

MINE DEPARTMENT:

- ✓ 35 Ashland Mine Cost Sheet
- 36 Maas " " "
- 37 Mesaba Range " "
- 38 Swanzy Expl. " "
- 39 " " Drilling Cost
- 40 Statement of Expense at Maas Mine
- 41 " " on Mesaba Range
- 42 " " " Diamond Drill Work, Ashland Mine
- ✓ 43 " " Barn Expense " "
- ✓ 44 Summary of Teaming Cost, Hard Ore and Ashland Mine
- 45 Weekly Mine Report, Nov. 30th, 1902
- ✓ 46 Statement of Rented Houses at Ashland Mine
- ✓ 47 " " " " " Maas "
- ✓ 48 " " " " " Imperial "
- ✓ 49 " " " " " Webster "
- ✓ 50 Record of Fire Insurance on Mine Buildings
- ✓ 51 Details of Accounts Receivable
- 52 " " " Payable
- 53 Comp Statement of General Expense
- 54 " " " " " All Companies
- ✓ 55 Statement of Salaries and Perquisites, All Companies
- ✓ 56 Nationalty Statement
- 57 COMP. Statistics, 6 Years, of Accidents, Causes & Exp.; also Nationalty
- ✓ 58 Statement of Coal Delivered to Various Mines During 1902 *5 years*
- ✓ 59 " " " Purchased " "
- ✓ 60 Stmt. Showing Amt. & Cost Coal Used, and Lbs. Per ton of Ore (All Companies)
- ✓ 61 Comp. Stmt. Taxes, Michigamme Township, Ashland Mine, Iron County
- ✓ 62 " " " Imperial Minr, Webster, Michigamme, Champion, Etc.
- ✓ 63 " " " Showing Various Funds
- ✓ 64 " " "
- ✓ 65 Stmt. Cost for Analysis, incld. Sampling & Crushing for Each Mine
- ✓ 66 Analysis of Donation Account
- ✓ 67 Analysis of Improvement and New Construction
- ✓ 68 Recapitulation of Inventory Accounts
- ✓ 69 Record of delays from Various Causes
- ✓ 70 Statement of Accident Benefit & Suspense Fund
- ✓ 71 Summary From Labor Statements, Aol Companies
- 72 Record of Delays from Various Causes, Ashland Mine
- 72 Summary Showing Tons Product Lost by Various Causes
- 73 Statement of Blazes Delays From Various Causes, All Companies
- ✓ 74 Recapitulation from Accident Reports, Showing Men Employed, No Accidents, Etc.
- ✓ 75 Supplementary Accident Report, - Loss to Company Acct Accidents
- ✓ 76 Classification of Causes of Accidents
- ✓ 77 Record of Delays from Various Causes, Division of Time
- ✓ 78 Record of Time Lost By Holidays
- ✓ 79 Record of Delays, Time Cost Repairing Damage to Machinery

79A *Summary of expenses from 1901 to 1902*

79B *Oil Statements*

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

LAND DEPARTMENT:-

MISCELLANEOUS;-

- 80 Reconciliation of tax statement
- 81 Production of Iron Ore and Pig Iron
- 82 Copies of Reports Furnished U. S. Government
- 83 *Dundee Furnace Co's. Account.*
- 84 *C.C.I.Co. Annual Report furn. Secretary of State of Michigan.*
- 85 " " " " " " " " *Ohio (Foreign Corp. Report)*

STOCK USED

1902

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Lake	47626.1669 ✓	2.516	119867.24 ✓	3.038	63.8
Salisbury	14782.1037 ✓	2.544 ✓	37611.96 ✓	.957	19.8
Foster	4797.0254	1.898	9100.86 ✓	.232	6.4
Cliffs Shaft	5442.1384 ✓	3.257 ✓	17729.99 ✓	.459	7.3
Volunteer	68.1980	2.761	190.26 ✓	.005	.1
Bedford	213.0580	2.640	562.43 ✓	.015	.3
Lake Bessemer	856.0960	3.655	3129.51 ✓	.080	1.1
Pewabic	757.1390	4.024	3048.92 ✓	.078	1.0
Tilden Silica	101.1660	1.171	119.27 ✓	.003	.2
Scrap Iron	<i>4797 .0254</i>		46.08 ✓	.001	
Wood	<i>6704 68 ✓</i>		275.72 ✓	.007	
Debit acc. years analysis of Ore			<u>2046.91</u> ✓	.052	
			<i>2368.71</i>		
	<u>74646.1954</u>		<u>193729.15</u>	<u>4.927</u>	
Credit acc. years analysis of Ore			<u>420.14</u>	<u>.011</u>	
Total	74646.1954	2.589	193309.01	4.916	100.
Limestone	4306.1300	.900	3875.17	.099	
Charcoal	3397613 Bus.	.0696	236817.33	6.022	

S T O C K U S E D

1901

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Lake	42026.1388	2.706	113736.19	2.936	57.6
Salisbury	13673.1530	2.664	36425.42	.942	18.8
Cliffs Shaft	5537.0312	3.621	20050.07	.518	07.6
Foster	3062.1316	1.751	5362.48	.138	04.2
Section 12	1134.1358	1.752	1988.12	.051	01.5
Lake Bessemer	3027.1800	3.297	11197.94	.289	04.1
Angeline #1 H.	3666.1540	4.519	16569.47	.427	05.1
Tilden Silica	802.1270	1.326	1064.52	.028	01.1
Wood for Thawing Ore			<u>207.60</u>	<u>.005</u>	
Total	72931.1554	2.833	206601.81	5.334	100
Credit acc. years analy- sis of ore		<u>.008</u>	<u>560.27</u>	<u>.014</u>	
	72931.1554	2.825	206041.54	5.320	
Limestone	3764.0650	.882	3320.81	.085	
Charcoal	3352044 Bus.	.0699	234176.47	6.044	

# Cleveland Cliffs Iron Co. Pioneer Furnace

## Comparative Statement of Pig Iron Cost Sheets for the years 1901 and 1902

	Iron Made in 1902				Iron Made in 1901			
	Labor	Supplies	Total	Cost per ton	Labor	Supplies	Total	Cost per ton
<b>General Expense</b>								
Insurance		246 00	246 00	006		245 50	245 50	006
Taxes		4461 00	4461 00	113		3719 12	3719 12	096
Analysis	737 46	145 30	882 76	022	852 66	145 20	997 86	026
Salaries and other Expenses	13659 66	3189 22	16848 88	435	12437 39	1960 20	14397 59	372
<b>Total</b>	14397 12	8044 52	22438 64	576	13290 05	6070 02	19360 07	520
<b>Maintenance</b>								
Tracks and yard	251 52	74 68	326 20	008	343 50	112 51	456 01	012
Trestles and dock	354 15	325 68	679 83	017	337 70	122 75	460 45	012
Buildings	537 58	686 64	1224 22	031	367 40	588 80	956 20	025
Machinery	563 95	527 84	1091 79	027	422 98	283 00	705 98	020
Tuyeres	96 23	545 72	641 95	016	56 47	259 68	316 15	009
Relinings and Renewals		3932 50	3932 50	100		3881 80	3881 80	100
Water Supply	27 45	12 96	40 41	001	81 78	86 62	168 40	002
Pig Iron Trucks, Coal and Ore Buggies.	449 54	78 87	528 41	016	525 31	83 47	608 78	015
Stack	31 29	90	32 19	001				
Stoves	96 23	196 81	293 04	007	69 81	1172 34	1242 15	032
Cleaning up.	49 69	278	52 47	001				
<b>Total</b>	2457 63	6385 38	8843 01	225	2204 95	6590 97	8795 92	227
<b>Operating</b>								
Machinery	2303 58	589 29	2892 97	074	2177 68	658 41	2836 09	073
Electric Light	242 66	52 56	297 12	008	268 88	86 63	355 51	009
Bottom Fillers	7673 94	81 01	7754 95	198	8527 55	126 53	8654 08	223
Top Fillers	2530 50	9 27	2539 77	065	2560 66	9 45	2570 11	066
Handling Iron.	5305 73	11 40	5317 13	135	4918 63	11 69	4930 32	129
Handling Cinder.	2812 83	271 00	3083 83	078	2971 80	207 59	3179 39	082
Weighing and Grading Iron	638 75		638 75	016	638 75		638 75	016
Founders, Keepers and Helpers.	9242 51		9242 51	235	8953 28	1000	8963 28	232
Coal Forkers	9082 62	7200	9154 62	232	8308 20	39 92	8348 12	215
Casting Tools	227 91	261 85	489 76	012	327 46	172 68	500 14	013
Sand and Clay	741 27	1080 52	1821 79	047	790 22	993 32	1783 54	046
Filtering	11 81	497 97	509 78	014	21 86	422 33	444 19	012
Wood	23 56	43 64	67 20	000	68 22	133 45	140 27	004
Cleaning Stoves. 1902 <small>Refund 7/6 poor Grading 1901.</small>	309 23	203 60	513 43	013		170 00	170 00	004
<b>Total</b>	41047 40	3176 21	44223 61	1324	40471 79	3042 00	43513 79	1124
<b>Stock Used</b>								
Ore	14 28	193294 73	193309 01	4916		206011 54	206041 54	5320
Charcoal.		236317 33	236317 33	6022		232176 47	232176 47	6044
Limestone		3875 17	3875 17	099		3325 81	3325 81	085
<b>Total.</b>	14 28	433987 23	434001 51	11037		443543 82	443543 82	11449
<b>Cost of Production</b>								
	57916 43	451590 34	509506 77	12962	55966 79	459246 81	515213 60	13300
<b>Depreciation.</b>								
Construction Account		19712 50	19712 50	500		19409 00	19409 00	500
Improvement Account.		5532 78	5532 78	140		6823 95	6823 95	176
<b>Total</b>		25245 28	25245 28	640		26232 95	26232 95	676
<b>Credits</b>								
		671 27	671 27	017		406 47	406 47	010
<b>Total.</b>		24574 01	24574 01	623		25826 48	25826 48	666
<b>Total cost on yard.</b>								
	57916 43	476164 35	534080 78	13585	55966 79	485073 29	541040 08	13966
<b>Loading and Switching 1902 1901.</b>								
Loading Cars	28789	16223 Tons	1743 39	060	946 00	500	951 00	059
Switching	28789	16223 "	209 76	012	145 19	103 41	248 60	015
<b>Total Loading Cars.</b>			1953 15	072	1091 19	108 41	1199 60	074
Loading Vessels	11537	21623 Tons	285 42	135	471 76	2438 63	2910 39	134
<b>Grand Total</b>	60155 00	477563 35	537718 35	13717	57529 74	487620 33	545150 07	14165
Construction Acct not sunk off			59007 27				78719 77	
Improvement Acct not sunk off			3259 09				693 78	
<b>Cost per ton for Labor.</b>								
1485								
<b>Summary of Cost per ton.</b>								
Cost on yard as above	13 585	13 585	13 585	Ore 525	13 966	13 966	13 966	Ore 531
Cost to load as above		072	135	Coal 863		074	104	Coal 865
<b>Total</b>	13 585	13 657	13 720	July 245	13 966	14 040	14 100	July 218
Commissions and expenses, Cleveland office	350	350	350		350	350	350	
<b>Total cost.</b>	13 935	14 007	14 070		14 316	14 390	14 450	

PIONEER FURNACE

Comparative Statement Pig Iron Cost Sheets

1901 and 1902

S T O C K U S E D

1901

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Lake	42026.1388	2.706	113736.19	3.310	64.1
Salisbury	13673.1530	2.664	36425.42	1.060	20.8
Cliffs Shaft	5537.0312	2.621	20050.07	.583	08.5
Foster	3062.1316	1.751	5362.48	.156	04.7
Section 12	1134.1358	1.752	1988.12	.058	01.7
Tilden Silica	84.1288	1.328	112.59	.003	00.2
Wood for Thawing Ore			207.60	.006	
	65519.0472	2.715	177882.47	5.176	100.
Credit acc. Years Analy- ses of Ore		.009	560.27	.016	
	65519.0472	2.706	177322.20	5.160	
Limestone	3350.0900	.882	2957.33	.086	
Charcoal	2970493 Bus.	.0698	207238.47	6.030	

70 2

S T O C K U S E D

1902

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Lake	47626.1669	2.516	119867.24	3.122	65.3
Salisbury	14782.1037	2.544	37611.96	.980	20.3
Foster	4797.0254	1.898	9100.86	.237	6.5
Cliffs Shaft	5442.1384	3.257	17729.99	.462	7.5
Volunteer	68.1980	2.761	190.26	.005	.1
Bedford	213.0580	2.640	562.43	.014	.3
Scrap Iron			46.08	.001	
Wood			275.72	.007	
Debit acc. years analy- sis of ore			<u>2046.91</u> ✓	<u>.053</u>	
	72931.0184	2.570	187431.45	4.881	
Credit acc. years analy- sis of ore		<u>.006</u>	<u>420.14</u> ✓		
<b>Total</b>	72931.0184	2.564	187011.31	4.870	100.0
Limestone	4168.1730	.900	3750.95	6.017	
Charcoal	3314027 Bus.	.0697	231052.37	.098	



**The Cleveland Cliffs Iron Co.**

**Pioneer Furnace**

**Comparative Statement of Non-Bessemer Pig Iron Cost Sheets, years 1902 and 1901.**

	Iron Made in 1902 38272 tons				Iron Made in 1901 34366 Tons			
	Labor	Supplies	Total	Cost per ton	Labor	Supplies	Total	Cost per ton
<b>General Expense</b>								
Insurance		239 17	239 17	✓ 006		218 15	218 15	006
Taxes		4393 90	4393 90	✓ 115		3447 52	3447 52	100
Analysis	715 97	142 06	858 03	✓ 022	778 96	130 12	909 08	027
Salaries and other Expenses	13255 51	3114 06	16369 57	✓ 428	11097 99	1693 99	12791 98	373
<b>Total</b>	13971 48	7889 19	21860 67	071	11876 95	5489 78	17366 73	506
<b>Maintenance</b>								
Tracks and Yard	246 02	74 40	320 42	✓ 008	329 09	101 25	430 34	012
Tools and Deck	353 14	325 07	678 21	018	320 83	111 27	432 10	013
Buildings	515 35	669 83	1185 18	✓ 031	341 65	543 70	885 35	026
Machinery	546 46	512 26	1058 72	✓ 028	331 45	247 57	579 02	017
Supplies	95 08	544 41	639 49	✓ 017	38 92	190 50	229 42	006
Relining and Renewals		3839 90	3839 90	100		3444 50	3444 50	100
Water Supply	21 82	12 45	34 27	✓ 001	73 31	72 49	145 80	004
Pig Iron trucks, Coal and on buccins	447 29	78 74	526 03	✓ 014	455 34	73 51	528 85	016
Stack								
Stoves	96 18	185 31	281 49	✓ 007	69 81	1172 34	1242 15	036
Cleaning up.	42 60	2 28	44 88	✓ 001				
<b>Total</b>	2366 94	6244 65	8611 59	225	1960 40	5957 13	7917 53	230
<b>Operating</b>								
Machinery	2243 18	582 82	2826 00	074	1924 97	606 45	2531 42	073
Electric Light	235 86	52 83	288 69	008	244 47	83 46	327 93	009
Bottom Rollers	7469 74	78 07	7547 81	197	7571 83	116 07	7687 90	224
Top Rollers	2460 40	9 09	2469 49	065	2268 14	9 45	2277 59	066
Handling Iron	5075 18	11 12	5086 30	133	4385 30	11 69	4396 99	128
Handling Cinder	2737 11	255 22	2992 33	078	2631 89	184 24	2816 13	082
Weighing and Grading Iron	621 23		621 23	016	566 04		566 04	017
Founders, Keepers and Helpers	8984 96		8984 96	235	7892 18	1000	7902 18	230
Coal Workers	8825 11	68 27	8893 38	232	7367 12	36 60	7403 72	216
Casting tools	223 95	250 99	474 94	012	294 46	159 11	453 57	013
Sand and Clay	719 22	1050 67	1769 89	046	686 00	895 89	1581 89	046
Filtering	11 81	481 75	493 56	013	12 74	377 08	389 82	011
Wood	19 58	20 26	39 84	001	6 82	133 45	140 27	004
Cleaning Stoves 1902 (Refund %3 poor grading)	309 83	203 60	513 43	014		170 00	170 00	005
<b>Total</b>	39937 16	3064 69	43001 85	1124	35851 96	2793 49	38645 45	1124
<b>Stock Used</b>								
Ore	14 28	186997 03	187011 31	✓ 4886		177322 20	177322 20	5160
Charcoal		231053 37	231053 37	✓ 6027		207238 47	207238 47	6030
Limestone		3750 95	3750 95	098		2962 33	2962 33	086
<b>Total</b>	14 28	421800 35	421814 63	1124		387523 00	387523 00	11276
<b>Cost of Production</b>								
	56289 86	438998 88	495288 74	12947	49689 31	401763 40	451452 71	13136
<b>Appreciation</b>								
Construction Account		19249 50	19249 50	✓ 502		17222 50	17222 50	500
Improvement Account		5513 64	5513 64	✓ 145		6823 95	6823 95	200
<b>Total</b>		24763 14	24763 14	647		24046 45	24046 45	700
<b>Credits</b>								
		671 27	671 27	✓ 017		406 47	406 47	012
<b>Total</b>		24091 87	24091 87	630		23639 98	23639 98	688
<b>Total Cost on yard.</b>								
	56289 86	463090 75	519380 61	13577	49689 31	425403 38	475092 69	13824
<b>Loading and Switching 1902 1901</b>								
Loading Cars 28789 tons 16223	1743 39		1743 39	✓ 060	946 00	500	951 00	059
Switching 28789 • 16223	209 76	126 22	335 98	✓ 011	145 19	103 41	248 60	015
<b>Total Loading Cars.</b>	1953 15	126 22	2079 37	✓ 071	1091 19	108 41	1199 60	074
Loading Vessels 10597 • 17314	269 80	1168 08	1437 88	✓ 136	402 32	1995 33	2397 65	138
<b>Grand Total</b>	58512 81	464285 05	522897 86	13663	51182 82	427007 12	478689 94	13929
<b>Construction acct. not sunk off</b>								
			5900 27				78719 77	
<b>Improvement acct. not sunk off</b>								
			3259 09				693 78	
<b>Cost per ton for labor</b>								
				1523				1489
<b>Summary of Cost per ton</b>								
Cost on yard as above	13 525	13 525	13 525		13 824	13 824	13 824	
Cost to load as above.		071	136 Ore 525			074	138 Ore 524	
<b>Total</b>		13 596	13 661	136 Ore 525	13 824	13 898	13 962	136 Ore 524
<b>Commissions and expenses Cleveland office</b>								
	350	350	350	May 243	350	350	350	May 218
<b>Total cost.</b>	13 875	13 946	14 011		14 174	14 248	14 312	

PIONEER FURNACE

Comparative Statement Non-Bessemer Cost Sheets

1901 and 1902

22

S T O C K U S E D

1901

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Tilden Silica	717.2222	1.326	951.93	.217	09.7
Lake Bessemer	3027.1800	3.697	11197.94	2.561	40.8
Angeline #1 Hard	<u>3666.1540</u>	<u>4.519</u>	<u>16569.47</u>	<u>3.789</u>	<u>49.5</u>
Total	7412.1082	3.874	28719.34	6.567	100
Limestone	413.1990	.879	363.48	.083	
Charcoal	381551 Bus.	.0706	26938.00	6.160	

STOCK USED

1902

Ore	Tons	Price	Amount	Cost Per Ton	Percent of Ore Used
Lake Bessemer	856.0960	3.655	3129.51	3.379	49.9
Pewabic	757.1390	4.024	3048.92	3.292	44.2
Tilden Silica	<u>101.1660</u>	<u>1.171</u>	<u>119.27</u>	<u>.129</u>	<u>05.9</u>
Total	1715.1770	3.670	6297.70	6.800	100.
Limestone	137.1810	.901	124.22	.134	
Charcoal	83586 Bus.	.0702	5764.96	6.226.	

# The Cleveland Cliffs Iron Co. Pioneer Furnace

## Comparative Statement of Bessemer Pig Iron Cost Sheets years 1902 and 1901

	Iron Made in 1902 926 tons				Iron Made in 1901 4373 tons			
	Labor	Supplies	Total	Cost per ton	Labor	Supplies	Total	Cost per ton
<b>General Expense</b>								
Insurance		6 83	6 83	007		27 35	27 35	006
Taxes		67 10	67 10	073		271 60	271 60	062
Analysis	21 49	3 24	24 73	027	73 70	15 08	88 78	020
Salaries and Other Expenses	404 15	75 16	479 31	517	1339 40	266 71	1605 61	368
<b>Total</b>	425 64	152 33	577 97	624	1413 10	580 24	1993 34	456
<b>Maintenance</b>								
Tracks and Yard	5 50	28	5 78	006	11 41	11 26	25 67	006
Trusses and Dock	1 01	61	1 62	002	16 87	11 48	28 35	006
Buildings	22 23	16 81	39 04	042	25 75	45 10	70 85	016
Machinery	17 49	15 58	33 07	036	91 53	35 43	126 96	029
Tires	1 15	1 31	2 46	003	17 55	69 18	86 73	020
Relinings and Renewals		92 60	92 60	100		437 30	437 30	100
Water Supply	2 63	51	3 14	003	8 47	14 13	22 60	005
Pig Iron Trucks, Coal and Ore buggies	2 25	13	2 38	002	69 97	9 96	79 93	018
Stack	31 29	90	32 19	035				
Stoves	05	11 50	11 55	013				
Cleaning up.	7 09	50	7 59	008				
<b>Total</b>	96 69	140 73	231 42	250	244 55	633 84	878 39	200
<b>Operating</b>								
Machinery	60 40	6 57	66 97	072	252 71	51 96	304 67	070
Electric Light	6 70	1 43	8 13	009	24 41	3 17	27 58	006
Bottom Pillars	204 20	2 94	207 14	224	955 72	10 46	966 18	222
Top Pillars	70 10	18	70 28	076	292 52		292 52	067
Handling Iron	130 55	28	130 83	141	533 33		533 33	122
Handling Cinder	75 72	15 78	91 50	099	339 91	23 35	263 26	083
Trighing and Grading Iron	17 52		17 52	019	72 71		72 71	016
Founders, Rippers and Helpers	257 55		257 55	278	1061 10		1061 10	243
Coal Forkers	257 57	3 73	261 24	282	941 08	332	944 40	216
Casting tools	3 96	10 86	14 82	016	33 00	13 57	46 57	011
Sand and Clay	22 05	29 85	51 90	056	1042 22	97 43	201 65	046
Filtering		16 22	16 22	018	9 12	45 25	54 37	012
Food	3 98	23 38	27 36	030				
Cleaning Stoves								
<b>Total</b>	1110 24	111 52	1221 76	1320	4619 83	248 57	4868 34	1114
<b>Stock Used</b>								
On		6297 70	6297 70	6800		28719 34	28719 34	6567
Charcoal		5764 96	5764 96	6226		26938 00	26938 00	6160
Limestone		124 22	124 22	134		363 48	363 48	083
<b>Total</b>		12186 88	12186 88	13160		56020 82	56020 82	12810
<b>Cost of Production</b>								
	1626 57	12591 46	14218 03	15354	6277 48	5711 83	6347 60	1458
<b>Depreciation</b>								
Construction Account		463 00	463 00	500		2186 50	2186 50	500
Improvement Account		19 14	19 14	021				
<b>Total</b>		482 14	482 14	521		2186 50	2186 50	500
<b>Credits</b>								
<b>Total</b>								
<b>Total Cost on yard</b>								
	1626 57	13073 60	14700 17	15875	6277 48	5966 91	65947 39	15080
<b>Loading and Switching</b>								
1902								
1901								
Loading Cars								
Switching								
<b>Total Loading Cars</b>								
1901								
1902								
Loading Vessels	1562	10470	12032	128	6944	44330	51274	119
<b>Grand Total</b>	164219	1317830	1482049	16005	634692	601132	6646013	15401
<b>Construction acct not sunk off</b>								
<b>Improvement acct not sunk off</b>								
<b>Cost per ton for labor</b>								
<b>Summary of Cost per ton</b>								
On yard	On Cars	On Vessel	Yield		On yard	On Cars	On Vessel	Yield
15875	15875	15875			15080	15080	15080	
Cost on yard as above					Cost on yard as above			
Cost to load as above				128 Ore 539	Cost to load as above			
<b>Total</b>	15875		16008 Coal 903		15080		15199 Coal 872	
<b>Commissions and Expenses Cleveland Office</b>								
	350		350	333	350		350	212
<b>Total Cost.</b>	16225		16353		15430		15549	

PIONEER FURNACE.

Comparative Statement Bessemer Cost Sheets

1901 vs 1902

3

# Cleveland Cliffs Iron Co.

Plant No 1.

Pioneer Furnace

Comparative Statement of Refined Alcohol cost sheets for years 1901 and 1902

	Gallons Produced year 1902 147312				Gallons produced year 1901. 143713			
	Labor	Supplies	Total	Cost per gal.	Labor	Supplies	Total	Cost per gal.
<u>General Expenses</u>								
Office Expense		32 29	32 29	000		29 52	29 52	000
Fire Insurance		1375 20	1375 20	009		1375 20	1375 20	010
Analysis	737 46	145 30	882 76	006	639 60	118 06	757 66	005
Taxes		1116 27	1116 27	008		867 28	867 28	006
Total	737 46	2669 06	3406 52	023 ✓	639 60	2090 06	3029 66	021
<u>Maintenance</u>								
Staked Stills	1076 33	1056 02	2132 35	014	588 60	692 74	1281 34	009
Condensers	272 10	1156 25	1428 35	010	68 49	58 99	127 48	001
Machinery	186 69	53 62	240 31	001	50 87	10 75	61 62	001
Bailers	440 72	1328 64	1769 36	012	291 71	239 18	530 89	003
Trussed Pulls	87 15	137 75	224 88	001	63 39	114 62	178 01	001
Smoke Mains	586 88	382 32	969 20	007	352 36	158 64	511 00	004
Buildings	348 57	220 43	568 97	004	289 60	121 57	411 14	003
Water Supply					450		450	000
Ditch								
Cleaning up.	157 15	14 02	171 17	001	16 82		16 82	000
Total	3155 54	4249 05	7404 59	050	1726 34	1396 46	3122 80	022
<u>Operating</u>								
Superintendent	750 00		750 00	005	937 50		937 50	007
Stillmen	3840 18	17 57	3857 69	025	4355 13	26 59	4381 72	030
Engineers	1522 15		1522 15	010	1409 75	3 09	1412 84	010
Firmen	1273 87		1273 87	009	1336 85	2 50	1339 35	009
Machinery	33	244 60	244 93	002	32 37	287 37	319 74	002
Bailers	363 55	93 35	456 90	003	214 87	10 68	225 55	002
Fuel	558 74	562 8 56	6187 30	042	658 19	5228 04	6086 23	042
Electric Light.	242 56	54 56	297 12	002	217 80	67 18	284 98	002
Time		4542 50	4542 50	031		4064 40	4064 40	029
Chemicals		338 84	338 84	002		259 05	259 05	002
Hose	2 09	483 19	485 28	003		40 00	40 00	000
Total	8553 47	11403 11	19956 58	137	9162 46	10188 90	19351 36	135
Cost of Production	13446 47	18421 33	30867 69	207	11528 40	13975 42	25503 82	178
<u>Depreciation</u>								
Construction Acct.		4557 60	4557 60	031		4557 60	4557 60	032
Improvement Acct.		380 00	380 00	003		2542 21	2542 21	017
Total		4937 60	4937 60	034		7099 81	7099 81	049
Overrun Supply Acct.		75 11	75 11	001		55 22	55 22	000
Total		4862 49	4862 49	033 ✓		7044 59	7044 59	049
Total Cost.	13446 47	23283 71	35730 18	240	11528 40	21020 01	32548 41	227
<u>&gt;Loading &amp; Switching</u>								
Barrels 146487 <sup>1902</sup> 143132 1/2		4473 09	4473 09	030		4443 20	4443 20	031
Loading 146487 " 143132 1/2	83 13		83 13	001	143 38		143 38	001
Switching. 146487 " 143132 1/2	922	4 97	14 19	000	14 79	11 88	26 67	000
Total.	922	4478 06	4570 41	031	158 17	4455 08	4613 25	032
Total cost on cars for year.	12538 82	27761 77	40300 59		11686 57	25475 09	37161 66	
Cost per gallon for year.				271				259
Smoke Recd. from " " " 40317 Cords 1901				274				
Yield of Alcohol per cord of wood								3 54
" Pyroligneous Acid " " "								22 1
Construction % not sunk off			13672 36 ✓				18229 96	
Improvements " " "			68840 66				380 00	

PIONEER FURNACE

Comparative Statement Refined Alcohol Cost Sheets

1901 to 1902

Plant No 1

43



# The Cleveland Cliffs Iron Co.

Plant No 2

Pioneer Furnace

Comparative Statement of Refined Alcohol cost sheets for 1901 and 1902

	Gallons Produced year 1902 104542				Gallons Produced year 1901 85877			
	Labor	Supplies	Total	Cost per gal.	Labor	Supplies	Total	Cost per gal.
<b>General Expense</b>								
Office Expense		32 26	32 26	000		52 85	52 85	000
Life Insurance		1375 20	1375 20	013		802 20	802 20	010
Analysis	737 46	145 31	882 77	009	519 17	107 39	656 56	008
Taxes		1116 27	1116 27	011		617 28	617 28	007
<b>Total</b>	737 46	2669 04	3406 50	033	519 17	1579 72	2128 89	025
<b>Maintenance</b>								
Tank and Stills	376 01	434 29	810 30	008	263 62	162 54	426 16	006
Condensers	157 2	32	1544	000	11 33	20	11 53	000
Machinery	29 99	19 15	49 14	000	19 70	85	20 55	000
Bailers	68 50	127 41	195 91	002	159 21	38 61	197 82	002
Fans and Pulleys								000
Smoke Main								000
Buildings	33 91	103 01	136 92	001	2 34	08	2 42	000
Water Supply					20 25		20 25	000
Sitab	58 75		58 75	001				
Cleaning up	13 20	60	13 80	000				
<b>Total</b>	595 48	684 78	1280 26	012	476 45	202 28	678 73	008
<b>Operating</b>								
Superintendent	750 00		750 00	007	562 50		562 50	006
Stillman	3798 33	298	3801 31	036	3113 19	25 19	3138 38	036
Engineers	924 92		924 92	009	810 92	2 50	813 42	010
Fitters	898 25		898 25	009	811 64	4 50	816 14	010
Machinery		142 61	142 61	002	9 91	119 64	129 55	001
Bailers	127 43	73 18	200 61	001	69 02	74 76	143 78	002
Fuel	496 25	14800 34	15296 59	146	442 29	13586 67	13028 96	152
Electric Light	242 56	54 56	297 12	003	194 64	58 83	253 47	003
Time		6090 38	6090 38	058	11 84	3424 50	3436 34	040
Chemicals		538 80	538 80	005		398 92	398 92	004
Hose	116	280 96	282 12	003		550 00	550 00	006
<b>Total</b>	7538 90	21988 81	29527 71	299	6025 95	17245 51	23271 46	270
<b>Cost of Production</b>	8571 84	25337 63	33909 47	324	7051 57	19027 51	26079 08	303
<b>Depreciation</b>								
Construction Acct.		5834 88	5834 88	056		3403 68	3403 68	040
Improvement Acct.		212 73	212 73	002				
<b>Total</b>		6047 61	6047 61	058		3403 68	3403 68	040
<b>Overrun, Supply, etc.</b>								
<b>Total</b>		7511	7511	001		55 22	55 22	
<b>Total Cost.</b>	8571 84	31310 13	39881 97	381	7051 57	23375 97	29427 54	343
<b>Fooding and Switching</b>								
Bamls. 1902	113353 1/2		3471 95	030		2275 20	2275 20	031
1901	73008 945							
Loading	113353 1/2	73003 "	66 05	000	66 52	60	67 12	001
Switching	113353 1/2	73003 "	685	000	415	291	706	000
<b>Total</b>	7290	31175 46	3548 36	030	7067	2278 71	2349 38	032
Total cost on case for year	8644 74	32785 59	43430 33		7122	24654 68	31776 92	
Cost per gallon for year				411				375
Smoke Recd from				115				376
Yield of Alcohol per cord of wood				808				756
Construction % not smud off			51903 34				57738 22	
Improvement " " "			319 00				000	

Record of Chemical Plant No. 1.

1902	Tyrologneous Acid					Neutralized Liquor							95% Refined Alcohol				Wood burned		Refined Alcohol per cord			Acetate of lime		
	Total yield in gallons per Month	Yield per Cord in gallons	No. of Primary Stills turned daily	Wt. in gallons of Prim. Still daily	% of 95% Alcohol in Acid	No. of Neut. Tanks turned Daily	Wt. in gallons of Neut. Liquid daily	What % of Neut. Liquid is of Brn. Liquor	No. of Mills turned Daily	Wt. in gallons of Neut. Still daily	Loss bet. Tanks in gallons Daily	What % of Neut. Liquid is of Brn. Liquor	What % of Neut. Liquid is of Brn. Liquor	Gallons calculated from Yield Monthly	Gallons Actual Monthly	Gallons Loss Monthly	Per Cent Loss	Yield in gallons Daily	No. of Cords Monthly	No. of Cords Daily	Gallons of Alcohol from results	Gallons of Alcohol from Yield	Gallons Loss	No. of Pounds Daily
Dec.	754200	229	1351	24329	1.68	7.61	13703	54.92	6.17	12668	1035	52.06	92224	12670	10882	1788	14.11	357	3290	106	3.85	331	54	4319
Jan.	824400	224	1477	26593	1.80	7.80	14051	52.83	6.58	12306	1745	46.27	87.58	14839	13246	1613	10.87	426	3672	118	4.04	360	44	4205
Feb.	779700	223	1582	28478	1.78	7.82	14335	50.33	6.46	12756	1579	44.19	88.98	14193	12867	1326	9.34	459	3564	127	3.98	361	37	4547
Mar.	829800	222	1487	26768	1.90	8.00	14400	53.79	6.61	12366	2034	46.19	85.87	15766	14019	1747	11.08	452	3746	120	4.23	376	47	4665
Apr.	779700	208	1476	26580	2.02	8.13	14640	55.07	6.76	12653	1987	47.60	86.40	16107	14863	1244	7.72	445	3834	127	4.20	387	33	5559
May	694800	229	1245	22413	1.78	7.71	13877	61.91	6.48	12125	1752	52.10	87.88	12428	11473	955	7.68	370	3024	98	4.11	379	32	5083
June	704080	217	1300	23469	1.81	9.16	16500	70.30	7.00	13090	2410	55.77	79.27	12743	11294	1349	10.58	379	3240	108	3.93	351	42	5081
July	689040	220	1403	22227	1.41	8.35	15038	67.65	7.16	13392	1646	60.25	89.05	9715	8343	1372	14.12	249	3132	101	3.10	266	44	4758
Aug.	779720	222	1437	25136	1.68	8.64	15861	61.90	7.45	13967	1594	55.56	89.75	13099	11603	1487	11.36	374	3510	113	3.73	330	43	4793
Sept.	700700	219	1350	23357	1.78	8.26	14546	62.27	7.70	13776	770	58.57	91.70	12472	11176	1296	10.39	372	3136	106	3.91	350	41	3480
Oct.	784800	220	1406	25316	1.83	6.35	16113	63.64	6.88	12738	3335	50.51	79.36	14360	12918	1442	10.03	416	3564	115	4.03	362	41	3888
Nov.	769054	220	1354	25313	1.78	7.76	14867	59.03	6.95	13336	1780	57.69	87.60	13703	12259	1444	10.56	464	3183	114	3.92	367	41	4362

67900  
 141  
 67900  
 141  
 67900  
 141  
 67900  
 141

New Primary Stills installed - Brn. Liquor sold from Neutralized Liquor on acct. of continuous running of stills  
 do do do do  
 New Kilns started - could not obtain these results  
 Three totals do not include Nov. work

The Cleveland-Cliffs Iron Co.  
PIONEER FLUORINE

Record of Chemical Plant No. 1.  
1902.

65

The Cleveland-Cliffs Iron Co.  
PIONEER FURNACE

Record of Chemical No 2

1902	Neutralized Liquor										95% Alcohol				Weed Carbonized		Refined Alcohol per Cent			Heats of Lime		Remarks
	Amount in gallons Neutralized Monthly	Amount in gals Neutralized Daily	Yield per cord in gals	No. of Tons turned Monthly	% of 95% Alcohol in Neutralized Liquor	Amount in gals Recd. at Brackets Monthly	Amount in gals Recd. at Brackets Daily	No. of Brackets turned Monthly	Loss behind Brackets Daily	What % of liquor recd. at brackets is neutralized	Gals. calculated from baby results Monthly	Gallons Actual Yield Monthly	Gallons Actual Yield Daily	Gallons Loss Monthly	Per Cent Loss	No. of Cords Monthly	No. of Cords Daily	Gallons Calculated from baby results	Gallons Actual Yield	Gallons Loss	No. of Pounds Daily	
Dec.	245100	7906	225	57	3.64	241400	7787	71	129	98.49	8921	6989	226	1932	21.64	1089	35	8.19	6.42	1.77	4572	130
Jan.	210700	6797	223	49	3.63	207400	6690	61	107	98.43	7648	6119	147	1529	19.99	943	30	8.11	6.49	1.62	3995	131
Feb.	206400	7372	231	48	3.98	204000	7285	60	87	98.78	8214	7665	244	549	6.68	894	32	9.18	8.57	.61	4395	137
Mar.	197800	6380	226	46	4.16	197200	6361	58	19	99.69	8228	7883	254	345	4.19	875	28	9.40	9.01	.39	4230	149
Apr.	206400	6880	217	48	4.37	204000	6800	60	80	98.83	9019	8692	289	317	3.51	951	32	9.48	9.14	.34	4071	128
May	219300	7074	219	51	3.90	217600	7019	64	55	99.22	8552	8272	267	280	3.27	998	32	8.56	8.29	.27	4597	143
June	258000	8600	230	60	4.01	251000	8386	74	214	97.13	10345	9923	331	422	4.08	1118	37	9.25	8.87	.38	5338	144
July	301000	9709	234	70	3.72	289000	9322	85	387	96.01	11197	10566	341	631	5.63	1286	41	8.70	8.21	.49	5278	129
Aug.	296700	9571	217	69	3.91	295800	9542	87	29	99.68	11600	10960	353	640	5.51	1367	44	8.49	8.00	.49	5566	126
Sept.	275200	9173	221	64	3.84	272000	9066	80	107	98.84	10567	10100	370	467	4.42	1246	41	8.48	8.10	.38	4741	116
Oct.	249400	8045	219	58	3.91	244800	7897	72	148	98.15	9757	9340	301	411	4.22	1135	36	8.59	8.23	.36	4225	117
Nov.	219300	7310	212	57	3.89	210800	7026	62	284	98.66	8530	8032	268	498	5.81	1035	34	8.24	7.76	.48	4412	133
	240441	7901	223	56	3.91	237966	7765	69	137	97.41	9381	8712	289	669	7.11	1045	35	8.72	8.09	.63	4618	132

Rotors leaking

The Cleveland-Cliffs Iron Co.  
PIONEER FURNACE  
Record of Chemical Plant 1<sup>st</sup> 2.

1902

76



Comparative Statement of Gray Acetate of lime  
Cost Sheets

1901<sup>2/3</sup> 1902

Plant No 1.

The Cleveland-Cliffs Iron Co.

Plant No. 2

PIONEER FURNACE.

Comparative Statement of Gray Acetate of Lime Cost Sheets for 1901 and 1902

	Production for 1902 1689311 lbs. Average per day 4693 "				Production for 1901 1301613 lbs. Average per day 4190 "				
	Labor	Supplies	Total	Cost per 100 lbs.	Labor	Supplies	Total	Cost per 100 lbs.	
<u>General Expense</u>									
Office Expense		14 43	14 43	001		15 24	15 24	001	
Analysis	123 28	23 46	146 74	009	91 97	18 25	110 22	009	
Total	123 28	37 89	161 17	010	91 97	33 49	125 46	010	
<u>Maintenance</u>									
Building		44 55	44 55	003	1 17	04	1 21	000	
Faults	70 91	16 93	87 84	005	27 81	13 18	40 99	005	
Orns	30 00	19 60	49 60	003	1 80	30	2 10	000	
Piping	2 40	29	26 9	000	1 57	11 00	12 57	001	
Boilers	7 18	41 16	48 34	003					
Pumps	18 36	36 64	55 00	003					
Machinery					53 79	38	54 17	004	
Total	128 85	159 17	288 02	017	86 14	24 90	111 04	010	
<u>Operating</u>									
Baking	778 25	16 05	794 30	047	740 84	18 09	758 93	058	
Skimming	1649 19	1 78	1650 97	097	722 61	2 50	725 11	097	
Engineers	462 13		462 13	027	404 86	2 55	407 41	031	
Flamm	1149 14		1149 14	026	405 94	3 54	409 48	032	
Fuel	243 66	733 172	7575 38	448	173 80	628 140	6455 20	497	
Electric Light	40 53	9 10	49 63	003	32 70	9 82	42 52	003	
Boilers	32 87	20 00	52 87	004					
Pumps		21 49	21 49	000					
Machinery					53 81	71 58	125 39	008	
Total	3655 77	740 014	11055 91	652	2734 56	6389 48	9124 04	700	
<u>Cost of Production</u>	3907 90	7597 20	11505 10	679	2912 67	6447 87	9360 54	720	
<u>Depreciation</u>									
New Construction Account		741 00	741 00	044		432 25	432 25	033	
Improvement Account		106 30	106 30	006					
Total		847 30	847 30	050		432 25	432 25	033	
<u>Total Cost</u>	3907 90	8444 50	12352 40	729	2912 67	6880 12	9792 79	753	
<u>Loading and Switching</u>									
Sacks	1689311	1301613 lbs.	858 16	858 16	051	4 00	813 78	817 78	063
Loading	1796957	1160667	107 75	2 75	006	77 23	1 14	78 37	006
Switching	1796957	1160667	884	538	003	626	4 53	10 78	001
String									
Total	116 59	866 29	982 88	059	87 49	819 44	906 93	070	
<u>Total Cost on Cars</u>	4024 49	9310 79	13335 28	788	3000 16	7699 56	10699 72	823	
Construction of rat sunk off			6790 15				7531 15		
Yield per cord of wood.				132				1146	



Comparative Statement of Gray Acetate of lime  
Cost Sheets

1901 <sup>and</sup> 1902

Plant No 2

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

Comparative Statement of Furnace General Expenses, Years 1902 & '01

-----o-----

	<u>1902</u>	<u>1901</u>
Manager,	1 6500.01✓	6000.00
Bookkeeper,	1 1800.00✓	1800.00
Clerk,	1 785.00✓	900.00
Extra Clerk,	5 187.50✓	350.00
Stenographer,	1 720.00✓	660.00
Chief Engineer,	17 2499.96✓	1974.99
Barn Boss,	13 600.00✓	600.00
Fire Insurance,	246.00	245.50
Taxes,	4461.00	3719.12
Analyses & Testing,	882.76	997.86
Petty Office	5 10.61✓	50.34
Stationery & Printing,	2 529.49✓	384.88
Telephones & Telegrams,	6 414.34✓	293.37
Stable Expense,	13 510.74✓	458.22
Exchange,	14 109.60✓	105.30
Freight & Express,	5 11.50✓	13.43
Traveling,	1 195.70✓	196.60
Postage,	3 175.47✓	158.70
Launch,	21 848.98✓	221.85
Entertaining	9 7.75✓	4.00
Accident,	4.30✓	5.00
Papers & Periodicals,	5 29.00✓	17.50
Livery,	5 88.30✓	28.00
Donations,	10 496.75✓	12.00
Inventory,	5 97.85✓	62.67
Watchman,	1 47.53✓	31.50
Legal,	8 79.00✓	
Political,	21 99.50✓	67.07
Revenue Tax		2.17
Total,	<u>22438.64</u>	<u>19360.07</u>

246.00  
 4461.00  
 882.76  
 -----  
 5589.76  
 6848.88

*Distribution*

THE  
CLEVELAND-CLIFFS IRON CO.

Pioneer Furnace,  
Comparative Statement

of

Furnace General Expenses

Years 1902 & 1901

	1901	1902
Salaries	10,000.00	10,000.00
Expenses	20,000.00	20,000.00
Depreciation	50,000.00	50,000.00
Repairs	10,000.00	10,000.00
Light	5,000.00	5,000.00
Water	5,000.00	5,000.00
Coal	10,000.00	10,000.00
Oil	5,000.00	5,000.00
Gas	5,000.00	5,000.00
Electricity	5,000.00	5,000.00
Telephone	5,000.00	5,000.00
Travel	5,000.00	5,000.00
Postage	5,000.00	5,000.00
Printing	5,000.00	5,000.00
Stationery	5,000.00	5,000.00
Insurance	5,000.00	5,000.00
Interest	5,000.00	5,000.00
Dividends	5,000.00	5,000.00
Profit	5,000.00	5,000.00
Total	200,000.00	200,000.00

THE CLEVELAND-CLIFFS IRON COMPANY

Pioneer Furnace

Statement showing cost of Stable Expense for year 1902

<u>Commodities, etc.</u>	<u>Total Cost</u>	<u>Cost per Horse Per Day</u>
Hay - - - - -	\$ 466.83	.1024
Oats - - - - -	521.08	.1143
Feed - - - - -	89.77	.0197
Bran - - - - -	19.54	.0043
Straw - - - - -	9.80	.0021
Repairs Wagons, Carts and Sleighs -	26.25	.0058
Repairs Harness - - - - -	70.25	.0154
Curry Combs, Brushes, Grease and Oil -	16.30	.0036
Shoeing - - - - -	33.80	.0074
Medicine - - - - -	15.85	.0035
Doctor - - - - -	18.00	.0038
<b>Total - - - - -</b>	<b>\$1287.47</b>	<b>.2823</b>

3 Horses on Cinder Carts - -	1095 days
1 Horse on Breeze Cart - -	365 "
2 Horses on Team - - - -	730 "
2 Driving Horses - - - -	730 "
2 Horses, Manager's - - - -	730 "
1 Horse, Foreman's - - - -	365 "
1 Horse on Retort Screenings -	365 "
Extra Teams for loading vessels -	106 "
1 Horse on Charcoal Tram Cars -	74 "
<b>Total - - - - -</b>	<b>4560 Days.</b>

Cleveland-Cliffs Iron Co.		Pioneer Furnace	
Statement showing cost of			
Stable Expense			
1902			
	Total Cost	Per Day	Cost Per Horse
Total	4580 Days		
1 Horse on Charcoal Farm Care	74		
Extra Teams for feeding vessels	106		
1 Horse on Refort Screenings	362		
1 Horse, Foreman's	362		
2 Horses, Manager's	720		
2 Driving Horses	720		
2 Horses on Team	720		
1 Horse on Breeze Galf	362		
3 Horses on Cinger Galf	1082 days		
Doctor	18.00	.0028	
Medicine	12.82	.0032	
Shoeing	23.80	.0074	
C. & V. Combs, Brushes, Grease and Oil	16.30	.0036	
Brushes	40.32	.0124	
Brushes, Carriage and Sleighs	56.32	.0088	
Stables	2.80	.0051	
Stables	12.24	.0042	
Stables	88.77	.0124	
Stables	251.08	.1143	
Stables	466.82	.1034	

Statement showing cost of Stable Expense for Year 1902

Pioneer Furnace

THE CLEVELAND-CLIFFS IRON COMPANY

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Sales Gladstone City Property

Lot 21, Block 79, First Addition to City of Gladstone \$ 10.00

12

reland-Cliffs Iron Co.

Pioneer Furnace

Gladstone City Property

1902

ST. BLOCK AS, First Addition to City of Gladstone \$ 10.00

City of Gladstone City Property

PIIONEER FURNACE

THE CLEVELAND-CLIFFS IRON COMPANY

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Statement of charges to rented houses and rents received during 1902.

<u>House Number</u>	<u>Repairs</u>	<u>Ins.</u>	<u>Taxes</u>	<u>Total Charges</u>	<u>Rent Received</u>	<u>Net Rent</u>
1	62.20	2.28		64.48	63.00	1.48
2	62.20	2.28		64.48	72.00	7.52
3	62.20	2.28		64.48	72.00	7.52
4	62.20	2.28		64.48	61.40	3.08
5	62.20	2.28		64.48	72.00	7.52
6	62.20	2.28		64.48	72.00	7.52
7	62.20	2.28		64.48	72.00	7.52
8	62.20	2.28		64.48	72.00	7.52
9	62.20	2.28		64.48	72.00	7.52
10	62.20	2.28		64.48	72.00	7.52
11	62.20	2.28		64.48	72.00	7.52
12	62.20	2.28		64.48	72.00	7.52
13	62.20	2.28		64.48	72.00	7.52
14	62.20	2.28		64.48	72.00	7.52
15	62.20	2.28		64.48	72.00	7.52
16	62.20	2.28		64.48	72.00	7.52
17	62.20	2.28		64.48	72.00	7.52
18	62.20	2.28		64.48	72.00	7.52
19	62.20	2.28		64.48	72.00	7.52
20	62.20	2.28		64.48	72.00	7.52
21	62.20	2.28		64.48	72.00	7.52
22	62.20	2.28		64.48	72.00	7.52
23	62.20	2.28		64.48	72.00	7.52
24	62.20	2.28		64.48	72.00	7.52
25	62.20	2.47		64.67	72.00	7.33
26	62.20	2.47		64.67	72.00	7.33
27	62.20	2.28		64.48	72.00	7.52
28	62.20	2.28		64.48	72.00	7.52
29	62.20	2.28		64.48	72.00	7.52
30	62.20	2.28		64.48	72.00	7.52
31	62.20	2.28		64.48	69.00	4.52
32	62.20	2.28		64.48	72.00	7.52
33	62.20	2.28		64.48	69.80	5.32
34	62.20	2.28		64.48	70.00	5.52
35	62.20	2.28		64.48	72.00	7.52
36	62.20	2.28		64.48	72.00	7.52
37	62.20	2.28		64.48	72.00	7.52
38	62.20	2.28		64.48	72.00	7.52
39	62.20	2.28		64.48	69.00	4.52
40	62.20	2.28		64.48	72.00	7.52
Bookkeeper's	84.52	4.84	35.11	124.47	120.00	4.47
Ch. Engr's.	100.20	4.84	65.79	170.83	120.00	50.83
	2672.72	101.26	100.90	2874.88	3090.20	215.32

NOTE:

All repairs to tenement houses were of a general nature and consisted of building new fences, repairing sidewalks, building chimneys and repainting all houses.



Balance on hand at beginning of year \$ 20,000.00  
 Add amount received from tenants 100,000.00  
 Less amount paid for repairs and other expenses 50,000.00  
 Balance on hand at end of year \$ 70,000.00

HOME:

House	Number	Area	Rate	Total
1	1	100	1.00	100.00
2	2	100	1.00	100.00
3	3	100	1.00	100.00
4	4	100	1.00	100.00
5	5	100	1.00	100.00
6	6	100	1.00	100.00
7	7	100	1.00	100.00
8	8	100	1.00	100.00
9	9	100	1.00	100.00
10	10	100	1.00	100.00
11	11	100	1.00	100.00
12	12	100	1.00	100.00
13	13	100	1.00	100.00
14	14	100	1.00	100.00
15	15	100	1.00	100.00
16	16	100	1.00	100.00
17	17	100	1.00	100.00
18	18	100	1.00	100.00
19	19	100	1.00	100.00
20	20	100	1.00	100.00
21	21	100	1.00	100.00
22	22	100	1.00	100.00
23	23	100	1.00	100.00
24	24	100	1.00	100.00
25	25	100	1.00	100.00
26	26	100	1.00	100.00
27	27	100	1.00	100.00
28	28	100	1.00	100.00
29	29	100	1.00	100.00
30	30	100	1.00	100.00
31	31	100	1.00	100.00
32	32	100	1.00	100.00
33	33	100	1.00	100.00
34	34	100	1.00	100.00
35	35	100	1.00	100.00
36	36	100	1.00	100.00
37	37	100	1.00	100.00
38	38	100	1.00	100.00
39	39	100	1.00	100.00
40	40	100	1.00	100.00
41	41	100	1.00	100.00
42	42	100	1.00	100.00
43	43	100	1.00	100.00
44	44	100	1.00	100.00
45	45	100	1.00	100.00
46	46	100	1.00	100.00
47	47	100	1.00	100.00
48	48	100	1.00	100.00
49	49	100	1.00	100.00
50	50	100	1.00	100.00
51	51	100	1.00	100.00
52	52	100	1.00	100.00
53	53	100	1.00	100.00
54	54	100	1.00	100.00
55	55	100	1.00	100.00
56	56	100	1.00	100.00
57	57	100	1.00	100.00
58	58	100	1.00	100.00
59	59	100	1.00	100.00
60	60	100	1.00	100.00
61	61	100	1.00	100.00
62	62	100	1.00	100.00
63	63	100	1.00	100.00
64	64	100	1.00	100.00
65	65	100	1.00	100.00
66	66	100	1.00	100.00
67	67	100	1.00	100.00
68	68	100	1.00	100.00
69	69	100	1.00	100.00
70	70	100	1.00	100.00
71	71	100	1.00	100.00
72	72	100	1.00	100.00
73	73	100	1.00	100.00
74	74	100	1.00	100.00
75	75	100	1.00	100.00
76	76	100	1.00	100.00
77	77	100	1.00	100.00
78	78	100	1.00	100.00
79	79	100	1.00	100.00
80	80	100	1.00	100.00
81	81	100	1.00	100.00
82	82	100	1.00	100.00
83	83	100	1.00	100.00
84	84	100	1.00	100.00
85	85	100	1.00	100.00
86	86	100	1.00	100.00
87	87	100	1.00	100.00
88	88	100	1.00	100.00
89	89	100	1.00	100.00
90	90	100	1.00	100.00
91	91	100	1.00	100.00
92	92	100	1.00	100.00
93	93	100	1.00	100.00
94	94	100	1.00	100.00
95	95	100	1.00	100.00
96	96	100	1.00	100.00
97	97	100	1.00	100.00
98	98	100	1.00	100.00
99	99	100	1.00	100.00
100	100	100	1.00	100.00

The Cleveland-Cliffs Iron Co.  
'Pioneer Furnace'  
Statement of Charges to  
Rented Houses  
and  
Rents Received during year

1902

House	Number	Area	Rate	Total
1	1	100	1.00	100.00
2	2	100	1.00	100.00
3	3	100	1.00	100.00
4	4	100	1.00	100.00
5	5	100	1.00	100.00
6	6	100	1.00	100.00
7	7	100	1.00	100.00
8	8	100	1.00	100.00
9	9	100	1.00	100.00
10	10	100	1.00	100.00
11	11	100	1.00	100.00
12	12	100	1.00	100.00
13	13	100	1.00	100.00
14	14	100	1.00	100.00
15	15	100	1.00	100.00
16	16	100	1.00	100.00
17	17	100	1.00	100.00
18	18	100	1.00	100.00
19	19	100	1.00	100.00
20	20	100	1.00	100.00
21	21	100	1.00	100.00
22	22	100	1.00	100.00
23	23	100	1.00	100.00
24	24	100	1.00	100.00
25	25	100	1.00	100.00
26	26	100	1.00	100.00
27	27	100	1.00	100.00
28	28	100	1.00	100.00
29	29	100	1.00	100.00
30	30	100	1.00	100.00
31	31	100	1.00	100.00
32	32	100	1.00	100.00
33	33	100	1.00	100.00
34	34	100	1.00	100.00
35	35	100	1.00	100.00
36	36	100	1.00	100.00
37	37	100	1.00	100.00
38	38	100	1.00	100.00
39	39	100	1.00	100.00
40	40	100	1.00	100.00
41	41	100	1.00	100.00
42	42	100	1.00	100.00
43	43	100	1.00	100.00
44	44	100	1.00	100.00
45	45	100	1.00	100.00
46	46	100	1.00	100.00
47	47	100	1.00	100.00
48	48	100	1.00	100.00
49	49	100	1.00	100.00
50	50	100	1.00	100.00
51	51	100	1.00	100.00
52	52	100	1.00	100.00
53	53	100	1.00	100.00
54	54	100	1.00	100.00
55	55	100	1.00	100.00
56	56	100	1.00	100.00
57	57	100	1.00	100.00
58	58	100	1.00	100.00
59	59	100	1.00	100.00
60	60	100	1.00	100.00
61	61	100	1.00	100.00
62	62	100	1.00	100.00
63	63	100	1.00	100.00
64	64	100	1.00	100.00
65	65	100	1.00	100.00
66	66	100	1.00	100.00
67	67	100	1.00	100.00
68	68	100	1.00	100.00
69	69	100	1.00	100.00
70	70	100	1.00	100.00
71	71	100	1.00	100.00
72	72	100	1.00	100.00
73	73	100	1.00	100.00
74	74	100	1.00	100.00
75	75	100	1.00	100.00
76	76	100	1.00	100.00
77	77	100	1.00	100.00
78	78	100	1.00	100.00
79	79	100	1.00	100.00
80	80	100	1.00	100.00
81	81	100	1.00	100.00
82	82	100	1.00	100.00
83	83	100	1.00	100.00
84	84	100	1.00	100.00
85	85	100	1.00	100.00
86	86	100	1.00	100.00
87	87	100	1.00	100.00
88	88	100	1.00	100.00
89	89	100	1.00	100.00
90	90	100	1.00	100.00
91	91	100	1.00	100.00
92	92	100	1.00	100.00
93	93	100	1.00	100.00
94	94	100	1.00	100.00
95	95	100	1.00	100.00
96	96	100	1.00	100.00
97	97	100	1.00	100.00
98	98	100	1.00	100.00
99	99	100	1.00	100.00
100	100	100	1.00	100.00

STATEMENT OF CHARGES TO RENTED HOUSES AND RENTS RECEIVED DURING YEAR  
 PIONEER FURNACE  
 THE CLEVELAND-CLIFFS IRON COMPANY

# The Cleveland-Cliffs Iron Co.

## PIONEER FURNACE.

### STATEMENT OF MILEAGE MADE BY C.C.I. CARS ON THE C.& N.W.RY. FOR FISCAL YEAR 1902

<u>Car Number</u>	<u>Total Miles One Way</u>	:	<u>Car Number</u>	<u>Total Miles One Way</u>
101	142.8	:	119	92.5
102	128.2	:	120	82.5
103	100.3	:	121	67.9
104	183.7	:	122	135.
105	91.	:	124	145.9
106	121.4	:	125	85.3
107	68.8	:	126	85.5
108	80.2	:	127	174.1
109	181.1	:	128	17.1
110	103.8	:	129	92.5
111	144.3	:	130	64.
112	137.1	:	131	126.5
113	63.4	:	132	123.2
114	140.9	:	134	47.6
115	61.8	:	136	101.3
116	135.	:	137	158.
117	106.7	:	138	63.8
118	128.3	:		
	<u>2118.8</u>			<u>1662.7</u>

MILEAGE C. C. I. CARS 1902

Total Column No.1	2118.8 Miles
" " No.2	<u>1662.7</u> "
Grand Total	3781.5 Miles

# The Cleveland-Cliffs Iron Co.

## MILEAGE C. C. I. CARS

1902

Number Car.	One Way Total Miles	MISCAL AVER 130S	Number Car.	One Way Total Miles
118	518.8	.....	138	132.8
113	158.2	.....	133	126.0
116	108.2	.....	136	101.2
112	132.0	.....	134	43.8
114	140.8	.....	135	132.8
117	93.4	.....	131	134.2
111	123.1	.....	120	94.0
110	144.2	.....	122	85.2
109	102.8	.....	125	14.1
108	187.1	.....	128	144.1
107	80.5	.....	133	82.8
106	88.8	.....	134	82.2
105	131.4	.....	132	142.8
104	81.0	.....	133	122.0
103	182.3	.....	131	94.8
102	100.2	.....	130	85.2
101	158.5	.....	119	85.2
	143.8	.....		85.2

Grand Total 2881.5 Miles  
 Total Column No. 1 518.8 Miles

STATEMENT OF MILEAGE MADE BY C.C.I. CARS ON THE C. & E.W.H.V. FOR

THE CLEVELAND-CLIFFS IRON CO.

Pioneer Furnace

List of Unpaid Vouchers

November 30th, 1902.

<u>Voucher No.</u>	<u>In Favor of</u>	<u>Amount</u>
8580	John Teppola	\$ 28.00
8585	Dan. Sullivan	28.50
8586	O. L. Mertz, Agt., American Exp. Co.	23.60
8587	Bank of D. Hammel & Son	35.60
8588	Geo. L. Burtis	1.04
8589	A. J. Bellaire	1.90
8590	H. W. Blackwell	3.33
8591	Bryan-Marsh Company	15.42
8592	H. B. Brown & Co.	34.00
8593	Buffalo Forge Company	1.14
8594	Jas. Burnette	60.23
8595	J. A. Caswell	5.00
8596	Columbia Stamp Works	3.78
8597	Swan Chelander	10.80
8598	City of Gladstone	15.21
8599	Jas. B. Clow & Sons	24.42
8600	Central Electric Company	40.70
8601	Geo. B. Carpenter & Co.	11.22
8602	Electric Appliance Company	27.49
8603	Escanaba & Gladstone Trans. Co.	24.77
8604	Chas. A. Eggers	4.00
8605	Gladstone Dock Company	18.51
8606	Gladstone Delta	1.90
8607	The Grasselli Chemical Co.	24.40
8608	Iron Cliffs Company	28.85
8609	The Lunkenheimer Company	1.86
8610	Munising Railway Co.	480.56
8611	Main & LaPine	11.00
8612	Marshall-Wells Hardware Co.	6.55
8613	W. J. Micks	18.86
8614	The M. St. P. & S. S. M. Ry. Co.	11.46
8615	T. H. Noble, Superintendent,	27.85
8616	H. Niedecken Company	13.25
8617	Nebel & Chapman	24.18
8618	G. LeRoy Parker	.50
8619	Postal Telegraph-Cable Company	38.65
8620	A. H. Powell	15.80
8621	Patek Bros.	1.77
8622	A. N. Sinclair	3.25
8623	Soo Line Telegraph Department	1.75
8624	F. Sheedlo & Bros.	19.92
8625	Jas. Strohauer & Sons	44.25
8626	Western Express Co.	2.70
8627	J. D. Whybrew	33.50
8628	Western Union Tel. Co.	3.86
8629	Westinghouse Air Brake Co.	24.65
8630	A. P. Meads	5.30
8631	E. E. McIntosh	132.80
8632	Various Men, Winters,	92.13
8633	Oluf Sorenson	23.90
8634	Victor Johnson	37.85
	Forward	\$ 1551.96

Brought Forward

\$ 1551.96

8635	Paul Jones	36.35
8636	Joe. McGlue	334.05
8637	Caron & Rough	6.85
8638	Various Men, Parsons,	27.71
8639	Joe. Caron	3.40
8640	Thos. Heikkila	5.25
8641	Oliver Raymond	10.75
8642	Various Men, Munising West	854.94
8643	Dr. R. S. Forsyth	223.00
8644	Dr. A. L. Laing	130.00
8645	Dr. J. R. Labadie	34.00
8646	Erickson & Bissell	79.80
8647	C. & N.W. Ry. Co.	270.37
8648	Thos. Valois	366.40
8649	Nadeau Bros.	145.60
8650	Chas. Seymour	9.80
8651	Mrs. Geo. W. DeLoughary	105.00
8652	Perrizo & Sons	235.20
8653	Publius Gagnon	362.60
8654	E. P. Craney & Sons	7.00
8655	Noah Seymour	128.70
8656	Krutch Bros.	214.20
8657	J. J. Flannigan	26.58
8658	The W. Bingham Company	20.39
8659	Michigan Telephone Co.	22.90
8660	Mining Journal Co., Ltd.	29.50
8661	Marshall-Wells Hardware Co.	22.75
8662	Weimer Machine Works Co.	3.00
8663	Marquette National Bank	26.45
8664	Southward Foundry & Machine Co.	4.56
8665	Various men, gravel pit	144.50
8666	A. J. Pearce	85.14
8667	Masonville Township Taxes	7209.66
8668	Inwood " "	462.46
8669	Harrison " "	83.39
8670	Garden " "	23.83
8671	Limsetone " "	315.45
8672	Mathias " "	1801.75
8673	Gladstone City Taxes	600.74
8674	Ford River Township Taxes	112.25
8675	Iron Cliffs Co. (Felch)	117.26

RECEIVED NOVEMBER 30TH 1903  
 OFFICE OF THE SUPERVISOR  
 MICHIGAN DEPARTMENT OF MINES

Total

\$16255.49

CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

List of Unpaid Vouchers

November 30th, 1902.

8946	Iron Cliffs Co. (Belton)	117.36
8947	Red River Township Taxes	118.32
8948	Cleveland City Taxes	600.74
8949	Marquette	1801.72
8950	Limpsone	212.42
8951	Gerden	32.82
8952	Harriaton	32.82
8953	Inwood	482.46
8954	Masonville Township Taxes	4502.66
8955	A. J. Perice	92.74
8956	Various men; Gravel pit	144.50
8957	Southern Foundry & Machine Co.	4.26
8958	Marquette National Bank	38.42
8959	Wagner Machine Works Co.	2.00
8960	Marshall-Wells Hardware Co.	32.72
8961	Mining Journal Co.; Ltd.	32.90
8962	Michigan Telephone Co.	32.30
8963	The W. Birmingham Company	50.22
8964	L. J. Blannigan	32.28
8965	Krupp Bros.	314.30
8966	Hess Seymour	152.70
8967	E. P. Green & Sons	7.00
8968	Republics Garment	222.90
8969	Perkins & Sons	222.80
8970	Mrs. Geo. W. DeLongchamps	102.00
8971	Chas. Seymour	8.30
8972	Magers Bros.	142.60
8973	Thos. Astor	222.40
8974	G. & H. A. Co.	230.22
8975	Ericson & Stasell	42.80
8976	Dr. J. H. Lapadie	24.00
8977	Dr. A. L. Irving	120.00
8978	Dr. R. S. Torrey	222.00
8979	Various men; Munizac West	824.24
8980	Oliver Raymond	70.72
8981	Thos. Helkitts	2.32
8982	Joe. Gerou	2.40
8983	Various men; Parsons;	27.77
8984	Gerou & Rouff	2.82
8985	Joe. McGline	224.02
8986	Paul Jones	22.22
	<b>Total</b>	<b>\$1252.42</b>

Brought Forward

\$ 1221.22

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE

SALARIES & PERQUISITES FOR YEAR 1902.

MANAGER,

Salary,			\$6500.01
Horses, (2) Feed,	<i>Telephone re.</i>		180.00
Horses, (2) Water,	<i>Launch re.</i>		6.00
Barn Boss,			600.00
	Total,		<u>\$7286.01</u>

Barn BOSS,

Salary,			\$ 600.00
House Rent, free. <i>what value</i>			
	Total,		<u>\$ 600.00</u>

YARD FOREMAN,

Salary,			\$1020.00
Horse, (1) Feed,			90.00
	Total,		<u>\$1110.00</u>

FOUNDER,

Salary,			\$1500.00
Electric Light furnished from furnace free, {			
House Rent, free. }			
	Total,		<u>\$1500.00</u>

BOOKKEEPER,  
CHIEF ENGINEER,  
CHEMIST,  
FUEL SUPERINTENDENT  
CLERK,  
STENOGRAPHER,

Use of team to and from Furnace,			\$ 180.00
----------------------------------	--	--	-----------





THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

COMPARATIVE WOOD REPORT FOR YEARS ENDING NOVEMBER 30th, 1902 and 1901.

<u>WOOD RECEIVED</u>	<u>1 9 0 2</u>		<u>1 9 0 1</u>	
	<u>Cords</u>	<u>32nds</u>	<u>Cords</u>	<u>32nds</u>
Inventory Dec. 1st, 1901 Furnace Kilns	2670		3214	
" " " 1st, 1901 " Yard	314		312	
From Parsons -	32345		46193	28
" Mathews -	21617	16	6385	16
" Jobbers	1875	08	1632	08
<b>Total Received at Furnace</b>	<b>58821</b>	<b>24</b>	<b>57658</b>	<b>20</b>
<hr/>				
<u>WOOD CONSUMED</u>				
Carbonized at Furnace Kilns	40659		40347	04
" " " Retorts	12637		10713	
" " Retort Experiment	3	24		
" " Kiln "	235	24	49	24
" " East Lake Kilns			655	24
" " St. Jacques "			690	
✓ Used at Chemical Plant No.1	311		802	20
" " Acetate " No.1	227		438	24
" " Retorts, - Fuel	100		165	✓
✓ " to Thaw Ore	178	16	157	
" at Furnace Boilers	87	08	62	
" by Locomotive	14		8	
" at Experimental Kiln, - Fuel	2		8	
" in Retort Construction			92	20
✓ Sold to Tenants	300		180	
Shortage Parsons	188	24		
✓ Loss off cars, - charged to Contractor			5	
✓ Sold Soo Power Company			300	
<b>Total Consumed</b>	<b>54944</b>		<b>54674</b>	<b>20</b>
<hr/>				
Inventory Dec. 1st, 1902 Furnace Yard -	27	24	314	
" " " 1902 " Kilns	3850		2670	
<b>TOTAL</b>	<b>58821</b>	<b>24</b>	<b>57658</b>	<b>20</b>

*The Cleveland-Cliffs Iron Co.*

*Pioneer Furnace  
Comparative Wood Report*

*Years 1902 and 1901*

	1902	1901
<b>TOTAL</b>	<b>29887 84</b>	<b>24928 50</b>
Inventories Dec. 1st, 1902	3820	2610
"          "          1901	51	314
Kilns		
Furnace Yard		
<b>Total Consumed</b>	<b>24344</b>	<b>24614 50</b>
Sold 200 Power Company		200
Loss Oil Cars, - charged to Contractor		2
Shortage Persons	158 34	150
Sold to Persons	200	35
in Refert. Construction	5	8
at Experimental Kiln, - Fuel	14	9
for Locomotive	81	67
at Furnace Boilers	158 19	121
for Low Ore	100	192
Refert., - Fuel	881	429
Accrue	211	802
Chemical Dept No. 1		820
St. Ladner	522 84	682 84
East Lake Kiln	2 84	43 84
Kiln		
Refert. Experiment		
Refert.	13621	10113
Furnace Kilns	40928	40241
<b>WOOD RECEIVED</b>		
Topple	1832 08	1925 08
Wichewa	31911 16	6289 19
Persons	28242	49132 58
Yard	514	215
1901 Furnace Kilns	2610	2814
<b>WOOD RECEIVED</b>		
<b>1902</b>	<b>1901</b>	
<b>1902</b>	<b>1901</b>	

COMPARATIVE WOOD REPORT FOR YEARS ENDING NOVEMBER 30th, 1902 and 1901.

PIONEER FURNACE

THE CLEVELAND-CLIFFS IRON COMPANY

1805  
Pioneer Expenses for Year  
Pioneer Balance  
The Cleveland-Cliffs Iron Co.

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Legal Expenses for Year 1902.

G. R. Empson as attorney in collection of bill Quinnesec Log & Lumber Co., Gladstone	\$ 18.00
G. R. Empson as attorney in collection delinquent renats Gov. Lot 3, Gladstone	5.00
G. R. Empson as attorney, Retainer to June 30th, 1901	25.00
G. R. Empson as attorney, Tax Matters (Expenses)	6.00
G. R. Empson as attorney, Retainer to Sept 30th.	25.00
G. R. Empson as attorney, Draughting deed P. I. Co.	11.00
18 Total	\$ 90.00

Veland-Cliffs Iron Co.

Pioneer Furnace

1 Expenses for Year

1902

THE VELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Total Expenses for Year 1902

00.01	\$	100.00	to balance of previous year
00.02			to balance of previous year
00.03			to balance of previous year
00.04			to balance of previous year
00.05			to balance of previous year
00.06			to balance of previous year
00.07			to balance of previous year
00.08			to balance of previous year
00.09			to balance of previous year
00.10			to balance of previous year
00.11			to balance of previous year
00.12			to balance of previous year
00.13			to balance of previous year
00.14			to balance of previous year
00.15			to balance of previous year
00.16			to balance of previous year
00.17			to balance of previous year
00.18			to balance of previous year
00.19			to balance of previous year
00.20			to balance of previous year
00.21			to balance of previous year
00.22			to balance of previous year
00.23			to balance of previous year
00.24			to balance of previous year
00.25			to balance of previous year
00.26			to balance of previous year
00.27			to balance of previous year
00.28			to balance of previous year
00.29			to balance of previous year
00.30			to balance of previous year
00.31			to balance of previous year
00.32			to balance of previous year
00.33			to balance of previous year
00.34			to balance of previous year
00.35			to balance of previous year
00.36			to balance of previous year
00.37			to balance of previous year
00.38			to balance of previous year
00.39			to balance of previous year
00.40			to balance of previous year
00.41			to balance of previous year
00.42			to balance of previous year
00.43			to balance of previous year
00.44			to balance of previous year
00.45			to balance of previous year
00.46			to balance of previous year
00.47			to balance of previous year
00.48			to balance of previous year
00.49			to balance of previous year
00.50			to balance of previous year
00.51			to balance of previous year
00.52			to balance of previous year
00.53			to balance of previous year
00.54			to balance of previous year
00.55			to balance of previous year
00.56			to balance of previous year
00.57			to balance of previous year
00.58			to balance of previous year
00.59			to balance of previous year
00.60			to balance of previous year
00.61			to balance of previous year
00.62			to balance of previous year
00.63			to balance of previous year
00.64			to balance of previous year
00.65			to balance of previous year
00.66			to balance of previous year
00.67			to balance of previous year
00.68			to balance of previous year
00.69			to balance of previous year
00.70			to balance of previous year
00.71			to balance of previous year
00.72			to balance of previous year
00.73			to balance of previous year
00.74			to balance of previous year
00.75			to balance of previous year
00.76			to balance of previous year
00.77			to balance of previous year
00.78			to balance of previous year
00.79			to balance of previous year
00.80			to balance of previous year
00.81			to balance of previous year
00.82			to balance of previous year
00.83			to balance of previous year
00.84			to balance of previous year
00.85			to balance of previous year
00.86			to balance of previous year
00.87			to balance of previous year
00.88			to balance of previous year
00.89			to balance of previous year
00.90			to balance of previous year
00.91			to balance of previous year
00.92			to balance of previous year
00.93			to balance of previous year
00.94			to balance of previous year
00.95			to balance of previous year
00.96			to balance of previous year
00.97			to balance of previous year
00.98			to balance of previous year
00.99			to balance of previous year
00.100			to balance of previous year

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Land Purchases and Options for the Year 1902

PARSONS TRACT LANDS:

Options;

Geo. Summerville	W $\frac{1}{2}$ of SW $\frac{1}{4}$ Sec. 7-41-17 80 acres at \$5.00, Option Paid,	\$ 55.00
Fred. Calnan	N $\frac{1}{2}$ of SE $\frac{1}{4}$ Sec. 18-41-17 80 acres at \$5.00, Option Paid,	20.00
Arthur Demars	S $\frac{1}{2}$ of SW $\frac{1}{4}$ Sec. 8-41-17 80 acres at \$5.00, Option Paid	10.00
Henry Lamere	N $\frac{1}{2}$ of NW $\frac{1}{4}$ Sec. 8-41-17 80 acres at \$5.00, Option Paid,	10.00
Arthur Bergeron	N $\frac{1}{2}$ of SE $\frac{1}{4}$ Sec. 5-41-17 80 acres at \$5.00, Option Paid,	50.00
James Chandais	S $\frac{1}{2}$ of NW $\frac{1}{4}$ Sec. 8-41-17 80 acres at \$5.00	<u>10.00</u>
	Total	\$ 155.00

Purchases:

Wm. Vincent	N $\frac{1}{2}$ of SW $\frac{1}{4}$ Sec. 9-41-17 80 acres at \$2.50	<u>200.00</u>
	Total	\$ 355.00

MATHEWS TRACT LAND:

Purchase:

John Nickell	NE $\frac{1}{4}$ of NE $\frac{1}{4}$ Sec. 6-43-21 40 acres at \$5.00 (Charging up balance of purchase) (price \$5.00, option paid in 1901)	\$ 195.00
--------------	---	-----------

*The Cleveland-Cliffs Iron Co.*

*Pioneer Furnace*

*Land Sales and Options*

*Year 1902*

James Chingoria  
 Albert Bergerson  
 Helen Jacobs  
 Virginia Jensen  
 Elmer Johnson  
 Geo. S. Johnson  
 Options

80 acres at \$2.00	8-41-1A	10.00
80 acres at \$2.00	Option Paid	80.00
2 1/2 of 2 1/2 Sec. 2-41-1A		
80 acres at \$2.00	Option Paid	10.00
2 1/2 of 2 1/2 Sec. 8-41-1A		
80 acres at \$2.00	Option Paid	10.00
2 1/2 of 2 1/2 Sec. 8-41-1A		
80 acres at \$2.00	Option Paid	10.00
2 1/2 of 2 1/2 Sec. 18-41-1A		
80 acres at \$2.00	Option Paid	10.00
2 1/2 of 2 1/2 Sec. 1-41-1A		
80 acres at \$2.00	Option Paid	10.00

PURCHASES PAID:

Land Purchases and Options for the Year 1902

PIONEER FURNACE

THE CLEVELAND-CLIFFS IRON COMPANY

PURCHASES:  
 John Nickel

PAID BALANCE:

(Price \$2.00, option paid 1/1301)	
(Outstanding balance of purchase)	
40 acres at \$2.00	
2 1/2 of 2 1/2 Sec. 6-43-21	\$ 192.00

Total

\$ 292.00

PAID:

80 acres at \$2.20	
2 1/2 of 2 1/2 Sec. 3-41-1A	

\$ 500.00

Total

\$ 122.00

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Detailed Statement of Shop labor for year 1902

	Pay Roll	Supplies	Total Shop Debit	Total Hours	Less hrs Rep. Tools	Net hrs. Eng'd.	Cost per hr.
<u>Machine Shop</u>							
December	479 32	12 84	492 16	2144	118	2026	.238
January	561 87	15 35	577 22	2471	14	2457	.235
February	461 61	21 21	482 82	1943	14	1929	.251
March	489 04	46 82	535 86	1956	5	1951	.274
April	548 41	39 00	585 41	2302	26	2276	.257
May	573 32	12 23	585 55	2459	12	2447	.239
June	516 22	18 06	534 28	1929	122	1807	.295
July	433 37	20 26	453 63	1661	35	1626	.279
August	545 76	13 05	558 81	2238		2238	.251
September	590 21	25 70	615 91	2605	38	2567	.240
October	688 34	38 92	727 26	3122	5	3117	.233
November	713 81	71 21	785 02	3308	6	3302	.237
Total	6601 28	332 65	6933 93	28138	395	27743	.249
<u>Smith Shop</u>							
December	130 73	5 06	135 79	646		646	.202
January	101 77	7 74	109 51	516		516	.212
February	95 15	9 46	104 61	473		473	.221
March	97 50	4 90	102 40	490	2	488	.201
April	103 34	6 64	109 98	514		514	.214
May	108 00	5 54	113 54	542		542	.210
June	111 05	6 55	117 60	662	8	654	.180
July	104 00	3 21	107 21	520		520	.206
August	103 90	3 03	106 93	522	4	518	.206
September	132 00	6 75	138 75	660		660	.210
October	184 10	14 44	198 54	935		935	.215
November	179 25	9 85	189 10	986		986	.190
Total	1450 79	83 17	1533 96	7466	14	7452	.206
<u>Carpenter Shop</u>							
December	245 00		245 00	1090	6	1084	.226
January	300 25		300 25	1284		1284	.234
February	370 09		370 09	1458		1458	.254
March	379 88		379 88	1683		1683	.226
April	473 69		473 69	2196		2196	.216
May	630 29		630 29	3103		3103	.203
June	663 59		663 59	3343		3343	.200
July	768 22		768 22	3603		3603	.213
August	936 95		936 95	4710		4710	.199
September	1359 81		1359 81	6877		6877	.197
October	1504 65		1504 65	7386		7386	.204
November	1194 85		1194 85	5699		5699	.209
Total	8827 27		8827 27	42432	6	42426	.208
Grand total	16879 34	415 82	17295 16	78036	415	77621	.223

No work done for outside parties

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Detailed Statement Shop labor  
1902

20 21



THE CLEVELAND-CLIFFS IRON CO

PIONEER FURNACE.

Year 1902

Labor Statement for month of

	No. Men	No. Men	No. Days	Earnings	Rate Per Day			No. Men	No. Men	No. Days	Earnings	Rate Per Day	
					Current Month	Last Month						Current Month	Last Month
<b>FURNACE—</b>	1901	1902			1902	1901	<b>MISCELLANEOUS—</b>	1901	1902			1902	1901
Engineers,	2	2	730	1515 60	2 07	1 95	Barn Boss,	1	1	365	600 00	1 64	1 64
Firemen,	1	1	365	657 00	1 80	1 80	Teamsters and Helpers,	2	2	696	1214 58	1 74	1 73
Founders,	2	2	730	2400 00	3 28	3 29	Blacksmith,	1	1	3701	901 40	2 43	2 39
Keepers,	2	2	736 5	1546 65	2 10	2 10	Blacksmith Helpers,	1	1	3753	569 44	1 51	1 50
Helpers,	7 1/2	8	2919 4	5294 90	1 81	1 82	Machinists,	5	4	1314 6	3354 04	2 55	2 44
Top Fillers,	4	4	1435	2550 62	1 75	1 75	Machinist Helpers,	5	6	2201 7	3472 71	1 57	1 55
Bottom Fillers,	14	13	4782 2	7931 78	1 65	1 66	Carpenters,	7	14	4259 7	8825 14	2 07	2 24
Cinder Snappers,	4 1/2	4	1483 7	2525 82	1 70	1 70	Locomotive Engineers,	1	1	372	938 00	2 52	2 36
Iron Grader,	1	1	365	638 75	1 75	1 75	Brakeman,	1	1	350	350 15	2 43	2 26
Iron Handlers,	7	6	2251 3	5166 07	2 24	1 95	Electrician,	1	1	379 2	746 12	2 10	2 00
Coal Forkers,	11	11	4079 9	7122 57	1 74	1 74	Yard Foreman,	1	1	365	1020 00	2 79	2 71
Coal Car Pushers,	2	2	727	1199 75	1 65	1 64	Laborers,	13	13	4412 7	6729 53	1 62	1 53
Sand Man,	1	1	339 9	592 13	1 48	1 75	Laboratory Boys,	2	2	658	951 00	1 85	1 82
							Experimental Work						
							Loading Iron						
							Tons,						
							Top Fillers						
							Assess						
							Putting Wood on Yard						
							Assess Helpers						
Total,	59	57	2096 1 9	39141 66	1 86	1 83	Total,	60	65	19590 2	40555 71	2 07	1 97
<b>CHEMICAL PLANT, No. 1—</b>							<b>CHEMICAL PLANT, No. 2—</b>						
Stillmen,	5	5	1660 6	3136 21	1 90	1 89	Stillmen,	4	5	1665	3169 44	1 90	1 87
Engineers,	2	2	726	1525 15	2 10	1 96	Engineers,	2	2	730	1387 08	1 90	1 89
Firemen,	2	2	738 2	1313 91	1 78	1 80	Firemen,	2	2	730	1314 00	1 80	1 80
Laborers,	2	1	510 7	853 63	1 67	1 67	Laborers,	1	1	333 6	615 16	1 84	1 83
Total,	11	10	3635 5	6850 90	1 83	1 85	Total,	9	10	3458 6	6485 68	1 87	1 85
<b>ACETATE PLANT, No. 1—</b>							<b>ACETATE PLANT, No. 2—</b>						
Rakers,	1 1/2	1	363 5	827 41	2 27	2 35	Rakers,	1	1	361 8	778 25	2 15	2 13
Skimmers,	2 1/2	3	970 1	1697 67	1 73	1 75	Skimmers,	2	2	910 6	1592 41	1 75	1 70
Total,	4	4	1333 6	2525 08	1 89	1 98	Total,	3	3	1272 4	2370 66	1 86	1 89
<b>KILNS—</b>							<b>RETORTS—</b>						
Colliers,	2	2	765 5	1463 97	1 91	1 91	Foreman,	1	1	361	750 00	2 16	2 14
Whitewashers,	2	2	732	1182 40	1 61	1 60	Fireman,	4	4	1450 5	2627 95	1 81	1 81
Packers,	12	13	3969 2	7409 49	1 86	1 89	Winch and Mudman,	1	1	360 5	612 85	1 70	1 70
Packer Foreman,	1	1	365	703 00	1 92	1 90	Wood Loaders,	5	6	2095 5	3586 77	1 70	1 70
Kiln Cleaners,	1	1	364	603 60	1 66	1 65	Retort Cleaner,	1	1	360	700	1 70	1 69
Breeze-man,	1	1	365	602 25	1 65	1 65	Fuel Man,	1	1	360	594 00	1 65	1 63
Eye-men and Steam													
Wood Loaders													
Total,	19	23	7092 4	12869 58	1 81	1 83	Total,	13	13	4631 5	8203 27	1 77	1 77
<b>PARSONS WOOD JOB—</b>							<b>MATTHEWS WOOD JOB—</b>						
Foreman and Measuring,	2	1	293 6	852 19	2 90	2 77	Foreman and Measuring,	1	1	342 5	848 06	2 47	2 55
Chopping 16179 7/8 Cords,	65	30	9047	1294 390	1 43	1 19	Chopping 27167 Cords,	69	54	16766	2173 60	1 29	1 09
Fire Protection,	3	24		4056	1 69	1 75	Fire Protection,	1	1	360	1140 1	1 68	1 63
Building				38 5	67 65	1 75	Building				1 62 52	1 69	1 70
Water Supply						1 70	"				97	1 64 52	1 69
Total,	73	31	4403 1	13904 30	1 47	1 23	Total,	72	58	17834	23823 73	1 32	1 12
<b>PARSONS PORTABLE RV.</b>							<b>MATTHEWS LOADING JOB—</b>						
Engineers,	1	1	248	622 50	2 51	2 50	Foreman,	1	1	152	335 00	2 20	1 90
Brakeman,	1	1	210 2	419 62	1 99	1 91	Teamsters,	6	9	2336 6	4433 22	1 74	1 70
Track Foreman,	1	1	242 2	477 73	1 97	2 09	Swampers,	6	8	2241 2	3797 78	1 69	1 70
Trackmen,	9	6	1115 7	1897 92	1 70	1 70	Wood Loaders,	5	3	975 4	1644 61	1 68	1 70
Fireman,	1	1	63	1076	1 71	1 72	Blacksmiths,	2	1	102	204 00	2 00	2 00
Water Supply						1 72	Road Makers,	2	1	151	259 24	1 71	1 70
Total,	13	10	1822 4	3428 53	1 88	1 83	Total,	30	23	6158 2	10673 85	1 72	1 71
<b>MUNISING WOOD JOB—Inst.</b>							<b>OFFICE PAY ROLL—</b>						
Foreman and Measuring,	1	2	438 1	934 68	2 27	2 14							
Chopping 54630 1/2 Cords,	63	76	2327 4	43704 10	1 87	1 67							
Fire Protection,	4					1 72							
Building													
Spars													
Total,	68	81	2432 9	46078 24	1 87	1 69							
<b>Munising Wood Job—West.</b>													
Foreman and Measuring,	1	1	414	697 35	2 27	1 92							
Chopping 41699 1/2 Cords,	17	69	21910	33335 30	1 56	1 67							
Total,	18	70	21924	34032 65	1 66	1 76							
<b>MISCELLANEOUS—</b>							<b>LABORERS</b>						
Barn Boss,	1	1	365	600 00	1 64	1 64							
Teamsters and Helpers,	2	2	696	1214 58	1 74	1 73							
Blacksmith,	1	1	3701	901 40	2 43	2 39							
Blacksmith Helpers,	1	1	3753	569 44	1 51	1 50							
Machinists,	5	4	1314 6	3354 04	2 55	2 44							
Machinist Helpers,	5	6	2201 7	3472 71	1 57	1 55							
Carpenters,	7	14	4259 7	8825 14	2 07	2 24							
Locomotive Engineers,	1	1	372	938 00	2 52	2 36							
Brakeman,	1	1	350	350 15	2 43	2 26							
Electrician,	1	1	379 2	746 12	2 10	2 00							
Yard Foreman,	1	1	365	1020 00	2 79	2 71							
Laborers,	13	13	4412 7	6729 53	1 62	1 53							
Laboratory Boys,	2	2	658	951 00	1 85	1 82							
Experimental Work													
Loading Iron													
Tons,													
Top Fillers													
Assess													
Putting Wood on Yard													
Assess Helpers													
Total,	60	65	19590 2	40555 71	2 07	1 97							
<b>CHEMICAL PLANT, No. 2—</b>							<b>CHEMICAL PLANT, No. 2—</b>						
Stillmen,	4	5	1665	3169 44	1 90	1 87	Stillmen,	4	5	1665	3169 44	1 90	1 87
Engineers,	2	2	730	1387 08	1 90	1 89	Engineers,	2	2	730	1387 08	1 90	1 89
Firemen,	2	2	730	1314 00	1 80	1 80	Firemen,	2	2	730	1314 00	1 80	1 80
Laborers,	1	1	333 6	615 16	1 84	1 83	Laborers,	1	1	333 6	615 16	1 84	1 83
Total,	9	10	3458 6	6485 68	1 87	1 85	Total,	9	10	3458 6	6485 68	1 87	1 85
<b>ACETATE PLANT, No. 2—</b>							<b>ACETATE PLANT, No. 2—</b>						
Rakers,	1	1	361 8	778 25	2 15	2 13	Rakers,	1	1	361 8	778 25	2 15	2 13
Skimmers,	2	2	910 6	1592 41	1 75	1 70	Skimmers,	2	2	910 6	1592 41	1 75	1 70
Total,	3	3	1272 4	2370 66	1 86	1 89	Total,	3	3	1272 4	2370 66	1 86	1 89
<b>RETORTS—</b>							<b>RETORTS—</b>						
Foreman,	1	1	361	750 00	2 16	2 14	Foreman,	1	1	361	750 00		

LABOR STATEMENT

Month of Year 1902

	No. Men	No. Days	Earnings
<b>FURNACE—</b>			
Not including office,	77	275736	5128688
Office,	7	2125	1549224
Total,	84	296986	6727912
<b>CHEMICAL PLANT, No. 1—</b>			
Not including office,	21 <sup>3</sup> / <sub>4</sub>	73576	1435765
Office,	1/2	1765	75000
Total,	22 <sup>1</sup> / <sub>4</sub>	75341	1510765
<b>CHEMICAL PLANT, No. 2—</b>			
Not including office,	15	51403	982617
Office,	1/2	1765	75000
Total,	15 <sup>1</sup> / <sub>2</sub>	53168	1057617
<b>ACETATE PLANT, No. 1—</b>			
Total (No office charged)	9 <sup>3</sup> / <sub>4</sub>	32905	615453
<b>ACETATE PLANT, No. 2—</b>			
Total (No office charged)	7 <sup>3</sup> / <sub>4</sub>	26476	484067
<b>KILNS—</b>			
Total (No office charged)	23	7483	1391158
<b>RETORTS—</b>			
Total (No office charged)	16 <sup>1</sup> / <sub>2</sub>	57224	1041030
Loading Pig Iron on Cars,			174583
<i>Pen Kilns</i>	13	27746	646893
Grand Total as per Labor Statement,	142	644576	13649478

Annual Report\_Mining\_2069\_1902\_1 of 4\_112r.tif

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Statement of Donations made during Fiscal Year 1902

Patrick Murphy, account of injury	\$ 361.75
International Labor Union of Gladstone	10.00
New Methodist Church Building, Trenary	15.00
Roman Catholic Church, Gladstone	<u>90.00</u>
Total for Year	\$ 496.75

J 20 S  
V L K K R L  
D O N A T I O N

# The Cleveland-Cliffs Iron

PIONEER FURNACE.

## D O N A T I O N

## S T A T E M E N T

1 9 0 2

THE CLEVELAND-CLIFFS IRON

PIONEER FURNACE

\$ 27.16	Gift of Mrs. J. H. ...
00.01	Gift of ...
00.01	Gift of ...
20.00	Gift of ...
\$ 47.18	Total for year.

Comparative Statement of Taxes for 1902 and 1901.

	1902			1901				1902			1901		
	Acres	Valuation	Taxes	Valuation	Taxes	Acres		Valuation	Taxes	Valuation	Taxes		
<b>City of Gladstone</b>													
City Lots and Water Lot 3		9560 00	339 52	12755 00	344 11								
Founders House		800 00	25 53	1000 00	25 16								
Managers House		3000 00	95 75	4300 00	110 47								
Charles Stanes		1100 00	35 11	1535 00	38 62								
Master Mechanics house		1080 00	65 79	1600 00	40 26								
Bar Base House		600 00	19 15	750 00	18 88								
Personal Property		623 00	19 89	780 00	19 65								
<b>Total</b>		16763 00	600 74	22720 00	597 15								
<b>Masonville Township</b>													
Turner Plant, Real		180000 00	4805 03	180000 00	3693 66								
Turner Plant Personal		65000 00	1735 11	65000 00	1333 82								
Limestone Quarry	40	100 00	2 67	100 00	2 04								
Section 2	480	2880 00	76 96	2880 00	59 15								
" 3	640	3840 00	102 62	3840 00	78 86								
" 4	640	3840 00	102 62	3840 00	78 86								
" 5	640	1600 00	42 66	3840 00	78 87								
" 6	320	1360 00	36 32	1920 00	39 43								
" 9	640	3840 00	102 62	3840 00	78 86								
" 10	640	3840 00	102 62	3840 00	78 87								
" 11	160	880 00	23 48	880 00	18 06								
" 18	320	1920 00	51 30	1920 00	39 43								
" 30	160	760 00	25 65	960 00	19 72								
<b>Total</b>		270060 00	7209 66	272860 00	5599 63								
Jord River Kilns		1600 00	45 26	1600 00	32 37								
Jord River Wood <small>see note</small>		3400 00	112 25	7140 00	208 87								
Block Mountain Kilns		1000 00	42 00	1000 00	20 36								
Block Mountain Wood													
<b>Total</b>		6000 00	229 51	9740 00	261 60								
<b>Limestone Township</b>													
Section 13	440	1100 00	52 48	680 00	39 18								
" 15	320	1120 00	53 34	960 00	55 14								
" 21	320	1120 00	53 34	960 00	55 14								
" 22	320	1120 00	53 34	980 00	56 25								
" 24	480	1680 00	80 07	960 00	55 30								
" 36	160	480 00	22 83	480 00	27 57								
<b>Total</b>		6620 00	315 45	5020 00	288 58								
<b>Mathias Township</b>													
Section 7	160	500 00	25 11	450 00	24 92								
" 18	640	2400 00	120 46	2000 00	110 74								
" 28	640	2200 00	110 40	2200 00	122 21								
" 29	320	1200 00	60 32	600 00	33 33								
" 30	160	600 00	30 11	600 00	33 33								
" 31	640	2000 00	100 43	1200 00	66 66								
" 32	640	2400 00	120 43	2400 00	133 32								
" 33	480	2200 00	110 40	1800 00	99 99								
" 34	320	1600 00	80 32	1400 00	77 77								
Personal Property <small>see note</small>		2080 00	104 38	6400 00	354 11								
<b>Total</b>		35900 00	1801 75	19050 00	1056 38								
<b>Garden Township</b>													
Section 12	160	320 00	47 6	320 00	4 06								
" 13	640	1280 00	19 07	1280 00	16 18								
<b>Total</b>		1600 00	23 83	1600 00	20 24								
<b>Harrison Township</b>													
Section 28	640	2560 00	61 69	2560 00	72 21								
" 32	520	2600 00	6 28	320 00	9 04								
" 33	640	640 00	15 42	260 00	7 34								
<b>Total</b>		3440 00	83 39	3140 00	88 59								
<b>Inwood Township</b>													
Section 2	640	2456 00	64 25	2465 00	85 23								
" 3	640	2150 00	56 25	2150 00	74 63								
" 4	640	1600 00	41 85	1600 00	55 53								
" 5	640	7600 00	41 85	1600 00	55 53								
" 7	400	1016 00	26 59	1016 00	35 31								
" 8	480	1300 00	34 02	1200 00	41 69								
" 9	480	980 00	25 11	960 00	33 32								
" 10	640	2560 00	66 96	2560 00	88 93								
" 18	640	1636 00	43 79	1636 00	56 76								
Personal Property <small>see note</small>		2400 00	62 70	11200 00	388 64								
<b>Total</b>		17698 00	462 46	26387 00	915 57								
<b>Recapitulation</b>													
City of Gladstone		16763 00	600 74	22720 00	597 15								
Masonville Township		270060 00	7209 66	272860 00	5599 63								
Outside Kilns		6000 00	229 51	9740 00	261 60								
Limestone Township		6620 00	315 45	5020 00	288 58								
Mathias Township		35900 00	1801 75	19050 00	1056 38								
Garden Township		1600 00	23 83	1600 00	20 24								
Harrison Township		3440 00	83 39	3140 00	88 59								
Inwood Township		17698 00	462 46	26387 00	915 57								
<b>Grand Total</b>		358101 00	10726 79	360517 00	8827 74								
Jord River Wood 2000 Cds. @ 72 <sup>00</sup>													
Mathias Township 25000 " @ 80 <sup>00</sup>													
" 600 " @ 145 <sup>00</sup> Farmers road													
Inwood " 500 " @ 80 <sup>00</sup>													
" " Locomotive 20000 <sup>00</sup>													
" 28100 <sup>00</sup>													
									136676 <sup>25</sup>		144668 <sup>12</sup>		

Annual Report\_Mining\_2069\_1902\_1 of 4\_114.tif

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Comparative Statement of Taxes 1902 & 1901.

21

22

# THE CLEVELAND-CLIFFS IRON CO.

## PIONEER FURNACE.

COST OF LOADING AND HAULING ~~MATHEWS~~ WOOD

Year of 1902

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

LOADED AND HAULED *12* MONTHS, *44188<sup>6</sup>* CORDS.

	Labor		Supplies		Total	Cost per Cord	
						1 Month	<i>12</i> Mos.
<b>TEAMING—</b>							
Teamsters,	8598	08	25	54	8623	62	195
Teamsters' Helpers,	2984	39			2984	39	067
Swampers,	6441	86	92	80	6534	66	148
Foreman,	550	00			550	00	012
Loading Platform, <i>Team Hire</i>			328	18	328	18	008
Total,	18574	33	446	52	19020	85	430
<b>ROADS—</b>							
Making and Maintaining,	273	69	45	81	319	50	007
Greasing Skids,							
Skid Grease,							
Total,	273	69	45	81	319	50	007
<b>BARN—</b>							
Hay,	32	51	2320	19	2352	70	053
Oats,	5	63	3290	96	3296	59	075
Feed and Bran, <i>Barn Boss</i>	51	00			51	00	001
Shoeing and Shoes,	292	40	158	24	450	64	010
Harness, Wagons, Oils, Grease,	14	97	153	28	168	25	004
Horse Medicine,	21	49	127	90	149	39	003
<i>Buildings</i>			79	04	79	04	002
<i>Moving Equipment</i>	75	15	236	30	311	45	007
Total,	493	15	6365	91	6859	06	155
<b>REPAIRS OF—</b>							
Wagons and Jumpers,	139	92	56	10	196	02	004
Sleighs,			69	60	69	60	002
Harness,			65	39	65	39	002
Total,	139	92	191	09	331	01	008
<i>Depreciation</i>			2521	19	2521	19	057
Total Cost on Cars One Month,							
"    "    "    " <i>12</i> "	19481	09	9570	52	29051	61	657
<i>Credits</i>	240	20	9	10	249	30	006
<i>Net cost on cars 12 Months</i>	19240	89	9561	42	28802	31	651

THE CLEVELAND-CLIFFS IRON CO.  
PIONEER FURNACE.

LOADING AND HAULING WOOD.

Mathew's Job. Year 1902



# THE CLEVELAND-CLIFFS IRON CO.

## PIONEER FURNACE.

COST OF OPERATING ~~PARSONS~~ PORTABLE RY. *Year*

190 *2*

WOOD HAULED Mo. *12* CORDS.  
 WOOD HAULED *12* Mos. *35570* CORDS.

	LABOR	SUPPLIES	TOTAL	COST PER CORD	
				Mo. <i>12</i>	Mos.
<b>ENGINE—</b>					
Engineers,	62250	300	62550		018
Brakemen,	40782	3570	44352		012
Fuel,		95468	95468		027
Repairs,	769	32864	33633		009
Oil and Waste,		3177	3177		001
Water Supply,	3056	3245	6301		002
<b>TOTAL,</b>	<b>106857</b>	<b>138624</b>	<b>245481</b>		<b>069</b>
<b>TRACKS—</b>					
Making and Maintaining,	187849	15090	202939		057
Track Foreman,	41773		41773		012
Team Labor,	1943	8816	10759		003
<b>TOTAL,</b>	<b>231565</b>	<b>23906</b>	<b>255471</b>		<b>072</b>
<b>GENERAL EXPENSE—</b>					
Traveling,		379	379		000
Stationery and Printing,		715	715		000
Depreciation,		71141	71141		020
<b>TOTAL,</b>		<b>72235</b>	<b>72235</b>		<b>020</b>
<b>Total Cost on Cars One Month,</b>					
“ “ “ “ <i>12</i> Months,	<i>338422</i>	<i>234765</i>	<i>573187</i>		<i>161</i>

81,648.

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

COST OF OPERATING

~~PARSONS~~ PORTABLE RAILWAY

MONTH OF

*Year*

190

*2*

THE CLEVELAND-CIFFS IRON CO.

PIONEER FURNACE.

Statement of Construction and Improvement Accounts, Month of *Year* 190*2*

	Balance <i>Nov. 30 1901</i>	Additions during <i>Year</i> 190 <i>2</i>	TOTAL	Sunk off in <i>Year</i> 190 <i>2</i>	Balance <i>Nov. 30 1902</i>
<b>Furnace</b>					
Original Construction,	78,719.77		78,719.77	19,712.50	59,007.27
Supply House,	693.78		693.78	693.78	
<i>Sub House</i>		3259.09	3259.09		3259.09
Total,	79,413.55	3259.09	82,672.64	20,406.28	62,266.36
<b>Kilns</b>					
Original Construction,	13,481.91		13,481.91	2,177.34	11,304.57
Additional 10 Kilns,	6,026.90	1,108.24	7,135.14		7,135.14
Additional 20 Kilns,		2,265.93	2,265.93		2,265.93
Total,	19,508.81	2,374.17	43,276.28	2,177.34	41,098.94
<b>Rented Houses</b>					
Original Construction,	3,197.30		3,197.30	845.14	2,352.16
Additional 5 houses,	4,244.60		4,244.60		4,244.60
Additional 5 houses,	4,657.45		4,657.45		4,657.45
Rebuilding one house,	150.00		150.00		150.00
Tenement Wells,	1,063.84		1,063.84		1,063.84
Clearing site, walks and fence,	527.30		527.30		527.30
<i>Additional 5 houses 1902</i>		5,010.64	5,010.64		5,010.64
<i>Bal. Repair etc not sunk off</i>		527.96	527.96		527.96
Total,	13,840.49	5,538.60	19,379.09	845.14	18,533.95
<b>Railroad Group</b>					
Parsons Ry., Main Spur,	248.65		248.65	248.65	
Mathews Ry., Main Spur,		3,939.96	3,939.96		3,939.96
Parsons Port. Ry. Equipment,	16,294.33	5,336.66	21,630.99	7,114.41	14,516.58
Sec. 27 Railway,	57.69		57.69	57.69	
Total,	16,600.67	9,276.62	25,877.20	10,177.55	15,699.65
<b>Chemical Plant No. 1</b>					
Original Construction,	18,229.96		18,229.96	4,557.60	13,672.36
Covering Tanks and Stills,	380.00		380.00	380.00	
Enlarging, 1902,		6,884.06	6,884.06		6,884.06
Total,	18,609.96	6,884.06	25,494.02	4,937.60	20,556.42
<b>Acetate Plant No. 1</b>					
Original Construction,	627.94		627.94	627.94	
Storage House,	728.80		728.80	728.80	
<i>Rebuilding 1902</i>		5,838.30	5,838.30		5,838.30
Total,	1,356.74	5,838.30	7,195.04	1,356.74	5,838.30
<b>Retort Plant</b>					
Original Cons.—Retorts,	5,659.67		5,659.67	3,855.14	1,804.53
" " Chemical Plant No. 2,	5,773.22		5,773.22	5,834.88	
" " Acetate Plant No. 2,	753.15		753.15	741.00	12.15
Feed Water Heater,		638.03	638.03	319.03	319.00
Total,	12,186.08	638.03	12,824.11	10,750.05	2,074.06
<b>Recapitulation</b>					
Furnace,	79,413.55	3,259.09	82,672.64	20,406.28	62,266.36
Kilns,	19,508.81	2,374.17	43,276.28	2,177.34	41,098.94
Rented Houses,	13,840.49	5,538.60	19,379.09	845.14	18,533.95
Railroad Group,	16,600.67	9,276.62	25,877.29	10,177.55	15,699.74
Chemical Plant No. 1,	18,609.96	6,884.06	25,494.02	4,937.60	20,556.42
Acetate Plant No. 1,	1,356.74	5,838.30	7,195.04	1,356.74	5,838.30
Retort Plant,	12,186.08	638.03	12,824.11	10,750.05	2,074.06
Grand Total,	271,963.30	117,158.77	388,355.07	144,900.90	243,454.17

Balance Sheet *Nov.* 190*2*, Item No. *64*  
 " " " " " " *58*  
 Part of " " " " *60*  
 " " " " " " "

GRAND TOTAL. *346,864.17*

The Cleveland-Cliffs Iron Co.  
PIONEER FURNACE.

Statement of Construction and Improvement  
Accounts

MONTH OF Year 1902

26

34

# THE CLEVELAND-CLIFFS IRON CO.

## PIONEER FURNACE.

PIG IRON STOCK REPORT FOR THE WEEK ENDING November 30th 1902

H. Niedecken Co., Mfg. Stationers, Milwaukee, 84,720.

PIG IRON GRADES	Total For Week	Previous For Month	Total For Month	Over and Short	Total from Dec. 1, 19 <u>01</u>	Transfers	In Stock Dec. 1, 19 <u>01</u>	Total	Shipped since Dec. 1, 19 <u>01</u>	Balance On Hand
A Scotch					832	8		824	824	
B Scotch					469	31		500	500	
C Scotch		25	25		584	46	59	597	580	17
No. 1 Special		106	106		1765	46	61	1872	1872	
No. 1 Foundry	45	271	316		3639	24	105	3720	3676	44
No. 2 Low	68	106	174		4467	234	39	4272	4259	13
No. 2 High	104	121	225		4939	15	147	5071	5054	17
No. 3 Low	119	418	537		6500	220	243	6963	6863	100
No. 3 High	174	230	404		4019	22	280	4321	4301	20
No. 3 Malleable	74	127	201		1170	15	180	1365	1355	10
Cylinder										" 36
No. 4 Low	99	163	262		2195	131	27	2091	2091	
No. 4 High	130	338	468		2698	106	96	2688	2663	25
No. 4 Malleable										
No. 5	133	226	359		2925	40	42	3007	2989	18
No. 6	60	271	331		2197	19	11	2189	2090	99
Spotted										
Castings										
Bessemer <sup>#5 High</sup>						19	19			
Bessemer <sup>Special</sup>					926	14		940	940	
Bessemer <sup>#4 Low</sup>						13	32	19	19	
<sup>Sp. Cylinder</sup>						250		250	250	
<i>Overrun on Yard</i>					23	23				
<i>Short Lake Erie Ports</i>	1006	2402	3408		39348		1341	40689	40326	363
					150			150	150	
	1006	2402	3408		39198			40539	40176	363
					439					
					38239					

Annual Report\_Mining\_2069\_1902\_1 of 4\_118.tif

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

PIG IRON STOCK REPORT.

For the week ending *November 30th* 1902

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE

STOCK ACCOUNTS

November 30th, 1902.

-----  
 Quantity                      Amount                      Rate  
 -----

SUPPLIES:

Furnace	-	-	-	-	-	\$ 11449.36	
Chemical	-	-	-	-	-	716.99	
Laboratory	-	-	-	-	-	112.53	
Retort	-	-	-	-	-	3627.95	
Mathews Barn	-	-	-	-	-	450.85	
Parsons Ties	-	-	-	-	-	92.63	
Mathews Railway	-	-	-	-	-	81.00	
Parsons Logs	-	-	-	-	-	1200.31	

ORE:

Tons.Lbs.

Lake	-	-	-	-	-	1844- 503	4758.55	2.564
Salisbury	-	-	-	-	-	194- 203	510.48	2.629
Cliffs Shaft	-	-	-	-	-	3420-1767	11493.88	3.400
						<u>5459- 233</u>		

EQUIPMENT:

Furnace	-	-	-	-	-		9991.32	
Mathews Barn	-	-	-	-	-		11775.27	
Munising East Barn	-	-	-	-	-		7337.80	
Munising West Barn	-	-	-	-	-		7340.80	

WOOD:

Cds. 32nds.

Furnace	-	-	-	-	-	27	24	69.56	2.511
In Kilns	-	-	-	-	-	3850		8277.50	2.150
Parsons	-	-	-	-	-	8947	28	8836.05	.987
Mathews	-	-	-	-	-	47248	04	49963.18	1.057
Section 27	-	-	-	-	-	140	24	223.42	1.590
Ford River	-	-	-	-	-	136		142.03	1.044
Munising East	-	-	-	-	-	84796	20	80729.50	.952
Munising West	-	-	-	-	-	41926	24	41412.28	.987
Along Munising Railway	-	-	-	-	-	2951	12	4126.54	1.398
						<u>190025</u>	<u>08</u>		

Charcoal                      26440 bushels                      1528.20                      .0578

Limestone                      137 Tons 1190 lbs.                      123.75                      .900

Total - -                      \$266371.73

Nov. Trial Balance 1902	Item #44	\$ 17731.62
" " " " "	" #48	16762.91
" " " " "	" #46	36445.19
" " " " "	" #50	193780.06
" " " " "	" #52	123.75
" " " " "	" #51	1528.20

Total - -                      \$ 266371.73





267

What Mel lot 1903  
about when do you now expect  
to have this furnace ready for  
blast

This blank is printed in copying ink for manufacturers who may desire to copy it in their letter books.

[STRICTLY CONFIDENTIAL.]

Please fill out this blank for your furnaces and return it as early as possible to The American Iron and Steel Association, No. 261 South Fourth Street, Philadelphia.

# PRODUCTION OF PIG IRON FOR THE YEAR ENDED DECEMBER 31, 1902.

WHOLE YEAR

Name of Furnaces, Pioneer Iron Co. - Marquette Furnaces  
Name of Owners or Lessees, Pioneer Iron Co.  
Post Office, County, and State, Cleveland, Cuyahoga, Ohio

### STACKS.

Number of completed Furnace Stacks, \_\_\_\_\_ Stacks out of blast December 31, 1902, \_\_\_\_\_  
Stacks in blast December 31, 1902, none Stacks building December 31, 1902, one  
How many WEEKS in the WHOLE YEAR 1902 were each of your furnaces in blast \_\_\_\_\_  
Number of STACKS IDLE on December 31, 1902, and date when they may be blown in \_\_\_\_\_

Number of IDLE STACKS that will NEVER AGAIN MAKE IRON none  
If you contemplate erecting any NEW BLAST FURNACES in 1903 please give the number, the size, and the date when you expect to commence work upon them 210

### FUEL USED.

Kind of Fuel used in the YEAR 1902, \_\_\_\_\_  
Please state distinctly whether you used all coke, all raw bituminous coal, coke and raw coal mixed, all anthracite, anthracite and coke mixed, charcoal and coke mixed, or charcoal.

### LIMESTONE QUARRIED—GROSS TONS.

GROSS TONS.

How many tons of LIMESTONE did you QUARRY in the WHOLE YEAR 1902? \_\_\_\_\_  
How many tons of LIMESTONE did you CONSUME in your furnaces in 1902? \_\_\_\_\_  
If you can not conveniently give exact figures of the limestone quarried and consumed a CLOSE ESTIMATE will answer.

### PIG IRON MADE—GROSS TONS.

KINDS OF PIG IRON.	GROSS TONS.
Total production of all kinds of Pig Iron in the WHOLE YEAR 1902, (excluding Spiegeleisen and Ferro-manganese, but including castings made direct from the furnace) _____ <small>(If the works changed hands during this time please estimate the quantity of pig iron produced by the previous operators.)</small>	_____
Production of FERRO-MANGANESE in the WHOLE YEAR 1902 _____	_____
Production of SPIEGELEISEN in the WHOLE YEAR 1902 _____	_____
Total production of all kinds of Pig Iron, Spiegeleisen, and Ferro-manganese _____	_____
How much of the TOTAL PRODUCTION OF PIG IRON was—	
BESSEMER PIG IRON? (0.04 to 0.10 per cent. in Phosphorus) _____	_____
LOW-PHOSPHORUS PIG IRON? (below 0.04 in Phosphorus) _____	_____
MALLEABLE BESSEMER PIG IRON? _____	_____
BASIC PIG IRON? _____	_____
FOUNDRY PIG IRON? _____	_____
FORGE PIG IRON? _____	_____
WHITE and MOTTLED and other miscellaneous grades of PIG IRON? _____	_____
CASTINGS made direct from the furnace? _____	_____

### UNSOLD STOCKS—GROSS TONS.

GROSS TONS.

Stock of Pig Iron ON HAND AND UNSOLD on December 31, 1902, both at the furnace and in the hands of your agents, and which is NOT for your own consumption \_\_\_\_\_  
Do NOT include Pig Iron on hand and SOLD or Pig Iron in STORAGE WARRANT YARDS.

### WARRANT YARD IRON—GROSS TONS.

GROSS TONS.

In ADDITION to the above how much Pig Iron WHICH YOU STILL OWNED did you have stored in the yards of the American Pig Iron Storage Warrant Company on December 31, 1902? \_\_\_\_\_

If you made no pig iron at all in 1902, and had no unsold iron on hand on December 31, please so advise us at once, as it is important that we should have this information.

Signature Pioneer Iron Co.

266

# Second Request.

Please fill out the blank and return it to us as early to-morrow as possible.

*This blank is printed in copying ink for manufacturers who may desire to copy it in their letter books.*

[STRICTLY CONFIDENTIAL.]

Please fill out this blank for your furnaces and return it as early as possible to The American Iron and Steel Association, No. 261 South Fourth Street, Philadelphia.

WHOLE YEAR.

## PRODUCTION OF PIG IRON IN 1902. FOR THE YEAR ENDED DECEMBER 31, 1902.

Name of Furnaces, Pioneer  
Name of Owners or Lessees, The Cleveland-Cliffs Iron Co.  
Post Office, County, and State, Cleveland, Cuyahoga County Ohio

### STACKS.

Number of completed Furnace Stacks, one Stacks out of blast December 31, 1902, none  
Stacks in blast December 31, 1902, one Stacks building December 31, 1902, none  
How many WEEKS in the WHOLE YEAR 1902 were each of your furnaces in blast 52  
Number of STACKS IDLE on December 31, 1902, and date when they may be blown in none  
Number of IDLE STACKS that will NEVER AGAIN MAKE IRON none  
If you contemplate erecting any NEW BLAST FURNACES in 1903 please give the number, the size, and the date when you expect to commence work upon them no

### FUEL USED.

Kind of Fuel used in the YEAR 1902, Charcoal  
Please state distinctly whether you used all coke, all raw bituminous coal, coke and raw coal mixed, all anthracite, anthracite and coke mixed, charcoal and coke mixed, or charcoal.

### LIMESTONE QUARRIED—GROSS TONS.

How many tons of LIMESTONE did you QUARRY in the WHOLE YEAR 1902? none  
How many tons of LIMESTONE did you CONSUME in your furnaces in 1902? 4,249 tons  
If you can not conveniently give exact figures of the limestone quarried and consumed a CLOSE ESTIMATE will answer.

### PIG IRON MADE—GROSS TONS.

KINDS OF PIG IRON.	GROSS TONS.
Total production of all kinds of Pig Iron in the WHOLE YEAR 1902, (excluding Spiegeleisen and Ferro-manganese, but including castings made direct from the furnace)	<u>39,064</u>
Production of FERRO-MANGANESE in the WHOLE YEAR 1902	
Production of SPIEGELEISEN in the WHOLE YEAR 1902	
Total production of all kinds of Pig Iron, Spiegeleisen, and Ferro-manganese	<u>39,064</u>
How much of the TOTAL PRODUCTION OF PIG IRON was—	
BESSEMER PIG IRON? (0.04 to 0.10 per cent. in Phosphorus) <u>Charcoal</u>	<u>926</u>
LOW-PHOSPHORUS PIG IRON? (below 0.04 in Phosphorus)	
MALLEABLE BESSEMER PIG IRON?	
BASIC PIG IRON?	
FOUNDRY PIG IRON? <u>non-Bessemer Charcoal</u>	<u>38,138</u>
FORGE PIG IRON?	
WHITE and MOTTLED and other miscellaneous grades of PIG IRON?	
CASTINGS made direct from the furnace?	

### UNSOLD STOCKS—GROSS TONS.

Stock of Pig Iron ON HAND AND UNSOLD on December 31, 1902, both at the furnace and in the hands of your agents, and which is NOT for your own consumption none  
Do NOT include Pig Iron on hand and SOLD or Pig Iron in STORAGE WARRANT YARDS.

### WARRANT YARD IRON—GROSS TONS.

In ADDITION to the above how much Pig Iron WHICH YOU STILL OWNED did you have stored in the yards of the American Pig Iron Storage Warrant Company on December 31, 1902? none

If you made no pig iron at all in 1902, and had no unsold iron on hand on December 31, please so advise us at once, as it is important that we should have this information.

Signature The Cleveland-Cliffs Iron Co.

267

About when do you now expect to have your new charcoal furnace complete and ready for blast?

# Second Request.

*This blank is printed in copying ink for manufacturers who may desire to copy it to their letter books.*

[STRICTLY CONFIDENTIAL.]

Please fill out this blank for your furnaces and return it as early as possible to The American Iron and Steel Association, No. 261 South Fourth Street, Philadelphia.

## PRODUCTION OF PIG IRON IN 1902. FOR THE YEAR ENDED DECEMBER 31, 1902.

WARRANT YARD IRON

Name of Furnaces, *Carp*  
Name of Owners or Lessees, *Pioneer Iron Co.*  
Post Office, County, and State, *Cleveland Cuyahoga County Ohio*

Number of completed Furnace STACKS, *One* Stacks out of blast December 31, 1902, *None*  
Stacks in blast December 31, 1902, *One* Stacks building December 31, 1902, *None*  
How many WEEKS in the WHOLE YEAR 1902 were each of your furnaces in blast *49 weeks*  
Number of STACKS IDLE on December 31, 1902, and date when they may be blown in *None*

Number of IDLE STACKS that will NEVER AGAIN MAKE IRON *None*  
If you contemplate erecting any NEW BLAST FURNACES in 1903 please give the number, the size, and the date when you expect to commence work upon them *No*

### FUEL USED.

Kind of Fuel used in the YEAR 1902, *Charcoal*  
Please state distinctly whether you used all coke, all raw bituminous coal, coke and raw coal mixed, all anthracite, anthracite and coke mixed, charcoal and coke mixed, or charcoal.

### LIMESTONE QUARRIED—GROSS TONS.

How many tons of LIMESTONE did you QUARRY in the WHOLE YEAR 1902? *None*  
How many tons of LIMESTONE did you CONSUME in your furnaces in 1902? *1559*  
If you can not conveniently give exact figures of the limestone quarried and consumed a CLOSE ESTIMATE will answer.

### PIG IRON MADE—GROSS TONS.

KINDS OF PIG IRON.	GROSS TONS.
Total production of all kinds of Pig Iron in the WHOLE YEAR 1902, (excluding Spiegeleisen and Ferro-manganese, but including castings made direct from the furnace). <small>(If the works changed hands during this time please estimate the quantity of pig iron produced by the previous operators.)</small>	<i>14,559</i>
Production of FERRO-MANGANESE in the WHOLE YEAR 1902	—
Production of SPIEGELEISEN in the WHOLE YEAR 1902	—
Total production of all kinds of Pig Iron, Spiegeleisen, and Ferro-manganese	<i>14,559</i>
How much of the TOTAL PRODUCTION OF PIG IRON was—	
BESSEMER PIG IRON? (0.04 to 0.10 per cent. in Phosphorus)	
LOW-PHOSPHORUS PIG IRON? (below 0.04 in Phosphorus)	
MALLEABLE BESSEMER PIG IRON?	
BASIC PIG IRON?	
FOUNDRY PIG IRON? <i>Charcoal Non Bessemer</i>	<i>14,559</i>
FORGE PIG IRON?	
WHITE and MOTTLED and other miscellaneous grades of PIG IRON?	
CASTINGS made direct from the furnace?	

### UNSOLD STOCKS—GROSS TONS.

Stock of Pig Iron ON HAND AND UNSOLD on December 31, 1902, both at the furnace and in the hands of your agents, and which is NOT for your own consumption *None*  
Do NOT include Pig Iron on hand and SOLD or Pig Iron in STORAGE WARRANT YARDS.

### WARRANT YARD IRON—GROSS TONS.

In ADDITION to the above how much Pig Iron WHICH YOU STILL OWNED did you have stored in the yards of the American Pig Iron Storage Warrant Company on December 31, 1902? *None*

If you made no pig iron at all in 1902, and had no unsold iron on hand on December 31, please so advise us at once, as it is important that we should have this information.

Signature, *Pioneer Iron Co.*

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

*Trial Balance, November 30th 1902*

<b>FURNACE GENERAL EXPENSE.</b>	
Fire Insurance	24600
Taxes	446100
Analysis and Testing	88276
Salaries	1209247
Petty Office Expenses	1061
Stationery and Printing	52949
Telephones and Telegrams	41434
Revenue Tax	
Stable Expense	51074
Exchange	10960
Freight and Express	1150
Traveling	19570
Postage	17547
Launch	84898
Entertaining	775
Accident	430
Papers and Periodicals	2900
Livery	8830
Donations	49675
Inventory	9785
Watchman	4753
Legal	7900
Political Expenses	9950
	2243864
<b>FURNACE MAINTENANCE.</b>	
Tracks and Yard	32620
Trestles and Dock	67982
Buildings	58825
Dwellings not Rented	63597
Boilers	21794
Pumps	3506
Blowing Engine	6387
Blowing Engine Condenser <i>Attoring</i>	6297
Hoist	13153
Blow Pipes <i>Cleaning up</i>	5247
Machinery	32845
Coolers	25197
Tuyeres	64195
Relinings and Renewels	393250
Water Supply	4041
Coal Buggies	35141
Ore Buggies	11796
Pig Iron Trucks	5904
Stoves	29304
<i>Stack</i>	3219
	884301
<b>FURNACE OPERATING.</b>	
Machinery	245650
Cleaning Boilers	11309
Pumps	3793
Hoist	4109
Boilers	4333
Blowing Engine	20103
Electric Light	29712
Bottom Fillers	775495
Top Fillers	253977
Handling Iron	521718
Handling Cinder	308383
Weighing and Grading Iron	63875
Founders, Keepers and Helpers	924251
Coal Forkers	915462
Casting Tools	48976
Sand and Clay	182179
Filtering	50978
Wood	6720
Cleaning Stoves	51343
Ore	19330901
Charcoal	23681733
Limestone	387517
Depreciation of New Construction	2388023
Loading Cars	174339
Switching	33598
Loading Vessels	155820
<i>Dep. of Imp.</i>	69378
	50643670
<i>Total Furnace</i>	53771835

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

*Trial Balance, November 30th 1902*

<b>CHEMICAL GENERAL EXPENSE No. 1</b>					
Office Expense	8229				
Bath House					
Fire Insurance	137520				
Analysis	88276				
Taxes	11627				
	340652				
<b>CHEMICAL MAINTENANCE No. 1</b>					
Tanks and Stills	118831				
Primary Stills	47312				
Fractional Stills	39979				
Refining Stills	5579				
Tar Stills					
Columns	1533				
Smoke Condensers	107575				
Condensers	35260				
Machinery	17247				
Engine	8225				
Boilers	176936				
Pumps	3559				
Fans and Pulleys	22488				
Smoke Mains	96920				
Buildings	56897				
Water Supply					
<i>Cleaning up</i>	17117				
	750459				
<b>CHEMICAL OPERATING No. 1</b>					
Superintendent	75000				
Stillmen	385769				
Engineers	152215				
Firemen	127387				
Machinery	24493				
Cleaning Boilers	35447				
Boilers	10243				
Fuel	618730				
Electric Light	29712				
Lime	454250				
Chemicals	33384				
Hose	48528				
Depreciation of New Construction	448249				
Barrels	447309				
Loading	8313				
Switching	1419				
<i>Dep. of Imp.</i>	38000				
<i>Total Chemical Plant No. 1</i>	2938948			4030059	
<b>ACETATE GENERAL EXPENSE No. 1</b>					
Office Expense	1437				
Analysis	14680				
Fire Insurance	1200				
	17317				
<b>ACETATE MAINTENANCE No. 1</b>					
Building	334				
Tanks	9481				
Ovens	9255				
	19070				
<b>ACETATE OPERATING No. 1</b>					
Raking	83531				
Skimming	168188				
Firing	7600				
Fuel	86554				
Electric Light	4959				
Depreciation of New Construction	62794				
Sacks	67423				
Loading	8860				
Switching	1140				
Storing	33481				
<i>Dep. of Imp.</i>	72880				
<i>Total Acetate Plant No. 1</i>	597410			633797	

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

*Trial Balance, November 30th 1902*

<b>CHEMICAL GENERAL EXPENSE No. 2</b>			
Office Expense	2226		
Bath House			
Fire Insurance	187520		
Analysis	88277		
Taxes	11627		
	340650		
<b>CHEMICAL MAINTENANCE No. 2</b>			
Tanks and Stills	66546		
Primary Stills	3447		
Fractional Stills	2636		
Refining Stills	7714		
Tar Stills	436		
Columns	251		
Smoke Condensers	1544		
Condensers			
Machinery	1884		
Engine			
Boilers	19591		
Pumps	3530		
Fans and Pulleys			
Smoke Mains			
Buildings	13692		
Water Supply			
<i>Titon</i>	5875		
<i>Clean up</i>	1380		
	128026		
<b>CHEMICAL OPERATING No. 2</b>			
Superintendent	75000		
Stillmen	380131		
Engineers	92492		
Firemen	89825		
Machinery	14261		
Cleaning Boilers	10124		
Boilers	9937		
Fuel	1529659		
Electric Light	29712		
Lime	609038		
Chemicals	53880		
Hose	28212		
Depreciation	575977		
Barrels	347196		
Loading	6605		
Switching	1036		
<i>Dep. of Imp.</i>	21273		
	3874357	4343033	
<i>Total Chemical Plant No. 2</i>			
<b>ACETATE GENERAL EXPENSE No. 2</b>			
Office Expense	1148		
Analysis	14674		
Fire Insurance	16117		
<b>ACETATE MAINTENANCE No. 2</b>			
Tanks	8784		
Ovens	4960		
Machinery			
Boilers	4834		
Pumps	5500		
<i>Piping</i>	269		
<i>Buildings</i>	4453		
	28802		
<b>ACETATE OPERATING No. 2</b>			
Raking	79430		
Skimming	165097		
Engineers	46213		
Firemen	44914		
Machinery	2149		
Cleaning Boilers	3416		
Boilers	1871		
Fuel	757538		
Electric Light	4963		
Depreciation	74100		
Sacks	85816		
Loading	11050		
Switching	1422		
Storing			
<i>Dep. of Imp.</i>	10630		
	1288609	1333528	
<i>Total Acetate Plant No. 2</i>			

The Cleveland-Cliffs Iron Co.

"Pioneer Furnace"

Side Ledger Trial Balance.

Year 1902.

~~18~~ 03

STATEMENT FIRE INSURANCE 1902:

Policy Number	Company	Time Insured	Expiration	Property Insured	Location	Amount Insured	Rate	Time	Premium Paid	Premium Accrued	Losses
		3 years	Dec.1, 1903	Manager's Residence	Gladstone	5000.00	1.50	3yrs	72.50	24.17	None
		3 "	" " "	Founder's Cottage	Furnace	1500.00	1.50	3 "	21.75	7.25	"
		3 "	" " "	Barn Boss' Cottage	Gladstone	500.00	1.50	3 "	7.25	2.41	"
		3 "	" " "	Master Mechanic's Cot.	"	1000.00	1.50	3 "	14.50	4.84	"
		3 "	" " "	Clerk's House	"	1000.00	1.50	3 "	14.50	4.84	"
		3 "	" " "	20 Double Tenements	Furnace	14000.00	2.00	3 "	274.75	91.58	"
		3 "	" " "	Office & Laboratory	"	700.00	3.00	3 "	21.00	7.00	"
		3 "	" " "	Laboratory Bldg.	"	1000.00	3.00	3 "	30.00	10.00	"
		3 "	" " "	Office Building	"	1000.00	3.00	3 "	30.00	10.00	"
		3 "	" " "	Stock Gray Acetate	"	375.00	2.00	3 "	16.88	5.62	"
		3 "	" " "	" Empty Alcohol Bbls.	"	250.00	2.00	3 "	11.25	3.75	"
		3 "	" " "	Acetate Storage House	"	175.00	2.00	3 "	7.88	2.62	"
		3 "	" " "	Stock General Supplies	"	3300.00	2.00	3 "	150.20	50.06	"
		3 "	" " "	Locomotives #1 & 2	"	4000.00	2.25	3 "	202.51	67.50	"
		3 "	" " "	Locomotive House	"	800.00	2.25	3 "	40.50	13.50	"
		3 "	" " "	Car Shops	"	200.00	2.25	3 "	10.13	3.38	"
		3 "	" " "	Furnace Barn	"	1000.00	4.00	3 "	40.00	13.33	"
				Total, See Note:		35800.00			965.60		
5390	Home	1 "	Jan.30,1903	37 Charcoal Cars	Furnace	3700.00	1.00	1 "	37.00	37.00	"
3283414	North.B.& M.	3 Mos.	Dec.13,1902	5 Double Houses	"	4500.00	2.40	1 "	27.00	27.00	"
3283415	" "	3 "	" " "	Club House	"	2200.00	2.25	1 "	13.20	13.20	"
						46200.00			1042.80		

Companies carrying following amounts on above items:

North British & Mercantile	#3269808	\$	3230.00
Manchester	2380883		3500.00
Manchester	2380879		3230.00
Magdeburg	85959		3230.00
Phoenix	90638		9690.00
Magdeburg	85957		6466.00
Hanover	623		3230.00
Manchester	2380884		3230.00
Total	-	-	\$35800.00





COMPARATIVE COST OF HAULING AND LOADING WOOD - PARSONS

AND MATHEWS TRACTS - YEAR 1902.

	MATHEWS				PARSONS			
	<u>1 Mo.</u>		<u>Year</u>		<u>1 Mo.</u>		<u>Year</u>	
	Cords	Cost	Cords	Cost	Cords	Cost	Cords	Cost
Dec.	1668	.861	1668	.861	2580 $\frac{1}{4}$	.777	2580 $\frac{1}{4}$	.777
Jan	2274 $\frac{3}{4}$	.711	3942 $\frac{3}{4}$	.774	2508 $\frac{3}{4}$	.650	5089	.714
Feb	1798 $\frac{1}{2}$	.933	5741 $\frac{1}{4}$	.824	2661 $\frac{1}{4}$	.650	7750 $\frac{1}{4}$	.692
Mar	645	1.013	6386 $\frac{1}{4}$	.843	3735 $\frac{1}{4}$	.813	11485 $\frac{1}{2}$	.731
Apr			6386 $\frac{1}{4}$	.843	4648 $\frac{3}{4}$	.655	16134 $\frac{1}{4}$	.709
May			6386 $\frac{1}{4}$	.843	4437 $\frac{1}{4}$	.761	20571 $\frac{1}{2}$	.720
June			6386 $\frac{1}{4}$	.843	4043 $\frac{1}{4}$	.684	24614 $\frac{3}{4}$	.715
July			6386 $\frac{1}{4}$	.843	4338 $\frac{1}{4}$	.727	28953	.716
Aug.	694	1.242	7080 $\frac{1}{4}$	.882	3203 $\frac{1}{4}$	.748	32156 $\frac{1}{4}$	.719
Sept	4199 $\frac{1}{4}$	.686	11279 $\frac{1}{2}$	.809			32156 $\frac{1}{4}$	.719
Oct.	5771 $\frac{1}{4}$	.755	17050 $\frac{3}{4}$	.791			32156 $\frac{1}{4}$	.719
Nov.	4566 $\frac{3}{4}$	.855	21617 $\frac{1}{2}$	.804	188 $\frac{3}{4}$ Shortage		32345	.719

The Cleveland-Cliffs Co.  
 Comp. Stmt. of Loading  
 & Hauling Cost Sheets,  
 1901 & 1902/

NO.	DESCRIPTION	QTY.	UNIT	PRICE	TOTAL	DATE
101.	HAULING	1000	TONS	1.00	1000.00	1901
102.	LOADING	1000	TONS	0.50	500.00	1901
103.	HAULING	1000	TONS	1.00	1000.00	1902
104.	LOADING	1000	TONS	0.50	500.00	1902
105.	HAULING	1000	TONS	1.00	1000.00	1901
106.	LOADING	1000	TONS	0.50	500.00	1901
107.	HAULING	1000	TONS	1.00	1000.00	1902
108.	LOADING	1000	TONS	0.50	500.00	1902
109.	HAULING	1000	TONS	1.00	1000.00	1901
110.	LOADING	1000	TONS	0.50	500.00	1901

# THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the <sup>Year</sup> Month of *19 months* 1902 \$ *309,701* 100%.

