

The jaw opening of these crushers was 18" by 24". The crushers were the heaviest that had been turned out in this locality at the time they were purchased and were supposed to be amply strong, but we had trouble with them from the start, following is list of most of the broken parts,

1 Head Block.	. . . . .	2,000 pounds.
18 " " Faces.	. . . . . 1,972	25,640 "
3 Jaw Faces,	. . . . . 1,225	3,675 "
3 Pitmans,	. . . . . 4,147	12,441 "
6 Sides,	. . . . . 10,000	60,000 "
2 - 9" Steel Shafts,	. . . . . 1,217	<u>2,535</u> "
Total weight of the heavy parts,		106,291 "

Additional to the above there were a quantity of toggles, wedges and liners that broke. Could not very well strengthen these crushers up any more without interfering with the working parts and it was thought best to order another crusher of the same size jaw opening but of a heavier pattern throughout. This new crusher was bought of the Lake Shore Iron Works and they have guaranteed the crusher against all repairs, due to weakness of any of the parts, for this past season and next. The machine was started on September 29th and has done most of the crushing since that time. The weight of this machine when it came was 76,397 pounds and two stronger sides, that have been put on since, makes 82,007 as the present weight. Each of the sides, now on, weigh 9 1/2 tons.

For Charcoal furnaces have closed jaws down to from 1/2" to 1" and with 3/4" movement of the lower end of the jaw it made from 1 1/4" to 1 3/4" as greatest thickness of slab that could get through. The size was very satisfactory but was pretty hard on the crushers.

For Coke furnaces the jaw was set at from 3/4" to 1 1/2" opening and

towards the end of the season, to avoid possible breakdowns, was set at from 2" to 2 1/2" and for the same reason the speed was decreased to 200 revolutions per minute. We started out with a speed of 235 and worked up to 250 until towards the last when, for reason stated, the same was cut down. The crushing plant is contained in a building that measures 32' by 42' with a wing 18' by 23'. The wing contains a 20" by 30" plain slide valve engine that drives the crushers. Pulley on engine shaft is 15' diameter and transmits the power through a 24" wide belt to a countershaft in the main building which in turn drives the crushers. This countershaft is fitted with 8' pulleys and there are two 6' pulleys on each crusher. These crusher pulleys take a 14" belt and all of the belts have tightener pulleys on them. The engine indicates from 180 to 200 Horse Power when running two crushers at ordinary work. The power must at times run up way above this when some particularly hard ore gets in machine but there is so much fly wheel action among all of these large pulleys that the engine does not show these sudden fluctuations. The rail road track runs parallel with and close to the north side of the crusher building and a couple of pockets under the track, and each holding a car load, lead directly to the crushers. As only the last heavy crusher is in condition to run at present, but one pocket has been used of late.

The ore dumps out of the large rail road cars through these pockets and into the opening to the crushers and after crushing it goes to a Hunt Conveyor which elevates and transfers this crushed material to an outside pocket, at west end of crusher building, and this shoots it into the same car again that it came out of. The conveyor is very efficient although a little light for such heavy work, have had some repairs to

make but not many. It was the heaviest conveyor of this style made but would be better if made heavier. We send sketch that fairly well represents the manner of operation. A photograph of the building itself is in the map book.

Saisbury Mine.

	Litchfield.	Silica.	Bess.	Non Bess.	Total.
Produced, previous year,			57,500	74,500	132,000
" present "	4,724	4,351	36,161	105,018	150,254
Shipped " "	4,724	662	63,660	93,658	162,704
On hand Dec. 1st 1894.		3,689	4,238	14,838	22,765
Ore in sight, underground,			62,000	123,000	185,000
Average men employed,	160.				

During the year the new engine house has been completed and two shifts put at work. In November sinking was resumed and 9 feet sunk, making depth of shaft 894 1/2 feet. Will go down to make a 60 foot lift of the 16th level and enough below it to form a sump of 30 to 35 feet.

On 7th level have, during the year, taken out all of the pillars around the old shaft, which has crushes so that it is impossible to get into it above the eighth level.

On 8th level have mined out all but about 4,000 tons of Non Bess. and are now working one gang east and two gangs west on this remaining ore.

On 9th level are not doing much on at the present, although have mined quite a little ore from here during the year. At present are working two gangs east of any ore being worked on the level over.

We estimate 18,000 tons of Non Bessemer Ore still left on this level and have three rises up, from next level under, through which to mill

*Think a good line: - from 1093 est.*

this ore still left.

On 10th level have put up the three rises above referred to but have done no mining to speak of on this level during the year. Estimate 16,000 tons still to be mined out. All non bessemer. *Much above 1893 est. 5*

On 11th level as many as six scrams have been worked during a part of the past year and are at present working in two places. Estimate is 10,000 Non Bessemer still left. *How many cu' to ton, 12' cu' to ton*

On 12th level have worked as high as five places during summer but are at present only working in two places, one at the east end and one on the hanging side part of the way in. This level has turned out considerable ore during the year and we estimate as still left, 8,000 tons of Non Bessemer.

On 13th level no extension has been made during the year but have opened up some rooms towards the western end as the maps will indicate. Are at present working but one gang on this level but could work more and have a couple of places that we could get some of the Silica grade of ore, if it was wanted. We estimate as left, 13,000 Non Bessemer, and 2,000 Bessemer. Some of this ore is hard and more expensive to mine.

On 14th level have been working from five to six parties of men during the year and have produced considerable ore. Some of the stopes are worked up to the other level and some up to the rock. Has not produced as much Bessemer as we would have liked but the ore is soft and easily mined. During the year the level has been extended west from 100 to 150 feet and now have jasper in this direction. Estimate as still left on this level 10,000 Bessemer and 4,000 Non Bessemer.

On 15th ,and present bottom level of the mine, have opened out the

entire level during the year but have produced no ore except from the developement drifts. The ore is soft and next summer, after the ore on the 14th and 13th levels, over this, is exhausted, will mine this by the caving system. The south side of the deposit on this level shows a length of 300 feet and greatest width of 120 feet and the north side of the deposit shows about 150 by 40. We estimate 50,000 Bessemer and an equal amount of Non Bessemer on this level to be mined out.

The 14th and 15th levels are turning out well and is the ore first coming in on the bottom of the 11th level, south of New Shaft. The old Salisbury Mine proper, worked from the open pit, plays out at the 14th level, as a glance at the maps will clearly indicate. Just what this new ore will amount to on lower levels is a matter of conjecture, but it bids fair to make up, for a time at least, the rapid exhaustion of the old mine.

Summary of Ore in sight.

Level.	Bessemer.	Non Bessemer.	Total.
8 . . . . .		4,000 . . . . .	4,000
9 . . . . .		18,000 . . . . .	18,000
10 . . . . .		16,000 . . . . .	16,000
11 . . . . .		10,000 . . . . .	10,000
12 . . . . .		8,000 . . . . .	8,000
13 . . . . .	2,000 . . . . .	13,000 . . . . .	15,000
14 . . . . .	10,000 . . . . .	4,000 . . . . .	14,000
15 . . . . .	<u>50,000</u> . . . . .	<u>50,000</u> . . . . .	<u>100,000</u>
<b>Total,</b>	<b>62,000 . . . . .</b>	<b>123,000 . . . . .</b>	<b>185,000</b>

Salisbury Mine.

Estimate of ore in sight is based on an accurate measurement of the pillars and of deposit left standing, figured at 12 cubic feet to the ton.

At this mine we estimate a production next year of,

50,000 tons Bessemer.

118,000 " Non Bessemer.

2,000 " Silica.

Total, 170,000 " at a cost of .70 per ton.

We hope to get the cost down to .60 " " but dislike to promise it.

Following is statement showing the amount of each grade of ore hoisted from each level of this mine last year,

Level.	Bessemer.	Non Bessemer.	Litchfield.	Silica.	Total.
7		4,451			4,451
8		11,068			11,068
9		20,519			20,519
10		8,483			8,483
11		24,107	1,240		25,347
12	10,765	20,010	1,522	1,847	34,144
13	2,427	9,460	360	1,426	13,673
14	19,773	5,050	1,602	220	26,645
15	<u>3,196</u>	<u>1,870</u>	<u>      </u>	<u>858</u>	<u>5,924</u>
Total,	36,161	105,018	4,724	4,351	150,254
1895.	50,000	118,000	0	2,000	170,000

52  
Everything was charged off at this mine last year as follows,

New Construction.

New yard for timber, supplies and material.	913.32	
Powder House built in new yard, old one too small	25.70	
Oil House, (old machine shop patched up.)	29.22	
Ore trestle and pocket for "Silica Ore."	994.76	
Filling stock pile dock, plank had settled.	549.11	
New Coal Trestle.	<u>1,761.97</u>	\$ 4,274.08

Improvement.

Heavier fly wheel on pumping engine	1,330.94	
Weights for bob and pump connection to engine.	558.92	
Condenser and connecting same, (pump condenser.)	750.24	
Shop, Office and Dry Buildings, (Alterations.)	<u>376.64</u>	3,016.74

*not mentioned in previous sheet*  
Cave In.

Amount charged direct,		13.05
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Moving boilers and machinery,	2,618.20	
New Engine House, (completion of same.)	1,059.22	
Foundation of new machinery (old plant.)	2,335.95	
Temporary Buildings,	11.21	
Pulley stands,	907.58	
Pump rod carriers,	183.11	
Pipeing boilers and engines,	1,279.35	
Moving Buildings,	579.07	
Blacksmith Shop, (new building.)	<u>571.32</u>	<u>9,545.01</u>

Total charged off during the year,		\$ 16,848.88
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*861849*  
*823039*

The dimensions of the new Engine and Boiler House are as follows,

Engine House is 41 feet by 83 feet.

Boiler House is 41 " " 46 "

Wing for pump crank projects 21 feet from side of engine house and is 24 feet wide. Walls of engine house are 16 feet high and of boiler house 26 feet. Foundations are all 10 feet high.

Some of the cost of this plant was sunk in last year and the balance is wholly wiped off this. Following is the total cost of the machinery plant.

Salisbury Machinery Plant.

Building.

Excavating for Building,	452.94	
Foundation and walls for same up to top of machinery foundations or floor level.	2,188.52	
Building complete above this floor level.	<u>3,759.22</u>	6,380.48
Foundations for machinery,	5,998.24	
Tearing out, moving machinery & setting up	2,842.10	
Pipeing engines to boilers.	<u>1,279.35</u>	<u>10,119.69</u>
		16,500.17

Improvement.

Heavier fly wheel for pumping engine.	1,330.94	
Pump condenser " " "	750.24	<u>2,081.18</u>
Total,		\$ 18,581.35

All the machinery and boilers being now in the one building it makes it cheaper to take care of and requires less steam.

The Coal Trestle has capacity of 1,200 tons and as we use about 170 tons a month there is ample capacity to carry us over the winter. It being enclosed we do not get any ice or snow mixed with the fuel.

As to the results of the 8 hour shift being worked at this mine, it would seem to be an improvement over the 10 hour shift. Conditions change from month to month, the ore being harder or softer by spells, but our figures for work of all underground men, shows as follows, in tons of ore mined per man per day.

Dec. 92 & Jan. & Feb. 93,	3 months,	2 - 10 hour shifts	4.43 tons
March to Sept., inclusive of 93.	7 "	2 - 8 " "	4.31 "
October & November	" " 2 "	1 - 8 " "	<u>4.20</u> "
Dec. 93 to Nov. inclusive of 94.	12 "	2 - 8 " "	<u>4.59</u> "

There is one thing that it does do, and that is, that it gives us the pick of the good men and will continue to do so until all the mines adopt the plan. The better the men, the more ore we can get up.

*low about high wages*

The first year of the trial as you will notice was broken into by the cave in.



Only track change at this mine has been the pulling out of all of the old tracks on north side of the mine and the change of track leading to the coal dock, with the two new tracks on the dock or trestle itself. All track alterations at this mine have been made by the C.&N. W.Ry., as they own them all.

*KWB Redfern*

Only improvement at this mine contemplated for 1895 is the building of small track from shaft house down into the timber yard, which will cost very little as distance is short and we have some old rail on hand

Everything at this mine is now very convenient for an economical production.

8  
No diamond drilling has been done at this mine during the year but the Lake Superior have put down some holes west of the line without finding any clean ore.

Very little change, from a year ago, shows on the surface, where cave in occurred, the ground has settled a few feet in a number of places and cracks have opened to some extent, the old tracks on the north side have been taken up. *MB Redfern Maps*

During the year have finished the new engine house and moved all of the machinery into it. During the transfer of the pumping machinery the water was kept out by means of a bailer worked in the cage compartment of the shaft, from one of the ten foot drums. Have moved the Office, Shops and Dry over to location south east of Shaft. The old Blacksmith Shop would not stand moving and was too small, so had to build new Shop. Have built a new and substantial coal trestle near the new engine house and covered it in from the weather. Have fenced in a yard enclosing the buildings that have been moved over, so that they all open out into it, and have built a covered shed along the south side, for the storage of heavy supplies and machinery. The north side is used for mine timber.

#### Foster Mine.

This mine was shut down on July 1st 1893 and is practically abandoned. Shipped during the year, 15,701 tons, which cleaned up the Stock File. Amount of ore in sight when mine closed down was 50,000 tons. The mine is 365 feet deep and the water has now raised up so it can be seen in the open pit.

