

Mine and Vessel

AGENT'S ANNUAL REPORTS AND
STATISTICS.

YEAR 1892.

MS 86-100
2058

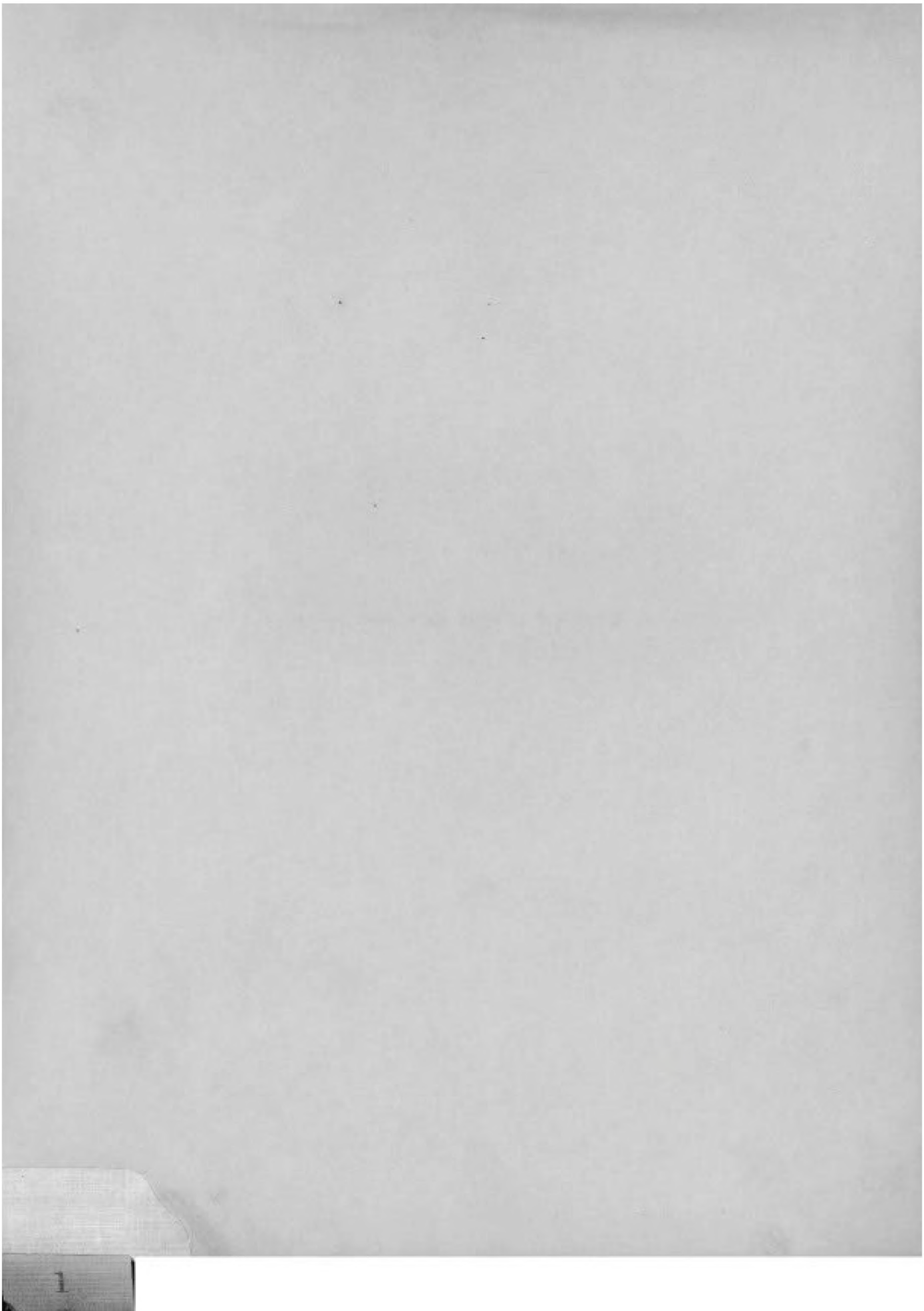
#2058

2.

ANNUAL REPORTS AND STATISTICS
DEPARTMENT OPERATIONS
YEAR ENDING NOVEMBER 30, 1892.

