	000		509 00
	Appreciation of Inventory								509 00
	Total -				750 97	750 97	024	1294 76	1294 78
	Wood Shortage at Camps				23568 21	23568 21	726		11845 11
	Idle Expense #								1221 20
	Fire Loss at Camps								2221 20
	Total Cost on Yard			54581 98	466355 20	520937 18	16,050	45417 70	268559 53
	SHIPPING EXPENSES:-	1912	1911						
	Freight Allowance								
	Loading Cars	14118	6300	21 21	1039 58	1060 79	075	1 71	478 95
	Loading Vessels	8362	5596	227 08	1138 35	1365 43	163	287 73	724 95
	Switching	14118	6300	105 47	65 44	170 91	012	130 07	79 34
	Total -			353 76	2243 37	2597 13	080	419 51	1283 24
	GRAND TOTAL			54935 74	468598 57	523534 31	16,130	45837 21	269842 77

Plant Account Not Charged off
New Construction Not Charged Off

Co	SUMMARY OF COST PER TON				YIELDS			
	On Yard	On Cars	On Vessels	On Yard	On Cars	On Vessels	1912	1911
Cost on Yard as above	16 050	16 050	16 050	17 454	17 454	17 454	51.6	Ores 52.2
Cost to load as above		987	163		109	181		89.1
Total	16 050	16 137	16 213	17 454	17 563	17 635	78	Flux 87
Commissions & Expenses Cleveland Office	350	350	350	350	350	350		
Total Cost	16 400	16 487	16 563	17,804	17 913	17 985	1,623	2,172

NOTE:- # See detailed statements covering these accounts.

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

REMARKS:-

Summary of cost per ton 1911 is shown the same as on the 1911 Annual Comparative cost sheet which is less the Idle Expense and Fire Loss at Camps.

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Examined by Pho

THE CLEVELAND-CLIFFS IRON CO.
FURNACE DEPARTMENT.

WOOD AND CHARCOAL COST SHEET.

MONTH OF _____ YEAR _____ 191__

Int. No.	CORDWOOD	MONTH OF _____ 191__			12 MONTHS, 191__ 2			12 MONTHS, 191__ 1		
		Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord
	Wood Received at Furnace				65490 ³	171195	50 2 614	35044	87006	18 2 484
	From Lumbering Dept.									
	From other Sources									
	Freight					20828 00	318		11389 00	325
	Measuring					600 00	009		375 00	010
	Switching					2133 42	033		1816 42	051
	TOTAL				65490 ³	194756	29 2 974		100586	60 2 870
	Distribution									
	To Kilns				46460 ²	138132	60 2 973	24455 ²	69840	14 2 858
	To Retorts				15737	46787	36 2 973	8513	24620	48 2 892
	To Retort Yard									
	To Yard				3293 ²	9836	96 2 987	2095 ²	6125	98 2 923
	TOTAL				65490 ³	194756	29 2 974	35044	100586	60 2 870
	Wood on Yard									
	Wood Received				3293 ²	9836	96 2 987	2095 ²	6125	98 2 923
	Unloading and Piling					505 36	154		244 68	117
	TOTAL				3293 ²	10342	32 3 141		6370	60 3 040
	CHARCOAL									
		Kilns Fired			Kilns Fired		344	Kilns Fired		405
		Kilns Drawn			Kilns Drawn		891	Kilns Drawn		400
		Kilns Idle			Kilns Idle		00	Kilns Idle		00
		Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.
	Kilns:				2099789			1269733		
	Wood from Cars					138132	60 0658		79507	04 0626
	Wood from Yard					6774	11 0032		2501	75 0020
	Loading and Sw'g in Yard					506	37 0003		368	23 0003
	Packing					10429	63 0050		5859	97 0046
	Colliers					3997	63 0017		2409	76 0019
	Whitewashing					1020	98 0005		610	31 0005
	Cleaning and Screening					1322	77 0006		805	80 0006
	Braize Cartmen					1048	59 0005		698	26 0005
	Repairs					2776	78 0013		4014	67 0032
	Depreciation					1016	03 0005		3174	34 0025
	TOTAL COST					166625	49 0724		99980	16 0787
	Cords Carbonized						46624		28746	
	Yield per Cord						43.2		44.2	
	Yield per Kiln in Battery						2500		2592	
	Cords per Kiln in Battery						58		58.7	
	Retorts:				709010			383640		
	Wood					46767	36 0660		24620	48 0642
	Foreman					900	00 0013		825	00 0022
	Loading and Drawing					5293	94 0075		2995	27 0078
	Splitting Wood					2844	03 0040		1663	28 0043
	Firing					3013	14 0043		1731	68 0045
	Repairing					2901	91 0040		4437	70 0116
	Handling Fuel					1254	20 0018		7900	19 0018
	Fuel					15190	83 0214		7907	66 0206
	TOTAL COST					78185	13 1103	44977	44681	20 1170
	Cords Carbonized						15737		8513	
	Yield per Cord						45.1		45.1	
	Pounds Coal per Cord						624		701	
	From Outside Sources:							1155		
	<i>Nashua Co.</i>				83460					
	Coal					3755	85 0450		57	75 0500
	Freight					681	24 0081		10	40 0090
	Switching					23	20 0003		61	0005
	Repairing Cars								87	40 0757
	Insurance on Cars									
	TOTAL COST					4460	29 0534		156	16 1382
	Coal									
	Freight									
	Switching									
	Repairs Cars									
	Insurance on Cars									
	TOTAL COST									
	GRAND TOTAL				2892259	249270	91 0862	1654528	145017	53 0876

Remarks:

Plant Account not charged off 1911
 New Construction not charged off \$1016.03

Coal used at Retorts 1912
 4175 tons Young @ 3.104 12958.95 1911
 736 tons-1390⁴ Anth. @ 2.158 1595.71 519 tons @ 3.257 1690.55
2466 " @ 2.276 5613.53

Wood Used at Retorts 208 cords Bds. @ 3.106 646.12 198 cords @ 3.047 603.58
15190.85 7907.66

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

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ANNUAL COMPARATIVE STATEMENT OF ALCOHOL YEARS 1911

W. W. BEECHER COMPANY, WIG. STATIONER, MILWAUKEE 112140

Production for the Year 1912.....282225 Gals. 95%..... Daily Average.....777..... Days Operated.....363..... Days Idle.....3.....
Production for the Year 1911.....175975 Gals. 95%..... Daily Average.....858..... Days Operated.....205..... Days Idle.....160.....

Acct. No.	Year 1912..				Year 1911....				
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per	
GENERAL EXPENSE:-									
Insurance		3825 00	3825 00	014		2334 37	2334 37	013	
Taxes		4362 98	4362 98	016		2557 07	2557 07	015	
Analysis	1912	590 07	185 89	775 96	003	379 63	111 99	491 62	003
Central Office Expense	.068%	2040 67	1144 03	3184 70	010	1288 63	716 62	2005 25	011
Personal Injury Expense									
	Total -	2630 74	9517 90	12148 64	043	1668 26	5720 05	7388 31	042
MAINTENANCE:-									
Buildings		29 90	26 95	56 85	000	96 73	48 44	145 17	001
Tanks & Stills		1810 73	1962 16	3772 89	014	898 73	1412 94	2311 67	013
Condensers		377 25	269 67	646 92	002	252 59	649 44	902 03	005
Machinery		306 67	296 14	602 81	002	197 69	152 51	350 20	002
Smoke Mains		76 91	115 02	191 93	001	63 95	47 09	111 04	001
Sewer		35 51	20 57	56 08	000	54 51		54 51	000
Tracks & Yard		173 50	144 97	318 47	001	46 11	98 78	144 89	001
Cleaning Up		43 15	4 62	47 77	000				
	Total -	2853 62	2840 10	5693 72	020	1610 31	2409 20	4019 51	023
OPERATING:-									
Superintendent		645 33		645 33	002	444 76		444 76	003
Stillmen		8812 57	116 82	8929 39	032	4787 83	35 69	4823 52	027
Condenser men		765 05	17 61	782 66	003	423 79		423 79	002
Machinery	1912		107 73	107 73	000		45 06	45 06	000
Electric Lamps & Wiring	1911	18 79	70 14	88 93	000	5 22	58 46	63 68	000
No. 1 Chem. Power Expense	.33%	3641 56	11313 42	14954 98	054	2765 10	11383 77	14148 87	081
Chemicals		4 83	1170 24	1175 07	004	29	706 83	707 12	004
	Total -	13888 13	12795 96	26684 09	095	8426 99	12229 81	20656 80	117
	Cost of Production	19372 49	25153 96	44526 45	158	11705 56	20359 06	32064 62	182
DEPRECIATION:-									
Plant Account			15619 04	15619 04	055		15930 13	15930 13	091
New Construction			6262 00	6262 00	022				
Appreciation of Inventory			48 78	48 78	000		153 92	153 92	001
	Total -		21832 26	21832 26	077		15776 21	15776 21	090
	Total Cost -	19372 49	46986 22	66358 71	235	11705 56	36135 27	47840 83	272
SHIPPING EXPENSE:- IDLE EXPENSE 1911									
Gallons Shipped	1912					1545 11	13887 45	15132 56	086
Packages	1912	19829 1 1/2		6219 78	031	227 52	3043 67	3271 19	024
Loading	"		40 22	157 66	001	79 86	1 15	81 01	001
Switching	"		9 33	24 04	000	13 19	11 54	24 73	000
	Total -	163 63	6237 85	6401 48	023	320 57	3056 36	3276 93	019
Total Cost on Cars		19536 12	53224 07	72760 19	258	13571 24	52779 08	66350 32	377
New Construction Account Not Charged Off				52205 93				16440 84	
Plant Account Not Charged Off								15619 04	
Yield					5.22				5.37

REMARKS:-
Smoke received from Kilns 1912 38373 1911 24236 eords
" " " Retorts 15737 8513 "
54110 32749

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

ANNUAL COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1912 AND 1911.

Production for the Year <u>1912</u>	<u>5695388 lbs. ✓</u>	Daily Average <u>15688 lbs.</u>	Days Operated <u>363</u>	Days Idle <u>3</u>
Production for the Year <u>1911</u>	<u>3412636 lbs. ✓</u>	Daily Average <u>16643 lbs.</u>	Days Operated <u>205</u>	Days Idle <u>160</u>

Acct. No.	Year <u>1912</u>				Year <u>1911</u>					
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per		
GENERAL EXPENSE:-										
Insurance		1 44	1 44	000		1 29	1 29	000		
Taxes		545 37	545 37	010		320 26	320 26	010		
Analysis	560 01	167 20	727 21	013	386 47	103 41	489 88	014		
Central Office Expense	064%	044%	1947 31	1077 82	3025 13	053	1326 04	714 83	2040 87	060
Total	2507 32	1791 83	4299 15	076	1712 51	1139 79	2852 30	084		
MAINTENANCE:-										
Buildings	13 62	1 43	15 05	000	4 50	2 69	7 19	000		
Tanks & Fans	228 99	36 22	265 21	005	170 17	69 69	239 86	007		
Machinery	113 22	13 75	126 97	002	4 81	06	4 87	000		
Dry Floor		12	12	000	37 40	28	37 68	001		
Tracks & Yard	158 29	134 82	293 11	005						
Cleaning Up	38 45	4 62	43 07	001						
Dryer		5 34	5 34	000						
Total	552 57	196 30	748 87	013	216 88	72 72	289 60	008		
OPERATING:-										
Superintendent	614 67		614 67	011	395 24		395 24	012		
Contractors	4926 76	31 44	4958 20	087	3927 28	75	3928 03	115		
Condensermen	756 35	1 43	757 78	013	423 79		423 79	012		
Machinery		24 82	24 82	000	2 43	42	2 85	000		
Electric lamps and wiring	31 21	12 72	43 93	001	4 40	16 03	20 43	001		
No. 1 Chemical Power Expense	658%	650%	7348 35	22329 16	29677 51	521	5339 15	21972 53	27311 68	800
Handling Fuel	47 00	1 08	48 08	001	26 44	9 75	36 19	001		
Fuel		1976 44	1976 44	035		1185 54	1185 54	035		
Lime	41 28	6437 43	6478 71	114	8 27	4207 62	4215 89	124		
Dryermen	774 66	14 35	789 01	014						
Transferring	54 67	47 00	101 67	002						
Storing	29 69		29 69	000	68 40		68 40	002		
Total	14624 64	30875 87	45500 51	799	10195 40	27392 64	37588 04	1102		
Cost of Production	17684 53	32864 00	50548 53	888	12124 79	28605 15	40729 94	194		
DEPRECIATION:-										
Plant Account		2676 51	2676 51	046		2134 51	2134 51	062		
New Construction		2515 90	2515 90	044						
Appreciation of Inventory		81 51	81 51	001		114 69	114 69	003		
Total		5110 90	5110 90	089		2019 82	2019 82	059		
Total Cost	17684 53	37974 90	55659 43	977	12124 79	30624 97	42749 76	253		
Idle Expense					526 87	1701 92	2228 79	065		
SHIPPING EXPENSE:-										
Sacks	5695388	3412636	30 97	1170 33	1201 30	021	10 50	2089 77	061	
Loading	5850423	4633330	436 83		436 83	007	326 27	326 27	007	
Switching	5850423	4633330	26 56	16 46	43 02	001	48 23	39 08	87 31	002
Total	494 36	1186 79	1681 15	030	385 00	2118 35	2503 35	073		
Total Cost on Cars	18178 89	39161 69	57340 58	1007	13036 66	34445 24	47481 90	391		
Plant Account not charged off							2676 51			
New Construction not charged off							9462 20			
Yield per Cord of Wood				44812 98	1053			1042		
	<u>1912.</u>	<u>1911.</u>								
Smoke received from kilns	38373	24236								
Smoke received from Retorts	15737	8513								
Tons Coal	636 tons @ 3.018 ✓	361 tons @ 3.284 ✓								

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 Examined by AWB

THE CLEVELAND-CLIFFS IRON COMPANY
FURNACE DEPARTMENT.

ANNUAL COMPARATIVE STATEMENT OF SPECIAL CHEMICAL PRODUCTS FOR 1912 - 1911.

Production for the Year.....		Daily Average.....	Days Operated.....	Days Idle.....					
Production for the Year.....		Daily Average.....	Days Operated.....	Days Idle.....					
Acct. No.	Gallons	Year 1912...				Year 1911..			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
	PRODUCED & SHIPPED:-	1912.	1911.						
	Denaturing Alcohol	58612 ✓	26363						
	Diamond Spirits	6550 1/2 ✓	1276						
	Special Spirits No. 1	5637 1/2 ✓	2500						
	Perfume Spirits	154 1/2 ✓							
	Special Solvent No. 1		8520						
	Special Solvent No. 8	8412 ✓	9540						
	Special Solvent No. 34	2300 ✓							
	Special Solvent No. 33		105						
	Special Alcohol	2000 ✓							
	Methyl Acetone A	2953 1/2 ✓	99						
	Methyl Acetone AA	8034 1/2 ✓	3450						
	Methyl Acetone AAA	289 1/2 ✓	50						
	Methyl Acetate		106 1/2						
	Soap Spirits	494 1/2 ✓							
	Special Alcohol No. 10	600 ✓							
	GENERAL EXPENSE:-	1912	1911						
	Central Office Expense	.003 %	.004 %	95 05	52 33	147 38 ✓	105 56	55 92	161 48
	Analysis			24 70	18 02	42 72	30 72	27 68	58 40
	Advertising Samples				24 19	24 19			
	Total			119 75	94 54	214 29	136 28	83 60	219 88 ✓
	OPERATING:-								
	Chemist			540 00		540 00 ✓	540 00		540 00
	No. 1 Chemical Power Expense	.003 %	.004 %	30 98	65 88	96 86 ✓	16 91	72 48	89 39
	Alcohol				37540 91	37540 91 ✓		21174 19	21174 19
	Chemicals				297 55	297 55		815 21	815 21
	Methyl Acetone				1303 20	1303 20			
	Total			570 98	39207 54	39778 52	556 91	22061 88	22618 79 ✓
	SHIPPING EXPENSE:-								
	Packages			24 34	2729 11	2753 45	112 13	1541 57	1653 70
	Loading			58 72	6 38	65 10	31 22	8 48	39 70
	Switching			7 42	4 36	11 78 ✓	6 34	5 69	12 03
	Total			90 48	2739 85	2830 33	149 69	1555 74	1705 43 ✓
	Grand Total			781 21	42041 93	42823 14	842 88	23701 22	24544 10 ✓
	Appreciation of Inventory				11 87	11 87		7 85	7 85
				781 21 ✓	42053 80	42835 01	842 88	23693 37	24536 25 ✓
					42030 06	42811 27			
	Remarks:-								
	Alcohol used:-	1912.	1911.						
	Methyl Acetone used	95472 1/2 gals. @ .393 ✓	52198 1/2 gals. @ .406 ✓						
		2501 1/2 " ✓							

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THE CLEVELAND-CLIFFS IRON COMPANY.

FURNACE DEPARTMENT.

COST SHEET FOR RENTED BUILDINGS.

GLADSTONE LOCATION.

Month of Year.....1912.....

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						1 46	2 02			3 48	72 00
Dan Hannigan	2						1 45	2 02			3 47	63 00
Geo. Bushman	3						1 45	2 02			3 47	72 00
August Kernitz	4						1 45	2 02			3 47	72 00
James Barry	5						1 45	2 02			3 47	72 00
Louis Switzer	6						1 45	2 02			3 47	72 00
Emil Landine	7						1 45	2 25			3 73	72 00
John Flynn	8						1 45	2 03			3 48	72 00
Joe Ryerse	9						1 45	2 03			3 48	72 00
Louis Devet	10						1 45	2 03			3 48	72 00
John Holm	11						1 45	2 54			3 99	72 00
Joe Devet	12						1 45	2 03			3 48	72 00
Hans Olson	13						1 45	6 82			8 27	72 00
Charles Erickson	14						1 45	3 24			4 69	72 00
Andrew Anderson	15						1 45	2 03			3 48	67 40
Leo Brook	16						1 45	2 17			3 62	72 00
Ed Buckman	17						1 45	2 26			3 71	72 00
Chas. Stephenson	18						1 45	4 44			5 89	65 00
Wm. Wolf	19						1 45	2 03			3 48	67 60
Joe Beck	20						1 45	3 19			4 64	72 00
R. P. Beattie	21		17 00				1 46	8 35			26 81	72 00
Wm. H. Miller	22						1 46	2 15			3 61	72 00
Richard Barry	23						1 46	4 33			5 79	72 00
John Wargo	24						1 46	4 20			5 66	69 40
John Hulti	25						1 46	2 03			3 49	72 00
Andrew Rantila	26						1 45	2 23			3 68	72 00
Joe Karlovich	27						1 45	2 03			3 48	72 00
William Griffith	28						1 45	2 03			3 48	72 00
James L. Ryerse	29						1 45	2 03			3 48	72 00
Charles Vestine	30						1 45	4 29			5 74	72 00
Matt Maoki	31						1 45	2 21			3 66	63 20
Matt Wasco	32						1 45	2 34			3 79	64 00
Fred Busk	33						1 45	3 57			5 02	69 00
Mike Groose	34						1 45	2 04			3 49	72 00
John Jaaska	35						1 45	3 14			4 59	72 00
Matt Hulti	36						1 45	3 19			4 64	72 00
Otto Karjala	37						1 45	2 50			3 95	72 00
John Anderson	38						1 44	2 78			4 22	72 00
Burned	39											12 00
Burned	40											12 00
Joe Devet	41						1 44	2 03			3 47	72 00
Wilfred Martin	42						1 44	2 03			3 47	56 20
Henry Hughson	43						1 44	3 42			4 86	50 40
John Lowrich	44						1 44	2 03			3 47	66 00
Abraham Isaacson	45						1 44	2 03			3 47	72 00
George Rivers	46						1 44	2 92			4 36	72 00
Henry Rody	47						1 44	2 03			3 47	60 00
Isaac Esler	48						1 44	3 13			4 57	53 20
John Fish	49						1 44	2 03			3 47	72 00
John Koval	50						1 44	2 03			3 47	72 00
Ed. Mackin	51							8 93			8 93	80 00
Max Klar	52							31 18			40 42	90 00
Geo. J. Slining			31 20	24 87				39 60			95 67	120 00
James Hannigan								1 26			1 26	96 00
Total,			48 20	34 11			69 55	211 33			362 19	3744 40
GENERAL EXPENSE:												
Stationery and Printing.												
Insurance.											42 60	✓
Taxes.											580 28	✓
Advertising.												
Legal.												
Traveling.												
Uncollectable Rents											22 50	✓
Total,											645 38	
Depreciation.											2735 63	
Grand total cost of operating.											3744 40	
Net Earnings.												
Number of Buildings in good repair.				52								
“ “ “ “ poor “												
“ “ “ “ unrentable.												
Total Buildings.				52								
Total Number of Untenanted Buildings.												
Made by <u>Geo</u>												
Figured by <u>Geo</u>												
Checked by <u>Geo</u>												
Examined by <u>Geo</u>												
REMARKS:												
Total Rent Uncollected 1st of Month.												
Total Rent Earnings—Current Month.										3744 40	✓	
Total,												
Total Rent Collected—Current Month.										3724 40	✓	
Total Rent Uncollected End of Month.										20 00	✓	
Plant Acc't Not Charged Off.										3799 99	✓	
Insurance Valuation.										22000 00	✓	

THE CLEVELAND-CLIFFS IRON COMPANY.
FURNACE DEPARTMENT.

LABOR STATEMENT FOR MONTH OF _____ YEAR 1912.

Acct. No.	1912		No. Men	No. Days	Total Earnings	RATE PER DAY		Acct. No.	NO. MEN 1911	No. Men	No. Days	Total Earnings	RATE PER DAY		
	Tons per man per day					This Year	Last Year						This Year	Last Year	
	1912	1911													
Furnace:															
Founders,	2	2	2	732 0	2580 00	3 52	3 75								
Keepers,	2	2	2	711 5	1706 45	2 40	2 42								
Helpers,	8	8	8	2626 2	5552 59	2 11	2 12								
Coal Forkers,	12	12	12	4244 9	8482 53	2 00	2 02								
Bottom Fillers,	12	12	12	4431 3	8416 56	1 90	1 94								
Car Pushers,															
Top Fillers,	4	4	4	1414 0	2826 31	2 00	2 02								
Iron Handlers,	5	6	6	2066 2	5023 78	2 43	2 34								
Cinder Snappers,	2	1	1	503 9	980 50	1 95	1 98								
Blowing Engine Engineers,	2	2	2	734 5	2019 95	2 75	2 78								
Iron Grader,	1	1	1	366 0	765 00	2 09	1 97								
Laboratory Boy,	1	1	1	366 0	960 00	2 62	2 63								
Total,	51	51	51	18196 5	39313 67	2 16	2 20								
Proportion of Central Power Expense,	4	2	2	788 8	1680 60	2 13	2 16								
Proportion of Miscellaneous Labor,	16	11	11	3771 1	8069 17	2 14	2 24								
Proportion of Central Office Expense,	4	3	3	1320 5	5872 30	4 45	4 23								
Total as per Cost Sheet,	75	67	67	24076 9	54935 74	2 28	2 35								
Alcohol Plant No. 1:															
Superintendent,	1	1	1	105 4	519 59	4 93	4 93								
Stillmen,	6	9	9	3323 9	7115 39	2 14	2 16								
Coopers,				1 8	3 22	1 79	2 08								
Condensermen,	1	1	1	408 4	724 84	1 78	1 77								
Total,	72	10	10	3839 5	8363 04	2 18	2 30								
Proportion of No. 1 Chem. Power Expense,	3	4	4	1332 6	2733 65	2 05	2 08								
Proportion of Miscellaneous Labor,	3	4	4	1235 9	2650 32	2 14	2 24								
Proportion of Analysis,	1	1	1	49 2	477 19	9 70	12 33								
Proportion of Central Office Expense,	1	1	1	373 1	1652 39	4 43	4 23								
Total as per Cost Sheet,	14	14	14	6830 3	15876 59	2 32	2 45								
Alcohol Plant No. 2:															
Superintendent,				25 5	125 74	4 93	4 92								
Stillmen,	4	3	3	767 2	1684 82	2 20	2 23								
Coopers,				13 4	24 28	1 81	1 83								
Total,	4	3	3	806 1	1834 84	2 28	2 30								
Proportion of No. 2 Chem. Power Expense,	3	2	2	469 9	907 91	1 93	2 05								
Proportion of Miscellaneous Labor,	1			195 1	415 62	2 13	2 24								
Proportion of Analysis,				9 1	112 88	12 40	12 33								
Proportion of Central Office Expense,				86 4	368 28	4 49	4 23								
Total as per Cost Sheet,	8	5	5	1566 6	3659 53	2 34	2 41								
Acetate Plant No. 1: CHEM. POWER EXP.															
Superintendent,	1	1	1	71 7	142 96	2 00									
Contractors,	5	5	5	97 3	480 27	4 94	4 92								
Condensermen,	1	1	1	1464 2	3574 44	2 44	2 45								
Dryermen	1	1	1	408 5	724 86	1 78	1 77								
Total,	62	6	6	2415 5	5689 81	2 36	2 45								
Proportion of No. 1 Chem. Power Expense,	7	1	1	2665 9	5469 12	2 05	2 08								
Proportion of Miscellaneous Labor,	1	1	1	547 9	1172 08	2 14	2 24								
Proportion of Analysis,				44 2	440 02	9 96	12 33								
Proportion of Central Office Expense,	1	1	1	345 3	1531 55	4 44	4 23								
Total as per Cost Sheet,	15	16	16	6018 8	14302 58	2 38	2 46								
Acetate Plant No. 2:															
Superintendent,	1	1	1	27 3	134 40	4 92	4 97								
Contractors,	3	3	3	557 5	1352 32	2 43	2 35								
Total,	32	3	3	584 8	1486 72	2 54	2 50								
Proportion of No. 2 Chem. Power Expense,	4	5	5	865 2	1670 92	1 93	2 05								
Proportion of Miscellaneous Labor,				87 9	182 91	2 08	2 24								
Proportion of Analysis,				9 6	120 00	12 50	12 33								
Proportion of Central Office Expense,				92 7	415 76	4 49	4 23								
Total as per Cost Sheet,	72	6	6	1640 2	3876 31	2 36	2 43								
Special Chemical Products:															
Chemists,	1	1	1	109 5	540 00	4 93	4 93								
Coopers,	1	1	1	11 8	21 25	1 80	2 04								
Total,	1	1	1	121 3	561 25	4 63	4 10								
Proportion of No. 1 Chem. Power Expense,				14 9	30 98	2 08	2 08								
Proportion of Miscellaneous Labor,				32 4	69 24	2 14	2 24								
Proportion of Analysis,				2 3	24 69	10 74	12 33								
Proportion of Central Office Expense,				21 2	95 05	4 48	4 23								
Total as per Statement,	1	1	1	192 1	781 21	4 07	3 90								
Kiln Plant:															
Colliers,	5	4	4	1657 0	3451 55	2 08	2 15								
Whitewashers,	1	1	1	366 0	750 30	2 05	2 05								
Packers,	15	15	15	4275 3	9852 29	2 30	2 32								
Packer Foreman,	1	1	1	183 0	450 00	2 46	2 34								
Cleaners and Screeners,	2	2	2	645 6	1312 49	2 03	2 05								
Breeze Cartman,	1	1	1	366 1	751 80	2 00	2 03								
Total,	25	24	24	7493 0	16548 43	2 21	2 23								
Proportion of Miscellaneous Labor,	3	2	2	801 2	1707 27	2 13	2 24								
Total,	28	26	26	8294 2	18255 70	2 20	2 23								
Retort Plant:															
Foreman,	1	1	1	366 0	900 00	2 46	2 47								
Fireman,	4	4	4	1463 0	2999 60	2 05	2 09								
Winchman,	1	1	1	337 9	710 00	2 10	1 97								
Wood Loaders,	6	6	6	2200 0	4290 40	1 95	1 97								
Wood Splitters,	4	4	4	1450 0	2827 70	1 95	1 97								
Fuel Cartman,	1	1	1	379 3	758 91	2 00	2 02								
Total,	17	17	17	6196 2	12486 61	2 02	2 05								
Proportion of Central Power Expense,				2 7	6 77	2 51	2 16								
Proportion of Miscellaneous Labor,	4	4	4	1193 7	2556 51	2 14	2 24								
Total,	21	21	21	7392 6	15049 89	2 03	2 09								

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Acct. No.	1912		No. Men	No. Days	Total Earnings	RATE PER DAY		Acct. No.	NO. MEN 1911	No. Men	No. Days	Total Earnings	RATE PER DAY		
	Tons per man per day					This Year	Last Year						This Year	Last Year	
	1912	1911													
Operating Rented Buildings:															
Proportion of Central Power Expense,															
Proportion of Miscellaneous Labor,															
Total,															
Employees' Club:															
Steward,	1	1	1	366 0	720 00	1 97	1 97								
Proportion of Central Power Expense,				26 1	56 27	2 16	2 16								
Proportion of Miscellaneous Labor,				17 8	37 39	2 10	2 24								
Total,	1	1	1	409 9	813 66	1 98	2 00								
Ore and Limestone:															
Proportion of Miscellaneous Labor,	3	4	4	1192 2	2546 92	2 14	2 24								
Other Accounts: Prop. Miscellaneous Labor:															
Wood,	3	3	3	1142 1	2444 98	2 14	2 24								
Supplies,	2	3	3	1062 0	2277 21	2 14	2 24								
Stock of Coal,				92 3	199 87	2									

THE CLEVELAND-CLIFFS IRON CO.

FURNACE DEPARTMENT.

COST OF OPERATING EMPLOYEES' CLUB.

Year 1912

	1-Month Year 1912	Months. Year 1911
GENERAL EXPENSE:		
Insurance,	15 00 ✓	32 83
U. S. License,	25 00	24 96
State License,	500 00	500 04
Freight on Supplies,	13 80	11 09
Liquor Bond	30 00	30 00
Total,	583 80	598 92 ✓
MAINTENANCE:		
Equipment,	9 40	21 11
Buildings,	49 19	70 45
Lawn, Walks and Fences,	1 19	
Total,	59 78 ✓	91 56 ✓
OPERATING:		
Caretaker,	720 00 ✓	720 00 ✓
Wood,	52 76	36 40
Electric Lights,	2 35	1 63
Ice,	10 00	20 00
Central Power Expense	103 59 ✓	121 19
Total,	888 70	899 22 ✓
STOCK USED:		
Beer,	1467 86	1107 98
Liquor,	467 40	402 28
Cigars,	194 40	150 80
Cigarettes,	53 90	39 13
Tobacco,	60 49	65 43
Confectionery	81 63	50 47
Total,	2325 68	1816 09 ✓
Total Expenses,	3857 96	3405 79 ✓
Total Receipts,	3745 98	2803 56 ✓
Net Loss..	111 98	602 23 ✓

STOCK ACCOUNT.

STOCK	Dec. 31-1911 Inventory Last Month.	Purchased Current Month.	Total.	Sales.	Inventory Current Month.
Beer,	24 12	1463 51	1487 63	1467 86	19 77
Liquor,	144 78	533 06	677 84	467 40	210 44
Cigars,	42 42	221 88	264 30	194 40	69 90
Cigarettes,	45 55	34 25	79 80	53 90	25 90
Tobacco,	10 56	67 49	78 05	60 49	17 56
Confectionery	25 00	76 63	101 63	81 63	20 00
Total,	292 43	2396 82	2689 25	2325 68	363 57

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THE CLEVELAND-CLIFFS IRON COMPANY
FURNACE DEPARTMENT

ANNUAL COMPARATIVE STATEMENT OF CENTRAL POWER EXPENSE FOR 1912 AND 1911.

THE CLEVELAND-CLIFFS IRON COMPANY, INC., CLEVELAND, OHIO - 112140

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

Acct. No.	Year 1912...				Year 1911...			
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
MAINTENANCE:-								
Buildings	12 06		12 06		101 91	136 16	238 07	
Boilers	300 30	99 04	399 34		345 56	411 41	756 97	
Pumps	157 68	100 03	257 71		656 44	124 85	781 29	
Generators	11 27	15 18	26 45		66 52	96 28	162 80	
Steam Meter						217 00	217 00	
	481 31	214 25	695 56		1170 43	985 70	2156 13	
OPERATING:-								
Firing	1435 30	6 43	1441 73		1499 77	2 16	1501 93	
Oilers	1741 02		1741 02		1029 55		1029 55	
Boilers	213 91	118 75	332 66		76 50	106 22	182 72	
Pumps		332 41	332 41			254 15	254 15	
Generators		233 65	233 65			146 64	146 64	
Electric Lamps & Wiring	99	12 48	13 47		4 73	13 78	18 51	
Handling Fuel	216 05	43 39	259 44		240 02	35 62	275 64	
Steam Coal						3849 07	3849 07	
Cordwood		1265 64	1265 64			1299 29	1299 29	
	3607 27	2012 75	5620 02		2850 57	5706 93	8557 50	
	4088 58	2227 00	6315 58		4021 00	6692 63	10713 63	
DISTRIBUTION OF EXPENSE:-								
	1912	1911						
	Percent	Percent						
No.1 Chemical Power Expense	.827	.646	1944 20	1475 11	3419 31	1016 71	843 77	1860 48
No.2 Chemical Power Expense	.084	.199	248 92	98 87	347 79	313 54	259 06	572 60
Shop Expense	.021	.037	51 53	36 66	88 19	50 27	56 45	106 72
Central Office Expense	.025	.043	60 04	43 12	103 16	60 13	64 85	124 98
Operating Employees' Club	.025	.042	60 35	43 24	103 59	58 68	62 51	121 19
Switching Expense	.015	.018	36 17	26 01	62 18	30 77	30 23	61 00
Operating Rented Buildings		.013				11 92	14 19	26 11
Retort Operating	.003	.002	6 77	4 81	11 58	2 54	2 31	4 85
		Total	2407 98	1727 82	4135 80	1544 56	1333 37	2877 93
Furnace Operating			1680 60	499 18	2179 78	1122 52	865 70	1988 22
Furnace Idle Expense						1353 92	4493 56	5847 48
		Total as above	4088 58	2227 00	6315 58	4021 00	6692 63	10713 63

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

Boilers:-

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

Generators:-

No. of Generators, 2.
No. operated, 2.
Type of Generator, Westinghouse, 75 K.W., 220 volts D.C.
Name of maker, Westinghouse Co.

Pumps:-

No. of Pumps, 2.
Capacity per minute, 3472 gals., 5 million gals. in 24 hours.
No. operated, 2.
Type of pump, Prescott triple expansion.
Name of maker, F. M. Prescott Steam Pump Co.

	1912.	1911.
Steam Coal used	411½ cords @ 3.08 ✓	1191 tons @ 3.231 ✓
Cordwood used		414 cords @ 3.138 ✓

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THE CLEVELAND-CLIFFS IRON COMPANY
FURNACE DEPARTMENT.

ANNUAL COMPARATIVE STATEMENT OF NO. 1 CHEMICAL POWER EXPENSE FOR 1912 and 1911.

Production for the Year.....		Daily Average.....	Days Operated.....	Days Idle.....				
Production for the Year.....		Daily Average.....	Days Operated.....	Days Idle.....				
Acct. No.	Year 1912...				Year 1911...			
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
MAINTENANCE:-								
	Buildings	19 20	1 01	20 21 ✓	9 53	2 19	11 72	
	Boilers	723 64	559 93	1283 57 ✓	264 03	194 69	458 72	
	Pumps	58 42	1 76	60 18 ✓	9 16	2 01	11 17	
		801 26	562 70	1363 96 ✓	282 72	198 89	481 61 ✓	
OPERATING:-								
	Engineers	1610 50		1610 50 ✓	963 95		963 95	
	Firing	2860 08	18 89	2878 97 ✓	1724 50	9 78	1734 28	
	Boilers	268 17	46 70	314 87 ✓	156 05	102 32	258 37	
	Pumps	1 34	70 56	71 90 ✓		78 79	78 79	
	Electric Lamps & Wiring	24 12	19 02	43 14 ✓	1 58	21 19	22 77	
	Central Power Expense	827% 1944 20	646% 1475 11	3419 31 ✓	1016 71	843 77	1860 48	
	Handling Fuel	817 05	8 20	825 25 ✓	661 88	51 07	712 95	
	Steam Coal		18052 04	18052 04 ✓		17657 56	17657 56	
	Cordwood		687 18	687 18 ✓		679 05	679 05	
	Total	7525 46	20377 70	27903 16 ✓	4524 67	19443 53	23968 20 ✓	
	Grand Total	8326 72	20940 40	29267 12 ✓	4807 39	19642 42	24449 81 ✓	
DISTRIBUTION OF EXPENSE:-								
		1912	1911					
		Percent	Percent					
	No. 1 Alcohol Operating	1710.9 328	326	2733 65 ✓	1567 36	6400 19	7967 55	
	No. 1 Acetate Operating	8841.8 656	652	5469 12 ✓	3134 12	12797 96	15932 08	
	Special Chem. Products Optg.	17.8 003	004	30 98 ✓	16 91	72 48	89 39	
	No. 2 Chemical Power Expense	782013	018	92 97 ✓	89 00	371 79	460 79	
	Total as above	1000		8326 72	4807 39	19642 42	24449 81 ✓	

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

Number of boilers in battery, 7.
Number of boilers in commission, 7.
Horsepower, 875.
Type of boilers, tubular.
Name of makers, Bass Foundry & Machine Co.

	1912	1911
Steam coal used	5826 tons @ 3.099 ✓	5381.5 tons @ 3.281 ✓
Cordwood used	224 cords @ 3.068 ✓	229 cords @ 2.965 ✓

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THE CLEVELAND-CLIFFS IRON COMPANY
FURNACE DEPARTMENT

ANNUAL COMPARATIVE STATEMENT OF NO. 2 CHEMICAL POWER EXPENSE FOR 1912 AND 1911.

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

Acct. No.	Year 1912.				Year 1911.			
	Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
MAINTENANCE:-								
Buildings					29 57	16 99	46 56	
Boilers	80 53	16 23	96 76	✓	555 35	419 25	974 60	
Pumps	3 33	21	3 54	✓	69 45	27 93	97 38	
	83 86	16 44	100 30	✓	654 37	464 17	1118 54	✓
OPERATING:								
Firing	1760 88	6 52	1767 40	✓	1678 26	6 62	1684 88	
Boilers	76 56	32 80	109 36	✓	209 47	61 80	271 27	
Pumps		20 85	20 85	✓		63 77	63 77	
Electric Lamps & Wiring		1 93	1 93	✓		9 33	9 33	
Central Power Expense .084% .199%	248 92	98 87	347 79	✓	313 54	259 06	572 60	
No. 1 Chemical Power Expense .013% .326%	92 97	298 96	391 93	✓	89 00	371 79	460 79	
Handling Fuel	523 95	13 15	537 10	✓	458 13	56 09	514 22	
Steam Coal,		12577 50	12577 50	✓		12865 52	12865 52	
Total	2703 28	13050 58	15753 86		2748 40	13693 98	16442 38	✓
Grand Total	2787 14	13067 02	15854 16	✓	3402 77	14158 15	17560 92	✓

DISTRIBUTION OF EXPENSE:-		1912	1911							
		Per	Per							
		Cent	Cent							
No. 2 Alcohol Operating	1897.6	338	352	907 91	4456 91	5364 82	✓	1197 74	4983 58	6181 32
No. 2 Acetate Operating	1139.4	662	648	1879 23	8610 11	10489 34	✓	2205 03	9174 57	11379 60
Total as above				2787 14	13767 02	15854 16	✓	3402 77	14158 15	17560 92

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

Number of boilers in battery, 4.
Horsepower, 640.
Type of boilers, Stirling water tube.
Name of makers, The Stirling Company.
No. in operation, 4.

Coal used 1912. 4059 tons @ 3.06 ✓
1911. 3935.3 tons @ 3.269 ✓

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

(14)

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

STATEMENT OF SHOP LABOR FOR YEAR 1912.

MACHINE SHOP:-

<u>Month</u>	<u>Pay Roll</u>	<u>Supplies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Cost per Hr.</u>
January	593.63	39.68	633.31	2422	.2614
February	618.83	60.07	678.90	2490	.2506
March	1113.11	49.97	1163.08	5277	.2203
April	1131.01	39.89	1170.90	5435	.2154
May	916.17	53.16	969.33	4124	.2341
June	1167.07	92.72	1259.79	5187	.2427
July	1235.54	42.50	1278.04	5546	.2304
August	1363.90	38.91	1402.81	6093	.2300
September	1513.87	120.29	1634.16	6603	.2474
October	1837.51	38.31	1875.82	8209	.2704
November	1598.29	32.73	1631.02	6968	.2763
December	1700.20	56.30	1756.50	7275	.3111
	<u>14789.13</u>	<u>664.53</u>	<u>15453.66</u>	<u>65629</u>	<u>.2355</u>

BLACKSMITH SHOP:-

<u>Month</u>	<u>Pay Roll</u>	<u>Supplies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Cost Per Hr.</u>
January	124.45	14.87	139.32	525	.2653
February	118.20	15.92	134.12	500	.2683
March	130.15	19.39	149.54	550	.2719
April	128.82	6.56	135.38	548	.2470
May	125.35	7.83	133.18	550	.2421
June	112.87	3.72	116.59	495	.2355
July	138.26	11.43	149.69	579	.2574
August	144.82	6.28	151.10	612	.2469
September	131.20	11.11	142.31	550	.2584
October	140.43	7.92	148.35	592	.2506
November	140.06	9.52	149.58	576	.2606
December	126.40	6.00	132.40	510	.2596
	<u>1561.01</u>	<u>120.55</u>	<u>1681.56</u>	<u>6587</u>	<u>.2553</u>

CARPENTER SHOP:-

<u>Month</u>	<u>Pay Roll</u>	<u>Supplies</u>	<u>Total Debit</u>	<u>Total Hours</u>	<u>Cost Per Hr.</u>
January	330.12	.27	330.39	1397	.2363
February	349.83	5.27	355.10	1537	.2310
March	335.99	.87	336.86	1514	.2220
April	299.65	.27	299.92	1312	.2284
May	319.87	.27	320.14	1354	.2362
June	228.29	.27	228.56	966	.2363
July	168.44	5.40	173.84	708	.2455
August	246.94	.27	247.21	1037	.2381
September	290.05	5.55	295.60	1235	.2394
October	300.64	.27	300.91	1292	.2327
November	287.10	2.25	289.35	1243	.2310
December	289.27	7.31	296.58	1246	.2380
	<u>3446.19</u>	<u>28.27</u>	<u>3474.46</u>	<u>14841</u>	<u>.2341</u>

Made by Fwa
 Figured by ms
 Copied by ms
 Corrected by ms
 Examined by ms

ANNUAL COMPARATIVE STATEMENT OF STABLE EXPENSE.

Production for the Year	No. Horses	12	Days Worked	4029	Days Average	Days Operated	No. Horses	13	Days Worked	3316
			Idle	331					Sick	00
			Sick	92					Days Idle	1429
			Total Days	4452					Total Days	4745

Acct. No.	Year...1912..				Year.....1911.					
	Labor	Supplies	Total	Cost per Horse Per Day	Labor	Supplies	Total	Cost per Horse Per Day		
GENERAL EXPENSE:-										
Insurance		1 92	1 92	000		2 04	2 04	001		
Total -		1 92	1 92	000		2 04	2 04	001		
MAINTENANCE:-										
Buildings	54 56	45 63	100 19	023	137 21	116 67	253 88	053		
Harness	11 89	78 89	90 78	020	12 59	91 78	104 37	022		
Carts, wagons & Sleighs	134 51	109 09	243 60	055	118 93	12 69	131 62	028		
Tools		10 00	10 00	002		14 77	14 77	003		
Total -	200 96	243 61	444 57	100	268 73	235 91	504 64	106		
OPERATING:-										
Barn Boss	130 00		130 00	029	130 00		130 00	027		
Shoeing	149 10	80 68	229 78	052	116 80	74 15	190 95	041		
Medicine & Veterinary Service	129 13	225 72	354 85	080	1 03	17 69	18 72	004		
Electric Lamps & Wiring	3 20	6 53	9 73	002		60	60	000		
Oils & Grease		4 37	4 37	001		5 17	5 17	001		
Bedding		26 34	26 34	006	1 80	113 60	115 40	024		
Total -	411 43	343 64	755 07	170	249 63	211 21	460 84	097		
FEEDING:-										
Hay	525 3/4 tons @ 19.00	593 3/4 @ 24.00	998 77	998 77	224	1425 29	1425 29	300		
Oats	2418 1/2 Bus. @ .604	1884 1/2 @ .45 3/4	1451 21	1451 21	326	857 38	859 18	181		
Feed	16600 lbs. @ 1.45	20090 @ 1.50	240 71	240 71	054	301 36	301 36	064		
Total -			2690 69	2690 69	604	2584 03	2585 83	545		
GRAND TOTAL -			612 39	3279 86	3892 25	874	520 16	3033 19	3553 35	749

AMOUNT	DAYS	DISTRIBUTION	
		MAXX	NO. DAYS
1623 38	1XX	1857.2	363
97	1 1		Braize Cart 312
1 97	2 3		Retort Fuel Cart 242
23	3		Transfer Car 442
32 73	37 4		Office Rig 720
20 59	23 6		Sup't Rig 396
34 31	39 3		Handling Sand 287
561 76	642 2		Miscellaneous Team- ing 554
365 63	418 5		TOTAL - 3316
552 24	632 0		
97	1 1		
4 14	4 7		
44 70	51 1		
3 14	3 6		
28 81	32 9	72.0	
3 05	3 5		
2 22	2 5		
7 81	8 9		
13 03	14 9		
5 05	5 8		
3 07	3 5		
51 17	58.4		
23	3		
7 09	8 1		
12 44	14 2		
30 23	34 5		
1 18	1 3		
2 47	2 8	859.6	
21	2		
282 22	323 0		
105 09	120 2		
351 04	401 7		
10 41	11 7		
1054 67	1206.3		
703 03	804 3		
351 02	401 3		
62	7		
50 92	58.2	58.2	
19 75	22.5		
6.49	7 4		
13.26	15.1		
277.88	317.8		
92.79	106 2		
152.05	174 0		
2.28	2 6		
8.14	9 3		
12.34	14 0		
10.28	11 7		

GRAND TOTAL : 3892.25 4452.0

Made by FWA
 Figured by FWA
 Copied by FWA
 Checked by FWA
 Examined by FWA

Made by 2782
 Figured by Ja
 Copied by Ja
 Corrected by 2782
 Examined by 2782

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

ANNUAL COMPARATIVE STATEMENT OF LABORATORY EXPENSES

YEARS 1912 AND 1911

<u>SALARIES</u>		<u>1912</u>	<u>1911</u>
E.J.Hudson ✓	Chief Chemist	4500.00	4500.00
# A.S.Kittleberger ✓	Ass't "		702.74
C.E.Ott	" "	1800.00	1800.00
Richard Barry ✓	Laboratory Boy (Gladstone)	960.00	960.00
Elmer Frei ✓	" " (Marquette)	450.00	900.00
G. McIntosh ✓	" " (Marquette)	365.00	
Robert Wright ✓	" " (Marquette)	900.00	900.00
# Sidney Katzenstein	Ass't Chemist (Gladstone)	540.00	540.00
TOTAL -		9415.00 ✓	10302.74 ✓
<u>SHOP LABOR</u>			
Repairs to Apparatus		98.47	73.52
<u>CENTRAL POWER EXPENSE</u>		182.38	122.66 ✓
<u>SUPPLIES</u>			
Chemists, Apparatus, etc.		2727.70	2688.90 ✓
<u>TRAVELLING</u>			
E.J.Hudson		916.70 ✓	784.20
Richard Barry			30.00
Sidney Katzenstein			89.35
GRAND TOTAL -		13340.25	14091.37 ✓

<u>PIONEER IRON CO.</u>			
Pig Iron		1337.58 ✓	2115.34
Alcohol		943.63 ✓	1188.18
Acetate		1307.28 ✓	1357.25
Formaldehyde		246.20 ✓	237.58
Acetone		1302.32 ✓	1072.97
Acetic Acid		484.14 ✓	558.21
Sodium Acetate		417.43 ✓	18.06
Acetic Anhydride		325.24 ✓	
Sulphuric Acid		765.90 ✓	359.22
Sulphuric Acid Idle Expense			99.80
Special Products		2953.29 ✓	3873.50 ✓
Analysis	338.29 ✓		470.76 ✓
Chemists	2615.00 ✓		3402.74 ✓

<u>THE CLEVELAND-CLIFFS IRON CO.</u>			
Pig Iron Cost Sheet		1171.35	985.34
Pig Iron Idle Expense			384.00
Alcohol Cost Sheet		775.96	491.62
Alcohol Idle Expense			166.05
Acetate Cost Sheet		727.21	489.88
Acetate Idle Expense			95.97
Special Products		582.72	598.40
Analysis	42.72		58.40 ✓
Chemists	540.00		540.00 ✓

Total as above - \$13340.25 \$14091.37 ✓

Balance A.S.Kittleberger's salary charged to Sulphuric Acid Superintendence.
 Balance Sidney Katzenstein's salary charged to Alcohol and Acetate Superintendence.

should be kind of in accordance with Acct No 28

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

ANNUAL STATEMENT OF LOCOMOTIVE CRANE EXPENSE - YEAR 1912

Hours Operated - 2902

COst Per Hour - 1.148

Acct. No.

201	Maintenance Labor	176.51
202	Maintenance Supplies	104.11
203	Operating Labor	1086.87
204	Fuel - 100 tons coal @ 3.111 ✓	311.08 ✓
205	Lubricants	24.12
207	Depreciation	1631.64 ✓
	TOTAL -	<u>3334.33 ✓</u>

	<u>Hours Operated</u>	<u>Amount</u>
DISTRIBUTION:		
Pig Iron Cost Sheet	2635 ✓	2985.88
Bottom Fillers	61	76.53
Handling Iron	1160	1098.11
Handling Cinder	1396	1785.48
Loading Cars	12	22.86
Trestles & Dock	6	2.90
Alcohol Cost Sheet	14	20.57
Tanks & Stills	7	9.88
Smoke Condensers	7	10.69
Acetate Cost Sheet		
Handling Fuel	4	2.02
Chemical Power Expense		
Boilers	22	25.02
Charcoal Cost Sheet	48	66.21
Wood from Yard	33	47.80
Repairs	15	18.41
Miscellaneous Accounts	179	234.63
New Construction	54	57.62
Supplies	54	74.86
Accounts Receivable	71	102.15
TOTAL -	<u>2902</u>	<u>3334.33 ✓</u>

Made by FWA
 Figured by ✓
 Copied by W.B.A.
 Corrected by W.B.A.
 Examined by W.B.A.

17 1/2

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL STATEMENT OF YARD SWITCHING EXPENSE.

Year 1912.

Cars Handled 9189

Rate per Car .395

Acct. No.		Amount
208	Maintenance, Labor	174.56
209	Maintenance, Supplies	149.99
210	Operating, Labor	2063.67
211	Fuel, 364 tons Coal @ 3.10 ✓	1128.40
212	Lubricants	43.51
213	Tools & Miscellaneous Supplies	3.90
214	Electric Lamps & Wiring	3.63
215	Insurance	3.36 ✓
	Central Power	62.18 ✓
Total		3633.20

DISTRIBUTION

COST SHEET OR ACCOUNT	No. cars	Amount
Pig Iron Cost Sheet	658	250.28
Handling Cinder	139	49.51
Transferring Iron	76	29.86
Switching	443	170.91 ✓
Alcohol Cost Sheet	59	24.04 ✓
Switching	59	24.04 ✓
Acetate Cost Sheet	122	43.02 ✓
Switching	122	43.02 ✓
Special Chemical Products	29	11.78 ✓
Switching	29	11.78 ✓
Miscellaneous Accounts	8321	3304.08
Lake Ore	1112	443.13
Negaunee Ore	558	214.68
Clinton Silica Ore	98	32.11
North Lake Silica Ore	39	14.13
Maas Ore	175	61.35
North Lake Ore	78	31.04
Morris Ore	4	1.58
Purchased Alcohol	8	3.09
Purchased Methyl Acetone	1	.38
Alcohol Returned	1	.39
Stock of Coal	487	198.34
Charcoal	60	23.20
Limestone	124	46.29
Wood Received	5317	2133.42
Supplies	23	9.53
Chemical Supplies	77	30.84
Wood from Yard	142	54.44
Package Expense	5	2.20
New Construction	12	3.94
Grand Total		9189 3633.20

Made by Froa
 Figured by MA
 Copied by MA
 Corrected by Froa
 Examined by MA

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF CENTRAL OFFICE EXPENSE.

YEARS 1912 AND 1911.

Acct. No.				
1	Salaries	22669.50		25403.68
2	Printing & Stationery	1666.36		1835.63
3	Postage	626.10		464.76
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	
	a-2. Proportion Expense charged by Treasurer	586.00		
	d. Salary Visiting Nurse	300.00	300.00	
	f. Miscellaneous Expenses		50.00	
	g. Net Low 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	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	9212.39	5973.43
Pig Iron Idle Expense	Statement			3187.99
Alcohol	Cost Sheet	068	3184.70	2005.25
Alcohol Idle Expense	Statement			582.36
Acetate	Cost Sheet	064	3025.13	2040.87
Acetate Idle Expense	Statement			423.67
Special Products	Statement	003	147.36	161.48
New Construction	Statement	037	1757.56	
PIONEER IRON CO.:				
Pig Iron	Cost Sheet	216	10158.67	13321.24
Alcohol	Cost Sheet	062	2940.67	4218.27
Acetate of Lime	Cost Sheet	088	4160.90	4759.17
Formaldehyde	Cost Sheet	016	763.33	868.36
Acetone	Cost Sheet	089	4106.70	3854.02
Acetic Acid	Cost Sheet	031	1474.37	2057.49
Sodium Acetate	Cost Sheet	027	1260.89	57.91
Acetic Anhydride	Cost Sheet	021	976.83	
Sulphuric Acid	Cost Sheet	044	2069.97	1240.89
Sulphuric Acid Idle Expense	Statement	005	215.57	485.94
Special Products S	Statement	022	1029.31	1761.49
New Construction	Statement	012	557.03	
TOTAL AS ABOVE -		1.000	47121.40	46999.83

Made by Hys 19
 Figured by FA
 Copied by FA
 Corrected by Hys
 Examined by Hys

THE CLEVELAND-CLIFFS IRON CO.,
 Pioneer Iron Co.,
 Furnace Dept.

ANNUAL COMPARATIVE STATEMENT OF DONATIONS MADE FOR YEARS 1912 AND 1911.

<u>To Whom Paid</u>	<u>By Whom & When Authorized</u>	<u>AMOUNT</u>	
		<u>1912</u>	<u>1911</u>
Gladstone Baseball Ass'c	A. Farrell, 8/13/12-2/15/11	25.00	50.00 ✓
Marquette Fire Dept.	" 11/28/12-3/20/11	10.00	20.00 ✓
Salvation Army	" 3/27/12	25.00	
Telephone Cptgs. Ass'c	" 4/22/11		5.00 ✓
Marquette Baseball Ass'c	" 8/2/12- 5/12/11	25.00	25.00 ✓
Hager Bros. Co., Ltd.	" 5/21/12	40.50	
Burial Expenses Peter Lewis			
Louise Weiser, Treas.	" 5/31/12	5.00	
Telephone Cptgs. Ball.			
Mrs. Peter Lewis	" 5/20/12	70.00	
House Rent			
H.A.St. John, Treas.	" 7/2/12	25.00	
Fourth of July Celebration			
J.A. Stewart, Chairman,	" 6/19/11		25.00 ✓
Hospital of Railway Employees			
R. W. Nebel, Sec'y,	" 7/19/12	50.00	
Gladstone Fire Dept.			
W.F. Hammell, Mayor,	" 8/7/11		20.00 ✓
Labor Day Celebration			
Mrs. Julius Pessens	" 9/9/12	96.00	
A/c widow of old employee	75.00		
House Rent	21.00		
Mrs. Gust Streleman	" 9/9/12	48.00	
Board of Mrs. Pessens 3 children			
St. Luke's Hospital	" 9/8/11		100.00 ✓
Repairs to Building			
F.J. Jennison, Treas.	" 9/20/11		50.00 ✓
Taft Day Celebration			
F.J. Jennison, Treas.	" 11/2/12	16.00	
Children's Play Grounds			
Munising Hospital Ass'c	" 12/7/12	10.00	
Mrs. Mary P. Burt, Treas.	" 12/22/11		10.00 ✓
Tuberculosis Hospital Stamps			
<u>TOTAL -</u>		\$445.50 ✓	\$305.00 ✓

Made by AGD
 Figured by JA
 Copied by JA
 Corrected by AGD
 Examined by AGD

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THE CLEVELAND-CLIFFS IRON CO.,
 Pioneer Iron Co.,
 Furnace Dept.

ANNUAL COMPARATIVE STATEMENT OF LEGAL EXPENSES ACCOUNT NO. 8 FOR YEARS 1912 & 1911

	<u>1912</u>	<u>1911</u>
A Salary of Solicitor W.P. Belden	1125.00	1125.00
B Expenses of Solicitor " "	259.67	237.32
C Retainer Fees		3.85
G.R. Empson		
D Litigation and other Legal Expenses	15.00	
Albert Lynn Lawrence		

TOTAL -	1399.67	1366.17 ✓
Charged to:-		
Central Office Expense	1399.67	1347.12
Accounts Receivable		19.05
* Pioneer Iron Co.		

Total as above	1399.67	1366.17 ✓

* Charged to Personal Injury Expense, Alcohol Cost Sheet, account Whitmas Case

Made by ASP
 Figured by JG
 Copied by JG
 Corrected HJ
 Examined by JG

(21)

THE CLEVELAND-CLIFFS IRON CO.
 Furnace Department.

ANNUAL STATEMENT OF PENSIONS PAID YEAR 1912

<u>Record No.</u>	<u>Name</u>	<u>Date Began or Ended</u>	<u>Rate per Mo.</u>	<u>1912</u>	<u>Previous Years</u>	<u>Total To date</u>
1	W.H.Fuller	Aug.1910	✓ 22.35	268.20	379.95 ✓	648.15
2	Ida Wightman	May 1911	✓ 15.00	180.00	120.00 ✓	300.00
TOTAL -				448.20	499.95	948.15

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CLEVELAND-CLIFFS IRON COMPANY

Furnace Department.

STATEMENT OF EXPENDITURES DURING THE YEAR 1912 FOR
SAFETY DEVICES TO MACHINERY AND EQUIPMENT, AND ALL
IMPROVEMENTS MADE FOR SAFETY OF EMPLOYEES.

NO CHARGES FOR 1912.

Made by Pro
Figured by Pro
Copied by W.E.
Corrected by Pro
Examined by Pro

✓4

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

STATEMENT OF UNINSURED PROPERTY
DECEMBER 31st, 1912.

<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 Avo
 Figured by J. E. A
 Copied by J. E. A
 Corrected by J. E. A
 Examined by J. E. A

Made by AGS (25)
 Figured by ✓
 Copied by ta
 Corrected by AGS
 Examined by AGS

THE CLEVELAND-CLIFFS IRON CO.
 Furnace Department.

ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES - ACCOUNT #30
YEARS 1912 AND 1911

<u>ACCT.</u> <u>NO.</u>	<u>PIG IRON</u>	<u>1912</u>	<u>1911</u>
A	Mike Jusko		350.00 ✓
B	Matt Szenan	91.65	
G	" "	53.14	
	TOTAL AS PER COST SHEET	144.79 ✓	350.00

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department

Made by RWA
Figured by CW
Copied by CW
Corrected by [Signature]
Examined by [Signature]

Annual Comparative Statement of Taxes For 1912 and 1911.

	Acres	Valuation	1912 Taxes	Valuation	1911 Taxes
<u>City of Gladstone:</u>					
City Lots & Gov. Lot No. 3		5550.00	247.02	5439.00	322.79
Founder's Cottage		400.00	17.80	400.00	18.59
Asst. Auditor's Res.		1000.00	44.44	1000.00	46.56
Chief Engineer's Res.		1400.00	61.78	1400.00	65.19
Barn Boss' House		450.00	19.96	500.00	23.28
Total		8800.00	391.00	8739.00	476.41
<u>Brampton Township:</u>					
Furnace Plant (Real Estate)	39.20	180000.00	5161.71	180000.00	5092.76
" " (Personal)		200000.00	5742.86	181586.00	5140.09
Limestone Quarry	40.00	100.00	2.88	100.00	2.82
Total	79.20	380100.00	10907.45	361686.00	10235.67
Grand Total	79.20	388900.00	11298.45	370425.00	10712.08

Charged To:-

City of Gladstone:-

W. G. Mather, Treas.	247.02	322.79
Operating Rented Buildings	143.98	153.62
Total	391.00	476.41

Brampton Township:-

Furnace General Exp.	51	5562.80	3163.87
Furnace Idle Expense			2056.32
Alcohol General Expense No. 1	40	4362.98	1936.70
Alcohol Idle Expense No. 1			1134.00
Alcohol General Expense No. 2			620.37
Alcohol Idle Expense No. 2			403.20
Acetate General Expense No. 1	5.8	545.37	258.23
Acetate Idle Expense No. 1			151.20
Acetate General Expense No. 2			62.03
Acetate Idle Expense No. 2			40.32
Operating Rented Buildings	4	436.30	409.43
Total		10907.45	10235.67
Grand Total		11298.45	10712.08

Remarks:-

Taxes on City Lots include \$66.80 Sewer tax for 1911.

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING FISCAL YEARS 1912 - 1911

Account of	Grade	1912			1911		
		Net Tons-Lbs.	Price	Amount	Net Tons-Lbs.	Price	Amount
From Lake Erie ports	Yough $\frac{1}{2}$	4668-1000	2 070	9667 66	18035-0200	2 141	38619 03
" " " "	" $\frac{1}{2}$	93- 500	2 150	200 00			
" Pittsburgh Coal Company					1345-1650	3 200	4306 56
Total		4761-1500	2 072	9867 66	19383-1850	2 215	42925 59
Lake Freight			300	1428 53		279	5411 44
Switching from Gladstone Dock			470	2239 40		048	925 05
Switching in Furnace Yard			041	196 21		009	169 31
Discharging			150	714 26		140	2705 72
Reloading			1 096	5215 42		101	1964 96
Handling			014	68 01		003	62 51
Analysis			005	21 75			
Bonus							
Insurance			002	9 47		006	120 80
Rail Freight						010	201 87
Total		4761-1500	4 150	19760 71	19383-1850	2 811	54487 25
Inventory beginning of year		14693- 300	2 623	38339 41	6959-1250	3 186	22161 94
Grand Total		19454-1800	2 997	58300 12	26343-1100	2 909	76649 19
Charged To:-							
Central Power Plant					1191-0000	3 232	3849 07
No.1 Chemical Power Plant		5826-0000	3 098	18052 04	5381-1000	3 281	17657 56
No.2 Chemical Power Plant		4059-0000	3 098	12577 50	3935-0600	3 268	12865 52
No.1 Acetate Plant		636-0000	3 107	1976 44	361-0000	3 282	1185 54
Retorts		4175-0000	3 102	12958 95	519-0000	3 257	1690 55
Locomotive		364-0000	3 100	1128 40	241-0000	3 276	789 68
Locomotive Crane		100-0000	3 111	311 08	21-1200	3 327	71 86
Total		15160-0000	3 100	47004 41	11650-0500	3 271	38109 78
On hand at end of fiscal year		4294-1800	2 630	11295 71	14693-0300	2 623	38559 41
ANTRACITE SCREENINGS:-							
From Pittsburgh Coal Company		110-1100	2 000	221 10	65-1600	2 122	139 65
" C. Riess Coal Company					1084-0500	2 180	2363 51
" F. B. Spear & Son					275-0300	1 000	275 15
" Consolidated Fuel & Lumber Company		44-1100	1 107	49 32	252-0200	2 000	504 20
" James Pickands & Company							
Total		155-200	1 744	270 42	1677-0600	1 957	3282 51
Freight				362		152	255 53
Switching				014		022	35 96
Handling				035		052	87 29
Total		155- 200	2 155	334 19	1677-0600	2 183	3661 29
Inventory beginning of year		581-1190	2 151	1251 52	1370-0590	2 538	3203 76
Total		736-1390	2 153	1585 71	3047-1190	2 252	6865 05
CHARGED TO:-							
Retorts		736-1390	2 153	1585 71	2466-0000	2 276	5613 53
On hand December 31st., 1912		0-0000		0 00	581-1190	2 151	1251 52

Remarks:-	1912	1911
Lake Freight	.30	.30
Discharging from Vessel	.15	.15
Reloading	.35	.30 & .35
Switching from Dock	.15	.15
Cost of Coal at Lake Erie ports $\frac{1}{2}$ Coal	2.07	2.141
Cost of Coal from Pittsburgh Coal Co. $\frac{1}{2}$	2.15	3.200

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 Gladstone Dock, and to the amount purchased from the Pittsburgh Coal Company, which cost 3.20 per ton.

1912:-
The total cost (4.15) for coal is figured on tons of coal received, but the itemized figures are accumulated on the amount transferred from the Gladstone Dock, as we carried large balance there in 1912. The decreased cost of coal used in 1912 is due to having coal stored at Dock instead of Furnace yard and only shipping over as needed thus saving handling and transferring charge in the furnace yard. The inventory of coal at both Dock and Furnace yard are shown as follows:

3554- 700 tons Yough. @ 2.541 9032.01 Still at Gladstone Dock
 740-1100 " " @ 2.027 2261.70 In stock piles in Furnace yard
 4294-1800 @ 2.630 11295.71

Made by 9.4.12
 Figured by MLF
 Copied by MLF
 Corrected by MLF
 Checked by MLF

Made by
 Figured by
 Copied by
 Corrected by
 Examined by

29

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

COMPARATIVE STATEMENT OF SALARIES AND PERQUISITES
 For the
YEARS 1908 To 1912 Inclusive.

	1913	1912	1911	1910	1909	1908
Manager:-						
Salary		10000 00	10000 00	10000 00	10833 33	10000 00
Salary of Coachman		720 00	720 00	720 00	780 00	720 00
Feeding Horses		432 00	240 00	216 00	234 00	198 80
House Rent		600 00	600 00	600 00	650 00	600 00
Launch			33 00	25 00	25 00	25 00
Total		11752 00	11593 00	11561 00	12522 33	11543 80
Barn Boss, Gladstone:- (1)						
Salary		0 00	0 00	350 00	650 00	600 00
House Rent		0 00	0 00	42 00	78 00	72 00
Total		0 00	0 00	392 00	728 00	672 00
Yard Foreman, Gladstone:-						
Salary		1200 00	1200 00	1200 00	1300 00	1200 00
Feed of Horse (His own)		0 00	0 00	90 00	0 00	120 00
Electric Lights		12 00	12 00	12 00	12 00	0 00
Total		1212 00	1212 00	1302 00	1312 00	1320 00
Founder, Gladstone:-						
Salary		1620 00	1620 00	1620 00	1755 00	1620 00
Electric Lights		12 00	12 00	12 00	12 00	12 00
House Rent		96 00	96 00	96 00	104 00	96 00
Telephone		12 00	12 00	12 00	13 00	12 00
Water (2)		0 00	0 00	0 00	0 00	0 00
Total		1740 00	1740 00	1740 00	1884 00	1740 00
Chief Engineer:-						
Keep of Horse		300 00	240 00	384 00	297 00	150 00
Fuel Superintendent:-						
Marquette Expenses (3)		0 00	0 00	0 00	0 00	266 94
Assistant Auditor:-						
Chemical Supt., Gladstone:-						
Electric Lights (4)		0 00	0 00	0 00	0 00	9 00
Draftsman:-						
Stenographer:-						
Clerks:-						
Use of team to and from Furnace		200 00	180 00	240 00	260 00	240 00
Cashier, Carp Furnace						
Founder, " "						
Chemist, " "						
Use of Horse to and from Furnace (5)		0 00	0 00	0 00	0 00	20 00
Chief Machinist, Gladstone:-						
Electric Lights		12 00	12 00	12 00	12 00	12 00

- Notes:-
- (1) Pensioned August 1st., 1910.
 - (2) Water furnished from artesian well, cost \$331.78.
 - (3) Room rent and board while at Marquette.
 - (4) Chemical Supt. , A. N. Sinclair, died September 1st., 1903.
 - (5) December month only in 1908 account plant closed November 30th., 1907.

THE CLEVELAND-CLIFFS IRON CO.
PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

ACCOUNTING DEPARTMENT.

A. J. PEARCE, ASS'T AUDITOR.

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AUSTIN FARRELL, MANAGER.

MARQUETTE, MICH., February 23rd, 1913.

SUBJECT:

RECEIVED
MAR 24 1913
A. J. PEARCE

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

Dear sir:

The following is the basis 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 Chem. Power Expense	" " " "
Barn Expense	Based on horse hours worked.
Switching Expense	Based on cars switched.
Crane	Based on actual hours worked.
Shop Labor	Based on actual hours worked.

Yours truly,



Assistant Auditor.

EWS*A

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

VACANT PROPERTY
IN THE CITY OF GLADSTONE DECEMBER 31st, 1912.

<u>Lot</u>	<u>Block</u>	<u>Addition</u>	<u>Ward</u>
10	4	Central Avenue	Second
7	7 W. 56 ft. of S. 3 1/2 ft.	" "	"
8	7 W. 56 ft.	" "	"
9	7 W. 56 ft.	" "	"
10	7 W. 56 ft.	" "	"
11	7 W. 56 ft.	" "	"
12	7 W. 56 ft.	" "	"
13	7 W. 56 ft.	" "	"
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 Rws
 Figured by Wba
 Copied by Wba
 Corrected by Wba
 Examined by Wba

THE CLEVELAND-CLIFFS IRON CO.

Furnace Department.

SALES GLADSTONE CITY PROPERTY DURING THE YEAR 1912.

NO SALES.

Made by *Quos*
 Figured by *✓*
 Copied by *QFa*
 Corrected by *Quos*
 Examined by *QFa*

THE CLEVELAND-CLIFFS IRON CO.
Furnace Department.

COMPARATIVE STATEMENT OF MILEAGE
MADE BY CHARCOAL CARS IN ALL SERVICES

Old No.	New No.	1912	1911	1910	1909	1908
119	1			234	198	270
132	2			126	294	324
103	3			# 000	1512	924
124	4		252 ✓	198	226	378
125	5			180	558	288
137	6			198	96	342
117	7			252	270	324
138	8		18 ✓	216	540	342
109	9		420 ✓	1092	1428	1008
101	10		336 ✓	1176	942	564
111	11			72	558	36
112	12			252	396	324
131	13			198	234	378
134	14			72	164	306
136	15			36	366	378
127	16			# 000	378	342
105	17	440	420 ✓	1008	1428	1008
102	18		420 ✓	1176	588	588
104	19		336	1260	420	252
120	20			# 000	242	180
108	21			162	414	234
135	22		252 ✓	198	288	270
110	23			198	486	306
107	24			180	162	354
113	25			252	468	252
116	26		252 ✓	72	88	252
129	27			126	366	306
128	28			234	180	378
118	29			# 000	360	360
Total		440	2706 ✓	9168 ✓	13650 ✓	11268 ✓

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

SUMMARY OF MILEAGE MADE BY CHARCOAL CARS IN VARIOUS SERVICES

	1912	1911	1910	1909	1908
Soo Line Charcoal service					144
Soo Line & E. & L. S. Charcoal (Mashek)		18	3456	6678	7092
Soo Line lime service, Manistique	440	2688	5712	6300	4032
C.&N.W. Charcoal service					
MM&SE Charcoal service, Carp to No. 2 furnace				672	
TOTAL -	440	2706	9168	13650	11268

Made by AWO
Figured by _____
Copied by 9.8.9
Corrected by _____
Examined by _____

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF PLANT ACCOUNT FOR 1912.

No.	AUTHORIZATION		Work to be Completed	Current Year	C O S T			DISPOSITION			Bal. Now Carried Amount	Remarks	
	Amount				Total To date	Unexp'd. Balance	Work was Completed	Cost Sheet or Account	Current Year	Total to date			
53	Twenty 80-Cord Kilns	23509 22	9 12 02		22901 89	12/02	Charcoal	Dep. 3/4 Bu.	1016 03	22901 89	0 00	Based on Charcoal produced	
73	New Still Ho. & App. Sup. Est.	71999 00 13055 00	10 31 05		85472 16	418 16	11/05	Alcohol No. 1	Dep. 15% Yr.	7431 51	85472 16	0 00	
77	Chute Apparatus Sup. Est.	8705 00 10510 00	7 31 06		18546 65		8/06	Alcohol No. 1	" 17% "	2518 90	18546 65	0 00	
72	New Blowing & Pumping Engines Sup. Est.	28390 50 972 00			27275 87			Alcohol No. 1	" 15% "	2996 07	27275 87	0 00	
TOTAL ALCOHOL PLANT NO. 1					131294 68					12946 48	131294 68	0 00	
39	Acetate Plant No. 2	111989 49	1 12 01		7963 40			Acetate No. 2	Dep. 10% Yr.	59 40	7963 40	0 00	
72	New Blowing & Pumping Engines Sup. Est.	9463 50 324 00			6818 96			Alcohol No. 2	" 39% "	2672 56	6818 96	0 00	
TOTAL CHEMICAL PLANT NO. 2					2273 00			Acetate No. 2	" " "	889 65	2273 00	0 00	
					17055 36					3621 61	17055 36	0 00	
81	Dry Floor	4818 00	8 1 06		4787 19		8/06	Acetate No. 1	Dep. 17% Yr.	650 17	4787 19	0 00	
72	New Blowing & Pumping Engines Sup. Est.	9463 50 324 00			9091 95			" " "	" 15% "	795 50	9091 95	0 00	
87	Acetic Acid Storage House	1364 98			1231 32		8/08	" " "	" 25% "	281 79	1231 32	0 00	
TOTAL ACETATE PLANT NO. 1					15110 46					1727 46	15110 46	0 00	
58	Five Double Tenement Houses	6087 40	12 01 02		5010 64		11/02	Rtd. Bldgs.	Dep. Net Ea.	371 91	5010 64	0 00	
59	Club House	3298 30	10 15 02		3515 03	216 73	11/02	" " "	" " "			3515 03	
74	Steam Heater, Engineer's Res.	450 00	9 22 05		450 00		9/05	" " "	" " "	450 00	450 00	0 00	
84	Steam Heater, Auditor's Res.	640 00	11 7 06		640 00		11/06	" " "	" " "	640 00	640 00	0 00	
	Cleaning Site, Walks & Fences		*		495 04		11/02	" " "	" " "	495 04	495 04	0 00	
2	Tenement House Well No. 1	547 19	9 20 98		547 19		10/98	" " "	" " "	547 19	547 19	0 00	
43	Tenement House Well, No. 2	516 65	7 9 01		516 65		7/01	" " "	" " "	231 69	231 69	284 96	
TOTAL HOUSES					11174 55					2735 83	7374 56	3799 99	
GRAND TOTAL PLANT ACCOUNT					197536 94					22047 41	193736 95	3799 99	
72	New Blowing & Pumping Engines Sup. Est.	52575 00 1800 00	6 1 05		5051 08			Pig Iron	Dep. .50 Ton		5051 08	0 00	Based on iron produced.
					27275 87			Alcohol No. 1	" 15% Yr.	2996 07	27275 87	0 00	
					9091 95			Acetate No. 1	" 15% "	795 50	9091 95	0 00	
					6818 96			Alcohol No. 2	" 39% "	2672 56	6818 96	0 00	
					2273 00			Acetate No. 2	" 39% "	889 65	2273 00	0 00	
					50510 86					7353 78	50510 86	0 00	

Remarks:-

* No E & A made covering this expenditure.

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

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

ANNUAL STATEMENT OF EQUIPMENT FOR THE YEAR, 1912.

No.	AUTHORIZATION	Amount	C O S T				DISPOSITION	Current Year	Total to date	Balance Now Carried	
			Work to be Completed	Current Year	Total To date	Unexp'd Work was Completed					Cost Sheet or Account
97											
97	Locomotive Crane	7975.00	11	09	8158 39	183 39	10/09	Optg. Crane Dep. 20% Yr.	1631 64	4894 92	3263 47

THE CLEVELAND-CLIFFS IRON COMPANY
Furnace Department

Made by CWA
Figured by _____
Copied by _____
Corrected by _____
Examined by SP

ANNUAL STATEMENT OF NEW CONSTRUCTION FOR THE YEAR, 1912.

No.	AUTHORIZATION	Amount	C O S T				DISPOSITION			Balance now Carried
			Work to be Completed	Current Year	Total to date	Unexp'd. Balance	Cost Sheet or Account	Current Year	Total to date	
101	Cont. Vacuum Distilling App.	45686 00	✓ 4 1 12	37030 40	50932 94	5246 94	Alcohol Optg.#1 Dep. 20%	5330 00	5330 00	45602 94
102	Cont. Column for Neut. Liquor	7987 40	✓ 4 1 12	4996 69	7534 99	452 41	" " " " "	932 00	932 00	6602 99
	TOTAL			42027 09	58467 93			6262 00	6262 00	52205 93
103	Acetate Evaporator	18375 00	✓ 4 1 12	12387 13	16982 50	1392 50	Acetate Optg. Dep. 20%	2144 00	2144 00	14838 50
104	Acetate Dryer	12630 00	✓ 4 1 12	16401 74	16413 74	3783 74	" " " "	210 50	210 50	16203 24
106	Acetate Ribbon Dryer	9685 00	✓ 12 1 12	11544 51	13932 64	4247 64	" " " "	161 40	161 40	13771 24
	TOTAL			40333 38	47328 88			2515 90	2515 90	44812 98
GRAND TOTAL NEW CONSTRUCTION				82360 47	105796 81			8777 90	8777 90	97018 91

THE CLEVELAND-CLIFFS IRON CO.
Furnace Dept.

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN
CHARGED OFF DECEMBER 31ST., 1912

E.&A. No.	Description	Amount Authorized	Total Cost To Date
<u>FURNACE GROUP:-</u>			
4	Switch Engine	2995.30 ✓	3043.75 ✓
1	Extension to Office	517.00 ✓	517.00 ✓
13	Addition to locomotive house		258.59 ✓
14	Cinder Derrick		183.46 ✓
15	Furnace condenser pipe line		377.39 ✓
16	Ore Crusher	4457.35 ✓	4058.55 ✓
17	Boat House		96.45 ✓
18	Railroad track scales	1142.73 ✓	1142.73 ✓
19	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 trest le	1295.28 ✓	1275.28 ✓
34	Air pump and condenser		520.02 ✓
36	Locomotive house, brick veneering		252.10 ✓
37	Locomotive water tank		80.66 ✓
38	Founder's cottage well		331.78 ✓
42	Supply house		1387.55 ✓
50	Fence around tennant houses	1103.52 ✓	1432.81 ✓
51	Painting company houses		806.79 ✓
65	New Barn	260.74 ✓	260.74 ✓
67	New cast house walls	3222.53 ✓	3306.56 ✓
	Road to furnace		800.00 ✓
	Rented houses		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 ✓
53	Twenty 80 cord Kilns	23509.22 ✓	22901.89 ✓
<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 Chem. 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	Artemian Well		2085.04 ✓
22	Tar Tanks		153.59 ✓
33	Column and still No. 5	1673.64 ✓	1673.64 ✓
35	Bath House	272.82 ✓	272.82 ✓
39	Retort Plant		58499.72 ✓
46	Covering tanks and stills		760.00 ✓

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT WHICH HAS BEEN CHARGED OFF DECEMBER 31ST., 1912.

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 ✓
73	New Still house & apparatus	85054.00 ✓	2823.11 ✓
77	Chute apparatus	19215.00 ✓	85472.16 ✓
72	New Blowing & pump engines	29362.50	18546.65 ✓
			27275.87 ✓
<u>CHEMICAL PLANT NO. 2 GROUP:-</u>			
48	Covering tanks & Stills		475.00 ✓
49	Reed Water heater	679.21 ✓	638.03 ✓
76	Addition to barrel storage house	188.54 ✓	273.11 ✓
39	Chemical Plant No. 2		61141.90 ✓
39	Acetate Plant No. 2		7963.40 ✓
72	New Blowing and pump engines	9787.50 ✓	9091.90 ✓
<u>ACETATE NO. 1 GROUP:-</u>			
e	Ovens		230.83 ✓
f	Tanks		86.62 ✓
g	Piping tanks		143.31 ✓
h	Storage house		6.48 ✓
1	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 ✓
81	New Dry Floor	4818.00 ✓	4787.19 ✓
72	New Blowing & Pump Engines	9787.50 ✓	9091.95 ✓
87	Acetate storage house	1364.98	1231.32 ✓
<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	Foundation Ass't Auditor, Res'd	402.80 ✓	265.58 ✓
93	Foundations Eng'r Res'd	380.16 ✓	245.00 ✓
58	Five double tenement houses	6087.40 ✓	5010.64 ✓
74	Steam heater Chief Engineer's house	450.00 ✓	450.00 ✓
84	" " Auditor's Res'd	640.00 ✓	640.00 ✓
	Cleaning site, Walks and fences		495.04 ✓
2	Tenement house in Well, No. 1		547.19 ✓

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THE CLEVELAND-CLIFFS IRON CO.
PIONEER FURNACE NO. 1.

Special Iron

Pig Iron Stock Report for the Week Ending Special Iron December 31st, 1912

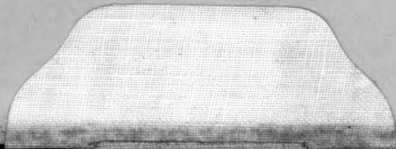
PIG IRON GRADES	PRODUCTION							SHIPMENTS				Balance in Stock	
	Current Week	Total for Month	Over and Short for Season	Total Produced Since Jan. 1st, 1912	Transferred to and from	On Hand Jan. 1st, 1912	Total Produced and in Stock Since Jan. 1st, 1912	Current Week	Total for Month	Over and Short for Season	Total Since Jan. 1st, 1912.		
A. A. Scotch													
A Scotch													
B Scotch						41	41					41	
C Scotch						54	54					54	
No. 1 Low						52	52					52	
No. 1 High						221	221				25	196	
No. 2 Low						291	291					291	
No. 2 High						2397	2397					2397	
No. 3 Low					25	3643	3618				25	3793	
No. 3 High						2593	2593				672	1921	
No. 3 Low Car Wheel													
No. 3 High Car Wheel													
No. 4 Low			3	3	140	603	460			3	22	438	
No. 4 High					46	446	400					400	
No. 4 Low Car Wheel													
No. 4 High Car Wheel													
No. 5 Low						775	775					775	
No. 5 High						377	377					377	
No. 6						446	446					446	
TOTAL				3	3	211	12139	11923			3	744	11161
All Rail Shipment												75	
Lake Shipment										3	669		
Regular Grades	843	2567	7	32461	211	22939	55611	771	2106	7	21736	33875	
Total Regular and Special Grades	843	2567	3	32458		35078	67536	771	2106	10	22460	45056	

THE CLEVELAND-CLIFFS IRON COMPANY.
FURNACE DEPARTMENT.

Stock Report of Chemical Products for the Month ending DECEMBER, 1912. (41)

COMMODITY	PRODUCED AND RECEIVED.							SHIPPED AND USED.						
	TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 1912.	Total on Hand Jan. 1st, 1912.	Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Months	Overruns and Shortages	Total from Jan. 1st, 1912.	Balance on Hand
	As Per Cost Sheet	By Grades							As Per Cost Sheet	By Grades				
Alcohol Plant No. 1	Gals. 95%	20000 ✓	18760 1/2	247 1/2	207357 ✓	28556	235913		Shipped and Used	95%	28077	183753	247 1/2	211582 1/2
	95%	3190	3190	88052	247 1/2	90994 1/2	28556	Shipped	95%	13683	115605	247 1/2	129040 1/2	
	96%	9743	9642	21423 1/2		31065 1/2		Used	95%	14394	68148		82542	X
	97%	6895 1/2	6754	47301		54055		Grades Shipped						
	98%			1800		1800		Gals. 95%	10667	10667 ✓	83200 1/2	247 1/2	93620 ✓	93620
	98%							" 97"	3016	2954 ✓	26840		29794 ✓	30418 1/2
	99%	171 1/2	165	2663 1/2		26799 1/2		" 98"						
								" 99"			4800		4800 ✓	5002
								Grades Used in						
								Denaturing	96%	9743	9642	21423 1/2		31065 1/2
							Diamond Spirits	99"	104	100	6713 1/2		6813 1/2	7099
							Special Spirits No. 1	99"			5642		5642	5879
							Perfume Spirits	99"			154 1/2		154 1/2	161
							Soap	99"			502		502	523
							Solvent No. 1	"						
							" " 8	99"	67 1/2	65	8322 1/2		8387 1/2	8740 1/2
							Special Alcoo	95%			1000		1000	1000
							" " 10100	97"			1000		1000	1021
							Solvents #34	98"			1800		1800	1857 1/2
							" " #34	99"			500		500	52 1/2
							Denaturing	97	2858 1/2	2800	11994 1/2		14794 1/2	15105 1/2
							Methyl Acetone A	"	1021	1000	1648 1/2		2648 1/2	2704
							" " AA	"			5584 1/2		5584 1/2	5701 1/2
							" " AAA	"			233 1/2		233 1/2	238 1/2
							Spl. Alcoo. #10	95%	600	600 ✓	600		600	600
		19751	185211	247 1/2	204714 1/2	28556	233270 1/2			27828	181359 1/2	247 1/2	208940	
Alcohol Plant No. 2	Gals. 95%		74868		74868 ✓	8290	83158	Shipped and Used	95%		83158		83158	
	95%		54592		54592	8290	62882	Shipped	95%		70228		70228	
	96%		8477 1/2		8477 1/2		8477 1/2	Used	95%		12930		12930 ✓	
	97%		11470		11470		11470	Grades Shipped						
								Gals. 95%			62882		62882 ✓	
								" 97"			7195 1/2		7195 1/2 ✓	
								" 98"						
								" 99"						
								Grades Used in						
								Denaturing	96%			8477 1/2		8477 1/2
							Diamond Spirits	"						
							Special Spirits No. 1	"						
							Perfume Spirits	"						
							Soap	"						
							Solvent No. 1	"						
							" " 8	"						
							" " 11	"						
							" " 12	"						
							" " "	"						
							" " "	"						
							Denaturing	97			4274 1/2		4274 1/2	
							Methyl Acetone A	"						
							" " AA	"						
							" " AAA	"						
			74539 1/2		74539 1/2	8290	82829 1/2				82829 1/2		82829 1/2	

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PIONEER IRON COMPANY.

FURNACE DEPARTMENT

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PIONEER IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF PIG IRON COST SHEETS

FOR THE YEARS 1912 AND 1911

Production for the Year 1912.....	<u>34712</u> Gross Tons	Daily Average <u>.978</u> Tons	Days Operated <u>355</u>	Days Idle <u>11</u>
Production for the Year 1911.....	<u>33769</u> " " "	Daily Average <u>.93</u> " "	Days Operated <u>363</u>	Days Idle <u>2</u>

Acct. No.			Year 1912				Year 1911			
			Labor	Supplies	Total	Cost per Ton	Labor	Supplies	Total	Cost per Ton
	Tons made 1st. Blast	212816								
	Tons made 2nd. Blast	137579								
GENERAL EXPENSE:-										
	Insurance									
	Taxes			5132 00	5132 00	148		7173 24	7173 24	212
	Analysis	<u>1912</u> <u>1911</u>	944 65	392 93	1337 58	038	944 64	1170 70	2115 34	063
	Central Office Expenses	21 1/2% 26 1/2%	6551 83	3606 84	10158 67	293	8634 75	4686 49	13321 24	395
	Personal Injury Expenses			256 45	256 45	007		39 45	39 45	001
	TOTAL		7496 48	9388 22	16884 70	486	9579 39	13069 88	22649 27	671
MAINTENANCE:-										
	Buildings		336 63	241 07	577 70	017	348 98	268 70	617 68	018
	Machinery		473 74	936 14	1409 88	041	140 29	142 99	283 28	008
	Tuyeres		23 71	167 50	191 21	005	151 20	112 72	263 92	008
	Pig Iron Trucks, Coal & Ore Buggies		642 37	500 85	1143 22	033	611 71	282 48	894 19	027
	Dry Blast		77 42	39 23	116 65	003	338 94	110 22	449 16	013
	Stack		57 62	54 35	111 97	003				
	Stoves		42 65	40 08	82 73	002	66 48	13 40	79 88	002
	Sewer		404 64	5 43	410 07	012	419 12	12	419 24	012
	Trestles & Dock		328 10	804 85	1132 95	033	555 06	239 66	794 72	024
	Tracks & Yard		841 99	226 51	1068 50	031	1445 14	668 46	2113 60	063
	Cleaning Up		826 58	238 31	1064 89	031	1468 88	14 13	1483 01	044
	Relinings & Renewals			3473 80	3473 80	100		3382 20	3382 20	100
	Safety Devices			103 60	103 60	003				
	TOTAL		4055 45	6831 72	10887 17	314	5845 80	5235 08	10780 88	319
OPERATING:-										
	Founders, Keepers & Helpers		11520 67	3 45	11524 12	332	12193 52		12193 52	361
	Coal Forkers		9033 03	1409 02	10442 05	301	8992 01	495 61	9487 62	281
	Bottom Fillers		8033 85	51 88	8085 73	233	4682 41	105 29	4787 70	142
	Top Fillers		1503 60		1503 60	043	1519 98		1519 98	045
	Handling Iron		6259 23	246 45	6505 68	187	5566 91	142 59	5709 50	169
	Handling Cinder		3571 57	990 33	4561 90	131	4442 94	1088 56	5531 50	164
	Weighing & Grading Iron		700 20		700 20	020	711 75		711 75	021
	Machinery		2344 53	1018 06	3362 59	097	2354775	1457 47	3812 22	113
	Dry Blast		2557 49	889 91	3447 40	099	1551 18	413 90	1965 08	058
	Electric Lamps & Wiring		80 35	183 95	264 30	008	150 40	222 32	372 72	012
	Casting Tools		751 09	968 15	1719 24	050	721 40	734 52	1455 92	043
	Sand & Clay		1893 79	846 40	2740 19	079	1940 69	361 23	2301 92	068
	Cleaning Stoves		227 63	899 85	1127 48	033	354 80	330 96	685 76	020
	Central Power Expenses		1803 30	446 33	2249 63	065	1820 69	237 69	2058 38	061
	TOTAL		50280 33	7953 78	58234 11	1 678	47003 43	5590 14	52593 57	1 558
STOCK USED:-										
	Phosphate Rock			832 01	832 01	024				
	Ores			176652 92	176652 92	5 090		201847 97	201847 97	5 978
	Charcoal			274983 77	274983 77	7 922		252067 28	252067 28	7 468
	Limestone			2974 63	2974 63	086		2971 06	2971 06	088
	TOTAL			455443 33	455443 33	13 122		456886 31	456886 31	13 531
	Cost of Production		61832 26	479617 05	541449 31	15 600	62128 62	480781 41	542910 03	16 079
DEPRECIATION:-										
	Plant Account			34738 00	34738 00	1 000		33822 00	33822 00	1 000
	Supply Inventory			8 50	8 50	000		63 10	63 10	002
	TOTAL			34729 50	34729 50	1 000		33785 90	33785 90	998
	Wood Shortage at Camps			26159 34	26159 34	753				
	Fire Loss at Camps							2255 90	2255 90	067
	Total Cost on Yard	T	61832 26	540505 89	602338 15	17 353	62128 62	516796 21	578924 83	17 144
SHIPPING EXPENSES:-										
	Freight Allowance	<u>1912</u> <u>1911</u>								
	Loading Cars	9507 Tons 4316		667 31	667 31	070		302 12	302 12	070
	Loading Vessels	13918 " 19855	1284 60	5416 25	6700 85	481	3651 76	6358 21	10010 97	504
	Switching	23425 " 4316	164 48	108 25	272 73	012	30 28	23 69	53 97	013
	TOTAL		1449 08	6191 81	7640 89	220	3682 04	6684 02	10367 06	307
GRAND TOTAL COST										
			63281 34	546697 70	609979 04	17 573	65810 66	523481 23	589291 89	17 451
	Plant Account not charged off				188465 67				223203 67	
	Cost per ton for labor				1.823				1.949	

	SUMMARY OF COST PER TON						YIELDS	
	On Yard	On Cars	On Vessels	On Yard	On Cars	On Vessels	1912	1911
Cost on Yard as above	17 353	17 353	17 353	17 077	17 077	17 077	502 Ores	502
Cost to load as above		082	493		083	504	93 1/2 Coal	96 1/2
Total	17 353	17 435	17 846	17 077	17 160	17 581	142 Flux	150
Commissions and Expenses, Cleveland Office	350	350	350	350	350	350		
Total cost	17 703	17 785	18 196	17 427	17 510	17 931		

Dry Blast operated 355 days during 1912 and 242 days during 1911.

High charges to the account "Coal Forkers" Supplies, due to the brands used for heating purposes during the winter months.

High charges to the account "Bottom Fillers" during 1912, due to using ore from the Stock House floor instead of from the ore bins.

High charges to the account "Handling Iron" during 1912, due to the congested condition of the Iron Yard, which made the rehandling of considerable iron necessary.

During 1911 the Yard Switching on iron shipped by vessel was charged to Loading Vessels.

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

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

O R E S	Per Cent Used	Tons	1 9 1 2		Amount	Cost Per Ton	Per Cent Used	1 9 1 1		Amount	Cost Per Ton
			Lbs.	Price				Tons	Lbs.		
L a k e	.608	42283-1668		2.692	113815.63 ✓		.630	42380-1691 ✓	3.244	137472.89	
" Over-run		1010-2228		2.692	2721.61 ✓	3.201		595-1791 ✓	3.244	1932.78	4.014
Negaunee	.123	8410-1017		2.875	24176.46 ✓		.162	10940-1991 ✓	3.270	35770.35	
" Over-run		61-0997		2.875	176.53 ✓	.691		206-1231 ✓	3.270	675.25	1.038
Clinton Silica	.083	5773-1144		1.455	8401.37 ✓		.148	10049-0998 ✓	1.467	14891.66	
" " Over-run		146-1824		1.455	213.59 ✓	.236		253-1778 ✓	1.467	372.32	.430
Cliffs Shaft	.006	400-0000		3.555	1421.71 ✓	.041	.046	3046-1260 ✓	4.077	12419.07	.368
Clinton	.033	2212-0760		2.572	5689.79 ✓	.164					
North Lake	.089	6016-0980		2.393	14394.51 ✓	.415	.000	49-0540 ✓	3.029	148.48	.004
North Lake Silica	.003	193-1280		1.433	277.32 ✓	.008	.001	76-0860 ✓	1.654	125.77	.004
M o r r i s	.001	99-1540		2.400	239.21 ✓	.007					
M a a s	.054	3688-0060		3.465	9314.18 ✓	.268	.004	290-1600 ✓	3.173	922.58	.027
Cambridge							.000	18-0000 ✓	3.523	63.43	.002
Pyrites Cinder							.009	582-1271 ✓	4.035	2350.02	.070
Thawing Ore					976.10 ✓	.028				390.56	.012
Bonuses account ore analysis					1351.12	.039				826.84	.025
Penalties account ore analysis					292.75	.008				272.51	.008
Adjustment ore prices										280.82	.008
T O T A L S	100%	67858-1160 ✓		2.603	176652.92	5.090	100%	66378-0931 ✓	3.041	201847.97	5.978 ✓
L i m e s t o n e		2203-1240 ✓		1.350	2974.63 ✓	.086		2267-1740 ✓	1.311 ✓	2971.06 ✓	.088 ✓
C h a r c o a l (Bushels)		3239652 ✓		.0849	274983.77	7.922		3246905 ✓	.0776 ✓	252067.28 ✓	7.465 ✓
Phosphate Rock (Gross Tons)		83-0440 ✓		10.000	832.01 ✓	.024					

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

ANNUAL COMPARATIVE
WOOD AND CHARCOAL COST SHEET.

MONTH OF YEARS 1912 & 1911.....191.....

Item No.	CORDWOOD	MONTH OF 191.....			YEAR 1912 MONTHS, 191.....			YEAR 1911 MONTHS, 191.....						
		Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord	Cords	Amount	Cost per Cord				
	Wood Received at Furnace				75100	198173	68	2	72269	168481	93	2	332	
	From Lumbering Dept.													
	From other Sources													
	Freight					37546	48	500		36134	75	500		
	Measuring					600	00	008		600	00	008		
	Switching					2106	32	028		1754	25	024		
	TOTAL				75100	238426	48	3	72269	206970	93	2	864	
	Distribution													
	To Kilns				74434	236310	08	3	71308	204263	92	2	865	
	To Retorts				232	725	86	3	122	486	59	2	666	
	To Retort Yard									346	947	89	2	734
	To Yard				433	1390	54	3	208	431	1272	53	2	948
	TOTAL				75100	238426	48	3	72269	206970	93	2	864	
	Wood on Yard													
	Wood Received				433	1390	54	3	208	431	1272	53	2	948
	Unloading and Piling										59	83	139	
	TOTAL				433	1390	54	3	208	431	1332	54	3	087
	CHARCOAL	Kilns Fired	Kilns Drawn	Kilns Idle	Kilns Fired	Kilns Drawn	Kilns Idle	Kilns Fired	Kilns Drawn	Kilns Idle	Kilns Fired	Kilns Drawn	Kilns Idle	
					1135	1125	0000	1101	1106	000	1101	1106	000	
		Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.	Bushels	Amount	Cost per Bu.	
	Kilns:				3187758			3448904						
	Wood from Cars					236310	08	0741		221719	06	0642		
	Wood from Yard									4495	08	0013		
	Loading and Sw'g in Yard									599	33	0002		
	Packing					15744	84	0049		15355	63	0045		
	Colliers					4079	50	0013		4058	42	0012		
	Whitewashing					1673	90	0005		1576	28	0005		
	Cleaning and Screening					1860	60	0006		1825	46	0005		
	Braze Cartmen					1994	99	0006		2117	54	0006		
	Repairs					2097	07	0007		6746	98	0020		
	Depreciation					7969	41	0025		8622	27	0025		
	TOTAL COST					271730	39	0852		3448904	267186	04	0775	
	Cost per Cord						3.175				2.89			
	Cords Carbonized						74134			78469				
	Yield per Cord						42.8			44.0				
	Yield per Kiln in Battery						3059			3342				
	Cords per Kiln in Battery						72			76				
	Retorts:				12120			21584						
	Wood					819	06	0676		1251	16	0550		
	Foreman									3	08	0001		
	Painting and Drawing					87	46	0072		131	39	0061		
	Splitting Wood					48	00	0064		135	96	0064		
	Firing					231	10	0191		437	12	0203		
	Repairing					774	03	0639		1757	01	0814		
	Handling Fuel					15	85	0013		74	05	0034		
	Fuel					143	32	0118		291	27	0135		
	TOTAL COST					2148	84	1773		21584	4084	06	1892	
	Cost per Cord						3.15				2.80			
	Cords Carbonized						260			463				
	Yield per Cord						46.6			46.6				
	Pounds Coal per Cord						365			501				
	From Outside Sources:													
	Mashek Chem. & Iron Co.				72735			30920						
	Coal					3273	18	0450		1855	20	0600		
	Freight					1455	40	0200						
	Switching					16	45	0002						
	Repairing Cars									8	50	0002		
	Insurance on Cars													
	TOTAL COST				72735	4745	07	0652	30920	1863	70	0602		
	Coal													
	Freight													
	Switching													
	Repairs Cars													
	Insurance on Cars													
	TOTAL COST													
	GRAND TOTAL				3272613	278624	26	0851	3501405	271133	81	0780		

Remarks:

Plant Account not charged off
New Construction not charged off

32085.00

40055.43

1912
Coal used at Retorts 12 nos. 50 tons @ 2.866

1911.
111 tons Yough. @ 2.412
4-1900 tons Pocahontas @ 4.75

Wood Used at Retorts 27 1/2 cords from yard during 1912.

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

Made by:
Figured by:
Checked by:
Examined by:

PIONEER IRON CO.,
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF ALCOHOL COST SHEETS FOR 1912 AND 1911

Production for the Year 1912 317057½ Gallons .95% Daily Average 866 Gallons Days Operated 366 Days Idle None
 Production for the Year 1911 225336 Gallons .95% Daily Average 802 Gallons Days Operated 365 Days Idle None

Acct. No.	Year 1912				Year 1911			
	Labor	Supplies	Total	Cost per Gallon	Labor	Supplies	Total	Cost per Gallon
GENERAL EXPENSE:-								
Insurance		5199 96	5199 96	017		5199 96	5199 96	018
Taxes		4438 00	4438 00	014		5852 65	5852 65	020
Analysis	1912 1911	556 65	386 98	003	785 47	402 71	1188 18	004
Central Office Expense	6.2 9.1%	1867 25	1053 42	009	2713 44	1504 83	4218 27	014
Personal Injury Expense					209 00	2862 55	3071 55	010
	Total	2443 90	11078 36	043	3707 91	15822 70	19530 61	066
MAINTENANCE:-								
Buildings		119 29	123 82	001	214 09	142 98	357 07	001
Tanks & Stills		1979 53	3882 32	018	1572 19	2173 22	3745 41	013
Condensers		130 35	413 59	002	6 61	81 15	87 76	000
Machinery		211 17	370 08	002	265 09	529 02	794 11	003
Smoke Mains		158 43	51 20	001	162 73	32 37	195 10	001
Sewer		392 47	1 62	001	125 66	24 58	150 24	000
Tracks and Yards		234 63	57 43	001	195 03	83 32	278 35	001
Cleaning Up		259 27	75 29	001	347 06	14 13	361 19	001
Safety Devices		8 58	323 14	001				
	Total	3493 72	5298 49	028	2888 46	3080 77	5969 23	020
OPERATING:-								
Superintendent		453 00	453 00	002	552 75		552 75	002
Stillmen		5886 16	605 46	020	8918 69	352 10	9270 79	032
Condensermen		990 25	3 54	003	999 76	18 43	1018 19	003
Machinery		213 77	222 59	002	20 06	279 46	299 52	001
Electric Lamps & Wiring		56 89	100 59	001	157 78	369 97	527 75	002
Filter	1912 1911	283 71	81 10	001	467 83	242 58	710 41	002
Central Power Expense	26.3 30%	3582 22	7734 86	035	3823 58	7050 83	10874 41	037
Chemicals		4 17	1333 60	004		976 95	976 95	003
Freight on Alcohol Returned								
	Total	11470 17	10081 74	068	14940 45	9290 32	24230 77	082
	Cost of Production	17407 79	26458 59	139	21536 82	28193 79	49730 61	168
DEPRECIATION:-								
Plant Account			72854 10	230		68770 70	68770 70	233
New Construction			7741 24	023		8662 92	8662 92	029
Appreciation of Inventory			15 95	001		55 02	55 02	000
E.&A. 87 - Motor Generator Set.			88 34	002				
	Total		80667 73	254		77378 60	77378 60	262
	Total Cost	17407 79	107126 32	393	21536 82	105572 39	127109 21	430
SHIPPING EXPENSE:-								
Gallons Shipped	1912 1911							
Packages	37587½ 68434½		1390 50	037	274 42	2017 70	2292 12	034
Loading	" "	45 59	24 06	002	89 71	34 48	124 19	002
Switching		2 07	1 37	000	3 30	1 90	5 20	000
	Total	47 66	1415 93	004	367 43	2054 08	2421 51	009
	Total Cost on Cars	17455 45	108542 25	397	21904 25	107626 47	129530 72	439
Plant Account not charged off			66965 27	✓			121449 06	✓
New Construction not charged off							26249 98	✓
Smoke received from 71868 cords, 1912				Yield	4.41		147699 04	
Smoke received from 70530½ cords, 1911							Yield	4.19

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

ANNUAL COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1912 AND 1911

Production for the Year 1912	5353640 Pounds	Daily Average	14868 Pounds	Days Operated	360	Days Idle	6
Production for the Year 1911	6006900 Pounds	Daily Average	16454 Pounds	Days Operated	365	Days Idle	None

Acct. No.	Year 1912				Year 1911				
	Labor	Supplies	Total	Cost per Cwt.	Labor	Supplies	Total	Cost per Cwt.	
GENERAL EXPENSE:-									
Taxes		693 40	693 40	013		853 13	853 13	014	
Analysis	1912 1911	780 42	526 86	1307 28	024	894 78	462 47	1357 25	023
Central Office Expense	8.8 10.2%	2656 21	1504 69	4160 90	078	3090 46	1668 71	4759 17	079
Personal Injury Expense									
Total		3436 63	2724 95	6161 58	115	3985 24	2984 31	6969 55	116
MAINTENANCE:-									
Buildings		144 40	129 11	273 51	005	80 61	56 84	137 45	002
Tanks and Stills		2563 69	3935 57	6499 26	121	481 97	547 56	1029 53	017
Machinery		242 42	440 45	682 87	013	89 23	139 78	229 01	004
Dryer		482 66	623 40	1106 06	021	227 23	176 09	403 32	007
Tracks and Yards		338 45	81 72	420 17	008	54 09	31 30	85 39	002
Cleaning Up		326 51	95 43	421 94	008	70 14		70 14	001
Safety Devices		3 64	3 20	6 84	000				
Total		4101 77	5308 88	9410 65	176	1003 27	957 87	1954 84	033
OPERATING:-									
Superintendent		618 00		618 00	012	630 45		630 45	010
Stillmen		6737 31	176 17	6913 48	129	942 29	34 73	977 02	016
Dryermen		4842 99	171 77	5014 76	094	1578 30	15 37	1593 67	027
Condensermen		994 95		994 95	018	999 76	18 43	1018 19	017
Machinery		375 25	338 81	714 06	013		200 76	200 76	003
Electric Lamps & Wiring	1912 1911	25 11	171 85	196 96	003	71 19	80 59	151 78	003
Central Power Expense	36.6 57%	4944 29	10782 21	15726 50	294	7234 59	13411 02	20645 61	344
Handling Fuel	1912 1911	36 18	5 10	41 28	001	71 36	25 38	96 74	002
Fuel (Tons)	403 821		1125 37	1125 37	021		2262 57	2262 57	038
Lime			7672 00	7672 00	143		9090 25	9090 25	151
Handling Acetate		227 84	70 85	298 69	006	457 14	92 85	549 99	009
Storage						3 60		3 60	000
Contractors						6886 07	70 00	6956 07	116
Weighing						695 03	45 47	740 50	012
Total		18801 92	20514 13	39316 05	734	19569 78	25347 42	44917 20	748
Cost of Production		26340 32	28547 96	54888 28	1.025	24558 29	29283 30	53841 59	897
DEPRECIATION:-									
Plant Account			8609 60	8609 60	161		6504 67	6504 67	108
New Construction			4966 34	4966 34	093		3354 30	3354 30	056
Appreciation of Inventory			26 60	26 60	000		8 09	8 09	000
E.&A. 87 Motor Generator Set.			135 47	135 47	002				
Total			13684 81	13684 81	256		9850 88	9850 88	164
Total Cost		26340 32	42232 77	68573 09	1.281	24558 29	39134 18	63692 47	1.061
SHIPPING EXPENSE:-									
Pounds Shipped	1912 1911								
Sacks			91 95	91 95	002	1 80	872 38	874 18	014
Loading									
Switching									
Total			91 95	91 95	002	1 80	872 38	874 18	014
Grand Total		26340 32	42324 72	68665 04	1.283	24560 09	40006 56	64566 65	1.075
Plant Account not charged off									
Construction Account not charged off									
Smoke received from 65058 cords, 1912									
Smoke received from 69621 1/2 Cords, 1911									
Yield 82.3									
Yield 87.2									
Made by <u>AS</u>									
Figured by <u>AS</u>									
Copied by <u>AS</u>									
Corrected by <u>AS</u>									
Examined by <u>AS</u>									

Remarks:-

(1911) High charges to Analysis and Central Office Expense due to the Gladstone plants being idle for a portion of the year.
Fuel - 1912 - 403 tons @ 2.792 1911 - 821 tons @ 2.757.

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF FORMALDEHYDE COST SHEETS FOR 1912 AND 1911

Production for the Year 1912 1480468 Pounds Daily Average 4056 Pounds Days Operated 365 Days Idle 1
 Production for the Year 1911 1402690 Pounds Daily Average 3843 Pounds Days Operated 365 Days Idle None

Acct. No.	38-40% by weight in quality	Year 1912				Year 1911				
		Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound	
GENERAL EXPENSE:-										
	Taxes		277 46	277 46	0002		385 65	385 65	0003	
	Analysis	1912 1911	143 53	102 67	246 20	0002	158 50	79 08	237 58	0002
	Central Office Expense	1.6% 1.9%	488 64	274 69	763 33	0005	545 78	322 58	868 36	0006
	Personal Injury Expense									
	Total		632 17	654 82	1286 99	0009	704 28	767 31	1491 59	0011
MAINTENANCE:-										
	Buildings		17 28	31 57	48 85	0000	8 75	22 12	30 87	0000
	Tanks and Stills		128 27	336 95	465 22	0003	122 11	396 89	519 00	0004
	Machinery		14 23	15 78	30 01	0000	33 40	94	34 34	0000
	Tracks and Yards		62 02	15 55	77 57	0001	21 83	16 31	38 14	0001
	Cleaning Up		61 42	17 95	79 37	0001	27 50		27 50	0000
	Safety Devices			21 09	21 09	0000				
	Total		283 22	438 89	722 11	0005	213 59	436 26	649 85	0005
OPERATING:-										
	Superintendent		115 50	30	115 80	0001	110 10		110 10	0001
	Stillmen		2351 25	8 31	2359 56	0016	2428 75	5 28	2434 03	0017
	Machinery		4 70	60 58	65 28	0001		30 05	30 05	0000
	Electric Lamps & Wiring	1912 1911	5 77	23 46	29 23	0000	55 76	8 41	64 17	0000
	Central Power Expense	7.9% 4%	1085 42	2329 50	3414 92	0023	488 09	943 14	1431 23	0010
	Alcohol			80838 52	80838 52	0546		78354 81	78354 81	0559
	Copper Netting			503 88	503 88	0003		202 30	202 30	0001
	Total		3562 64	83764 55	87327 19	0590	3082 70	79543 99	82626 69	0588
	Cost of Production		4478 03	84858 26	89336 29	0604	4000 57	80777 56	84768 13	0604
DEPRECIATION:-										
	Plant Account			5239 98	5239 98	0035		5354 50	5354 50	0038
	New Construction							4 85	4 85	0000
	Appreciation of Inventory			11 70	11 70	0000				
	<i>Notes Generator set etc A 87</i>			5 87	5 87	0000				
	Total			5234 15	5234 15	0035		5349 65	5349 65	0038
	Total Cost		4478 03	90092 41	94570 44	0639	4000 57	86127 21	90117 78	0642
SHIPPING EXPENSE:-										
	Pounds Shipped	1912 1911								
	Packages	1482817 1357979		9564 45	9564 45	0064	11 53	9068 48	9080 01	0067
	Loading	" "	286 20	156 23	442 43	0003	258 58	88 07	346 65	0003
	Switching	" "	11 25	8 53	19 78	0000	10 33	8 33	18 66	0000
	Total		297 45	9729 21	10026 66	0068	280 44	9164 88	9445 32	0068
	Total cost on cars		4775 48	99821 62	104597 10	0707	4281 01	95292 09	99563 10	0710
	Plant Account not charged off				5016 28				10256 20	
	Construction Account not charged off									
	Gallons alcohol used during 1912 - 206854 @ .391					Yield				Yield
	Gallons alcohol used during 1911-197200 @ .397					716				711

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

REMARKS:- Alcohol charged at .391
 Plant operated to full capacity the equivalent of 304 1/2 days during 1912 and 284 days during 1911.

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF ACETONE COST SHEETS FOR 1912 AND 1911.

Production for the Year 1912 1655222 Pounds Daily Average 5069 Pounds Days Operated 366 Days Idle None
 Production for the Year 1911 1577607 Pounds Daily Average 4322 Pounds Days Operated 365 Days Idle None

Acct. No.	Year 1912				Year 1911				
	Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound	
GENERAL EXPENSE:-									
Taxes		416 25	416 25	0002		511 88	511 88	0003	
Analysis	1912 1911	786 91	525 41	1302 32	0007	719 54	353 43	1072 97	0007
Central Office Expense	8.9 82	2674 53	1512 17	4186 70	0023	2493 51	1360 51	3854 02	0024
Personal Injury Expense						2 50	2 50	0000	
Total		3461 44	2443 83	5905 27	0032	3213 05	2228 32	5441 37	0034
MAINTENANCE:-									
Buildings		189 48	60 03	249 51	0002	136 77	68 04	204 81	0001
Tanks & Stills		449 68	492 34	942 02	0005	192 95	240 30	433 25	0003
Machinery		135 39	63 63	199 02	0001	49 14	18 90	68 04	0001
Ovens and Kettles						229 04	530 12	759 16	0005
Retorts		5306 89	3071 89	8378 78	0045	1006 73	461 34	1468 07	0009
Retort Track		268 04	51 14	319 18	0002	126 84	51 46	178 30	0001
Retort Pans and Cars		779 67	351 59	1131 26	0006	350 69	490 63	841 32	0005
Tracks and Yards		341 01	82 68	423 69	0002	71 58	26 70	98 28	0001
Cleaning Up		321 24	89 95	411 19	0002	36 72		36 72	0000
Safety Devices			6 30	6 30	0000				
Total		7791 40	4269 55	12060 95	0065	2200 46	1887 49	4087 95	0026
OPERATING:-									
Superintendent		613 50		613 50	0003	506 70		506 70	0003
Firemen		9651 21	81 90	9733 11	0053	8372 85	86 49	8459 37	0054
Removing Refuse		1798 98	424 38	2223 36	0012	1653 42	415 09	2068 51	0013
Machinery			154 56	154 56	0001	5 35	137 86	143 21	0001
Electric Lamps & Wiring	1912 1911	19 03	64 40	83 43	0000	68 91	80 19	149 10	0001
Central Power Expense	9.5 32	1236 55	2828 31	4066 86	0022	386 63	701 73	1088 36	0007
Handling Fuel	1912 1911	427 91	346 84	774 75	0004	568 07	387 96	956 03	0006
Fuel	2943 2250 tons		8121 69	8121 69	0044		6208 58	6208 58	0039
Chemicals		83	870 03	870 86	0005		612 00	612 00	0004
Acetate			211136 01	211136 01	1138		117870 56	117870 56	0747
Acetone Oils Recovered			1406 93	1406 93	0008		1483 91	1483 91	0009
Stillmen		1620 65		1620 65	0009	1593 11	2 70	1595 81	0010
Handling Acetate		211 16	3 45	214 61	0001				
Total		15561 82	222624 64	238206 46	1284	13155 07	125019 25	136174 32	0876
Cost of Production									
DEPRECIATION:- E. & A. 87 - Motor Generator Set			5 87	5 87	0000				
Plant Account			8083 03	8083 03	0043		5842 54	5842 54	0038
New Construction			147 05	147 05	0001				
Appreciation of Inventory			17 00	17 00	0000		4 85	4 85	0000
Experimental Acetone Retort			308 26	308 26	0002				
Total			8527 21	8527 21	0046		5837 69	5837 69	0038
Total Cost		26834 66	237865 23	264699 89	1427	18568 58	134972 75	155541 33	0974
SHIPPING EXPENSE:-									
1912 1911									
1663392 1627285 Lbs.			6516 50	6516 50	0039	941 22	5584 01	6525 23	0040
Loadings			318 59	176 80	0003	309 15	117 11	426 26	0003
Switching			12 75	9 07	0000	10 11	8 81	18 92	0000
Total		351 34	6702 37	7033 71	0038	1260 48	5709 93	6970 41	0044
Total Cost on Cars									
		27166 00	244567 60	271733 60	1465	19829 06	140682 68	160511 74	1018
Plant Account not charged off									
New Construction not charged off									
30382 16									
36583 88									

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

Remarks:- Acetate Used 1027722 Lbs. @ 2.053 8409385 Lbs. @ 1.402
 Yield based on 80% acetate 18.5
 Yield based on 82% acetate 18.9
 Yield based on 78% acetate 18.0
 Acetone Oils recovered 319764 @ .0044 336539 Lbs. @ .0044
 Analysis of Acetate 1912 - 78.24% 1911 - 79.26%
 Cost of Fuel 1912 - 2.76 1911 - 2.759

1912 1911.
 105 days 273.6 "
 Pots & Kettles operated to full capacity
 Retorts operated to full capacity (Based on 9 Retorts) 296.6 days
 Meyer Retorts operated to full capacity 131.5 days
 Started operating retorts in place of Pots & Kettles May 1911 - Started operating Meyer Retorts May, 1912.
 Lost time during 1912 due to repairing and raising the retorts - which accounts for the high charges to maintenance - Low yield due to leaky retorts.

THE CLEVELAND-CLIFFS IRON CO.

Cost per 100 Pounds Acetic Acid in Bulk at Plant as based on actual cost of production for the year 1912 when plant was operated 334 days and produced 1,780,835 pounds of acid. Average yield of 100% per 100 pounds at 80% Acetate of Lime 50.2. Average pounds of Sulphuric Acid per 100 pounds of Acetate of Lime 60.9.

(Yields based on 82% Acetate.)

		Based on Costs Year 1912	
Based on actual cost Acetate of Lime in 1912::	2.109	:	:
Based on the market price of Acetate at Marquette (\$2.50 - \$0.35 = \$2.15)		:	2.15
Price of Sulphuric Acid per N.T.,.....	9.00	:	9.00

Cost per 100 lbs. of Acetic Acid

Commercial Grades	Theoret. Yield		Actual				
28%	210.	192.7	1.621	:	1.643	:	:
56%	105.	96.3	3.215	:	3.259	:	:
70%	84.	77.1	4.012	:	4.067	:	:
Redistilled Grades				:		:	
28%	200.	183.5	1.755	:	1.778	:	:
30%	186.6	171.3	1.879	:	1.903	:	:
36%	155.5	142.8	2.249	:	2.279	:	:
56%	100.	91.7	3.483	:	3.530	:	:
60%	93.	85.7	3.730	:	3.780	:	:
70%	80.	73.4	4.347	:	4.409	:	:
75%	74.7	68.5	4.656	:	4.718	:	:
80%	70.	64.2	4.965	:	5.031	:	:
85%	65.	60.4	5.273	:	5.343	:	:
95%	59.	64.1	5.090	:	5.969	:	:
99%	56.6	55.9	6.137	:	6.219	:	:
99 1/2%	56.3	51.6	6.168	:	6.250	:	:
100%	56.	51.4	6.199	:	6.282	:	:

Note: - Depreciation on Barrels, Carboys and returned freight not included in above figures.

The above figures are to be used in connection with table #2, showing cost of transportation to various points.

To the above costs in bulk must be added for shipment

In Barrels,..... - .1132 Per Cwt.

In Carboys,..... - .0737 Per Cwt.

To cover the cost of preparing filling, paint, glue, paraffine, rosin, bungs, repairs to barrels, broken carboys, maintenance of barrel house, piping and equipment.

Table #1 (4th Quarter).

6.199
1.132
6.312

ANNUAL COMPARATIVE STATEMENT OF ACETIC ACID COST SHEETS FOR THE YEARS 1912 AND 1911

Production for the Year 1912 1780635 Pounds 109% Daily Average 5332 Pounds Days Operated 334 Days Idle 32
 Production for the Year 1911 1581829 Pounds 100% Daily Average 6863 Pounds Days Operated 230 Days Idle 134

Acct. No.		Year 1912				Year 1911						
		Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound			
GENERAL EXPENSE:-												
	Taxes		416 25	416 25	024		511 88	511 88	033			
	Analysis	1912 1911	279 58	204 56	484 14	027	373 10	185 11	558 21	035		
	Central Office Expense	3.1 4.4%	953 63	520 74	1474 37	082	1293 38	764 11	2057 49	130		
	Personal Injury Expense							2 00	2 00	000		
	Total		1233 21	1141 55	2374 76	133	1666 48	1463 10	3129 58	198		
MAINTENANCE:-												
	Buildings		95 27	91 30	186 57	011	152 89	339 45	492 34	031		
	Tanks and Stills		1121 97	4766 92	5888 89	329	700 24	2568 31	3268 55	207		
	Machinery		199 89	35 38	235 27	014	331 39	824 81	1156 20	073		
	Sewer		2 96		2 96	000	1 80		1 80	000		
	Tracks and Yards		118 94	31 05	149 99	009	90 69	133 44	224 13	014		
	Cleaning Up		117 00	35 32	152 32	009	47 91		47 91	003		
	Total		1656 03	4959 97	6616 00	372	1324 92	3866 01	5190 93	328		
OPERATING:-												
	Superintendent		765 00	2 15	767 15	043	1800 00		1800 00	114		
	Stillmen		3343 53	207 84	3551 37	199	3006 05	102 38	3108 43	197		
	Removing Refuse		411 81	109 60	521 41	029	290 82	145 36	436 18	028		
	Machinery		13 34	245 74	259 08	014		104 35	104 35	007		
	Electric Lamps & Wiring	1912 1911	15 34	38 69	54 03	003	53 49	64 56	118 05	007		
	Central Power Expense	7.7 22%	1048 09	2276 75	3324 84	188	272 89	517 84	790 73	050		
	Handling Acetate		388 88	4 74	393 62	022	302 62		302 62	019		
	Acetate of Lime			75846 99	75846 994	259		46279 10	46279 10	2 926		
	Sulphuric Acid			9298 54	9298 54	522		11354 48	11354 48	718		
	Chemicals			152 60	152 60	009		119 04	119 04	007		
	Total		5985 99	88183 64	94169 63	5.288	5725 87	58687 11	64412 98	4 073		
	Cost of Production		8875 23	94285 16	103160 39	5.793	8817 27	64016 22	72733 49	4 599		
DEPRECIATION:-												
	Plant Account			4991 10	4991 10	280		4343 38	4343 38	274		
	New Construction			225 33	225 33	013						
	Appreciation of Inventory			10 60	10 60	000		4 85	4 85	000		
	E.&A 87 - Motor Generator Set			70 67	70 67	004						
	Total			5276 50	5276 50	297		4338 53	4338 53	274		
	Total Cost		8875 23	99561 66	108436 89	6.090	8817 27	68354 75	77072 02	4 873		
SHIPPING EXPENSE:-												
	Packages	1912 1911	2441305	1517896	7344 09	7344 09	309	881 31	5299 31	6180 62	407	
	Loading	" "	" "	" "	423 30	222 04	645 34	026	406 94	178 69	585 63	039
	Switching	" "	" "	" "	18 76	13 24	32 00	001	14 09	10 65	24 74	002
	Total		442 06	7579 37	8021 43	450	1302 34	5488 65	6790 99	429		
	Total cost on Cars		9317 29	107141 03	116458 32	6.540	10119 61	73843 40	83863 01	5 102		
	Plant Account not charged off				47362 69				35002 54			
	New Construction not charged off								11062 62			
									1606 16			
	Made by	_____										
	Figured by	_____										
	Copied by	_____										
	Corrected by	_____										
	Examined by	_____										

Remarks:- Acetate Used 3596246 Pounds. ✓ 280219 Pounds
 Yield based on 78% acetate 48.9 2990319 521
 Yield based on 80% acetate 50.2 532
 Yield based on 82% Acetate 51.4 548
 Sulphuric Acid used 1096-0966 tons @ 8.48 913-1885 tons
 Average price of acetate used 2.109 1.2482-651 ✓
 Average price of sulphuric acid used 8.48 12 424 ✓
 Average Analysis of Acetate used 79.14% 80.55%

The increased cost for 1912 is due to the repairs and replacements of the Crude Stills, the increased price of Acetate and the low yield. The low yield is due to leaky Crude Stills and the production of a large quantity of Refined Acid.

actual yield 1912 49.5
 " " 1911 82.9

6.09
 1.336
 6.426

PIONEER IRON COMPANY
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF SULPHURIC ACID COST SHEETS

FOR THE YEARS 1912 AND 1911

Production for the Year 1912	5117-0641 Net Tons	Daily Average 21-1536 Net Tons	Days Operated 236	Days Idle 130
Production for the Year 1911	2343-0519 " "	Daily Average 16-0773 " "	Days Operated 143	Days Idle 111

Acct. No.	Year 1912				Year 1911			
	Labor	Supplies	Total	Cost per Ton	Labor	Supplies	Total	Cost per Ton
GENERAL EXPENSE:-								
Insurance Taxes		1217 50	1217 50	237		1100 00	1100 00	470
Analysis	1912 4 1/4% 1163 02	1911 2 1/4% 906 95	428 55	765 90	149	128 86	359 22	153
Central Office Expenses			2069 97	402	770 42	470 47	1240 89	529
Watchman			136 32	027				
TOTAL	1636 69	2553 00	4189 69	815	1000 78	1699 33	2700 11	1 152
MAINTENANCE:-								
Building	179 04	56 15	235 19	046	423 65	350 96	774 61	330
Tanks & Towers	1573 16	1910 18	3483 34	678	124 25	41 03	165 28	071
Wedge Furnace	164 31	283 52	447 83	087	146 50	182 87	329 37	141
Stokers	12 86	42 56	55 42	011	51	5 61	6 12	003
Machinery	378 40	844 60	1223 00	238	96 50	50 88	147 38	062
Fans					25 21	35 39	60 60	026
Piping					82 42	328 66	411 08	175
Tracks & Yard	154 24	40 29	194 53	038	79 54	49 85	129 39	055
Cleaning Up	125 24	35 69	160 93	031	86 12		86 12	037
Safety Devices	30 09	19 62	49 71	010				
TOTAL	2617 34	3232 61	5849 95	1 139	1064 70	1045 25	2109 95	900
OPERATING:-								
Superintendence	1916 60		1916 60	373	1213 86		1213 86	518
Chambermen	1814 41	191 72	2006 13	391	1682 17	96 93	1779 10	759
Cre & Cinder Handlers	1161 09	57 07	1218 16	237	767 72	5 90	773 62	330
Burnermen	1880 62	13 25	1893 87	369	777 11	273 66	1050 77	448
Machinery	27 68	147 82	175 50	034	53 10	68 34	121 44	052
Electric Lamps & Wiring	1912 48 12	1911 96 11	144 23	028	52 18	93 78	145 96	062
Central Power Expense	2 1/4% 326 46	6% 709 14	1035 60	202	95 65	151 49	247 14	105
Removing Refuse	82 15	53 90	136 05	026				
Handling Fuel	27 44		27 44	005	17 34		17 34	007
Fuel		2084 08	2084 08	406		632 37	632 37	270
Pyrites		28847 90	28847 90	5 617		15665 37	15665 37	6 685
Nitrate of Soda		5324 10	5324 10	1 036		6471 35	6471 35	2 763
Cinder Recovered		6225 00	6225 00	1 212		2213 63	2213 63	945
Storing					116 83	115 50	232 33	099
TOTAL	7284 57	31300 09	38584 66	7 512	4775 96	21361 06	26137 08	11 153
Cost of Production	11538 60	37085 70	48624 30	9 466	6841 44	24105 64	30947 08	13 205
DEPRECIATION:-								
Plant Account		6630 24	6630 24	1 291		266 88	266 88	114
New Construction		11659 20	11659 20	2 268		7600 02	7600 02	3 244
Supply Inventory		5 20	5 20	000		19 42	19 42	008
E. & A. 87- Motor Generator Set		111 98	111 98	022				
TOTAL		18398 22	18398 22	3 581		7847 48	7847 48	3 350
Idle Expenses	1415 32	1045 22	2460 54	479	981 13	4869 60	5850 73	2 497
Total Cost	12953 92	56529 14	69483 06	13 526	7822 57	36822 72	44645 29	19 052
SHIPPING EXPENSES:-								
Tons Shipped	1912 4018-0397	1911 1325-0683						
Tank Cars			1008 00	1008 00	251	342 00	342 00	258
Package	122-1107	" "	669 02	669 02	5 460	22 17	75 68	074
Loading	4140-1504	" "	377 31	44 69	422 00	102	23 63	7 40
Switching	" "	" "	27 00	18 38	45 38	011	12 68	9 23
TOTAL			404 31	1740 09	2144 40	437	58 48	434 31
Total Cost on Cars	13358 23	58269 23	71627 46	13 943	7881 05	37257 03	45138 08	19 263

Plant Account not charged off		154071 97				7606 19
New Construction not charged off						164755 22
Pounds of Pyrites used per net ton of Acid				1619		1857
Pounds of Nitrate of Soda used per net ton of Acid				398		115
Pounds of Sulphur per net ton of Acid				711		819
Per cent of Sulphur in Pyrites used				44.21		44.42
Yield in pounds of Acid per pound of Pyrites				1.24		1.08
Yield per pound of Sulphur in pounds of Acid				2.81		2.44

Ontario Pyrites used	146-1896 tons @ 5.673	
St Lawrence Pyrites used	3565-0867 " " 7.856	
Cinder Recovered	2490-0000 " " 2.50	1942-1020 tons @ 8.065
Nitrate of Soda used	204409 Lbs. " 2.605 Cwt.	582-1271 " " 3.80
Fuel used:- Pea Coal	24-0500 tons " 5.083	270129 Lbs. " 2.396 Cwt.
Nut Coal	3-0000 " " 7.75	
Screenings	3-0350 " " 2.00	
Coke	225-0000 " " 5.828	
Coke Braize	222-0400 " " 2.791	
Yough.		
Slack		

Plant started in April 1911. Shut down during November and December 1911 and January and August 1912, due to market conditions.

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

ORIGINAL MAILED
FEB 22 1913
TO CLEVELAND

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF SULPHURIC ACID IDLE EXPENSE FOR 1912 AND 1911.

Production for the Year.....		Daily Average.....		Days Operated.....		Days Idle.....			
Production for the Year.....		Daily Average.....		Days Operated.....		Days Idle.....			
Acct. No.		Year 1912				Year 1911			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
GENERAL EXPENSE:--									
	Insurance								
	Taxes		308 00	308 00		162 25	162 25		
	Analysis	1912	1911	57 72	16 78	74 50	57 17	42 63	99 80
	Central Office Expense	.%	.1%	145 18	70 39	215 57	205 09	280 85	485 94
	Watchman			121 36		121 36			
	Total			324 26	395 17	719 43	262 26	485 73	747 99
MAINTENANCE:--									
	Buildings			35 91	29 78	65 69	6 97	9 74	16 71
	Tanks & Towers			453 82	180 93	634 75	39 28	600 43	639 71
	Wedge Furnace			93 78	176 00	269 78	6 91	29 88	36 79
	Stokers			10 00	2 82	12 82			
	Machinery			72 28	59 74	132 02	52 60	335 20	387 80
	Tracks and Yards			16 40	6 01	22 41	42 39	14 16	56 55
	Cleaning Up			20 35	6 26	26 61	53 81	1 28	55 09
	Safety Devices							3 15	3 15
	Fans							86 40	151 99
	Piping								
	Total			702 54	461 54	1164 08	267 55	1080 24	1347 79
OPERATING:--									
	Superintendent			383 32		383 32	383 32		383 32
	Chambermen			54	96	1 50	43 88		43 88
	Ore and Cinder Handlers				45	45	13 45	4 06	17 51
	Burnermen				165 02	165 02	2 00		2 00
	Machinery				8 70	8 70	97	14 52	15 49
	Electric Lamps and Wiring	1912	1911	4 66	1 38	6 04		39 73	39 73
	Central Power Expense		.1%				7 70	13 18	20 88
	Removing Refuse								
	Handling Fuel								
	Fuel				12 00	12 00			
	Pyrite Ores								
	Nitrate of Soda								
	Cinder Recovered								
	Total			388 52	188 51	577 03	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			1415 32	1045 22	2460 54	981 13	4869 60	5850 73

Made by 2/8/12
 Figured by 2/8/12
 Copied by 2/8/12
 Corrected by 2/8/12
 Examined by 2/8/12

REMARKS:--
 Fuel Used - 1912 - 2 tons Coke @ 6.00 - ✓

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF SODIUM ACETATE COST SHEETS FOR 1912 AND 1911.

Production for the Year 1912 432417 Daily Average 1945 Days Operated 248 Days Idle 118
 Production for the Year 1911 Daily Average Days Operated Days Idle

Acct. No.	Year 1912				Year 1911			
	Labor	Supplies	Total	Cost per Pound	Labor	Supplies	Total	Cost per Pound
GENERAL EXPENSE:-								
Insurance		138 70	138 70	0003				
Taxes								
Analysis	1912 1911	236 50	180 93	417 43	0009	9 50	8 56	18 06
Central Office Expense	2.7% 00%	815 05	445 84	1260 89	0026	29 86	28 05	57 91
Personal Injury Expense								
Total		1051 55	765 47	1817 02	0038	39 36	36 61	75 97
MAINTENANCE:-								
Buildings		200 62	110 07	310 69	0006	5 40	60	6 00
Tanks & Stills		328 34	397 69	726 03	0015	16 12	30	16 42
Kettles and Pans		315 63	59 06	374 69	0008			
Gas Producer		17 15	31 00	48 15	0001		56 45	56 45
Machinery		143 06	233 66	376 72	0008	25 98	63 20	89 18
Tracks and Yards		106 03	30 77	136 80	0003	3 84	1 28	5 12
Cleaning Up		94 09	28 11	122 20	0002	4 84		4 84
Safety Devices			2 61	2 61	0000			
Piping						1 95	10 79	12 74
Sewer						11 59		11 59
Total		1204 92	892 97	2097 89	0043	69 72	132 62	202 34
OPERATING:-								
Superintendent		574 50		574 50	0012			
Stillmen		629 87	38 55	668 42	0014	71 09	72	71 81
Firing		1727 67	6 66	1734 33	0036	273 90		273 90
Filtering		966 78	173 59	1140 37	0024			
Crystalizing		483 12		483 12	0010			
Removing Refuse		38 05	9 48	47 53	0001	17	1 10	1 27
Machinery		435 73	124 59	560 32	0012		32 90	32 90
Electric Lamps & Wiring	1912 1911	31 69	65 06	96 75	0002	4 37	10 18	14 55
Central Power Expense	1.2% .2%	270 09	512 48	782 57	0016	49 61	34 85	84 46
Fuel			1696 70	1696 70	0035		455 00	455 00
Soda Ash			3714 07	3714 07	0077			
Acetic Acid			2586 95	2586 95	0053		986 13	986 13
Conveying to Anhydride		380 08		380 08	0008			
Total		5537 58	8928 13	14465 71	0300	399 14	1520 88	1920 02
Cost of Production								
Total		7794 05	10586 57	18380 62	0381	508 22	1690 11	2198 33
DEPRECIATION:- E.&A. 87 - Motor Generator Set.								
Plant Account			41 21	41 21	0001			
New Construction not charged off			844 40	844 40	0017			
Supply Inventory			1630 55	1630 55	0034			
			1 05	1 05	0000			
Total			2515 11	2515 11	0052			
Total Cost		7794 05	13101 68	20895 73	0433	508 22	1690 11	2198 33
SHIPPING EXPENSE:-								
Pounds Shipped	1912 1911							
Packages	2001 1/2		20 27	20 27	0101			
Loading	"	36	27	63	0000			
Switching								
Total		36	20 54	20 90	0000			
Total Cost on Cars		7794 41	13122 22	20916 63	0433	508 22	1690 11	2198 33
Plant Account not charged off				22877 46				23823 56
New Construction not Charged off								
Cords received smoke from				6638				
Yield per cord				72.7				
Acetic Acid used, 28% crude			246635	Lbs. @ 1.049 cwt.			62021 Lbs @ 1.59 per cwt.	
Soda Ash used			388190	lbs. @ .0096 lb.				
Fuel used:- (Coke)			281 1/2	tons @ 5.90			78 tons @ 5.834 per ton	
(Pea coal)			2	" @ 5.00				
(Stove ")			4	" @ 7.50				

Remarks:- 1911:- Test run; No production of crystallized sodium acetate account of Filter not being installed
 1912:- Plant operated intermittently during the year producing Sodium Acetate as required by the Acetic Anhydride Plant.

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

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 FEB 22 1913
 TO CLEVELAND

PIONEER IRON COMPANY.
FURNACE DEPARTMENT.

ACETIC ANHYDRIDE COST SHEET.

For the Month of _____ YEAR 19__

Production 1 Month	Daily Average	Days Operated	Days Idle
Production 12 Months 131736	Daily Average 547	Days Operated 241	Days Idle 125

	Labor		Supplies		Total		Total -----Months		Cost per - LB. -----Mos.	
	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
GENERAL EXPENSE:-										
Taxes			554	80	554	80				0042
Analysis	182	69	142	55	325	24				0025
Central Office Expense 21%	628	92	347	91	976	83				0074
Personal Injury Expense			508	30	508	30				0038
Total -			811	61	1553	56				0179
MAINTENANCE:-										
Building			83	58	107	20				0014
Tanks & Stills	667	35	736	83	1404	18				0107
Machinery	485	80	258	62	744	42				0057
Tracks & Yard	81	29	21	24	102	53				0008
Cleaning Up	59	68	18	53	78	21				0006
Safety Devices	55	34	120	73	176	07				0013
Total -			1433	04	1263	15				0205
OPERATING:-										
Superintendent	460	50			460	50				0035
Stillmen	1966	07	53	44	2019	51				0153
Drying	1203	95			1203	95				0091
Removing Refuse	19	82	3	75	23	57				0002
Machinery	447	45	369	36	816	81				0062
Electric Lamps & Wiring	41	19	110	33	151	52				0011
Central Power Expense 2.8%	373	91	811	27	1185	18				0090
Crystallized Sodium Acetate			13138	60	13138	60				0998
Sulphuryl Chloride			9515	55	9515	55				0722
Liquid Chlorine	1	27	298	37	299	64				0023
Total -			4514	16	24309	67				2187
Cost of Production	6758	81	27117	38	33876	19				2571
DEPRECIATION:-										
Plant Account			229	02	229	02				0017
New Construction			5677	31	5677	31				0431
E.&A. 87 - Motor Generator Set			117	85	117	85				0009
Supply Inventory			2	10	2	10				0000
Total -			6022	08	6022	08				0457
Total Cost	6758	81	33139	46	39898	27				3028
SHIPPING COST:-										
Lbs. Shipped	1912									
Packages	16656		59	49	59	49				0036
Loading	"	3	40	2	33	5	73			0003
Switching	"									
Total -			3	40	61	82	65	22		0005
Total Cost on Cars	6762	21	33201	28	39963	49				3033
Plant Account Not Charged Off					2269	68				
New Construction Not Charged Off					57121	64				
Crystallized Sodium Acetate used			479083	Lbs. @ 2.741						
Sulphuryl Chloride used			128654	lbs. @ .07398						
Liquid Chlorine used			2497	lbs. @ 12 cts.						
Yield per lb. Sodium Acetate			.280							
Made by	_____									
Figured by	_____									
Copied by	_____									
Corrected by	_____									
Examined by	_____									

REMARKS:-

Plant operated experimentally under supervision of a representative of F.H.Meyer & Co.
The results so far not meeting the guarantees of that firm,

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF SPECIAL CHEMICAL PRODUCTS FOR THE YEARS 1912 AND 1911

Production for the Year 1912		Daily Average		Days Operated		Days Idle			
Production for the Year 1911		Daily Average		Days Operated		Days Idle			
Acct. No.		Year 1912				Year 1911			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
GENERAL EXPENSE:-									
	Taxes		138 70	138 70		170 63	170 63		
	Analysis	1912 1911	195 19	143 10	338 29	316 20	154 56	470 76	
	Central Office Expense	2.2% 3.8%	654 76	374 55	1029 31	1129 76	631 73	1761 49	
	Personal Injury Expense		8 00	8 00					
	Advertising		192 14	192 14					
	Total		849 95	856 49	1706 44	1445 96	956 92	2402 88	
MAINTENANCE:-									
	Buildings		26 12	15 19	41 31	9 93	47 88	57 81	
	Tanks & Stills		297 94	389 42	687 36	399 34	667 75	1067 09	
	Electrolytic Cell			56 18	56 18		7 95	7 95	
	Machinery		30 12	28 50	58 62	44 56	47 93	92 49	
	Tracks and Yards		83 49	20 35	103 84	3 84	1 28	5 12	
	Cleaning Up		82 15	23 51	105 66	4 87		4 87	
	Safety Devices								
	Total		519 82	533 15	1052 97	462 54	772 79	1235 33	
OPERATING:-									
	Chemists		2615 00		2615 00	3402 74		3402 74	
	Stillmen		1778 61	8 26	1786 87	2083 58	67 00	2150 58	
	Machinery			65 59	65 59	12 05	25 34	37 39	
	Electric Lamps & Wiring	1912 1911	8 89	11 31	20 20	26 92	15 01	41 93	
	Central Power Expense	2.5% 1.4%	331 08	721 58	1052 66	177 04	324 79	501 83	
	Handling Fuel		13 09	5 30	18 39	37 79	8 52	46 31	
	Fuel			119 65	119 65		299 89	299 89	
	Chemicals			1248 64	1248 64		4413 36	4413 36	
	Alcohol			40705 60	40705 60		26956 70	26956 70	
	Acetate			3 32	3 32		164 77	164 77	
	Formaldehyde			2007 40	2007 40		2038 88	2038 88	
	Acetone			3781 01	3781 01		1571 40	1571 40	
	Acetone Oils			1406 93	1406 93		1483 91	1483 91	
	Freight on Returned Goods						16 75	16 75	
	Acetic Acid			30 25	30 25		212 11	212 11	
	Sulphuric Acid			5 96	5 96				
	Firemen					169 92	1 18	171 10	
	Total		4746 67	50120 80	54867 47	5910 04	37529 61	43509 65	
	Cost of Production		6116 44	51510 44	57626 88	7818 54	39329 32	47147 86	
DEPRECIATION:-									
	Plant Account			1605 88	1605 88		1637 67	1637 67	
	New Construction						1 62	1 62	
	Appreciation of Inventory			9 60	9 60				
	E.&A. 87 - Motor Generator Set.			11 74	11 74				
	Total			1608 02	1608 02		1636 05	1636 05	
	Total Cost		6116 44	53118 46	59234 90	7818 54	40965 37	48783 91	
SHIPPING EXPENSE:-									
	Packages			4772 75	4772 75	522 19	3324 00	3846 19	
	Loading		217 01	115 77	332 78	172 17	62 06	234 23	
	Switching		8 69	6 50	15 19	4 01	3 32	7 33	
	Total		225 70	4895 02	5120 72	698 37	3389 38	4087 75	
	Total cost on cars		6342 14	58013 48	64355 62	8516 91	44354 75	52871 66	
	Plant Account not charged off				11486 64			13192 52	
	New construction not charged off								
	Alcohol Used		✓	103292 1/2 gals.	@ .394	67961 Gals.	@ .397		
	Acetate Used		✓	160 lbs.	@ 2.075	12365 Lbs.	@ 1.332		
	Formaldehyde Used		✓	27000 lbs.	@ .07435	27464 "	@ .0742		
	Acetone used		✓	28111 lbs.	@ .1345	13502 "	@ .1164		
	Acetone Oils used		✓	319764 lbs.	@ .0044	336539 "	@ .0044		
	Acetic Acid used		✓	700 lbs.	@ 3.51 75%	6494 "	@ .032	75%	
	Sulphuric Acid used		✓	1437 lbs.	@ .00415	750 "	@ 8.593	net ton	
	Acetic Acid used		✓	140 lbs.	@ 4.054 80%				

Remarks:-

Fuel used:- 42 tons @ 2.849

106 tons @ 2.829 ✓

Made by J.H.S.
Figured by J.A. C. H.
Copied by J.A. C. H.
Corrected by J.A. C. H.
Examined by J.A. C. H.

PRODUCT	Unit	1912		1911	
		Made	Shipped	Made	Shipped
Methyl Acetone A	Gals	7757	7757	6404	6404 ✓
Methyl Acetone AA	"	19203	19203	13608 $\frac{1}{2}$	13608 $\frac{1}{2}$ ✓
Refined Light Acetone Oils	Lbs.	86957	86957	245197	245197 ✓
Superior Spirits	"	2320	2320	3882	3882 ✓
Creosote Oils	Gals	4926	4926	8339	8339 ✓
Special Solvent No. 1	"	1500	1500	3700	3700 ✓
Special Solvent No. 11	"	4326	4326	8652	8652 ✓
Special Solvent No. 12	"				
Diamond Spirits	"	780	780	876	876 ✓
Perfumed Spirits	"	1156	1156	2556	2556 ✓
Soap Spirits	"	28 $\frac{1}{2}$	28 $\frac{1}{2}$	5	5 ✓
Denaturing Alcohol	"			2413 $\frac{1}{2}$	2413 $\frac{1}{2}$ ✓
Formin	Lbs.	6750	6750	6928	8358 ✓
Methyl Acetate	Gals.			1139	1139 ✓
Refined Tar	"			819 $\frac{1}{2}$	819 $\frac{1}{2}$ ✓
Anti Fly	"			85	85 ✓
Chloroform	Lbs.	1840	1840	14207	14207 ✓
Special Spirits No. 1	Gals.	1500	1500	3557 $\frac{1}{2}$	3557 $\frac{1}{2}$ ✓
Special Solvent No. 30	"			100	100 ✓
Amyl Acetate	"	100	100	1410	1410 ✓
Formin Returned	Lbs.		300	1200	1200 ✓
Creosote Oil Returned	Gals.		208	47	47 ✓
Heavy Acetone Oils	Lbs.	53416	53416	65622	65622 ✓
Special Solvent No. 31	Gals.			105	105 ✓
Special Solvent No. 32	"			5	5 ✓
Special Solvent No. 34	"	1050	1050	2695	2695 ✓
Amyl Acetate Substitute	"			125	125 ✓
No. 8 Alcohol	"	200	200	1288	1288 ✓
Chloroform Returned	Lbs.			1100	1100 ✓
Amyl Acetate Sub. No. 2	Gals.	550	550	475	475 ✓
Superior Spirits Returned	Lbs.			700	700 ✓
Amyl Acetate Sub. A.	Gals.			5	5 ✓
Special Solvent No. 37	"			5	5 ✓
Special Denaturing Alcohol	"	6975 $\frac{1}{2}$	6975 $\frac{1}{2}$	2000	2000 ✓
Diamond Spirits Returned	"			15	15 ✓
Methyl Acetone AAA	"	85	85	150	150 ✓
Alcohol No. 5	"	60129 $\frac{1}{2}$	60129 $\frac{1}{2}$	100	100 ✓
Alcohol " 10	"	500	500	100	100 ✓
Solvent No. 40 Returned	"		700		
Alcohol No. 5 Returned	"		1445		
Allyl Oil	Lbs.	9173	9173		
Solvent No. 27	Gals.	50	50		
Solvent No. 40	"	19883	19883		
Solvent No. 41	"	7205	7205		
Solvent No. 43	"	100	100		
Solvent No. 45	"	100	100		
Pyroligneous Acid	"	193 $\frac{1}{2}$	193 $\frac{1}{2}$		
Methyl Acetone AA Returned	"		685		
Ethyl Methyl Ketone	"	100	100		
British Excise Alcohol	"	150	150		
Amyl Acetate Thinner	"	200	200		
Solvent No. 44	"	50	50		
Crude Wood Tar	Lbs.	910	910		
Solvent No. 53	Gals.	50	50		

NOTED

E. R. M.

E. R. M.

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Acc. Ans.

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE LABOR STATEMENT FOR THE YEARS, 1912 AND 1911

Figured by _____
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Corrected by _____
Examined by _____

Tons per man per day	1912		1911		No. of Men	No. Days	Rate per day			
	1,297	1,240	1911	1912			Earnings 1912	Earnings 1911		
FURNACE:-										
Founders	2	2	732	0	3700	08	5	06	4	95
Keepers	2	2	719	3	1742	39	2	45	2	45
Helpers	9	5	2841	0	6018	00	2	11	2	11
Coal Potters	12	11	4296	0	9085	61	2	11	2	10
Bottom Pliers	2	2	2406	7	4619	10	2	00	2	00
Scale Car Motorman	2	2	717	0	1576	90	2	20	2	20
Coal Car Motorman	2	2	710	5	1503	90	2	12	2	10
Hoistman	2	2	715	0	1501	50	2	20	2	11
Iron Handlers	6	6	2609	1	6206	69	2	37	2	34
Cinder Snappers	6	5	1723	2	3358	15	1	95	1	85
Blowing Engine Engineers	2	2	734	8	2167	65	2	95	2	95
Dry Blast Engineers	3	3	1087	0	2554	44	2	35	2	35
Iron Grader	1	1	366	0	700	20	1	95	1	95
Laboratory Boy	1	1	366	0	900	00	2	45	2	46
Total	52	53	20027	6	45634	61	2	28	2	27
Prop. Central Power Exp.	2	3	825	5	1803	71	2	27	2	18
Prop. Miscellaneous Labor	18	11	4032	9	9091	19	2	27	2	28
Prop. Central Office Exp.	5	4	1475	5	6551	63	4	44	4	25
Total as per Cost Sheet	77	71	26361	5	63281	34	2	41	2	42

ALCOHOL PLANT:-										
Superintendent	1	1	92	0	453	00	4	92	5	04
Stillmen	10	7	2673	3	5784	78	2	16	2	13
Coopers	1	1	478	1	976	79	2	05	2	05
Condensermen	11	9	3243	4	7214	57	2	22	2	19
Total	4	4	1636	5	3582	23	2	18	2	18
Prop. Central Power Exp.	4	5	1870	5	4225	61	2	27	2	28
Prop. Miscellaneous Labor	6	5	1870	5	545	79	10	11	12	33
Prop. Analysis	1	1	423	6	1887	25	4	44	4	26
Prop. Central Office Exp.	1	1	423	6	1887	25	4	44	4	26
Total	24	20	7225	9	17455	45	2	46	2	43

ACETATE PLANT:-										
Superintendent	2	2	125	8	618	00	4	92	5	05
Stillmen	1	1	3190	4	6836	57	2	14	2	27
Condensermen	1	1	485	5	992	09	2	05	2	05
Dryermen	1	4	1788	3	3875	21	2	16	2	15
Evaporator Men	1	1								
Contractors	8									
Laborers	1	1								
Total	14	15	5590	0	12321	87	2	20	2	30
Prop. Central Power Exp.	9	6	2260	2	4944	61	2	18	2	18
Prop. Miscellaneous Labor	3	6	2491	6	5650	79	2	27	2	28
Prop. Analysis	1	1	77	6	766	84	10	11	12	31
Prop. Central Office Exp.	1	1	598	8	2656	21	4	44	4	26
Total as per Cost Sheet	28	29	11018	2	26340	32	2	39	2	47

FORMALDEHYDE PLANT:-										
Superintendent	3	3	23	3	115	50	4	92	5	09
Stillmen	3	3	1052	7	2349	62	2	23	2	23
Total	3	3	1076	0	2465	12	2	29	2	28
Prop. Central Power Exp.	1	1	494	3	1085	14	2	18	2	12
Prop. Miscellaneous Labor	1	1	258	7	596	16	2	27	2	26
Prop. Analysis	1	1	13	8	140	42	10	11	12	31
Prop. Central Office Exp.	1	1	110	0	488	64	4	44	4	26
Total	4	5	1952	8	4775	48	2	44	2	51

ACETONE PLANT:-										
Superintendent	2	2	125	0	613	50	4	92	5	07
Stillmen	2	2	756	4	1648	92	2	18	2	16
Firemen	10	12	4515	2	9604	82	2	12	2	11
Coopers	1	1								
Coal & Refuse Cartmen	2	2	778	0	1490	40	1	90	1	88
Total	15	17	6174	6	13357	64	2	16	2	15
Prop. Central Power Exp.	10	11	568	7	1238	96	2	18	2	18
Prop. Miscellaneous Labor	4	12	4015	9	9121	57	2	27	2	27
Prop. Analysis	1	1	80	5	773	30	10	11	12	34
Prop. Central Office Exp.	1	1	604	0	2674	53	4	44	4	22
Total as per Cost Sheet	21	32	11443	7	27166	00	2	37	2	39

ACETIC ACID PLANT:-										
Superintendent	1	1	155	5	765	00	4	92	5	03
Stillmen	3	4	1501	2	3338	66	2	23	2	23
Coopers	1	1								
Total	5	6	1656	7	4103	66	2	47	2	69
Prop. Central Power Exp.	3	3	488	8	1048	28	2	18	2	18
Prop. Miscellaneous Labor	3	3	1293	6	2937	99	2	27	2	28
Prop. Analysis	1	1	26	4	273	73	10	11	12	31
Prop. Central Office Exp.	1	1	214	7	953	63	4	44	4	24
Total as per Cost Sheet	9	10	3670	2	9317	29	2	53	2	76

SPECIAL CHEMICAL PRODUCTS:-										
Chemists	1	1	366	0	1800	00	4	91	5	47
Coopers	1	1								
Stillmen	3	2	832	6	1781	55	2	14	2	11
Laboratory Boy	1	1	366	0	815	00	2	23	2	46
Total	6	5	1504	6	4396	55	2	28	2	96
Prop. Central Power Exp.	1	1	150	5	330	75	2	18	2	26
Prop. Miscellaneous Labor	2	2	336	0	772	35	2	27	2	35
Prop. Analysis	1	1	18	6	187	73	10	11	12	36
Prop. Central Office Exp.	1	1	147	6	654	76	4	44	4	23
Total	6	6	2217	3	6342	14	2	86	3	05

KILNS:-										
Colliers	5	5	1830	0	4056	00	2	22	2	21
Whitewashers	2	2	653	8	1275	70	1	95	1	95
Paokers	18	14	5272	0	14773	20	2	80	2	75
Paoker Foreman	1	1	351	8	912	25	2	59	2	86
Cleaner & Scrubbers	3	3	968	5	1858	05	1	90	1	90
Braze Cartman	2	2	636	0	1240	61	1	95	1	95
Total	31	27	9712	1	24115	81	2	48	2	46
Prop. Miscellaneous Labor	2	2	611	3	1407	21	2	27	2	27
Total Kilns	33	29	10323	4	25523	02	2	47	2	45

* These items redistributed.

WOOD RETORTS:-										
Firemen	2	3	99	0	217	80	2	20	2	12
Loading & Drawing	1	1	41	1	74	05	1	80	1	78
Total	3	4	140	1	291	85	2	08	2	04
Prop. Miscellaneous Labor	2	2	158	6	357	55	2	27	2	27
Total	5	6	298	7	649	40	2	17	2	27

SULPHURIC ACID PLANT:-										
Superintendent	1	1	368	0	2299	92	6	24	6	26
Chambermen	1	1	871	8	1773	67	1	98	2	44
Burnermen	1	3	926	9	1821	38	1	96	2	28
Grassmen	1	2	566	1	1071	91	1	82	1	81
Nitramen	1	1								
Total	5	8	2772	8	6966	88	2	51	2	75
Prop. Central Power Exp.	1	1	148	5	326	79	2	18	2	22
Prop. Miscellaneous Labor	2	2	1919	6	4581	23	2	27	2	31
Prop. Analysis	1	1	36	8	375	33	10	11	12	12
Prop. Central Office Exp.	1	1	295	2	1308	20	4	44	4	42
Total as per Cost Sheet	6	14	5172	9	13358	43	2	58	2	80

SODIUM ACETATE PLANT:-										
Superintendent	1	1	116	5	574	50	4	93		
Stillmen	1	1	297	9	631	67	2	12	2	04
Crystallizing	1	1	145	5	314	50	2	16		
Firemen	1	3	922	8	1924	30	2	08	2	20
Filtermen	1	1	453	9	961	81	2	11		
Total	1	6								

PIONEER IRON CO.
Furnace Department

ANNUAL COMPARATIVE STATEMENT OF CENTRAL POWER EXPENSE FOR THE YEAR 1912 AND 1911

112145

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

Acct. No.		Year 1912				Year 1911			
		Labor	Supplies	Total	Cost per	Labor	Supplies	Total	Cost per
MAINTENANCE									
	Buildings	371 77	321 85	693 62		232 96	23 04	256 00	
	Boilers	1247 75	930 23	2177 98		1181 71	474 03	1655 74	
	Pumps	126 09	175 66	301 75		94 40	220 44	314 84	
	Generators	170 62	255 95	426 57		116 56	46 96	163 52	
	Economizers	58 66	105 60	164 26		57 56	32 13	89 69	
	Stokers	229 31	914 10	1143 41		364 25	1532 50	1896 75	
	Fan Engine	134 50	85 83	220 33		121 93	90 61	212 54	
	Coal Crusher Apparatus	500 70	153 03	653 73		200 83	177 22	378 05	
	Steam Meter	11 89	212 66	224 55			220 50	220 50	
	Safety Devices								

OPERATING:-		Total	2651 29	3154 96	5806 25	2370 20	2817 43	5187 63
	Firing		3041 24	99 66	3140 90	3045 67	24 72	3070 39
	Oilers and Wipers		2821 80		2821 80	2834 52	2 67	2837 19
	Fan Engineers		1830 39		1830 39	1833 31	11 83	1845 14
	Removing Ashes		1967 34	107 04	2074 38	1235 35	174 40	1409 75
	Boilers		1239 93	205 01	1444 94	1045 45	357 98	1403 43
	Pumps			464 41	464 41		117 68	117 68
	Generators			264 07	264 07		245 53	245 53
	Electric Lamps & Wiring		93 07	209 60	302 67	74 52	229 94	304 46
	Handling Fuel	1912	1707 45	254 81	1962 26	2114 09	230 27	2344 36
	Steam Coal- Tons 7160 @ 2.79 7009 @ 2.785	1911		19977 68	19977 68		19517 61	19517 61
	Carp River Water Power 1030000 KWS. @ .005			5150 40	5150 40			
	Depreciation - Motor Generator Set							
	Total		12701 22	26732 68	39433 90	12182 91	20912 63	33095 54
	Grand Total		15352 51	29887 64	45240 15	14553 11	23730 06	38283 17

DISTRIBUTION OF EXPENSE:-	Per Cent								
	1912	1911							
Alcohol Operating	1883.1	26.3	30.0	3582 22	7734 86	11317 08	3823 58	7050 83	10874 41
Acetate Operating	7640.6	36.6	57.0	4944 29	10782 21	15726 50	7234 59	13411 02	20645 61
Formaldehyde Operating	868.6	7.9	4.0	1085 42	2329 50	3414 92	488 09	943 14	1431 23
Acetone Operating	820.4	9.5	3.0	1238 57	2828 31	4066 88	386 63	701 73	1088 36
Acetic Acid Operating	651.8	7.7	2.2	1048 09	2276 75	3324 84	272 89	517 84	790 73
Special Chemical Products	Op 88.0	2.5	1.4	331 08	721 58	1052 66	177 04	324 79	501 83
Sulphuric Acid Operating	111.8	2.4	.6	326 46	709 14	1035 60	95 65	151 49	247 14
Sodium Acetate Operating	198.9	1.8	.2	270 09	512 48	782 57	49 61	34 85	84 46
Acetic Anhydride Operating	760.6	2.6		373 91	811 27	1185 18			
Operating Rented Buildings			.1				11 55	22 91	34 46
Central Office Expense	50.1	.7	.3	96 85	210 13	306 98	31 33	61 55	92 88
Shop Expense	89.8	.8	.7	113 25	223 43	336 68	98 02	163 88	261 90
Switching Expense	43.0	.6	.1	81 40	176 85	258 25	11 59	16 65	28 24
Laboratory Expense	108.7	.4	.3	57 58	124 80	182 38	44 15	78 51	122 66
Sulphuric Acid Idle Expense	160.0		.1				7 70	13 18	20 88
Total	100.0	100		13549 21	29441 31	42990 52	12732 42	23492 37	36224 79
Furnace Operating				1803 30	446 33	2249 63	1820 69	237 69	2058 38
Total as above				15352 51	29887 64	45240 15	14553 11	23730 06	38283 17

Remarks:-

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., 1912.

BOILERS:-

Number of boilers in battery, 12
Total Horse Power, 3960
No. of Boilers operated, 12
Type of Boilers, Sterling Water Tube

GENERATORS:- (Steam)

Number of Generators, 2
No. of Generators operated, 2
Type of Generator, Westinghouse, 150 KW, 220 V., DC
Name of maker, The Westinghouse Co.,

GENERATOR:- (Electric)

Number 1
Number Operated 1
Type Synchronous Motor Generator, 500 K.W.
220 Volt D.C.
Name of maker, Allis Chalmers Co.

Electric Generator started operating in March with current from the Carp River Power Plant. Since then the Steam Generators have been operated only at intervals when the current would be off due to line trouble etc.

The reduction in the theoretical fuel consumption of the Alcohol and Acetate Plants due to the installation of the Meyer apparatus has resulted in a larger percentage of the Central Power Expenses charged to the other Chemical Plants. With the exception of the Acetone Plant the factors for distribution as approved by the Operating Department were not increased as would appear from the increased percentages.

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Figured by
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Corrected by
Examined by

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Examined by _____

PIONEER IRON COMPANY.
Furnace Dept.

STATEMENT OF SHOP LABOR, 1912.

MACHINE SHOP

Month	Labor	Supplies	Total Debit	Total Hours	Cost Per Hour
Jan.	1386.91	86.85	1473.76	5083	.2899
Feb.	1369.02	45.46	1414.48	5032	.2810
Mar.	1378.44	62.47	1440.91	5068	.2843
April	1302.70	95.45	1398.15	4762	.2936
May	1251.11	87.08	1338.19	4504	.2972
June	1145.49	58.75	1204.24	3919	.3073
July	1231.75	80.92	1312.67	4426	.2965
Aug.	1188.88	147.47	1336.35	4382	.3048
Sept.	1521.64	106.33	1627.97	5708	.2852
Oct.	1590.23	129.14	1719.37	6515	.2639
Nov.	1476.74	121.95	1598.69	6061	.2637
Dec.	1412.72	70.95	1483.67	5736	.2586
Total	16255.63	1092.82	17348.45	61196	.2836

BLACKSMITH SHOP

Jan.	126.41	25.10	151.51	520	.2914
Feb.	112.25	14.10	126.35	468	.2700
Mar.	130.25	11.35	141.60	533	.2657
April	129.72	13.15	142.87	528	.2706
May	134.49	20.15	154.64	552	.2802
June	113.13	14.55	127.68	444	.2876
July	122.33	17.25	139.58	493	.2834
Aug.	134.13	13.85	147.98	549	.2700
Sept.	121.41	16.30	137.71	497	.2771
Oct.	127.64	17.45	145.09	527	.2753
Nov.	122.80	22.95	145.75	537	.2714
Dec.	113.97	24.05	138.02	498	.2772
Total	1488.53	210.25	1698.78	6146	.2764

CARPENTER SHOP

Jan.	523.82	.68	524.50	1785	.2939
Feb.	530.40	.68	531.08	1810	.2934
Mar.	531.52	.83	532.35	1809	.2942
April	543.64	.68	544.32	1895	.2872
May	489.30	.68	489.98	1775	.2760
June	250.79	1.68	252.47	963	.2622
July	306.38	4.08	310.46	1148	.2704
Aug.	292.37	2.88	295.25	1063	.2778
Sept.	300.00	3.28	303.28	1105	.2744
Oct.	341.37	13.53	354.90	1258	.2821
Nov.	317.42	2.93	320.35	1175	.2726
Dec.	325.37	22.81	348.18	1203	.2894
Total	4752.38 4749.64	54.74	4807.12 4804.38	16989	.2829

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PIONEER IRON COMPANY
 Furnace Dept.

ANNUAL STATEMENT OF LOCOMOTIVE CRANE EXPENSE. YEAR 1912

HOURS OPERATED 1630

COST PER HOUR \$1.689

Acct. No.		Amount
201	Maintenance, Labor	68.52
2020	Maintenance, Material	148.10
203	Operating Labor	723.51
204	Fuel, 59 tons Coal @ \$2.849	168.10
205	Lubricants	30.40
206	Tools and Miscellaneous Supplies	21.55
207	Depreciation (20% of Cost)	1593.00
Total		2753.18

DISTRIBUTION

<u>COST SHEET OR ACCOUNT</u>			<u>HOURS</u>	<u>AMOUNT</u>
Pig Iron			857	1184.54
Pig Iron Trucks, Coal & Ore Buggies	6	8.66		
Handling Cinder	10	16.86		
Handling Iron	100	173.88		
Loading Vessels	741	985.14		
Alcohol			24	79.23
Sewer	24	79.23		
Acetate			20	51.69
Tanks & Stills	20	51.69		
Acetic Acid			17	108.44
Tanks & Stills	17	108.44		
Acetone			195	357.04
Pans & Cars	44	79.79		
Handling Fuel	151	277.25		
Acetic Anhydride			5	8.43
Machinery	5	8.43		
Central Power Expense			10	17.60
Handling Fuel	10	17.60		
Miscellaneous Accounts			502	946.21
Stock of Coal	145	252.59		
Iron Pyrites	27	79.02		
Supplies	16	19.30		
New Construction	10	15.37		
Accounts Receivable	93	195.67		
Cleaning Up	211	384.26		

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Remarks:-

The variation in the rates at which the expense is charged to the different accounts is due to the idle time which varied from month to month, sometimes making the rate per hour worked as high as \$7.00.

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PIONEER IRON COMPANY
 Furnace Dept.,

ANNUAL STATEMENT OF YARD SWITCHING EXPENSE.

YEAR 1912.

CARS HANDLED 9526.

RATE PER CAR .393

Acct. No.		Amount
208	Maintenance, Labor	126.20
209	Maintenance, Supplies	174.62
210	Operating, Labor	2011.88
211	Fuel, 367-1440 tons Coal @ \$2.788	1025.22
212	Lubricants	62.35
213	Tools & Miscellaneous Supplies	70.50
214	Electric Lamps & Wiring	10.41
215	Insurance	8.45 ✓
	Central Power	258.25
	Total	3747.88

DISTRIBUTION

COST SHEET OR ACCOUNT	No. Cars	Amount
Pig Iron Cost Sheet	858	319.84
Sand & Clay	126	47.11
Switching	732	272.73 ✓
Alcohol Cost Sheet	9	3.44
Switching	9	3.44 ✓
Formaldehyde Cost Sheet	47	19.73
Switching	47	19.73 ✓
Acetone Cost Sheet	58	22.78
Pans & Cars	3	.96
Switching	55	21.82 ✓
Acetic Acid Cost Sheet	80	32.00
Switching	80	32.00 ✓
Sulphuric Acid Cost Sheet	119	45.38
Switching	119	45.38 ✓
Special Chemical Products	38	15.19
Switching	38	15.19 ✓
Miscellaneous Accounts	8317	3239.47
Lake Ore	1276	510.71
Negaunee Ore	233	92.97
North Lake Silica Ore	6	2.13
Clinton Silica Ore	240	92.09
North Lake Ore	173	63.02
Maas Ore	153	57.10
Clinton Ore	10	4.95
Morris Ore	2	.99
Limestone	65	23.92
Phosphate Rock	5	1.55
Purchased Acetate	148	56.73
Purchased Alcohol	6	2.20
Iron Pyrites	38	38.90
Stock of Coal	388	130.81
Charcoal	49	16.45
Wood Received	5237	2093.49
Supplies	38	14.38
Chemical Supplies	97	39.49
Equipment - Carboys	20	4.44
Package Expense	99	46.15

Pioneer Iron Company

Furnace Department.

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ANNUAL COMPARATIVE STATEMENT OF EXPENDITURES
 MADE FOR SAFETY DEVICES TO MACHINERY AND
 EQUIPMENT AND IMPROVEMENTS MADE FOR SAFETY
 OF EMPLOYEES.

Plant	Detail of Work Done	Statement or Cost Sheet	YEARS	
			1912	1911
Furnace	Railings & Toeboards on Ore Trestles.	Pig Iron	103.60	
Alcohol	Railings on Smoke Mains	Alcohol	331.72	
Primary	Guards for Belts on Pumps	Alcohol		116.85
Acetate	Motor & Belt Guards on Dryer	Acetate	6.84	58.45
Formaldehyde	Shafting & Belt Guards	Formaldehyde	21.09	
Acetone	Guards on Winch Gears	Acetone	6.30	
Refining House	Platforms & Railings on Acetone Tanks	Acetone		19.70
Acetic Anhydride	Motor & Belt Guards	Anhydride	176.07	
Kilns	Railings & Toeboards on Kiln Trestles	Charcoal	322.74	
Engine Room	Railings & Fly Wheel Guards	Central Power	224.55	
Sulphuric Acid	Platforms around Wedge Furnace	Sulphuric Acid	49.71	
" "	Guards for Motor & Compressor	" "		64.40
" "	Replacing Ladders with stairways	" "		35.48
Sodium Acetate	Belt & Gear Guards	Sodium Acetate	2.61	
Acetic Acid	Guards for Belts on Motors	Acetic Acid		201.40
TOTAL -			\$1245.23	496.28 ✓

PIONEER IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF FIRE INSURANCE AS OF DECEMBER 31st., 1912.

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
2035764	W British & Merc. Co.	P.White Co.	Office & Lab. Bldgs. Cnts. & Dwellings	3 Yrs.	12/31/14	6400.	108.53	3.05	35.16	321	70.32	Office & Lab. Bldg " " " Fur. & Fix Dwellings, Fur. Hou's	5000.	3.75	None	
227	Royal Ins. Co.	" " "	" " " " " " " "	"	" " "	6400.	108.53	3.05	35.16	38.21	70.32		1400.	3.75	"	
1730	Providence-Washington	Marq.Natl.Bk.	" " " " " " " "	"	" " "	3000.	50.87	1.55	16.44	17.99	32.65		19200.	.95	"	
1657	Queen Ins. Co.	" " "	" " " " " " " "	"	" " "	4000.	67.84	1.96	21.96	23.92	43.92					
6986185	London & Lancashire	" " "	" " " " " " " "	"	" " "	3000.	50.87	1.55	16.44	17.99	32.65					
757271	American Central	" " "	" " " " " " " "	"	" " "	2800.	47.46	1.40	15.36	16.76	30.72					
						25600.	434.12	12.56	140.52	153.08	281.04					
92301	Phoenix Ins. Co.	P.White Co.	Sup., Chem.Sup., Barn W. Hos. & Carpenter Shop	3 Yrs.	12/ 1/12	3525.	117.81	81.84	35.97	117.81	0.00	Supplies Chem. Supplies Barn Carpenter Shop	5000.	3.12	None	
6468152	London & Lancashire	Marq.Natl.Bk.	" " " " " " " "	"	" " "	3525.	117.81	81.84	35.97	117.81	0.00		250.	3.87	"	
92858	Phoenix Ins. Co.	P.White Co.	" " " " " " " "	"	12/31/15	3525.	121.08	3.36	3.36	117.72			800.	3.75	"	
7005397	London & Lancashire	Marq.Natl.Bk.	" " " " " " " "	"	" " "	3525.	121.08	3.36	3.36	117.72			500.	4.87	"	
						14100.	477.78	163.68	78.66	242.34	235.44		7050.			
1580	Providence-Washington	Marq.Natl.Bk.	Manager's Residence	3 Yrs.	12/ 1/12	3500.	36.75	25.16	11.59	36.75	0.00	Manager's Res.	10500.	1.05	None	
50269	Palatine Ins. Co.	" " "	" " " " " " " "	"	" " "	2000.	21.00	14.74	6.26	21.00	0.00					
1415	Queen Ins. Co.	" " "	" " " " " " " "	"	" " "	1750.	18.38	12.94	5.44	18.38	0.00					
101512	Com. Union Assurance Co.	" " "	" " " " " " " "	"	" " "	1500.	15.75	10.82	4.93	15.75	0.00					
5820232	Norwich Union	P.White Co.	" " " " " " " "	"	" " "	1750.	18.38	12.94	5.44	18.38	0.00					
6813995	" " "	" " "	" " " " " " " "	"	12/31/15	2500.	26.65	1.57	1.57	55.08						
101782	Com. Union Assurance Co	Marq.Natl.Bk.	" " " " " " " "	"	" " "	1500.	16.19	.71	.71	15.48						
50346	Palatine Ins. Co.	" " "	" " " " " " " "	"	" " "	2000.	21.58	.70	.70	20.88						
1757	Queen Ins. Co.	" " "	" " " " " " " "	"	" " "	1750.	18.88	.52	.52	18.36						
						21000.	223.56	76.60	37.16	113.76	109.80					
2894	Aetna Ins. Co.	P.White Co.	Carp Furnace	1 Yr.	12/31/12	2500.	93.25		93.25	93.25	0.00	Carp Furnace Only 2500. of ins. in force. 12/31/12- Rewritten for 1913	5000.	3.75	None	
691510	Granite State Fire Ins.	Marq.Natl.Bk.	" " " " " " " "	"	" " "	2500.	93.30		93.30	93.30	0.00					
108811	Com. Union	" " "	" " " " " " " "	"	5/28/13	2500.	93.30		35.50	35.50	0.00		Cancelled			
2217	North America	Peter White Co	" " " " " " " "	"	12/31/12	2500.	93.25		38.85	38.85	0.00		"			
1663	Queen Ins. Co.	Marq.Natl.Bk.	" " " " " " " "	"	" " "	2500.	93.30		77.23	77.23	0.00		"			
			Loss due to extending policies to expire	"	" " "		2.97		2.97	2.97	0.00					
			Less premiums on canceled policies			12500.	469.37		341.10	341.10	0.00					
							128.27									
							344.10									
3129	The Home Ins. Co.	Peter White	Carp Houses	3 Yrs.	12/ 1/12	1200.	16.20	11.25	4.95	16.20	0.00		Carp Houses	1200	1.35	None
3312	" " " "	" " "	" " " " " " " "	"	12/31/15	1200.	16.65		.45	.45	16.20					
						2400.	32.85	11.25	5.40	16.65	16.20					
3040241	Royal Exchange	Marq.Natl.Bk.	Fair Ave. House	3 Yrs.	12/ 1/12	1000.	9.50	6.64	2.86	9.50	0.00	Fair Ave. Ho.	1000.	.95	None	
4478710	" " "	" " "	" " " " " " " "	"	12/31/15	1000.	9.76		.40	.40	9.36					
						2000.	19.26	6.64	3.26	9.90	9.36					
6468149	London & Lancashire	Marq.Natl.Bk.	Locomotive	3 Yrs.	12/ 1/12	1000.	25.00	17.41	7.59	25.00	0.00	Locomotive	1000.	2.50	None	
7005398	" " "	" " "	" " " " " " " "	"	12/31/15	1000.	25.70		.86	.86	24.84					
						2000.	50.70	17.41	8.45	25.86	24.84					
			Grand Total			79600.	1579.37	288.14	614.55	902.69	676.68					

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Examined by W.H.

Distribution

Central Office Expense	79.92
Rented Buildings	106.42
Barn Account	9.96
Shop Labor	8.16
Chemical Supplies	3.24
Supplies	57.30
Switching	8.45
Carp Furnace Idle Exp.	341.10
	614.55

Pioneer Iron Company

Furnace Department.

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STATEMENT OF UNINSURED PROPERTY. DECEMBER 31st., 1912.

AT MARQUETTE, FURNACE NO.2

<u>Name of Property</u>	<u>Value</u>	<u>Remarks</u>
Engine & Pump House & Contents	12000.00 ✓	Incombustible
Stack & Stoves	16500.00 ✓	"
Hoist House & Contents	6000.00 ✓	"
Boiler House & Contents	60000.00 ✓	"
Cast House	15000.00 ✓	"
Stock House	14000.00 ✓	"
Dry Blast Building & Contents	10000000.00 ✓	"
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 & Contents	2500.00 ✓	" "
One Sodium Acetate Building & Contents	37000.00 ✓	" "
One Formaldehyde Building, Additions & Contents	20000.00 ✓	" "
One Acetone Building, Addition & Contents	40000.00 ✓	" "
One Colliers Shanty, Lime Shed & Contents	1200.00 ✓	Wooden Building,
One Machine, Smith and Electrician Shop Building	3000.00 ✓	Incombustible
Two Hose Houses	100.00 ✓	Wooden
One Hook & Ladder House	50.00 ✓	"
Fine Chemical Building & Contents	8000.00 ✓	Incombustible
" " " Addition & Contents	3500.00 ✓	Composite Structure
One Tar Still House and Tanks	3000.00 ✓	Wooden- Sheeted
Two Acetic Acid Buildings and Contents	30000.00 ✓	Incombustible
One Repair Shop	1000.00 ✓	"
One Acetic Anhydride Building	15000.00 ✓	"
One Sulphuric Acid Building	90000.00 ✓	"
One Acetic Acid & Anhydride Storage House	4000.00 ✓	Composite Structure
One Wood Retort Building & Contents	30000.00 ✓	" "
Gate House	300.00 ✓	Incombustible
2680 feet Smoke Mains	14000.00 ✓	Wooden
Four Batteries Smoke Condensers	40000.00 ✓	"
1010 feet Ore Trestles	7800.00 ✓	"
2040 feet Kilns Trestles	15700.00 ✓	"
280 feet Coal Trestle	2500.00 ✓	"
180 feet Lime Trestle	1200.00 ✓	"
86 Kilns	60000.00 ✓	Incombustible
One Pyrites Ore Bin	1500.00 ✓	Wooden

AT MARQUETTE, CARR RIVER FURNACE:-

Present insurance carried \$2500.00 on Furnace Property and \$1200.00 on the Tenement Houses.

Pioneer Iron Company

Furnace Department.

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ANNUAL COMPARATIVE STATEMENT OF PERSONAL INJURY EXPENSES, ACCOUNT #30

YEARS 1912 AND 1911

<u>ACCT.</u> <u>NO.</u>	<u>PIG IRON</u>	<u>1912</u>	<u>1911</u>
A	Thos. McNamara Funeral Expenses	212.00	
G	" " Ambulance & Medical service	6.75	
	Victor Koivin Hospital Attendance	37.70	
	Martin Kolstu " "		4.03
	Peter Jensen " "		10.28
	Jos. Markowski " "		25.14
	Total as per Cost Sheet	256.45 ✓	39.45 ✓
<u>ALCOHOL</u>			
A	Mrs. Ida Wightman, a/c H. Wightman (Mutual Settlement)		2843.50
B	" " " "		209.00
D	Legal Expenses		19.05
	Total as per Cost Sheet		3071.55 ✓
<u>ACETONE</u>			
G	Lukas Kozielski Hospital Attendance		2.50 ✓
<u>ACETIC ACID</u>			
G	Roy Richardson Medical Attendance		2.00 ✓
<u>ACETIC ANHYDRIDE</u>			
B	Robert Steele Wages Allowed	492.30	
G	" " Hospital Attendance	16.00	
	Total as per Cost Sheet	508.30 ✓	
<u>SPECIAL CHEMICAL PRODUCTS</u>			
G	Tony Pompo Medical Attendance	8.00 ✓	
GRAND TOTAL -----		\$772.75 ✓	\$3115.50 ✓

Pioneer Iron Company

Furnace Department.

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 Examined by [Signature]

Annual Comparative Statement of Taxes for the years 1912 and 1911

	Acres	Valuation	1912 Taxes	Valuation	1911 Taxes
<u>City of Marquette:</u>					
Furnace Plant (Real Estate)	114.50	525000.	9432.16 ✓	450000.	12482.89
" " (Personal)		247000. ✓	4437.60 ✓	165900.	4602.07
Manager's Residence		14000.	251.56 ✓	9400.	260.86
SW 1/4 of NE 1/4, Sec. 14-48-25	38.90	18000. ✓	323.41 ✓	5400.	149.80 ✓
Carp Furnace (Real Estate)	64.25	(20000. ✓	364.73 ✓	20300.	563.13
" " (Personal)		1400. ✓	25.19 ✓	1400.	38.85
Lots 71 & 73, Burt & Ely Add. #		1400.	31.16 ✓		
Lots 1 to 63 inc., Ely Park Add.		3000. ✓	53.90 ✓	3000.	83.23 ✓
Lot No. 2, Sect. 14-48-25	39.10	6000. ✓	107.81 ✓	3000.	83.23 ✓
Portion of Lot 301, Ely Park		200. ✓	3.60 ✓	200.	5.57 ✓
Total	256.75	836000.	15031.12 ✓	658600. ✓	18269.63 ✓

Charged to:-

	Per Cent		
	1912	1911	
Furnace	37	42	5132.00 ✓
Alcohol Plant	32	34	4438.00 ✓
Acetate Plant	5	5	693.40 ✓
Formaldehyde Plant	2	2	277.46 ✓
Acetone Plant	3	3	416.25 ✓
Acetic Acid Plant	3	3	416.25 ✓
Sodium Acetate Plant	1		138.70 ✓
Acetic Anhydride Plant	4		554.80 ✓
Sulphuric Acid Plant	11	8	1525.50 ✓
Special Chemical Products	1	1	138.70 ✓
Rented Buildings			448.42 ✓
Manager's Residence			251.56
Furnace Houses			138.70
Fair Avenue House			27.00 ✓
Carp Houses			31.16 ✓
Carp Furnace			389.92 ✓
F. A. Morse, Treasurer			461.72
Total	100	100	15031.12 ✓

Includes \$5.97 of 1911 taxes.

PIONEER IRON COMPANY.
Furnace Department.

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COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING YEARS 1912 AND 1911.

Account Of	Grade	Year 1912				Year 1911			
		Net Tons-Lbs.	Price	Amount	Net Tons-Lbs.	Price	Amount		
From James Pickands & Co.	Yough $\frac{3}{4}$				330-1500	3.250	1074.95		
" Lake Erie Ports	Egg				45-1000	1.920	87.36		
" " " "	Yough $\frac{3}{4}$	9635-1900	2.050	19753.65	9357-0850	2.140	20023.54		
" " " "	" $\frac{1}{4}$	195-0600	2.135	416.98					
Total -		9831-0500	2.052	20170.63	9733-1350	2.177	21185.85		
X Switching by Furnace Engine			.013	121.99		.022	215.78		
Supplies			.000	7.50		.003	32.13		
Lake Freight			.300	2949.37		.290	2820.86		
Unloading & Switching from Boat			.300	2954.45		.295	2871.99		
Insurance & Analysis			.007	64.62		.007	69.01		
X Dumping & Trimming			.059	584.95		.088	855.57		
Total -		9831-0500	2.731	26853.51	9733-1350	2.862	28051.19		
Inventory beginning of year		4363-0940	2.863	12490.75	5592-1590	2.656	14852.32		
GRAND TOTAL -		14194-1440	2.772	39344.26	15326-0940	2.799	42903.51		
<u>CHARGED TO:-</u>									
Central Power Plant		7160	2.790	19977.68	7009-0000	2.785	19517.61		
Acetate Plant		403	2.792	1125.37	821	2.756	2262.57		
Acetone Plant		2943	2.760	8121.69	2250	2.759	6208.58		
Special Chemical Products		42	2.849	119.65	106	2.829	299.89		
Locomotive		367-1440	2.788	1025.22	382	2.760	1054.44		
Locomotive Crane		59	2.849	168.10	96	2.840	272.67		
Sulphuric Acid Plant					81	2.901	235.04		
Wood Retort Plant		50	2.866	143.32	111	2.412	267.75		
New Construction		30	2.865	85.95	107	2.750	294.21		
Total -		11054-1440	2.783	30766.98	10963-0000	2.772	30412.76		
On Hand at End of Year		3140	2.732	8577.28	4363-0940	2.863	12490.75		
<u>SLACK COAL:-</u>									
From Lake Erie Ports					400-1150	1.628	651.99		
Switching by Furnace Engine						.012	5.00		
Lake Freight						.300	120.18		
Unloading & Switching from boat						.301	120.59		
Total -					400-1150	2.241	897.76		
<u>CHARGED TO:-</u>									
Sulphuric Acid Plant					177-0610	2.241	397.33		
On Hand at end of Year		223-0540	2.241	500.43	223-0540	2.241	500.43		
<u>POCONANTAS COAL:-</u>									
From James Pickands & Co.					4-1900	4.750	23.52		
Charged to Wood Retort Plant					4-1900	4.750	23.52		
On Hand at End of Year					0-0000		0.00		
<u>COKE:-</u>									
Local Dealers		508-1000	5.860	2979.87					
<u>CHARGED TO:-</u>									
Sulphuric Acid Plant		225	5.828	1311.17					
" " " Idle Expense		2	6.000	12.00					
Sodium Acetate "		281-1000	5.900	1656.70					
Total -		508-1000	5.860	2979.87					
On Hand at End of Year		0-0000		0.00					
<u>COKE BRAIZE:-</u>									
Local Dealers		259-700	2.776	720.36					
<u>CHARGED TO:-</u>									
Sulphuric Acid Plant		222-0400	2.791	620.06					
Total -		222-0400	2.791	620.06					
On Hand at End of Year		37-300	2.700	100.30					

REMARKS:-

X Dumping, Trimming and Switching charges 1912 low due to most of coal being handled and switched by Locomotive Crane.

PIONEER IRON COMPANY.
Furnace Department.

COMPARATIVE STATEMENT OF COAL PURCHASED AND USED DURING YEARS 1912 AND 1911.

Account Of	Grade	Year 1912			Year 1911		
		Net Tons-Lbs.	Price	Amount	Net Tons-Lbs.	Price	Amount
<u>PEA COAL:-</u>							
Local Dealers		26-500	5.076	133.25			
<u>CHARGED TO</u>							
Sulphuric Acid Plant		24-500	5.083	123.25 ✓			
Sodium Acetate Plant		2-	5.00	10.00 ✓			
Total -		26-500	5.076	133.25			
On Hand at End of Year		0-0000		0-00			
<u>STOVE COAL:-</u>							
Local Dealers		4-0000	7.500	30.00			
<u>CHARGED TO:-</u>							
Sodium Acetate Plant		4-0000	7.500	30.00 ✓			
On Hand at End of Year		0-0000		0.00			
<u>NUF COAL:-</u>							
Local Dealers		3-0000	7.750	23.25			
<u>CHARGED TO:-</u>							
Sulphuric Acid Plant		3-0000	7.750	23.25 ✓			
On Hand at End of Year		0-0000		0.00			
<u>HARD COAL SCREENINGS:-</u>							
Local Dealers		3-0350	2.00	6.35			
<u>CHARGED TO:-</u>							
Sulphuric Acid Plant		3-0350	2.00	6.35 ✓			
On Hand at End of Year		0-0000		0.00			

Pioneer Iron Company

Furnace Department.

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Examined by JK

STATEMENT OF THE BASIS OF DIVISION OF COMMON EXPENSES

YEAR 1912

Central Office Expense	Based on Operating Pay Rolls
Laboratory Expense	" " " " "
Chemical Superintendence #	" " " " "
Central Power Expense	Based on Steam, water, and Electric Current used.
Barn Expense	Based on Horse hours worked
Switching Expense	Based on Cars Handled
Crane Expense	Based on hours worked
Shop Labor	Based on hours worked
Tracks & Yard	Based on Operating Pay Rolls
General Yard Expense	Based on Operating Pay Rolls

Alcohol, Acetate, Formaldehyde, Acetone, Sodium Acetate and Acetic Anhydride Plants only.

PIIONEER IRON COMPANY
Furnace Department

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ANNUAL STATEMENT OF PLANT ACCOUNT FOR THE YEAR, 1912.

Sheet No. 1

No.	AUTHORIZATION	Amount	Work to be Completed	Current Year	C O S T		Work was Completed	Cost Sheet or Account	DISPOSITION		Total To Date	Bal. Now Carried Amount	Remarks				
					Total To date	Unexp'd. Balance			Current Year	Total Year							
7	Furnace		#		420870	02	3/03	Pig Iron	Dep. 1.00 Ton	34738	00	84244	02				
	Additional Skip		1	27	675	00	2/04					675	00				
4	Fence Around Plant	125.00	252	65	Not Spec		4/04						252	65			
	Sup. Est.	6.15															
49	Revolving Top	2500	8	15	08		10/08						2196	57			
51	Gayley Dry Blast	90257	00	Not Spec.	101097	43	10840	43	7/09				101097	43			
	TOTAL FURNACE				525091	67				34738	00	336626	00	168465	67		
1	Kilns				104443	73	11/03	Charcoal	Dep. 1/8 Bu.	7491	26	76565	60	27878	13		
	Six New Kilns	6866	40	8	10	03	8/05	"	"	478	15	2854	94	4206	87		
	TOTAL KILNS				111905	94				7969	41	79420	54	32085	00		
	Alcohol Plant		#		433732	10	6/03	Alcohol	Dep. 1.0% Yr.	43380	00	411217	35	22514	75		
								Sale of Scrap				890	27		252		
4	Fence Around Plant	246.50	252	64	Not Spec		4/04							252	64		
	Sup. Est.	6.14															
19	Chute Apparatus	9346	80	Not Spec.	4399	64	12/05	Alcohol	Dep. 1.5% Yr.	660	00	4015	00	384	64		
	Experimental Condensers		#		558	21	10/06	"	"			557	21	1	00		
56	Lumas Column	6194	20	3	1	09	4/09	"	25%	1540	92	5264	81	898	67		
45	Alcohol Storage Tanks	3644	50	1	10	08	5/08	"	20%	701	88	2866	01	643	20		
71	Remod. Prim. Bldg. & Ref. App.	17497	70	3	15	10	1/12	"	35%	7401	00	13460	52	8985	03		
72	Cont. Column for Neut. Liquor	7810	00		18	50	2/12	"	33%	4261	36	6864	76	6354	43		
73	Cont. Vac. Dist. App.	54230.00	56924	00	12	10	7/11	"	33%	21553	32	39630	00	25683	26		
	Sup. Est.	2694.00															
66	Repair Shop for Tanks & Stills	1137	10	12	30	09	8/10	"	35%	552	36	970	80	703	05		
79	Two Columns & acc's.	3300	00	10	22	10	7/11	"	33%	544	50	2789	71	544	57		
	TOTAL ALCOHOL PLANT				751	84	534601	44		81485	61	487636	17	66965	27		
	Acetate Plant				29870	52	5/04	Acetate	Dep. 1.0% Yr.	3120	00	25700	00	4170	52		
9	Installing Acetate Pans	3500	00	1	1	05	4/18	22	689	22	3/05	497	52	3525	30		
22	Dry Floor	4818.00	7818	00	7	30	06	7993	65	175	65	10/06	1090	08	6540	48	
	Sup. Est.	3000.00															
30	Acetate Exp. Tower	3108	47	9	1	07	2859	15				2858	15	1	00		
11	Lillie Evaporator	8050	00	9	30	05	8412	41362	41	10/05		722	52	6724	46		
17	Acetate Conveyor	1000	00	9	15	05	486	15	9/05	"	10%	41	28	389	87		
36	12 New Acetate Tanks	2671.47	2875	68	7	1	07	2875	68	8/07	"	15%	448	08	2277	74	
	Sup. Est.	204.21															
68	Acetate Dryer	26834	50	12	10	10	1650	00	29958	28	3123	78	2/12	"	25%	7317	66
91	Acetate-Acetone Conveyor	2113	52	3	16	12	2032	83	2032	83	80	69	4/12	"	35%	338	60
	TOTAL ACETATE PLANT				3682	83	88677	89				13575	94	59028	76		
6	Formaldehyde Plant	14356	41	Not Spec	26455	69	12099	28	4/04	Formaldehyde	Dep. 1.0% Yr.	2820	00	23835	85		
33	Formaldehyde Plant Add.	12128.08	12998	08	7	15	07	12999	68	10/07	"	16%	2095	56	10652	43	
	Sup. Est.	870.00															
55	Formaldehyde Storage Tanks	1410	00	2	28	09	1343	07	66	93	11/09	"	33%	324	42		
	Sup. Est.	204.21															
	TOTAL FORMALDEHYDE PLANT				40398	44						5239	98	35382	22		
35	Acetone Plant	10084.02	14684	02	10	15	07	14636	67	11/07	Acetone	Dep. 1.0% Yr.	1463	64	7440	17	
	Sup. Est.	4600.00															
54	Acetone Plant Addition	14068	14	1	1	09	18523	92	4455	78	3/09	Refund fro, F.H.Meyer		1000	00		
57	Two New Acetone Retorts	5103	06	11	30	09	5802	18	699	12	12/09	"	12%	725	28		
58	One Acetone Retort	2758	06	11	30	09	2901	05	142	99	12/09	"	12%	362	64		
82	Three New Acetone Retorts	10076	00	3	10	11	10936	19	862	19	5/11	"	14%	1540	08		
93	Exp. Acetone Retort	1917	00	3	23	12	1881	31	1881	31	8/12	"	.0038 lb.	1881	31		
	Sup. Est.	204.21															
	TOTAL ACETONE PLANT				1881	31	54683	32				8083	03	24301	16		
44	Fine Chemical Building	10917	50	Not Spec	9145	33	10/10	Spec. Prods	Dep. 1.0% Yr	914	52	2675	52	6469	81		
60	Exp. Electrolytic Cell	4411	50	11	10	09	3982	40	3/10	"	"	10%	384	40	1114	00	
48	Tar Still & Accs.	3000	00	9	30	08	3069	31	69	31	1/09	"	"	10%	306	96	
	Sup. Est.	204.21															
	TOTAL SPECIAL PRODUCTS				16197	04						1605	88	4710	40		
77	Sulphuric Acid Plant	11600	00	7	20	10	174888	58	58888	58	11/11	Sul. Acid Optg	Dep. 1.0% Yr.	14574	00		
81	Sulphuric Acid Storage Tanks	7700	00	12	15	10	8006	51	306	51		"	"	667	20		
	Sup. Est.	204.21															
	TOTAL SULPHURIC ACID PLANT				162895	09						16289	44	26823	12		
69	Sodium Acetate Apparatus	22880	00	12	10	10	1417	25	25352	41	2472	41	2/12	Sod. Acetate	Dep. 1.0% Yr.	2474	95
59	Acetic Acid Plant	27223.30	2	2	10		41891	74	14668.44	8/10	Acetic Acid Optg	"	10% Yr.	4189	20		
80	Acetic Acid Storage House	2223	15	9	30	10	2496	70	275	55	8/11	"	"	277	68		
86	Acetic Acid Storage Vessels	3319	00	9	1	11	3082	50	236	50	10/11	"	"	354	09		
88	Acetic Acid Refining Apparatus	11963	00	10	20	11	4015	26	11995	38	32	38	8/12	"	15%	395	46
	Sup. Est.	204.21															
	TOTAL ACETIC ACID PLANT				4015	26	59468	32				5216	43	12105	63		
	FORWARD				11748	49	168871	16				178678	67	1070508	95		
														588362	21		

PIONEER IRON COMPANY
Furnace Department

ANNUAL STATEMENT OF PLANT ACCOUNT FOR THE YEAR, 1912 .

No.	AUTHORIZATION	Amount	Work to be Completed	Current Year	C O S T			DISPOSITION				Bal. Now Carried Amount	Remarks
					Total To Date	Unexp'd. Balance	Work was Completed	Current Year	Total To Date	Current Year	Cost Sheet or Account		
74	Two Meyer Retorts	15400.00	2 27 11		45670 40	29110 40	11/11					45670 40	
80	Acetic Anhyd. Storage House	2223 16			2498 70	275 56	8/11	Acet. Anh. Optg.	Dep. 10% Yr.	229 02	229 02	2269 68	
	TOTAL ACETIC ANHYDRIDE PLANT				48169 10					229 02	229 02	47940 08	
87	Motor Generator Set	8282 00	10 7 11	42 42	8834 88	552 88	3/12	Alcohol Optg.	Dep. 20% Yr.	88 34	88 34		
								Acetate Optg.	" " "	135 47	135 47		
								Hyd. Optg.	" " "	5 87	5 87		
								Acetone Optg.	" " "	5 87	5 87		
								Acet. Acid "	" " "	70 67	70 67		
								Sodium Acetate	" " "	41 21	41 21		
								Acetic Anhyd	" " "	117 85	117 85		
								Sulph. Acid	" " "	111 96	111 96		
								Spec. Prods.	" " "	11 74	11 74		
	TOTAL MOTOR GENERATOR SET			42 42	8834 88					589 00	589 00	8245 88	
3	Five New Tenement Houses	7220 00	12 24 03		7220 00		1/05	Rented Bldgs	Dep. Net Ea.	1910 97	2912 78	4307 22	
	Manager's Residence		#		10049 50					1000 00	3958 17	6691 33	Purchased in July 1903
10	Imp. Site, Tenement Houses	1310 09	Not Spec.		1310 09		6/05	" " "	" " "		360 81	929 28	
	Sup. Est.	212.48											
	TOTAL HOUSES	19179 59			19179 59					2910 97	7251 76	11927 83	
	BROUGHT FORWARD FROM SHEET NO. 1				11748 49	1658871 16				178678 67	1070508 95	588362 21	
	TOTAL NO. 2 FURNACE				11790 91	1735054 73				182407 66	1078578 73	656476 00	
	Carp Furnace				31961 98								
21	Carp Hot Blast	2438 96	5974 58		5974 58		1/07	Carp Pig Iron	Dep. 1.00 ton		14728 00	17233 98	Based on iron produced
	Sup. Est.	3535.62										5974 58	
	TOTAL FURNACE				37936 56						14728 00	23208 56	
	Carp Kilns				13038 02						4867 82	8170 20	
	Carp Tenement Houses	1380.00	1895 00		1533 47		8/07	Carp Charcoal	Dep. 1/2 Bu.		84 10	1449 37	
	Sup. Est.	515.00						Rented Bldgs	" Net Ea.				
	TOTAL CARP PLANT				52508 05						19679 92	32828 13	
	GRAND TOTAL PLANT ACCOUNT				11790 91	1787562 78				182407 66	1078578 65	689304 13	
8	Filtration Plant	1335.40	1585 40	Not Spec	1646 81	61 45	5/05					1646 81	
	Sup. Est	250.00											

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

PIONEER IRON COMPANY
Furnace Department

Made by CWA
Figured by _____
Copied by _____
Corrected by _____
Examined by [Signature]

ANNUAL STATEMENT OF EQUIPMENT FOR THE YEAR, 1912.

No.	AUTHORIZATION	Amount	C O S T				DISPOSITION			Balance now Carried
			Work to be Completed	Current Year	Total to date	Unexp'd. Balance	Work was Completed	Cost Sheet or Account	Current Year	
63	Locomotive Crane	7975 00	11 09	7975 00	12 09	Optg. Crane	Dep. 20% Yr.	1593.00	4779 00	3196.00
89-90 & 95	Tank Cars	27915 00	8 4 12	11480 23	28027 23	112.23 9 12	Sul. Acid Rentals Mileage	Dep. Tank Cars	1008 00 279 00 149 77	1350 00 297 00 222 89
TOTAL				11480 23	28027 23			1436 77	1869 89	26157 34
98	Charcoal Cars	8721 00	8 4 12	66 09	66 09	8654 91				66 09

PIONEER IRON COMPANY
Furnace Department

Made by C. W. S.
Figured by _____
Copied by _____
Corrected by _____
Examined by [Signature]

ANNUAL STATEMENT OF NEW CONSTRUCTION FOR THE YEAR, 1912.

AUTHORIZATION	Amount	Work to be Completed	C O S T			DISPOSITION	Current Year	Total to date	Balance Now Carried
			Current Year	Total to date	Unexp'd. Balance				
99 Storage Tanks for Alcohol	1705.00								
94 Formaldehyde Bottling Equip.	1599.00	9 21 12	3137 35	3137 35	1538 35			3137 35	
101 Formaldehyde Storage Tanks	2200 00								
104 2nd Add. to Formaldehyde Plt.	5519 89								
TOTAL			3137 35	3137 35				3137 35	
102 Acetic Acid Storage Tanks	1853 50								
100 Storage Tanks for Acetone	2046 00								
96 Exp. Acetone Retort No. 2	1980 00	9 30 12	1969 00	1969 00	11 00	Acetone Optg. Dep. .0038 Lbl47 05	147 05	1821 95	
97 Add. Acetone Ref. App.	3281 00								
TOTAL			1969 00	1969 00			147 05	1821 95	
70 Acetic Anhydride Plant	62230 50	6 13 10	5022 96	64623 25	2392 75	Anhyd. Optg Dep. 10% Yr. Refund from F.H. Meyer	5677 31 945 41	5677 31 945 41	58000 53
103 Sulphuric Acid Compressor	1050 00	1 28 13	400 00	400 00	650 00			400 00	
105 Sintering Plant	21560 00								
92 Safety Appliances	4002 00	7 30 12	1045 75	1045 75	2956 25	Charcoal Dep. Reps. Furnace Maint. Anhyd. Maint. Acetate Maint. Alcohol Maint. Formaldehyde Maint Acetone Maint. Sod. Acetate Maint Supplies Dep. C. Power	322 74 103 60 79 38 3 07 302 23 21 09 6 30 2 61 204 73	322 74 103 60 79 38 3 07 302 23 21 09 6 30 2 61 204 73	0 00
TOTAL			1045 75	1045 75			1045 75	1045 75	0 00
GRAND TOTAL			11575 06	71175 35			7815 52	7815 52	63359 83

Pioneer Iron Company

Furnace Department.

Made by 480 33
 Figured by 480
 Copied by 480
 Corrected by 480
 Examined by 480

ANNUAL STATEMENT OF PLANT ACCOUNT AND NEW CONSTRUCTION CHARGED OFF DECEMBER 31ST., 1912

Auth. No.	Description	Amount Authorized	Total Cost
Furnace Group:-			
# 42	Acetate Storage House	1364.98	1347.13 -
61	Steam Pressure Regulator	440.00	432.42 -
76	New Side Track	1799.16	2100.00 +
75	New Fence Around Plants	3864.00	5139.69 +
85	Fire Alarm System	703.56	694.86 +
64	Repairs to Wood Trestles	6783.51	6783.04 +
93	Experimental Acetone Retort	1917.00	1881.31 -
			18,378.45
Carp Group:-			
23	Addition to Carp Cast House	1170.00	1186.39
	Carp Smoke Condensers		41.00
	Carp New Kilns	3150.00	15.00
House Group:-			
	Repairs to Rented Houses, No.2 Furnace		446.76
	Repairs to Rented Houses, Carp Furnace		3.15
	Tenement Houses, No. 2 Furnace		15703.59

18378.45
 15703.59
 34082.04

Remarks:-

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

PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

Stock Report of Ore, Wood, Charcoal, etc., for Month ending

DECEMBER, 31st.,

(42)
1912.

Corrected copy

COMMODITY	PRODUCED AND RECEIVED				SHIPPED AND USED				
	Total for Month	Total from Jan'y 1st, 1912.	On Hand Jan'y 1st, 1912.	Total	DISPOSITION	Total for Month	Over and Short for Year	Total from Jan'y 1st, 1912.	Balance on Hand
Ore:									
Lake Gross Tons	2197- 620	41068-1680	906-0000	41974-1680		1495- 620	1010-2228	41272-1680	702-0000
Negaunee " "		7827- 20	522-0000	8349- 20			61- 997	8349- 20	
Clinton " "		2491- 760		2491- 760		307- 782		2212- 760	279-0000
Clinton Silica " "		5626-1560		5626-1560		159- 441	146-1824	5626-1560	
Cliffs Shaft " "			400-0000	400-0000		136- 575		400-0000	
North Lake " "		6573- 980		6573- 980		791-1457		6016- 980	557-0000
North Lake Silica " "		193-1280		193-1280				193-1280	
Morris " "		99-1540		99-1540				99-1540	
Maas " "	2754-1940	4756- 60		4756- 60		1737-1140		3688- 60	1068-0000
Pyrites Cinder " "	349- 708	2490-0000		2490-0000					2490-0000
TOTAL	5301-1029	71126-1160	1828-0000	72954-1160	TOTAL	4627- 535	1219- 569	67858-1160	5096-0000
Limestone Gross Tons	22- 120	1528-1240	845-0000	2373-1240		112- 260		2203-1240	170-0000
Iron Pyrites " "		3089. 448	5718.75	8807.523		514.2133		3712- 523	5095-0000
Sulphuryl Chloride " "			108.974	108.974		3.1914		57-974	51-0000
Phosphate Rock	44.1040	114.440		114.440		13.1040		83.440	31-0000
Cordwood Received 50° Cord	6771.50	75100.25		75100.25	Kilns Retorts Retort Yard Wood Yard	6716.50		74434.25	
						55.00		433.50	
TOTAL	6771.50	75100.25		75100.25	TOTAL	6771.50		75100.25	
Kiln Wood 50° Cord	6716.50	74434.25		74434.25		6716.50		74434.25	
Retort Wood 50° Cord		260.00		260.00				260.00	
Retort Yard Wood 50° Cord			66.00	66.00	Retorts Sold			27.50	
								38.50	
TOTAL			66.00	66.00	TOTAL			66.00	
Yard Wood 50° Cord	55.00	433.50		433.50	Kilns Sales Various	55.00		433.50	
TOTAL	55.00	433.50		433.50	TOTAL	55.00		433.50	
Charcoal Bu.									
Kiln Product " "	292839	3187758	231600	3419358	Through Furnace	211920		3239652	
Retort Product " "		12120		12120	Various	4141		45555	
Purchased " "		72735		72735	Sales	36		222	
TOTAL	292839	3272613	231600	3504213	TOTAL	216097		3285429	218784
Made by <u>N. J. D.</u>									
Figured by <u>N. J. D.</u>									
Copied by <u>N. J. D.</u>									
Corrected by <u>N. J. D.</u>									
Examined by <u>N. J. D.</u>									

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PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.

REGULAR & SPECIAL

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

1912

PIG IRON GRADES	PRODUCTION							SHIPMENTS				Balance in Stock
	Current Week	Total for Month	Over and Short for Season	Total Produced Since Jan. 1st, 1912	Transferred to and from	On Hand Jan. 1st, 1912	Total Produced and in Stock Since Jan. 1st, 1912	Current Week	Total for Month	Over and Short for Season	Total Since Jan. 1st, 1912	
A. A. Scotch												
A Scotch				655 ✓		2613	3268	49	136		1604	1664
B Scotch	19	101		1402 ✓	100	266	1568	97	167		895	673
C Scotch	54	143	9	1558 ✓	100	1761	3419	54	318	9	2910	509
No. 1 Low	127	283	16	2727 ✓		1174	3901	30	181	16	1682	2219
No. 1 High	75	302	1	2062 ✓		3143	5205	25	104	1	1293	3912
No. 2 Low	98	541	5	3172 ✓		2958	6130		58	5	1477	4653
No. 2 High	111	412		5507 ✓	300	7868	13675	35	84		243	13432
No. 3 Low	110	267		7643 ✓	300	1614	8957	39	235		3359	5598
No. 3 High	133	148	14	4673 ✓		2469	7142	43	178	14	3221	3921
No. 3 Low Car Wheel						163	163					163
No. 3 High Car Wheel												
No. 4 Low	36	36		1813 ✓		1168	2981	35	35		2732	249
No. 4 High	8	8	10	887 ✓	53	771	1711			10	1216	495
No. 4 Low Car Wheel												
No. 4 High Car Wheel												
No. 5 Low	33	55	27	1211 ✓	53	969	2127		24	27	1234	893
No. 5 High	9	9		804 ✓	84	909	1629				627	1002
No. 6				598 ✓	84	1544	2226	27	52		932	1294
TOTAL,	813	2305 ✓	26	34712 ✓		29390	64102	434	1622	26	23425	40677
All Rail Shipment								434	1622 ✓		9507 ✓	-
Lake Shipment											13918 ✓	-
Regular Grades											3288	-
Total Regular and Special Grades	813	2305	26	34712 ✓		29390	64102	434	1622 ✓	26	23425 ✓	40677

Made by H.A.
 Figured by H.A.
 Copied by FD
 Corrected by H.A.B.
 Examined by R.

PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.

SPECIAL IRON

Pig Iron Stock Report for the Week Ending Dec. 31st., 1912.

PIG IRON GRADES	PRODUCTION							SHIPMENTS				Balance in Stock	
	Current Week	Total for Month	Over and Short for Season	Total Produced Since Jan. 1st, 1912	Transferred to and from	On Hand Jan. 1st, 1912	Total Produced and in Stock Since Jan. 1st, 1912	Current Week	Total for Month	Over and Short for Season	Total Since Jan. 1st, 1912		
A. A. Scotch													
A Scotch						163	163						163
B Scotch						82	82						82
C Scotch						497	497				298		199
No. 1 Low				29 ✓		677	706					✓	706
No. 1 High				62 ✓		1537	1599					✓	1599
No. 2 Low				151 ✓		945	1096						1096
No. 2 High				430 ✓	300	5959	6689				25		6664
No. 3 Low				18	300	751	469				24		445
No. 3 High			11	30		910	940			11	102		838
No. 3 Low Car Wheel													
No. 3 High Car Wheel													
No. 4 Low				48		321	369	35	35		206		161
No. 4 High				29		458	487						487
No. 4 Low Car Wheel													
No. 4 High Car Wheel													
No. 5 Low				37		612	649						649
No. 5 High				59		313	372						372
No. 6				5		1316	1321	27	27		27		1294
TOTAL,			11	898		14541	15439	62	62	11	684		14755
All Rail Shipment													
Lake Shipment													
Regular Grades	813	2305	37	33814		14839	48663	372	32372	37	22741		25922
Total Regular and Special Grades	813	2305	26	34712 ✓		29390	64102	434	434	26	23425 ✓		40677

Made by H.A.H.
 Figured by H.A.H.
 Copied by H.A.H.
 Corrected by H.A.H.
 Examined by P.H.

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PIONEER IRON COMPANY.
PIONEER FURNACE No. 2.

HIGH PHOSPHORUS IRON

Pig Iron Stock Report for the Week Ending Dec. 31, 1912.

PIG IRON GRADES	PRODUCTION							SHIPMENTS				Balance in Stock
	Current Week	Total for Month	Over and Short for Season	Total Produced Since Jan. 1st, 1912	Transferred to and from	On Hand Jan. 1st, 1912	Total Produced and in Stock Since Jan. 1st, 1912	Current Week	Total for Month	Over and Short for Season	Total Since Jan. 1st, 1912	
A. A. Scotch				1912		1912	1912				1912	
A Scotch				218			218	49	116		116	102
B Scotch	19	19		378			378	39	109		187	191
C Scotch	29	29		466			466		186		234	232
No. 1 Low	107	107		698			698		122		122	576
No. 1 High	35	35		271			271					271
No. 2 Low	63	63		371			371				108	263
No. 2 High	26	26		125			125				58	67
No. 3 Low	16	16		16			16					16
No. 3 High												
No. 3 Low Car Wheel												
No. 3 High Car Wheel												
No. 4 Low												
No. 4 High												
No. 4 Low Car Wheel												
No. 4 High Car Wheel												
No. 5 Low												
No. 5 High												
No. 6												
TOTAL	225	225		2543			2543	88	533		825	1718
All Rail Shipment												
Lake Shipment												
Regular Grades												
Total Regular and Special Grades												

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

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PIONEER IRON COMPANY.

FURNACE DEPARTMENT.

(37)

Stock Report of Chemical Products for the Month ending DECEMBER 31ST., 1912.

Form 110A, 9-10, 500-8

COMMODITY	PRODUCED AND RECEIVED.							SHIPPED AND USED.							
	TOTAL FOR THE MONTH			Overruns, Shortages for the Year	Total from		Grand Total	DISPOSITION	TOTAL FOR MONTH			Overruns, Shortages for the Year	Total from		Balance on Hand
	As Made	By Cost	Per Grades		Jan. 1st, 1912.	Jan. 1st, 1912.			Per Grades	By As	Per Grades		Jan. 1st, 1912.	Jan. 1st, 1912.	
ALCOHOL PLANT	95%	27477 ✓		289606	25	317057 ✓	25057	342115	Shipped & Used 95%	19866		300093	25	319934	22180
Alcohol made—	Gals. 95 %	23319	23319	204443	25	227736	25057	252794	Shipped Gals. 95 %	55		36306	25	36336	
	" 97 "	1235	1220	39046		40256		40256	Used " 98%	19811 ✓		263787		283598	
	" 98 "			750		750		750	Grades Shipt " 98 "	55	55	28055	25	28085	
	" 99 "	2923	2805	42584		45389		45389	" 97 "			8081		8081	
	" 92%			150		150		150	" 99 "						
									Used in						
									Formaldehyde 95%	15653	15653	182363		198016	
									Denaturing "					780	
									Diamond Spirits 99 "	5	5	775		1200	
									Perfume "			1200		50	
									Soap "			50		1500	
									Solvent No. 1 97 "			1500		412	
									" " 11 95 "			412		41	
									" " 12.53 97 "			41		750	
									" " 28.34 98 "			750		50	
									" " 26.44 97 "			50			
									" " 29 "						
									Alcohol #5 99 "	2918	2800	38039		40839	
									" 10 99 "			470		470	
									Spl. Spts. #1 99 "			1500		1500	
									Methyl Acetone A 95 "			2600		2600	
									" " AA 97 "	10	10	19397		19407	
									" " AAA 97 "			87		87	
									Alcohol No. 5 97 "	1225	1200	9939		11139	
									Methyl Acetate						
									Spec. Denat. 95			1500		1500	
									British Excise 92			150		150	
									Alcohol No. 3 99			200		200	
									Solvent No. 34 99			300		300	
									Total	19866	19723	297461	25	317159	
Alcohol Returned	95%			3583		3583		3583	Shipped & Used 95%			3583		3583	
	97%			3294		3294		3294	Shipped 95%			1138		1138	
	97			283		283		283	97%			283		283	
									Used In						
									Formaldehyde 95%			2156		2156	
									Total			3577		3577	
Alcohol Purchased—Gals.	95 %	4850		19572		24422		24422	Used In 95%	9852		14570		24422	
The C.C.I. Co. "	99 "			4800		4800		4800	Alcohol No. 5 99%			4710		4710	
The C.C.I. Co. "	95 "	4850	4850	4800		4850		4850	Solvent #43 99%			90		90	
M.C. & I. Co. "	95 "			14570		14570		14570	Methyl Acetone A 95			5160		5160	
Alcohol Returned—Gals.	"								Amyl Acet. Thin. 95			100		100	
" " "	"								Solvent No. 11 95			2472		2472	
" " "	"								Denat. Alco. 95	3975 ✓		1000		4975	
" " "	"								Formaldehyde 95	5876 ✓		835		6711	
TOTAL		4850	4850	19370		24220		24220	Total	9852		14367		24219	
Sodium Acetate	Lbs.	32500 ✓		449917		482417		482417	Shipped			2001		2001	
									Used In						
									Acetic Anhydride	32500 ✓	19500	267950		287450	
Total									Total	32500	19500	449917		482417	

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PIONEER IRON COMPANY.
FURNACE DEPARTMENT.

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Stock Report of Chemical Products for the Month ending DECEMBER 31ST., 1913.

Form 110A 9-10-500 S

COMMODITY	PRODUCED AND RECEIVED.							SHIPPED AND USED.						
	TOTAL FOR THE MONTH		Total for Previous Month	Overruns, Shortages for the Year	Total from		Grand Total	DISPOSITION	TOTAL FOR MONTH		Total for Previous Month	Overruns, Shortages for the Year	Total from Jan. 1st, 191 2.	Balance on Hand
	Per Post Grades	By As Grades			Pen. Cost Sheet	By As Grades			Pen. Cost Sheet	By As Grades				
C. P. ACETONE PLANT														
Acetone—U. S. P. Made Lbs.	171000 ✓		1685627	1405	1855222 ✓	15950	1871172	Shipped & Used	81405		1592326	1405	1672326	128346
Acetone—S. P. G. " "	171000	171000	1353937	1405	1523532	15950	1539482	U. S. P. Shipped Lbs.	81340 ✓		1564280	1405	1644215 ✓	
			301535		301535		301535	S. S. P. Used	65 ✓		28046		28111 ✓	
								Shipped Grade						
								USP	81340	81340	1232590	1405	1312525 ✓	
								SPG			301535		301535 ✓	
								Used In Grade						
								Methyl Acetone A						
								" " AA						
								" " AAA USP			52		52 ✓	
								No. 5 Alcohol "			23241		23241 ✓	
								No. 10 " "			205		205 ✓	
								R. L. A. Oils						
								Superior Spirits						
								Chloroform "	65 ✓	65	1151		1216 ✓	
								Spl. Denat. Alco. "			3330		3330 ✓	
								Solvent No. 43 "			67		67 ✓	
Total	171000	171000	1655472	1405	1825067	15950	1841017	Total	81405	81405	1562171	1405	1642171	
Acetone—U. S. P. Returned Lbs.			49332		49332		49332	Shipped U. S. P. Lbs.			49332		49332 ✓	
Acetone—S. P. G. " "								" S. P. G. " "						
								Used in						
Total								Total						
GRAY ACETATE OF LIME PLANT								Shipped Lbs.						
Made Lbs.	508000 ✓		4845640		5353640 ✓		5353640 ✓	Used in						
								Acetone	508000 ✓		4845480		5353480 ✓	
								Acetic Acid						
								Methyl Acetate			160		160 ✓	
								Acetone AAA						
								Solvent No. 1						
Made by <i>RWS</i>														
Figured by <i>Ja</i>														
Copied by <i>Ja</i>														
Corrected by <i>Ja</i>														
Examined by <i>Ja</i>														
Total								Total	508000		4845640		5353640	
Gray Acetate of Lime Purchased Lbs.								Used in Lbs.						
Gray Acetate of Lime Returned								Acetone	488522		4435720		4924242 ✓	
The C. C. I. Co.	449876		5400547		5850423	139681	5990104	Acetic Acid	199013 ✓		3397233		3596246 ✓	
W. S. Gray & Co.	321691		2692662		3014353		3014353							
Total	771567		8093209		8864776	139681	9004457		687535		7832953		8520488	483969

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PIONEER IRON COMPANY.
Furnace Dept.

Report of Empty Containers Month of DECEMBER, 1912.

RECEIVED						SHIPPED			
	Total for mo.	Over & Short for Year	Total For Year	On Hand Jan. 1 '12	Total	Total for month	Total for Year	Balance On Hand	
<u>Stock of Iron Drums at Marquette</u>									
Small D	10		37	19	56	1	34	22	
Small	39		740	126	866	2	639	227	
Medium	634		4498	351	4849	227	4131	718	
Large			72	4	76		50	26	
<u>Stock of Iron Drums at Gladstone</u>									
Small	23		586	45	631	15	556	75	
Medium	14		550	101	651	44	566	85	
Large									
<u>Stock of Iron Drums at Warehouse & Customers</u>									
Small D	1		34	51	85	10	37	48	
Small	17		878	288	1166	62	813	353	
Medium	270		4293	1029	5322	547	3835	1487	
Large			50	26	76		72	4	
<u>Acetic Acid Barrels at Marquette</u>									
Barrels	547	215	5054	474	5528	407	5157	371	
Hlf. Bbls.		10		10					
<u>Acetic Acid Barrels at Warehouse & Customers</u>									
Barrels	407		5157	1658	6815	532	4544	2271	
Hlf. Bbls.									
<u>Stock of Carboys at Marquette</u>									
Carboys	650		5308	534	5842	2	3850	1992	
<u>Stock of Carboys at Warehouse and Customers</u>									
Carboys	2		3850	2569	6419	652	2675	3744	

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Made by W. J. J.
 Figured by J. A.
 Copied by J. A.
 Corrected by J. A.
 Examined by J. A.