*No record of taking away the mounds*  
-:13:-

*Stock file here was 60,000 tons short from  
estimated and on hand. Nov 30/93!!  
This shows necessity of checking estimates by measuring.*

### Foster Mine.

Estimate of ore in sight is based on amount of ground opened up and by comparison of previous years outputs.

Everything here except the boilers, engine, drum and one pump has been brought in to the Cliffs Shaft Mine and these will be, during the winter. Nothing will then remain but the buildings and they are of very little value there.

### Pioneer Arctic Lands.

Mr. Mc Clear, the agent for these lands, informs us that there have been no options granted during the year and that no work at all has been done.

### Explorations.

We have been dissappointed in our exploration at Section 6 , and do not think it is worth while to throw any more money away at this place. The surface indications were good, had long jasper bluff extending west from the old Excelsior Mine and this, no doubt, was extension of the north side of the Ishpeming basin, in which occurs the Cleveland No. 3 Pit, the New York Mine and the Cliffs Shaft Mine. North of this bluff of jasper near where we drilled, what is probably the Teal Lake Range, comes through. The two ranges meeting at about this place. On this north side some exploration for hematite was made without finding large enough deposit to work. Our work was done south of the bluff, in the hard ore formation, and the holes prove up a shallow ore basin underlaid with diorite altogather too close by. If we had known the diorite was so close to surface would not have wanted to do work at this place.

### Explorations.

9

On Section 6 , west of the old Excelsior Mine and of the Cliffs Shaft Mine, we have put down three holes, at points designated on map as E<sub>2</sub> , F<sub>2</sub> & H<sub>2</sub> . The last hole has been finished in the month of December. They show up a shallow hard ore basin but no ore of merchant-able quality or quantity. X

On Section 21 , east of the Winthrop and Mitchell Mines, we have been boring a hole, at point marked G<sub>2</sub> on map, and so far have cut little but jasper, a seam of ore four feet thick is all that has been found, Intend moving the drill to a place further south, in the same valley, as soon as this hole is finished. We think the South Winthrop Ore must go through here somewhere and hope for better luck in the second hole to be put down.

### Options.

Two Options have been granted during the year and one renewed. Option No. 16 , taken out some time ago, the parties wanted to do some more work on and reissued it to them, they are exploring in a hematite formation down towards the Volunteer Mine and have a little ore and intend to sink their shaft deeper. So far the showing does not amount to anything.

Option No. 21 , for Marl, calls for a royalty of 25 cents per ton and the parties are trying to find some use to which it can be put, they have been putting some of it up in small tin boxes and selling it for polishing powder but so far it has not amounted to anything and is doubtful if a use can be found for it that will pay for getting it out.

Option No. 22 , for Gold and Silver, is at a royalty of 5 % of gross value, the quartz showing on the surface did not hold down and the parties have given it up. -:152-

15

10

Farms,

Only one farm has been leased during the year and in the S.E.1/4 of Sec. 4 47 - 27., 35 acres, and at a rental of One Dollar per year and the taxes. Lease is to Simeon Ball.

These farm leases are now all turned over to the Land Department.

SUMMARY OF ALL THE MINES OF THE IRON CLIFFS CO.

Produced during the year,	150,254 tons.
Shipped " " "	187,392 "
In stock December 1st 1894.	204,087 "
In sight underground,	755,000 "
Men now employed,	170.

SALISBURY PUMPING.- There is no question but that the pump at Salisbury Mine, with new fly wheel, new condenser, and better arrangement generally, is saving us about 20 % in the cost of operation. The figures show it although cost for the year is a little higher than the previous year but it is due to the bailer that operated while the pump

16

NEW TRACKS.- Only track changes are on lands of the Iron Cliffs at the Cliffs Shaft and Salisbury Mines and we do not have the maps of these tracks. We have made copy of this portion of your letter and with memoranda as to the track changes have mailed the same to Mr. Redfern as you request.

SUMMARY OF LABOR.- Includes everybody except, Superintendent, Office force, Surveyor & Master Mechanic.

16

4 W.G.M.-

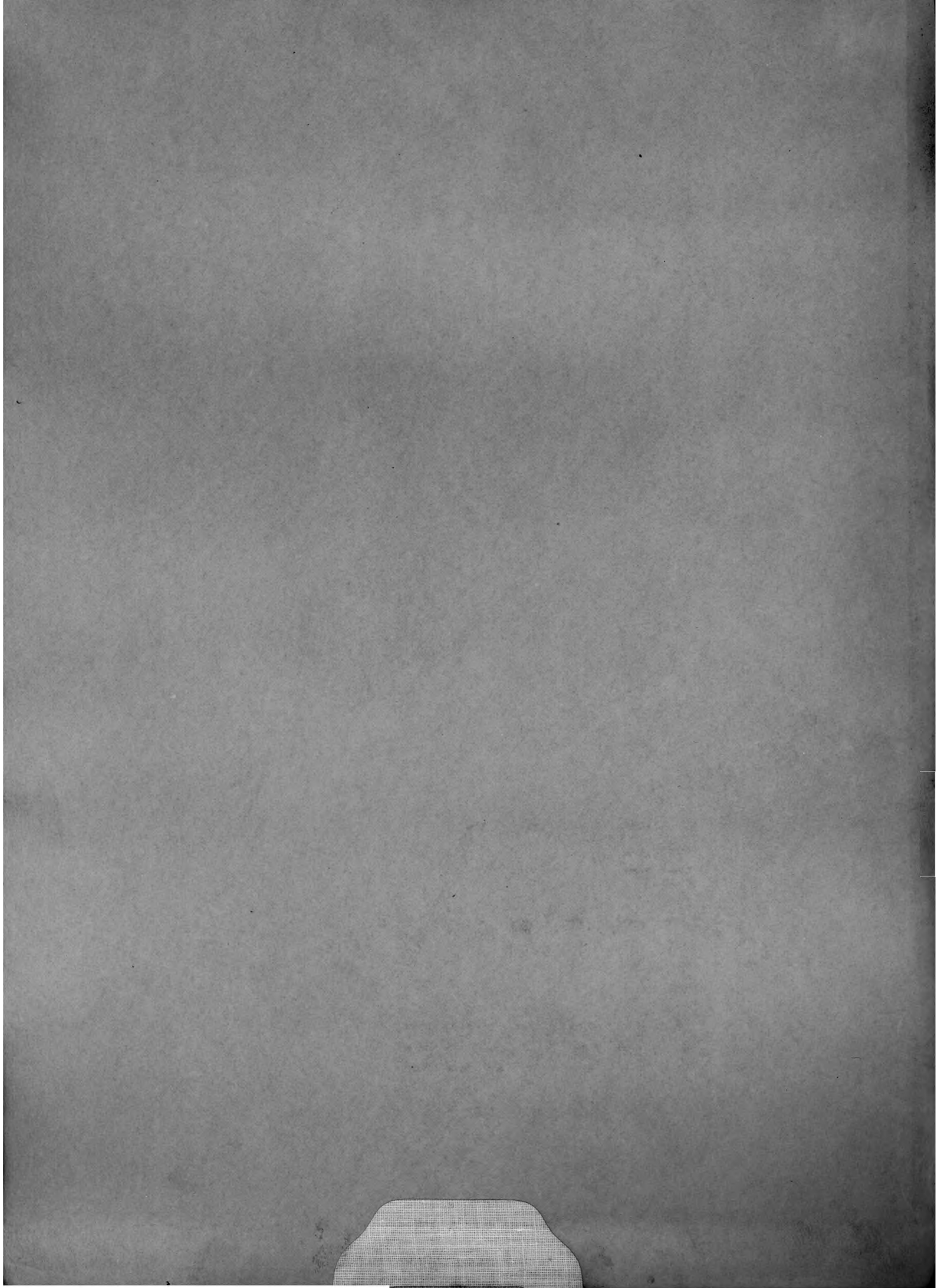
Feb 1 1895.

machinery was being moved over to the new engine house and to the extra expense incidental to a change of this kind. One thing that saves quite a little is the thorough manner in which the pipes and boilers are covered with the Manville plastic covering. Before the steam pipe led from boiler house across an open space to the pumping engine house. Now everything is under the one roof, and in such position as to be very cheap to operate.

Yours truly,

*J. Miles*

Supt.



*Iron Cliffs Company*  
*Index, Miscellaneous Data, 1894*

- 1 Salaries & Perquisites, P. F. No. 1 Dept.
- 2 Stmt of Genl Expense, Timber Rands, Ground Rents, etc
- 3 Repairs to Dwellings not Rented
- 4 Profit & Loss on Inventory
- 5 Operating Crusher Plant
- 6 Report to Stockholders
- 7 List of Stockholders
- 8 Summary of Labor Statements
- 9 Accident Report
- 10 Supplementary Accident Report
- 11 Weekly Mine Report
- 12 Income Tax Statement
- 13 Trial Balance Before Inventory

*Iron cliff Co*  
*Misc Data 1894*



Iron Cliffs Company. P. Fur. Dept.

Statement of Salaries paid & Cost of perquisites allowed Employees for  
Year ending November 30/94

	A. Farrell Agt	Saml Redfern Mgr	John O'Connor, Clerk
Salary	250000	180000	5/11/100 - 30250
Rent	Free	owns house	000
Repairs etc on house	22700	000	000
Horse & Carriage	Free	7/10	000
Maintaining same	000	000	000
Chorman	000	000	000
Nights	000	000	000
Fuel	000	000	000
Water	000	000	000
Ice	1000	000	000

Statements of following for 1893-94

<u>General Expense</u>			
Stationery & Printing		5455	
Postage		4325	
Typewriting		1890	
Expense		950	
Rivory		400	
Lark		995	
Post Office box rent		400	
Janitor		1600	
Telegrams		4392	
Water & Ice		1600	
Traveling Expenses		59755	
Telephone Rental		6000	
Subscription Trade papers		1350	
Fuel		2195	
Sundries		5049	94334
Less By Rebate on Mileage book		2000	
" B.W. Wright Horse bills		5587	7587
			86747
<u>Timber Cauds</u>			
By Traveling expenses		3670	
" Prop. Salaries		82774	
" Taxes		261176	347617
<u>Ground Rents</u>			
By Total receipts		159111	
To Prop Salaries	63407		
NB " Taxes on abandoned lease	3375		
" Refund of rent overpaid	1128		
" Printing	525	68435	
			90676
<u>House Rent</u>			
By total receipts		144767	
Repairs	21019		
Taxes	36233	57252	87515

Roads 7-

Traveling Expenses

3190

Taxes

587037

Printing

4975

Survey (by J. E. Jopling)

16347

Corners Posts & Monuments

6038

State Road Office

1440

619037

Less By Taxes rec'd from Tenants

9004

" Maple Ridge Sch Dist; transfer of land

500

" 1/2 expense loc. & corners from R. S. & Co

7407

16961

602076

Genl Expense  
+ Land Accts  
Furnace

2

Iron. Cliffs Co.

Statement of Repairs to dwellings not Rented for year 1894.

Capt Buzzo's Residence	
Making Coal Box	610
Repairs to Barn.	349
	<hr/>
	959

Iron Cliffs Co

Reps of dwellings not rented

year ending Nov 30 1894.

Iron Cliffs Co. Statement Analyzing Profit and Loss on Inventory accounts November 30<sup>th</sup> 1894

Cliffs Shaft	Initial Balance	Inventory	Increase	Decrease	
General Supplies	360573	361320	747		Profit on sales
Iron & Steel	170430	188421	17991		Had sell at auction price to our own mine In 1893, iron all sizes inventoried @ 1.50 sold to Cleveland & Sales during year @ standard price
Nails & Bolts	15862	21843	5981		Profit on sales
Tools	69853	69538		315	Tools used and not charged out during summer
Pipe & Fittings	112804	109674		3130	Loss in adjustment of discounts
Oil, Grease & Candles	4110			4110	Neglect of crusher man in not charging candles & grease 7.13 1893 machy boiler casting inventoried @ 2.00 # 1894 - 3¢ to adjust with C.S.M. Co. also 17 chucks @ 12.00 = 204.00 not down last year.
Machy Supplies	450096	489711	39615		
Building Mat.	7269	5507		1762	Dep on Hard wood lumber and doors from Fitch and teaming expense in delivering (was poor)
Explosives					None handled during year
Mine Timber	11335	22665	11330		R.R. Tim 38.10 not down 1893 - cedar lagging 26.25 not down 1893 - Profit on sales & adjustment of Price
Fuel	120226	120226			
Burn	4448	6262	1814		Horse nails and fellows not down 93. 23.50 Loss on Hammer 11.00 7.13
Total Supplies	1327006	1395167	77478	9317	
Difference			68161		
Diamond Drills	76372	72199		4173	10% dep on 1893 - 52.17 profit on sale of boiler 42.00 decrease 40.17 inventoried as in 1893
Power Drills	262237	262237			
Cars & Derricks	57558	51511		6047	10% dep on 1893 - 57.55 dep in price Skipper bucket 2.92
Portable Machinery	51276	67761	16485		profit on Hoist sold Sales. 123.00 profit on adjusting cost. 50.00 Dep of Cl. Shaft 8.19
Burn	41054	41389	335		Dep 84.88 Purchased 57.77 Loss profit on five horses sold net profit 3.35
Total Equip	488497	495097	16820	10220	
Scrap		29700			Estimate of amount on hand.
<b>Grand Total</b>	<b>1815503</b>	<b>1919964</b>	<b>94298</b>	<b>19537</b>	
<b>Salisbury</b>					
General Supplies	31608	27367		4241	Due to Supply Clerk not charging off expense of teaming 7.13 In adjustment of Price
Iron & Steel	28631	29190	559		
Nails & Bolts	4877	4296		581	
Tools	9362	7546		1816	adjusting prices on wheelbarrows and pole picks 9.00 3.75
Pipe & Fittings	47580	46885		695	Loss in adjustment of discounts, less slight profit or by barrels returned 5.80 profit .72
Oil, Grease & Candles	4114	4771	657		increase in price of Gate bars 24.00 balance profit
Machy Supplies	36899	41634	4735		profit on sales
Building Material	20400	23834	3434		
Explosives	10464	10651	187		
Mine Timber	128710	125675		3035	Loss
Fuel	365300	374180	8880		Profit - coal all cleaned up over 1.25. Last year this acct was estimate of amt on hand should be
Burn	61571	59825		1746	Hubs, spokes & fellows 14.73 omitted in copying inventory not noticed in time to add on
Total Supplies	749516	755854	18452	12114	
Difference			6338		
Burn	51384	41977		9407	Depn Horses and C. U. & Blights and adjusting price on horses
Portable Machy	50363	25248		25115	Depreciation 1893 - 77.50 for 1894 - 81.25 plus addition to regular 10%
Power Drills	82500	66825		15675	Dep. 1893 50% for 1894 - 55% in addition to the regular 10%
Cars, Skips & Derricks	56858	40075		16783	Dep 10% 148.42 Cars smashed up 18.90
Total Equip	241105	174125		66980	
Scrap		5214			Estimate of amount on hand.
<b>Grand Total</b>	<b>990621</b>	<b>935193</b>	<b>18452</b>	<b>79094</b>	

*Iron Cliffs Co  
Analysis of Inventory  
accounts Aug 30 1894.*



# Iron Cliff Co. Report of Operating Crushers from June 22<sup>d</sup> 94 to Nov 30<sup>d</sup> 1894.

Statement of Costs to operate Crushers as reported during year for 35476 tons.

Labor	
Foreman	244.54
Engineers	346.74
Feeders	405.35
Rockers and Dumpmen	560.82
Oilers	186.78
Spout men	192.85
Handling Cars before track was raised (1 1/2 Mo.)	95.42
Sampling & Crusting on for analysis.	178.82
Fireman - (Crusher proportion)	228.31
<b>Total at Crusher</b>	<b>2439.63</b>
Fireman (Pumping Proportion)	72.10
<b>Total Labor</b>	<b>2511.73</b>

Supplies	
General	41.61
Iron & Steel	3.81
Nails & Bolts	6.26
Tools	12.00
Pipe & Fittings	7.9
Oil Grease & Cds. (Lube oil mounting 11.10)	270.41
Machinery Supplies	5.26
Building Materials	3.19
Fuel	1387.63
Shop Labor & Seaming	24.80
<b>Total at Crusher</b>	<b>1705.76</b>
Fuel for Pumping	448.42
<b>Total Supplies</b>	<b>2154.18</b>
<b>Total Labor &amp; Supplies</b>	<b>4665.91</b>

Summary of Costs	
Crusting Labor	2439.63
Supplies	1705.76
<b>Total</b>	<b>4145.39</b>
Pumping Labor	72.10
Supplies	448.42
<b>Total</b>	<b>520.52</b>
Cost of wearing parts	690.80
" " broken parts (not paid for)	708.65
<b>Total</b>	<b>1401.45</b>
<b>Total Days (10 hrs) worked 181 days for day 196</b>	
" " Crusting 88 1/2 hrs for day 400	
" " Oil Repair 92 1/2	

Detail of Labor and Supplies Operating 2 Crushers Single Shift			
Occupation	Labor		Supplies
	To Men	Rate Amt	
Foreman	1	1.75	5 1/2 tons Coal 3.15
Engineer - Crusher	1	1.25	2 Gal Crs Oil 32
" Conveyor	1	1.25	2 " Eng " 15
Feeders	3	1.50	1" Caudles 07
Dumpmen	2	1.25	1" Stack 08
Rockers men	2	2.50	<b>Total Crusher</b> 184.1
Spout men (pier)	1	1.50	<b>Pumping</b>
Oilers	1	1.25	1 1/4 tons Coal 3.15
Sampling on	1	1.25	1/4 Gal Crs Oil 32
<b>Total</b>	13	13.6	1" Packing 25
			<b>Total Pumping</b> 42.7
			<b>Total</b> 226.8
Fireman	2	1.25	<b>Total Labor Opn Crusher</b> 17.5
Tramming Cars	2	1.00	" " Lower exp 3.00
<b>Total</b>	2 1/2	1.20	" Supplies Opn Crusher 18.41
			" " Pumping 42.7
			<b>Grand Total</b> 43.43

It is above is record of Crusting Oct. 9<sup>th</sup> 94; 28 Cars 534 tons. actual with Crusting on 8 hours, changing toggles 2 hrs.  
 Labor Cost per ton .0388  
 Supplies " " " .0425 **Total Cost per ton .0813**  
 On above basis Crusting for six months 150 days 8000 tons @ .0813 per ton  
 sinking off 10% of Cost of plant or \$128.60 would make **.039**  
**Total Cost per ton .1203**

Cost of Plant to Dec. 1 <sup>st</sup> 1894.	
Digging pit and piling (encountered quicksand)	7981.88
Pumping Expense while digging pit and putting in Macky	1000.73
Crusher Building	2052.81
Crusher and Conveyor pockets	281.85
Engine Foundation	953.87
Cost of Engine not charged to plant - Estimate \$400.00	0.00
Setting up old Barrum Engine	263.73
Cost of pulleys & belts hanging same and setting Engine	2999.40
Cost of Dodge Crusher (2) as per contract	2650.00
" " Halley " (1) "	2585.25
" " Hunt Hoistmen Conveyor fab. & setting	5450.00
Setting Crusher and Conveyor	1530.00
Repairs and Alterations	2974.58
Equipment Fire hose	96.00
Grading Tract	516.36
<b>Total</b>	<b>31285.96</b>

Iron Cliffs Co.

Consolidated Report

Year Ending Nov 30 194.

# Iron Cliffs Company.

CLEVELAND, O., Feb. 18, 1895.

## ANNUAL REPORT OF THE PRESIDENT TO THE STOCKHOLDERS FOR THE YEAR ENDING NOV. 30th, 1894.

### PRODUCTION OF ORE AND IRON.

	CLIFFS SHAFT.	SALISBURY.	FOSTER.	FITCH.	TOTAL.	PIG IRON.
1893, Tons.	112,700	132,000	13,400	4,450	262,550	5,195
1894, Tons.		150,254			150,254	
Increase . . . . .		18,254				
Decrease . . . . .	112,700		13,400	4,450	112,296	5,195

### ORE AND IRON ON HAND UNSOLD.

1893, Tons.	257,450	17,214	21,792	12,811	309,267	2,422
1894, Tons.	202,530	38,227		12,811	253,568	1,161
Increase . . . . .		21,013				
Decrease . . . . .	54,920		21,792		55,699	1,261

The depression referred to in report for 1893 not only continued but became more pronounced in 1894.

All of our mines are still idle except the Salisbury.

**Salisbury Mine.**—The cave of ground, starting September 23, 1893, caused a total expense of \$22,292.11. Some surface improvements were also made at the same time, and during 1894 the total amount spent and charged off to "operating" amounted to \$17,016.33.

The future outlook of this mine is about the same as noted in last report.

**Explorations** have been in progress at two different places during the year. One place was finished and abandoned, nothing good having been found. Work at the other place is still in progress with no good results as yet.

**The Crusher Plant** handled 35,426 tons of ore during the year. It does not yet work economically or satisfactorily, and is thus far a disappointment. The crushers first furnished were too weak and had to be replaced by a stronger one, hence the additional cost of this plant. It is hoped that better results will be obtained this year.

**The Pioneer Furnaces** have been idle throughout the year. They are in a very dilapidated and antiquated condition.

Respectfully submitted,

WM. G. MATHER,  
*President.*

CLEVELAND, O.,  
February 15, 1895.

**SUMMARY OF PROFITS AND LOSSES IN 1894.**

Loss operating Furnace Department,	-	-	-	\$ 6,751.21
"    "    Land    "	-	-	-	7,849.27
"    "    Cliffs Shaft Mine,	-	-	-	36,319.37
"    "    Foster Mine,	-	-	-	8,262.81
"    "    Fitch    "	-	-	-	2,198.75
"    Old Mine Barnum ore,	-	-	-	88.25
"    on miscellaneous items,	-	-	-	31,812.45
Cost of explorations,	-	-	-	<u>2,892.63</u>
				\$ 96,174.74
Profit operating Salisbury Mine,	-	-	-	<u>46,209.78</u>
Total net operating Loss,	-	-	-	49,964.96
Dividends paid,	-	-	-	<u>100,000.00</u>
Decrease in Surplus Account,	-	-	-	<u>\$149,964.96</u>

# Iron Cliffs Company.

GENERAL BALANCE SHEET, NOVEMBER 30, 1894.

ASSETS.	1893.	1894.	INCREASE.	DECREASE.
Cash on hand at Cleveland,	180,517 57	248,315 70	67,798 13	
Cash on hand at Mines,	507 99	264 28		243 71
Cash on hand at Furnace,	2,404 96	541 20		1,863 76
Preferred stock, Ill. Steel Co.	56,760 00	56,760 00		
Debenture bonds, Ill. Steel Co.	23,500 00	23,500 00		
Real estate,	723,746 77	717,670 95		6,075 82
Bills receivable,	97,415 63	70,201 99		27,213 64
Accounts receivable,	163,236 27	72,362 88		90,873 39
Ore on hand at L. E. ports,	319,982 60	343,793 65	23,811 05	
Ore on hand at Mines,	344,570 57	269,173 14		75 397 43
Pig Iron on hand at L.E. ports	58,562 05	19,659 77		38,902 28
Pig Iron on hand at Furnace,	375 00			375 00
Mine Inventory,	36,522 79	32,101 57		4,421 22
Furnace Inventory,	18,637 71	15,481 09		3,156 62
Kilns,	6,866 14	6,866 14		
Hospital at Ishpeming,	572 00	572 00		
Crusher plant at C. S. Mine,	20,675 23	31,285 96	10,610 73	
	2,054,853 28	1,908,550 32		146,302 96
<b>LIABILITIES.</b>				
Capital stock,	1,000,000 00	1,000,000 00		
Benefit fund,	3,372 06	2,532 20		839 86
Brass checks outstanding,	257 00	227 75		29 25
Relining and Renewal acc't,	1,222 09	1,222 09		
Unclaimed wages,	85 83	127 81	41 98	
Pay rolls unpaid,	6,040 95	8,727 67	2,686 72	
Accounts payable,	37,381 50	39,183 91	1,802 41	
Surplus account,	1,006,493 85	856,528 89		149,964 96
	2,054,853 28	1,908,550 32		146,302 96

S T O C K H O L D E R S

of the

I R O N    C L I F F S    C O M P A N Y

\*\*\*\*\*

Bigelow, John	New York, N. Y.,	2 shares.
Banker, Ellen J.	Irvington, N. Y.,	100 "
Dall, Caroline H.	Washington, D. C.,	40 "
Green, Andrew H.	New York, N. Y.,	2 "
"    Wm. O.	Chicago, Ill.,	1 "
Healey, Marianne W.	Boston, Mass.,	53 "
"    Francis W.	"    "	54 "
"    Emily W.	"    "	53 "
Holbrook, Levy	New York, N. Y.,	200 "
Hoyt, J. H.	Cleveland, Ohio,	1 "
Handy, T. P.	"    "	1 "
MacGillicuddy, Gertrude L.	Montmor, N. Y.,	10 "
Miller, George M.	"    "    "	2 "
"    Bertha S.	"    "    "	2 "
Mather, Wm. G.	Cleveland, Ohio,	1 "
"    Samuel	"    "	1 "
Miller, Edmund H.	New York, N. Y.,	1 "
Ogden, Wm. B., Estate of	New York, N. Y.,	1000 "
Perkins, E. R.	Cleveland, Ohio,	1 "

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Randolph, L. V. F.	New York, N. Y.,	1 share	
Smith, George W.	New York, N. Y.,	2	"
Townsend, Amos	Cleveland, Ohio,	1	"
The Tilden Trust,	New York, N. Y.,	3892	"
Wade, J. H.	New York, N. Y.,	14578	"
White, Peter	Marquette, Mich.	1	"
		<hr/>	
		20,000	"



*Iron Cliffs Co*  
*List of Stock-holders*  
*Nov 30<sup>th</sup> 1894.*

White, Peter	Marquette, Mich.	1	"
Wedge, J. H.	New York, N. Y.	14218	"
The Tilden Trust,	New York, N. Y.	3335	"
Townsend, Amos	Cleveland, Ohio	1	"
Smith, George W.	New York, N. Y.	5	"
Randolph, J. A. E.	New York, N. Y.	1 share	"

**50000**  
 "

# Iron Cliffs Co. Summary of Labor Statement for year ending Nov 30 - 1894

## Mining Labor

	Cliffs Shaft						Salisbury						Toster								
	No men	No Days	Rate	Amt	Tons for makin per day	Cost per ton	Product	No men	No Days	Rate	Amt	Tons for makin per day	Cost per ton	Product	No men	No Days	Rate	Amt	Tons for makin per day	Cost per ton	Product
Dec. 93							69	1665	1.61	2683	28	3.24	.497	5400							
Jan. 94							70	1796 <sup>3</sup> / <sub>4</sub>	1.63	2924	04	3.17	.513	5700							
Feb.							69	1652	1.66	2742	98	3.63	.457	6000							
Mar.							117	3062 <sup>3</sup> / <sub>4</sub>	1.49	4561	58	4.08	.365	12500							
April							128	3092 <sup>3</sup> / <sub>4</sub>	1.57	4851	05	4.30	.365	13300							
May							130	3274 <sup>3</sup> / <sub>4</sub>	1.62	5320	75	4.38	.370	14363							
June							121	3114	1.62	5055	15	4.23	.384	13162							
July							112	2678 <sup>1</sup> / <sub>2</sub>	1.55	4155	18	4.37	.354	11724							
Augt							125	3250 <sup>1</sup> / <sub>2</sub>	1.68	5455	07	5.03	.333	16368							
Sept.							125	3040	1.77	5384	42	5.18	.341	15773							
Oct.							119	3141 <sup>1</sup> / <sub>4</sub>	1.88	5904	60	5.34	.352	16769							
Nov.							117	2906 <sup>3</sup> / <sub>4</sub>	1.89	5508	15	5.12	.370	14875							
	Tonn Excess for year													4320							
Total							1302	32675	1.66	5454	625	4.59	.363	150254							

## Total Labor.

Dec. 93	1	31	1.50	4650							123	2978 <sup>1</sup> / <sub>2</sub>	1.55	4612	40	1.81	.85	5400				
Jan. 94	1	31	1.50	4650							130	3345 <sup>1</sup> / <sub>4</sub>	1.55	5170	88	1.70	.907	5700				
Feb.	1	28	1.50	4200							138	3300 <sup>1</sup> / <sub>4</sub>	1.50	4980	43	1.81	.830	6000				
Mar.	1	31	1.50	4650							193	5039	1.45	7306	69	2.48	.584	12500				
April	2	54 <sup>1</sup> / <sub>2</sub>	1.64	8904							176	4267 <sup>3</sup> / <sub>4</sub>	1.53	6536	87	3.11	.491	13300	2	41 <sup>1</sup> / <sub>4</sub>	1.01	4194
May	14	380	1.34	50842							178	4480 <sup>1</sup> / <sub>2</sub>	1.56	6985	74	3.20	.486	14363	5	118 <sup>1</sup> / <sub>2</sub>	1.16	13707
June	28	694	1.29	89365							161	4161 <sup>1</sup> / <sub>2</sub>	1.56	6475	89	3.16	.490	13162	6	143 <sup>1</sup> / <sub>4</sub>	1.31	17251
July	51	1267 <sup>1</sup> / <sub>2</sub>	1.18	150444							157	3767 <sup>1</sup> / <sub>4</sub>	1.49	5622	60	3.11	.480	11724	9	225 <sup>1</sup> / <sub>2</sub>	1.19	26965
Augt.	20	496	1.36	67638							174	4518 <sup>1</sup> / <sub>4</sub>	1.57	7107	49	3.62	.435	16368	8	181 <sup>1</sup> / <sub>4</sub>	1.35	24378
Sept.	22	522 <sup>1</sup> / <sub>2</sub>	1.33	69348							165	4054	1.66	6745	54	3.90	.428	15773	5 <sup>1</sup> / <sub>2</sub>	132 <sup>1</sup> / <sub>4</sub>	1.24	16351
Oct	26	690	1.34	92258							166	4424 <sup>1</sup> / <sub>4</sub>	1.71	7600	70	3.79	.453	16769	5 <sup>1</sup> / <sub>2</sub>	124	1.19	14688
Nov.	31	758 <sup>1</sup> / <sub>4</sub>	1.33	101229							154	3834	1.77	6775	29	3.88	.455	14875	5	1.42		712
	Tonn Excess for year													4320								
Total	198	4983 <sup>1</sup> / <sub>2</sub>	1.30	648168							1915	48170	1.57	75920	52	3.12	.505	150254	41	971	1.22	118246

Iron Cliffs Co

Summary of Labor Statement

for year Ending Nov 30 1894.

## Iron Cliffs Co.

### Report of Accidents at the different Mines Underground & Surface for the year ending November 30 - 1894

Minor Accidents	Cliffs Shaft									Salisbury									Total									Percent of Each Class of Injuries
	Underground			Surface			Total			Underground			Surface			Total			Underground			Surface			Total			
	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	
Fingers				1	9	750	1	9	750	5	212	15332	2	19	1416	7	231	16748	5	212	15332	3	28	2166	8	240	17498	.210
Hands										1	10	666				1	10	666	1	10	666				1	10	666	.026
Arms										1	5	416	1	25	2082	2	30	2498	1	5	416	1	25	2082	2	30	2498	.053
Feet				2	37	3082	2	37	3082	2	62	4348	2	35	2916	4	97	7264	2	62	4348	4	72	5998	6	134	10346	.158
Legs										4	526	42566				4	526	42566	4	526	42566				4	526	42566	.105
Body										8	286	20582	5	373	31082	13	659	51664	8	286	20582	5	373	31082	13	659	51664	.342
Eyes																												
Head				1	55	4582	1	55	4582	2	19	1582				2	19	1582	2	19	1582	1	55	4582	3	74	6164	.080
<b>Total Minor Accidents</b>				4	101	8414	4	101	8414	23	120	85492	10	452	37496	33	1572	122988	23	120	85492	14	553	45910	37	1673	131402	.974
<b>Total Accidents</b>				1		50000	1		50000																1		50000	.026
Total amount paid for Minor & Total accidents which occurred during Year 1894																								38	1673	181402	1.000	
Total amount paid for accidents which occurred in 1893 for which payments were made in 1894																								2	550	47184		
Total amount paid out during the year.																								40	2223	228586		

Recapitulation from Accident Report for the Year Ending November 30 - 1894	Cliffs Shaft Mine	Salisbury Mine
Total Number Days worked during Year	4983 1/2	48170
Total Number Men Employed during Year	198	1915
Average Number Men per Month	28	160
Total Number Accidents during year	5	33
Per cent of Accidents to Number Men Employed	.025	.017
Number Days paid men from Benefit Funds	401	1822
Average per day	.83 1/3	.782
Total Amount Paid during year.	\$847.64	\$1438.22

Statement showing amounts paid from Benefit & Suspense Funds, Number of Accidents & time lost each year since organizing the Benefit system. Also Credits to Benefit and Suspense accounts November 30 - 1894	Cliffs Shaft			Salisbury			Total		
	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid	base	Rate Per Foot	Amt Paid
Jan 1 1891 to Nov 30 1892 - 2 years	51	1827	1384 52	44	1563	1167 54	95	3390	2552 06
Dec 1 1892 to Nov 30 1893 - 1 year	29	763	617 56	22	449	2825 52	51	1212	3443 08
Dec 1 1893 to Nov 30 1894 - 1 year	6	401	847 64	34	1822	1438 22	40	2223	2285 86
	86	2991	2849 72	100	3834	5431 28	186	6825	8281 00
Credit to Benefit Fund			1266 10			000			1266 10
" " Suspense			1266 10			000			1266 10
Note: "Benefit Fund" Amount Contributed by Employers.									
"Suspense Fund" Amount Contributed by Iron Cliffs Co.									

**Iron Cliffs Co.**

*Accident Report*

*Year ending November 30<sup>th</sup> 1894*

9

Supplementary Accident Report for Year ending Nov 30<sup>th</sup> 1894.

Statement of amount Collected from Employers and paid to Doctors for Hospital Acc.		No. Days worked during year		C. S. M. Co.	J. C. Co.
	<u>Amount</u>				
Cleveland Iron Mining Co	4261.00	No. Days		79014	995 <sup>th</sup> no accident
Iron Cliffs Co	2316.00	" " " " " by accident		182	107% during year
		Labels Days		79196	100% which cannot
		Low for man per day for year 2.20		64668	low any low of
		" " " " " lost by accident 2.20		446	time
<u>Total</u>	6577.00	<u>Total Low</u>		65114	

Record of Shortest and Longest period for which benefits money has been paid.

C. S. M. Co. - Last Shortest - J. J. Raiment, arm bruised, injured Aug 20/94 discharged Aug 28/94 Idl'd 7 d. Paid 2 days @ 66 <sup>2</sup> / <sub>3</sub>	1.32
do. " Longest - Jno Collins, Shoulder blade and small bow in ankle broken by falling 60 feet down mine injured April 4/93 discharged April 6/94. Paid for 11 months 28 days @ 83 <sup>1</sup> / <sub>3</sub>	298.32
J. C. Co. - Short Shortest - H. J. Dory, head and shoulders bruised by staging falling away, injured June 14/94 discharged June 23/94 Idl'd 9 days Paid 4 days @ 83 <sup>1</sup> / <sub>3</sub>	3.32
do. - Short Longest - Jas Byron, acct'd injured by jumping from ladder which barring ground and a piece of ore which fell from back of shop striking him on the ankle as he fell. Injured April 5/93 discharged Oct 1 <sup>st</sup> 94. Paid for 17 months 21 days @ 83 <sup>1</sup> / <sub>3</sub>	442.50

Low - No payment is made for the 1<sup>st</sup> 5 days in any case.

Average time lost by each accident: - C. S. M. Co. 20 days, J. C. Co. 14 days.

The only fatal accident by which time was lost was at the Hematite Mine.

Accident occurred July 2<sup>9</sup> 94 at 11:30 a.m. Rope moved from drums and went to bottom of shaft showing pump man who was riding down.

Mine was idle 2 day shifts and 2 night shifts on 2 dbl shifts, loss in products of 146 tons Ore.

Record of accident for which full amount and portions of full amount of benefits were paid:	Am paid while under treatment	Am of Indemnity Paid	Total Amount Paid	Remarks
H <sup>rd</sup> Harris, 1st Ore injured by premature explosion in powder tunnel Mch 12/91	43749	50000	93749	Last both eyes Married
A. Aquilon Stem " " " blasts in mine Mch 7/92	30000	50000	80000	Do " "
Peter Berg Moro " piece of ore while sliding on st. pile Oct 3/91	9467	16666	26133	Last night eye " "
Adam Johnson Moro " " " " underground July 26/92	1800	16666	18466	Do " " Married
Jas Shaff Lark " piece of Sledge breaking off Aug 27/92	8470	16666	25136	Last Left eye Married
Aug Anderson Doctor " premature break of block hole Oct 28/93	17500	75000	42500	Injured right of both eyes (paid by J. C. Co.)
	<u>110986</u>	<u>174998</u>	<u>285984</u>	

Statement of fuel etc account of accidents

C. S. M. Co. Testimony inquis case of Jerry Sullivan demand Artificial Eye for Peter Berg	1000
	700
J. C. Co. Testimony inquis case of Peter Bryan demand (93)	1000
Artificial Eye for And Bergman (93)	800
Dbl Travel for Anton Sever	550
<u>Total</u>	4050

"Total number men employed during year"  
This is the total of the number of men employed each month for the year

Supplementary  
Accident Reports  
Year Ending Nov. 30 '94.





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IRON CLIFFS COMPANY.

ORE MINED AND SHIPPED

For Week ending *Nov 30* 189*4*

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(Form No. 366.)

UNITED STATES INTERNAL REVENUE.  
INCOME TAX OF CORPORATIONS, ETC., 1894.

ACT OF AUGUST 28, 1894.

[EXTRACTS.]

AN ACT entitled "An Act to reduce taxation, to provide revenue for the Government, and for other purposes."

*Be it enacted, etc.* \* \* \* SEC. 27. That from and after the first day of January, eighteen hundred and ninety-five, and until the first day of January, nineteen hundred, there shall be assessed, levied, collected, and paid annually upon the gains, profits, and income received in the preceding calendar year by every citizen of the United States, whether residing at home or abroad, and every person residing therein, whether said gains, profits, or income be derived from any kind of property, rents, interest, dividends, or salaries, or from any profession, trade, employment, or vocation carried on in the United States or elsewhere, or from any other source whatever, a tax of two per centum on the amount so derived over and above four thousand dollars; and a like tax shall be levied, collected, and paid annually upon the gains, profits, and income from all property owned and of every business, trade, or profession carried on in the United States by persons residing without the United States. And the tax herein provided for shall be assessed by the Commissioner of Internal Revenue and collected, and paid upon the gains, profits, and income for the year ending the thirty-first day of December next preceding the time for levying, collecting, and paying said tax.

SEC. 28. \* \* \* *Provided, also,* That in computing the income of any person, corporation, company, or association there shall not be included the amount received from any corporation, company, or association as dividends upon the stock of such corporation, company, or association if the tax of two per centum has been paid upon its net profits by said corporation, company, or association as required by this Act.

SEC. 30. The taxes on incomes herein imposed shall be due and payable on or before the first day of July in each year; and to any sum or sums annually due and unpaid after the first day of July as aforesaid, and for ten days after notice and demand thereof by the collector, there shall be levied, in addition thereto, the sum of five per centum on the amount of taxes unpaid, and interest at the rate of one per centum per month upon said tax from the time the same becomes due, as a penalty, except from the estates of deceased, insane, or insolvent persons.

SEC. 32. That there shall be assessed, levied, and collected, except as herein otherwise provided, a tax of two per centum annually on the net profits or income above actual operating and business expenses, including expenses for materials purchased for manufacture or bought for resale, losses, and interest on bonded and other indebtedness of all banks, banking institutions, trust companies, saving institutions, fire, marine, life, and other insurance companies, railroad, canal, turnpike, canal navigation, slack water, telephone, telegraph, express, electric light, gas, water, street railway companies, and all other corporations, companies, or associations doing business for profit in the United States, no matter how created or organized, but not including partnerships.

That said tax shall be paid on or before the first day of July in each year; and if the president or other chief officer of any corporation, company, or association, or in the case of any foreign corporation, company, or association, the resident manager or agent shall neglect or refuse to file with the collector of the internal-revenue district in which said corporation, company, or association shall be located or be engaged in business, a statement verified by his oath or affirmation, in such form as shall be prescribed by the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, showing the amount of net profits or income received by said corporation, company, or association during the whole calendar year last preceding the date of filing said statement as hereinafter required, the corporation, company, or association making default shall forfeit as a penalty the sum of one thousand dollars and two per centum on the amount of taxes due, for each month until the same is paid, the payment of said penalty to be enforced as provided in other cases of neglect and refusal to make return of taxes under the internal-revenue laws.

The NET PROFITS or INCOME of all corporations, companies, or associations shall include the amounts paid to shareholders, or carried to the account of any fund, or used for construction, enlargement of plant, or any other expenditure or investment paid from the net annual profits made or acquired by said corporations, companies, or associations. \* \* \*

SEC. 35. That every corporation, company, or association doing business for profit shall make and render to the collector of its collection district, on or before the first Monday of March in every year, beginning with the year eighteen hundred and ninety-five, a full return, verified by oath or affirmation, in such form as the Commissioner of Internal Revenue may prescribe, of all the following matters for the whole calendar year last preceding the date of such return:

*First.* The gross profits of such corporation, company, or association, from all kinds of business of every name and nature.

*Second.* The expenses of such corporation, company, or association, exclusive of interest, annuities, or dividends.

*Third.* The net profits of such corporation, company, or association, without allowance for interest, annuities, or dividends.

*Fourth.* The amount paid on account of interest, annuities, and dividends, stated separately.

*Fifth.* The amount paid in salaries of four thousand dollars or less to each person employed.

*Sixth.* The amount paid in salaries of more than four thousand dollars to each person employed and the name and address of each of such persons, and the amount paid to each.

SEC. 36. That it shall be the duty of every corporation, company, or association doing business for profit to keep full, regular, and accurate books of account, upon which all its transactions shall be entered from day to day, in regular order, and whenever a collector or deputy collector of the district in which any corporation, company, or association is assessable shall believe that a true and correct return of the income of such corporation, company, or association has not been made, he shall make an affidavit of such belief and of the grounds on which it is founded, and file the same with the Commissioner of Internal Revenue, and if said Commissioner shall, on examination thereof, and after full hearing upon notice given to all the parties, conclude there is good ground for such belief he shall issue a request in writing to such corporation, company, or association to permit an inspection of the books of such corporation, company, or association to be made; and if such corporation, company, or association shall refuse to comply with such request, then the collector or deputy collector of the district shall make from such information as he can obtain an estimate of the amount of such income and then add fifty per centum thereto, which said assessment so made shall then be the lawful assessment of such income.

# UNITED STATES INTERNAL REVENUE

Return by Banks, Banking Institutions, Trust Companies, Savings Institutions, Fire, Marine, Life, or other Insurance Companies, Railway Companies, and all other Corporations, Companies, or Associations doing business

*Return to be made to the Collector of the district where the principal office or place of business is located, on or before*

The *Iron Cliffs Co* of *Marquette* in the County of *Marquette*, and District of the State of *Michigan*, makes and renders the following return of all gains, profits, or income received by or accrued to said *Iron Cliffs Co*, from the first day of January, 1894, to the thirty-first day of December, 1894, both days inclusive, pursuant to the provisions of the Internal-Revenue Laws:

		Dollars.	Cts.
1	Gross receipts, credits, earnings, and gains from any business, or any interest therein, wherever carried on	340	240.05
2	From interest or coupons, due or paid on any bonds, or other evidences of indebtedness of any corporation, company, or association	1	175.00
3	From dividends or interest on the stock, capital, or deposits of any corporation, company, or association		
4	From undivided profits of any corporation, company, or association		
5	From premium on bonds, stocks, notes, or coupons		
6	From commissions, or percentage		
*7	From interest on notes, bonds, or other securities of the United States, except such bonds of the United States the principal and interest of which are exempt from Federal taxation		
8	From interest received or accrued on all notes, bonds, mortgages, or other forms of indebtedness not included in the foregoing items	1	339.88
9	From profits realized within the year from sales of real estate purchased since December 31, 1893		
10	From rents received or accrued	6	219.88
11	From all sources not above enumerated (specifying same), viz:		
TOTAL RECEIPTS, GAINS, AND INCOME		348	974.81
		Dollars.	Cts.
12	OPERATING AND BUSINESS EXPENSES:		
	1. Interest paid or accrued within the year on bonded or other indebtedness		
	2. Losses actually sustained during the year		
	3. State, county, municipal, or town taxes accrued during the year 1894 and actually paid	22	268.02
	4. Salaries, compensation, or pay of officers or other persons employed during the year	71	422.80
	5. Rents, or necessary repairs, but not including amount used for construction or enlargement of plant	9	69.28
	6. Actual losses on sales of real estate purchased since December 31, 1893		
	7. Cost price of material purchased for manufacture or resale, not increasing stock on hand Dec. 31, 1893		
	8. Other expenses not above enumerated, viz: <i>Operating Expenses</i>	30	427.67
TOTAL OPERATING AND BUSINESS EXPENSES		398	939.77
13	<i>Loss</i> Net profits or income over operating and business expenses		49
AMOUNT OF NET PROFITS OR INCOME LIABLE TO TAX			none
TAX AT TWO PER CENTUM			none
14	Dividends and gains heretofore included in the statement of profits under paragraphs 3 and 4, received from corporations, companies, or associations, on which the tax of two per centum has once been paid by such corporation, etc		none
15	Amount paid in salaries, or other compensation, or pay of officers or other persons employed, not including salaries of more than four thousand dollars	103	300.82
16	Amount paid in salaries, or other compensation, or pay of officers or other persons employed, including only salaries of more than four thousand dollars	66	922.80
TOTAL SALARIES, ETC., PAID		71	422.80

NOTE.—The interest on all bonds of the United States should be returned as income by the person, corporation, company, or association owning or holding such bonds, except the interest on bonds of the funded loan of 1891 continued at two per cent, and the four per cent funded loan of 1907, and the five per cent loans of 1904, which is exempt.

When the registered letter or parcel accompanying this card is delivered, the postmaster will require signature to the receipt on the other side, also on his record of registered deliveries, and mail this card without cover to address below.

A penalty of \$300 is fixed by law for using this card for other than official business.

# Post Office Department.

OFFICIAL BUSINESS.

Post Office at

RETURN TO:

Stamp here name of Post Office

and date of delivery.

Name of Sender

Street and Number,  
or Post Office Box.

Post Office at CLEVELAND,

County of Cuyahoga, State of Ohio.

REGISTRY RETURN RECEIPT sent....., 1898

Reg. No. 117 From Post Office at CLEVELAND, OHIO.

\*Reg. Letter } Addressed to C. F. Sundstrom  
Reg. Parcel }  
Post Office at Michigan

After obtaining receipt below, the Postmaster will mail this card, without cover and without postage, to address on the other side.

RECEIVED THE ABOVE DESCRIBED REGISTERED { \*LETTER.  
PARCEL.

(SENDER'S NAME ON OTHER SIDE.)

Sign on dotted lines  
to the right.

When delivery is made to other than addressee, the name of both addressee and recipient must appear.

\*Erase letter or parcel according to which is sent.



Wm. G. ... President & Treasurer  
H. W. ... Vice President

B. C. Mann ... Secretary

Register  LETTER  PARCEL No. 1171 P. O., Cleveland, Ohio.

RECEIVED April 11, 1895 of Do (6-6-95)

a { Letter } addressed to C. F. Sundstrom  
{ Parcel } Michiganame Mich.  
A. T. ANDERSON, P. M., per

mercantile Bank Building, Cleveland, Ohio. April 11, 1895.

G

Mr. C. F. Sundstrom,  
Deputy Collector Internal Revenue, Michiganame, Mich.,

Dear Sir:

We enclose you herewith the income tax returns for the year ending December 31st, 1894 as required by law for the following companies:

- Michiganame Company,
- Iron Cliffs Company,
- Cleveland Iron Mining Company.

Kindly acknowledge receipt, and oblige,

Yours truly,

The Cleveland-Cliffs Iron Co.,

Adtr.

Encl.

The Cleveland-Cliffs Co makes returns to another district

Item #1 is made up of the following items on our Annual Report for 1894.

Page 7	196.97
"	736.24
8	123.60
"	22,868.20
"	17,795.03
"	1,244.99
9	53,885.65
10	225,341.63
11	15,700.76
12	2,346.98
	<hr/>
	\$ 340,240.05

Item #2 is amt of Interest rec'd from Ill Steel Co Bonds - see her side Interest Acct

" 8 is balance of her side of our Interest Acct.

" 10 made up as follows

1,447.67	House Rents - see Annual Report, page 7
1,591.11	Ground " " " "
507.05	House " Cliffs Shaft Mine
971.11	Land " " "
1648.00	House " Salisbury "
24.00	Land " " "
21.44	House " Foster "
9.50	" " Fitch "
	<hr/>
\$ 6,219.88	





7717.26

Land

Mines

Less Less 36233  
 Repairs 238.19  
8317.78

Tras 804.25  
 " 2611.76  
 202.72  
 762.41  
5274.11  
 Less 9637.35

in blor 135147.64  
 Less Taxes 13582.70  
121564.94  
 Less Wages 90408.59  
31156.35

Less Taxes 17955.13  
 868532  
9269.81  
 Less Wages 6282.60  
2987.21  
 Less Repairs 238.19  
\$ 2749.02

Less Repairs } 13109  
 45.29 }  
 85.80 }  
\$ 3102526  
 Add Repairs } 318110  
 at per cost reduction }  
\$ 2420636

Block Hold  
 Big 3mm  
 174.79  
 10112  
75.67  
 B.M. Jensen's note  
 241.81  
 Deduct from  
 Land Expense

Rail Int 1429.99  
 1480.09  
2910.08  
 Lumber 428.77  
 326.73  
755.50

Contract 1.78  
 Lake Int 28.00  
 per hand Exp.

Mining Ore  
 74056.89  
 46441.01  
27615.88  
 21792.00  
 2070.25  
 88.25  
51586.38

Open End Mine 16126.21  
 " Sales 116747.36  
 " Taxes 21655.7  
 " Rents 108.50  
 per w/p 135147.64

Analysis: Rail Int Ore Lake Int Ore Largo Lms Starting Explos honesty large Land Exp  
 21.92  
 339.43  
 6.00  
 20.25  
787.60  
 38593.40  
 69091.90  
 320.27  
 16.50  
 2892.63  
 2373.34  
 29014.00  
 11109.63  
 17904.37  
 600.00  
17304.37

Legal Exp His on sales  
 598.23  
 2153.61  
 1175.00  
 1339.88  
4668.49

Less Block PG 7567  
 B.M. Jensen's note 24181  
\$ 16988.89  
 573  
 Add Land PG note 16999.67



~~1000~~

~~2~~

~~2000.00~~

~~2500.  
2  
500.~~

"Copy"

(Form No. 366.)

# INCOME TAX, 1894.

ANNUAL RETURN  
OF  
**NET PROFITS OR INCOME**  
OF A CORPORATION,  
For Assessment of Taxes for 1894,

By .....

of .....

President, or (.....) of

**Iron Cliffs Co.**

of .....

in the..... District, State

of .....

To .....

## NOTICE.

Pursuant to an Act of Congress of the United States, in effect August 28, 1894, you are required to make out a return for the corporation or association of which you are an officer or agent, according to the forms within, and deliver the same to me, at my office, on or before the first Monday of March, 1895.

Dated this..... day of.....,

1895, at my office at .....

..... Collector.

UNITED STATES INTERNAL REVENUE.

Railroad, Canal, Turnpike, Canal Navigation, Slack Water, Telephone, Telegraph, Express, Electric Light, Gas, Water, Street for profit in the United States.—Sections 32, 34, and 35, Act of August 28, 1894.

the first Monday of March, 1895, and the tax to be paid to the Collector on or before the first day of July, 1895.

		Dollars.	Cts.
*17	Name and address of each person to whom a salary of more than four thousand dollars was paid, and the amount paid to such person :		
	NAME OF PERSON.		
	POST-OFFICE ADDRESS.		
	<i>Wm. G. Mather</i>	<i>4500.00</i>	
	<i>Cleveland, Ohio</i>		
	TOTAL.....		