I N D E X

1	Mine Dept. Agents Annual Report - Clevd. Iron Mining Co.	1	✓
2	" " Miscellaneous Data " " " "	2	✓
3	" " Agent's Annual Report - Iron Cliffs Co.	3	✓
4	" " Miscellaneous Data " " "	4	✓
5	Furnace Dept. Manager's Report - Cleveland-Cliffs Iron Co.	5	✓
6	Vessel " Operating Statistics " " " "	6	✓



CLEVELAND IRON MINING COMPANY,

ISHPEMING, MICHIGAN.

REPORT OF AGENT FOR YEAR ENDING DECEMBER 1st 1892.

CLEVELAND IRON MINING COMPANY,

ISHPEMING, MICHIGAN.

Report of Agent for year ending December 1st 1892.

January 16th 1893.

W. G. Mather, Esq.,
Pres. and Treas. C. I. M. Co.,
Cleveland, Ohio.

Dear Sir:-

We send you detailed cost statements, copy of inventory and book of maps.

Following is description of work done during year and present condition of your property:-

MORO MINE.

Produced during last year	31025 tons.
Estimated production for coming year	0 "
Average number of men employed	88

This mine was shut down in June 1892, and no work of any kind has been done in it since. The water is now 448 feet deep, being 12 feet above the knuckle in shaft.

Shaft has not been sunk any during year, still remaining at a depth of 708 feet vertical.

On 1st, or 290 foot level, no extensions in a lateral direction have been made during the year. One machine only has been employed, and this one on a back stop that still contains considerable ore, but which is narrow and expensive to follow.

The 2nd level only appears on map of old north workings, and was long since worked out.

On 3rd, or 345 foot level, no extensions have been made, nor do we think it likely that any could be made in ore. Most of the ore above this level and up to the first has been mined out. We were working one machine here at time, ^{mine} shut down, and enough still remains to keep a machine busy for a year. The floor of this level would produce considerable ore, it being from five to twenty feet thick.

North of the old north deposit some ore showing in diamond drill hole might be worth while to test, but there is little prospect of it amounting to much.

The 4th and 5th levels show only on map of old worked out north deposit.

On 6th, or 426 foot level, no work has been done lately, except in an underhand stope where one machine broke ore down to a sublevel between the 6th and 7th. This stope has lasted longer than we had hoped for, and is good for a couple of months work yet.

On 7th, or 485 foot level, no work has been done for some time, the ore on 6th level not extending down to this, and there is but a small amount of ore left in the roof and floor of this level.

On 8th, or 525 foot level, the stope west has been extended 115 feet during year, and branch parallel and south has been extended 70 feet. The ore, however, is poor and there is little encouragement to keep on. A block of ore still remains in the roof that could be taken down at any time.

On 9th, or 560 foot level, the stope west with a width of 20 to 25 feet has been extended 260 feet, and two machines were employed here when work stopped. The stope has produced some good ore, but western end is at present in poorer stuff. A small amount of ore remains in the back.

On 10th, or 600 foot level, an extension has been made west 230 feet with a width of ore varying from 10 to 30 feet. The breast of stope shows 18 feet wide of good ore, and is within 50 feet of the Lake Superior line.

We think this ore belongs to that found with the Union Hole a number of years ago. It would seem, however, that we are in the north fold, as drill hole cut ore 125 feet further to the south, and 115 feet further down. A drill hole south from west end of this level might cut another deposit of ore that could have come in below the 6th, and that might form the south fold.

Considerable ore is left in the roof of this level, nothing but the breast stope having been carried west.

On 11th, or 641 foot level, have done but little work during year. A lead was followed 40 feet to south-west, and at present shows 5 feet of clean ore, but the main body will be found under the western extension of the 10th level, and ought to show up a large amount of ore. It is still 480 feet to Lake Superior line.

On 12th, or 703 foot level, we have been unable to do any work on account of the extra water cut on western extension of 10th level. The level is driven in 40 feet, and is in siderite.

During year have replaced all the 10 inch pump poles with 12 inch ones and put in heavier pump rods in the downright. Also built a new and heavier foundation under pumping engine on surface, and should have no more trouble with water. There can be no question about this and another level striking the ore west cut by the Union Hole, as depth would be right.

One drill hole was bored on this level without favorable result, and another started but was drowned out before completing same.

The amount of ore now in sight we estimate at 100,000 tons. Ore has been mined with breast and back stopes, and floors of levels by underhand stopes.

It was customary to let contracts in this pit at so much a foot for drilling done by the machine men, and at so much a skip for filling and tramming done by separate gang. