

64 - 9061

Misc Data File  
AGENTS' ANNUAL REPORTS AND  
STATISTICS  
FOR YEAR ENDING NOV. 30,  
1906  
Free & Land Depts.

MS 86-100  
2083

# RECORDS REFERRAL OUTCARD

DEPARTMENT	DATE
DIVISION	AUG 18 1988

LABOR  
W.D.C.

RECORD REQUESTED

U9560839

PERSON REQUESTING	LOT	BOX
RP	1249	50

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

#2083

#75

AGENT'S ANNUAL REPORT AND STATISTICS  
FOR YEAR ENDING NOV. 30, 1906.

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CLEVELAND - CLIFFS IRON CO.

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DETAIL OF STOCK USED

O R E	1906						1905					
	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Per Cent Used
L a k e	57097	1770	✓ 2 889	164915 56	4 575	✓ 81 5	7434	2225	2 645	19664 01	4 114	79 5
Cliffs Shaft	2594	340	✓ 3 560	9235 42	256	✓ 3 7	404	414	3 524	1424 38	298	4 3
Lake Silica	3472	140	1 579	5481 32	152	✓ 5 0	742	300	1 518	1126 97	236	7 9
Lake Bessemer Silica	2367	450	1 567	3709 84	103	✓ 3 4						
Lake Bessemer	168	1980	4 600	787 64	022	✓ 2						
Alfred	1133	2180	4 164	4723 79	131	✓ 1 6						
Abbotsford	572	570	4 627	2646 28	073	✓ 8						
Buffalo	1337	420	3 005	4018 55	112	✓ 1 9						
Salisbury	1304	0	✓ 2 824	3682 85	✓ 102	✓ 1 9	782	1709	2 825	2211 44	463	8 3
Wood for thawing ore				307 40	✓ 009							
Dr. a/c yrs. analysis				209 52	005					14 74	003	
Total	70047	1130	2 852	199719 17	5 540	100 0	9364	168	2 610	24441 49	5 114	100 0
Frnt. on Abbotsford ret'd.				156 59	005							
Cr. a/c yrs. analysis				2818 27	078					209 77	044	
Total	70047	1130	2 852	196744 31	5 457	100 0	9364	168	2 610	24231 72	5 070	100 0
Limestone	2758	1050	1 061	2925 85	081		431	325	1 001	431 60	090	
Charcoal ( Bushels )	3608717		079	286418 54	7 944		449055		081	36509 61	7 639	



THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1905 AND 1906.

Blast No. 2 Tons made this blast 216892	IRON MADE IN 1906, 36055 TONS				IRON MADE IN 1905, 4779 TONS			
	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton
<b>GENERAL EXPENSE:</b>								
Insurance		132 00	132 00	004		73 45	73 45	015
Taxes		3132 51	3132 51	087		3370 18	3370 18	705
Analysis	642 96	281 92	924 88	026	342 51	50 73	393 24	082
Salaries and Other Expenses	6824 82	3101 28	9926 10	275	7170 21	2151 27	9321 48	1 951
<b>Total</b>	<b>7467 78</b>	<b>6647 71</b>	<b>14115 49</b>	<b>392</b>	<b>7512 72</b>	<b>5645 63</b>	<b>13158 35</b>	<b>2 753</b>
<b>MAINTENANCE:</b>								
Tracks and Yard	759 90	524 39	1284 29	036	449 55	333 42	782 97	164
Trestles and Dock	2809 06	9474 61	12283 67	341	81 80	138 19	219 99	046
Buildings	442 04	356 71	798 75	022	959 19	1086 59	2045 78	428
Machinery	1108 05	1219 23	2327 28	065	496 99	329 46	826 45	173
Tuyeres	64 52	502 16	566 68	016	74 01	59 41	133 42	028
Relinings and Renewals		3609 20	3609 20	100		475 60	475 60	100
Water Supply	104 38	17 03	121 41	003	74 88	118 08	192 96	040
Pig Iron Trucks, Coal & Ore Buggies	283 73	60 63	344 36	009	61 06	17 10	78 16	016
Stack	91 12	16 20	107 32	002	126 10	126 61	252 71	053
Stoves	108 87	25 68	134 55	004	143 51	91 09	234 60	050
Cleaning Up	773 62	47 05	820 67	023	497 48	38 76	536 19	112
Sewer	435 28	114 12	549 40	015	131 15	457 11	588 26	123
<b>Total</b>	<b>6980 57</b>	<b>15967 01</b>	<b>22947 58</b>	<b>636</b>	<b>3095 67</b>	<b>3271 42</b>	<b>6367 09</b>	<b>1 333</b>
<b>OPERATING:</b>								
Machinery	3470 00	1259 99	4729 99	131	2126 05	446 96	2573 01	538
Electric Light	198 04	191 37	389 41	010	75 19	117 36	192 55	040
Bottom Fillers	10867 84	182 36	11050 20	307	1446 13	44 91	1491 04	312
Top Fillers	2721 33	4 32	2725 65	076	392 40	20	392 60	082
Handling Iron	5148 27	1 08	5149 35	143	665 84		665 84	140
Handling Cinder	2513 50	426 55	2940 05	082	363 29	164 68	527 97	110
Weighing and Grading Iron	685 45	40	685 85	019	216 45		216 45	045
Founders, Keepers and Helpers	9946 34	12 51	9958 85	276	2743 91		2743 91	574
Coal Forkers	8520 30	132 46	8652 76	240	1144 21	13 87	1158 08	243
Casting Tools	209 64	186 26	395 90	011	39 78	51 30	91 08	019
Sand and Clay	799 62	895 03	1694 65	047	142 08	119 90	261 98	055
Filtering		99 79	99 79	003	15 22	37 21	52 43	011
Wood	52 02	256 55	308 57	008	12 34	239 82	252 16	053
Cleaning Stoves	257 83	386 86	644 69	018	90 22		90 22	019
Boiler Fuel					285 99	5464 75	5749 84	1 203
<b>Total</b>	<b>45390 18</b>	<b>4035 53</b>	<b>49425 71</b>	<b>1 371</b>	<b>9758 20</b>	<b>6700 96</b>	<b>10459 16</b>	<b>3 444</b>
<b>STOCK USED:</b>								
Or e	21 58	196722 73	196744 31	5 457		24231 72	24231 72	5 070
Charcoal		286418 54	286418 54	7 944		36509 61	36509 61	7 640
Limestone		2925 85	2925 85	081		431 60	431 60	090
<b>Total</b>	<b>21 58</b>	<b>486067 12</b>	<b>486088 70</b>	<b>13 482</b>		<b>61172 93</b>	<b>61172 93</b>	<b>12 800</b>
<b>Cost of Production</b>	<b>59860 11</b>	<b>512717 37</b>	<b>572577 48</b>	<b>15 881</b>	<b>20366 59</b>	<b>76790 94</b>	<b>97157 53</b>	<b>20 330</b>
<b>DEPRECIATION:</b>								
Equipment		423 23	423 23	012		2150 83	2150 83	448
Construction		18046 00	18046 00	500		2378 00	2378 00	500
Improvement		185 57	185 57	005				
Shortage Supply Account		103 37	103 37	003				
<b>Total</b>		<b>18753 17</b>	<b>18753 17</b>	<b>520</b>		<b>4528 83</b>	<b>4528 83</b>	<b>948</b>
Sale of scrap material						357 91	357 91	075
Over-run in supply account						92 06	92 06	020
<b>Total</b>		<b>18753 17</b>	<b>18753 17</b>	<b>520</b>		<b>4078 86</b>	<b>4078 86</b>	<b>853</b>
<b>Total Cost On Yard</b>	<b>59860 11</b>	<b>531475 54</b>	<b>591335 65</b>	<b>16 401</b>	<b>20366 59</b>	<b>80869 80</b>	<b>101236 39</b>	<b>21 183</b>
<b>LOADING &amp; SWITCHING:</b>								
1906	1905							
Loading Cars, Tons	16978	6325				379 50	379 50	060
Switching	16978	6325	124 10	062	14 11	76 94	91 05	014
<b>Total Loading Cars</b>	<b>124 10</b>	<b>1131 06</b>	<b>1255 16</b>	<b>035</b>	<b>14 11</b>	<b>456 44</b>	<b>470 55</b>	<b>074</b>
Loading Vessels	18897	1647	227 81	085	13 26	214 70	227 96	138
<b>Grand Total</b>	<b>60212 02</b>	<b>535439 01</b>	<b>595651 03</b>	<b>16 521</b>	<b>20393 96</b>	<b>81540 94</b>	<b>101934 90</b>	<b>21 329</b>
Construction Account Not Sunk Off			5741 42				23787 42	
Improvement Account Not Sunk Off			6930 23				55709 08	
<b>Cost Per Ton For Labor</b>				<b>1 670</b>				<b>4 268</b>

SUMMARY OF COST PER TON

	On Yard	On Cars	On Ves'l	On Yard	On Cars	On Ves'l	YIELD	
							1906	1905
Cost on yard, as above	16 401	16 401	16 401	21 183	21 183	21 183		
Cost to load, as above		035	085		074	138		
<b>Total</b>	<b>16 401</b>	<b>16 436</b>	<b>16 486</b>	<b>21 183</b>	<b>21 257</b>	<b>21 321</b>	<b>51 5 Ore</b>	<b>51 0</b>
Com. and Expenses, Cleveland Office	350	350	350	350	350	350	<b>100 1 Coal</b>	<b>94 1</b>
<b>Total Cost</b>	<b>16 751</b>	<b>16 786</b>	<b>16 836</b>	<b>21 533</b>	<b>21 607</b>	<b>21 671</b>	<b>171 0 Flux</b>	<b>202 0</b>

# THE CLEVELAND-CLIFFS IRON CO.

BESSEMER

PIONEER FURNACE NO. 1.

PIG IRON COST SHEET.

Year, 1906

Number of Blast <b>2nd.</b>	Tons Produced, 1 Month				
	Tons Produced, during year <b>1150</b> Optg. <b>12 1/2</b> days				
Tons made this Blast <b>0222</b>	Labor	Supplies	Total	Total Year	Cost per Ton 1 Mo Total Year
<b>GENERAL EXPENSE—</b>					
Insurance,		4 12		4 12	003
Taxes,		00 80		00 80	080
Analysis,	22 10	5 21		27 37	024
Salaries and Other Expenses,	206 10	72 06		278 06	241
Total,	228 20	182 09		410 35	354
<b>MAINTENANCE—</b>					
Tracks and Yard,	31 00	50 18		81 78	071
Trestles and Dock,	4 44	1 01		6 05	005
Buildings,	11 57	20 41		37 98	033
Machinery,	22 33	2 48		24 81	021
Tuyeres,	1 27	01		1 28	001
Relinings and Renewals,		115 00		115 00	100
Water Supply,					
Pig Iron Trucks, Coal and Ore Buggies	2 63	12		2 75	002
Stack,	4 50	1 19		5 75	005
Stoves,	43	01		44	000
Cleaning Up,	22 21	00		22 21	020
Total,	101 04	198 51		299 55	258
<b>OPERATING—</b>					
Machinery,	104 00	30 29		135 19	117
Electric Light,	3 03	3 18		6 21	005
Bottom Fillers,	340 00	7 58		352 58	304
Top Fillers,	85 84			85 84	074
Handling Iron,	102 20			102 20	140
Handling Cluder,	52 52	15 84		68 30	059
Weighing and Grading Iron,	21 46			21 46	019
Founders, Keepers and Helpers,	312 78			312 78	270
Coal Forkers,	207 50	4 83		272 39	235
Casting Tools,	4 34	0 40		10 80	009
Sand and Clay,	27 75	28 00		55 75	050
Filtering,		2 49		2 49	002
Wood,	1 53			1 53	001
Cleaning Stoves,	2 56			2 56	002
Boiler Fuel,					
Total,	1302 53	98 67		1491 20	1 287
<b>STOCK USED—</b>					
Ore,		8149 53		8149 53	7 032
Charcoal,		9 57 21		9 57 21	8 332
Limestone,		74 27		74 27	064
Total,		17881 01		17881 01	16 428
Cost of Production,	1721 23	18300 28		20022 11	17 327
<b>DEPRECIATION—</b>					
Construction Account,		579 50		579 50	500
Improvement Account,					
Total,		579 50		579 50	500
Total Cost on Yard,	1721 23	18032 78		20001 01	17 327
<b>LOADING AND SWITCHING—</b>					
	1 Month	Year			
Loading Cars	1150	Tons	89 72	89 72	078
Switching	"	Tons	5 72	15 24	013
Total Loading Cars,	9 52	95 44		104 96	091
Loading Vessels	1 Month	.... Mos			
Grand Total 1 Month,					
Grand Total for year	1731 35	19035 22		20700 57	17 918
Construction Account not sunk off,				11435 92	
Improvement Account not sunk off,				0030 23	

**Summary of Cost per Ton.**

	Cost per Ton.			Yield.	
	On Yard	On Cars	On Vessel	1 Month	Year
Cost on Yard, as above,	17 002	17 002	17 002	Average Yield of Ore	50 2 1/2
Cost to Load, as above,		000		Bushels Coal per Ton	103 1/2
Total,	17 002	18 002	17 002	Lbs. Flux per Ton	130
Commissions and Expenses Cleveland Office,	350	350	350	Cost per Ton for Labor	1.485
Total Cost,	18 312	18 402	18 312		

Ore	Stock Used.				Amount	Cost per Ton.	Per cent of Ore Used.
	Tons	Lbs.	Price	Price			
Lake Silica	23	470	1 578	30 61	032	1 2	
Lake Bessemer	168	1060	4 003	787 64	080	8 0	
Lake Bessemer Silica	58	30	1 929	111 80	097	2 7	
Abbotsford	572	570	4 025	2046 28	2 288	29 3	
Alford	1133	2180	4 100	4728 79	4 075	58 2	
Frgt on Abbotsford ore returned				150 59	135		
Total,	1960	750	4 105	8149 53	7 032	100%	
Limestone,	70	475	1 058	74 27	064		
Charcoal,	Bus.	119520	0808	9657 21	8 332		

REMARKS: General Expense (Salaries and Other Expenses) Charged **20 1/2** per cent. of General Office and **05** per cent. of Cleveland Office.

\* "Loading Cars"

1050 ton @ 0 84 72  
 100 " @ 0 84 72  
 -----  
 \$89.72



# THE CLEVELAND-CLIFFS IRON CO.

NON-BESSEMER

PIONEER FURNACE NO. 1.

PIG IRON COST SHEET.

Year, 190 <sup>C</sup>

	Number of Blast <b>2nd</b>		Tons Produced, 1 Month				Tons Produced, Year <b>34890</b> Op'tg <b>348 1/2</b> days	
	Tons made this Blast <b>207670</b>		Labor	Supplies	Total	Total ... Mos.	Cost per Ton 1 Mo.	
<b>GENERAL EXPENSE—</b>								
Insurance,				127 88	127 88			004
Taxes,				3032 71	3032 71			080
Analysis,	620	80	276	71	897 51			026
Salaries and Other Expenses,	6618	72	3028	32	9647 04			277
<b>Total,</b>	<b>7239</b>	<b>52</b>	<b>6465</b>	<b>62</b>	<b>13705</b>	<b>14</b>		<b>393</b>
<b>MAINTENANCE—</b>								
Tracks and Yard,	728	30	474	21	1202 51			035
Trestles and Dock,	2804	62	9473	00	12277 62			350
Buildings,	430	47	330	30	760 77			022
Machinery,	1085	72	1216	75	2302 47			060
Tuyeres,	63	25	502	15	565 40			016
Relinings and Renewals,			3403	30	3403 30			100
Water Supply,	104	38	17	03	121 41			044
Pig Iron Trucks, Coal and Ore Buggies	281	10	60	51	341 61			010
Stack,	86	56	15	01	101 57			003
Stoves,	108	44	25	67	134 11			004
Cleaning Up,	751	41	46	45	797 86			023
Sewer	435	28	114	12	549 40			016
<b>Total,</b>	<b>6879</b>	<b>53</b>	<b>15768</b>	<b>50</b>	<b>22648</b>	<b>03</b>		<b>649</b>
<b>OPERATING—</b>								
Machinery,	3365	10	1229	70	4594 80			132
Electric Light,	195	01	128	10	323 20			011
Bottom Fillers,	10621	84	174	78	10800 62			307
Top Fillers,	2635	40	4	32	2639 81			076
Handling Iron,	4980	01	1	08	4987 09			143
Handling Cinder,	3460	98	410	71	2871 00			082
Weighing and Grading Iron,	663	90		40	664 39			019
Founders, Keepers and Helpers,	9633	56	12	51	9646 07			276
Coal Forkers,	2252	74	127	63	2380 37			240
Casting Tools,	205	30	179	80	385 10			011
Sand and Clay,	771	87	867	03	1638 90			047
Filtering,			37	30	37 30			003
Wood,	50	40	256	55	307 94			000
Cleaning Stoves,	255	27	386	80	642 13			018
Boiler Fuel,								
<b>Total,</b>	<b>43997</b>	<b>65</b>	<b>3936</b>	<b>86</b>	<b>47934</b>	<b>51</b>		<b>1 374</b>
<b>STOCK USED—</b>								
Ore,	21	58	188573	20	188504	78		5 404
Charcoal,			276761	33	276761	33		7 931
Limestone,			2851	58	2851	58		081
<b>Total,</b>	<b>21</b>	<b>58</b>	<b>468186</b>	<b>11</b>	<b>468207</b>	<b>69</b>		<b>13 416</b>
Cost of Production	58138	28	494357	00	552495	37		15 822
<b>DEPRECIATION—Equipment acct.</b>								
Construction Account,			423	33	423	33		012
Improvement Account,			17400	80	17400	80		501
Shortage Supply account			185	57	185	57		005
<b>Total,</b>			18178	67	18178	67		521
<b>Total Cost on Yard,</b>	<b>58138</b>	<b>28</b>	<b>512535</b>	<b>76</b>	<b>570074</b>	<b>04</b>		<b>16 353</b>
<b>LOADING AND SWITCHING—</b>								
Lading Cars	1 Month	12 Mos.						
Switching	15819	Tons	965	51	968	51		061
	"	Tons	67	11	181	60		012
<b>Total Lading Cars,</b>			114	58	1035	62		033
Lading Vessels	1 Month	12 Mos.						
	18807	Tons	227	81	2832	41		088
<b>Grand Total 1 Month,</b>			58480	67	516403	79		16 474
<b>Grand Total 12 Months,</b>					574884	46		
Construction Account not sunk off,								
Improvement Account not sunk off,								

	Summary of Cost per Ton.			Yield.	
	On Yard	On Cars	On Vessel	1 Month	12 Mos.
Cost on Yard, as above,	16 353	16 353	16 353	Average Yield of Ore	51 3/4
Cost to Load, as above,		073	103	Bushels Coal per Ton	100 0/100
<b>Total,</b>	16 353	16 426	16 513	lbs. Flux per Ton	173
Commissions and Expenses Cleveland Office,	350	350	350		
<b>Total Cost,</b>	16 703	16 776	16 863	Cost per Ton for Labor	1.676

Ore	Stock Used.		Price	Amount	Cost per Ton	Per cent of Ore Used.
	Tons	Lbs.				
Lake	57007	1770	3 889	164915 50	4 727	83 0
Salisbury	1304		2 824	3683 85	105	01 9
Cliffs Shaft	2594	340	3 500	9235 42	265	03 8
Lake Silica	3448	1910	1 579	5444 71	156	05 1
Lake Bessemer Silica	2309	420	1 558	3598 04	103	03 4
Buffalo	1337	420	3 005	4018 55	115	01 0
Brands for thawing ore				307 40	008	
Debit a/c years analysis ore				200 52	006	
Credit a/c years analysis ore				2818 27	081	
<b>Total,</b>	<b>68091</b>	<b>380</b>	<b>3 770</b>	<b>188504</b>	<b>78</b>	<b>5 404</b>
Limestone,	2688	575	1 061	2851 58	081	
Charcoal,	Bus. 3489197		0794	276761 33	7 931	

REMARKS: Gladstone  
 General Expense (Salaries and Other Expenses) Charged 20 1/2 per cent. of General Office and 65 per cent. of Cleveland Office.

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1905 AND 1906.

Plant No. 1	GALLONS PRODUCED 1906, 186795½				GALLONS PRODUCED 1905, 30512½			
	Labor	Supplies	Total	Cost Per Gal.	Labor	Supplies	Total	Cost Per Gal
<b>GENERAL EXPENSE:</b>								
Insurance		1575 00	1575 00	009		1575 00	1575 00	052
T a x e s		783 13	783 13	004		842 55	842 55	027
Analysis	553 08	223 86	776 94	004	342 51	50 72	393 23	013
Salaries and Other Expenses	1372 88	703 02	2075 90	011	1378 66	464 40	1843 06	060
Consulting Chemist	106 88	15 90	122 78	001				
<b>Total</b>	<b>2032 84</b>	<b>3300 91</b>	<b>5333 75</b>	<b>029</b>	<b>1721 17</b>	<b>2932 67</b>	<b>4653 84</b>	<b>152</b>
<b>MAINTENANCE:</b>								
Tanks and Stills	744 93	648 78	1393 71	008	68 25	36 41	104 66	004
Condensers	68 00	18 65	86 65	000	51 51	17 17	68 68	002
Machinery	245 72	584 59	830 32	004	110 84	64 43	175 27	006
Boilers	63 32	29 81	93 13	001	118 23	262 57	380 80	012
Fans and Pulleys	86 83	160 09	246 92	001	16 90	64	17 54	001
Smoke Mains	64 71	69 77	134 48	001	25 05	25	25 30	001
Buildings	159 28	132 96	292 24	002	89 13	70 91	160 04	005
Water Supply		2 65	2 65	000	12 47	1 56	14 03	000
D i t c h	147 20	1 90	149 10	001				
Cleaning Up	62 21	6 34	68 55	000	30 41	6 47	36 88	001
Chute Apparatus	113 27	140 17	253 44	001				
Piping	40 07	396 77	436 84	002				
<b>Total</b>	<b>1795 55</b>	<b>2192 48</b>	<b>3988 03</b>	<b>021</b>	<b>522 79</b>	<b>460 41</b>	<b>983 20</b>	<b>032</b>
<b>OPERATING:</b>								
Superintendent	750 00		750 00	004	716 00		716 00	024
Stillmen	5768 76	196 60	5965 36	032	855 95	7 18	863 13	028
Engineers	2960 56		2960 56	016	330 87		330 87	012
Firemen	479 59	3 57	483 16	003	166 90		166 90	005
Machinery		131 82	131 82	001		39 89	39 89	001
Boilers	179 67	325 70	505 37	003	10 63	6 71	17 34	001
F u e l		2654 41	2654 41	014	19 60	435 95	455 55	015
Electric Light	46 73	91 62	138 35	001	65 29	51 36	116 65	004
L i m e		2986 75	2986 75	016	4 80	579 38	584 18	019
Chemicals		86 84	86 84	000		52 50	52 50	001
Condensermen	526 77	3 02	529 79	003				
Cleaning Smoke Mains	90 02		90 02	000				
<b>Total</b>	<b>10802 10</b>	<b>6480 33</b>	<b>17282 43</b>	<b>093</b>	<b>2170 04</b>	<b>1172 97</b>	<b>3343 01</b>	<b>110</b>
<b>Cost of Production</b>	<b>14630 49</b>	<b>11973 72</b>	<b>26604 21</b>	<b>143</b>	<b>4414 00</b>	<b>4566 05</b>	<b>8980 05</b>	<b>294</b>
<b>DEPRECIATION:</b>								
Inventory		33 10	33 10	000		33 70	33 70	001
Construction						2580 87	2580 87	084
Improvement		21701 20	21701 20	116		6316 44	6316 44	207
<b>Total</b>		<b>21734 30</b>	<b>21734 30</b>	<b>116</b>		<b>8931 01</b>	<b>8931 01</b>	<b>292</b>
Over-run Chemical Supplies						70 38	70 38	002
<b>Total</b>		<b>21734 30</b>	<b>21734 30</b>	<b>116</b>		<b>8860 63</b>	<b>8860 63</b>	<b>290</b>
<b>Total Cost</b>	<b>14630 49</b>	<b>33708 02</b>	<b>48338 51</b>	<b>259</b>	<b>4414 00</b>	<b>13426 68</b>	<b>17840 68</b>	<b>584</b>
<b>LOADING AND SWITCHING:</b>								
1906	1905	Gal.						
Barrels	183029	20151½	"			612 15	612 15	031
Loading	183029	20151½	"	96 94	33 82	130 76	30 28	000
Switching	183029	20151½	"	9 84	5 85	15 69	1 47	000
<b>Total</b>				<b>106 78</b>	<b>6436 27</b>	<b>6543 05</b>	<b>643 90</b>	<b>031</b>
<b>Total Cost On Cars</b>	<b>14737 27</b>	<b>40144 29</b>	<b>54881 56</b>	<b>294</b>	<b>4437 54</b>	<b>14047 04</b>	<b>18484 58</b>	<b>605</b>
Improvement Account Not Sunk Off			133174 79				105540 06	
Yield of Alcohol per Cord of Wood				4.00				4.05
1906	1905							
Smoke Received from 46670	7532 Cds.							
Number of days operated in 1905, 49								
" " " " " 1906, 319								

**THE CLEVELAND-CLIFFS IRON COMPANY**  
Furnace Department

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1905 AND 1906

Plant No. 2	GALLONS PRODUCED 1906, 104562½				GALLONS PRODUCED 1905, 16269½			
	Labor	Supplies	Total	Cost Per Gal.	Labor	Supplies	Total	Cost Per Gal.
<b>GENERAL EXPENSE:</b>								
Insurance		2250 00	2250 00	022		2250 00	2250 00	138
Taxes		783 13	783 13	007		842 55	842 55	052
Analysis	553 08	223 86	776 94	007	342 51	50 72	393 23	024
Salaries and Other Expenses	1340 95	593 93	1934 88	019	1378 64	420 76	1799 40	111
Consulting Chemist	106 88	15 90	122 78	001				
<b>Total</b>	<b>2000 91</b>	<b>3800 82</b>	<b>5807 73</b>	<b>056</b>	<b>1721 15</b>	<b>3564 03</b>	<b>5285 18</b>	<b>325</b>
<b>MAINTENANCE:</b>								
Tanks and Stills	253 37	221 14	474 51	005	61 17	21 56	82 73	005
Condensers	10 48	1 11	11 59	000				
Machinery	149 65	369 72	519 37	005	95 57	115 88	211 45	013
Boilers	300 59	241 31	541 90	005	63 98	30 81	94 79	006
Buildings	13 84	6 79	20 63	000	76 20	46 05	122 25	008
Water Supply	4 64	15	4 79	000		263 46	263 46	015
Ditch	167 12	6 69	173 81	002	53 84		53 84	003
Cleaning Up	18 47	8 33	26 80	000	1 67	06	1 73	000
<b>Total</b>	<b>918 16</b>	<b>855 24</b>	<b>1773 40</b>	<b>017</b>	<b>352 43</b>	<b>477 82</b>	<b>830 25</b>	<b>050</b>
<b>OPERATING:</b>								
Superintendent	750 00		750 00	007	716 00		716 00	045
Stillmen	3587 28	273 21	3860 49	037	502 72	3 53	506 25	031
Firemen	1623 82	7 19	1631 01	016	271 89		271 89	017
Machinery	3 89	79 29	83 18	001		29 58	29 58	002
Boilers	120 72	20 45	141 17	001	30	4 33	4 63	000
Fuel	722 23	12057 21	12779 44	122	50 06	1798 83	1848 89	114
Electric Light	34 06	42 94	77 00	001	62 98	47 54	110 52	007
Lime		3438 72	3438 72	033		424 99	424 99	026
Chemicals		64 77	64 77	001		37 75	37 75	002
Hose		238 08	238 08	002		27 60	27 60	001
<b>Total</b>	<b>6842 00</b>	<b>16221 86</b>	<b>23063 86</b>	<b>221</b>	<b>1603 95</b>	<b>2374 15</b>	<b>3978 10</b>	<b>245</b>
<b>Cost of Production</b>	<b>9761 07</b>	<b>20943 92</b>	<b>30704 99</b>	<b>294</b>	<b>3677 53</b>	<b>6416 00</b>	<b>10093 53</b>	<b>620</b>
<b>DEPRECIATION:</b>								
Improvement		7067 53	7067 53	068		5834 88	5834 88	358
Inventory		33 09	33 09	000		16 80	16 80	001
<b>Total</b>		<b>7100 62</b>	<b>7100 62</b>	<b>068</b>		<b>5851 68</b>	<b>5851 68</b>	<b>359</b>
Over-run Chemical Supplies						70 38	70 38	004
<b>Total</b>		<b>7100 62</b>	<b>7100 62</b>	<b>068</b>		<b>5781 30</b>	<b>5781 30</b>	<b>355</b>
<b>Total Cost</b>	<b>9761 07</b>	<b>28044 54</b>	<b>37805 61</b>	<b>362</b>	<b>3677 53</b>	<b>12197 30</b>	<b>15874 83</b>	<b>975</b>
<b>LOADING &amp; SWITCHING:</b>								
Barrels	102479	8031½ Gal.	3363 45	033		245 85	245 85	030
Loading	102479	8031½ "	26 83	000	5 02		5 02	001
Switching	102479	8031½ "	5 85	000	32	26	58	000
<b>Total</b>	<b>32 68</b>	<b>3373 23</b>	<b>3405 91</b>	<b>032</b>	<b>5 34</b>	<b>246 11</b>	<b>251 45</b>	<b>031</b>
<b>Total Cost On Cars</b>	<b>9793 75</b>	<b>31417 77</b>	<b>41211 52</b>	<b>394</b>	<b>3682 87</b>	<b>12443 41</b>	<b>16126 28</b>	<b>991</b>
Improvement Account Not Sunk Off			30823 36				34398 70	
Yield of alcohol per Cord of Wood				7.32				7.51
Smoke Received From	1906 14288	1905 2164 Cds.						

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

PLANT No. 1

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1905 and 1906

No. days operating 1906, 294 " " " 1905, 22	POUNDS PRODUCED 1906, 1981408 Average per day 6740				POUNDS PRODUCED 1905, 160978 Average per day 6999			
	Labor	Supplies	Total	Cost per cwt.	Labor	Supplies	Total	Cost per cwt.
<b>GENERAL EXPENSE</b>								
Insurance		4 49	4 49	000		2 45	2 45	001
Analysis	96 87	40 80	137 73	007	57 03	8 46	65 49	041
Salaries & Other Expenses	524 99	237 55	762 54	039	551 44	164 97	716 41	445
Consulting Chemist	106 88	15 90	122 78	006				
<b>Total</b>	<b>728 74</b>	<b>298 80</b>	<b>1027 54</b>	<b>052</b>	<b>608 47</b>	<b>175 88</b>	<b>784 35</b>	<b>487</b>
<b>MAINTENANCE</b>								
Building	64 21	11 46	75 67	004	41 65	34 28	75 93	047
Tanks	16 81	2 92	19 73	001	100 86	46 46	147 32	092
Conveyor	26 44	1 69	28 13	001	23	01	24	000
Dry floor	5 28	9 38	14 66	000				
Dryer					38 52	92 12	130 64	082
Piping	7 31	16 72	24 03	001	3 67	26	3 93	002
Boilers	33 66	40 72	74 38	004	45 92	94 66	140 58	087
Generator					2 06	13	2 19	001
Cleaning up	3 20		3 20	000				
Motors					20 43	13 12	33 55	021
Machinery	23 70	8 67	32 37	002				
Pans	200 75	31 64	232 39	012				
Steam meter					11 96	5 67	17 63	011
<b>Total</b>	<b>381 36</b>	<b>123 20</b>	<b>504 56</b>	<b>025</b>	<b>265 30</b>	<b>286 71</b>	<b>552 01</b>	<b>343</b>
<b>OPERATING</b>								
Raking	819 37	10 56	829 93	042	✓ 63 02		63 02	039
Skimming	1775 08	28 18	1803 26	091	✓ 66 20	5 31	71 51	045
Machinery		9 66	9 66	000	✓			
Firemen	715 21		715 21	036	✓ 75 60		75 60	047
Fuel	984 49	10209 72	11194 21	565	✓ 47 02	663 87	710 89	441
Electric light	19 27	11 23	30 50	001	✓ 10 86	13 76	24 62	015
Boilers	115 07	16 46	131 53	007	✓ 21 28	2 63	23 91	015
Lime		1039 20	1039 20	053	✓			
<b>Total</b>	<b>4428 49</b>	<b>11325 01</b>	<b>15753 50</b>	<b>795</b>	<b>✓ 283 98</b>	<b>685 57</b>	<b>969 55</b>	<b>602</b>
Cost of production	<b>5532 59</b>	<b>11747 01</b>	<b>17285 60</b>	<b>872</b>	<b>1157 75</b>	<b>1148 16</b>	<b>2305 91</b>	<b>1 432</b>
<b>DEPRECIATION</b>								
Improvement account		3361 67	3361 67	170		1500,00	1500 00	932
Total cost	<b>5532 59</b>	<b>15108 68</b>	<b>20647 27</b>	<b>1 042</b>	<b>1157 75</b>	<b>2648 16</b>	<b>3805 91</b>	<b>2 364</b>
<b>LOADING &amp; SWITCHING</b>								
		1906	1905					
Sacks	Lbs.	1981408	160978	1141 46	058		77 33	048
Loading	"	1834873	117484	131 45	007	5 65	5 65	005
Switching	"	1834873	117484	8 42	001	32	58	000
Storing	"	573570	000	94 30	016			
<b>Total</b>	<b>234 17</b>	<b>1146 32</b>	<b>1380 49</b>	<b>070</b>	<b>5 97</b>	<b>77 59</b>	<b>83 56</b>	<b>053</b>
Total cost on cars	<b>5772 76</b>	<b>16255 00</b>	<b>22027 76</b>	<b>1 112</b>	<b>1163 72</b>	<b>2725 75</b>	<b>3889 47</b>	<b>2 416</b>
Improvement account not sunk off			19256 34				8724 60	
Yield per cord wood				42 <sup>5</sup>				33 <sup>6</sup>
		1906	1905					
Smoke recd. from cds.		46670	4796					

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department  
SHERMAN 2800 STATE

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1905 AND 1906.

Plant No. 2	POUNDS PRODUCED 1906, 1757537 Average Per Day 5616				POUNDS PRODUCED 1905, 220028 Average Per Day 4900			
	Labor	Supplies	Total	Cost Per Cwt.	Labor	Supplies	Total	Cost Per Cwt.
<b>GENERAL EXPENSE:</b>								
Analysis	96 80	40 83	137 63	008	57 11	8 46	65 57	029
Salaries & Other Expense	524 99	237 54	762 53	043	551 42	164 93	716 35	326
Consulting Chemist	106 87	15 87	122 74	007				
<b>Total</b>	<b>728 66</b>	<b>294 24</b>	<b>1022 90</b>	<b>058</b>	<b>608 53</b>	<b>173 39</b>	<b>781 92</b>	<b>355</b>
<b>MAINTENANCE:</b>								
Buildings	2 14	79 54	81 68	005	38	8 04	8 42	004
T a n k s	27 67	4 54	32 21	002	22 33	15	22 48	010
Cleaning Up	5 82		5 82	000				
Dry Floor	18 37	33 13	51 50	003				
Piping	6 73	27 17	33 90	002	22 27	1 61	23 88	011
Boilers	73 56	99 24	172 80	010	22 34	10 41	38 75	018
P a n s	193 14	337 03	530 17	030				
<b>Total</b>	<b>327 43</b>	<b>580 65</b>	<b>908 08</b>	<b>052</b>	<b>73 32</b>	<b>20 21</b>	<b>93 53</b>	<b>043</b>
<b>OPERATING:</b>								
Raking	775 30	40	775 70	044	✓ 160 20		160 20	073
Skimming	1137 55	3 49	1131 04	065	✓ 85 50	3 72	89 22	040
Firemen	695 94	42	696 36	040	✓ 117 12		117 12	053
F u e l	336 00	5888 54	6224 54	354	✓ 25 04	874 05	899 09	409
Electric Light	11 51	4 46	15 97	001	✓ 10 85	11 25	22 10	010
Boilers	39 68	2 49	42 17	002	✓ 14	2 16	2 30	001
<b>Total</b>	<b>2985 98</b>	<b>5899 80</b>	<b>8885 78</b>	<b>506</b>	<b>✓ 393 85</b>	<b>891 18</b>	<b>1290 03</b>	<b>586</b>
<b>DEPRECIATION:</b>								
Cost of Production	4042 07	6774 69	10816 76	616	1080 70	1084 78	2165 48	984
Improvement		1252 69	1252 69	071		741 00	741 00	336
<b>Total Cost</b>	<b>4042 07</b>	<b>8027 38</b>	<b>12069 45</b>	<b>687</b>	<b>1080 70</b>	<b>1825 78</b>	<b>2906 48</b>	<b>1 320</b>
<b>LOADING &amp; SWITCHING:</b>								
	1906	1905						
Sacks	1757533	220028 Lbs.						
Loading	1718277	171620 "	115 48	1051 23	060	12 28	149 59	149 59
Switching	1718277	171620 "	8 95	1051 23	007	75	13 28	006
Storing	243881	"	30 40	14 35	061		65	1 40
				30 40	013			000
<b>Total</b>			<b>154 83</b>	<b>1056 63</b>	<b>069</b>	<b>13 03</b>	<b>150 24</b>	<b>163 27</b>
<b>Total Cost On Cars</b>	<b>4196 90</b>	<b>9084 01</b>	<b>13280 91</b>	<b>756</b>	<b>1093 73</b>	<b>1976 02</b>	<b>3069 75</b>	<b>1 395</b>
Improvement Account Not Sunk Off			6141 76				4567 15	
Yield per Cord Wood				123				103

Number of days operated in 1905, 49  
" " " " " 1906, 313

## THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

COMPARATIVE  
CHARCOAL COST SHEET.

For the years, 1905 and 1906.

ACCOUNT	Year 1906			Year 1905		
	BUSHELS	AMOUNT	Cost per Bus	BUSHELS	AMOUNT	Cost per Bus
<b>PIONEER FURNACE KILNS—</b>	<b>2359880</b>			<b>325460</b>		
Wood,		135900 45	0576		18247 24	0561
Loading from Yard,		985 69	0004		224 01	0007
Packing,		10413 80	0044		1402 90	0043
Kiln Tending,		3695 32	0016		733 82	0023
Taking out Breeze,		1141 75	0005		185 45	0006
Whitewashing,		1452 32	0006		277 73	0008
Cleaning out Kilns,		673 39	0003		86 37	0002
Depreciation,		5899 70	0025		813 65	0025
Repairs,		4393 16	0019		255 27	0008
Total,		164621 58	0698		22226 44	0683
Average yield per cord,			42 <sup>4</sup>			41 <sup>8</sup>
Cords Carbonized,			55599 <sup>5</sup>			7779
Cords Carbonized per Kiln,			794			111 <sup>9</sup>
Bushels per Kiln, small,			30991			2270
Bushels per Kiln, large,			40517			2975
<b>PIONEER FURNACE RETORTS—</b>	<b>751500</b>			<b>92320</b>		
Wood,		43394 43	0577		5491 97	0595
Loading Cradle Cars,		3146 92	0042		456 20	0049
Filling and Pulling,		1578 41	0021		228 10	0025
Tending,		880 00	0012		107 00	0011
Firing,		2767 50	0037		379 05	0041
Fuel,		15458 07	0206		2336 52	0253
Sand and Cement,		53 08	0000		9 20	0001
Depreciation,		9771 50	0130		1200 16	0130
Repairs,		2640 27	0035		1463 33	0159
Total,		79690 18	1060		11671 53	1264
Average Yield per Cord,			45 <sup>6</sup>			42 <sup>7</sup>
Cords Carbonized 1 Mo.			16476			2164
Cords Carbonized Mos.						
Lbs. Fuel per cord of wood,			539			590
<b>FROM JOBBERS—</b>	<b>497577</b>			<b>32740</b>		
Coal,		31887 88	0641		2137 90	0650
Freight,		5312 81	0107		248 62	0077
Switching,		124 06	0002		10 06	0003
General Expense,					5 25	0002
Insurance on Cars,		62 00	0001		62 00	0020
Depreciation of Equipment,					214 00	0066
Duty		2510 57	0051			
Rep. Charcoal Cars		2317 99	0046			
Total,		42215 31	0848		2677 83	0818
Mileage		53 83	0000			
Grand Total,	<b>3608957</b>	<b>286473 24</b>	<b>0794</b>	<b>450520</b>	<b>36575 80</b>	<b>0812</b>

REMARKS:

8

THE CLEVELAND-CLIFFS IRON CO.  
 WOOD REPORT  
 COMPARATIVE  
 1906  
 1905

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## COMPARATIVE WOOD REPORT

For years ending November 30th, 1906 and 1905.

	C O R D S			
	1 9 0 6		1 9 0 5	
<b>Wood Received:</b>				
Inventory Dec. 1st, 1905, Kilns	4891	375		
"    "    "    "    Yard	2666	750		
"    "    "    1904, Kilns			4428	250
"    "    "    "    Yard			1224	750
From Parsons	33110	250	6262	750
"    Mathews	35499	750	5870	250
"    Limestone				
"    Jobbers	711	750	71	500
"    Whitefish			42	375
Total received at furnace	76879	875	17899	875
<b>Wood consumed:</b>				
Carbonized in Kilns	55599	625	7779	000
"    "    retorts	16476	000	2220	000
Used Chemical Plant No.1	425	750	78	250
"    Furnace Boilers	260	250	90	000
"    Club House	7		4	000
"    Lime House			1	000
"    Retorts - fuel	164			
"    Thawing ore	23	750		
"    Loading alcohol	1			
"    Locomotive	12			
Sold to tenants	223	500	169	500
Total wood consumed	73192	875	10341	750
<b>Wood on hand:</b>				
Inventory Dec. 1st, 1906, Kilns,	3654	500		
"    "    "    "    Yard	32	500		
"    "    "    1905 Kilns			4891	375
"    "    "    "    Yard			2666	750
<b>T O T A L</b>	3687	000	7558	125

# THE CLEVELAND-CLIFFS IRON COMPANY

PIONEER FURNACE NO. 1.

Years 1905 - 1906.

Form 75 200 9-05 D

COMPARATIVE  
WOOD COST SHEET.

	PARSONS						MATHEWS						LIMESTONE											
	CORDS PRODUCED 1906						CORDS PRODUCED 1905						CORDS PRODUCED 1906						CORDS PRODUCED 1905					
	AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD									
	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905								
Chopping,	1831	61	6992	44	1 000	842	21084	42	19695	43	1 000	885	4850	43	3163	19	1.000	868						
Stumpage,							2319	80	2447	00	110	110	533	56	403	42	.110	110						
Foreman and Measuring,	95	00	571	79	052	069	522	20	352	93	024	038	70	00	94	98	.014	025						
Traveling Expense,	185	21	208	07	101	025	212	55	190	72	010	008	180	41	130	13	.037	035						
Exchange,	14	20	10	80	008	001	31	90	18	55	002	001	6	40	3	30	.001	001						
General Expense,	118	00	167	89	064	022	218	14	54	80	010	003	84	70	13	28	.017	004						
Fire Protection,	40	70	243	41	022	029	32	28	101	32	002	005	2	25	205	30	.000	055						
Superintendent,	240	32	507	92	131	061	1399	50	1211	78	066	055	392	04	076	81	.082	184						
Taxes,	323	24	1053	50	177	126	2842	60	2949	11	135	132	454	73	28	40	.094	008						
Spurs and Barns,	183	11			100		531	00	1117	28	025	050	91	17			.019							
<b>Total Cost at Stump,</b>	<b>3031</b>	<b>45</b>	<b>9755</b>	<b>83</b>	<b>1 655</b>	<b>1 175</b>	<b>29104</b>	<b>49</b>	<b>28030</b>	<b>03</b>	<b>1 384</b>	<b>1 287</b>	<b>6666</b>	<b>29</b>	<b>4723</b>	<b>81</b>	<b>1.374</b>	<b>1 288</b>						
Inventory Cost per Cord November 30th, 1905					1 026	988					1 250	1 229					1 173	1 108						
Cost per Cord 12 Months, 1905					1 175						1 287						1 288							
Cords Shipped 1906	33110 $\frac{1}{2}$						35499 $\frac{3}{4}$						9263 $\frac{1}{2}$											
Cords Shipped 1905	6262 $\frac{3}{4}$						5870 $\frac{1}{2}$																	
	AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD		AMOUNT		COST PER CORD									
	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905	1906	1905								
Cost of Wood at Stump,	33971	98	6187	00	1 026	988	44592	95	7214	53	1 256	1 230	10800	50			1.173							
Hauling and Loading,	32450	06	5977	50	980	954	32137	06	5159	45	905	877	9221	40			.995							
Freight,	13148	00	2452	50	397	392	9304	00	1503	00	262	255												
Switching in Furnace Yard,	909	86	203	04	028	032	993	27	175	01	029	029												
Piling in Furnace Yard,	141	75	306	02	167	188	129	09	219	94	164	185												
<b>Total Cost at Furnace,</b>	<b>80622</b>	<b>25</b>	<b>15127</b>	<b>92</b>	<b>2 435</b>	<b>2 415</b>	<b>87150</b>	<b>97</b>	<b>14262</b>	<b>93</b>	<b>2 456</b>	<b>2 429</b>	<b>20088</b>	<b>02</b>			<b>2 168</b>							
Average Cost per Cord from all sources on yard,					2 602	2 374																		
Average Cost per Cord from all sources on trestle,					2 047	2 302																		

REMARKS:



# The Cleveland-Cliffs Iron Co.

FURNACE DEPARTMENT.

CORRECTED

SUTHERLAND-INNES COST SHEET

YEAR 1906

Cords produced

24615 $\frac{5}{8}$

	Amount		Cost per Cord
Chopping,	24615	30	1 000
Stumpage,	2707	69	110
Foreman and Measuring,	544	73	022
Traveling Expense,	421	44	017
Exchange,	35	40	001
General Expense,	378	91	015
Fire Protection,	29	32	001
Superintendent,	1715	67	071
T a x e s,	3038	11	123
Spurs and Barns,	573	87	023
<b>Total Cost At Stump</b>	<b>34060</b>	<b>44</b>	<b>1 383</b>

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

*SMW*

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Algen Wood Cost Sheet - - - - - Year, 1906

THE CLEVELAND-CLIFFS IRON CO.  
 WOOD COST SHEET  
 V. 1  
 1906

	Amount	Cost Per Cord
Cords produced	602	
Chopping	602.00	1.000
Stumpage	66.22	.110
Foreman & Measuring		
Traveling Expense	47.83	.079
Exchange		
General Expense	95 91	.159
Fire Protection		
Superintendent	50.83	.085
Taxes		
Spurs & Barns		
Total Cost at Stump. . . . .	.862 79	1.433

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Cost of Loading and Hauling **PARSONS** Wood, Year ending Nov. 30th 1906

Loaded and Hauled this Month ..... Cords.

Loaded and Hauled **12** Months **33110<sup>3</sup>/<sub>4</sub>** Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	8444 90	61 37	8506 27			257
Swampers	3497 26	52 95	3550 21			107
Car Loaders	2932 86	3 60	2936 46			089
Foreman	925 00	35 87	960 87			029
<b>Mrs. F. Caron, Contractor</b>		312 19	312 19			009
TOTAL,	15800 02	465 98	16266 00			491
<b>Roads—</b>						
Making and Maintaining	2398 47	3 18	2401 65			073
TOTAL,	2398 47	3 18	2401 65			073
<b>Barn—</b>						
Hay	18 88	1403 15	1422 03			043
Oats	11 85	2683 32	2695 17			082
Feed and Bran		21 82	21 82			001
Shoeing and Shoes	600 00	61 97	661 97			020
Oil and Grease		13 22	13 22			000
Horse Medicine		81 04	81 04			002
Barn Boss	605 54		605 54			018
TOTAL,	1236 27	4264 52	5500 79			166
<b>Repairs—</b>						
Wagons and Drays		47 22	47 22			001
Sleighs		18 98	18 98			001
Harness		118 45	118 45			004
Buildings	9 55	37 39	46 94			001
TOTAL,	9 55	222 04	231 59			007
COST TO LOAD,	19444 31	4955 72	24400 03			737
<b>Miscellaneous—Rep Spurs</b>						
Depreciation	8 11	316 78	324 89			010
Taxes		2519 65	2519 65			076
Spurs & Barns		993 29	993 29			030
Gen'l. Expense		3310 91	3310 91			100
		185 21	185 21			006
TOTAL,	8 11	7325 84	7333 95			222
Keeping horses idle period		716 68	716 68			021
Total Cost on Cars 1 Month						
Total Cost on Cars 12 Months	19452 42	12998 24	32450 66			980

**Remarks:**

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

**Cost of Loading and Hauling**     **M A T H E W S**     **Wood, Year Ending Nov. 30th 1906**

Loaded and Hauled this Month ..... Cords.  
Loaded and Hauled **12** Months **25499 1/2** Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	7573 00	45 45	7618 51			215
Swampers	7931 10	70 30	8001 40			220
Car Loaders	2103 51	11 81	2115 32			060
Foreman	820 00	17 94	837 94			023
TOTAL,	18427 07	145 50	18573 23			524
<b>Roads—</b>						
Making and Maintaining	434 80		434 80			012
TOTAL,	434 80		434 80			012
<b>Barn—</b>						
Hay	18 45	1638 05	1656 50 /			046
Oats	14 90	2530 27	2545 17 /			072
Feed and Bran						
Shoeing and Shoes	607 10	120 49	727 59 /			021
Oil and Grease		18 85	18 85 /			001
Horse Medicine		107 08	107 08 /			003
Barn Boss	638 10	2 45	640 55 /			018
TOTAL,	1278 55	4417 19	5695 74			161
<b>Repairs— Well</b>						
Wagons and Drays	12 00	8 93	20 99			001
Slighs		13 23	13 23			000
Harness		33 30	33 30			001
Buildings		197 42	197 42			005
	15 12	54 10	69 22			002
TOTAL,	27 18	307 04	334 22 /			009
COST TO LOAD,						
	20168 20	4809 79	25038 05			700
<b>Miscellaneous—Rep. Spurs</b>						
Depreciation		34 99	598 43			017
Moving Equipment		2059 10	2059 10			073
Spurs & Barns		12 00	12 00			000
		3126 02	3126 02			090
TOTAL,	563 44	5832 11	6395 55			180
<b>Keeping horses idle period</b>						
		704 00	704 00			019
Total Cost on Cars 1 Month						
Total Cost on Cars 12 Months	20731 70	11405 90	32137 00			905

**Remarks: DEPRECIATION:-**

Death of two horses	218.10
Loss on sales	<u>161.60</u>
	379.82

# THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

**Cost of Loading and Hauling**      **LIMESTONE**      **Wood, Year ending Nov. 30th 1906**

Loaded and Hauled this Month ..... Cords.  
Loaded and Hauled **12** Months **9203 1/2** Cords.

	Labor	Supplies	Total	Cost per Cord	
				Total Months	1 Mo. <b>12</b> Mos.
<b>Teaming—</b>					
Teamsters	2191 15	14 95	2206 10		238
Swampers	1876 57	19 80	1896 37		205
Car Loaders	645 90		645 90		070
Foreman	332 00		332 00		036
TOTAL,	5045 71	34 75	5080 46		549
<b>Roads—</b>					
Making and Maintaining	5 40		5 40		000
TOTAL,	5 40		5 40		000
<b>Barn—</b>					
Hay	3 96	438 93	442 89		048
Oats	2 60	1220 84	1223 44		133
Feed and Bran					137
Shoeing and Shoes	315 50	13 27	328 77	/	035
Oil and Grease					
Horse Medicine		39	39	/	000
Barn Boss	176 00		176 00	/	019
TOTAL,	499 06	1679 43	2178 49		235
<b>Repairs—</b>					
Wagons and Drays		10 42	10 42		001
Sleighs					
Harness		176 56	176 56		019
Buildings		8 63	8 63		001
TOTAL,		195 61	195 61		021
COST TO LOAD,	5550 17	1909 79	7459 96		805
<b>Miscellaneous—</b>					
Depreciation		835 13	835 13		090
<b>Taxes</b>		757 69	757 69		082
<b>Spurs &amp; Barns</b>	168 68	168 68	168 68		018
TOTAL,		1761 50	1761 50		190
Total Cost on Cars 1 Month					
Total Cost on Cars <b>12</b> Months					
	5550 17	3671 29	9221 46		995

**Remarks: DEPRECIATION:-**

Death of one horse, \$40.50

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS-BUCKEYE LOG JOB

November 30th, 1906.

<u>COST OF PRODUCTION</u>	<u>Labor</u>	<u>Supplies</u>	<u>Total</u>
Swamping	646.44	12.58	659.02
Teaming	357.18	188.98	546.16
Road Making	16.20		16.20
Sawing	135.44	1.10	136.54
Depreciation of Barn Equipment		90.00	90.00
Depreciation of Spurs 189913 ft. logs @ 50¢		94.96	94.96
TOTAL	1155.26	387.62	1542.88

SALES (N.W. Cooperage & Lumber Co., Gladstone, Mich)

Ash	logs	12176 ft. @ 10.50	127.85
Hemlock	"	1097 " @ 7.00	7.68
Maple	"	49 " @ 7.00	.34
Elm	"	98356 " @ 4.50	442.60
Basswood	"	78235 " @ 4.50	352.05
Total Sales			930.52

	<u>Debit</u>	<u>Credit</u>
Cost of production	1542.88	
Sales		930.52
To balance		612.36
Totals	1542.88	1542.88

The sales of Elm and Basswood logs are covered by our contract with the Northwestern Cooperage & Lumber Co, to operate for them; the other logs sales are Mathews Tract stumpage.

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

PARSONS-ROBERTS JOB

November 30th, 1906.

Contract with Jacob Roberts, Cooks, Michigan, for operating hemlock logs, hemlock bark and birch logs near our old Cliffs Camp as follows:

Bark	Loaded on cars	4.00 per cord
Hemlock logs	Banked on Russells Spur	4.50 " M
Birch	" " " "	5.00 " M

We agreed to make advances as follows:

Bark	On Russells Spur	3.00 per cord
Hemlock logs	Decked in woods	2.00 " M

CONDITION OF WORK:

Advances

Hemlock logs	101638 ft. @ 2.00	203.28
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There have been no settlements or sales made.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SECTION 33 LOG JOB

November 30th, 1906.

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This pertain to three forties in Section 33-44-21, namely E $\frac{1}{2}$  of NE $\frac{1}{4}$  and NW $\frac{1}{4}$  of NE $\frac{1}{4}$ , U. P. Lands, from which we have removed the cordwood and paid 25¢ stumpage. There remained on this land certain outside stumpage of which we purchased the elm and basswood from the land department at the price of \$6.00 stumpage. We sold this elm and basswood to the Buckeye Company at \$11.50 per M. We gave a verbal contract to Alfred Delosh to operate and deliver alongside of Mathews Spur this elm and basswood at \$4.00 per M., which should leave us a margin of \$1.50 per M.

Incidentally, we have agreed to remove the balance of the stumpage from these descriptions if we can do so at a profit, but to date no agreement has been made as to price for stumpage and no contract has been let for its operating.

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## CONDITION OF WORK

### Advances

Elm & Basswood	125000 ft. @ 2.00	250.00
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There have been no settlements or sales made.



NOTE:

PARSONS 1904 - 5 LOG SALE

0.

This job was completed in the year 1905  
with the exception of the sales of logs marked #  
on the statement attached.

November 30th, 1906.

				Amount	
	Elm	368355	10 50	3867 73	
	Basswood	342298	10 50	3594 12	
	Birch	40900	7 75	316 97	
	Hemlock	7741	6 00	46 44	
	Ash	3205	7 75	24 84	
	Balm of Gilead	590	7 75	4 55	
#	Hemlock	110754	7 00	775 28	
#	Basswood	5255	11 25	59 12	
#	Elm	2286	11 25	25 72	
#	Birch	1074	10 00	10 74	
	<b>TOTAL</b>	<b>882458</b>		<b>8725 51</b>	
<b>COST OF PRODUCTION</b>			<b>Labor</b>	<b>Supplies</b>	<b>Total</b>
<b>Teaming</b>					
	Teamsters		611 47	17 92	629 39
	Swampers		283 20	25 59	308 79
	Foreman		230 00		230 00
	<b>Total</b>		<b>1124 67</b>	<b>43 51</b>	<b>1168 18</b>
<b>Logs</b>					
	Sawing		570 23	9 65	579 88
	Banking		159 74	26 52	186 26
	<b>Total</b>		<b>729 97</b>	<b>36 17</b>	<b>766 14</b>
<b>Barn</b>					
	Horse Feed			671 73	671 73
	Shoeing & Shoes		126 34	12 92	139 26
	Barn Boss		159 66	1 80	161 46
	Horse Medicine			5 58	5 58
	<b>Total</b>		<b>286 00</b>	<b>692 03</b>	<b>978 03</b>
<b>Repairs</b>					
	Buildings		14 40	12 93	27 33
	Sleighs			25 16	25 16
	Harness			13 48	13 48
	<b>Total</b>		<b>14 40</b>	<b>51 57</b>	<b>65 97</b>
<b>General Expense</b>					
	Traveling			32 00	32 00
	Exchange			2 10	2 10
	Meals			16 20	16 20
	Livery			2 50	2 50
	Postage			52	52
	<b>Total</b>			<b>53 32</b>	<b>53 32</b>
<b>Miscellaneous</b>					
	Depreciation of Equipment			960 62	960 62
	Moving Equipment		10 08		10 08
	<b>Total</b>		<b>10 08</b>	<b>960 62</b>	<b>970 70</b>
<b>Roads</b>					
	Making and Maintaining		250 98		250 98
	<b>Total</b>		<b>250 98</b>		<b>250 98</b>
#	<b>Credits</b>			<b>20 00</b>	<b>20 00</b>
	<b>Total cost of production</b>		<b>2416 10</b>	<b>1817 22</b>	<b>4233 32</b>

# Timber scales during the year 1906.

## Credit: Rental of teams to P. Archambault in 1905.

ON THE AGREEMENT WHEREBY  
 WITH THE EXCEPTION OF THE WAGES OF 1884 IN 1904  
 INTO THE AREA COVERED BY THE LEAS. 1902

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Parsons 1904 - 5 Log Sale - - - - - November 30th, 1906.

Timber Scales	Feet	Price	Amount
Elm	368355	10 50	3867 73
Basswood	342298	10 50	3594 12
Birch	40900	7 75	316 97
Hemlock	7741	6 00	46 44
Ash	3205	7 75	24 84
Balm of Gilead	590	7 75	4 55
Hemlock	110754	7 00	775 28
Basswood	5255	11 25	59 12
Elm	2286	11 25	25 72
Birch	1074	10 00	10 74
<b>TOTAL</b>	<b>882458</b>		<b>8725 51</b>

COST OF PRODUCTION		Labor	Supplies	Total
<b>Teaming</b>				
Teamsters		611 47	17 92	629 39
Swampers		283 20	25 59	308 79
Foreman		230 00		230 00
<b>Total</b>		<b>1124 67</b>	<b>43 51</b>	<b>1168 18</b>
<b>Logs</b>				
Sawing		570 23	9 65	579 88
Banking		159 74	26 52	186 26
<b>Total</b>		<b>729 97</b>	<b>36 17</b>	<b>766 14</b>
<b>Barn</b>				
Horse Feed			671 73	671 73
Shoeing & Shoes		126 34	12 92	139 26
Barn Boss		159 66	1 80	161 46
Horse Medicine			5 58	5 58
<b>Total</b>		<b>286 00</b>	<b>692 03</b>	<b>978 03</b>
<b>Repairs</b>				
Buildings		14 40	12 93	27 33
Sleighs			25 16	25 16
Harness			13 48	13 48
<b>Total</b>		<b>14 40</b>	<b>51 57</b>	<b>65 97</b>
<b>General Expense</b>				
Traveling			32 00	32 00
Exchange			2 10	2 10
Meals			16 20	16 20
Livery			2 50	2 50
Postage			52	52
<b>Total</b>			<b>53 32</b>	<b>53 32</b>
<b>Miscellaneous</b>				
Depreciation of Equipment			960 62	960 62
Moving Equipment		10 08		10 08
<b>Total</b>		<b>10 08</b>	<b>960 62</b>	<b>970 70</b>
<b>Roads</b>				
Making and Maintaining		250 98		250 98
<b>Total</b>		<b>250 98</b>		<b>250 98</b>
<b># Credits</b>			<b>20 00</b>	<b>20 00</b>
<b>Total cost of production</b>		<b>2416 10</b>	<b>1817 22</b>	<b>4233 32</b>

# Timber scales during the year 1906.  
 ## Credit: Rental of teams to P. Archambault in 1905.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

PARSONS-WILLIAMS LOG JOB

November 30th, 1906

Contract with Milton Williams, Cooks, Mich., for operating timber on Section 2 - 41 - 17 as follows:

Hemlock logs	Banked on Russells Spur	4.25 per M
Birch "	" " " "	4.50 " M
Ash "	" " " "	4.50 " M
Basswood "	" " " "	4.50 " M
Elm "	" " " "	4.50 " M
Hemlock bark	Loaded on cars	4.00 " Cord
<u>Ties</u>		
6" Hemlock	Banked on Russells Spur	.16
7" "	" " " "	.18
5" Cedar	" " " "	.15
6" "	" " " "	.18
7" "	" " " "	.20
<u>Cedar Posts</u>		
3" to 4"	" " " "	.04
4" " 8"	" " " "	.05

We agreed to make advances as follows:

Hemlock logs	Skidded in woods	2.50 per M
Birch "	" " "	2.75 " M
Ash "	" " "	2.75 " M
Basswood "	" " "	2.75 " M
Elm "	" " "	2.75 " M
Hemlock bark	Piled on roads	2.75 " Cord
<u>Ties</u>		
6" Hemlock	Bunched on roads	.10
7" "	" " "	.11
5" Cedar	" " "	.09
6" "	" " "	.11
7" "	" " "	.13

CONDITION OF WORK:

Advances

Hemlock logs <sup>b</sup>	568961 ft. @ 2.50	1422.40
Birch "	21134 " @ 2.75	58.12
Bark	80 cds @ 2.75	220.00
No.1 Ties	4036 Hemlock )	
" "	881 Cedar )	579.19
No.2 "	1794 Hemlock )	
" "	393 Cedar )	<u>221.59</u>
Total advances		2501.30

Settlements

Hemlock logs	38274 ft. @ 4.50	172.23
Birch "	24539 " @ 4.50	110.43
Basswood "	656 " @ 4.50	2.95
No.1 Ties	316 Hemlock	56.61
No.2 "	316 "	<u>50.29</u>
Total settlements		392.51

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# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

PARSONS-WILLIAMS LOG JOB - Sheet No.2 -

November 30th, 1906.

CONDITION OF WORK - Continued:

Miscellaneous

Loading ties		20.21
Taxes		6.19
Scaling		6.00
Depreciation of Spurs		46.96
63469 feet logs	@ .50 per M	31.73
1523 ties	@ .01 each	15.23
<b>Total Miscellaneous</b>		<b>79.36</b>

SALES:

Hemlock logs	38274 ft. @ 7.00	267.92
Birch "	24539 " @ 10.00	245.39
Basswood "	656 " @ 11.25	7.38
No.1 Hem. ties	891 @ .25	222.75
" " "	121 @ .21	25.41
" " "	195 @ .16	31.20
No.2 " "	121 @ .19	22.99
" " "	195 @ .14	27.30
<b>Total Sales</b>		<b>850.34</b>

	<u>Debit</u>	<u>Credit</u>
Advances	2501.30	
Settlements	392.51	
Miscellaneous charges	79.36	
Sales		850.34
To balance		2122.83
<b>Totals</b>	<b>2973.17</b>	<b>2973.17</b>

Detail of Material sold and used:

The logs were sold to the N. W. Cooperage & Lumber Co.,  
Gladstone, Michigan.

891 ties @ 25¢ sold to White Marble Lime Co., Manistique,  
Michigan.

The balance of the ties were used in maintenance of  
Parsons Spur.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

PARSONS-CORNELL JOB

November 30th, 1906.

Contract with F. J. Cornell, Cooks, Mich., for operating hemlock bark, hemlock logs and birch logs on our sections 18-41-17 and 12-41-18 as follows:

Bark	Loaded on cars	4.00 per cord
Hemlock logs	Banked on Russells Spur	4.00 " M
Birch	" " " " "	5.00 " M

We agreed to make advances as follows:

Bark	On Russells Spur	3.00 per cord
Hemlock logs	Decked in woods	2.00 " M

CONDITION OF WORK:

Advances

Hemlock logs	294907 ft. @ \$2.00	589.81
Bark	50 cds @ 2.00	100.00
<b>Ties</b>		
7" Hemlock	748 @ .11	82.28
6" "	241 @ .10	24.10
5" "	101 @ .10	10.10
Total Advances		806.29

Settlements

<b>Ties</b>		
5" Hemlock	34 @ .14	4.76
TOTAL		811.05

There have been no sales made.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS-DELOSH JOB

November 30th, 1906.

Contract with Alfred Delosh, Trenary, Mich., for operating timber on our Mathews Tract as follows:

Hemlock logs	Banked on Mathews Spur	3.50 per M
Cedar "	" " " "	4.00 " M
Tamarack "	" " " "	3.50 " M
Birch "	" " " "	3.50 " M
Hemlock bark	Loaded on cars	4.00 " Cord
<u>No.1 Ties</u>		
Hemlock	Banked on Mathews Spur	.15
Cedar	" " " "	.20
<u>No.2 Ties</u>		
Hemlock	" " " "	.13
Cedar	" " " "	.15

We agreed to make advances as follows:

**Logs** Advances monthly on foreman's scale at the above prices less 10%. Logs delivered alongside of track.

**Bark** Advances monthly on foreman's scale at the above price less 40%. Bark in woods.

## CONDITION OF WORK

### Advances

Hemlock logs	95963 ft. @ 3.50 less 10%	302.29
Cedar "	23906 " @ 4.00 " "	86.06
Birch "	14720 " @ 3.50 " "	45.37
Tamarack "	1465 " @ 3.50 " "	4.61
Hemlock bark	103 $\frac{7}{8}$ cds @ 4.00 " 40%	<u>249.30</u>
Total Advances		687.63

### Settlements

Cedar logs	58700 ft. @ 4.00	234.80
" posts	260 @ 5 $\frac{1}{2}$ <sup>c</sup>	14.29
No.1 ties Hemlock	2002 @ .15	300.30
" " Cedar	4446 @ .20	889.20
No.2 " Hemlock	774 @ .13	100.62
" " Cedar	2242 @ .15	<u>336.30</u>
Total Settlements		1875.51

### Miscellaneous

Depreciation of Spurs		57.34
58700 feet logs @ .50	29.35	
2799 ties @ .01	27.99	
Cedar Poles	Miscellaneous sizes (123)	87.13

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS-DELOSH JOB - Sheet No.2 -

November 30th, 1906.

SOLD and USED:

Cedar logs	58700 ft.	@ 7.00	410.90
No.1 ties Hemlock	325	@ .33	107.25
" " "	500	@ .15	75.00
No.2 " "	374	@ .13	48.62
" " Cedar	1600	@ .15	<u>240.00</u>
Total Sold and Used			881.77

	<u>Debit</u>	<u>Credit</u>
Advances	687.63	
Settlements	1875.51	
" Cedar Poles	87.13	
Miscellaneous Charges	57.34	
Sold and Used		881.77
To balance		<u>1825.84</u>
Totals	2701.61	2701.61

DETAIL OF MATERIAL SOLD AND USED:

B. J. Morgan, Traverse City, Mich. 58700 ft. cedar logs  
 Used for renewals yard tracks at Gladstone Furnace 325 No.1 Hemlock ties.

Used in construction of 1906 Extension Mathews-Delta Railway  
 500 No.1 Hemlock, 374 No.2 Hemlock and 1600 No.2 Cedar ties.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS--THOMPSON JOB

November 30th, 1906.

Contract with William Thompson, Trenary, Mich., for operating timber on Section 28-44-21 as follows:

Hemlock bark	Loaded on cars	4.00 per cord
Hemlock logs	Banked on Mathews Spur	4.00 " M
Birch "	" " " "	4.50 " M
Cedar "	" " " "	4.00 " M
<u>Ties:</u>		
No.1 Hemlock	" " " "	.15
No.2 "	" " " "	.13
No.1 Cedar	" " " "	.20
No.2 "	" " " "	.15

We agreed to make advances as follows:

Hemlock bark	Estimated in woods	2.24 per cord
Hemlock logs	Decked in woods	2.00 " M
<u>Ties:</u>		
No.1 Hemlock	Bunched in woods	.10 each
No.2 "	" " "	.08 "
No.1 Cedar	" " "	.13 "
No.2 "	" " "	.10 "

CONDITION OF WORK:

Advances

Hemlock logs	92680 ft. @ 2.24	207.60
" "	191062 " @ 2.00	381.32
Birch "	2620 " @ 2.00	5.25
Cedar "	616 " @ 2.24	1.38
" "	1161 " @ 2.00	2.33
Pine "	1007 " @ 2.24	2.25
" "	2423 " @ 2.00	4.84
Elm "	125 " @ 2.00	.25
Hemlock bark	200 cds @ 2.24	448.00
Total advances		1053.22

Settlements

Hemlock logs	11935 ft. @ 4.00	47.74
Cedar "	2352 " @ 4.00	9.40
Total Settlements Logs		57.14

Ties:

No.1 Hemlock	678	)	
No.1 Cedar	1192	)	315.10
No.2 Hemlock	246	)	
No.2 Cedar	536	)	106.03
Cedar Posts	409 @ 5¢		20.45

Total Settlements Ties and Posts 441.58

Miscellaneous

Depreciation of Spurs		7.91
791 ties @ 1¢ each	7.91	



# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS-THOMPSON JOB - Sheet No.2 -

November 30th, 1906.

SOLD AND USED:

No.1 Ties	288 Hemlock	@ 15¢	43.20
No.2 Ties	42 "	@ 13¢	5.46
" "	461 Cedar	@ 15¢	69.15
Total Sold and Used			117.81

	<u>Debit</u>	<u>Credit</u>
Advances	1053.22	
Settlements      Logs	57.14	
"      Ties and Posts	441.58	
Miscellaneous charges	7.91	
Used and Sold		117.81
To balance		1442.04
Totals	1559.85	1559.85

Detail of material sold and used:

Ties used in construction of 1906 Extension Mathews-Delta Ry.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

LABOR STATEMENT

--

Years 1905-06.

	No. Men 1905	No. Men 1906.	No. Days	Earnings	Rate per day	
					1906	1905
<u>MATHEWS BUCKEYE LOG JOB</u>						
Teamsters		2	147 3	262 43	1 78	
Swampers		3	292 6	513 57	1 75	
Sawyers		2	77 4	135 44	1 75	
Total		7	517 3	911 44	1 76	
<u>PARSONS LOG SALE:</u>						
Foreman	$\frac{1}{2}$					2 42
Teamsters	4					1 65
Swampers	3					1 60
Landing Men	1					1 65
Roadmakers	2					1 60
Barn Boss	$\frac{1}{2}$					1 63
Blacksmith	$\frac{1}{2}$					1 64
Sawyers	4					1 65
Total	$15\frac{1}{2}$					1 70
<u>MATHEWS BARK &amp; LOG JOB</u>						
Foreman	$\frac{1}{2}$					3 33
Teamsters	2					1 65
Swampers	3					1 62
Car Loaders						
Total	$5\frac{1}{2}$					1 70
<u>BUCKEYE LOG JOB</u>						
Foreman	$\frac{1}{2}$					3 19
Teamsters	3					1 65
Swampers	9					1 60
Sawyers	5					1 60
Barn Boss	1					1 60
Blacksmith	1					1 90
Total	$24\frac{1}{2}$					1 68

# THE CLEVELAND-CLIFFS IRC

PIONEER FURNACE NO. 1.

## COMPARATIVE LABOR STATEMENT FOR Years 1905 and 1906.

190

	No. Men 1905	No. Men	No. Days	Earnings.		Rate per Day.			No. Men 1906	No. Men	No. Days	Earnings.		Rate per Day.	
				1905	1906	1905	1906					1906	1905		
<b>FURNACE--</b>															
Engineers,	2	2	730 0	1918 40	2 03	2 18									
Firemen,	1	2	740 0	1357 02	1 33	1 66									
Founders,	1	2	730 0	2500 00	3 54	4 22									
Keepers,	2	2	724 5	1649 00	2 28	2 26									
Helpers,	8	8	2870 0	5500 74	1 95	1 91									
Top Fillers,	4	4	1450 0	2721 33	1 88	1 80									
Bottom Fillers,	14	14	5251 8	9209 83	1 77	1 76									
Cinder Snappers,	4	4	1492 7	2716 14	1 82	1 72									
Iron Grader,	1	1	365 0	685 45	1 88	1 85									
Iron Handlers,	0	0	2175 5	5148 27	2 36	2 28									
Coal Forkers,	12	12	4408 0	8187 15	1 86	1 76									
Coal Car Pushers,	2	2	710 0	1270 14	1 73	1 75									
Sand Man,	1	1	416 0	763 72	1 83	1 72									
<b>Total,</b>	<b>58</b>	<b>60</b>	<b>22077 7</b>	<b>42903 39</b>	<b>1 99</b>	<b>2 17</b>									
<b>CHEMICAL PLANT NO. 1--</b>															
Stillmen,	9	8	2800 5	5601 07	1 95	1 92									
Engineers,	3	4	1403 1	2900 56	2 11	2 04									
Firemen,	2	1	258 8	474 59	1 83	1 92									
Condensermen	1	2	302 5	524 55	1 45	1 85									
Watchman			20	32 00	1 90										
<b>Total,</b>	<b>15</b>	<b>15</b>	<b>4943 9</b>	<b>9659 37</b>	<b>1 95</b>	<b>1 92</b>									
<b>ACETATE PLANT NO. 1--</b>															
Rakers,	1	1	324 5	819 37	2 53	2 74									
Skimmers,	1	3	857 0	1724 41	2 01	2 74									
Firemen	1	1	300 0	715 19	1 83	1 80									
<b>Total,</b>	<b>3</b>	<b>5</b>	<b>1572 4</b>	<b>3258 97</b>	<b>2 07</b>	<b>2 30</b>									
<b>KILNS--</b>															
Colliers,	5	5	1797 1	3647 82	2 03	2 02									
Whitewashers,	2	2	725 0	1350 21	1 87	1 85									
Packers,	11	18	5109 1	9500 05	1 85	1 80									
Packer Foreman,	1	1	365 0	780 00	2 14	2 13									
Kiln Cleaner,	1	1	360 0	669 18	1 85	1 70									
Breezeman,	1	2	530 0	910 41	1 63	1 70									
Wood Handlers,	7	2	111 0	1125 07	1 84	1 75									
<b>Total,</b>	<b>28</b>	<b>31</b>	<b>9568 6</b>	<b>18002 74</b>	<b>1 89</b>	<b>1 83</b>									
<b>PARSONS WOOD JOB--</b>															
Foreman and Measuring,	1		43 1	110 00	2 71	2 38									
Chopping 1831 $\frac{1}{2}$ Cords	10	5	810 0	1831 61	2 25	1 60									
Fire Protection,	3		10 0	28 30	1 71	1 05									
Superintendent,	1		44 3	240 32	5 43	4 97									
Spurs and Barns, & Misc	2		15 2	27 30	1 80	1 87									
<b>Total,</b>	<b>23</b>	<b>5</b>	<b>935 2</b>	<b>2244 19</b>	<b>2 40</b>	<b>1 71</b>									
<b>PARSONS LOADING JOB--</b>															
Foreman,	1	1	333 0	925 00	2 77	2 47									
Teamsters,	2	15	4764 0	8444 90	1 77	1 75									
Swampers,	4	8	2011 1	3551 19	1 77	1 70									
Car Loaders,	4	5	1600 8	2932 80	1 70	1 75									
Road Makers,	5	5	1373 3	2398 47	1 75	1 70									
Barn Boss,	1	1	365 0	600 00	1 64	1 64									
Blacksmith,	1	1	365 0	600 00	1 64	1 64									
<b>Total,</b>	<b>18</b>	<b>36</b>	<b>10879 1</b>	<b>19452 42</b>	<b>1 79</b>	<b>1 75</b>									
<b>LIMESTONE WOOD JOB--</b>															
Foreman and Measuring,			24 9	70 00	2 81	3 00									
Chopping 4850 $\frac{1}{2}$ Cords,	0	9	2758 0	4850 43	1 70	1 70									
Fire Protection,			4 5	25 00	5 55										
Superintendent,	1		63 1	307 04	5 83	5 18									
Spurs and Barns,															
<b>Total,</b>	<b>7</b>	<b>9</b>	<b>2850 5</b>	<b>5313 07</b>	<b>1 80</b>	<b>1 80</b>									
<b>LIMESTONE LOADING JOB--</b>															
Foreman,		1	176 1	332 00	1 89										
Teamsters,		9	1226 5	2191 15	1 79										
Swampers,		7	1055 0	1880 17	1 78										
Car Loaders,		2	353 2	645 99	1 83										
Road Makers,			5 2	9 36	1 80										
Barn Boss,		1	176 0	170 00	1 00										
Blacksmith,		1	172 3	315 50	1 83										
<b>Total,</b>		<b>21</b>	<b>3164 9</b>	<b>5550 17</b>	<b>1 75</b>										
<b>MISCELLANEOUS--</b>															
Barn Boss,	1	1	365 0	600 00	1 64	1 65									
Teamsters and Helpers,	1	2	658 0	1250 29	1 90	1 55									
Blacksmith,	1	1	345 2	933 80	2 70	2 55									
Blacksmith Helpers,	1	1	348 7	571 51	1 64	1 60									
Machinists,	1	3	993 2	2752 10	2 77	2 28									
Machinist Helpers,	6	8	2728 2	5069 95	1 80	1 90									
Carpenters,	7	12	3474 2	7217 57	2 08	2 12									
Locomotive Engineers,	1	1	360 8	1029 29	2 81	2 75									
Brakeman,	1	1	360 8	904 03	2 67	2 60									
Electrician	1	1	365 0	600 00	1 64	2 46									
Steward	1	1	365 0	1020 00	2 80	2 52									
Yard Foreman,	1	1	365 0	1020 00	2 80	2 52									
Labors,	35	17	6619 6	11188 44	1 69	1 55									
Laboratory Boys,	1	1	399 5	935 10	2 34	2 40									
Watchman	2	1	30 0	60 00	2 00	1 50									
Masons,	2	1	62 8	251 20	4 00	3 82									
Helpers,			2 78 2	149 89	1 92										
<b>Total,</b>	<b>63</b>	<b>54</b>	<b>17561 1</b>	<b>34593 17</b>	<b>1 97</b>	<b>1 86</b>									
<b>CHEMICAL PLANT, NO. 2.</b>															
Stillmen,	5	5	1775 9	3522 79	1 98	1 96									
Watchman			10 0	19 00	1 90										
Firemen,	3	2	887 2	1621 41	1 83	1 81									
Labors,															
<b>Total,</b>	<b>8</b>	<b>7</b>	<b>2073 1</b>	<b>5163 20</b>	<b>1 93</b>	<b>1 90</b>									
<b>ACETATE PLANT, NO. 2--</b>															
Rakers,	3	1	351 5	777 95	2 21	1 85									
Skimmers,	1	2	599 0	1106 82	1 85	1 82									
Firemen	1	1	378 2	694 14	1 83	1 80									
<b>Total,</b>	<b>5</b>	<b>4</b>	<b>1328 7</b>	<b>2578 91</b>	<b>1 84</b>	<b>1 82</b>									
<b>RETORTS--</b>															
Foreman,	1	1	365 0	880 00	2 41	2 14									
Fireman,	4	4	1430 0	2767 50	1 93	1 90									
Winch and Mudman,	1	1	353 0	644 70	1 83	1 80									
Wood Loaders,	7	6	2180 4	3952 64	1 80	1 80									
Retort Wood Splitters	5	4	1404 5	2645 44	1 88	2 32									
Fuel Man,	1	1	331 0	621 37	1 88	1 85									
<b>Total,</b>	<b>19</b>	<b>17</b>	<b>6078 9</b>	<b>11512 15</b>	<b>1 90</b>	<b>1 95</b>									
<b>MATTHEWS WOOD JOB--</b>															
Foreman and Measuring,	1	1	181 6	545 48	3 00	2 90									
Chopping 21085 Cords,	41	41	12580 0	21084 42	1 08										

DETAIL OF Yearly 1905-06

LABOR STATEMENT

COMPARATIVE  
LABOR STATEMENT.

Years, 1905 and 1906. 190...

	No. Men	No. Days	Earnings	
FURNACE—				
Not including office,	75½	27231 8	53805	02
Office,	4½	1551 8	6406	40
Total,	79½	28783 6	60212	02
CHEMICAL PLANT, NO. 1—				
Not including office,	19	6369 2	12418	67
Office,	1½	520 5	2318	00
Total,	20½	6895 7	14737	27
CHEMICAL PLANT, NO. 2—				
Not including office,	11	3892 0	7478	58
Office,	1½	525 4	2315	17
Total,	12½	4417 4	9793	75
ACETATE PLANT, NO. 1—				
Not including office,	8	2610 9	5152	57
Office,	½	126 5	620	19
Total,	8½	2737 4	5772	76
ACETATE PLANT, NO. 2—				
Not including office,	6	1868 0	3576	74
Office,	½	126 6	620	16
Total,	6½	1994 6	4196	90
KILNS—				
Total, (no office charged),	36	10649 7	20235	56
Miscellaneous	12	4136 1	8852	13
Improvement	7¾	2538 5	5091	55
RETORTS—				
Total, (no office charged),	19	6633 9	12536	47
Loading Iron on Cars,				
Grand Total as per Labor Statement,	202	68786 9	141428	41

RECEIVED  
JAN 25 1907

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

STATEMENT OF SHOP LABOR 1906.

## MACHINE SHOP

Month	Pay Roll	Supplies	Total Debit	Total Hours	Less Hours Reprg. Tools	Net Hours Charged	Cost Per Hour
Dec.	654 99	32 52	687 51	3025		3025	.2272
Jan.	933 93	33 32	967 25	3845		3845	.2515
Feb.	605 07	63 59	668 66	2607	4	2603	.2565
March	649 09	23 53	673 22	2797		2797	.2407
April	604 83	45 91	650 74	2608		2608	.2495
May	714 47	39 10	753 57	3097		3097	.2426
June	700 70	15 15	715 85	3204		3204	.2233
July	622 56	14 93	637 49	2691		2691	.2368
August	619 23	44 29	663 52	2595	48	2547	.2606
Sept.	559 61	16 89	576 50	2209		2209	.2609
Oct.	548 92	23 75	572 67	2155	30	2125	.2660
Nov.	608 05	35 09	643 14	2507		2507	.2435
	7822 05	388 07	8210 12	33340	82	33258	.2469

## BLACKSMITH SHOP

Dec.	121 59	7 06	128 65	558		558	.2305
Jan.	117 45	4 90	122 35	520		520	.2352
Feb.	110 12	5 28	115 40	505		505	.2284
March	149 87	6 24	156 11	705		705	.2214
April	209 10	8 54	217 64	1051		1051	.2072
May	114 72	4 65	119 37	537		537	.2243
June	111 55	4 40	115 95	504		504	.2300
July	106 41	4 95	111 36	494		494	.2167
August	121 67	29 02	150 69	551		551	.2734
Sept.	109 93	5 05	114 98	485		485	.2391
Oct.	122 00	5 60	127 60	537	4	533	.2376
Nov.	110 90	5 35	116 25	488		488	.2283
	1505 31	91 04	1596 35	6935	4	6931	.2303

## CARPENTER SHOP

Dec.	603 60		603 60	2950		2950	.2046
Jan.	632 27		632 27	3415		3415	.1851
Feb.	606 88		606 88	3026		3026	.2005
March	632 88		632 88	3121		3121	.2028
April	449 30		449 30	2108		2108	.2130
May	630 79		630 79	3077		3077	.2050
June	752 58		752 58	3601		3601	.2089
July	660 77		660 77	3178		3178	.2079
Aug.	724 74		724 74	3429		3429	.2113
Sept.	694 42		694 42	3200		3200	.2170
Oct.	399 94		399 94	1677		1677	.2385
Nov.	429 40		429 40	1810		1810	.2372
	7217 57		7217 57	34592		34592	.2086

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT  
for the year ending November 30th, 1906

No.	AUTHORIZATION		COST			DISPOSITION				BALANCE					
	Description	Amount	To end of Last Fisc. Year	During Current Year	TOTAL to Date	To end of Last Fisc. Year	COST SHEET OR ACCOUNT Item	Rate	Unit	Based on	During Current Year	TOTAL to Date	Bal. Sht. Item	Amount	
72	Furnace		200119 77		200119 77	176332 35	Pig Iron								
	New B. & P. Engines	5257.50	5437.50	5051 08	5051 08		Dep.	50¢	ton	Tons produced	18046 00	194378 35	56 58	5741 42	
	Sup. Est.	180.00												5051 08	
79	Local Tel. System	253.50		185 57	185 57		"	100%		Authy. W.C.M.	185 57	185 57	58	0 00	
75	Ore Siding	1589.10		645 96	1870 15								58	1870 15	
	<b>TOTAL FURNACE PLANT</b>		206404 04	831 53	207235 57	176332 35					18231 57	194563 92		12671 65	
K	Kilns		25047 79		25047 79	23358 87	Charcoal		1/2	bu.	Bus. produced	1688 92	25047 79	58	0 00
	Ten 60-cord kilns	6845.30	6026 90		6026 90		"	"	"	"	3921 03	3921 03	58	2105 87	
	20 80- " "	23509.22	22901 89		22901 89		"	"	"	"	275 25	275 25	58	22626 64	
	Exp. Kiln & Retort		1108 24		1108 24		"	"	"	"	14.50	14 50	58	1093 74	
	<b>TOTAL CHARCOAL PLANT</b>		55084 92		55084 92	23358 87					5992 70	29258 87		25026 25	
54	Enlarging C.P.No.1		06887 11		06887 11	74024 27	Alcohol No.1		12 1/2%	year		4572 60	78596 87	58	18200 24
73	New St.No. & Apparatus	71999.00	82378 03	3098 23	85472 16		"	"	"	"	12828 60	12828 60	58	72643 56	
	Sup. Est.	13055.00													
77	Chute Apparatus	8705.00	308 29	18243 36	18546 65		"	"	"	"			58	18546 65	
76	Add.Bri.Stge.House	377.08		546 22	546 22		"	50%		Authy. W.C.M.	273 11	273 11	58	273 11	
79	Local Tel System	48.75		35.69	35.69		"	100%		"	35.69	35.69	58	0 00	
72	New B. & P. Engines	28390.50	29382.50	27275 87	27275 87		"	12 1/2%	year		3991 25	3991 20	58	23284 67	
	Sup. Est.	972.00													
	<b>TOTAL CHEMICAL PLANT No.1</b>		206840 20	21923 50	228763 70	74024 27					21701 20	95725 47		133038 23	
30	Chemical Plant No.2)		61141 90		61141 90	23743 20	" No.2	"	10%	"	5834 88	32578 08	58	28563 82	
39	Acetate Plant No.2 )	111989.49	7963 40		7963 40	3396 25	Acetate "	"	"	"	741 00	4137 25	58	3826 15	
39	Retorts )		58492 72		58492 72	15489 43	Charcoal	"	.013	bu.	Bus. produced	9771 50	26260 93	58	33238 75
78	C.P.No.2 Steam Pipe	750.00		757 62	757 62		Alcohol "	"	50%		378 81	378 81	58	378 81	
	" Scrubber			152 58	152 58		"	"	"	"			58	152 58	
80	A.P. " Set. Tanks	487.00		540.03	540.03		Acetate "	"	"	"	270 02	270 02	58	270 01	
72	New B. & P. Engines	9463.50	9787.50	9091 96	9091 96		Alcohol "	"	10%	C.P.#2 prepn.	681 60	681 60	58	8182 96	
	Sup. Est.	324.00					Acetate "	"	"	A.P.#2	227 40	227 40	58		
79	Local Tel System	68.25		49 06	49 06		Alcohol "	"	100%	C.P.#2	35 69	35 69	58	0 00	
							Acetate "	"	"	A.P.#2	14 27	14 27	58		
76	Add.Bri.Stge.House	188.54		273 11	273 11		Alcohol "	"	50%	Authy. W.C.M.	136 55	136 55	58	136 56	
	<b>TOTAL RETORT PLANT</b>		130090 08	1773 30	138470 28	46628 88					18001 72	63720 60		74749 68	
55	Rebuilding A.P.No.1		13224 60		13224 60	4500 00	Acetate No.1	"	15%	year	1983 60	6483 60	58	6741 00	
81	A.P.#1 - New Dry Floor	4818.00		4787 19	4787 19		"	"	"	"			58	4787 19	
72	New B. & P. Engines	9463.50	9787.50	9091 95	9091 95		"	12 1/2%	"		1363 80	1363 80	58	7728 15	
79	Sup. Est.	324.00					"	"	"	"					
79	Local Tel. System	19.50		14 27	14 27		"	100%		Authy. W.C.M.	14 27	14 27	58	0 00	
	<b>TOTAL ACETATE PLANT No.1</b>		22316 55	4801 46	27118 01	4500 00					3361 67	7861 67		19256 34	
1	Five Double Tenement Houses	4531.10	4244 60		4244 60	713 84				House rents	2400 52	3174 16	58	1070 44	
3	One " " "		350 00		350 00	700 00				"	700 00	700 00	58	150 00	
40	Five " " "	4657.45	4689 71		4689 71								58	4689 71	
58	" " " "	6087.40	5010 64		5010 64								58	5010 64	
59	Club House	3298.30	3515 03		3515 03								58	3515 03	
74	Stm.Htr. Ch. Engrs. House	450.00	450 00		450 00								58	450 00	
84	" " Asst. Audrs. "	640.00	640 00		640 00								58	640 00	
	Cllg. Site, Walks & Fences		495 04		495 04								58	495 04	
2	Tenement House Well No.1	547.19	547 19		547 19								58	547 19	
43	" " " No.2	516.85	516 85		516 85								58	516 85	
	Repairs Rented Houses		8295 22	1365 41	9661 33	8295 22				"	1365 41	9661 33	58	0 00	
	<b>TOTAL HOUSES</b>		28614 78	2005 41	30620 19	9709 56					3825 23	18535 49		17084 70	
71	Mathews-Delta Railway (per mile)	1200.00	4696 52		4696 52	874 40	Mathews L&H	S&B	9¢	cord	Cords shipped	3126 02	4696 52	58	0 00
							" Wood	"	16¢	"	" out	218 66			
							Mathews rents				Mathews rents	206 20			
							M-B Log Job	Dep.	50¢	1000	Logs produced	94 26			
							Math. Hem. Sale	"	"	"	"	111 03			
							" Thomp. Job	"	1¢	each	Ties	7 91			
							" Dlosh. "	"	1¢	"	"	27 99			
							" " "	"	50¢	1000	Logs	29 35			
63	Parsons Spur	5912.50	5555 25		5555 25	1230 07	Parsons L&H	S&B	10¢	cord	Cords shipped	3310 11	5555 25	58	202 85
							" Wood	"	10¢	"	" out	183 91			
							Parsons rents				Parsons rents	183 75			
							Accounts Rec.				Trackage on	6 00			
							P. Archambaul				Parsons Spur	18 00			
							NWCoop&Lbr.Co.				"	242 00			
							SimmonsLbr.Co.				"	106 06			
							Par.Hem.Sale	Dep.	50¢	1000	Logs produced	25 54			
							" " "	"	1¢	each	Ties	31 73			
							P - W Log Job	"	50¢	1000	Logs	15 23			
							" " "	"	1¢	each	Ties	91 17			
66	Limestone Spur		506 62		506 62		Limestone Wood	S&B	5¢	cord	Cords	168 88	259 85	58	246 77
							" L&H	"	10¢	"	" shipped				
82	1906 Ext. M-D Ry.	2337.50		2508 89	2508 89								58	2508 89	
	<b>TOTAL SPURS</b>		10758 39	2508 89	13267 28	2104 47					8204 30	10308 77		2958 51	

THE CLEVELAND-CLIFFS IRON COMPANY  
Furnace Department

STATEMENT OF NEW CONSTRUCTION AND IMPROVEMENT  
for the year ending November 30th, 1906

AUTHORIZATION			COST				DISPOSITION						BALANCE		
No.	Description	Amount	To end of Last Fisc. Year	During Current Year	TOTAL to Date	To end of Last Fisc. Year	COST SHEET OR ACCOUNT			Based on	During Current Year	TOTAL to Date	Bal. Sht. Item	Amount	
							Item	Rate	Unit						
69	Mathews Delta Camp	1237 50	929 69		929 69		Mathews Wood	S&B	16¢	Cord	Cords cut	312 34	312 34	58	617 35
68	Parsons Camp	880 00	1161 23		1161 23	501 55							501 55	58	659 68
66	Limestone Camp		588 54		588 54	223 85							223 85	58	364 69
66	Limestone Barn		771 07		771 07									58	771 07
88	Alger Camp	2310 00		2267 54	2267 54		Alger rents				Alger rents	3 00	3 00	58	2264 54
	TOTAL BARNS & CAMPS		3450 53	2267 54	5718 07	725 40						315 34	1040 74		4677 33
	Portable Ry. Equip.		22459 93		22459 93	9493 08							9493 08	60	12006 85
	Total Furnace Plant		206404 04	831 53	207235 57	176332 35						18231 57	194503 92		12671 65
"	Charcoal Plant		55084 82		55084 82	23258 37						5899 70	20258 57		25826 25
"	Chem. Plant No. 1		206840 20	21923 50	228763 70	74024 27						21701 20	95725 47		133038 23
"	Retort Plant		186696 98	1773 30	188470 28	45628 88						18091 72	68720 60		74749 68
"	Acetate Plant No. 1		22316 55	4801 46	27118 01	4500 00						3361 67	7861 67		19256 34
"	Houses		28614 78	2005 41	30620 19	9709 56						3825 92	13535 49		17084 70
"	Spurs		10758 39	2508 89	13267 28	2104 47						8204 30	10308 77		2958 51
"	Barns & Camps		3450 53	2267 54	5718 07	725 40						315 34	1040 74		4677 33
	TOTAL NEW CON. & IMP.		670166 29	36111 63	706277 92	336383 80						79631 43	416015 23		290262 69

Authority No. 66 for \$1996.77 covers Limestone Barn, Limestone Spur and Limestone Camp.

Repairs Rented houses, credit, is made up of house rents, \$1280.13 and an adjustment of insurance accounts to agree with unearned premiums, account error too much credit in former years, of \$85.28.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Statement of New Construction and Improvement which has been charged off.

November 30th, 1906.

Auth. No.	Description	Amount Authorized	Total cost to date
Chemical Plant No.2 Group			
48	Covering tanks and stills		475.00
49	Feed water heater	679.21	638.03
Acetate Plant No.1 Group			
E	Ovens		230.83
F	Tanks		86.62
G	Piping tanks		143.31
H	Storage house		6.48
I	Addition to acetate building		2.32
23	Acetate storage house		216.20
24	Acetate fire wall		144.90
41	Acetate Plant No.1 storehouse		1457.59
Cons.	Acetate Plant No.1		1255.04
Retort Group			
44	Auxiliary coolers	2175.00	2354.22
45	Change in fireplace settings at retorts		3534.05
Railroad Group			
Cons.	Parsons Railway		16590.94
L	Section 27 railroad		88.88
10	1899 Extension Parsons Railway	4841.21	4128.52
	Mathews Portable Railway Construction		3832.17
	Mathews Tract spur		290.80
56	Mathews Railway, main spur	4114.93	3939.96
71	Mathews-Delta Railway (per mile)	1200.00	4696.52
Camps and Barns Group			
28	Experimental wood wagon	500.00	120.07
32	Parsons well	311.15	301.94
52	Wood Camps teaming outfit	8368.35	8368.35
70	Mathews round house	770.00	667.07
57	Purchase of horses and equipment	23353.00	19448.21
	Parsons boarding house		299.55
	Parsons 1901 barn		141.98
	Parsons 1902 barn		650.37
	Mathews 1900 barn		314.98
	Mathews 1902 barn		1622.82
	Mathews 1899-1900 camp		1224.61
	Mathews camp No.2		865.09
	Munising East barn		809.95
	Munising West barn		929.18
	Munising East camp		1787.51
	Munising West camp		2086.26
Kilns Group			
	Kilns (Original forty kilns)		25047.79



# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Statement of New Construction and Improvement which has been charged off.

November 30th, 1906.

<u>Auth. No.</u>	<u>Description</u>	<u>Amount Authorized</u>	<u>Total cost to date</u>
<b>Furnace Group</b>			
4	Switch engine	2995.30	3043.75
11	Extension to office	517.00	517.00
13	Addition to locomotive house		258.59
14	Cinder derrick		183.46
15	Furnace Condenser pipe line		377.39
16	Ore crusher	4457.35	4058.55
17	Boat house		96.45
18	Railroad track scales	1142.73	1142.73
19	Stirling boiler	3831.62	3831.62
20	Jacket and water trough	1519.35	1519.35
25	Coal shed		29.17
26	Air-brakes and couplers (charcoal cars)	4221.80	4807.20
27	Water purifier	750.00	765.00
29	Machine shop building	2200.00	2364.29
30	New laboratory building	1486.02	1606.71
31	Extension ore trestles	1295.28	1275.28
34	Air pump and condenser		520.02
36	Locomotive house brick veneering		252.10
37	Locomotive water tank		80.66
38	Founder's cottage well		331.78
42	Supply house		1387.55
50	New fence around tenement houses	1103.52	1432.81
51	Painting company houses		806.79
65	New barn	260.74	260.74
67	New cast house walls	3222.53	3306.56
	Road to furnace		800.00
	Rented houses		12789.84
79	Local telephone system	390.00	285.49
<b>Chemical Plant No.1 Group</b>			
	Chemical Plant No.1		71279.63
A	Chemical boiler	1079.94	1147.98
B	Condensers	1362.35	1104.67
C	Steel stills	1102.75	1282.62
D	Storage tanks	50.00	43.30
J	Extension railroad track to Chem. Plant	441.30	585.65
3	Stem pipe to chemical boilers	522.17	432.12
5	Smoke main	203.50	197.04
6	Chemical fan	412.50	398.71
7	Condenser (squeeze)	770.24	769.48
8	Compound engine	2557.50	2453.30
10 <sup>1</sup> / <sub>2</sub>	One new column		1059.92
12	Addition to Chemical and Acetate Plants	10024.60	9408.49
21	Artesian well		2085.04
22	Tar tanks		153.59
33	Column No.5 and still	1673.64	1673.64
35	Bath house	272.82	272.82
46	Covering tanks and stills		760.00
47	Refining still		1523.27

THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Stock Report for Month Ending

November 30th.,

1906

H. Niedecker Co., Mfg. Stationers, Milwaukee, Wis. 3107

PRODUCED OR RECEIVED.

SHIPPED OR USED.

	Total for Month	Previous Months	Over and Short for Season	Total from Dec. 1st, 1905	On Hand Dec. 1st, 1905	TOTAL	Total for Month	Previous Months	Over and Short for Season	Total from Dec. 1st, 1905	Balance on Hand
<b>ORE:</b>											
Lake	6929- 440	47173-1330		54102-1770	7180	61282-1770	3243-1139	53854- 631		57097-1770	4185-
Salisbury					1304	1304		1304-		1304-	
Cliffs Shaft		34- 340		34- 340	2773-	2807- 340	61-1271	2532-1309		2594- 340	213
Lake Bessemer		168-1980		168-1980		168-1980		168-1980		168-1980	
Lake Silica	1111- 660	3557-1720		4669- 140		4669- 140	508-1709	2963- 671		3472- 140	1197-
Alford		1133-2180		1133-2180		1133-2180		1133-2180		1133-2180	
Abbotsford		572- 570		572- 570		572- 570		572- 570		572- 570	
Lake Bess. Silica		1095- 450		1095- 450	1272	2367- 450		2367- 450		2367- 450	
Buffalo	1337- 420			1337- 420		1337- 420	1337- 420			1337- 420	
Total	9377-1520	53735-1850		63113-1130	12529-	75642-1130	5151- 59	64896-1071		70047-1130	5595
<b>WOOD:</b>											
WOOD CAMPS—Parsons		1831½		1831½	40725½	42556½	2266	30844½		33110½	9446½ ✓
Matthews	1313½	19771½		21085	48476½	69561½	2083½	32510½		35499½	34061½
Limestone	546½	4304½		4850½	10180½	15030½		9263½		9263½	5767½
Along Whitefish Branch											
Received from Jobbers		711½		711½		711½		711½		711½	
Alger	602			602		602					602-
Total Wood Camps	2461½	26619½		29081½	99381½	128462½	5249½	73336		78585½	49877½
FURNACE YARD	52½	1678		1730½	2666½	4397½	20	4344½		4364½	32½
Total Camps and Yard	2514½	28297½		30811½	102048½	132860	5269½	77680½		82950-	49910
KILNS	3761½	50601		54362½	4891½	59254½	3270	52329½		55509½	3654½
RETORTS	1382	15298		16680		16680	1382	15298		16680	
Total	5143½	65899		71042½	4891½	75034½	4652	67627½		72279½	3654½
	7857½	94196½		101854½	106939½	208794½	9921½	145308½		155229½	53504½
Charcoal	Busbels	257667	3351390	3608957	4080	3613037	257647	3351070		3608717	4320
Linestone	Tons	723-2180	2100-2190	2824-2130	484-1205	3309-1095	273-1150	2484-2149		2758-1050	551- 45
Alcohol	Plant No. 1, Gallons	13768	173207	186795½	13361	197156½	17250½	165958	172½	183029	14127½
		19168½	94433½	10456½	9917	114479½	7856	94653½	29½	102479	12009½
Gray Sulfate of Lime	1, Pounds	234160	1753343	1981308	61214	2042623	295336	1645632	6966	1834673	207749
		198305	1501607	1757537	43468	1805945	302918	1618434	2467	1718277	67668



THE CLEVELAND-CLIFFS IRON CO.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## LEGAL EXPENSES, 1906.

W. P. Belden, Special Attorney & Solicitor.

Salary Solicitor, Dec. 1st/05 to Nov. 30th/06	\$281.18
Expenses " " " " " "	67.70
Salary Special Attorney " " " "	67.55
Expenses " " " " " "	4.20
Total . . . . .	420.63



THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## DONATIONS MADE DURING THE FISCAL YEAR, 1906.

R. H. Proctor, Clerk in Gladstone office,

Railroad ticket Gladstone to Grand Rapids account

afflicted with consumption . . . . . \$12.95

BOND

CLIFFS

BOND



THE CLEVELAND-CLIFFS IRON CO.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## Comparative Statement of General Office Expense for the years 1905 & 1906

	<u>1906</u>	<u>1905</u>
Manager	3600.00	3933.30
Assistant Auditor	810.00	885.00
Chief Clerk	526.50	531.00
Assistant Clerks	1610.00	1435.00
Extra Clerks	275.00	298.50
Stenographer	703.00	662.00
Extra Stenographer	392.00	
Chief Engineer	1350.00	1475.00
Launch	12.50	12.50
Manager's man	227.50	272.50
Donations	12.95	
Petty office expense	20.81	34.67
Stationery & Printing	433.15	290.34
Telephones & Telegrams	551.60	425.43
Stable	691.52	595.11
Exchange	141.45	43.45
Freight & Express	31.27	22.35
Traveling	930.17	738.09
Postage	120.79	198.62
Livery	165.75	72.85
Watchman	97.72	1115.34
Inventory	39.77	27.21
Legal	420.63	447.24
Janitor	132.00	126.00
Papers & Periodicals	25.50	8.00
Cost of Running Club	1377.04	526.91
Garden Prizes	183.00	
Engineering	153.89	
Entertaining	14.00	24.84
Office Furniture & Fixtures	156.20	
Political	43.75	20.20
St. Louis Exposition		107.20
	<hr/>	<hr/>
	15249.46	14328.65

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

and

Pioneer Iron Company

FURNACE DEPARTMENT

STATEMENT, OF SALARIES AND PERQUISITES - YEAR 1906

	Total	Distribution	
		C.C.I.Co	P.I.Co.
Manager			
Salary	8000.00	3600.00	4400.00
" Coachman	600.00	270.00	330.00
Feed one horse	192.00	86.40	105.60
Assistant Auditor			
Salary	1800.00	810.00	990.00
Chief Clerk			
Salary	1170.00	526.50	643.50
Chief Engineer			
Salary	3000.00	1350.00	1650.00
Fuel Superintendent			
Salary	2666.70	1333.35	1333.35
Chemist			
Salary	2090.00	1000.00	1090.00
Consulting Chemist			
Salary	900.00	427.51	472.49
Cashier, Carp Furnace			
Salary	1170.00		1170.00
Chemist, Carp Furnace			
Salary	1475.00		1475.00
Founder, Carp Furnace			
Salary	1500.00		1500.00
Founder, No.2 Furnace			
Salary	2040.00		2040.00
Founder, Gladstone Furnace			
Salary	1620.00	1620.00	
House rent and electric light	0.00	0.00	
Yard Foreman, Gladstone			
Salary	1020.00	1020.00	
Feed one horse	120.00	120.00	
Barn Boss, Gladstone			
Salary	600.00	600.00	
House rent	0.00	0.00	
Assistant Auditor )			
Chief Engineer )			
Chemist )			
Fuel Superintendent )			
Stenographer )			
Clerks )			
Draftsman )			
	240.00	240.00	
Cashier, Carp )			
Founder, Carp )			
Chemist, Carp )			
	240.00		240.00

Use of team to and from Gladstone furnace

Use of horse to and from Carp Furnace



# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

STATEMENT OF STEAM COAL USED FOR THE YEAR ENDING

November 30th, 1906.

CHARGED TO	<i>Cost Sheet</i>	YOUGHIOGHENY		ANTHRACITE	
		Pounds	Amount	Pounds	Amount
Chemical Plant No.1	2654.41	1484796	2654.41 ✓		
Chemical Plant No.2	12057.21	6826123	11974.53		
Acetate Plant No.1	10209.72	5263605	9001.34		
Acetate Plant No.2	5888.54	3341986	5856.42		
Retorts		3154245	5066.29	5722282	9177.31
Locomotives		659150	1116.50		
<b>Total</b>		<b>20729905</b>	<b>35669.49</b>	<b>5722282</b>	<b>9177.31</b>

*The above represents the coal charged to fuel account on the cost sheets. The supplier charged to fuel acct. on the cost sheets also includes wood and handling of same when used for fuel. See Maroon letter 6-26-1906*

*35669.49  
9177.31  
-----  
4484080*

*20729905  
5722282  
-----  
26452187  
13226,*

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1

DIVISIONS COMMON EXPENSE

November 30, 1906

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

PER CENT OF DIVISIONS COMMON EXPENSE, NOVEMBER 30, 1906.

	Furnace	Chemical Plant No.1.	Chemical Plant No.2.	Acetate Plant No.1.	Acetate Plant No.2.
Lab'y. Supplies	30	30	30	5	5
General Office	65	12½	12½	5	5
Electric Light	65	12½	12½	5	5

BOND

CLEVELAND

BOND

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Statement of charges to rented houses and rents received during 1905.

House Number	Repairs	Ins	Taxes	Total Chgs.	Rent Recd.	Net Rent.
1	7 14	4 13		11 27	72 00	60 73
2	7 14	4 13		11 27	72 00	60 73
3	7 14	4 13		11 27	72 00	60 73
4	7 58	4 13		11 71	72 00	60 29
5	7 14	4 13		11 27	72 00	60 73
6	7 52	4 13		11 65	66 00	54 35
7	7 67	4 13		11 80	72 00	60 20
8	7 14	4 13		11 27	72 00	60 73
9	7 48	4 13		11 61	72 00	60 39
10	7 14	4 13		11 27	72 00	60 73
11	7 14	4 13		11 27	72 00	60 73
12	7 14	4 13		11 27	72 00	60 73
13	7 37	4 13		11 50	72 00	60 50
14	7 53	4 13		11 66	72 00	60 34
15	7 14	4 13		11 27	72 00	60 73
16	7 14	4 13		11 27	72 00	60 73
17	24 44	4 13		28 57	70 00	41 43
18	24 45	4 13		28 58	72 00	43 42
19	7 14	4 13		11 27	72 00	60 73
20	7 14	4 13		11 27	72 00	60 73
21	7 14	4 13		11 27	72 00	60 73
22	7 14	4 13		11 27	72 00	60 73
23	7 14	4 13		11 27	72 00	60 73
24	7 14	4 13		11 27	72 00	60 73
25	7 37	4 13		11 50	72 00	60 50
26	7 14	4 13		11 27	72 00	60 73
27	7 14	4 13		11 27	72 00	60 73
28	7 68	4 13		11 76	72 00	60 24
29	7 14	4 13		11 27	71 00	59 73
30	8 08	4 13		12 21	69 40	57 19
31	7 37	4 14		11 51	72 00	60 49
32	7 14	4 14		11 28	72 00	60 72
33	7 14	4 14		11 28	72 00	60 72
34	7 34	4 14		11 48	72 00	60 52
35	7 14	4 14		11 28	72 00	60 72
36	7 14	4 14		11 28	72 00	60 72
37	7 14	4 14		11 28	72 00	60 72
38	7 14	4 14		11 28	72 00	60 72
39	7 14	4 14		11 28	72 00	60 72
40	7 14	4 14		11 28	72 00	60 72
41	7 14	4 14		11 28	72 00	60 72
42	7 14	4 14		11 28	59 05	47 77
43	7 79	4 14		11 93	60 20	48 27
44	7 14	4 14		11 28	59 00	47 72
45	7 34	4 14		11 48	72 00	60 52
46	7 14	4 14		11 28	72 00	60 72
47	8 19	4 14		12 33	60 00	47 67
48	7 34	4 14		11 48	60 00	48 52
49	7 14	4 14		11 28	69 00	57 72
50	7 29	4 14		11 43	49 00	37 57
Ass't. Auditor	143 13	10 00	34 74	187 87	120 00	67 87
Chief Engineer	439 08	10 00	38 22	487 30	120 00	367 30
Total	980 47	226 70	72 96	1380 13	3740 65	2460 52

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Statement of mileage on Chicago & Northwestern Railway "C.C.I.Co." cars  
in charcoal service. Fiscal year ending November 30th, 1906.

<u>Car No.</u>					<u>Miles</u>
101	-	-	-	-	47.1
102	-	-	-	-	81.6
103	-	-	-	-	43.0
104	-	-	-	-	41.1
105	-	-	-	-	105.1
107	-	-	-	-	162.1
108	-	-	-	-	36.5
109	-	-	-	-	58.0
110	-	-	-	-	155.6
111	-	-	-	-	51.5
112	-	-	-	-	117.8
113	-	-	-	-	15.0
116	-	-	-	-	100.3
117	-	-	-	-	51.5
118	-	-	-	-	106.9
119	-	-	-	-	47.1
120	-	-	-	-	51.5
124	-	-	-	-	30.0
125	-	-	-	-	30.0
127	-	-	-	-	102.8
128	-	-	-	-	51.5
129	-	-	-	-	70.7
131	-	-	-	-	100.7
132	-	-	-	-	36.5
134	-	-	-	-	66.5
137	-	-	-	-	61.8
<u>138</u>	-	-	-	-	<u>17.1</u>
27	-	Total	-	-	1839.3

THE CLEVELAND-CLIFFS IRON CO.

STANDARD INDUSTRIAL PAPER CO.

SALES GLADSTONE CITY PROPERTY

1906

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SALES GLADSTONE CITY PROPERTY DURING YEAR 1906

NONE

43

THE CLEVELAND-CLIFFS IRON CO.

NOVEMBER 30TH 1906

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

VACANT PROPERTY

IN THE CITY OF GLADSTONE NOVEMBER 30TH., 1906.

LOT	BLOCK	ADDITION	WARD
10	4	Central Avenue	2nd.
8	7	" "	"
9	7	" "	"
10	7	" "	"
11	7	" "	"
6	5	" "	3rd.
10	5	" "	"
11	5	" "	"
3	6	" "	"
4	6	" "	"
7	6	" "	"
10	6	" "	"
11	75	First	"
12	75	"	"
24	76	"	"
26	76	"	"
16	79	"	"
24	79	"	"
4	80	"	"
5	80	"	"
13	80	"	"
14	80	"	"
4	88	"	4th
5	88	"	"
3	97	"	"
4	97	"	"
5	97	"	"
17	2	South Shore	3rd
18	2	" "	"
19	2	" "	"
20	2	" "	"
21	2	" "	"
22	2	" "	"
30	2	" "	"
31	2	" "	"
32	2	" "	"
6	2	" "	"
7	2	" "	"

Government Lot No. 3 Section 22 - 40 - 22

44

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Stock Accounts - - - November 30th, 1906

	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b>Supplies</b>			
Furnace - - - - -			18295.20
Chemical - - - - -			3218.07
Laboratory - - - - -			70.00
Stock of coal - - - - -			16027.32
Parsons Barn - - - - -			347.70
Mathews Barn - - - - -			824.61
Limestone Barn - - - - -			192.14
Club House - - - - -			<u>46.51</u>
Total - - - - -			39021.55
<b>Equipment</b>			
Furnace - - - - -			947.23
Camp Barn - - - - -			9409.20
Portable Railway - - - - -			<u>12966.85</u>
Total - - - - -			23323.28
<b>O r e s</b>			
	<u>Tons</u>	<u>Lbs.</u>	
Lake - - - - -	4185	3.128	13090.68
Lake Silica - - - - -	1197	1.583	1894.32
Cliffs Shaft - - - - -	<u>213</u>	3.946	<u>840.50</u>
Total - - - - -	5595		15825.50
<b>W o o d</b>			
	<u>Cords</u>	<u>8ths</u>	
Furnace - - - - -	32	4	88.52
In kilns - - - - -	3654	4	9673.46
Parsons - - - - -	9446	5	10853.28
Mathews - - - - -	34061	4	45490.31
Limestone - - - - -	5767	3	7739.38
Alger - - - - -	<u>602</u>	-	<u>862.79</u>
Total - - - - -	53564	4	74707.74
Charcoal - - - - - (Bushels)	4320	.0885	382.32
Limestone - - - - - ( tons )	551	1.091	<u>601.10</u>
Grand total stock accounts			153861.49

-:0:-

### Balance Sheet

Item No.	44	-	-	39021.55
"	"	46	- -	10356.43
"	"	48	- -	15825.50
"	"	50	- -	74707.74
"	"	52	- -	601.10
"	"	54	- -	382.32
"	"	60	- -	<u>12966.85</u>
Total	-	-	-	153861.49

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

STATEMENT SHOWING COST OF STABLE EXPENSE FOR THE YEAR 1906.

COMMODITIES ETC.	Total Cost	Cost per horse Per day.
Hay	312.00	.082
Oats	948.00	.247
Feed	19.45	.005
Straw	23.75	.006
Medicine	57.33	.015
Veterinary	8.00	.002
Shoeing	213.03	.055
Repairs Wagons, Carts & Sleighs	96.10	.025
Repairs to Harness	272.35	.072
Curry Combs, Brushes, Grease & Oil	27.71	.007
Total . . . . .	1977.72	.516

2 Cinder Horses	730	days
1 ✓ Sand & Clay Horse	365	"
1 ✓ Breeze horse	365	"
1 ✓ Screenings Horse	365	"
1 ✓ Coal Transfer Horse	365	"
2 ✓ Work Horses	730	"
2 Driving Horses	730	"
2 ✓ Chemical Fuel Horses	<u>180</u>	"
Total . . . . .	<u>3830</u>	"

$$\begin{array}{r}
 12 \overline{) 1977.72} \\
 \underline{164.81} \\
 329.62
 \end{array}$$



# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## LAND SALES AND OPTIONS FOR THE YEAR 1906.

PARSONS TRACT SALES									
Purchaser	Description	Sec.	T.	R.	Date Optn	Acres	Price	Amount	
R. J. Bellows	S $\frac{1}{2}$ of S E $\frac{1}{4}$	18	41	17	1905	80	3.50	280.00	
PARSONS TRACT OPTIONS									
					Date Optn Expires				
John McCormack	N $\frac{1}{2}$ of N W $\frac{1}{4}$	13	41	18	6/1/07	80	5.00	10.00	
Jack Hebert	S $\frac{1}{2}$ of S E $\frac{1}{4}$	10	41	17	11/1/06	80	5.00	10.00	
Ordell Smith	S W $\frac{1}{4}$	35	42	17	6/1/07	160	5.00	20.00	
Total						320		40.00	
MATTHEWS TRACT SALES									
					Date Optn.				
Jonas Anderson	S E $\frac{1}{4}$ of S E $\frac{1}{4}$	31	44	21	1905	40	5.00	200.00	
MATTHEWS TRACT OPTIONS									
					TO				
Yalmer Yokinen	N W $\frac{1}{4}$ of N E $\frac{1}{4}$	6	43	21	6/1/06	40	5.00	25.00	
Grand total						480		545.00	

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SIDE LEDGER TRIAL BALANCE - - Continued - - November 30th, 1906.

ACETATE GENERAL EXPENSE NO. 1 1027 54

Insurance	4 49
Analysis	137 73
Salaries & Other Expenses	762 54
Consulting Chemist	122 78

ACETATE MAINTENANCE NO. 1 504 56

Building	75 67
Tanks	19 73
Conveyor	28 13
Dry Floor	14 66
Piping	24 03
Boilers	74 38
Cleaning Up	3 20
Machinery	32 37
Pans	232 39

ACETATE OPERATING NO. 1 20495 66

Raking	829 93
Skimming	1803 26
Machinery	9 66
Firemen	715 21
Fuel	11194 21
Electric Light	30 50
Boilers	131 53
Lime	1039 20
Depreciation of Improvement	3361 67
Sacks	1141 46
Loading	131 45
Switching	13 28
Storing	94 30

THE CLEVELAND-CLIFFS IRON CO.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SIDE LEDGER TRIAL BALANCE - Continued November 30th, 1906.

CHEMICAL GENERAL EXPENSE NO. 2 5867 73

Insurance	2250 00
Taxes	783 13
Analysis	776 94
Salaries & Other Expenses	1934 88
Consulting Chemist	122 78

CHEMICAL MAINTENANCE NO. 2 1773.40

Tanks & Stills	474 51
Condensers	11 59
Machinery	519 37
Boilers	541 90
Buildings	20 63
Water Supply	4 79
Ditch	173 81
Cleaning Up	26 80

CHEMICAL OPERATING NO. 2 33570 39

Superintendent	750 00
Stillmen	3860 49
Firemen	1631 01
Machinery	83 18
Boilers	141 17
Fuel	12779 44
Electric Light	77 00
Lime	3438 72
Chemicals	64 77
Hose	238 08
Depreciation of Inventory	33 09
Depreciation of Improvement	7067 53
Barrels	3363 45
Loading	33 07
Switching	9 39

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SIDE LEDGER TRIAL BALANCE - Continued - November 30th, 1906.

CHEMICAL GENERAL EXPENSE NO. 1 5333 75

Insurance	1575 00
Taxes	783 13
Analysis	776 94
Salaries & Other Expenses	2075 90
Consulting Chemist	122 78

CHEMICAL MAINTENANCE NO. 1 3988 03

Tanks and Stills	1393 71
Condensers	86 65
Machinery	830 32
Boilers	93 13
Fans and Pulleys	246 92
Smoke Mains	134 48
Buildings	292 24
Water Supply	2 65
Ditch	149 10
Cleaning Up	68 55
Chute Apparatus	253 44
Piping	436 84

CHEMICAL OPERATING NO. 1 45559 78

Superintendent	750 00
Stillmen	5965 36
Engineers	2960 56
Fireman	483 16
Machinery	131 82
Boilers	505 37
Fuel	2654 41
Electric Light	138 35
Lime	2986 75
Chemicals	86 84
Condensermen	529 79
Cleaning Smoke Main	90 02
Depreciation of Inventory	33 10
Depreciation of Improvement	21701 20
Barrels	6396 60
Loading	130 76
Switching	15 69

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

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

SIDE LEDGER TRIAL BALANCE - - - NOVEMBER 30TH, 1906 .

FURNACE GENERAL EXPENSE 14115 49

Insurance	132 00
Taxes	3132 51
Analysis	924 88
Salaries and other Expenses	9926 10

FURNACE MAINTENANCE 22947 58

Tracks and Yard	1284 29
Trestles and Dock	12283 67
Buildings	798 75
Machinery	2327 28
Tuyeres	566 68
Relinings and Renewals	3609 20
Water Supply	121 41
Pig Iron Trucks, Coal & Ore Buggies	344 36
Stack	107 32
Stoves	134 55
Cleaning Up	820 67
Sewer	549 40

FURNACE OPERATING 558587 96

Machinery	4729 99
Electric Light	389 41
Bottom Fillers	11050 20
Top Fillers	2725 65
Handling Iron	5149 35
Handling Cinder	2940 05
Weighing and Grading Iron	685 85
Founders, Keepers & Helpers	9958 85
Coal Forkers	8652 76
Casting Tools	395 90
Sand and Clay	1624 65
Filtering	99 79
Wood	308 57
Cleaning Stoves	644 69
Ore	196744 31
Charcoal	286418 54
Limestone	2925 85
Depreciation of Equipment	423 23
Depreciation of Construction	18046 00
Depreciation of Improvement	185 57
Depreciation of Inventory	103 37
Loading Cars	1058 23
Switching	196 93
Loading Vessels	3060 22

THE CLEVELAND-CLIFFS IRON CO.

PIIONEER FURNACE NO. 1.

November 30th 1906.  
Side Ledger Trial Balance

# THE CLEVELAND-CLIFFS IRON CO.

PIIONEER FURNACE NO. 1.

## SIDE LEDGER TRIAL BALANCE - - Continued - - November 30th. 1906.

ACETATE GENERAL EXPENSE NO. 2 1022 90

Analysis	137 63
Salaries & Other Expenses	762 53
Consulting Chemist	122 74

ACETATE MAINTENANCE NO. 2 908 08

Building	81 68
Tanks	32 21
Cleaning Up	5 82
Dry Floor	51 50
Piping	33 90
Boilers	172 80
Pans	530 17

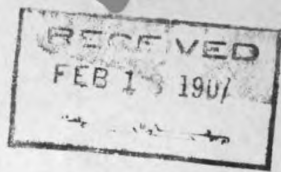
ACETATE OPERATING NO. 2 11349 93

Raking	775 70
Skimming	1131 04
Firemen	696 36
Fuel	6224 54
Electric Light	15 97
Boilers	42 17
Depreciation of Improvement	1252 69
Sacks	1051 23
Loading	115 48
Switching	14 35
Storing	30 40

THE CLEVELAND-CLIFFS IRON CO.

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.



MATHEWS HEMLOCK SALE

November 30th, 1906.

Contract with William Thompson, Trenary, Michigan, for operating hemlock bark, logs and ties on sections 5 and 6-43-21 and 31-44-21, as follows:

Bark	Loaded on cars	4.00 per cord
No.1 ties	Banked Cliffs Spurs	.15 each
No.2 "	" " "	.13 "
Hemlock logs	" " "	3.50 per M.

We agreed to make advances as follows:

No.1 ties	Bunched on roads	.08 each
No.2 "	" " "	.06 "
Hemlock logs	Foreman's scale	1.75 per M.

CONDITION OF WORK:

Settlements

Logs:

Hemlock	166009 feet @ 3.50		581.03
Birch	42728 " @ 5.00		213.64
Basswood	1349 " @ 5.00		6.75
Maple	1246 " @ 5.00		6.23
Elm	2900 " @ 5.00		14.50
Ash	1307 " @ 5.00		6.54
Tamarack	2047 " @ 3.50		7.16
Spruce	571 " @ 3.50		2.00
Cedar	1873 " @ 3.50		6.56
Pine	2032 " @ 3.50		7.11
			851.52

<u>Bark</u>	106.555 cds. @ 4.00	426.22
-------------	---------------------	--------

<u>Ties</u>		
No.1	95 @ .15	14.25

Miscellaneous Charges

	Depreciation of Spurs	
	222062 ft. logs @ 50¢	111.03
		111.03
		1403.02

RECEIVED  
FEB 13 1907

THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

MATHEWS HEMLOCK SALE,- Continued.

November 30th, 1906.

SALES

Logs:

Hemlock	166009 feet @ 7.00	1162.06	
Birch	42728 " @10.00	427.28	
Basswood	1349 " @11.25	15.18	
Maple	1246 " 7.00	8.72	
Elm	2900 " 11.25	32.63	
Ash	1307 " 10.50	13.72	
Tamarack	2047 " 7.50	15.35	
Spruce	571 " 8.00	4.57	
Cedar	1873 " 7.00	13.11	
Pine	2032 " 18.00	36.58	1729.20

Bark 106.565 cds. @ 8.50 less frt. 606.89

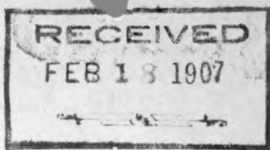
2336.09

Settlements	Logs	851.52	
"	Bark	426.22	
"	Ties	14.25	
Miscellaneous Charges		111.03	
Sales			2336.09
Balance credited Treasurer Nov. 30th,		<u>933.07</u>	
		2336.09	2336.09



# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.



PARSONS HEMLOCK SALE

November 30th, 1906.

Contract with F. J. Cornell, Cooks, Mich., for operating hemlock logs and ties on Section 28-42-17 as follows:

Hemlock logs	Banked on Russell's Spur	4.00 per M.
" ties	" " " "	.15 each

CONDITION OF WORK:

Settlements

Hemlock	203499 feet @ 4.00 per M.	814.00
Basswood	5255 " @ 5.00 " "	26.28
Elm	2286 " @ 5.00 " "	11.43
Birch	1074 " @ 5.00 " "	5.37
Ties		460.80
Bark	45.79 cords @ 4.25	194.60
		1512.48

Miscellaneous

Scaling		5.20
Loading ties		7.81
Depreciation of Spurs		131.60
	212114 feet logs @ 50¢ per M.	106.06
	2554 ties @ 1¢ each	25.54
		144.61

SOLD AND USED:

Hemlock	92745 feet @ \$6.00 per M.	556.47
"	110754 " @ 7.00 " "	775.28
Basswood	5255 " @ 11.25 " "	59.12
Elm	2286 " @ 11.25 " "	25.72
Birch	1074 " @ 10.00 " "	10.74
Bark	45.79 cords @ 8.50 less freight	262.05
Ties	1511 @ .24	362.64
"	598 @ .24 less 1% disc.	142.09
"	445 @ .11	48.95
		2243.06

Settlements	1512.48	
Miscellaneous charges	144.61	
Used and Sold		2243.06
Balance credited Treasurer Nov. 30th.	585.97	
	2243.06	2243.06

# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

## COST OF OPERATING EMPLOYEE'S CLUB, YEAR 1906.

General Expense		
Insurance	47.52	
Prizes	8.50	
State License	391.69	
U. S. License	24.96	
Total	472.67	
Maintenance		
Sewer	15.03	
Building	96.92	
Furniture	26.41	
Equipment	16.53	
Total	154.89	
Operating		
Caretaker	600.00	
Wood	15.51	
Ice	53.97	
Total	669.48	
Stock used		
Beer	497.75	
Pop	14.00	
Liquors	308.15	
Cigars	140.51	
Cigaretts	23.62	
Total	984.03	
Total Expense	2281.07	
Total Receipts	907.45	
Net Loss	1373.62	

### Stock account year, 1906

<u>Stock</u>	<u>Inventory</u> Nov. 30th, 1905	<u>Purchased</u> During 1906	<u>Total</u>	<u>Sales</u> During 1906	<u>Inventory</u> Nov. 30, /06.
Beer	7.00	503.00	510.00	499.75	10.25
Pop	2.00	12.80	14.80	12.00	2.80
Liquors	49.71	269.64	319.35	308.15	11.20
Cigars	18.25	144.38	162.63	143.26	19.37
Cigaretts	4.51	22.00	26.51	23.62	2.89
Total	81.47	951.82	1033.29	986.78	46.51

**Note:-**

Cause for difference between total sales in stock account and charge account, Cost of Running Club, on account of one box of cigars donated to Bottom Fillers and charged to Furnace Operating, \$2.75

# THE CLEVELAND CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

Pig Iron Stock Report for the Week Ending November 30th., 1906

	Pig Iron Grades	PRODUCTION									SHIPMENTS						Balance in Stock
		Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Produced Since Dec. 1st	Transferred to and From	On Hand Dec. 1st	Total Produced and in Stock Since Dec. 1st	Current Week	Previous for Month	Total for Month	Previous Months	Over and Short for Season	Total Since Dec. 1st	
	A Scotch		318	318	970		1288	13		1301		156	156	983	1139	162	
	B Scotch		274	274	900		1174	6	10	1178		268	268	904	1172	6	
	C Scotch	7	205	212	1098		1310	14	16	1340	25	124	149	1124	1273	67	
	No. 1 Special	48	311	359	2500	5	2854	21	58	2891	70	250	320	2517	2832	59	
	No. 1 Foundry	144	485	629	3460	31	4120	25	34	4129	338	175	513	3319	3863	266	
	No. 2 Low	159	111	270	5753	13	6010	24	52	6038	357	60	417	5473	5877	161	
	No. 2 High	202	76	278	4855	27	5160	49	230	5439	393	34	427	4763	5217	222	
	No. 3 Low	141	66	207	6149	57	6299	14	238	6523	719	65	784	5629	6356	167	
	No. 3 High	47	11	58	1421	2	1481	14		1495	40	155	195	1283	1480	15	
	No. 3 Malleable				106		106			106				75	75	31	
	No. 4 Low	9		9	837	17	829		139	968				927	910	58	
	No. 4 High	6		6	1303	8	1317		132	1449	36		36	1405	1449		
	No. 5	14		14	1513	14	1513		131	1644	125	40	165	1479	1630	14	
	No. 6	4		4	1430	1	1435		70	1505				1442	1443	62	
	Spotted Castings																
	Bessemer Special				1159		1159			1159				1159	1159		
	Bessemer																
	Bessemer																
	<b>TOTAL</b>	<b>781</b>	<b>1857</b>	<b>2638</b>	<b>33454</b>	<b>37</b>	<b>36055</b>		<b>1110</b>	<b>37165</b>	<b>2103</b>	<b>1327</b>	<b>3430</b>	<b>32482</b>	<b>37</b>	<b>35875</b>	<b>1290</b>
	All Rail Shipments										448	1327	1775	15204	1	16978	
	Lake Shipments										1655		1655	17278	36	18897	

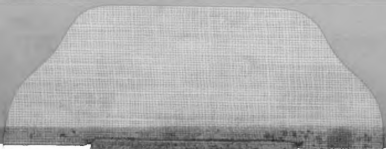
# THE CLEVELAND-CLIFFS IRON CO.

PIONEER FURNACE NO. 1.

List of unpaid vouchers - - - - November 30th, 1906.

Number	In favor of	Amount
12332	C. & N. W. Ry. Co.	60.00
12333	A. P. Meads	19 40
12334	T. H. Noble	86 05
12335	Mechanical Supply Company	2 61
12336	Mechanical Supply Company	25 34
12337	Gregory, Mayer & Thom Co.	12 50
12338	Fred. J. Cornell	192 14
12339	Jacob Roberts	79 72
12340	Milton Williams	532 36
12341	John Vinempaa	25 00
12343	Olaf Sorrenson	22 95
12345	The Brunswick-Balke-Collender Company	8 75
12346	The W. Bingham Company	12 24
12347	Osceola Mill & Elevator Company	9 82
12350	Chas. E. Mason	13 80
12351	Joseph Caron	24 84
12352	Mrs. Frank Caron	9 45
12353	Dominick Poupor	54 56
12355	Hibbard. Spencer, Bartlett & Co.	2 66
12356	Jack Smits	49 75
12357	Various men loading Cars	107 43
12358	Dr. George Bjorkman	202 00
12359	Austin Farrell	157 00
12360	C. C. Brown	15 90
12361	Consolidated Fuel & Lumber Co.	38 75
12362	Jas. B. Clow & Sons	16 40
12363	L. S. & I. Ry. Co.	20 25
12364	Chas. E. Mason	15 55
12365	W. J. Micks	31 19
12368	Standard Oil Company	21 16
12369	McDonough & Leslie	18 50
12370	C. D. Mason	49 78
12371	G. J. Slining	32 90
12372	Western Union Telegraph Company	1 00
12373	Escanaba & Gladstone Trans. Co.	7 11
12374	Main & Lapine	17 00
12375	William P. Belden	9 98
12376	C. C. Brown	32 86
12377	C. C. Brown	2 40
12381	C. D. Mason	7 12
12386	The Cleveland-Cliffs Iron Co., Mining Dept.	2 40
12387	Brampton Township Taxes	4547 98
12388	Garden " "	16 97
12389	Inwood " "	933 24
12390	Mathias " "	1589 44
12391	Masonville " "	1099 61
12392	Harrison " "	85 56
12393	Limestone " "	660 71
12394	Gladstone City "	381 87
	<b>TOTAL</b>	<b>11366 00</b>

1905/538



PIONEER IRON COMPANY

MISCELLANEOUS DATA

PIONEER FURNACE NO.2

- 1 Comparative Pig Iron Cost Sheet
- 2 Pig Iron Cost Sheet, Bessemer
- 3 Pig Iron Cost Sheet, Non-Bessemer
- 4 Comparative Statement of Refined Alcohol Cost Sheets
- 5 Comparative Statement of Acetate of Lime Cost Sheets
- 6 Formaldehyde Cost Sheet - *Liquid and Solid*
- 7 Comparative Wood Cost Sheet
- 8 Stable Expense
- 9 Comparative Charcoal Cost Sheet
- 10 Cost of Loading and Hauling Eben Wood
- 11 Cost of Loading and Hauling Munising East Wood
- 12 Cost of Loading and Hauling Munising East Wood
- 13 Pig Iron Stock Report, Nov. 30th, 1906.
- 14 Stock Report, Nov. 30th, 1906
- 15 Labor Statement for Year
- 16 Shop Labor Statement
- 17 Comparative Statement of Taxes
- 18 Legal Expenses
- 19 ~~General Expenses~~
- 20 Donation Statement
- 22 Salaries and Perquisites - See C. C. I. Co. Furnace Dept.
- 22 Percent of Division of Common Expense
- 23 Comparative Wood Report
- 24 Cost of Stable Expense
- 25 Steam Coal Used
- 26 ✓ Charges to Rented Houses and Rents Received
- 27 Stock Accounts
- 28 Side Ledger Trial Balance
- 29 New Construction and Improvements which has been charged off
- 30 Comparative Statement of General Office Expense 1905- 6

CARP RIVER FURNACE

- 31 Pig Iron Cost Sheet, Carp Furnace
- 32 Wood Report for the Year
- 33 Comparative Charcoal Cost Sheet
- 34 Stock Report
- 35 Labor Statement
- 28 Side Ledger Trial Balance
- 27 Stock Accounts
- 36 Pig Iron Stock Report
- 37 General Expense

FURNACE DEPT. GENERAL

- 38 Fire Insurance In Force
- 39 New Construction and Improvement

40 - *Repairs to Mr Tarrells Residence*

DETAIL OF STOCK USED

O R E	1906						1905					
	Tons	Lbs.	Price	Amount	Cost Per Ton	Percent Ore Used	Tons	Lbs.	Price	Amount	Cost Per Ton	Percent Ore Used
L a k e	61454	630	2 789	171346 82	4 797	86 3	64251	980	2 234	143543 71	3 628	83 5
Cliffs Shaft	5082	1967	3 494	17754 09	497	7 1	5805	460	3 041	17653 62	446	7 5
Lake Silica	2013	1370	1 420	2859 91	080	2 8	1242	1190	1 300	1610 54	041	1 6
Lake Bessemer							2547	1970	2 981	7595 49	192	3 3
Lake Bessemer Silica	615	1330	1 447	890 85	025	9						
Pewabic							302	20	5 871	1773 16	045	4
Clinton	722	20	2 629	1898 04	053	1 0	1030	1450	2 618	2698 55	068	1 3
Toledo							319	1040	3 622	1157 01	029	4
South Jackson	171	2210	1 425	245 01	007	2						
Cambridge	579	1640	2 394	1387 69	039	8	745	1190	1 780	1959 53	049	1 0
Bedford	31	660	2 982	93 32	003	1						
Imperial	543	1730	1 873	1018 63	026	8	739	520	1 934	1429 71	036	1 0
Wood for thawing ore				690 92	019					689 89	017	
Dr. a/c yrs. analysis ore				169 76	005					44 30	000	
Total	71215	357	2 744	198365 04	5 551	100 0	76983	2100	2 331	180155 51	4 551	100 0
Cr. a/c yrs. analysis ore				3946 40	110					1355 36	034	
Total	71215	357	2 744	194408 64	5 441	100 0	76983	2100	2 331	178800 15	4 517	100 0
Limestone	3248	1920	1 336	4341 97	122		2196	1460	1 351	2968 03	075	
Charcoal, bushels	3408310		072	245527 72	6 872		3618600		070	255298 80	6 450	

PIONEER IRON COMPANY  
Pioneer Furnace No. 2

COMPARATIVE STATEMENT OF PIG IRON COST SHEETS FOR 1905 AND 1906.

Blast No. 1 Tons Made This Blast - 141264	IRON MADE IN 1906, 35728 TONS				IRON MADE IN 1905, 39581 TONS				
	Labor	Supplies	Total	Cost Per Ton	Labor	Supplies	Total	Cost Per Ton	
<b>GENERAL EXPENSE:</b>									
Insurance		129 51	129 51	004		65 35	65 35	001	
Taxes		5602 03	5602 03	157		5365 08	5365 08	136	
Analysis	1400 24	1067 48	2467 72	069	1472 66	753 19	2225 85	056	
Salaries and Other Expenses	6880 55	3210 19	9590 74	268	6634 03	2488 17	9122 20	231	
<b>Total</b>	<b>7780 79</b>	<b>10009 21</b>	<b>17790 00</b>	<b>498</b>	<b>8106 69</b>	<b>8671 79</b>	<b>16778 48</b>	<b>424</b>	
<b>MAINTENANCE:</b>									
Tracks and Yard	982 35	202 58	1184 93	033	693 46	94 31	787 77	020	
Trestles and Dock	66 23	37 78	104 01	003		7 50	7 50	000	
Buildings	658 45	1062 67	1721 12	048	389 11	602 05	991 16	025	
Machinery	1215 25	1635 14	2850 39	080	661 24	1061 40	1722 64	044	
Tuyeres	260 89	730 36	991 25	028	383 02	1127 24	1510 26	038	
Relinings and Renewals		3599 20	3599 20	100		3971 00	3971 00	100	
Water Supply	55	1 66	2 21	000	12 58	1 82	14 40	000	
Pig Iron Trucks, Coal & Ore Buggies	316 57	290 31	606 88	017	117 38	52 77	170 15	004	
Stack	74 54	114 52	189 06	005	85 46	59	86 05	002	
Stoves	830 38	199 30	1029 68	030	1131 40	90 41	1221 81	032	
Cleaning Up	1239 22	10 20	1249 42	035	772 65	11 65	784 30	020	
<b>Total</b>	<b>5644 43</b>	<b>7883 72</b>	<b>13528 15</b>	<b>379</b>	<b>4246 30</b>	<b>7020 74</b>	<b>11267 04</b>	<b>285</b>	
<b>OPERATING:</b>									
Machinery	3659 33	633 68	4343 01	122	3103 80	705 72	3809 52	096	
Electric Light	794 44	474 49	1268 93	036	708 03	354 76	1062 79	027	
Bottom Fillers	2713 33	61 45	2774 78	078	2806 10	81 18	2887 28	073	
Top Fillers	2775 51		2775 51	078	2730 64		2730 64	070	
Handling Iron	5244 14	10 10	5254 24	147	5493 43	20 24	5513 67	140	
Handling Cinder	4864 80	575 06	5439 86	152	4382 70	477 73	4860 43	123	
Weighing and Grading Iron	648 95		648 95	018	638 75		638 75	016	
Founders, Keepers and Helpers	10118 44		10118 44	283	10003 16	111 25	10114 41	256	
Coal Forkers	11793 14	188 73	11981 87	336	11952 78	222 74	12175 52	308	
Casting Tools	429 42	449 62	879 04	025	397 06	353 32	750 38	019	
Sand and Clay		862 82	862 82	023		748 69	748 69	018	
Cleaning Stoves	331 62	40 11	371 73	010	434 10	20 23	454 33	011	
Boiler Fuel	161 61	1593 52	1755 13	049	60 67	786 80	847 47	020	
<b>Total</b>	<b>43534 73</b>	<b>4939 58</b>	<b>48474 31</b>	<b>1 357</b>	<b>42711 22</b>	<b>3882 66</b>	<b>46593 88</b>	<b>1 177</b>	
<b>STOCK USED:</b>									
Ore		194408 64	194408 64	5 441		178800 15	178800 15	4 517	
Charcoal		245527 72	245527 72	6 872		255298 80	255298 80	6 450	
Limestone		4341 97	4341 97	122		2968 03	2968 03	075	
<b>Total</b>		<b>444278 33</b>	<b>444278 33</b>	<b>12 435</b>		<b>437066 98</b>	<b>437066 98</b>	<b>11 042</b>	
<b>Cost of Production</b>									
		56959 95	467110 84	524070 79	14 669	55064 21	456642 17	511706 38	12 928
<b>DEPRECIATION:</b>									
Equipment		5773 25	5773 25	162		6567 23	6567 23	166	
Construction		35992 00	35992 00	1 007		39710 00	39710 00	1 003	
Improvement						380 81	380 81	009	
<b>Total</b>		<b>41765 25</b>	<b>41765 25</b>	<b>1 169</b>		<b>46658 04</b>	<b>46658 04</b>	<b>1 178</b>	
Over-run Supply Accounts		92 43	92 43	003		112 02	112 02	003	
Sale of scrap material						60 00	60 00	001	
<b>Total</b>		<b>41672 82</b>	<b>41672 82</b>	<b>1 166</b>		<b>46486 02</b>	<b>46486 02</b>	<b>1 174</b>	
<b>Total Cost On Yard</b>									
	56959 95	508783 66	565743 61	15 835	55064 21	503128 19	558192 40	14 102	
<b>LOADING &amp; SWITCHING:</b>									
Freight Allowance		570 75	570 75	016					
Loading Cars, Tons	35231	27252	2138 08	061		1641 77	1641 77	060	
Switching	35231	27252	416 56	012	187 09	146 44	333 53	012	
<b>Total Loading Cars</b>	<b>263 95</b>	<b>2861 44</b>	<b>3125 39</b>	<b>087</b>	<b>187 09</b>	<b>1788 21</b>	<b>1975 30</b>	<b>072</b>	
Loading Vessels, Tons		23140			181 38	11219 02	11400 40	492	
Paid Superior Charcoal Iron Co.						453 30	453 30		
<b>Grand Total</b>	<b>57223 90</b>	<b>511645 10</b>	<b>568369 00</b>	<b>15 922</b>	<b>55432 68</b>	<b>516588 72</b>	<b>572021 40</b>	<b>14 452</b>	
Construction Accounts not Sunk off			290668 17				326660 17		
Cost Per Ton For Labor				1 602				1 400	

SUMMARY OF COST PER TON

	On Yard			On Cars			On Ves'l			YIELD		
	1906	1905		1906	1905		1906	1905		1906	1905	
Cost on yard, as above	15 835		15 835	14 102		14 102	14 102					
Cost to load, as above			087			072			492			
<b>Total</b>	<b>15 835</b>	<b>15 922</b>	<b>15 835</b>	<b>14 102</b>	<b>14 174</b>	<b>14 594</b>	<b>14 594</b>	<b>14 594</b>	<b>14 594</b>	<b>50<sup>2</sup> 95<sup>4</sup></b>	<b>51<sup>6</sup> 91<sup>2</sup></b>	
Com. and Expenses, Cleveland Office	350	350	350	350	350	350	350	350	350	204	124	
<b>Total Cost</b>	<b>16 185</b>	<b>16 272</b>	<b>16 185</b>	<b>14 452</b>	<b>14 524</b>	<b>14 944</b>	<b>14 944</b>	<b>14 944</b>	<b>14 944</b>			



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

COMPARATIVE STATEMENT OF REFINED ALCOHOL COST SHEETS FOR 1905 AND 1906

	GALLONS PRODUCED 1906, 273206				GALLONS PRODUCED 1905, 347929½			
	Labor	Supplies	Total	Cost Per Gal.	Labor	Supplies	Total	Cost Per Gal.
<b>GENERAL EXPENSE:</b>								
Insurance		5199 96	5199 96	019		5199 96	5199 96	015
Taxes		5602 03	5602 03	021		5365 07	5365 07	016
Water Contamination						295 60	295 60	001
Consulting Chemist	213 75	31 79	245 54	000				
Analysis	538 49	410 56	949 05	003	565 77	227 35	793 12	002
Salaries & Other Expenses	2540 40	1013 60	3554 00	013	2503 96	950 13	3454 09	010
<b>Total</b>	<b>3292 64</b>	<b>12257 94</b>	<b>15550 58</b>	<b>056</b>	<b>3069 73</b>	<b>12038 11</b>	<b>15107 84</b>	<b>044</b>
<b>MAINTENANCE:</b>								
Tanks and Stills	1470 84	1436 99	2907 83	011	1137 56	1523 31	2660 87	007
Condensers	85 21	174 65	259 86	001	182 06	132 94	315 00	001
Machinery	506 48	721 86	1228 34	005	392 67	232 02	624 69	002
Boilers	644 23	1060 49	1704 72	006	635 18	953 03	1588 21	004
Fans and Pulleys	20 13	8 75	28 88	000	12 90	2 04	14 94	000
Smoke Mains	102 06	24 25	126 31	000	485 96	110 46	596 42	002
Buildings	61 68	91 79	153 47	001	107 55	99 45	207 00	001
Cleaning Up	53 10		53 10	000				
Water Supply					78 85	20	79 05	000
<b>Total</b>	<b>2943 73</b>	<b>3518 78</b>	<b>6462 51</b>	<b>024</b>	<b>3032 73</b>	<b>3053 45</b>	<b>6086 18</b>	<b>017</b>
<b>OPERATING:</b>								
Superintendent	1425 00		1425 00	005	1200 00		1200 00	003
Stillmen	6806 10	16 15	6822 25	025	8298 88	33 78	8332 66	024
Engineers	1682 54		1682 54	006	1614 79		1614 79	005
Firemen	968 59		968 59	004	592 74	1 16	593 90	001
Machinery	2621 06	664 07	3285 13	012	2402 90	676 82	3079 72	009
Boilers	272 42	95 16	367 58	001	204 42	99 28	303 70	001
Fuel	320 30	2823 53	3143 83	012	294 88	4262 91	4557 79	013
Electric Light	303 29	342 12	645 41	002	272 99	348 29	621 28	002
Lime		5695 45	5695 45	021		7311 05	7311 05	022
Chemicals		338 60	338 60	001		399 20	399 20	001
Filter	1077 58	207 40	1284 98	005	287 49	60 04	347 53	001
<b>Total</b>	<b>15476 88</b>	<b>10182 48</b>	<b>25659 36</b>	<b>094</b>	<b>15169 09</b>	<b>13192 53</b>	<b>28361 62</b>	<b>082</b>
<b>Cost of Production</b>	<b>21713 25</b>	<b>25959 20</b>	<b>47672 45</b>	<b>174</b>	<b>21271 55</b>	<b>28284 09</b>	<b>49555 64</b>	<b>143</b>
<b>DEPRECIATION:</b>								
Construction		43380 00	43380 00	159		42642 24	42642 24	122
Improvement		279 10	279 10	001				
<b>Total</b>		<b>43659 10</b>	<b>43659 10</b>	<b>160</b>		<b>42642 24</b>	<b>42642 24</b>	<b>122</b>
Over-run Supply Account		47 88	47 88	000		39 50	39 50	000
Sale scrap material						45 12	45 12	000
<b>Total</b>		<b>43611 22</b>	<b>43611 22</b>	<b>160</b>		<b>42557 62</b>	<b>42557 62</b>	<b>122</b>
<b>Total Cost</b>	<b>21713 25</b>	<b>69570 42</b>	<b>91283 67</b>	<b>334</b>	<b>21271 55</b>	<b>70841 71</b>	<b>92113 26</b>	<b>265</b>
<b>LOADING &amp; SWITCHING:</b>								
	<b>1906</b>	<b>1905</b>						
Barrels	196046½	286044 Gal.	6777 15	6777 15	035	9711 50	9711 50	034
Loading	196046½	286044 "	114 59	187 69	001	190 45	75 07	265 52
Switching	196046½	286044 "	9 45	5 58	000	11 02	7 37	18 39
<b>Total</b>	<b>124 04</b>	<b>6970 42</b>	<b>7094 46</b>	<b>026</b>	<b>201 47</b>	<b>9793 94</b>	<b>9995 41</b>	<b>035</b>
<b>Total Cost On Cars</b>	<b>21837 29</b>	<b>76540 84</b>	<b>98378 13</b>	<b>360</b>	<b>21473 02</b>	<b>80635 65</b>	<b>102108 67</b>	<b>293</b>
Construction Account Not Sunk Off			287552 66				330932 66	
Improvement Account Not Sunk Off			4678 75				921 42	
Yield of Alcohol per Cord of Wood					<u>432</u>			<u>440</u>
<b>1906 1905</b>								
Smoke Received From 63205 79044								

Number of days operated in 1905, 354  
 " " " " " 1906, 303

PIONEER IRON COMPANY  
Furnace Department

**PIONEER IRON COMPANY**  
Furnace Department

STEELER IRON STATEVA

COMPARATIVE STATEMENT OF ACETATE COST SHEETS FOR 1905 AND 1906.

	POUNDS PRODUCED 1906, 2466030				POUNDS PRODUCED 1905, 2846046			
	Average Per Day				Average Per Day			
	Labor	Supplies	Total	Cost Per Cwt.	Labor	Supplies	Total	Cost Per Cwt.
<b>GENERAL EXPENSE:</b>								
Analysis	107 73	82 09	189 82	008	103 38	41 16	144 54	005
Salaries & Other Expenses	490 80	202 70	693 50	028	459 16	176 95	636 11	022
Consulting Chemist	213 74	31 79	245 53	009				
Water Contamination						295 60	295 60	011
<b>Total</b>	<b>812 27</b>	<b>316 58</b>	<b>1128 85</b>	<b>045</b>	<b>562 54</b>	<b>513 71</b>	<b>1076 25</b>	<b>038</b>
<b>MAINTENANCE:</b>								
Buildings	26 62	30 98	57 60	002	34 38	3 05	37 43	001
T a n k s		4 80	4 80	000				
Conveyor	97 97	53 95	151 92	006	99 58	57 83	157 41	006
Dryer	360 26	121 43	481 69	020	576 14	186 24	762 38	027
Piping	146 06	98 08	244 14	010	218 87	51 44	270 31	009
Boilers	103 33	206 57	309 90	013	93 86	204 43	298 29	010
Generator					3 81	58 37	62 18	002
Lillie Apparatus	30 57	5 58	36 15	001				
Motors	16 19	2 48	18 67	001	6 47	61	7 08	000
Machinery	171 65	152 34	323 99	013	69 45	59 75	129 20	004
P a n s	67 30	3 11	70 41	003	282 76	28 88	311 64	012
<b>Total</b>	<b>1019 95</b>	<b>679 32</b>	<b>1699 27</b>	<b>069</b>	<b>1385 32</b>	<b>650 60</b>	<b>2035 92</b>	<b>071</b>
<b>OPERATING:</b>								
Machinery	264 26	233 89	498 15	020	237 26	236 21	473 47	016
Skimming	1351 87	41 76	1393 63	057	2465 23	11 63	2476 86	088
Engineers	370 46		370 46	015	355 52		355 52	012
Firemen	214 00		214 00	009	130 50	25	130 75	004
F u e l	1293 54	12472 69	13766 23	559	1604 64	19524 65	21129 29	744
Electric Light	60 63	98 44	159 07	006	50 31	144 53	194 84	007
Boilers	60 49	20 69	81 18	003	38 73	20 48	59 21	002
Firing Generator	1022 03		1022 03	041	1290 70		1290 70	045
Lillie Apparatus	1089 32	9 90	1099 22	045	43 70		43 70	001
Rakers	167 62	8 83	176 45	007				
<b>Total</b>	<b>5894 22</b>	<b>12886 20</b>	<b>18780 42</b>	<b>762</b>	<b>6216 59</b>	<b>19937 75</b>	<b>26154 34</b>	<b>919</b>
<b>Cost of Production</b>	<b>7726 44</b>	<b>13882 10</b>	<b>21608 54</b>	<b>876</b>	<b>8164 45</b>	<b>21102 06</b>	<b>29266 51</b>	<b>1 028</b>
<b>DEPRECIATION:</b>								
Construction		3576 61	3576 61	145		3600 00	3600 00	127
Improvement		989 99	989 99	040				
<b>Total</b>		<b>4566 60</b>	<b>4566 60</b>	<b>185</b>		<b>3600 00</b>	<b>3600 00</b>	<b>127</b>
<b>Total Cost</b>	<b>7726 44</b>	<b>18448 70</b>	<b>26175 14</b>	<b>1 061</b>	<b>8164 45</b>	<b>24702 06</b>	<b>32866 51</b>	<b>1 155</b>
<b>LOADING &amp; SWITCHING:</b>								
	1906	1905						
Sacks	2466030	2846046 Lbs.	1452 88	1452 88	059	1124 21	1124 21	040
Loading	2382131	2842086 "	325 04	325 04	014	225 60	8 00	233 60
Switching	2382131	2842086 "	9 87	15 62	001	10 10	6 94	17 04
Storing	725737	"	102 06	102 06	014			
<b>Total</b>			<b>436 97</b>	<b>1458 63</b>	<b>077</b>	<b>235 70</b>	<b>1139 15</b>	<b>1374 85</b>
<b>Total Cost On Cars</b>	<b>8163 41</b>	<b>19907 33</b>	<b>28070 74</b>	<b>1 138</b>	<b>8400 15</b>	<b>25841 21</b>	<b>34241 36</b>	<b>1 203</b>
Construction Account Not Sunk Off			28592 03				32504 15	
Improvement Account Not Sunk Off			16775 90				5373 56	
Yield Per Cord Wood			468 67 92	51 1/2				

Number of days operated in 1905, 314  
 " " " " " 1906, 239

# PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

Solid Formaldehyde Cost Sheet

Year, 1906

Cunces produced	1428				Cost per Oz.
		Labor	Sup- plies	Total	
<b>General Expense</b>					
Generators			90	90	0006
Sales Agent			71 15	71 15	0498
<b>Total</b>			<b>72 05</b>	<b>72 05</b>	<b>0504</b>
<b>Operating</b>					
Liquid Formaldehyde			30 35	30 35	0212
<b>Total</b>			<b>30 35</b>	<b>30 35</b>	<b>0212</b>
<b>Loading &amp; Shipping</b>					
Packages			19 04	19 04	0134
Boxing & Labeling		64		64	0004
Teaming			1 00	1 00	0007
<b>Total</b>		<b>64</b>	<b>20 04</b>	<b>20 68</b>	<b>0145</b>
<b>Grand Total</b>		<b>64</b>	<b>122 44</b>	<b>123 08</b>	<b>0861</b>

Remarks:

"Liquid Formaldehyde" 357# @ 8½¢ 30 35

"Packages" 76 Jars, Corks & Parafine 19 04

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

**COMPARATIVE STATEMENT OF FORMALDEHYDE COST SHEETS For 1905 and 1906**

	POUNDS PRODUCED 1906, 565967				POUNDS PRODUCED 1905, 507995½			
	No. days operating 266				No. days operating 271			
	Labor	Supplies	Total	Cost per lb.	Labor	Supplies	Total	Cost per lb.
<b>GENERAL EXPENSE</b>								
Analysis	107 72	82 09	189 81	001	122 94	76 05	198 99	000
Salaries & Other Expenses	490 80	235 27	726 07	001	847 40	757 98	1605 38	003
Consulting Chemist	45 00	6 70	51 70	000				
<b>Total</b>	<b>643 52</b>	<b>324 06</b>	<b>967 58</b>	<b>002</b>	<b>970 34</b>	<b>834 03</b>	<b>1804 37</b>	<b>003</b>
<b>MAINTENANCE</b>								
Tanks & Stillls	281 86	616 61	898 47	002	197 92	286 00	483 92	001
Machinery	53 43	60 86	114 29	000	24 66	25 60	50 26	000
Boilers	37 27	97 42	134 69	000	44 98	85 12	130 10	000
Buildings	1 12	17 68	18 80	000	117 47	14 44	131 91	001
Water Supply					32	02	34	000
<b>Total</b>	<b>373 68</b>	<b>792 57</b>	<b>1166 25</b>	<b>002</b>	<b>385 35</b>	<b>411 18</b>	<b>796 53</b>	<b>002</b>
<b>OPERATING</b>								
Stillmen	1196 10		1196 10	002	1128 66	8 98	1137 64	002
Engineers	161 93		161 93	000	162 80		162 80	000
Firemen	98 31		98 31	000	59 72	14	59 86	000
Machinery	116 09	107 59	223 68	001	108 97	89 71	198 68	001
Boilers	30 05	10 51	40 56	000	18 55	10 33	28 88	000
Fuel	174 65	1400 18	1574 83	003	120 20	1586 36	1706 56	003
Electric light	60 63	38 94	99 57	000	58 59	33 34	91 93	000
Copper netting		802 03	802 03	001		561 40	561 40	001
Alcohol		32630 58	32630 58	058		30380 64	30380 64	060
<b>Total</b>	<b>1837 70</b>	<b>34989 83</b>	<b>36827 59</b>	<b>065</b>	<b>1657 49</b>	<b>32670 90</b>	<b>34328 39</b>	<b>067</b>
Cost of production	2854 96	36106 46	38961 42	069	3013 18	33916 11	36929 29	072
<b>DEPRECIATION</b>								
Construction Account		2820 00	2820 00	005		2206 20	2206 20	005
Total cost	2854 96	38926 46	41781 42	074	3013 18	36122 31	39135 49	077
<b>LOADING &amp; SWITCHING</b>								
Packages	lbs. 589164	503730						
Loading	99 47	122 70	222 17	000	77 29	25 85	103 14	000
Switching	4 49	2 58	7 07	000	2 38	1 66	4 04	000
<b>Total</b>	<b>103 96</b>	<b>3455 55</b>	<b>3559 51</b>	<b>006</b>	<b>79 67</b>	<b>2808 46</b>	<b>2888 18</b>	<b>005</b>
Total cost on cars	2958 92	42382 01	45340 93	080	3092 85	38930 77	42023 62	082
Construction account not sunk off			19774 84				22594 84	

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

COMPARATIVE STATEMENT OF SOLID FORMALDEHYDE COST SHEETS FOR 1905 AND 1906.

	OUNCES PRODUCED 1906 1428				OUNCES PRODUCED 1905, 51779.			
	Labor	Supplies	Total	Cost per oz.	Labor	Supplies	Total	Cost per Oz.
<b>GENERAL EXPENSE</b>								
Stationery & Printing						24 00	24 00	0005
Analysis & Testing						109 70	109 70	0022
Trade Mark						65 00	65 00	0011
Sales Agent		71 15	71 15	0498		1504 90	1504 90	0291
Freight & Express						4 88	4 88	0001
Traveling						84 50	84 50	0016
Generators		90	90	0006		55 20	55 20	0011
<b>Total</b>		<b>72 05</b>	<b>72 05</b>	<b>0504</b>		<b>1848 18</b>	<b>1848 18</b>	<b>0357</b>
<b>MAINTENANCE</b>								
Tanks & Stills						96 20	96 20	0018
<b>Total</b>						<b>96 20</b>	<b>96 20</b>	<b>0018</b>
<b>OPERATING</b>								
Liquid Formaldehyde		30 35	30 35	0212		1099 97	1099 97	0212
Miscellaneous -						4 63	4 63	0001
<b>Total</b>		<b>30 35</b>	<b>30 35</b>	<b>0212</b>		<b>1104 60</b>	<b>1104 60</b>	<b>0213</b>
<b>LOADING &amp; SHIPPING</b>								
Packages		19 04	19 04	0134		714 01	714 01	0138
Boxing & Labeling	64		64	0004	89 65	70 36	160 01	0031
Teaming		1 00	1 00	0007		13 70	17 00	0003
Loading					1 81	9 00	10 81	0003
<b>Total</b>	<b>64</b>	<b>20 04</b>	<b>20 68</b>	<b>0145</b>	<b>94 76</b>	<b>807 07</b>	<b>901 83</b>	<b>0175</b>
<b>GRAND TOTAL</b>	<b>64</b>	<b>122 44</b>	<b>123 08</b>	<b>0861</b>	<b>94 76</b>	<b>3856 05</b>	<b>3950 81</b>	<b>0763</b>

Remarks:-

"Liquid Formaldehyde" 375# @ 8 1/2¢  
"Packages" 76 jars, corks & parafine

30 35  
19 04

Liquid Formaldehyde 12941# @ 8 1/2¢ 1099.97  
"Packages" Jars, Corks & Parafine 714.01

1428      375  
51779      12941  
4.      53207      13316  
         53264      11

PIONEER IRON COMPANY  
 WOOD REPORT  
 COMPARATIVE  
 K I L N S  
 Y A R D  
 1906 - 1905

# PIONEER IRON COMPANY

PIONEER FURNACE NO. 2.

## COMPARATIVE WOOD REPORT

For years ending November 30th, 1906 and 1905.

	C O R D S			
	1 9 0 6		1 9 0 5	
<b>Wood received:</b>				
Inventory Dec. 1st, 1905, Kilns	5573	250		
"    "    "    "    Yard	658	500		
"    "    "    1904, Kilns			6293	000
"    "    "    "    Yard			5191	750
From Munising East	35786	000	46565	750
"    "    West	24657	750	15052	750
"    Eben	6042	500	12518	750
"    along Munising Railway			3291	875
"    Jobbers	4470	750	7898	500
"    Limestone (C.C.I.Co.)	8630	500	85377	675
<b>Total received at furnace</b>	<b>85819</b>	<b>250</b>	<b>96812</b>	<b>375</b>
<b>Wood consumed:</b>				
Carbonized in kilns	79869	000	90008	000
Sold to tenants	116	000	153	000
Shortage Section 31, Eben			21	250
"    Wood along Munising Ry.			398	375
<b>Total wood consumed</b>	<b>79985</b>	<b>000</b>	<b>90580</b>	<b>625</b>
<b>Wood on hand:</b>				
Inventory Dec. 1st, 1906, Kilns	5444	000		
"    "    "    "    Yard	390	250		
"    "    "    1905, Kilns			5573	250
"    "    "    "    Yard			658	500
<b>T O T A L</b>	<b>5834</b>	<b>250</b>	<b>6231</b>	<b>750</b>

PIONEER IRON COMPANY  
 PIONEER FURNACE #2  
 STABLE EXPENSE  
 1906

PIONEER IRON COMPANY,  
 Pioneer Furnace #2.

STATEMENT SHOWING COST OF STABLE EXPENSE FOR YEAR 1906.

<u>COMMODITIES ETC.</u>	<u>TOTAL COST</u>	<u>COST PER HORSE PER DAY</u>
Hay .....	217.80.	.108
Oats .....	613.25	.305
Feed .....	4.25	.002
Bran .....	6.40	.003
Middlings .....	2.80	.001
Straw .....	7.30	.004
Medicine .....	4.75	.002
Shoeing .....	59.64	.030
Repairs to Carts, Wagons & Sleighs ....	120.78	.061
"    "  Harness.....	28.33	.014
Curry Combs, Brushes, Grease, Oil, &c.	8.10	.004
<b>Total</b>	<b>1073.40</b>	<b>.534</b>

3 Horses on Cinder Carts	1095 Days
2 " " Braize Carts	730 "
1 " " Team Work	<u>183 "</u>
	2008 "

## PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2.

COMPARATIVE  
CHARCOAL COST SHEET.

For the years, 1905 and 1906.

ACCOUNT	Year 1906			Year 1905		
	BUSHEL	AMOUNT	Cost per Bus.	BUSHEL	AMOUNT	Cost per Bus.
PIONEER FURNACE KILNS—	3418082			3628520		
Wood,		213648 99	0628		222790 60	0614
Loading from Yard,		934 12	0003		1211 41	0003
Packing,						
Kiln Tending,				#	101 40	0000
Taking out Breeze,						
Whitewashing,						
Cleaning out Kilns,						
Depreciation,		8545 27	0025		9071 30	0025
Repairs,		352 33	0001		120 69	0000
Breezeman,		1679 93	0005		1240 61	0003
Contractor, Jno. McCall		21101 53	0062		21464 38	0060
Total,		246262 17	0724		256000 39	0705
Average yield per cord,			42 <sup>7</sup>			40 <sup>3</sup>
Cords Carbonized,			79869			90008
Cords Carbonized per Kiln,			929			1046 <sup>9</sup>
Bushels per Kiln,			39745			2877
FROM JOBBERS—						
Coal,						
Freight,						
Switching,						
General Expense,						
Total,						
Grand Total,	3418082	246262 17	0724	3628520	256000 39	0705

## REMARKS:

# "Kiln Tending" 1905  
Expense of kiln foreman from Gladstone to instruct colliers.



# PIONEER IRON COMPANY.

## FURNACE DEPARTMENT.

Cost of Loading and Hauling E B E N Wood, For year 1906

Loaded and Hauled this Month.....Cords.  
 Loaded and Hauled 12 Months..... 7662 Cords.

	Labor	Supplies	Total	Total .....Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	2402 87	18 57	2421 44			316
Swampers	1962 21	27 61	1989 82			260
Car Loaders	602 58	2 95	605 53			079
Foreman	284 00		284 00			037
<b>TOTAL,</b>	<b>5251 66</b>	<b>49 13</b>	<b>5300 79</b>			<b>692</b>
<b>Roads—</b>						
Making and Maintaining	1442 11		1442 11			188
<b>TOTAL,</b>	<b>1442 11</b>		<b>1442 11</b>			<b>188</b>
<b>Barn—</b>						
Hay	3 57	504 87	508 44			066
Oats	2 55	1108 02	1110 57			145
Feed and Bran						
Shoeing and Shoes	222 59	28 70	251 29			033
Oil and Grease						
Horse Medicine		8 33	8 33			001
Barn Boss	165 73		165 73			022
<b>TOTAL,</b>	<b>394 44</b>	<b>1649 92</b>	<b>2044 36</b>			<b>267</b>
<b>Repairs—</b>						
Wagons and Drays		6 82	6 82			001
Sleighs		11 36	11 36			001
Harness		122 64	122 64			016
Buildings		76 16	76 16			010
<b>TOTAL,</b>		<b>216 98</b>	<b>216 98</b>			<b>028</b>
<b>COST TO LOAD</b>	<b>7088 21</b>	<b>1916 03</b>	<b>9004 24</b>			<b>1 175</b>
<b>Miscellaneous—</b>						
Depreciation		827 04	827 04			108
Moving Equipment		1 20	1 20			000
<b>TOTAL,</b>		<b>828 24</b>	<b>828 24</b>			<b>108</b>
Total Cost on Cars 1 Month						
Total Cost on Cars <b>12</b> Months	<b>7088 21</b>	<b>2744 27</b>	<b>9832 48</b>			<b>1 283</b>

Remarks

# PIONEER IRON COMPANY

## FURNACE DEPARTMENT.

Cost of Loading and Hauling MUNISING EAST Wood, Year ending Nov. 30th 1906

Loaded and Hauled this Month.....Cords.  
Loaded and Hauled 12 Months 42262½ Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	3927 70	81 57	9009 27			212
Swampers	5775 65	20 36	5796 01			139
Car Loaders	3221 00	52 18	3273 18			077
Foreman	650 00	4 50	654 50			015
TOTAL,	18574 35	158 61	18732 96			443
<b>Roads—</b>						
Making and Maintaining	5253 39	19 59	5272 98			125
TOTAL,	5253 39	19 59	5272 98			125
<b>Barn—</b>						
Hay	3 07	1891 25	1894 32			045
Oats	12 42	3740 19	3752 61			089
Feed and Bran		1 60	1 60			000
Shoeing and Shoes	669 70	96 23	765 93			018
Oil and Grease		41 62	41 62			001
Horse Medicine	47 60	184 86	232 46			006
Barn Boss	678 27	11 07	689 34			016
TOTAL,	1411 06	5966 82	7377 88			175
<b>Repairs— Well</b>						
Wagons and Drays	8 36	97	9 33			000
Sleighs		53 18	53 18			001
Harness		15 09	15 09			000
Buildings		196 78	196 78			005
TOTAL,	8 36	331 71	340 07			008
COST TO LOAD	25247 16	6476 73	31723 89			751
<b>Miscellaneous—</b>						
Depreciation		3874 51	3874 51			091
Moving Equipment						
TOTAL,		3874 51	3874 51			091
Credit		57 80	57 80			001
Total Cost on Cars 1 Month						
Total Cost on Cars 12Months	25247 16	10293 44	35540 60			841

**Remarks**

Credit:-

Rental of teams.

# PIONEER IRON COMPANY.

## FURNACE DEPARTMENT.

Cost of Loading and Hauling... **MUNISING WEST** ... Wood, ... For Year ... **1906**

Loaded and Hauled this Month..... Cords.  
Loaded and Hauled **12** Months. **28583** Cords.

	Labor	Supplies	Total	Total Months	Cost per Cord	
					1 Mo.	12 Mos.
<b>Teaming—</b>						
Teamsters	7073 85	62 01	7135 86			250
Swampers	8380 63	39 24	8419 87			295
Car Loaders	2231 16	48 75	2279 91			080
Foreman	450 00		450 00			015
TOTAL,	18135 64	150 00	18285 64			640
<b>Roads—</b>						
Making and Maintaining	117 75	6 60	124 35			004
TOTAL,	117 75	6 60	124 35			004
<b>Barn—</b>						
Hay	25 20	1674 16	1699 36			059
Oats	14 58	2802 43	2817 01 <small>6516 37</small>			099 <small>158</small>
Feed and Bran						
Shoeing and Shoes	660 00	91 94	751 94			026
Oil and Grease		23 40	23 40			001
Horse Medicine		45 15	45 15 <small>68 55</small>			002
Barn Boss	603 25		603 25			021
TOTAL,	1303 03	4637 08	5940 11			208
<b>Repairs— Well</b>						
Wagons and Drays		11 89	11 89			000
Sleighs		39 95	39 95			001
Harness	42 00	45 08	45 08			002
Buildings	42 00	325 00	367 00			013
	3 96	17 71	21 67			001
TOTAL,	45 96	439 63	485 59			017
COST TO LOAD	19602 38	5233 31	24835 69			869
<b>Miscellaneous—</b>						
Depreciation		2275 84	2275 84			080
Moving Equipment		41 82	41 82			001
TOTAL,		2317 66	2317 66			081
Total Cost on Cars 1 Month						
Total Cost on Cars 12 Months	19602 38	7550 97	27153 35			950

Remarks



PIONEER IRON COMPANY.

PIONEER FURNACE NO. 2  
FURNACE DEPARTMENT

Stock Report for Month ending Nov 30th

1906

PRODUCED OR RECEIVED

SHIPPED OR USED

	Total for Month	Previous Months	Over and Short for Season	Total from Dec. 1st, 1905	On Hand Dec. 1st, 1905	TOTAL	Total for Month	Previous Months	Over and Short for Season	Total from Dec. 1st, 1905	Balance on Hand	
<b>ORE:</b>												
Lake	6916-060	56046-2210		62963-030	826	63788-030	5168-1968	56285-00		61454-630	2334	
Cliffs Shatts		5187-020		5187-020	79	5266-020		5082-196		5082-1967	183-1193	
Clinton		722-20		722-20		722-20		722-20		722-20		
Cambridge					579-1040	579-1040		579-1040		579-1040		
Imperial					543-1730	543-1730		543-1730		543-1730		
Lake Bess. Silica		363-1330		363-1330	252	615-1330		615-1330		615-1330		
Lake Silica	186-760	1906-610		2152-1370		2152-1370	330-1739	1682-187		2013-1370	139-	
South Jackson		171-2210		171-2210		171-2210		171-2210		171-2210		
Bedford	31-660			31-660		31-660		31-660		31-660		
Total	7133-2080	64458-580		71502-420	2279-1130	73871-1550	5530-2122	65684-47		71215-357	2656-1193	
<b>WOOD:</b>												
WOOD CAMPS—Munising East	1214.875	43931.		45145.875	38821.375	84027.350	3608.25	38654.850		42262.50	41764.75 ✓	
"    Munising West	2003.750	31265.625		33929.375	26665.375	60494.750	2104.	26549		28653.	31841.75 ✓	
"    Eben	743.250	15347.		16090.250	8935.750	25026.	1345.25	6246.750		7592	17434. ✓	
Along Munising Ry. Co												
Received from Jobbers	36.50	4434.250		4470.750		4470.750	36.50	4434.250		4470.75		
C.O.I. Co., Limestone		8630.50		8630.50		8630.50		8630.50		8630.50		
Total Wood Camps	4658.375	103608.375		108206.750	74382.50	182649.250	7094	84514.750		91608.75	91040.50	
<b>FURNACE YARD:</b>												
Pioneer Furnace No. 2		2710.		2710.	658.50	3368.50	-742.50	2226.75		2978.25	390.25	
Total Camps and Yards	4658.375	106318.375		110976.750	75041.	186017.750	7836.50	86750.50		94587.	91430.75	
<b>KILNS:</b>												
Pioneer Furnace No. 2	6084.50	73655.250		79739.750	5573.25	85313.	6087	73762		79869	6444	
Total	10742.875	179973.625		190716.50	80614.250	271330.750	13923.50	160532.50		174456.	96874.75	
<b>Charcoal</b>												
Charcoal	Bushels	264977	3153106	3418082		3418082	264977	3153106		3418082		
Limestone	Tons	864-1580	1918-340	3082-1920	2224	5006-1920	213-490	3035-1430		3248-1920	1758-	
Alcohol	Gallons	31299	241907	273206	187204	2919264	25237	2312406		2564734	35453	
Acetate of Lime	Pounds	370185	2089418	2469603	3068	2469900	410808	1064806	647	3382131	87859	
Liquid Formaldehyde	Pounds	77902	489031	566937	78207	645174	85975	400455	6	575474	68700	
Solid Formaldehyde	Boxes		1422	1422		1422		1422		1422		
Liquid - returned			2624	2624	11423	14047		15047		14047		
					Shipped		85075	490098		576114		
					Concentrated			387		387		