Statement of all Interest, Annuities, and Dividends declared due or paid to shareholders, stockholders, policy holders, or Depositors by the *Iron Cliffs Co*, from the first day of January, 1894, to the thirty-first day of December, 1894, both days inclusive, and of all undivided profits of said *Company*, on hand or added to any fund, and amount of net annual profits, or income, of said *Company*, used for construction, enlargement of plant, or any other expenditure or investment, paid from the net annual profits of said *Company* for said year, pursuant to the provisions of the Internal-Revenue Laws :

		Dollars.	Cts.
1	Dividends declared or paid on stock, capital, or deposits, etc.....	<i>100000.00</i>	
2	Annuities declared or paid on bonds, stock, capital, or policies.....	<i>None</i>	
3	Interest paid on shares, stocks, capital, or deposits.....	<i>None</i>	
	TOTAL INTEREST, ANNUITIES, AND DIVIDENDS.....	<i>100000.00</i>	
4	Undivided <sup><i>Loss</i></sup> profits, over dividends declared or paid, on hand or carried to the account of surplus or other fund.....	<i>49964.96</i>	
5	Amount of net profits or income used for construction.....		
6	Amount of net profits or income used for enlargement, betterment, or permanent improvement of plant.....		
7	Amount of net profits or income used for other expenditures, or investment.....		
	TOTAL NET PROFITS <sup><i>Loss</i></sup> .....	<i>149964.96</i>	

Question 1. Has the corporation, company, or association for which this return is made, kept full, regular, and accurate books of account, upon which all its transactions were entered from day to day for the full period covered by this return? Answer. *Yes*

Question 2. Is this return made exclusively from said books? Answer. *Yes*

Question 3. Have the full amounts set forth in this return as salaries of officers and pay to employes been actually paid within the year covered by this return to bona fide officers and employes of this corporation, company, or association for services actually rendered? Answer. *Yes*

Question 4. What are the particular items of losses included in the amount set opposite paragraph 2, under "Operating and Business Expenses" on page 2 of this return, and when did each occur?

Answer.....

STATE OF \_\_\_\_\_, COUNTY OF \_\_\_\_\_, ss:

I, \_\_\_\_\_, of the \_\_\_\_\_, do swear (or affirm), that the foregoing return contains a true, full, regular, and accurate account of all the gains, profits, and income received by or accrued to said \_\_\_\_\_, from the first day of January, 1894, to the thirty-first day of December, 1894, both days inclusive, and a true and complete statement of the net profits or income of said \_\_\_\_\_ for said year, and the true amount and kind of operating and business expenses thereof; and of all dividends, interest, or annuities declared due or paid by said \_\_\_\_\_; and of all undivided profits thereof; and the amount of net profits or income used for construction, enlargement of plant, or investment, as therein specified; and that the above questions have been fully and truthfully answered.

Sworn to and subscribed before me this *11<sup>th</sup>* day of *April*, 1895.

† *signed by J. D. Morse, Deputy*

\* In case there is not sufficient space to contain the names of persons under paragraph 17, a supplementary list should be made and securely attached to the return and made a part thereof, under said paragraph, and marked "Exhibit A to paragraph 17."  
 † "President," "Cashier," "Secretary," as the case may be, of resident corporations, etc. "Resident Manager," or "Resident Agent," as the case may be, of foreign corporations, etc.  
 In computing income for taxation nonresident corporations shall include in their annual returns the entire profits or income of such corporations derived from all business conducted in the United States, deducting the operating and business expenses incurred in conducting such business.

IRON CLIFFS COMPANY

\*\*\*\*\*

Trial Balance before Inventory,

Nov. 30, 1894.

23	Interest a/c . . . . .	1.78	
24	Sorting Ore . . . . .	2.50	
31	Martel Furnace Co. . . . .	624.25	
39	Royalty a/c. . . . .		2278.86
40	Chas. J. Hodge . . . . .	535.80	
59	Illinois Steel Company Preferred Stock . . . . .	56760.00	
65	St. Clair Steamship Co. . . . .	150.00	
68	Michiganne Company . . . . .	2448.20	
87	Rail Freight on Pig Iron . . . . .	2884.39	
90	Legal Expense . . . . .	598.23	
91	Commissions on Pig Iron. . . . .		427.46
99	Cargo Insurance, Salisbury Ore . . . . .	143.75	
99	" " Litchfield Ore. . . . .	17.00	
101	" " Sals.Bes. Ore. . . . .	223.52	
101	Wellman Iron & Steel Co. . . . .	38.21	
105	National Bank of Commerce. . . . .	66.00	
109	Buffalo Mining Company . . . . .	704.54	
124	Interest on Ore. . . . .	2153.61	
128	Pickands, Brown & Company. . . . .	241.81	
137	Cash . . . . .	248315.70	
147	Pickands, Mather & Co. . . . .	6251.50	
152	Dockage & Handling . . . . .		94.01
157	Supplies, Pioneer Furnace. . . . .	15102.12	
158	Wm. G. Mather . . . . .	25.60	
159	The Andrews Brothers Company . . . . .	17.50	
161	J. H. Cremer, Special Expense. . . . .	115.00	
166	Lake Freight on Salisbury Bes. Ore . . . . .	34476.40	
167	" " Salisbury . . . . .	32453.45	
167	" " Litchfield . . . . .	2162.05	
168	Handling Salisbury Ore . . . . .	14.00	
170	Vouchers a/c . . . . .		25054.48
177	Lake Freight on Pig Iron . . . . .	4.00	
178	Cleveland Iron Mining Co. . . . .	3217.86	
182	Coal Job Supplies, Pioneer Furnace . . . . .	378.97	
191	Pioneer Furnace, Operating a/c . . . . .	4424.42	
192	Operating Coal Jobs, Pioneer Furnace . . . . .	1837.58	
196	Pig Iron Sales a/c . . . . .		41028.64
199	Unclaimed Wages, Pioneer Furnace . . . . .		22.66
200	Real Estate. . . . .	723746.77	
201	Capital Stock. . . . .		1000000.00
202	Surplus a/c. . . . .		701831.01
203	Profit and Loss. . . . .		302289.50
204	Dividend a/c, Paid . . . . .	100000.00	
222	Kilns, Pioneer Furnace . . . . .	6866.14	
224	Ground Rents, Pioneer Furnace. . . . .		906.76
225	Accounts Receivable, Pioneer Furnace . . . . .	3610.25	
226	Pay Rolls, Pioneer Furnace . . . . .		546.54
229	House Rents, Pioneer Furnace . . . . .		847.15
233	Supplies, Cliffs Shaft Mine. . . . .	13951.67	
234	Equipment, Cliffs Shaft Mine . . . . .	4950.97	
237	Land Rents, Cliffs Shaft Mine. . . . .		971.11
239	Thos. M. Wells. . . . .	51.26	
241	House Rents, Fitch Mine. . . . .		9.50
243	Land Rents, Salisbury Mine . . . . .		24.00
244	House Rents Salisbury Mine . . . . .		1648.00
244	Relinings and Renewals, Pioneer Furnace. . . . .		1222.09
247	Boiler Insurance, Paid . . . . .	141.80	
251	Debenture Bonds. . . . .	23500.00	
	Forward. . . . .		
		<b>1294208.60</b>	<b>2079201.77</b>

IRON CLIFFS COMPANY

\*\*\*\*\*

Trial Balance before Inventory, -Cont'd.

	Am't bro't f'w'd . . . . .	1294208.60	2079201.77
252	Sales of Foster Ore. . . . .		15700.76
254	Hospital Land, Mines . . . . .	572.00	
255	Unclaimed Wages, " . . . . .		105.15
256	Sales of Barnum Ore. . . . .		11402.31
260	Sales of Pioneer Lots, Pioneer Furnace . . . . .		623.07
261	Timber and Wood Sales, Pioneer Furnace . . . . .		2382.75
262	Farming, Pioneer Furnace . . . . .	202.72	
263	Timber Lands, Pioneer Furnace. . . . .	3199.51	
264	Options, Mines . . . . .		10.00
265	Lands, Pioneer Furnace . . . . .	5274.11	
267	Int. on sales of Farm Land, Pioneer Fce. . . . .		196.97
268	Taxes, Pioneer Furnace . . . . .	276.66	
270	Buildings, Pioneer Furnace . . . . .	1455.26	
278	Accounts Payable, Mines. . . . .		176.76
281	Pay Rolls, Mines . . . . .		8181.13
282	Bills Audited. . . . .		195.01
284	Sales of Farm Lands, Pioneer Furnace . . . . .		3070.00
285	Sales of Old Material. . . . .		736.24
287	James Curnow . . . . .	469.23	
288	Stock of Cliffs Shaft Ore. . . . .	380098.35	
290	Stock of Barnum Ore. . . . .	115709.45	
292	Stock of Salisbury Bessemer Ore. . . . .	100133.92	
294	" " Salisbury Ore . . . . .	13931.45	
296	Stock of Old Mine Barnum Ore . . . . .	1059.00	
300	Stock of Fitch Ore . . . . .	33449.00	
304	Stock of Foster Ore. . . . .	21792.00	
306	Stock of Pioneer Pig Iron. . . . .	58937.05	
309	Scrap, Cliffs Shaft Mine . . . . .	297.00	
311	Supplies, Salisbury Mine . . . . .	7558.54	
312	Equipment, " " . . . . .	1741.25	
313	Scrap, " " . . . . .	52.14	
319	House Rents " " . . . . .		21.44
320	Taxes, Unpaid. . . . .		13582.70
324	F. P. Mills, Supt. . . . .	264.28	
330	A. Farrell, Ag't . . . . .	541.20	
336	Benefit Fund, Cliffs Shaft Mine. . . . .		1266.10
337	Suspense Fund. . . . .		1266.10
340	House Rents, Cliffs Shaft Mine . . . . .		507.05
342	Repairs of Rented Houses, C.S. Mine . . . . .	45.29	
346	" " " " Sals. Mine . . . . .	85.80	
350	Sales of Cliffs Shaft Ore. . . . .		44107.24
354	" " Litchfield " . . . . .		4101.03
356	" " Salisbury Ore. . . . .		116425.50
360	" " Sals. Bessemer Ore . . . . .		113098.01
362	" " Sals. Silica Ore . . . . .		438.03
365	Bills Receivable . . . . .	70201.99	
374	Commissions, Cliffs Shaft Ore. . . . .	2132.15	
376	" Salisbury Ore . . . . .	3794.40	
377	" Sals. Bessemer Ore. . . . .	12492.95	
378	" Barnum Ore . . . . .	368.80	
379	" Salisbury Silica Ore. . . . .	66.20	
380	" Foster Ore. . . . .	1570.10	
381	" Litchfield Ore. . . . .	186.40	
383	Rail Freight on Sals. Bes. Ore . . . . .	15972.13	
384	" " Salisbury Ore . . . . .	22621.27	
386	Analysis of Cliffs Shaft Ore . . . . .	21.92	
388	" " Salisbury Ore . . . . .	312.43	
388	" " Salisbury Bessemer Ore. . . . .	387.00	
388	" " Litchfield Ore. . . . .	40.00	
	Am't Forward . . . . .	2173521.55	2416795.12

IRON CLIFFS COMPANY

.....

Trial Balance before Inventory, -Cont'd.

	Am't brought forward . . . . .	2173521.55	2416795.12
392	Analysis of Foster Ore . . . . .	6.00	
393	" " Foreign Ore . . . . .	20.25	
396	Operating Cliffs Shaft Mine . . . . .	17559.08	
402	" Salisbury Mine . . . . .	118333.56	
408	" Foster Mine . . . . .	2187.01	
412	" Fitch Mine . . . . .	118.00	
428	Fixtures Fitch Mine . . . . .	3550.00	
432	New Construction, Cliffs Shaft Mine . . . . .	31285.96	
440	Accounts Receivable . . . . .	607.52	
442	Discounts on Mine Vouchers . . . . .		58.12
444	Brass Check Cash . . . . .		227.75
448	Explorations, Section 6 . . . . .	1632.49	
449	" " 21 . . . . .	1260.14	
452	Junction Lot Rents Receivable . . . . .	244.00	
453	Junction Lot Rents . . . . .		244.00
454	Barnum Lot Rents Receivable . . . . .	331.80	
455	Barnum Lot Rents . . . . .		331.80
456	Salisbury Lot Rents, Receivable . . . . .	26.00	
457	Salisbury Lot Rents . . . . .		26.00
458	Farm Rents Receivable . . . . .	351.84	
459	Farm Rents . . . . .		351.84
460	Miscellaneous Rents Receivable . . . . .	138.00	
461	Miscellaneous Rents . . . . .		138.00
501	The Cleveland-Cliffs Iron Co. . . . .	46239.32	
506	General Expense . . . . .	13093.10	
512	Rebates and Penalties, Previous years sales . . . . .	1034.74	
514	The C)C.I.Co., New Furnace a/c . . . . .	6355.14	
516	Lake Shore Iron Works . . . . .		174.96
520	The Cleveland-Cliffs Iron Co., Excelsior Furnace a/c . . . . .	452.09	
		<b>2418347.59</b>	<b>2418347.59</b>



IRON CLIFFS COMPANY

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Trial Balance before Inventory,

Nov. 30, 1894.

23	Interest a/c . . . . .	1.78	
24	Sorting Ore. . . . .	2.50	
31	Martel Furnace Co. . . . .	624.25	
39	Royalty a/c. . . . .		2278.86
40	Chas. J. Hodge . . . . .	535.80	
59	Illinois Steel Company Preferred Stock. . . . .	56760.00	
65	St. Clair Steamship Co. . . . .	150.00	
68	Michiganne Company . . . . .	2448.20	
87	Rail Freight on Pig Iron . . . . .	2884.39	
90	Legal Expense . . . . .	598.23	
91	Commissions on Pig Iron. . . . .		427.46
99	Cargo Insurance, Salisbury Ore . . . . .	143.75	
99	" " Litchfield Ore. . . . .	17.00	
101	" " Sals.Bes. Ore. . . . .	223.52	
101	Wellman Iron & Steel Co. . . . .	38.21	
105	National Bank of Commerce. . . . .	66.00	
109	Buffalo Mining Company . . . . .	704.54	
124	Interest on Ore. . . . .	2153.61	
128	Pickands, Brown & Company. . . . .	241.81	
137	Cash . . . . .	248315.70	
147	Pickands, Mather & Co. . . . .	6251.50	
152	Dockage & Handling . . . . .		94.01
157	Supplies, Pioneer Furnace. . . . .	15102.12	
158	Wm. G. Mather . . . . .	25.60	
159	The Andrews Brothers Company . . . . .	17.50	
161	J. H. Cremer, Special Expense. . . . .	115.00	
166	Lake Freight on Salisbury Bes. Ore . . . . .	34476.40	
167	" " " Salisbury " . . . . .	32453.45	
167	" " " Litchfield . . . . .	2162.05	
168	Handling Salisbury Ore . . . . .	14.00	
170	Vouchers a/c . . . . .		25054.48
177	Lake Freight on Pig Iron . . . . .	4.00	
178	Cleveland Iron Mining Co. . . . .	3217.86	
182	Coal Job Supplies, Pioneer Furnace . . . . .	378.97	
191	Pioneer Furnace, Operating a/c . . . . .	4424.42	
192	Operating Coal Jobs, Pioneer Furnace . . . . .	1837.58	
196	Pig Iron Sales a/c . . . . .		41028.64
199	Unclaimed Wages, Pioneer Furnace . . . . .		22.66
200	Real Estate. . . . .	723746.77	
201	Capital Stock. . . . .		1000000.00
202	Surplus a/c. . . . .		701831.01
203	Profit and Loss. . . . .		302289.50
204	Dividend a/c, Paid . . . . .	100000.00	
222	Kilns, Pioneer Furnace . . . . .	6866.14	
224	Ground Rents, Pioneer Furnace. . . . .		906.76
225	Accounts Receivable, Pioneer Furnace . . . . .	3610.25	
226	Pay Rolls, Pioneer Furnace . . . . .		546.54
229	House Rents, Pioneer Furnace . . . . .		847.15
233	Supplies, Cliffs Shaft Mine. . . . .	13951.67	
234	Equipment, Cliffs Shaft Mine . . . . .	4950.97	
237	Land Rents, Cliffs Shaft Mine. . . . .		971.11
239	Thos. M. Wells. . . . .	51.26	
241	House Rents, Fitch Mine. . . . .		9.50
243	Land Rents, Salisbury Mine . . . . .		24.00
244	House Rents Salisbury Mine . . . . .		1648.00
244	Relinings and Renewals, Pioneer Furnace. . . . .		1222.09
247	Boiler Insurance, Paid . . . . .	141.80	
251	Debenture Bonds. . . . .	23500.00	
	Forward. . . . .		
		<b>1294208.60</b>	<b>2079201.77</b>

IRON CLIFFS COMPANY

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Trial Balance before Inventory, -Cont'd.

	Am't bro't f'w'd . . . . .	1294208.60	2079201.77
252	Sales of Foster Ore. . . . .		15700.76
254	Hospital Land, Mines . . . . .	572.00	
255	Uncollected Wages, " . . . . .		105.15
256	Sales of Barnum Ore. . . . .		11402.31
260	Sales of Pioneer Lots, Pioneer Furnace . . . . .		623.07
261	Timber and Wood Sales, Pioneer Furnace . . . . .		2382.75
262	Farming, Pioneer Furnace . . . . .	202.72	
263	Timber Lands, Pioneer Furnace . . . . .	3199.51	
264	Options, Mines . . . . .		10.00
265	Lands, Pioneer Furnace . . . . .	5274.11	
267	Int.on sales of Farm Land, Pioneer Fce. . . . .		196.97
268	Taxes, Pioneer Furnace . . . . .	276.66	
270	Buildings, Pioneer Furnace . . . . .	1455.26	
278	Accounts Payable, Mines . . . . .		176.76
281	Pay Rolls, Mines . . . . .		8181.13
282	Bills Audited. . . . .		195.01
284	Sales of Farm Lands, Pioneer Furnace . . . . .		3070.00
285	Sales of Old Material. . . . .		736.24
287	James Curnow . . . . .	469.23	
288	Stock of Cliffs Shaft Ore. . . . .	380098.35	
290	Stock of Barnum Ore. . . . .	115709.45	
292	Stock of Salisbury Bessemer Ore. . . . .	100133.92	
294	" " Salisbury Ore . . . . .	13931.45	
296	Stock of Old Mine Barnum Ore . . . . .	1059.00	
300	Stock of Fitch Ore . . . . .	33449.00	
304	Stock of Foster Ore. . . . .	21792.00	
306	Stock of Pioneer Pig Iron. . . . .	58937.05	
309	Scrap, Cliffs Shaft Mine . . . . .	297.00	
311	Supplies, Salisbury Mine . . . . .	7558.54	
312	Equipment, " " . . . . .	1741.25	
313	Scrap, " " . . . . .	52.14	
319	House Rents " " . . . . .		21.44
320	Taxes, Unpaid. . . . .		13582.70
324	F. P. Mills, Supt. . . . .	264.28	
330	A. Farrell, Ag't . . . . .	541.20	
336	Benefit Fund, Cliffs Shaft Mine. . . . .		1266.10
337	Suspense Fund. . . . .		1266.10
340	House Rents, Cliffs Shaft Mine . . . . .		507.05
342	Repairs of Rented Houses, C.S.Mine . . . . .	45.29	
346	" " " " Sals. Mine . . . . .	85.80	
350	Sales of Cliffs Shaft Ore. . . . .		44107.24
354	" " Litchfield " . . . . .		4101.03
356	" " Salisbury Ore. . . . .		116425.50
360	" " Sals. Bessemer Ore . . . . .		113098.01
362	" " Sals. Silica Ore . . . . .		438.03
365	Bills Receivable . . . . .	70201.99	
374	Commissions, Cliffs Shaft Ore. . . . .	2132.15	
376	" Salisbury Ore . . . . .	6794.40	
377	" Sals. Bessemer Ore. . . . .	12492.95	
378	" Barnum Ore . . . . .	368.80	
379	" Salisbury Silica Ore. . . . .	66.20	
380	" Foster Ore. . . . .	1570.10	
381	" Litchfield Ore. . . . .	186.40	
383	Rail Freight on Sals. Bes. Ore . . . . .	15972.13	
384	" " Salisbury Ore . . . . .	22621.27	
386	Analysis of Cliffs Shaft Ore . . . . .	21.92	
388	" " Salisbury Ore . . . . .	312.43	
388	" " Salisbury Bessemer Ore. . . . .	387.00	
388	" " Litchfield Ore. . . . .	40.00	
	Am't Forward . . . . .	2173521.55	2416795.12

IRON CLIFFS COMPANY

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Trial Balance before Inventory, -Cont'd.

	Am't brought forward . . . . .	<b>2173521.55</b>	<b>2416795.12</b>
392	Analysis of Foster Ore . . . . .	6.00	
393	" " Foreign Ore. . . . .	20.25	
396	Operating Cliffs Shaft Mine. . . . .	17559.08	
402	" Salisbury Mine . . . . .	118333.56	
408	" Foster Mine. . . . .	2187.01	
412	" Fitch Mine . . . . .	118.00	
428	Fixtures Fitch Mine. . . . .	3550.00	
432	New Construction, Cliffs Shaft Mine. . . . .	31285.96	
440	Accounts Receivable. . . . .	607.52	
442	Discounts on Mine Vouchers . . . . .		58.12
444	Brass Check Cash . . . . .		227.75
448	Explorations, Section 6. . . . .	1632.49	
449	" " 21 . . . . .	1260.14	
452	Junction Lot Rents Receivable. . . . .	244.00	
453	Junction Lot Rents . . . . .		244.00
454	Barnum Lot Rents Receivable . . . . .	331.80	
455	Barnum Lot Rents . . . . .		331.80
456	Salisbury Lot Rents, Receivable. . . . .	26.00	
457	Salisbury Lot Rents . . . . .		26.00
458	Farm Rents Receivable. . . . .	351.84	
459	Farm Rents . . . . .		351.84
460	Miscellaneous Rents Receivable . . . . .	138.00	
461	Miscellaneous Rents . . . . .		138.00
501	The Cleveland-Cliffs Iron Co. . . . .	46239.32	
506	General Expense. . . . .	13093.10	
512	Rebates and Penalties, Previous years sales. . . . .	1034.74	
514	The C)C.I.Co., New Furnace a/c. . . . .	6355.14	
516	Lake Shore Iron Works. . . . .		174.96
520	The Cleveland-Cliffs Iron Co., Excelsior Furnace a/c. . . . .	452.09	
		<b>2418347.59</b>	<b>2418347.59</b>

Five-hour Test HAMILTON NO. 2 SHAFT, April 1st, 1892.

Average height water hoisted	1146 ft
Number of buckets of 2615 gals., 179	3908509
Number of foot pounds	4,479,151,314
Coal Consumed	7,030
Ash & Clinker 544 lbs.	.077 %
Foot pounds produced per 100 lbs. Coal	63,714,812
Foot pounds produced per 100 lbs. Comb.	69,058,762
Total Water evaporated in pounds	82,989
Temp. of Feed-water	202.5
Lbs. Water evaporated per lbs. Coal	11.8
Lbs. Water evaporated per lbs. Comb.	12.79
Lbs. Water evaporated per lbs. Comb. at 212	13.45
Net Horse Power produced	518.8
Lbs. Coal per net Horse Power per hour	3.11
I. H. P. as per diag.	587.4
Lbs. Coal per I. H. P. per hour	2.75
Difference between net h. p. and indicated	13.22 %

During the Test 38 1/2 minutes were lost in hoisting for which no deduction was made in Coal charged to Engines.

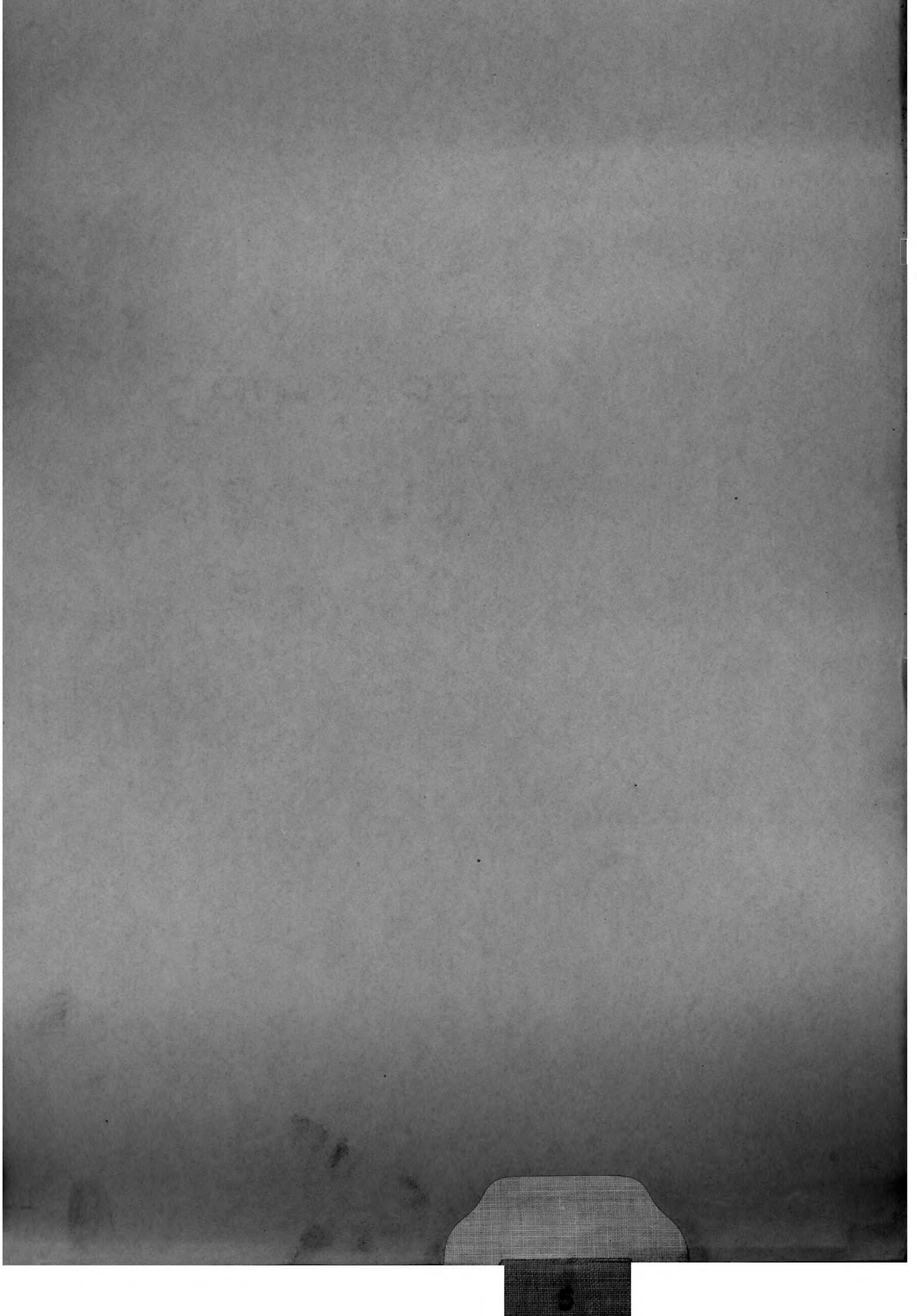
Mine Water estimated at 8.35 pounds per gallon; Feed at 202.5 degrees, 8.02 pounds per gallon.

