

AGENT'S ANNUAL REPORTS AND
STATISTICS
YEAR 1899.

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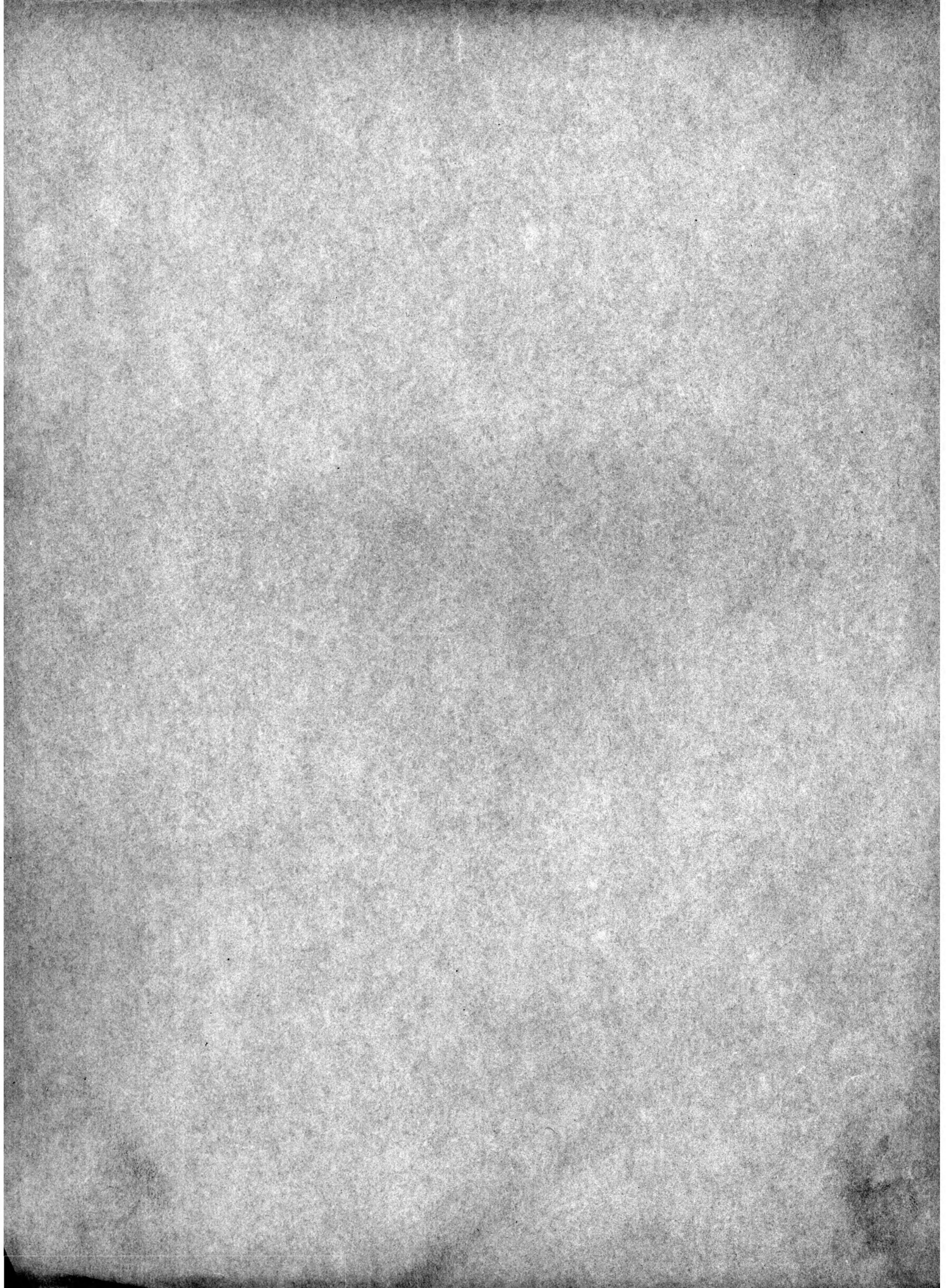
ANNUAL REPORTS AND STATISTICS

DEPARTMENT OPERATIONS

YEAR ENDING NOV. 30, 1899

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0	<i>See</i> <i>Mine Dept</i>	<i>Misc. Data</i>	<i>Cleveland-Cliff Stone</i>	0	✓
1	Mine Department	Agent's Annual Report	Cleveland Iron Mining Company	1	✓
2	"	"	Miscellaneous Data " " " "	2	✓
3	"	"	Agent's Annual Report Iron Cliffs Company	3	✓
4	"	"	Miscellaneous Data " " "	4	✓
5	Furnace Department	Manager's Annual Report	Cleveland-Cliffs Iron Company	5	✓
6	Inventory	Presque Isle Transportation Company		6	✓
7	Annual Report	Lake Superior & Ishpeming Railway Company to			
		Commissioner of Railroads		7	✓



The Cleveland-Cliffs Iron Co.
Index, Miscellaneous Data, 1899

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3	" Acetate " "
4	" Charcoal " "
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S T O C K U S E D .

1898.

O R E.	T O N S.	P R I C E.	A M O U N T.	C O S T P E R T O N.	P E R C E N T O F O R E U S E D.
Lake	19944. 1788	1.427	28475.84	.734	28.
Foster	7415. 504	1.378	10222.70	.263	10.1
Salisbury	7929. 1694.	1.630	12920.70	.333	10.8
Cliffs Shaft	4227. 1470	1.968	8369.66	.216	5.9
Lake Bessemer	2798. 193	2.293	6418.15	.166	3.8
Genoa	1171. 1461	1.337	1567.36	.040	1.6
Genoa Premium			79.62	.002	
Salisbury No. 3	7922. 1870	1.221	9675.53	.249	10.8
Star Ludington	10072.1110	1.792	18057.95	.465	13.9
South Angeline	10015. 900	1.469	14717.96	.379	13.8
Pewabic	938.1100	3.689	3462.03	.089	1.3
	-----	- - - -	-----	-----	-----
Total:-	72436. 890	1.573	113967.55	2.936	100
Limestone	3826.2150	.685	2621.70	.0675	
Charcoal	3281692 Bu.	.0519	170529.26	4.394	

STOCK USED.

1899.

O R E.	T O N S.	P R I C E.	A M O U N T.	C O S T P E R T O N.	P E R C E N T O F O R E U S E D.
Lake	20685.1861	1.495	30935.21	.992	35.4
Cliffs Shaft	5131. 43	1.873	9614.40	.308	8.7
Salisbury No. 3	1107. 380	1.184	1311.24	.042	1.9
Salisbury	11351. 30	1.645	18672.49	.598	19.5
Section 21	10994.2040	1.666	18323.15	.587	18.9
Lerida	5009.2070	1.991	9975.58	.320	8.6
Foster	3874.1736	1.437	5569.42	.170	6.7
Genoa	163.1276	1.328	217.32	.007	0.3
	-----	---	-----	----	-----
Total:-	58318. 476	1.622	94613.81	3.033	100
Limestone	3795. 304	.721	2737.98	.088	
Charcoal	2714420 Bu.	.0528	143390.61	4.597	

The Cleveland Cleft Iron Company
Promissory

Comparative Statement of Pig Iron Cook Shirts for Years 1899-1898.

	Tons Produced 1899 - 31193				Tons Produced 1898 - 38809					
	Labor	Supplies	Total	Per Ton 1899	Labor	Supplies	Total	Per Ton 1898		
<u>General Expenses</u>										
Insurance		241 00	241 00	008		252 00	252 00	006		
Taxes		3528 77	3528 77	113		2896 81	2896 81	075		
Analysis	1486 86	514 61	2001 47	064	1964 30	839 98	2804 28	072		
Salaries & other Expenses	10498 88	2240 85	12739 73	408	8912 26	2113 47	11025 73	285		
Total	11985 74	6525 23	18510 97	593	10876 56	6102 26	16978 82	438		
<u>Maintenance</u>										
Trails & yard	319 69	46 88	4366 57	012	264 88	35 05	299 93	008		
Trestles & Dock	236 20	36 36	4272 66	009	109 18	214	111 32	003		
Buildings	477 08	331 60	4808 68	026	174 87	320 92	495 79	013		
Machinery	521 07	278 11	4799 18	025	274 73	165 89	440 62	011		
Tugs	103 56	274 49	4378 05	012	85 61	216 87	302 48	008		
Repairs & Renewals		3118 00	43118 00	100		3880 90	3880 90	100		
Water Supply	64 62	103 19	4167 81	005	36 19	109	37 28			
Iron Trucks Coal & Ore Buggies	140 11	14 56	4154 67	005						
Total	1862 33	4203 19	60655 22	194	945 46	4622 86	5568 33	143		
<u>Operating</u>										
Machinery	1839 05	982 96	2822 01	090	1954 07	732 08	2686 15	070		
Electric Light	433 39	120 21	553 60	018	437 85	126 40	564 25	015		
Bottom Fillers	6474 57	65 79	6540 36	210	7249 04	106 34	7355 38	190		
Top Fillers	2035 73	11 02	2039 75	065	2318 33		2318 33	060		
Handling Iron	3714 78	235 67	3950 45	127	4361 98	20 23	4382 21	112		
Handling Lunders	2233 44	206 54	2439 98	078	2390 27	178 83	2569 10	066		
Whipping & Grading Iron	328 10	50 00	378 10	012	380 00	63 00	443 00	011		
Tools, Drills, Triples & Hoppers	6288 31	8 00	6296 31	202	7217 90	39 80	7257 70	187		
Coal Trucks	5053 88	37 53	5091 41	163	5657 89	15 15	5673 04	146		
Carling Tools	203 56	234 94	438 50	014	221 71	290 74	512 45	013		
Sand & Clay	663 89	542 68	1206 57	039	649 29	838 90	1488 19	038		
Cleaning Hours					134 46	79 12	213 58	006		
Total	29268 70	2488 34	31757 04	1018	32972 79	2490 59	35463 38	914		
<u>Stock Used</u>										
Iron		946 18 81	946 18 81	3033		1139 67 55	1139 67 55	2937		
Charcoal		143390 61	143390 61	4597		170529 26	170529 26	4394		
Limestone		2737 98	2737 98	088		2621 70	2621 70	067		
Total		240747 40	240747 40	7718		287118 51	287118 51	7398		
Cost of Production	43116 77	253964 16	297080 93	9533	44794 81	300334 22	345129 03	8893		
<u>Depreciation</u>										
Construction		15590 00	15590 00	500		19404 50	19404 50	500		
Improvement		6630 32	6630 32	212		1006 68	1006 68	026		
Equipment		3223 72	3223 72	103		2694 04	2694 04	069		
Total		25443 04	25443 04	815		23100 22	23100 22	595		
Credits		1196 18	1196 18	038		469 07	469 07	012		
Total		24233 21	24233 21	777		22631 15	22631 15	583		
Total Cost on year	43116 77	278197 37	321314 14	10300	44794 81	322965 37	367760 18	9476		
<u>Loading & Switching 1899</u>										
Loading Cars	17120	8366	1259 13	4589	1305 02	076	421 90	1836	440 26	052
Switching	17120	8366	191 95	144 28	336 23	019	101 57	103 98	205 55	025
Total			1451 08	190 17	1641 25	095	523 47	122 34	645 81	077
Loading Trucks	22410	34813	403 08	1934 01	2337 09	104	401 16	3489 06	3890 22	112
Grand Total	44970 93	380321 55	325292 48	10428	45719 44	326576 77	372296 21	9593		
Construction Account not sunk off			117270 77				132860 77			
Improvement Account not sunk off			3626 55				1001 68			
			144897 32							

Summary of Cost per Ton	1899			1898			Yield	1899	1898
	On Yard	On Cars	On Street	On Yard	On Cars	On Street			
Cost worked as above	10.300	10.300	10.300	9.476	9.476	9.476	Iron	53.5	53.5
Cost to load as above		.095	.104		.077	.112	Charcoal	87.1	84.5
Total	10.300	10.395	10.404	9.476	9.553	9.588	Flux	272	221
Commission & Expenses Cleveland Office	350	.350	.350	350	350	350	Cost per Ton Labor 1899	1441	
Total Cost	10.650	10.745	10.754	9.826	9.903	9.938	" " " " 1898	1178	

The Cleveland Cliffs Iron Co.

Pioneer Furnaces

Comparative Pig Iron Cash Sheets

1897 - 1898.

1

The Cleveland Pipe Iron Company

Pioneer Furnace

Comparative Statement of Refined Alcohol Cost Sheets Years 1898 and 1899

Gallons Produced, 1899 102196

Gallons Produced 1898 109485

	1899			Cost per Gallon 1899	1898			Cost per Gallon 1898
	Labor	Supplies	Total		Labor	Supplies	Total	
General Expenses								
Office Expense		24 26	24 26			513 76	513 76	005
Fire Insurance		1375 20	1375 20	014		1375 20	1375 20	012
Analysis	481 66	155 63	637 29	006	452 69	218 39	671 08	006
Taxes		713 13	713 13	007		576 50	576 50	006
Total	481 66	2268 22	2749 88	027	452 69	2683 85	3136 54	029
Maintenance								
Stalks and Stills	739 26	907 38	1646 64	017	370 33	638 51	1008 84	010
Condensers	340 72	126 27	466 99	004	5 84	45 95	51 79	000
Pumps and Boilers	424 73	289 14	713 87	007	571 49	314 81	886 30	008
Fans and Pulleys	62 05	106 62	168 67	001	55 87	44 16	103 03	001
Smoke Trains	598 26	364 38	962 64	010	222 06	85 42	307 48	003
Buildings	509 27	256 17	765 44	008	53 89	106 15	160 04	001
Water trough	67 19	180 94	248 13	002				
Cleaning Exp.	144 75	4 50	149 25	001				
Primary Stills	5 57	526 68	532 25	005				
Painting Stack		25 00	25 00					
Engines					74 40	15 80	90 20	
Total	2891 80	2787 08	5678 88	055	1356 88	1250 80	2607 68	023
Operating								
Superintendent	1500 00		1500 00	014	1500 00		1500 00	013
Stillmen	2758 52	142 56	2901 08	028	2984 86	67 88	3052 74	028
Firemen	2186 79	2 75	2189 54	022	2353 12		2353 12	021
Pumps and Engines	126 41	265 97	392 38	004	99 36	262 85	362 21	003
Fuel	422 37	4196 82	4619 19	046	593 47	7008 21	7601 68	070
Electric Light	158 72	56 10	214 82	002	145 96	42 11	188 07	002
Lime		3610 13	3610 13	085	33 95	4139 55	4173 50	038
Chemicals		289 55	289 55	003		361 74	361 74	003
Watchman Fire Protection	130 05		130 05	001				
Total	7282 86	8563 88	15846 74	155	7710 72	11882 84	19593 06	178
Cost of Production								
Depreciation Construction		4557 60	4557 60	045		4557 60	4557 60	041
Depreciation Improvement		10231 44	10231 44	099		2755 30	2755 30	026
Total		14789 04	14789 04	144		7312 90	7312 90	067
Supplies		33 73	33 73			9 91	9 91	
Total		14755 31	14755 31	144		7302 99	7302 99	067
Total Cost								
	10656 32	28374 49	39030 81	381	9520 29	23119 98	32640 27	297
Loading and Switching								
Barrels <small>104189 104189</small>		2920 39	2920 39	028		2890 80	2890 80	027
Loading <small>104428 107409</small>	41 89		41 89		26 95	3 00	29 95	000
Switching <small>104428 107409</small>	20 97	13 04	34 01		16 23	16 41	32 64	000
Total	62 86	2933 43	2996 29	028	43 18	2910 21	2953 39	027
Total Cost on Bar								
	10719 18	31307 92	42027 10	409	9563 47	26030 19	35593 66	324
Total Cost per Gallon								
	104	306			057	238		
Construction Acct not sunk off.								
			273 45 16				31902 76	
Improvement Acct not sunk off.								
			7476 16				2755 28	
Smoke Rec'd Year 99 33498								
Yield of Alcohol per Cord of Wood								
				3 05			2 80	
Yield of Pyroligneous Acid per Cord of Wood								
				2 08			2 14	

The Cleveland Cliffs Iron Co.
Pioneer Furnace
Comparative Statement of
Refrid at whole Cost Sheets
Years 1898 and 1899.

The Cleveland Cliffs Iron Company,
Pioneer Furnace.

Comparative Statement
Gray Acetate Book Sheets

Years 1898 and 1899.

THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE.

Charcoal Cost Sheet. Comparative Statement For the Month of Year 1898 and 1899

ACCOUNT	Month of <u>Year 1899</u>			Mo's ending <u>Year 1898</u>		
	Bushels	Amount	Cost per Bushel	Bushels	Amount	Cost per Bushel
PIONEER FURNACE KILNS	1477706			1797382		
Wood		62051 00	0420		69475 43	0387
Loading from Yard		331 62	0002		162 05	0001
Packing		6340 13	0043		5811 55	0032
Kiln Tending		1187 69	0008		1205 94	0006
Taking out Breeze		558 71	0004		624 17	0003
Whitewashing		1233 26	0008		1049 16	0006
Cleaning out Kilns		537 59	0004		549 93	0003
Depreciation		1773 25	0012		2157 03	0012
Wood Shortage		311 11	0002		1956 28	0011
Repairs					305 50	0002
Total		74324 36	0503		83291 04	0463
CREDIT BY SALES				62	6 20	0000
Net Total		74324 36	0503	1797320	83284 84	0463
<i>of Cords for Year</i>	$\frac{1899}{33566.24}$	$\frac{1898}{38950.24}$				
AVERAGE YIELD PER CORD	44²			46²		
FORD RIVER KILNS	104020			218100		
Wood		3131 34	0301		6634 61	0304
Filling, Burning and Emptying		1601 65	0154		3271 50	0150
Freight		858 56	0082		1787 10	0082
Taxes		141 43	0013		123 84	0006
Use of Kilns		124 82	0012		296 02	0014
Repairs		57 57	0006		88 55	0004
Mill					33 40	0001
Total		5915 37	0568	218100	12233 02	0561
<i>House Rents for Year</i>		120 10	0011		150 10	0007
Total		5795 27	0557	42⁵	12084 92	0554
AVERAGE YIELD PER CORD	44⁵			42⁵		
<i>of Cords for Year</i>	$\frac{1899}{2339}$	$\frac{1898}{5121}$				
FELCH MOUNTAIN KILNS	11320			167060		
Wood		353 25	0312		4524 66	0270
Filling, Burning and Emptying		198 10	0175		2505 90	0150
Freight		109 05	0096		1592 12	0096
Taxes		27 00	0024		25 64	0001
Use of Kilns		13 58	0012		225 72	0013
Repairs		24 78	0022		11 66	0001
Charcoal Car Bunk					78 03	0005
Total		725 76	0641	167060	8963 78	0536
<i>House Rents for Year</i>		131 20	0116		101 70	0006
Net Total		594 56	0525		8862 03	0530
AVERAGE YIELD PER CORD	42⁵			49⁴		
<i>of Cords for Year</i>	$\frac{1899}{266}$	$\frac{1898}{3346.28}$				
FROM JOBBERS	1105240			1105850		
Coal		53046 60	0480		54917 52	0497
Freight		6384 97	0058		7791 20	0070
Switching		632 36	0005		772 71	0007
General Expense		329 17	0003		1413 71	0013
Insurance on Cars		114 00	0001		114 00	0001
Total		60507 10	0547	1105850	65009 14	0588
FUEL SUPERINTENDENT	2698286	1500 00	0005	3288392	1500 00	0004
Grand Total	2698286	142721 29	0528	3288392	170747 13	0520

Felch Mt. Kilns credit - Claim burnt charcoal car released \$78.03
 House Rents for Year 53.17
 \$131.20

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Charcoal Cost Sheet.

For the ^{Years} Month of 1898 and 1899

Comparative Statement

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

Year 1899

Ore and Limestone Cost Sheet,

ACCOUNT	TONS	AMOUNT		Cost		Amount		Cost		Total		Total	
				per Ton	per Ton	Unloading and Switching	per Ton	Amount	Cost per Ton				
Lake	20800 ¹⁰³⁰	22177	06	1066	8320	48	400	795	77	034	31293	31	1500
Cliffs Shaft	7516 ⁰²⁷⁰	11018	28	1466	3005	86	400	543	66	070	14567	80	1936
Salisbury #3	718 ²⁰³⁰	539	18	750	287	59	400	26	77	030	853	54	1180
Section #21	10994 ²⁰⁴⁰	13634	33	1240	4398	11	400	290	71	021	18323	15	1661
Merida	5009 ²⁰⁷⁰	7765	38	1550	2003	95	400	206	25	040	9975	58	1990
Hoster	4989 ⁰⁶³⁰	4989	27	1000	1995	73	400	231	25	041	7216	25	1441
Enwa													
Salisbury	11610 ⁰⁴⁵⁰	13932	24	1200	4644	13	400	516	44	040	19092	81	1640
Total	61639 ¹⁸⁰⁰	74055	74	1201	24655	85	400	2610	85	040	101322	44	1641
Limestone	5647 ¹²⁶⁰	3426	17	620	505	50	081	269	16	041	4200	83	742
Total	5647 ¹²⁶⁰	3426	17	620	505	50	081	269	16	041	4200	83	742

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Ore and Limestone Cost Sheet.

Year of 1899

Cleveland Cliff Iron Co.

Pioneer Furnace

Record of Chemical Plant

Month	Cyclohexanous Acid					Neutralized Liquor										95% Refined Alcohol			Wood Alcohol		Refined Alcohol per Gallon			Total Pounds				
	Total Yield per Gallon per Month	No. of Gallons	Amount in Gallons	Per Cent	No. of Gallons	Amount Neutralized	What % of Liquor	No. of Gallons	Amount in Still	What % of Liquor	Loss in Still	What % of Liquor	What % of Liquor	What % of Liquor	What % of Liquor	What % of Liquor	What % of Liquor	Loss	Per Cent	Yield in Gallons	No. of Cords	No. of Cords	Loss		Loss	Loss	Loss	
1898																												
December	682200	215	12.23	22006	1.49	7.19	12513	57.18	5.77	10675	1808	48.51	84.84	10165	9730	435	4.28	314	3180	103	3.20	3.06	.14	2351				
January	642600	189	11.82	20729	1.66	7.39	12733	62.39	5.98	11063	1870	53.37	85.54	10667	10119	548	5.14	326	3392	110	3.15	2.98	.17	2803				
February	597600	198	11.86	21342	1.65	7.14	12495	58.55	5.86	10841	1654	50.79	86.76	9860	9853	7	.07	352	3021	108	3.26	3.26	.00	2486				
March	673200	212	12.06	21708	1.55	7.16	12456	57.29	6.03	11156	1280	50.89	89.71	10435	9811	624	5.98	316	3180	102	3.28	3.08	.20	2991				
April	698400	206	12.93	23280	1.50	7.67	13423	57.66	7.43	13746	303	59.05	102.41	10476	10031	445	4.25	334	3392	113	3.04	2.96	.13	2936				
May					1.25										8301			268	3180	103		2.61			2722			
June	696600	223	12.90	23220	1.27	9.00	15750	67.82	7.17	14638	1112	63.04	92.94	8847	8672	175	1.98	289	3127	104	2.83	2.77	.06	2466				
July	696600	219	12.48	22471	1.17	8.84	15470	68.15	8.39	17129	1659	76.23	110.72	8150	8270	20	2.41	267	3180	102	2.56	2.60	.04	2575				
August	700200	220	12.55	22577	1.36	8.39	14688	65.01	7.74	15813	1130	70.01	107.70	9523	8462	1061	11.14	273	3180	102	2.99	2.66	.33	3935				
September	621000	202	11.50	20700	1.37	8.33	14578	70.42	7.60	15518	940	74.97	106.45	8508	7860	648	7.62	262	3074	102	2.77	2.56	.21	4177				
October	700200	213	12.55	22587	1.41	8.32	14560	64.46	7.23	15761	1206	69.81	108.28	9873	9335	538	5.45	301	3286	106	3.00	2.84	.16	4455				
November	696600	196	12.90	23220	1.51	8.43	14753	63.53	7.17	14638	115	63.04	99.22	10519	9041	1478	14.05	301	3551	118	2.96	2.55	.41	4418				
	673200	208	12.31	22168	1.43	7.99	13969	63.01	6.94	13725	289	61.75	97.69	9729	9124	531	5.31	300	3229	106	3.01	2.83	.18	3192				
1899																												
December	689400	188	12.35	22239	1.86	8.42	14735	64.26	7.32	14946	211	67.21	101.43	12823	10833	1990	15.52	349	3657	118	3.51	2.96	.55	4481				
January	709200	223	12.71	22877	1.71	8.51	15418	67.49	7.45	15210	208	68.49	98.65	12127	10004	2123	17.51	323	3180	102	3.81	3.14	.67	4428				
February	630000	208	12.50	22500	1.72	8.25	14438	64.17	7.07	14435	3	64.20	99.99	10836	9663	1173	10.83	345	3020	108	3.59	3.20	.39	4104				
March	534400	214	12.32	22176	1.68	8.22	12110	54.61	6.00	12100	70	54.92	100.58	9314	8425	889	9.54	337	2597	104	3.59	3.24	.35	3233				
April	768600	227	14.23	25620	1.67	7.47	13067	51.00	6.36	12605	462	49.20	96.46	12836	11188	1639	12.77	373	3392	113	3.78	3.30	.48	3648				
May	703800	222	12.61	22703	1.54	7.84	13718	60.42	6.58	13482	266	59.25	98.06	10839	9539	1300	11.99	308	3180	103	3.41	3.00	.41	4542				
June	639000	223	11.80	21300	1.36	7.70	13860	65.07	6.93	14066	206	66.03	100.15	8690	7608	1081	12.44	253	2862	95	3.03	2.66	.37	4626				
July	648000	223	11.61	20900	1.33	7.48	13419	64.19	6.71	13613	194	65.12	101.44	8618	5760	2888	33.16	186	2862	92	3.01	2.91	.10	4700				
August																												
September	381600	196	13.25	23850	1.96	7.56	13612	57.07	6.00	11800	1812	49.47	86.68	7479	6315	1164	15.56	394	1944	121	3.84	3.22	.62	4335				
October	563400	191	12.41	22350	1.89	8.54	15375	68.79	8.25	15447	52	69.02	100.34	10648	9436	1212	11.38	393	2808	117	3.79	3.36	.43	4611				
November	730800	182	13.58	24360	2.06	8.50	15300	62.80	7.07	13215	2085	54.24	86.37	15054	13892	1162	7.15	463	3976	133	3.76	3.48	.28	5138				
	668400	209	12.67	22807	1.71	7.95	14096	61.99	6.88	13723	373	60.47	97.29	11358	9767	1581	14.41	339	3190	100	3.56	3.05	.51	4322				

State when new taken
from stock, also
chemical apparatus

The primaries during May are filled continuously.

Chemical Plant shut down for repairs July 31.
" " started Sep. 14.

The Cleveland-Cliffs Iron Co.

Porous Iron Dept.

Record of Chemical Plant

1898-1899.

The Cleveland Cliffs Iron Co.
Pioneer Furnace
Stock Accounts November 30-1899.

— Quantity — Amount — Cash —

Supplies					1050389	
Chemical Supplies					121956	
Laboratory Supplies					12855	
Equipment					1590521	
Lake Ore	Tons	2071	<u>15</u>		315149	1,521
Salisbury "	"	259	<u>420</u>		42032	1,621
Foster "	"	3978	<u>483</u>		568013	1,428
Cliffs Shaft "	"	3400	<u>122</u>		679939	2,000
Puwaie " Still fur	561.		<u>1140</u>		183052	3,260
Wood in Furnace Yard	Cords	1071	<u>16</u>		256533	2,394
" " Kilns	"	3030			624520	2,061
" ah Ford Oven	"	1615	<u>28</u>		214964	1,330
" " Felch Mh.	"	3472	<u>08</u>		461590	1,330
" " Sect. 27	"	362			35196	972
" " Parsons	"	28603	<u>08</u>		3018540	1,055
" " Mathews Trach	"				6225	
Charcoal	Bushels	21000			118650	.0565
Limestone	Tons	3066	<u>1876</u>		233053	.760
					<u>9533177</u>	

The Cleveland Cliffs Iron Co.

Pioneer Furnace

Stock Accounts Nov. 30/99.

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

PIG IRON STOCK REPORT FOR THE WEEK ENDING November 30th 1899

H. Niedecken Co., Mfg. Stationers, Milwaukee. 74,993.

PIG IRON GRADES	Total For Week	Previous For Month	Total For Month	Over and Short	Total from Dec. 1, 1898	Transfers	In Stock Dec. 1, 1898	Total	Shipped since Dec. 1, 1898	Balance On Hand
Scotch		40	40		290	152	49	491 ✓	491 ✓	
B Scotch		159	159		342	33	454	763 ✓	759 ✓	4
C Scotch		192	192		610	21	810	1381 ✓	1290 ✓	91
No. 1 Special	10	348	358	17	1609	150	561	2320 ✓	1846 ✓	474
No. 1 Foundry	75	614	689		3146	259	236	3641 ✓	3611 ✓	30
No. 2 Low	64	197	261	15	2497	580	682	3759 ✓	3735 ✓	24
No. 2 High	117	162	279	15	3573	622	440	4635 ✓	4625 ✓	10
No. 3 Low	126	361	487		4494	354	1320	6168 ✓	5975 ✓	193
No. 3 Medium						15	553	568 ✓	568 ✓	
No. 3 High	221	97	318		2637	131	342	3110 ✓	2727 ✓	383
No. 3 Malleable	128	82	210	26	2818	20	48	2886 ✓	2571 ✓	315
No. 3 Cylinder						16	375	359 ✓	359 ✓	
No. 4 Low	113	62	175	12	2078	54	158	2290 ✓	2040 ✓	250
No. 4 High	192	89	281		2389	146	22	2557 ✓	2415 ✓	142
No. 4 Malleable	11	11	22	8	1308	40		1348 ✓	1327 ✓	21
No. 5	87	28	145		1800	67	62	1929 ✓	1880 ✓	49
No. 6	36	42	78		1682	53	143	1878 ✓	1869 ✓	9
Spotted Castings						251	251			
No. 1 Abnormal						195	198	3 ✓	3 ✓	
No. 2 Abnormal						463	465			
No. 3 Abnormal						820	826			
Bessemer						818	2337	1519	1519	
Bessemer						5986				
Bessemer										
<i>Hot Furnace</i>	1180	2484	3664	93	31270		10332	41605	39610	1995
<i>Hot L.P. Pile</i>				80	80			80	80	
TOTAL	1180	2484	3664	13	31190		10332	41525	39530	1995

The Cleveland

PIOR

PIG IRON STOCK REPORT.

For the week ending November 30th '99

WM. G. MATHER, PRES. AND TREAS.

J. H. SHEADLE, SECRETARY.
R. C. MANN, AUDITOR.

AUSTIN FARRELL, MANAGER.

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE DEPARTMENT.

BUILDERS OF
PIONEER MARINE AND STATIONARY
GAS ENGINES.

LAKE SUPERIOR CHARCOAL PIG IRON,

GENERAL
MACHINE WORK AND CASTINGS
A SPECIALTY.

REFINED WOOD ALCOHOL
AND
GRAY ACETATE OF LIME.

FURNACE AND CHEMICAL WORKS
GLADSTONE, MICHIGAN.

GLADSTONE, MICH., Dec. 18th, 1899.

Mr. R. C. Mann, Auditor-

Cleveland, Ohio.

Dear Sir:-

I herewith send you corrected Stock Report for Week ending November 30th'99 which shows the 59 gallons of wood alcohol deducted as per your letter of Dec. 6th, account of shortages of Alcohol shipped to Berry Bros. Trusting same is satisfactory I remain

Yours truly,

C. U. R. Townsend ----- Bkpr

(2)

THE
Cleveland-Cliffs Iron Co.
Pioneer Furnace.

STOCK REPORT FOR WEEK ENDING

November 30th 1899.

6

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

Year 1899
MONTH OF 1

LABOR STATEMENT	No. Men	No. Days	Earnings	RATE PER DAY	
				Current Month	Last ^{Year} Month
FURNACE					
Engineers,	2	705 ⁵	1213 77	1 72	1 65
Firemen	1	361 1	565 60	1 56	1 50
Founders	2	685	2174 10	3 17	3 08
Keepers	2	724	1423 80	1 97	1 90
Helpers	6	2159 2	3628 13	1 68	1 62
Top Fillers	3 ²	1445 2	2366 34	1 64	1 60
Bottom Fillers	12 ²	4634 4	7184 96	1 55	1 52
Cinder Snappers	3 ²	1380 9	2191 57	1 51	1 51
Iron Grader		60 2	105 00	1 74	
Iron Handlers	6 ³	2321 2	4064 26	1 75	1 78
Coal Forkers	8 ¹	2962	4703 83	1 59	1 55
Coal Car Pusher	1 ⁹	668	936 53	1 40	1 55
Sand Man	0 ²	345 2	565 17	1 64	1 64
Total,	50 ⁵	18451 9	31122 76	1 69	1 67
CHEMICAL PLANT					
Stillmen	4 ¹	1496 5	2583 69	1 72	1 65
Firemen	2	748 2	1203 74	1 60	1 36
Engineers	2	726 4	1244 55	1 70	1 60
Laborers	1	324 2	458 10	1 38	1 35
Total,	9	3296	5490 08	1 66	1 55
ACETATE PLANT					
Rakers	1 ⁸	655 1	1530 55	2 34	1 78
Skimmers	1 ⁹	681 8	1037 34	1 52	1 33
Total,	3 ⁷	1336 9	2567 89	1 92	1 56
FURNACE KILNS					
Colliers	2	710	1291 35	1 82	1 56
Whitewashers	1 ²	702	1016 85	1 43	1 43
Packers	11 ²	4270 8	7057 51	1 65	1 44
Packer Foreman	1	364 5	603	1 65	2 96
Kiln Cleaners	0 ²	358 4	550 95	1 54	1 44
Breeze Man	1	388 3	568 34	1 46	1 41
Total,	18 ⁵	6794	11088 00	1 63	1 54
MISCELLANEOUS					
Barn Boss	1	365	600 00	1 64	1 64
Teamsters and Helpers	2 ¹	766 2	1219 79	1 59	1 53
Blacksmith	0 ⁸	317 9	648 19	2 03	1 65
Blacksmith Helper	0 ⁸	290	370 63	1 26	1 26
Electrician	1	378 3	664 71	1 75	1 65
Carpenters	4	1528	3378 35	2 21	1 69
Machinists	4 ⁹	1801 4	3808 78	2 11	2 13
Locomotive Engineer	1	366 7	791 27	2 15	2 01
Locomotive Brakemen	1	357 3	681 34	1 91	1 77
Yard Foreman	1	365	1046	2 86	2 76
Laborers	7 ⁵	2743 9	3907 83	1 42	1 27
Laboratory Boy	2 ²	726	911 50	1 26	95
Masons	0 ²	256 8	566 15	2 20	2 93
Cupalo Man	0 ⁴	152 5	244 00	1 60	1 50
Loading Iron	1 ¹	348 5	978 63	2 80	
Regrading Iron.		25 4	34 36	1 35	1 50
Total,	29 ⁵	10788 9	19851 53	1 84	1 75
OFFICE PAY ROLL					
	8	2606	13769 93	5 28	5 06
Grand Total,	119 ²	43273 7	83890 19	1 94	1 86
PARSON'S WOOD JOB					
Foreman and Measuring	1 ³	489 9	778 15	1 69	1 65
Chopping 44872 Cords	98	30364	38434 08	1 26	91
Parsons Railway Section	0 ²	248	384 65	1 55	
Fire Protection Employing Choppers		37 5	93 75	2 50	
Total,	100	31109 4	39640 63	1 27	92

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

Year. 1899
MONTH OF _____

LABOR STATEMENT	No. Men	No. Days	Earnings	RATE PER DAY	
				Current Month	Last Month
FURNACE					
Engineers,	2	705 ⁵	1213 47	1 72	1 65
Firemen	1	361 1	565 60	1 56	1 50
Founders	2	685	2174 10	3 17	3 08
Keepers	2	724	1423 80	1 97	1 90
Helpers	6	2159 2	3628 13	1 68	1 62
Top Fillers	3 ²	1445 2	2366 34	1 64	1 60
Bottom Fillers	12 ²	4634 4	7184 96	1 55	1 52
Cinder Snappers	3 ²	1380 9	2191 57	1 51	1 51
Iron Grader		60 2	105 00	1 74	
Iron Handlers	6 ²	2321 2	4064 26	1 75	1 78
Coal Forkers	8 ¹	2962	4703 83	1 59	1 55
Coal Car Pusher	1 ²	668	936 53	1 40	1 55
Sand Man	0 ²	345 2	565 17	1 64	1 64
Total,	50 ²	18451 9	31122 76	1 69	1 67
CHEMICAL PLANT					
Stillmen	4 ¹	1496 5	2583 69	1 72	1 65
Firemen	2	748 2	1203 74	1 60	1 36
Engineers	2	726 4	1244 55	1 70	1 60
Laborers	1	324 2	458 10	1 38	1 35
Total,	9	3296	5490 08	1 66	1 55
ACETATE PLANT					
Rakers	1 ⁸	655 1	1530 55	2 34	1 78
Skimmers	1 ²	681 8	1037 34	1 52	1 33
* Total,	3 ²	1336 9	2567 89	1 92	1 56
FURNACE KILNS					
Colliers	2	710	1291 35	1 82	1 56
Whitewashers	1 ²	702	1016 85	1 43	1 43
Packers	11 ²	4270 8	7057 51	1 65	1 44
Packer Foreman	1	364 5	603	1 65	2 96
Kiln Cleaners	0 ²	358 4	550 95	1 54	1 44
Breeze Man	1	388 3	568 34	1 46	1 41
Total, <i>.3304</i>	18 ²	6794	11088 00	1 63	1 54
MISCELLANEOUS					
Barn Boss	1	365	600 00	1 64	1 64
Teamsters and Helpers	2 ¹	766 2	1219 79	1 59	1 53
Blacksmith	0 ⁸	317 9	648 19	2 03	1 65
Blacksmith Helper	0 ⁸	290	370 63	1 26	1 26
Electrician	1	378 3	664 71	1 75	1 65
Carpenters	4	1528	3378 35	2 21	1 69
Machinists	4 ⁹	1801 4	3808 78	2 11	2 13
Locomotive Engineer	1	366 7	791 27	2 15	2 01
Locomotive Brakemen	1	357 3	681 34	1 91	1 77
Yard Foreman	1	365	1046	2 86	2 76
Laborers	7 ⁵	2743 9	3907 83	1 42	1 27
Laboratory Boy	2 ²	726	911 50	1 26	9 5
Masons	0 ²	256 8	566 15	2 20	2 93
Cupalo Man	0 ⁴	152 5	244 00	1 60	1 50
Loading Iron	1 ¹	348 5	978 63	2 80	
<i>Regrading Iron.</i>		25 4	34 36	1 35	1 50
Total,	29 ²	10788 9	19851 53	1 84	1 75
OFFICE PAY ROLL					
	8	2606	13769 93	5 28	5 06
Grand Total,	119 ²	43273 7	83890 19	1 94	1 86
PARSON'S WOOD JOB					
Foreman and Measuring	1 ²	459 9	778 15	1 69	1 65
Chopping 44872 Cords	98	30364	38434 08	1 26	91
<i>Parsons Railway Section</i>	0 ²	248	334 65	1 35	
<i>Fire Protection Employing Choppers</i>		27 5	43 75	2 50	
Total,	100	31109 4	39640 63	1 27	92

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

LABOR STATEMENT.

Month of Year of 1899.

The Cleveland Cliffs Iron Company.
Pioneer Furnace

Detailed Statement of Shop Labor for Fiscal Year ending November 30th 1899

Machine Shop	Pay Roll	Supplies	Total Shop Debit	Total Hours	Less Hours Repair Tools	Net Hours Charged	Cost per hour	Hours charged to various accounts	Hours charged to office	Amount charged various accounts	Amount charged various credits	Total Shop Credit	Net Profit per hour	Net Profit
December.	290 57	8 61	299 18	1421	54	1367	219	1334	13	290 41	13 20	303 61	134	4 43
January.	302 07	19 67	321 74	1496	12	1484	216	1454	30	314 40	14 10	328 50	225	6 76
February.	319 70	4 74	324 44	1586	49	1537	211	1517	20	321 68	8 00	329 68	261	5 24
March.	377 83	5 68	383 51	1846	50	1796	213	1712	84	364 46	34 40	398 86	182	15 35
April.	283 10	12 71	295 81	1393	25	1368	216	1316	52	283 62	20 80	304 42	165	8 61
May.	293 14	17 30	310 44	1241	15	1226	253	1046	180	264 80	72 00	336 80	146	26 36
June.	327 26	3 36	330 62	1586	40	1546	213	1415	131	300 91	36 10	337 01	049	6 39
July.	277 42	8 10	285 52	1298	18	1280	223	1215	65	271 02	26 00	297 02	177	11 50
August.	477 74	7 60	485 34	2280	16	2264	214	2217	47	475 36	18 40	493 76	179	8 42
September.	436 10	10 46	446 56	2055	37	2018	221	1988	30	439 97	12 00	451 97	180	5 41
October.	379 35	4 50	383 85	1929	52	1877	204	1858	19	379 90	5 42	385 32	077	1 47
November.	343 85	12 90	356 75	1584	63	1521	234	1521		356 75		356 75		
Total	4108 13	115 63	4223 76	19715	431	19284	219	18593	691	4063 28	260 42	4323 70	144	99 94
Blacksmith Shop														
December.	82 25	3 58	85 83	293	3	290	295	290		85 83		85 83		
January.	82 00	6 27	88 27	261	4	257	340	256	1	87 85	50	88 35	08	08
February.	77 10	3 58	80 68	251	6	245	329	245		80 68		80 68		
March.	96 85	2 00	98 85	311		311	317	307 ⁵	3 ⁵	97 75	1 40	99 15	086	30
April.	73 25	2 40	75 65	210	11	199	380	198	1	75 28	40	75 68	03	03
May.	80 27	4 66	84 93	267	5	262	324	243	19	78 76	8 80	87 56	138	263
June.	78 28	4 05	82 33	260	15	245	336	229	16	76 95	9 20	86 15	144	3 82
July.	83 60	6 65	90 25	250	10	240	370	239	1	90 06	50	90 56	310	31
August.	125 66	4 04	129 70	313	5	308	420	301	7	126 92	3 90	130 82	160	1 12
September.	94 27	2 72	96 99	293	5	288	337	282	6	94 95	3 40	98 35	227	1 36
October.	67 42	2 84	70 26	255	7	248	283	242	6	68 57	1 89	70 46	033	20
November.	75 45	3 70	79 15	238	21	217	364	217		79 15		79 15		
Total	1016 40	46 49	1062 89	3202	92	3110	341	3049⁵	60⁵	1042 75	29 99	1072 74	160	9 85
Car Shop														
December.	147 82		147 82	778		778	19	778		147 82		147 82		
January.	170 87		170 87	902		902	189	902		170 87		170 87		
February.	123 00		123 00	615		615	20	615		123 00		123 00		
March.	222 42		222 42	1181		1181	188	1181		222 42		222 42		
April.	186 59		186 59	992		992	188	992		186 59		186 59		
May.	164 90		164 90	1215		1215	135	1215		164 90		164 90		
June.	162 40		162 40	827		827	196	827		162 40		162 40		
July.	136 02		136 02	677		677	201	677		136 02		136 02		
August.	308 82		308 82	1359		1359	227	1359		308 82		308 82		
September.	215 19		215 19	919		919	234	919		215 19		215 19		
October.	117 07		117 07	542		542	216	542		117 07		117 07		
November.	126 75		126 75	573		573	221	573		126 75		126 75		
Total	2081 85		2081 85	10580		10580	196	10580		2081 85		2081 85		
Grand Total	7206 38	162 12	7368 50			32974				7187 88	290 41	7478 29		109 79

Note Machine and Smith work for outside parties charged at rate of .40¢ per hour.
Carpenters furnish their own tools No oils waste etc used in Car Shop, hence no charge for Supplies

The Cleveland Cliffs Iron Co.
Pioneer Furnaces.
Detailed Statement of
Shop Labor.
For Fiscal Year ending Nov 30th 99

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE.

Comparative Kiln Report for Years ending Nov.30th, 1898 & Nov.30th,1899

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<u>PIONEER FURNACE KILNS.</u>	<u>1899</u>	<u>1898</u>
No. Kilns filled during year	628	732
No. Kilns emptied during year	630	734
Cords wood put into Kilns during year	33388.6	39438.6
Cords wood in Kilns Dec.1st'98	2708	2220
Total Cords	36596.6	41658.6
Cords wood burned during year	33576.6	39447.4
Balance cords in Kilns	3020	2211.2.
Inventory Nov.30th'99 "Cords"	3030	2708
Overrun "	10	496.6
Total Bu. coal made during year	1477706	1797382
Average Bu. coal per Kiln	2346	2449
Average Bu. coal per Cord	44.2	46.2
Average time turning Kilns "Days"	25.3	22
Average Brands per Kiln	6.4	5.7
Average Cords per Kiln	53.7	53.8
Total:-	60.1	59.5
Average Kilns turned per month	60	61
Number of Kilns in Battery	50	50

NOTE:-

Kilns idle 45 days account of making repairs at Furnace & Chemical Plant.

FORD RIVER KILNS.

No. Kilns filled during year	54	118
No. Kilns emptied during year	54	118
Cords wood put into Kilns	2484	5121
Cords wood burned in Kilns	2339	5121
Total bushels coal made	104020	218100
Average bushels coal per kiln	1926	1848
Average bushels cord per cord	44.5	42.5
Average cords per Kiln	43.3	43.4
Average brands per Kiln	2.7	2.7
Total Cords	46	46.1
Average days turning Kiln	27	13.5
No. Kilns in Battery	8	8

NOTE:-

Kilns operating 6 Mos. Shut down Jan'y''99 Started March '99, Shut down June'99, Started Novemver'99.

Comparative Kiln Report for Years ending Nov.30th,1898 & Nov.30th,1899
Continued.

FELCH MT. KILNS.

No. Kilns filled during year	6	95
No. Kilns emptied during year	6	95
Cords wood put into Kilns during year	282	3246.7
Cords wood burned in Kilns during year	266	3246.7
Total Bu. coal made during year	11320	167060
Average Bu. coal per Kiln	1886	1760
Average Bu. coal per Cord	44.5	49.4
Average cords per Kiln	44.3	34.1
Average Brands per Kiln	2.7	2.2
Total Cords per Kiln	47	36.3
Average days turning Kiln	40	20.5
No. Kilns in Battery	8	8

NOTE:-

Kilns operating 30 days. Idle all year until Nov.1-99
Irregular operating and starting kilns last month of year makes comparison of average turning with previous year difficult.

CREME BOND

GREENE BOND

Balance of average product with provisions for depreciation
Interest on operating and capitalizing kilns first month of year ending 1898

NOTE:-
Kilns operated 30 days. 1918st year until Nov. 1-99

NO. KILNS IN OPERATION	8	9
Average days for each kiln	40	30.5
Total cords per kiln	40	30.5
Average strands per kiln	S.A	8.5
Average cords per kiln	4.5	3.1
Average No. coal per cord	1.2	1.1
Total No. coal used during year	1388	1280
Cords wood burned in kilns during year	1730	1000
Cords wood put into kilns during year	300	334.5
No. kilns operated during year	8	8
No. kilns killed during year	8	8

LEWIS M. KILMS.

Conservative Kiln Report for year ending Nov. 30th 1898 & Nov. 30th 1899

The Luskland Lumber Co.
Pioneer Furnace
Kiln Reports Year 1898-9

THE CLEVELAND-CLIFFS IRON COMPANY.

Pioneer Furnace

Statement showing cost of stable expenses for year 1899.

-- 0 --

<u>Commodities &c.</u>		<u>Total Cost.</u>	<u>Cost per Horse Per Day.</u>
Oats - - - -	Oats - - - -	\$346.00	.1029
Hay - - - -	- - - -	367.26	.1092
Feed - - - -	- - - -	57.80	.0172
Bran - - - -	- - - -	27.00	.0081
Straw - - - -	- - - -	6.39	.0019
Repairs Wagons & Carts	- - - -	26.85	.0080
Repairs Harness	- - - -	59.75	.0178
Curry Combs, Brushes & Hoof Oil	- - - -	17.20	.0051
Shoeing - - - -	- - - -	35.60	.0106
Medicine - - - -	- - - -	5.80	.0017
Doctor - - - -	- - - -	8.00	.0023
	Total-	\$957.65	.2848

3 Horses on Cinder Carts	1095 Days
1 Horse on Breeze Cart	365 "
2 Horses on Team	730 "
1 Extra Horse	365 "
Managers Horse	365 "
Foremans Horse	172 "
Fuel Sup't. Horse	180 "
Extra Teams for Loading Vessels	90 "
Total:	3362 "

The Curland Cliffs Iron Co.
 Pioneer Turnace
 Stable Expenses Year 1899.

CHEMIE BOND

THE STANDARD-TRUST COMPANY
 BROKER AND EXCHANGER

Statement of Profit and Loss and Expenses for Year 1899

Item	Debit	Credit	Balance
Jan 1			0.00
Jan 10	10.00		10.00
Jan 20	20.00		30.00
Jan 30	30.00		60.00
Feb 1		10.00	50.00
Feb 15	15.00		65.00
Feb 25	25.00		90.00
Mar 1		20.00	70.00
Mar 15	15.00		85.00
Mar 30	30.00		115.00
Apr 1		10.00	105.00
Apr 15	15.00		120.00
Apr 30	30.00		150.00
May 1		10.00	140.00
May 15	15.00		155.00
May 30	30.00		185.00
Jun 1		10.00	175.00
Jun 15	15.00		190.00
Jun 30	30.00		220.00
Jul 1		10.00	210.00
Jul 15	15.00		225.00
Jul 30	30.00		255.00
Aug 1		10.00	245.00
Aug 15	15.00		260.00
Aug 30	30.00		290.00
Sep 1		10.00	280.00
Sep 15	15.00		295.00
Sep 30	30.00		325.00
Oct 1		10.00	315.00
Oct 15	15.00		330.00
Oct 30	30.00		360.00
Nov 1		10.00	350.00
Nov 15	15.00		365.00
Nov 30	30.00		395.00
Dec 1		10.00	385.00
Dec 15	15.00		400.00
Dec 30	30.00		430.00
Total	1500.00	1500.00	

CHEMIE BOND

Total - 1500.00

Total: 2200

The Cleveland Cliffs Iron Co
Pioneer Furnace
Legal Expenses for Year 1899.

Sept.

Services of
George Hayden Attorney
in connection with division
of Government Lot 3 and
Durrell Chemical Co. Charcoal
Contract

\$ 25 25

The Cleveland & Buff Iron Co
Pioneer Furnace
Legal Expenses for Year 1899

The Cleveland Cliffs Iron Company.
Pioneer Furnace

Statement of Charges to Rented Houses and Rents Rec'd during Year 1899

<u>House</u>	<u>Repairs</u>	<u>Insurance</u>	<u>Gases</u>	<u>Total Charges</u>	<u>Rent Received</u>	<u>Net Rent</u>
1	2 00	2 34		4 34	72 00	67 66
2	1 88	2 34		4 22	72 00	67 78
3	2 20	2 34		4 54	72 00	67 46
4	2 36	2 34		4 70	72 00	67 30
5	2 91	2 34		5 25	72 00	66 75
6	6 88	2 34		9 22	72 00	62 78
7	3 98	2 34		6 32	72 00	65 68
8	3 65	2 34		5 99	72 00	66 01
9	2 55	2 34		4 89	72 00	67 11
10	2 55	2 34		4 89	72 00	67 11
11	4 55	2 34		6 89	72 00	65 11
12	2 55	2 34		4 89	72 00	67 11
13	17 79	2 34		20 13	69 00	48 87
14	5 30	2 34		7 64	72 00	64 36
15	4 55	2 34		6 89	72 00	65 11
16	3 55	2 34		5 89	72 00	66 11
17	2 75	2 34		5 09	72 00	66 91
18	2 97	2 34		5 31	72 00	66 69
19	3 30	2 34		5 64	72 00	66 36
20	5 01	2 34		7 35	72 00	64 65
21	5 0	2 34		2 84	69 00	66 16
22	1 25	2 34		3 59	69 00	65 41
23	5 0	2 34		2 84	69 00	66 16
24	5 0	2 34		2 84	69 00	66 16
25	5 50	7 00		12 50	44 00	31 50
26	5 50	7 00		12 50	41 00	28 50
27	5 0	2 34		2 84	51 00	48 16
28	5 0	2 34		2 84	69 00	66 16
29	5 0	2 34		2 84	60 00	57 16
30	5 0	2 34		2 84	69 00	66 16
<u>Clerk's</u>	23 39	5 00	31 73	60 12	120 00	59 88
<u>Master Mechanic</u>	141 85	5 00	33 65	180 50	120 00	60 50
<u>Total</u>	264 27	89 52	65 38	419 17	2287 00	1867 83

High cost of repairs on Master Mechanic House. due to building Sewer Costing \$11260

Cleveland Cliffs Iron Co

Pioneer Furnace

Statement of Charges to Rented Houses
and Rents Received during Year 1899

Statement of mileage made by C.C.I. cars on the C. & N.W. Ry. for
Fiscal year 1899

CAR NO.	Total Miles One Way	CAR NO.	Total Miles One Way
101	61.7	121	10.0
102	72.6	122	108.2
103	65.5	123	43.5
104	77.0	124	99.3
105	39.1	125	33.5
106	10.0	126	136.8
107	107.3	127	61.7
108	98.8	128	108.8
109	113.5	129	97.0
110	75.3	130	64.6
111	73.5	131	27.1
113	78.2	132	42.5
114	100.4	133	58.5
115	101.5	134	88.0
116	71.8	135	18.2
117	43.5	136	89.1
118	81.0	137	43.5
119	43.5	138	83.3
120	43.5		<u>1213.6</u>
	1357.7		<u>1357.7</u>
		Total,-	2571.3

CHEWING BOND

The Cleveland - Capps Lumber Co.
Personal Furnace
Land Purchases & Options for Year 1899