Month of	19 months 1902		1 month 1901		167.638		Monthly 1902	
	Labor		Supplies		Total		Total	
	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton
<b>GENERAL EXPENSE,</b>								
Insurance,			481.41	0.01	481.41	0.01	39.53	0.00
Engineering,	2054.82	0.07	61.82	0.00	2116.72	0.07	174.15	0.04
Analysis,	2726.52	0.09	647.42	0.02	3373.94	0.11	2770.4	0.08
Roller Fund,			260.00	0.01	260.00	0.01		
Mine Office,	8791.99	0.28	2066.86	0.07	10858.85	0.35	1194.90	0.08
<b>Total,</b>	<b>13673.37</b>	<b>0.44</b>	<b>3517.55</b>	<b>0.11</b>	<b>17090.92</b>	<b>0.55</b>	<b>2485.65</b>	<b>0.13</b>
<b>MAINTENANCE—Repairs of</b>								
Tracks and Yards,	899.00	0.02	112.31	0.01	1012.21	0.03	203.52	0.01
Hooks, Treadles and Pockets,	935.75	0.03	99.12	0.03	1934.93	0.06	152.22	0.01
Buildings,	376.12	0.01	338.73	0.01	714.84	0.02	242.65	0.01
Shop Machinery,	46.50	0.00	243.65	0.01	290.20	0.01	42.8	0.00
Bulbs,	600.27	0.02	1107.15	0.04	1707.42	0.06	183.87	0.01
Hauling Machinery,	670.30	0.02	437.48	0.02	1157.82	0.04	177.37	0.01
Compressors and Air Pipes,	444.27	0.02	178.89	0.00	623.76	0.02	159.73	0.01
Cornish and Steam Pumps,	672.11	0.03	451.43	0.01	1123.64	0.04	249.11	0.01
Top, Tram Engines and Cars,	338.81	0.01	223.29	0.01	562.10	0.02	88.42	0.00
Skips and Skip Hoists,	868.51	0.03	462.49	0.01	1131.00	0.03	623.25	0.04
Underground Tracks and Cars,	3579.49	0.12	3162.26	0.10	6741.55	0.22	2310.69	0.08
<i>Portable Machinery</i> <i>Testing Fowler's &amp; Cupless</i> <i>Fire Lows</i>							186.27	0.01
							3712	0.00
							471.00	0.03
<b>Total,</b>	<b>9232.18</b>	<b>0.30</b>	<b>7766.25</b>	<b>0.25</b>	<b>16998.43</b>	<b>0.55</b>	<b>5432.51</b>	<b>0.34</b>
<b>MINING EXPENSE,</b>								
Air Pipes,	700.95	0.02	369.00	0.01	1069.95	0.03	264.28	0.01
Compressors,	1477.42	0.05	543.02	0.18	6911.44	0.23	863.36	0.03
Hauling,	5667.54	0.18	7622.38	0.25	13289.82	0.43	3688.64	0.12
Crushing,	5913.62	0.19	2724.12	0.08	33557.74	1.07	4024.51	0.13
Shaking,	194.96	0.00	86.04	0.00	281.00	0.00	2791.69	0.09
Grinding,	2478.42	0.08	514.15	0.16	2992.61	0.09	1358.83	0.04
Breaking Ore,	12815.25	0.41	14704.28	0.47	142853.53	4.61	6326.12	0.21
Tramming,	4807.45	1.55	1394.72	0.04	4946.18	1.59	27514.27	1.69
Filling,							894.07	0.03
Fluorizing,	25285.03	0.82	14534.83	0.46	39819.86	1.28	13777.50	0.44
Mining Capital and Boxes,	11034.14	0.36			11034.14	0.36	6288.82	0.21
Dry Houses,	971.96	0.03	548.59	0.02	1527.55	0.05	588.07	0.02
Top Landing and Tramming,	727.53	0.02	315.15	0.01	782.68	0.02	246.82	0.01
Stocking Ore,	933.10	0.03	282.85	0.01	1215.95	0.04	26.50	0.00
Sorting Ore,	292.43	0.10	34.13	0.00	326.56	0.10	1694.82	0.10
<b>Total,</b>	<b>265136.96</b>	<b>8.56</b>	<b>78283.67</b>	<b>2.58</b>	<b>343620.63</b>	<b>11.09</b>	<b>140353.86</b>	<b>4.63</b>
Cost of Production, Per Ton,	287942.51	9.30	89767.47	2.89	377099.98	12.19	154806.86	4.92
<b>EXPLORATORY Test Ore</b>								
Expanding in Mine, for Test	2691.64	0.09	6195.84	0.20	8894.58	0.29	1220.70	0.04
4.5 test Recovered Ore,			675.00	0.02	675.00	0.02		
<b>Total,</b>	<b>2691.64</b>	<b>0.09</b>	<b>6870.84</b>	<b>0.22</b>	<b>9569.58</b>	<b>0.31</b>	<b>1302.71</b>	<b>0.04</b>
<b>DEPRECIATION, ETC.</b>								
Inventory,					6229.46	0.20		5847.87
Improvement, Carter					4927.24	0.16		2482.47
New Construction, New Shaft					52051.54	1.68		8725.82
Repaired Hoists					61.82	0.00		11.02
Test Hoists								1.26
<b>Total,</b>					<b>63269.06</b>	<b>2.04</b>		<b>17053.38</b>
Taxes					16147.27	0.52		17150.10
Insured Office	8262.50	0.27	3514.37	0.12	11951.87	0.39	2636.83	0.08
<b>Total Cost on Stock Ore</b>	<b>299183.70</b>	<b>9.66</b>	<b>98867.73</b>	<b>3.19</b>	<b>477251.43</b>	<b>15.41</b>	<b>156745.40</b>	<b>4.76</b>
<b>LOADING AND SHIPPING</b>								
Star Coal, 1902 116920	2502.20		873.97		3376.17	0.29	2156.17	
Star Coal, 1901 116520	84.67		25.76		110.43	0.12		2569.07
Star Coal, 1902 116520	1941.49		66.85		2008.34	0.11	2311.70	
Star Coal, 1901 116520							60.87	2377.57
Star Coal (L&S),			22.53		22.53			226.72
Shipping Expenses,								26.3
<b>Total,</b>	<b>45333.6</b>	<b>0.15</b>	<b>9841.1</b>	<b>0.03</b>	<b>55204.7</b>	<b>0.18</b>	<b>4690.96</b>	<b>0.03</b>
<b>Total Cost on Cars,</b>	<b>303627.06</b>	<b>9.81</b>	<b>99792.84</b>	<b>3.22</b>	<b>482787.69</b>	<b>15.59</b>	<b>163436.36</b>	<b>4.85</b>
Refinery,					850			850
Overhead Expenses, Cleveland Office,					150			150
<b>Total Cost,</b>					<b>2559</b>			<b>2559</b>

**REMARKS.**

The tests for 1901 was spread over both for 4 months.

Now operated by The Cleveland-Cliffs Iron Co from May 1st 1901.

**ANALYSIS OF LABOR.**

Labor as per 1901 cost, Other Charges, Total, At per labor machine, General Pay Roll, Total.

**LABOR.**

unit, unit,

*Repair to shaft*  
*7th 1901*  
 2811.00  
 3261.85  
 6741.2  
 2992.61  
 16346.5

Summary of Supplies Used During *Years 1902* 1901

THE CLEVELAND-CLIFFS IRON CO.	COST OF SUPPLIES.		COST PER TON.		
	MINE.	1902.	1901.	For 1902.	For 1901.
Product.			Per Ton.	Per Ton.	
General Supplies,		993897	696111	034	043
Iron and Steel,		668313	140769	024	009
Oil, Grease and Candles,		583004	306017	019	019
Machinery Supplies,		972251	300564	031	018
Building Material,		1110668	334686	026	020
Explosives,		1686598	777834	054	048
Mine Timber,		1530728	769971	049	047
Fuel,		4052423	2032454	121	125
Barn,		84935	44580	003	003
Sundries,		832784	164952	029	010
Total Supplies,		12518601	5567438	404	342
Miscellaneous,		1039593	1994136	034	023
Total,		13558194	7561574	438	465
<b>SUMMARY.</b>					
As per Cost Sheet,		1344408	7553260	434	465
Improvement,					
New Construction,					
Other Charges,		108786	8214	004	000
Total,		13558194	7561574	438	465

1902

Cost Sheet for the

Mine

THE CLEVELAND-CLIFFS IRON CO.

# THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the Month of *November* 190*2*

	Minc.	Month of <i>190</i>				Months, 190				Months, 190	
		Labor.		Supplies.		Total.		Tons.		Tons.	
		Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.
<b>GENERAL EX</b>											
Insurance, Engineering, Analysis, Relief Fund, Mine Office.											
<b>THE CLEVELAND-CLIFFS IRON CO.</b>											
<b>MAAS MINE.</b>											
Statement of exploring, New Shaft & New Construction to November 30, 1902.											
<b>MAINTENANC</b>											
Tracks and Yards, Docks, Trestles and Buildings, Shop Machinery, Boilers, Hoisting Machinery, Compressors and A. Cornish and Steam Top Tram Engines, Skips and Skip Road Underground Track											
		<b>Explorations &amp; Genl. Expense.</b>	<b>Labor.</b>	<b>Supplies.</b>	<b>Total.</b>	<b>To Date.</b>					
		Sinking standpipe 18 holes, Diamond Drilling, Analysis, Samples from Drilling, Rental of Machinery, Water Supply, Propn. of Central Office, Relief Fund, General Expense,		221 62	221 62	16850 13 26100 40 194 50 2147 23 322 50 900 00 122 40 2433 92					
		<b>Total, (Charged Treas. account)</b>		221 62	221 62	49071 08					
<b>OPENING MAAS MINE.</b>											
General Expense.											
		General expense, Insurance, Relief Fund, Taxes, Propn. Central Office, 13%,	281 55	3 01 73 13 14 40 6524 62 42 35	284 56 73 13 14 40 6524 62 150 00	3842 08 74 41 208 80 6524 62 1800 00					
		<b>Total,</b>	389 20	6657 51	7046 71	12449 91					
<b>PLANT.</b>											
		Temporary Buildings, Hoisting Plant, Boiler Plant, Unldg. & Teaming, Material, New Baldwin Kiln Road, Drainage, Launder & Ditch, Tools in General use, Heating "Steam" Shop Equipment, Piping to Shaft, Fire Equipment, Installing Compressor,	118 32	17 00 2 55 100 01 8 35	135 32 2 55 114 31 15 49	1476 46 3137 97 8295 24 478 45 2219 73 3071 59 460 75 1833 74 755 32 1993 26 526 85 77 00					
		<b>Total,</b>	139 76	127 91	267 67	24326 36					
<b>NEW NO.1 SHAFT.</b>											
		Sinking to Ledge, Hoisting & Top Landing, Pumping & Cleaning Launder, Piping in Shaft, New Derrick, Setting Derrick, Rock trestle, Wire rope, Sheaves & Pulley stds. Timbering, (X) Ladders & Guides, Tram cars, New Skip Road, Depreciation Inventory,	1270 04 348 38 518 95 144 00 151 65	125 33 121 46 2899 10 29 81 17 62 2109 12	1395 37 469 84 3418 05 173 81 169 27 2109 12	15434 82 4816 00 22725 26 3063 32 266 62 837 57 994 58 432 32 9664 50 118 50 60 86 299 51 267 82					
		<b>Total,</b>	2433 02	1352 02	3785 04	58981 68					
		<b>Total Opening Maas Mine,</b>	2961 98	8137 44	11099 42	95757 95					
(X) Credit for timber not used. Carried over on Inventory.											

	Current Mo.	Mos.	Mos.	Mos.	Mos.	Mos.	Mos.	Mos.	Mos.	Mos.
New Construction, Improvement, Total										

REMARKS.	ANALYSIS OF LABOR.
	Labor as per Cost Sheet, Other Charges,
	As per Labor Statement, General Pay Roll, Total,

Summary of Supplies Used During 190

THE CLEVELAND-CLIFFS IRON CO.	COST OF SUPPLIES.		COST PER TON.		
	MINE.	Month.	Year.	For	For
	Product.			Mo.	Year.
General Supplies,					
Iron and Steel,					
Oil, Grease and Candles,					
Machinery Supplies,					
Building Material,					
Explosives,					
Mine Timber,					
Fuel,					
Barn,					
Sundries,					
Total Supplies,					
Miscellaneous,			36		
Total,					
<b>SUMMARY.</b>					
As per Cost Sheet,					
Improvement,					
New Construction,					
Other Charges,					
Total,					

Cost Sheet for the Month of December 1902  
 Mine. Prax





Summary of Supplies Used During 1902

THE CLEVELAND-CLIFFS IRON CO.	COST OF SUPPLIES.			COST PER TON.	
	MINE.	Month.	Year.	For	For
	Product.			Mo.	Year.
General Supplies,					
Iron and Steel,					
Oil, Grease and Candles,					
Machinery Supplies,					
Building Material,					
Explosives,					
Mine Timber,					
Fuel,					
Barn,					
Sundries,					
Total Supplies,					
Miscellaneous,			37	5	
Total,					
<b>SUMMARY.</b>					
As per Cost Sheet,					
Improvement,					
New Construction,					
Other Charges,					
Total,					

THE CLEVELAND-CLIFFS IRON CO.  
 Cost Sheet for the Month of  
 December 1902

# THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the Month of *November* 190*2*

<i>Swanzy Expl. Mfca.</i>	Month of _____, 190__				Tons.				Months, 190__			
	Labor.		Supplies.		Total.		Tons.		Amount.		Cost Per Ton.	
	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.

**GENERAL**  
Insurance,  
Engineering  
Analysis,  
Relief Fund,  
Mine Office,

**MAINTENANCE**  
Tracks and  
Docks, Trest  
Buildings,  
Shop Machin  
Boilers,  
Hoisting Ma  
Compressors  
Cornish and  
Top Tram E  
Skips and Sk  
Underground

**MINING**  
Air Pipes,  
Compressors  
Hoisting,  
Pumping,  
Sinking,  
Drifting,  
Breaking Or  
Tramming,  
Filling,  
Timbering,  
Mining Capt  
Dry House,  
Top Landing  
Stocking Ore  
Sorting Ore,

Cost of Prod  
Per Cent,  
**EXPLORATION**  
Exploring in

**DEPRECIATION**  
Inventory,  
Improvement  
New Constru

Taxes,  
Central Office  
Total Co  
**LOADING**  
Steam Shovel,  
By Hand,  
At Pocket,  
Scales (L.R. Bed),  
Shipping Ex  
Total Co

Royalty,  
Comm'n and E  
Total Co

**ACCOUNTS NOT SHOWN**

## THE CLEVELAND CLIFFS IRON COMPANY

Swanzy Explorations Drilling Cost to November 30th, 1902.

<u>GENERAL ITEMS OF EXPENSE</u>			Month	To Date
Freight, Express & Teaming			71.67	555.82
Coal Used During Month			500.00	1257.12
Carbon			530.46	3965.30
Supplies			80.93	465.02
<b>Total Supplies for Drilling</b>			<u>1183.06</u>	<u>6243.26</u>

### COST ON DIFFERENT OPTIONS FOR LABOR & SUPPLIES

	Feet For Mo.	Feet To Date	Cost For Month		Cost To Date		Cost Per Foot Month	Cost Per Ft To Date
Escanaba Riv. L.&.I.Co.	222	1353	357	50	2525	54		
C. & N. W. Ry. Co.	217	1551	494	99	1915	52		
I Stephenson Co.	308	1233	381	62	1676	63		
<b>Total Labor</b>			1234	11	6117	69	1 65	1 48
<b>Total Supplies as above</b>			1183	06	6243	26	1 58	1 51
<b>Total Drilling Cost</b>	747	4137	2417	17	12360	95	3 23	2 99
Equipment, Pipe Tools etc			528	54	2053	87	71	49
Rent of Drills			126	00	770	00	17	19
<b>Total</b>			3071	71	15184	82	4 11	3 67
General Expense, Analysis etc			25	52	686	23	03	17
<b>Grand Total</b>			3097	23	15871	05	4 14	3 84
No Feet Stand Pipe Sunk	328	939						
Number Feet Drilling	419	3198						
<b>Total</b>	747	4137						

Cost per Foot for Carbon 1 27 1 24

<u>SUMMARY</u>		
Total Cost for Drilling		3097.23
Cost for Test-pitting		15871.05
New Dia Drill Equipment		853.66
Boarding House		1054.44
Total Swanzy Exploration	1143.03	1874.61
Cost of Procuring Stephenson Option	4240.26	19658.76
<b>Grand Total</b>		<u>19748.76</u>
Amount as per Balance Sheet Nov. 30th		19477.72
Amount Charged Treasurer in April		271.04
		<u>19748.76</u>

*Thought me paid  
was for me of the option*

	Amount		Per Ton		Feet	Cost	Per Ft.	Per Ft.	Cost	Per Ft.	Cost
New Construction, Improvement,					Current Mo.						
					Mos.						
					Mos.						
<b>Total</b>											

**REMARKS.**

**ANALYSIS OF LABOR.**

Labor as per Cost Sheet,  
Other Charges,

As per Labor Statement,  
General Pay Roll,  
Total,

Summary of Supplies Used During 190

THE CLEVELAND-CLIFFS IRON CO.	COST OF SUPPLIES.		COST PER TON.		
	MINE.	Month.	Year.	For	For
	Product.			Mo.	Year.
General Supplies,					
Iron and Steel,					
Oil, Grease and Candles,					
Machinery Supplies,					
Building Material,					
Explosives,					
Mine Timber,					
Fuel,					
Barn,					
Sundries,					
Total Supplies,					
Miscellaneous,			38		
Total,					
<b>SUMMARY.</b>					
As per Cost Sheet,					
Improvement,					
New Construction,					
Other Charges,					
Total,					

Copy Sheet for the Month of  
*January*  
 Keokuk, 1902.  
 THE CLEVELAND-CLIFFS IRON CO.