WEBSTER, CAMP & LANE MACHINE CO.,  
MANUFACTURERS

CORLISS ENGINES,  
GENERAL MINING MACHINERY.

AKRON, OHIO, U. S. A.

*Engines - pair first motion 32" x 72" Corliss  
engine with double Kicks 6 ft x 19 ft dia.*



C.C.I.C.  
2/11/11Cleveland - Cliffs Iron Co.  
Miscellaneous Data, 1894

- 1 Shuts of Shipments of Ore
- 2 Coal Consumption
- 3 Comp. Sheet General Expense Accts.
- 4 Expense at Cliffs Cottage
- 5 Income Tax Statement
- 6 Summary of Supplies Used
- 7 Copy of Report Furnished Stockholders
- 8
- 9
- 10
- 11

C.C.I.C.

## Miscellaneous

- 13 Specifications for Stockhouse Nestle
- 14 " " Cord Wood "
- 15 Operations of Steamers C.I.M.Co + C.C.I.Co.

~~C.C.I.C.~~  
~~Misc Data~~  
~~18/94~~

Statement of Shipments for season of 1894

Cleveland Iron Mining Co.							Iron Cliffs Co.						Grand Total	
Tons Shipped	Resumer No. 1	Scotch	Fin Scotch	Lake	Hematite	Total	Cl. Shaft	Litchfield	Silica	Salisbury	Salisbury Resumer	Foster	Total	Grand Total
Autism Iron Co.				3255	✓	3255								
Elk Rapids Iron Co.	8755			13487		22242								
Excelsior Furnace	358	1275		5441	✓	7074			662	3014		1092	4768	11842
Layford Iron Co.	2662					2662				1902			1902	4564
Minor Steel Co.	10267			1406		11673	5979			21444	85393		112816	124489
Northwestern Iron Co.				3423	✓	3423								3423
Pennular Iron Co.										4650			4650	4650
Union Iron Co.			712			712				4059			4059	4771
Toledo				19887		19887				15181			15181	35068
Sandusky				8633		8633		4724					4724	13357
Cleveland	3937	14943	5008	39086		62974				32153	45039		77192	140166
Fairport													6163	6163
Total Vessel & all rail	10267	15712	16930	5008	94618	142535	5979	4724	662	90099	136595	15701	253760	396295
In Docks and Canal			1074		97	1171								1171
Total from Mines	10267	15712	18004	5008	94715	143706	5979	4724	662	90099	136595	15701	253760	397466

Grades of OTE from different Mines

Grade Shipped	Resumer No. 1	Scotch	Fin Scotch	Lake	Hematite	Total	Cl. Shaft	Litchfield	Silica	Salisbury	Salisbury Resumer	Foster	Grand Total
Resumer	10267												10267
No. 1	15712												15712
Scotch		14897											14897
Fin Scotch		99	5008										5107
Lake				87227						3576			90803
Hematite										92	73196		73288
Total C.I.M. Co.	10267	15712	14996	5008	87227					3668	73196		210074
Cliffs Shaft			3008				5979						8987
Litchfield								4724					4724
Silica									662				662
Salisbury				7392						86266			93658
Salis. Resumer				96						165	63399		63660
Foster												15701	15701
Total I.C. Co.			3008		7488		5979	4724	662	86431	63399	15701	187392
Grand Total	10267	15712	18004	5008	94715		5979	4724	662	90099	136595	15701	397466

Shipments over each line of Railroad

	Resumer No. 1	Scotch	Fin Scotch	Lake	Hematite	Total	Cl. Shaft	Litchfield	Silica	Salisbury	Salisbury Resumer	Foster	Total	Grand Total
By C.N. & A. all rail	358	1275		5441		7074			662	3014		1092	4768	11842
" " Dock	7901	12692	11415	4128	31002	67138	5979	4724		34803	85393	11515	142414	209552
Total	7901	13050	12690	4128	36443	74212	5979	4724	662	37817	85393	12607	147182	221394
By D.S. & A. all rail				6679		6679				7696		3094	10790	17469
" " Dock	2366	2662	5314	880	51593	62815				44586	51202		95788	158603
Total	2366	2662	5314	880	58272	69494				52282	51202	3094	106578	176072
Grand Total	10267	15712	18004	5008	94715	143706	5979	4724	662	90099	136595	15701	253760	397466

*De Schipman*





# Webster Pump & Log Machine Co.

AKRON COALISS ENGINES  
MINING MACHINERY

POTTERY AND SEWER PIPE MACHINERY

Akron, Ohio. U.S.A.

March 2nd, 1895.

W. G. Mather, Pres't.,

Cleveland-Cliffs Iron Co.,

Cleveland, O.

*F. P. M.*

*Note return*

*F. P. M.*

Dear Sir:-

We owe you an apology for our delay in answering your favor of 9th ult, but the writer has been absent a great deal of the time since then and have had no opportunity to give the matter careful consideration until now.

The statement, it seems to us, is in good comprehensive shape, and we can suggest only two additional items, which might be of interest, in addition to what is given.

The first item of "Ore hoisted per pounds of coal", if the time during which hoisting had been carried on during the year were given, you would then be able to figure the coal used per Horse power per hour, which would be an additional check, and valuable for reference. The average height from which Ore is hoisted would also be necessary, as we presume it would hardly be safe to assume this to be the same as that of water lifted.

In the second item, i.e. of water lifted, we have worked out the duty shown, i.e. the number of foot pounds per 100 lbs. of coal used.

While the showing in this item is very good for the Salisbury Mine (which has the Cornish Pumping Plant) it does not show up so well for the Hematite Mine and Lake Mine, which we believe have Direct Acting Compound Steam Pumps. There may be other circumstances which effect the conditions, making this great change. The duty of about 8,000,000-Water handled in Salisbury Mine, is, we think, very good for a report running through the entire year, but of course, the special test at any particular time where coal is carefully weighed up and everything running to the

W. G. M., Pt., #2.

best advantage, would doubtless show up considerably better.

The old Chapin Pumping Plant of two Coupled Corliss Engines geared to a double line of Pumps showing on special test a duty of about 58,000,000, while we develop, in handling water in the Hematite Shaft as per report (copy of which I enclose herewith) a duty of 63,000,000 and over per 100 lbs. of coal, or of 69,000,000 per 100 lbs. of combustible.

As you are doubtless aware the duty of the highest type of water works Engines approximate 100,000,000, the conditions there being most favorable in every way and Compound or Triple Expansion Condensing Engines being used.

We are pleased to see that the Salisbury Hoisting Plant, which we built, is comparing so favorably with the Compound Engines in use on the Lake Plant. We should think the Salisbury Mine showing throughout, would be a very satisfactory one to you, and as we are not fully familiar with the conditions at the other two Mines, we presume there are circumstances which account for the difference shown in fuel used at that point.

We are not sufficiently familiar with the cost of fuel for Air Compressing to express an opinion on this department.

Trusting the above may be of some little service to you, we remain

Yours very truly,

Webster, Camp & Lane Machine Co.

*J. H. Patten*  
Gen'l. Man'gr.

1 enc.

Five-hour Test HAMILTON NO. 2 SHAFT, April 1st, 1892.

Average height water hoisted	1146 ft
Number of buckets of 2615 gals., 179	3908509
Number of foot pounds	4,479,151,314
Coal Consumed	7,030
Ash & Clinker 544 lbs.	.077 %
Foot pounds produced per 100 lbs. Coal	63,714,812
Foot pounds produced per 100 lbs. Comb.	69,058,762
Total Water evaporated in pounds	82,989
Temp. of Feed-water	202.5
Lbs. Water evaporated per lbs. Coal	11.8
Lbs. Water evaporated per lbs. Comb.	12.79
Lbs. Water evaporated per lbs. Comb. at 212	13.45
Net Horse Power produced	518.8
Lbs. Coal per net Horse Power per hour	3.11
I. H. P. as per diag.	587.4
Lbs. Coal per I. H. P. per hour	2.75
Difference between net h. p. and indicated	13.22 %

During the Test 38 1/2 minutes were lost in hoisting for which no deduction was made in Coal charged to Engines.

Mine Water estimated at 8.35 pounds per gallon; Feed at 202.5 degrees, 8.02 pounds per gallon.

WEBSTER, CAMP & LANE MACHINE CO.,  
MANUFACTURERS

CORLISS ENGINES,  
GENERAL MINING MACHINERY.

AKRON, OHIO, U. S. A.

*Engines - pair first motion 32" x 72" Corliss  
engine with double Kicks 6 ft x 19 ft dia.*

# Statement of Coal Consumption for year Ending November 30<sup>th</sup> 1894

	Lake Mine			Hematite Mine			Salisbury Mine		
	Tons Coal	Amount		Tons Coal	Amount		Tons Coal	Amount	
Hoisting Product	412	1319 70		849	2679 40		986	3028 57	
Pounds Coal per Ton of Ore			97.018			64668			150.254
Cost per ton for Fuel			8.50			2626			13.12
			.0136			.0414			.0202
Pumping	1225	3968 70		1680	5314 65		537 1/2	1652 17	
Height of Lift			388			1002			719
Foot Tons			89.248.436			258.835.628			202.208.684
Tons Water Pumped			230022			258319			281236
Pounds Coal per ton of Water			10.65			13.01			3.47
Cost per ton for Fuel			.0173			.0206			.0059
Tons Water per Tons Ore			2.37			3.995			1.872
Foot pounds per 100 lbs coal.			7281.000			15.400.000			31.973.000
Compressors Product	1063 1/2	3339 45		300 1/2	989 05		445 1/2	1351 18	
Pounds Coal per ton of Ore			97.018			64668			150.254
Cost per ton for Fuel			21.92			9.29			5.93
			.0344			.0153			.0090
Coal Used for Steam Shovel, Exploring Heating etc.	186	594 79		211 1/2	684 03		281 3/4	831 90	
<b>Total Tons Used</b>	<b>2886 1/2</b>	<b>9222 64</b>		<b>3041</b>	<b>9667 13</b>		<b>2250 3/4</b>	<b>6863 82</b>	

*Fuel Statement*

*Year ending Nov 30/94.*

Comparative Statement of General Expense Accounts.  
for 1893 and 1894.

	Cleveland Iron Pipe Co.		Iron Cliffs Co.	
	1893	1894	1893	1894
Superintendent	404037	289266	404036	308440
Clerks	554510	355208	530505	227507
Master Mechanic	132500	62286	30000	40176
Watchman	82303	97009	4500	23175
Choreman	13125	11250	9625	11250
Stationery and Printing	53772	33306	31409	19008
Telephones and Telegraphing	29301	25373	29919	24549
Traveling	40403	7958	21383	2860
Fuel and Light	26197	20798	29671	20728
Water and Ice	13702	4903	5641	1400
Livery	3900	1300	1000	650
Postage	7900	5902	5200	5898
Papers and Periodicals	3250	1525		1525
Freight and Express	1162	1489	290	1212
Donations	7240	1000	6200	1000
Petty Office Expense	3377	2632	2220	865
Exchange	33506	11600	29676	6600
Office Furniture & Fixtures	2720	8721	1511	6573
Legal	32030	26000	31743	26000
Fire Insurance	54515	65380	2257	8750
Boiler	14160	14160	14160	14160
Taxes	2714880	2250341	1727429	1328316
Advertising	2100	1500	1500	1500
Engineering	200761	141825	106877	106895
Analysis	259087	142021	74263	107983
Relief Fund	180810	138390	141570	72300
Reut.			33000	33000
<b>Total</b>	<b>4871248</b>	<b>3721143</b>	<b>3275585</b>	<b>2402320</b>
Decrease		1150105		873265

I should be less only in mine working  
method of 3.  
this is on basis of division  
for each year.  
3 This year it will be on actual

and before  
mine

Statement of Expenses "Cliff Cottage" for Year Ending Nov 30/94

	For Mo.		For Year	
	Amt		Amt	
Repairs to Building			179	11
Yard-Cleaning etc			28	57
Fuel-Coal and Wood			51	60
Water Rate			6	00
Water Line Repairs	71	86	71	86
Ice			2	00
Electric Light	7	83	93	96
Choreman	30	00	225	00
Telephone			5	00
Total	59	69	658	10



"Cliff Cottage"  
Reports for Year  
1894.

REGISTRY RETURN RECEIPT sent APR 11, 189 .

Reg. No. 1170

From Post Office at CLEVELAND, OHIO.

\*Reg. Letter }  
Reg. Parcel } Addressed to

Post Office at

*W. J. Mize*  
*Chicago Ill*

After obtaining receipt below, the Postmaster will mail this Card, without cover and without postage, to address on the other side.

RECEIVED THE ABOVE DESCRIBED REGISTERED ~~\*LETTER.~~  
~~PARCEL.~~

(SENDER'S NAME ON OTHER SIDE.)

Sign on dotted lines  
to the right.

When delivery is made to other  
than addressee, the name of both  
addressee and recipient must ap-  
pear.

*W. J. Mize*

\* Erase letter or parcel according to which is sent.