<u>Persons Trade Lands</u>					
<u>Options</u>					
Jos. Robare	$\frac{1}{2}$ of $\frac{1}{4}$ Sec. 5-41-17. Inwood Township 80 acres @ \$5.00	1000			
Gaspard Guilmette	$\frac{1}{2}$ of $\frac{1}{4}$ Sec 8-41-17 Inwood Township 80 acres @ \$5.00	1000			
Noel DeLoia	$\frac{1}{2}$ of $\frac{1}{4}$ Sec. 8-41-17 Inwood Township 80 acres @ \$5.00	1000			
Jos. St. Amant	$\frac{1}{2}$ of $\frac{1}{4}$ Sec 5-41-17 Inwood Township 80 acres @ \$5.00	1000			
Total ~		4000			
<u>Purchases</u>					
Paul Frischoel	$\frac{1}{2}$ of $\frac{1}{4}$ of Dec. 7-41-17. Inwood Township 80 acres @ \$6.00	39500			
Dom. Poupot	$\frac{1}{2}$ of $\frac{1}{4}$ of Dec 7-41-17 Inwood Township 80 acres @ \$6.00	36000			
Jos. Baron	$\frac{1}{2}$ of $\frac{1}{4}$ of Dec. 9-41-17 Inwood Township 80 acres @ \$5.00	39000			
Adolph Baron	$\frac{1}{2}$ of $\frac{1}{4}$ of Dec. 9-41-17 Inwood Township 80 acres @ \$5.00	39000			
P. Archambault	$\frac{1}{2}$ of $\frac{1}{4}$ of Dec 7-41-17 Inwood Township 80 acres @ \$5.00	39500			
Baron & Pough	$\frac{1}{2}$ of Dec. 8-41-17 Inwood Township 160 acres @ \$5.00	78000			
Total ~		271000			
Grand Total ~					275000

The Cleveland-Clipperton Co

"Crown Furnace"

Land Purchase & Options

1899

The Cleveland Cliffs Iron Company

Pioneer Furnace

Statement of Estimates and Authorization costs for year 1899

Authorization Number	Accounts	Cost to Nov 30 1899	Estimate and Authorized	Overrun	Underrun
1	5 New Double Movement Houses	4244 60	4531 10		286 50
3	Steam Pipe to Chemical Plant.	432 12	522 17		90 05
4	Locomotive	3043 75	2995 30	48 45	
5	Addition to connect Smoke Main	197 04	203 50		6 46
6	Fan	144 61			
	Fan Base	55 20			
	Fan Belt	38 00	412 50		13 79
	Rescating and Setting Fans	160 90			
7	Squeeze	769 48	770 24		76
8	Chemical Engine	1379 67			
	Chemical Engine Foundation	128 03			
	Chemical Heater	240 93	2557 50		104 20
	Buckley Condenser	125 00			
	Shafting	579 67			
9	Rebuilding Movement House	150 00	150 00		
10	Parsons Railway Extension	4128 52	4841 21		712 69
10 1/2	One Column	1059 92	1000 00	59 92	
✓ 11	Extension of Office	517 00	517 00		
12	Three Columns	3502 70			
	Smoke Main Extension	606 23			
	Primary Condensers	1192 23			
	Primary Stills	540 95	10024 60		616 11
	Drain Pipe	46 80			
	Ovens	93 23			
	Addition to Building	7 41			
	Smoke Condensers	3418 94			
✓ 13	Locomotive House Extension	258 59		258 59	
✓ 14	Cinder Derrick	183 46		183 46	
✓ 15	Condenser Pipe Line	377 39		377 39	
✓ 16	Crusher	821 15			
	Crusher Installing	44 41			
	Crusher Engine	521 50			
	Crusher Foundation	87 10			
	Crusher Engine Foundation	82 68			
	Crusher Engine Building	167 11			
	Crusher Engine Installing	125 38			
	Crusher Elevator Building	375 00	4457 35		398 80
	Crusher Conveyor Machinery	499 76			
	Crusher Conveyor Machinery Installing	75 95			
	Crusher Belting Pulleys & Shafting	189 33			
	Crusher Piping	45 08			
	Crusher Ore Pocket	179 10			
	Crusher Ore Hottle Extension	845 00			
✓ 17	Boat House	96 45		96 45	
✓ 18	Furnace Track Scales	761 20			
	Scale Installing	35 09	1142 73		
	Scale Foundation	346 44			
✓ 19	Boiler	1803 96			
	Boiler Feed Pump	419 75			
	Boiler Stack & Gas Down Take	911 40	3831 62		
	Boiler Foundation	82 55			
	Boiler Belting	613 96			
✓ 20	Jacket & Water Trough	1519 35	1519 35		
21	Artesian Well	227 11	227 11		
22	Lar Tanks	153 59		153 59	
23	Acetate Storage House	216 20		216 20	
24	Acetate Fire Wall	144 90		144 90	
✓ 25	Coal Shed	29 17		29 17	
Total		39042 04	39703 28	1568 12	2229 36

The Cleveland Bluffs Iron Co.

Pioneer Furnace

Book of Estimates + Authorizations Book for

Year 1899.

The Cleveland-Cliffs Iron Co.

PIONEER FURNACE.

Statement of Fire Insurance 1899

No. of Policy	Company	Time Insured	Expiration	Property Insured	Location	Amount of Ins	Rate	Time	Premium Paid	Premium Accrued	Losses	
10006	Land, Land & L.	3 years	Dec. 1st 1900.	Manager's Residence	Gladstone	5000 00	1 1/2	3 yrs.			25 00	None
389	Favorit	3 "	Dec. 1st 1900.	Founder's Cottage	Furnace	1500 00	1 1/2	3 "			7 50	"
1285929	N. D. & M.	3 "	Dec. 1st 1900.	Office	Furnace	1000 00	3	3 "			10 59	"
20392	Underwriters	3 "	Dec. 1st 1900.	5 Double Dwellings	Furnace	3500 00	2	3 "			23 30	"
10013	Land, L. & L.	3 "	Dec. 1st 1900.	5 Double Dwellings	Furnace	3500 00	2	3 "			23 30	"
42843	N. F. A.	3 "	Aug. 1st 1901.	Machine Shop Building	Furnace	1400 00	5 6/10	3 "			26 25	"
10052	Land, Land & L.	3 "	Aug. 29th 1901.	Barn	Furnace	1000 00	4	3 "			13 33	"
2195561	F. L. of Phila	3 "	Nov. 1st 1901	4 Double Dwellings	Furnace	*2800 00	2	3 "	70 00		23 33	\$700.00
4346	Home	1 "	Jan. 30th 1900	38 Charcoal Cars	Furnace	2800 00	3	1 "	114 00		114 00	None
2376254	Manchester	3 "	Feb. 7th 1902	1 Double Dwelling	Furnace	*700 00	2	3 "	14 00		4 66	"
2432585	N. D. & M.	3 "	May 13th 1902	Chris's House	Gladstone	1000 00	1 1/2	3 "	15 00		5 00	"
2432585	N. D. & M.	3 "	May 13th 1902	West Mechanic's House	Gladstone	1000 00	1 1/2	3 "	15 00		5 00	"
2432585	N. D. & M.	3 "	May 13th 1902	Barn Door House	Gladstone	500 00	1 1/4	3 "	6 25		2 08	"
2376316	Manchester	1 "	Dec. 5th 1900	Levin's Storage House	Furnace	800 00	2	1 "	16 00		16 00	"
10087	Land, Land & L.	1 "	Dec 22d 1899	Machinery & Locomotive	Furnace	3500 00	2 1/4	1 "	78 75		78 75	"
2213	Phoenix	1 "	Dec 22d 1899	Machinery & Locomotive	Furnace	3500 00	2 1/4	1 "	78 75		78 75	"
Total						34500 00			407 45		456 84	

Original policy before the one dwelling destroyed called for 5 Dwellings ~ Amount \$3500.00 covering House rebuilt.

23 33
46 6
46 6
74 6

20

The Cleveland-Cliffs Iron Co.
PIONEER FURNACE

Statement of Fire Insurance 1890

THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE

Comparative Statement of Furnace General Expenses for Years 1898 & 1899

	--0--	1899	1898
Manager	1	4999.93	3999.96
Bookkeeper	1	1500.00	1475.00
Clerk	1	780.00	762.50
Stenographer	1	675.00	685.00
Chief Engineer	17	1525.00	1320.00
Barn Boss	13	600.00	600.00
Extra Clerk, "Yearly Work"	5	195.00	
Stationery & Printing	2	271.23	301.58
Legal			31.10
Telephones & Telegrams	6	276.14	419.25
Petty Office Expense	5	15.90	24.27
Exchange	14	76.55	69.65
Freight & Express	5	13.12	13.87
Launch	21	310.06	145.75
Fire Insurance	-	241.00	252.00
Papers & Periodicals	5	8.50	17.65
Postage	3	121.30	158.40
Traveling	9	612.52	560.32
Livery	5	15.50	4.00
Stable Expense	13	258.74	254.73
Taxes	-	3528.77	2896.81
Donations	■ 14	153.10	115.90
Inventory	5	39.52	15.88
Analysis & Testing	-	2001.47	2804.28
Flag			14.77
Revenue Tax	5	33.52	15.88
Entertaining	1	6.50	20.27
Accident	■	189.30	
Small-pox case	■	50.00	
Political Expense	21	13.50	

		18510.97	-----
			16978.82

- Increase due to \$34.00 paid Top Fillers who were laid up on account of burns received by Gas Explosion.
- Account of man who lost his leg on Ore Trestle, giving him artificial leg and paying expense of nurse while laid up.
- Paid outside doctor to diagnos case.

The Cleveland Lumber Co.

Primus Furnace

Comparative Statement of Taxes for 1899 & 1898.

	1899		1898	
	Valuation	Taxes	Valuation	Taxes
Furnace Plant, Masonville Township - Real	65000.00	X 4093.53	65000.00	✓ 3350.98
" " " " Personal	10000.00	X	10000.00	
" " Gladstone, Founders' House	370.00	X 20.95	✓ 225.00	✓ 16.04
Limestone Quarry, Masonville Township	25.00	X 1.36	25.00	✓ 1.14
Gladstone City Lots, Gladstone	6160.00	X 425.71	✓	444.94
Managers House	1355.00	X 86.02	✓ 1054.00	✓ 75.10
Clerks House	500.00	X 31.73	✓ 377.00	✓ 26.91
Master Mechanics House	530.00	X 33.65	✓ 420.00	✓ 57.16
Barn Boss House	300.00	X 19.09	✓ 270.00	✓ 19.22
Personal Property Gladstone, Mo.	8,330.00	X 20.95	✓ 75.00	✓ 5.36
Total	78470.00	4732.99	77446.00	3996.85
Ford River Kilns	1600.00	79.33	1600.00	67.94
" " Wood	1200.00	62.10	1200.00	55.90
Felch Mh. Kilns	1000.00	41.82	1000.00	25.64
" " Wood				
Total	3800.00	183.25	3800.00	149.48
Inwood Township, Sect. 2	1625.00	87.59	1625.00	84.25
" " 3	1700.00	91.64	1800.00	93.32
" " 4	1625.00	79.38	1800.00	93.32
" " 5	1700.00	83.05	1850.00	95.90
" " 7	325.00	15.88	1300.00	67.40
" " 7	325.00	15.88		
" " 7	325.00	15.88		
" " 8	1475.00	79.50	1550.00	80.35
" " 9	1350.00	72.78	1500.00	77.77
" " 10	1800.00	97.02	1800.00	93.31
" " 18	1310.00	63.99	1310.00	67.90
" " Wood 15000 cords 1899	4500.00	242.54	5100.00	264.39
" " Wood 17000 cords 1898				
Total	18060.00	945.13	19635.00	1017.91
Garden Township, Sec. 12, S.E. 1/4	1600.00	10.12	3600.00	14.26
" " 1899	640.00	40.55	1440.00	57.03
" " Wood None				
Total	800.00	50.67	1800.00	71.29
Harrison Township Sec. 28	1920.00	63.99	1920.00	41.42
" " 32 E. 1/2	960.00	32.00	960.00	20.70
" " 32 E. 1/2 of W. 1/2	480.00	15.98	480.00	10.35
" " 32 N.W. 1/4 of N.W. 1/4	120.00	3.99	120.00	2.59
" " 33	1920.00	63.99	1924.00	41.50
Total	5400.00	179.95	5404.00	116.56
Grand Total	106470.00	6091.99	108085.00	5352.09

1014.91
11.27
116.56
2205.76

1899

1898

31.73
 33.65
 183.25
 945.13
 50.67
 179.95
~~1029.58~~
 3528.77
 713.13
 425.71
 6091.99

22
 Make Home
 New
 Kira
 Edward H.
 Gordon
 Harmon
 See
 Kim
 Beale

The Cleveland Cliff Iron Co.

Pioneer Furnace

Comparative Wood Report for years ending Nov. 30/98 + Nov. 30/99 -

<u>Wood Received</u>	<u>1898</u>	<u>1899</u>
Inventory Dec '97 + Dec '98	3173 ⁰⁸	3586 ¹⁶
From Parsons	42487	35631
" Section 27	1054 ¹⁶	1323 ¹⁶
" Jobbers	57 ¹⁶	524 ²⁴
Total rec'd at Furnace	46772 ⁰⁸	41065 ²⁴
<u>Wood Consumed</u>		
Burned in Kilns	38950 ²⁴	33566 ²⁴
" at Chemical Plant	357500	2289 ⁰⁸
" " Acetate Plant	407	400
" " Furnace	116	533 ²⁴ #
" by Locomotive	3	2
Sold to Tenants	134	172 ¹⁶
Total Consumed	43185 ²⁴	36964 ⁰⁸
Inventory Dec. 1st	3586 ¹⁶	4101 ¹⁶

*244 cords of this amount was used while Re-lining Furnace and to dry stack

The Cleveland Cliffs Iron Co.

Pioneer Furnace

Comparative Wood Report

1898 — 1899

The Cleveland Bluff Iron Co
Pioneer Furnace
Accounts Receivable

November 30th 1899

Soo Line	2043	
John Hancock.	13700	
H Bowman	12500	
Superior Charcoal Iron Co	5085	
Gladstone Delta	745	
Justin Farrell	422	
C V R Townsend	941	
Geo J Blining	869	
Church	700	
H C Truck Co	936	
E M Davies	562	
W E Saunders	2040	
Rd. Winslow	762	
E Warren	100	
Sew Cates	635	
Louis Jerome	1720	
J P Souman	470	
Iron Bluffs Co		6042
D Doupou.	31843	
P Hubscher.	30843	
Oliver Hall	225	
J H Noble	50	
Naugle Holcomb + Co	467	
Standard Oil Co	592	
American Tube Works	4376	
H H Vancler	2340	
Garth Lumber Co	1390	
R P Mason Eng Opida	1084	
James Hannegan	875	
Best + Co + Co	57750	
A H Powell.	625	
Charles Braut	60	
Homborg + Co	5920	
Joe Schiska	25907	
A B McArthur	264	
Joe Baron	30000	
A. Baron	30000	
P Archambault.	37287	
Baron + Rough.	60000	
Parsons Job Choppers	4945	
John Smith	320	
A Nicholas	100	
Homborg Men	8480	
Whitehill Store Account.	4040	
N W Cooperage Company	1320	
	385333	6042

The Cleveland Cliffs Iron Co

Pioneer Lumber

Accounts Receivable

November 30th 1899

The Cleveland Cliff Iron Co

Pioneer Furnace

List of Unpaid Vouchers

November 30th 1899

Voucher No.	In favor of	Amount
3506	American Electric Co.	1889
3507	H W Blackwell	131
3508	The Bristol Co	600
3509	C & N W Ry Co	32175
3510	Chicago Lumbering Co of Mich	648
3511	Crane Co	899
3512	Chicago Belting Co	270
3513	Cocanabat & Hadstonehaus Co	6577
3514	W J Ely Plumbing Co	341
3515	Ed Erickson	2185
3516	D & R H Rosyth	12600
3517	Harbank's Horse & Co	1404
3518	The Gladstone Delta	350
3519	Gladstone Waterworks	1320
3520	Gladstone Steam Laundry	54
3521	A J Ganson	925
3522	A Gainache	1596
3523	J M Hansells Sons	710
3524	B A Lawton & Co	20
3525	Lunkenheimer Co	701
3526	Amos McCastle	3523
3527	W J Nicko	600
3528	J H Murphy	440
3529	Machinery Supply Co	2081
3530	Montgomery Ward & Co	1750
3531	W. A. Miller	350
3532	Neil Bridge & Grading Co	11638
3533	Neil Brass & Copper Works	1520
3534	M & O Ste in Ry Co	992
3535	M & O Ste in Ry Co	195
3536	W & R Cooperage & Lumber Co	1320
3537	W R Oliver	1500
3538	D A Oliver	4250
3539	W S Picotte in D	5000
3540	Postal Tel Cable Co	2381
3541	Smith Premier Pipe Co	125
3542	F Sheedlo & Bros	400
3543	J E Swift Co	1566
3544	D B Trinnegar	1000
3545	Radhaus Oil & Grease Co	1095
3546	Antoine Prathey	667
3547	Various Men	3861
3548	J H Noble	4215

Audit Ward

115814

The Cleveland Blast Iron Co
Pioneer Furnace
List of Unpaid Vouchers
November 30th 99.

The Cleveland Cliff Iron Co

Pioneer Furnace

List of Unpaid Vouchers

November 30th 1899

<u>Voucher No.</u>	<u>In favor of.</u>	<u>Amount</u>
	Aunt Post Ford	
3549	Gilbert Olson	1155 14
3550	Carou + Rough	256 26
3551	Cyr Bros	1947 49
3552	Burrell Chemical Co	1592
3553	E P Craney + Son	3541 60
3554	Madrau Bros	7080
3555	Mr Geo D Loughary	840
3556	Dishman Bros	6600
3557	Wm Bellefeuil	42360
3558	Frank Kitch	39240
3559	Ross Bros	7800
3560	McDeron	20760
3561	Cyr Bros	19610
3562	The Gladstone Tribune	37410
3563	O L Merty	150
3564	American Express Co	355
3565	Western Express Co	1026
3566	Austin Farrell Mangr	175
3567	Masonville Township Taxes	5130
3568	Garden Township Taxes	409489
3569	Inwood Township Taxes	5067
3570	Harrison Township Taxes	94513
3571	Gladstone City Taxes	17995
3572	Ford River Township Taxes	60560
3573	Iron Cliff Co "Land left"	6210
		7933

As per Trial Balance November 30th 99

1482244

The Cleveland Cliffs Iron Company

Pioneer Furnace

Trial Balance

November 30th 1889

Furnace General Expense.

1851097

Salaries	10 274 93
Stationery and Printing	271 23
Telephone and Telegraph	276 14
Exchange	76 55
Entertaining	6 50
Petty Office Expense	15 90
Freight and Express	13 12
Fire Insurance	241 00
Postage	121 30
Papers and Periodicals	8 50
Travelling Expenses	612 52
Livery	15 50
Stable Expense	258 74
Gases	3528 77
Donations	153 10
Analysis and Testing	2001 47
Political Expense	13 50
Revenue Tax	33 32
Launch	310 06
Accident	189 30
Inventory	39 52
Small Tools Cases	50 00

Furnace Maintenance

606552

Tracks and Yard	366 57
Crustles and Dock	272 56
Buildings	443 24
Machinery	638 86
Tools	378 05
Repairs and Renewals	3118 00
Water Supply	167 81
Hoist	126 82
Stack	12 03
Dust Catcher	21 47
Dwellings not rented	222 58
Coal Buggies	71 60
Ore Buggies	26 75
Pig Iron Trucks	56 32
Stack House 4 floor 26	142 86

Furnace Operating

Machinery	280704
Hoist	1497
Electric Lights	55360
Bottom Fillers	654036
Top Fillers	203975
Handling Iron	395045
Handling Cinder	243998
Weighting and Grading Iron	37810
Foundry Keepers + Helpers	629631
Coal Workers	509141
Casting Tools	43850
Sand and Clay	120657
Ore	9461881
Charcoal	14339061
Limestone	273798
Loading Cars	130502
Loading Vessels	233709
Switching	33623
Depreciation of New Construction	1559000
Depreciation	864321

30071599

Chemical General Expense

Office Expense	2426
Fire Insurance	137520
Analysis	63729
Gasces	71313

274988

Chemical Maintenance

Pumps and Boilers	70545
Condensers	43459
Tanks and Stills	164664
Buildings	76544
Engines	842
Gears and Pulleys	16867
Painting Stack	2500
Smoke Pipes	96264
Primary Stills	52668
Water Trough	24813
Cleaning Up	14925
Primary Condensers	3797

567888

Chemical Operating

Fuel	461919
Lime	361013
Chemicals	28955
Barrels	292039
Electric Light	21482
Switching	5401
Stillment	290108
Firesmen	218954
Superintendent	150000
Engine and Pumps	34261
Depreciation - New Construction	455760
Boilers	4977
Loading	4189
Fire Protection	13005
Depreciation - Improvement	1019771

3359834

Acetate General Expense

Office Expense	641
Analysis	10987
Fire Insurance	1596

13224

Acetate Maintenance

Building	1774
Ovens	12080
Tanks	10210

24064

Acetate Operating

Raking	147744
Shunting	91164
Firing	6320
Fuel	82353
Loading	7379
Storing	9593
Sacks	67876
Electric Light	3240
Switching	3525
Depreciation - New Construction	12540
Depreciation - Improvement	89667

521401

The Cleveland Bluff Iron Company

Pioneer Furnace

Side Ledger

Trial Balance

November, 1899

The Cleveland Cliffs Iron Co
Pioneer Furnace.

Trial Balance
Improvement.

December 1899

Furnace Improvement.

Furnace

New Scale Foundation	17322	✓	E. W 18
Scale Installing	1755	✓	" "
Jacket and Water trough.	75967	✓	" 10.
Boiler	90198	✓	
.. Feed Pumps	20988	✓	
.. Stack + Gas Down Take	45570	✓	E. W 19
.. Foundation	4127	✓	
.. Fittings	30698	✓	19 1581

Brusher

.. Installing	2220	✓	
.. Engine	26075	✓	
.. Foundation	4355	✓	
.. Engine Foundation	4134	✓	
.. Building	8355	✓	E. W 16
.. Installing	6269	✓	
.. Elevator Building	18750	✓	
.. Conveyor Machinery	24988	✓	
.. Conveyor Machinery Installing	3798	✓	
.. Belting Pulleys + Drafting	9466	✓	
.. Piping	2254	✓	
.. Ore Pockets	8955	✓	
.. Ore Trestle Extension	42250	✓	

Condenser Pipe Line	18870	✓	E. W 15
Cinder Derrick	9173	✓	E. W 14
Locomotive House Extension	12929	✓	" 13
Coal Sheds	1459	✓	" 15
Boat House	4822	✓	" 17
Office Extension	25850	✓	" 11

562655

Penement Houses

Site Clearing	11302	✓	
Sidewalk	22180	✓	
Well	54719	✓	
Fence	16022	✓	
Five New Houses	424460	✓	
Rebuilding one house	15000	✓	

(destroyed by fire)

543683

The Cleveland Cliffs Iron Co
Pioneer Furnace

Trial Balance
Improvement

December 1899

Furnace Improvement. Cont'd

Section 27 Railway

61 51

61 51

Kilns

Pipe Line

133 09 ✓

Charcoal Trach.

12 57 ✓

Construction

5881 24 ✓

6026 90

Total as per Trial Balance

17151 79

Chemical Improvement E.A

Heater

(8) X

120 47 ✓

Engine Foundation

(8) X

64 01 ✓

Engine

(8) X

689 84 ✓

1 Column

10 1/2 X

529 96 ✓

3 Columns

12 X

1751 35 X

Addition to connect Smoke Main

(5)

98 52 ✓

Buckley Condenser

(8) X

62 50 ✓

Han

X

72 30 ✓

Han Case

X

27 60 ✓

Han Belt

6 X

19 00 ✓

Reseating & Setting Hams

X

80 45 ✓

Steam Pipe Line

(3) ✓

276 06 ✓

Tar Tank

✓

76 80 ✓

Shafting

8 X

289 83 ✓

Primary Condensers

(12) X

596 12 X

Smoke Condensers

(17) X

1709 47 X

Primary Stills

12 X

270 47 X

Squeeze

(7) ✓

384 74 ✓

Artesian Well

✓

113 55 ✓

Smoke Main Extension

(14) X

303 12 X

Total as per Trial Balance

7476 16

Acetate Improvement

E.A

Storage House

H.

108 10 -

Drain Pipe

12 } Total cost 1899
46.80

23 40 -

Ovens

12 } Total cost 48.23

46 62 -

Addition to Building

12 } Total cost 741

37 0 -

Fire Wall

72 45 ✓

Total as per Trial Balance

245 27

The Cleveland Cliffs Iron Co

Pioneer Furnace

Trail Balance December 1899

Improvement.

The Cleveland Cliffs Iron Co

Pioneer Furnace

Trial Balance.

December 1899

Equipment

Carts Wagons + Horses	1 193 29
Charcoal Cars	3 808 68
Coal Buggies	3 711 16
Launch	4 872 24
Charcoal from Cars	1 350
Scales	1 320 48
Phones	3 850
Machine Shop Machinery	1 324 65
Smith Shop Machinery	5 084 0
Office Furniture and Fixtures	5 930 5
Ore Barrows	2 540 7
Locomotives	3 442 11
Wheeled Barrows	6 227
Laboratory	3 926 5
Big Iron Loader	2 578 1
Furnace Scow	1 016
Brown Pyrometer	5 270
Testing Machine	5 038 6
Big Iron Trucks	1 270 63

1590521 ✓

The Cleveland Cliffs Iron Company.

Pioneer Furnace.

Trail Balance. December 1899

Equipment

The Cleveland Cliffs Iron Co

Pioneer Furnace

New Construction Trial Balance November 30th 1899

	<u>Balance</u> <u>Dec 1st 1898</u>	<u>Sunk off.</u> <u>During Year</u>	<u>Balance</u> <u>Dec 1st 1899</u>
<u>Furnace</u>	13286077	1559000	11727077 ✓
<u>Chemical Plant</u>	3190276	455760	2734516
<u>Acetate Plant</u>	100414	12540	87874 ✓
<u>Kilns</u>	1970933	177325	1793608 ✓
<u>Parsons Railway</u>	230320	176544	478623
<u>addition 1899 \$4248.47</u>			
<u>Rented Houses</u>	930185	187335	742850 ✓
	<u>19708205</u>		
		<u>2568504</u>	
			<u>17564548</u>

The Cleveland Bluff Iron Co
Pioneer Furnace

Reconstruction
Trial Balance

November 1899

STATEMENT OF COAL PURCHASED

During Year Ending Dec. 31st. 1899.

F. O. B. M I N E S.

<u>N A M E.</u>	<u>Grade</u>	<u>Tons</u>	<u>Pounds</u>	<u>prices</u>	<u>Amt.</u>
Pickands, Mather & Co.,	3-4	822	400	2.45	2014.39
" " "	"	1545	600	2.55	3940.53
" " "	"	1057	300	2.65	2801.45
" " "	"	2866	400	2.75	7882.05
" " "	"	2464	20	2.50	6160.00
" " "	"	65	1800	2.63	173.31
" " "	"	1540	100	2.50	3850.13
" " "	Slack	749		1.90	1423.10
" " "	"	801	700	1.95	1562.64
" " "	"	1618	1600	2.00	3237.60
" " "	" ,	464	650	2.10	975.08
" " "	"	1458	400	2.20	3208.04
" " "	1 1-4	971		2.80	2718.80
Cuddy-Mullen Coal Co.,	3-4	1961	1200	2.37	4648.99
" " " "	"	374	1650	2.47	925.81
" " " "	"	1022	550	2.57	2627.24
" " " "	"	172	550	2.67	459.97
" " " "	"	510	1620	3.27	1670.36
" " " "	"	524	1200	3.87	2030.20
" " " "	Slack	2534	850	1.90	4815.41
" " " "	"	1085	1050	2.00	2171.05
" " " "	"	413	1000	2.10	868.35
" " " "	"	1127	700	2.20	2480.17
" " " "	"	514	100	3.40	1748.28
Youghiogheny River Coal Co.,	3-4	2402	1350	2.40	5748.12
Pittsburgh & Chic'o Gas&Coal Co.	"	1600	850	3.05	4881.29
" " " " " "	"	84	1000	4.35	207.57
" " " " " "	"	600	300	4.25	2550.63
Total Lake Delivery,		31352	940	2.48	77780.56

-S U M M A R Y-

Pickands, Mather & Co.,	1 1-4	971		2.80	2718.80
" " "	3-4	10360	1620	2.59	26821.86
Cuddy-Mullen Coal Co.,	"	4566	770	2.71	12362.57
Youghiogheny R. C. Co.,	"	2402	1350	2.40	5748.12
Pitts'h & Chicago Gas & Coal Co.,	"	2285	150	3.34	7639.49
Total 3-4 & 1 1-4,		20585	1890	2.69	55290.84
Pickands, Mather & Co.,	Slack	5091	1350	2.04	10406.46
Cuddy-Mullen Coal Co.,	"	5674	1700	2.13	12083.26
Total Slack,		10766	1050	2.09	22489.72

COAL BOUGHT FROM JAS. PICKANDS & CO.
MARQUETTE.

- NAME -	Grade	Tons	Pounds	Price	Amount
Jas. Pickands & Co.,	3-4	247	500	2.85	704.67
	1 1-4	139	1600	2.575	360.55
	"	78	540	3.15	246.55
	"	209	1650	2.825	592.76
	"	200	870	2.625	526.14
	"	128	1300	3.35	430.98
	"	15	560	3.45	52.72
	"	69	800	3.55	246.37
	"	55		3.65	200.75
	3-4	426	1900	3.65	1558.37
	"	34	1500	3.65	126.84
"	405	120	4.05	1640.49	
total Local Purchases,		2010	1340	3.33	6687.19
Total Lake Purchases 3-4 & 1 1-4		20585	1890	2.69	55290.84
Total Lake Purchases Slack,	slack	10766	1050	2.09	22489.72
Total Lake Purchases,	3-4&1 1-4	2010	1340	3.33	6687.19
GRAND TOTAL,		33363	280	2.53	84467.75

The Cleveland-Cliffs Iron Co.

Coal Purchased for Mines - 1899.

N A M E -

Grade

Loose

Pounds

Price

Amount

COAL BOUGHT FROM THE DELCO AND S. W. CO.

Coal Purchased for Mines - 1899.

Grade

Loose

Pounds

Price

Amount

Total Loose Purchases:

"	3-8	402	180	4.02	1840.18
"	"	24	1200	2.32	156.84
"	3-8	450	1800	2.62	1828.24
"	"	22	900	2.92	500.42
"	"	98	990	3.82	548.24
"	"	12	990	3.42	128.48
"	"	138	1200	3.22	420.82
"	"	800	840	3.82	288.14
"	"	808	1020	3.32	208.16
"	"	138	240	3.12	848.22
"	1-4	133	1800	3.22	320.92
"	3-4	24	200	3.22	104.84
Total		3010	1240	2.22	6881.18

Total Loose Purchases 3-4 & 1-4 3010

Total Loose Purchases Slack:

3-4 & 1-4	3010	1240	2.22	6881.18
Slack	1078	1020	3.02	8848.18
	8028	1880	3.02	28250.84

GRAND TOTAL:

3828

880

5.22 84481.18

CLEVELAND IRON MINING CO. and IRON CLIFFS CO.

Comparative Report From Summary of Labor Statements for the Years 1899 & 1898.

SURFACE. Name of Mine.	Rate per Day		Product per man per day		Cost per Ton		Total Product.	
	1899	1898	1899	1898	1899	1898	1899	1898
Hard Ore for 2 mos.	1.72	1.48	1.49	1.27	1.25	1.164		
Lake 12 "	1.74	1.60	19.82	19.84	.088	.081		
Volunteer 7 "	1.87		4.43		.422			
Imperial 6 "	1.80		9.72		.185		2012	
Michigamme 2 "	1.76							
Cliffs Shaft 12 "	1.70	1.60	9.49	8.85	.178	.180		
Salisbury 12 "	1.676	1.64	8.84	5.91	.190	.277		
Foster 12 " <i>28 days</i> (2.65)	2.65	1.61		10.04		.161		
Tilden 8 "	1.78	1.67	6.27	7.71	.234	.220	27345	50833
Explorations 47-27	3.08	2.26						
Total Surface	1.74	1.61	9.73	10.28	.179	.156	29357	50833
UNDERGROUND								
Hard Ore for 2 mos.	2.04	1.83	2.63	2.69	.752	.679	8992	10651
Lake 12 "	2.15	1.96	3.76	3.91	.573	.498	465452	440090
Volunteer	2.19		3.41		.642		32243	
Imperial 5 "	2.00		7.66		.261		23563	
Cliffs Shaft 12 "	1.994	1.83	3.85	3.89	.519	.471	252161	181844
Salisbury	2.24	2.06	3.57	3.02	.627	.633	136519	111481
Foster		1.90		4.31		.441		36391
Total underground	2.12	1.94	3.77	3.99	.562	.486	918930	780457
GENERAL								
Cleveland Iron Mining Co.	4.18	3.77						
Iron Cliffs Co.	4.64	3.97						
Total general	4.33	3.86						
OUTSIDE PARTIES								
Cleveland Iron Mining Co	1.90	1.82						
Iron Cliffs Co.	2.01	1.43						
Total outside parties	1.90	1.80						
Total C.I.M.Co. & I.C.Co.	2.05	1.88	2.72	2.80	.751	.673	948287	831290
TOTAL BY MINES.								
Hard Ore for 2 mos.	1.78	1.59	1.00	.863	1.877	1.843	8992	10651
Lake 12 "	2.09	1.89	3.16	3.27	.661	.579	465452	440090
Volunteer 7 "	2.05		1.93		1.064		32243	
Imperial 6 "	1.91		4.48		.426		25575	
Michigamme 2 "	1.76							
General 12 "	4.18	3.77						
Total C.I.M.Co	2.08	1.90	2.75	3.01	.754	.632	532262	450741
Cliffs Shaft 12 mos.	1.908	1.76	2.74	2.70	.698	.651	252161	181844
Salisbury 12 "	2.07	1.92	2.54	2.00	.816	.962	136519	111481
Foster 12 "	2.65	1.81		3.01		.602		36391
Tilden 8 "	1.78	1.67	6.27	7.71	.284	.22	27345	50833
Explorations 47-27, 12 mos.	3.08	2.26						
General 12 "	4.64	3.97						
Total I. C. Co.	2.01	1.86	2.72	2.63	.739	.707	416025	380549
Total outside parties	1.90	1.80						
Total C.I.M.Co & I.C.Co.	2.05	1.88	2.72	2.80	.751	.673	948287	831290

Summary of Supplies used during year ending November 30th 1899

Product	Cleveland Iron Mining Co				Iron Cliffs Co									
	Hard Ore		Lake		Volunteer		Imperial		Michigan		Cliffs Shaft		Salisbury	
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
Product 1899	8997 Tons		465457 Tons		32443 Tons		25575 Tons		No Tons		257161 Tons		136519 Tons	
Product Last Year 1898	10651 "		44090 "		No "		No "		" "		181844 "		111481 "	
General Supplies	3661.11341062		5377.03012012		1554.63048		575.45023		8.89		7258.37029037		2246.58017014	
Iron & Steel	1469.71164020		3901.75008006		746.90024		772.51011		10.10		1908.79008014		1909.53014020	
Oil & Grease & Handles	289.81032000		3012.20009006		599.53019		746.000		276		2470.48010011		1022.01009011	
Machinery Supplies	7581.01843080		5171.76011005		1906.17059		1866.53073		1851.85		9338.10037066		2032.59014059	
Building Material	4126.85459034		3853.74008004		2432.4008		731.16029		775.93		3304.36014025		2635.65019054	
Explosives	827.38092		1210.952026025		1987.35062		612.61023				16388.29064050		1699.81013023	
Mine Timber			2165.164047043		5877.000						2721.0000001		6162.66025044	
Fuel	7792.61866003		2599.47027022		6824.16212		1527.70061				2739.176069080		8759.24062080	
Wagon	419.28046025		190.45000001				175.19007				60.70001		646.37005004	
Sundries	1429.35161036		1356.07003004		753.09023		588.54023		277.70		1744.81009023		921.96008022	
Total 12 mos 1899	29019112004		6922563149		1467331455		639629250		299373		6013777238		2808620206	
Total Last Year 1898	276901		2605619758		128						5601876		308	

Supplies charged to the following accounts

	Hard Ore		Lake		Volunteer		Imperial		Michigan		Cliffs Shaft		Salisbury	
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
General Expense	3690004		35171007001		1375000		8879003				6045000001		12910001001	
Maintenance	125006139073		8747790188011		2220007		31984013				491094019010		246228018010	
Mining Expense	266386296		5684177122106		71265922		253502099				3966961158131		1891164139152	
Exploratory					000						558678027012		001	
Loading & Shipping	05000		35440001001		1242		285				202735008014		5564000	
Improvement	342659382										63474002026			
New Construction	17752824924		72000001		727371226		344979136		299373		30382001024			
Rips Rented Houses	32753037059										61833002003		26648002001	
Land Improvement	15264016032										301000			
Supply Equipment	27926031055		86790001001								392827016042		38985003001	
New Shaft			309013007009								000		587121043165	
Miscellaneous	112947125041				2537						239452010045			
Total 12 mos 1899	29019112004		6922563149		1467331455		639629250		299373		6013777238		2808620206	
Total Last Year 1898	276901		2605619758		128						5601876		308	

C. M. Co. & L. Co.

Summary Supplies used

year ending Nov 30 1899

General		Administrative		Educational		Miscellaneous	
Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
100	100	50	50	200	200	100	100
200	200	100	100	300	300	200	200
300	300	150	150	400	400	300	300
400	400	200	200	500	500	400	400
500	500	250	250	600	600	500	500
600	600	300	300	700	700	600	600
700	700	350	350	800	800	700	700
800	800	400	400	900	900	800	800
900	900	450	450	1000	1000	900	900
1000	1000	500	500	1100	1100	1000	1000
1100	1100	550	550	1200	1200	1100	1100
1200	1200	600	600	1300	1300	1200	1200
1300	1300	650	650	1400	1400	1300	1300
1400	1400	700	700	1500	1500	1400	1400
1500	1500	750	750	1600	1600	1500	1500
1600	1600	800	800	1700	1700	1600	1600
1700	1700	850	850	1800	1800	1700	1700
1800	1800	900	900	1900	1900	1800	1800
1900	1900	950	950	2000	2000	1900	1900
2000	2000	1000	1000	2100	2100	2000	2000
2100	2100	1050	1050	2200	2200	2100	2100
2200	2200	1100	1100	2300	2300	2200	2200
2300	2300	1150	1150	2400	2400	2300	2300
2400	2400	1200	1200	2500	2500	2400	2400
2500	2500	1250	1250	2600	2600	2500	2500
2600	2600	1300	1300	2700	2700	2600	2600
2700	2700	1350	1350	2800	2800	2700	2700
2800	2800	1400	1400	2900	2900	2800	2800
2900	2900	1450	1450	3000	3000	2900	2900
3000	3000	1500	1500	3100	3100	3000	3000
3100	3100	1550	1550	3200	3200	3100	3100
3200	3200	1600	1600	3300	3300	3200	3200
3300	3300	1650	1650	3400	3400	3300	3300
3400	3400	1700	1700	3500	3500	3400	3400
3500	3500	1750	1750	3600	3600	3500	3500
3600	3600	1800	1800	3700	3700	3600	3600
3700	3700	1850	1850	3800	3800	3700	3700
3800	3800	1900	1900	3900	3900	3800	3800
3900	3900	1950	1950	4000	4000	3900	3900
4000	4000	2000	2000	4100	4100	4000	4000
4100	4100	2050	2050	4200	4200	4100	4100
4200	4200	2100	2100	4300	4300	4200	4200
4300	4300	2150	2150	4400	4400	4300	4300
4400	4400	2200	2200	4500	4500	4400	4400
4500	4500	2250	2250	4600	4600	4500	4500
4600	4600	2300	2300	4700	4700	4600	4600
4700	4700	2350	2350	4800	4800	4700	4700
4800	4800	2400	2400	4900	4900	4800	4800
4900	4900	2450	2450	5000	5000	4900	4900
5000	5000	2500	2500	5100	5100	5000	5000
5100	5100	2550	2550	5200	5200	5100	5100
5200	5200	2600	2600	5300	5300	5200	5200
5300	5300	2650	2650	5400	5400	5300	5300
5400	5400	2700	2700	5500	5500	5400	5400
5500	5500	2750	2750	5600	5600	5500	5500
5600	5600	2800	2800	5700	5700	5600	5600
5700	5700	2850	2850	5800	5800	5700	5700
5800	5800	2900	2900	5900	5900	5800	5800
5900	5900	2950	2950	6000	6000	5900	5900
6000	6000	3000	3000	6100	6100	6000	6000
6100	6100	3050	3050	6200	6200	6100	6100
6200	6200	3100	3100	6300	6300	6200	6200
6300	6300	3150	3150	6400	6400	6300	6300
6400	6400	3200	3200	6500	6500	6400	6400
6500	6500	3250	3250	6600	6600	6500	6500
6600	6600	3300	3300	6700	6700	6600	6600
6700	6700	3350	3350	6800	6800	6700	6700
6800	6800	3400	3400	6900	6900	6800	6800
6900	6900	3450	3450	7000	7000	6900	6900
7000	7000	3500	3500	7100	7100	7000	7000
7100	7100	3550	3550	7200	7200	7100	7100
7200	7200	3600	3600	7300	7300	7200	7200
7300	7300	3650	3650	7400	7400	7300	7300
7400	7400	3700	3700	7500	7500	7400	7400
7500	7500	3750	3750	7600	7600	7500	7500
7600	7600	3800	3800	7700	7700	7600	7600
7700	7700	3850	3850	7800	7800	7700	7700
7800	7800	3900	3900	7900	7900	7800	7800
7900	7900	3950	3950	8000	8000	7900	7900
8000	8000	4000	4000	8100	8100	8000	8000
8100	8100	4050	4050	8200	8200	8100	8100
8200	8200	4100	4100	8300	8300	8200	8200
8300	8300	4150	4150	8400	8400	8300	8300
8400	8400	4200	4200	8500	8500	8400	8400
8500	8500	4250	4250	8600	8600	8500	8500
8600	8600	4300	4300	8700	8700	8600	8600
8700	8700	4350	4350	8800	8800	8700	8700
8800	8800	4400	4400	8900	8900	8800	8800
8900	8900	4450	4450	9000	9000	8900	8900
9000	9000	4500	4500	9100	9100	9000	9000
9100	9100	4550	4550	9200	9200	9100	9100
9200	9200	4600	4600	9300	9300	9200	9200
9300	9300	4650	4650	9400	9400	9300	9300
9400	9400	4700	4700	9500	9500	9400	9400
9500	9500	4750	4750	9600	9600	9500	9500
9600	9600	4800	4800	9700	9700	9600	9600
9700	9700	4850	4850	9800	9800	9700	9700
9800	9800	4900	4900	9900	9900	9800	9800
9900	9900	4950	4950	10000	10000	9900	9900
10000	10000	5000	5000			10000	10000

S T A T E M E N T O F C O A L P U R C H A S E D

During Year Ending Dec. 31st. 1899.

F. O. B. M I N E S.

<u>N A M E.</u>	<u>Grade</u>	<u>Tons</u>	<u>Pounds</u>	<u>prices</u>	<u>Amt.</u>
Pickands, Mather & Co.,	3-4	822	400	2.45	2014.39
" " "	"	1545	600	2.55	3940.53
" " "	"	1057	300	2.65	2801.45
" " "	"	2866	400	2.75	7882.05
" " "	"	2464	20	2.50	6160.00
" " "	"	65	1800	2.63	173.31
" " "	"	1540	100	2.50	3850.13
" " "	Slack	749		1.90	1423.10
" " "	"	801	700	1.95	1562.64
" " "	"	1618	1600	2.00	3237.60
" " "	" ,	464	650	2.10	975.08
" " "	"	1458	400	2.20	3208.04
" " "	1 1-4	971		2.80	2718.80
Cuddy-Mullen Coal Co.,	3-4	1961	1200	2.37	4648.99
" " " "	"	374	1650	2.47	925.81
" " " "	"	1022	550	2.57	2627.24
" " " "	"	172	550	2.67	459.97
" " " "	"	510	1620	3.27	1670.36
" " " "	"	524	1200	3.87	2030.20
" " " "	Slack	2534	850	1.90	4815.41
" " " "	"	1085	1050	2.00	2171.05
" " " "	"	413	1000	2.10	868.35
" " " "	"	1127	700	2.20	2480.17
" " " "	"	514	100	3.40	1748.28
Youghiogeny River Coal Co.,	3-4	2402	1350	2.40	5748.12
Pittsburgh & Chic'o Gas&Coal Co.	"	1600	850	3.05	4881.29
" " " " " "	"	84	1000	4.35	207.57
" " " " " "	"	600	300	4.25	2550.63
Total Lake Delivery,		31352	940	2.48	77780.56

- S U M M A R Y -

Pickands, Mather & Co.,	1 1-4	971		2.80	2718.80
" " "	3-4	10360	1620	2.59	26821.86
Cuddy-Mullen Coal Co.,	"	4566	770	2.71	12362.57
Youghiogeny R. C. Co.,	"	2402	1350	2.40	5748.12
Pitts'h & Chicago Gas & Coal Co.,	"	2285	150	3.34	7639.49
Total 3-4 & 1 1-4,		20585	1890	2.69	55290.84
Pickands, Mather & Co.,	Slack	5091	1350	2.04	10406.46
Cuddy-Mullen Coal Co.,	"	5674	1700	2.13	12083.26
Total Slack,		10766	1050	2.09	22489.72

COAL BOUGHT FROM JAS. PICKANDS & CO.

MARQUETTE.

<u>- NAME -</u>	<u>Grade</u>	<u>Tons</u>	<u>Pounds</u>	<u>Price</u>	<u>Amount</u>
Jas. Pickands & Co.,	3-4	247	500	2.85	704.67
	1 1-4	139	1600	2.575	360.55
	"	78	540	3.15	246.55
	"	209	1650	2.825	592.76
	"	200	870	2.625	526.14
	"	128	1300	3.35	430.98
	"	15	560	3.45	52.72
	"	69	800	3.55	246.37
	"	55		3.65	200.75
	3-4	426	1900	3.65	1558.37
	"	34	1500	3.65	126.84
	"	405	120	4.05	1640.49
Total Local Purchases,		2010	1340	3.33	6687.19
Total Lake Purchases 3-4 & 1 1-4		20585	1890	2.69	55290.84
Total Lake Purchases Slack,	slack	10766	1050	2.09	22489.72
Total Lake Purchases,	3-4&1 1-4	2010	1340	3.33	6687.19
GRAND TOTAL,		33363	280	2.53	84467.75

CLEVELAND IRON MINING CO. and IRON CLIFFS CO.

Comparative Report From Summary of Labor Statements for the Years 1899 & 1898.

SURFACE. Name of Mine.	Rate per Day		Product per man per day		Cost per Ton		Total Product.		
	1899	1898	1899	1898	1899	1898	1899	1898	
Hard Ore for 2 mos.	1.72	1.48	1.49	1.27	1.25	1.164			
Lake 12 "	1.74	1.60	19.82	19.84	.088	.081			
Volunteer 7 "	1.87		4.43		.422				
Imperial 6 "	1.80		9.72		.185		2012		
Michigamme 2 "	1.76								
Cliffs Shaft 12 "	1.70	1.60	9.49	8.85	.178	.180			
Salisbury 12 "	1.676	1.64	8.84	5.91	.190	.277			
Foster 12 " <i>23 days</i>	(2.65)	1.61		10.04		.161			
Tilden 8 "	1.78	1.67	6.27	7.71	.284	.220	27345	50833	
Explorations 47-27	3.08	2.26							
Total Surface	1.74	1.61	9.73	10.28	.179	.156	29357	50833	
UNDERGROUND									
Hard Ore for 2 mos.	2.04	1.83	2.63	2.69	.752	.679	8992	10651	
Lake 12 "	2.15	1.96	3.76	3.91	.573	.498	465452	440090	
Volunteer	2.19		3.41		.642		32243		
Imperial 5 "	2.00		7.66		.261		23563		
Cliffs Shaft 12 "	1.994	1.83	3.85	3.89	.519	.471	252161	181844	
Salisbury	2.24	2.06	3.57	3.02	.627	.633	136519	111481	
Foster		1.90		4.31		.441		36391	
Total underground	2.12	1.94	3.77	3.99	.562	.486	918930	780457	
GENERAL									
Cleveland Iron Mining Co.	4.18	3.77							
Iron Cliffs Co.	4.64	3.97							
Total general	4.33	3.36							
OUTSIDE PARTIES									
Cleveland Iron Mining Co	1.90	1.82							
Iron Cliffs Co.	2.01	1.43							
Total outside parties	1.90	1.80							
Total C.I.M.Co. & I.C.Co.	2.05	1.88	2.72	2.80	.751	.673	948287	831290	
TOTAL BY MINES.									
Hard Ore for 2 mos.	1.78	1.59	1.00	.863	1.877	1.843	8992	10651	
Lake 12 "	2.09	1.89	3.16	3.27	.661	.579	465452	440090	
Volunteer 7 "	2.05		1.93		1.064		32243		
Imperial 6 "	1.91		4.48		.426		25575		
Michigamme 2 "	1.76								
General 12 "	4.18	3.77							
Total C.I.M.Co	2.08	1.90	2.75	3.01	.754	.632	532262	450741	
Cliffs Shaft 12 mos.	1.908	1.76	2.74	2.70	.698	.651	252161	181844	
Salisbury 12 "	2.07	1.92	2.54	2.00	.816	.962	136519	111481	
Foster 12 "	2.65	1.81		3.01		.602		36391	
Tilden 8 "	1.78	1.67	6.27	7.71	.284	.22	27345	50833	
Explorations 47-27, 12 mos.	3.08	2.26							
General 12 "	4.64	3.97							
Total I. C. Co.	2.01	1.86	2.72	2.63	.739	.707	416025	380549	
Total outside parties	1.90	1.80							
Total C.I.M.Co & I.C.Co.	2.05	1.88	2.72	2.80	.751	.673	948287	831290	

Summary of Supplies used during year ending November 30th 1899

Product	Cleveland Iron Mining Co				Iron Cliffs Co			
	Hard Ore	Lake	Volunteer	Imperial	Michigan	Cliffs Shaft	Salisbury	
Product 1899	8997 Tons	46545 Tons	32243 Tons	25575 Tons	No Tons	252161 Tons	136519 Tons	
Product Last year 1898	10651 "	44090 "	"	"	"	181844 "	111481 "	
	Amount	Amount	Amount	Amount	Amount	Amount	Amount	Amount
General Supplies	3661 11 341 062	5377 03 012 012	1534 63 048	575 45 023	81 89	7258 37 029 037	2246 58 019 014	
Iron & Steel	1469 71 164 020	3901 75 008 006	746 90 024	272 51 011	1010	1908 79 008 014	1909 53 014 020	
Oil & Grease & Candles	289 81 037 000	3012 70 009 006	599 53 019	746 000	276	2470 48 010 011	1822 01 009 011	
Machinery Supplies	7581 01 843 080	5171 76 011 005	1906 17 059	1866 53 093	1851 85	9338 10 037 066	2037 59 014 059	
Building Material	4126 85 459 034	3855 74 008 004	2432 40 008	731 16 029	775 93	3304 36 014 025	7635 65 019 054	
Explosives	827 28 027	1210 95 202 025	1987 35 027	612 61 023		16388 29 064 050	1699 81 013 023	
Mine Timber		2165 16 407 043	5877 000			2721 11 000 001	6162 56 025 044	
Fuel	7794 61 866 003	12599 47 027 022	6824 16 212	1547 70 061		1739 17 06 090 80	8759 14 064 080	
Pyran	419 28 046 025	190 45 000 001		175 19 009		60 70 001	646 37 005 004	
Sundries	1449 35 161 036	1356 09 003 004	753 09 023	588 54 023	277 70	1744 81 009 023	921 96 008 027	
Total 12 mos 1899	27019 11 300	69225 63 129	14673 31 455	6396 29 250	2993 73	60137 77 238	28086 20 206	
Total Last year 1898	2769 01	26056 19 758	128			5601 87 6	308	331

Supplies charged to the following accounts

	Hard Ore		Lake		Volunteer		Imperial		Michigan		Cliffs Shaft		Salisbury	
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
General Expense	3690 004		3517 10 007 001		1375 000		8879 003				6045 000 001		12910 001 001	
Maintenance	1250 06 139 073		8747 79 018 011		2220 007		3198 40 013				4910 92 019 010		4462 28 018 010	
Mining Expense	2663 86 296		5684 17 77 122 105		7126 59 222		2535 02 029				3966 96 158 31		18911 64 139 152	
Exploratory					000						5586 78 027 012		001	
Loading & Shipping	05 000		3544 001 001		1242		285				2027 35 008 014		5564 000	
Improvement	3426 59 382										6347 74 002 026			
New Construction	17752 82 797 4		7200 001		7273 21 226		3449 79 134		2993 73		303 87 001 024			
Rips Rented Houses	327 53 037 059										618 23 002 003		266 48 002 001	
Land Improvement	1526 40 016 032										301 000			
Supply Equipment	277 26 031 055		8679 001 001								392 87 201 042		389 85 003 001	
New Shaft			3090 13 009 009										000 58 71 21 043 165	
Miscellaneous	1129 47 125 041				2537						2394 52 010 045			
Total 12 mos 1899	27019 11 300		69225 63 129		14673 31 455		6396 29 250		2993 73		60137 77 238		28086 20 206	
Total Last year 1898	2769 01		26056 19 758		128						5601 87 6		308	331

C. J. M. Co. & L. Co.

Summary Supplies used

Year ending Nov 30 1899

CLEVELAND IRON MINING CO. and IRON CLIFFS CO.

Classification of Causes of Accidents for Year Ending Nov. 30th, 1899.

Total Accidents	C. I. M. Co.			I. C. Co.		
	Minor	Fatal	Total	Minor	Fatal	Total
<u>Underground</u>						
Falls of ground	14		14	5		5
In shafts	2		2	1	2	3
Miscellaneous	54		54	51	1	52
Total underground	70		70	57	3	60
Total surface	11		11	13		13
Grand total	81		81	70	3	73
<u>Classification</u>						
<u>Underground.</u>						
<u>Falls of ground:</u>						
Falls of roof	13		13	4		4
Falls of side	1		1	1		1
<u>In Shafts:</u>						
Overwinding						
Ropes breaking	1		1			
Going up or down by machinery					1	1
Falling into shaft from surface						
Things falling from surface						
Falling from part way down					1	1
Things falling from part way down	1		1			
Miscellaneous in shaft				1		1
<u>Miscellaneous</u>						
Explosives				1		1
Irruptions of water or mud						
By tram cars and road	25		25	7	15	15
By Electricity				8	5	6
By machinery underground	5		5		1	1
By loading ore	4		4	8	21	21
Barring Down rock	2		2	4		
Falling from ladder or staging	1		1	2		2
Falling down raise						
Handling timber or rails	13		13	3	2	2
Miscellaneous	4		4	5		5
<u>On Surface</u>						
By machinery	2		2	1		1
on tramways or railways				5		5
By loading ore	2		2	1		1
Falling from loaders, etc.				3	3	3
Handling timber or rails	5		5	1	1	1
Miscellaneous	2		2	3	2	2
Grand total	81		81	70	3	73
Total 1898	54		54	63	6	69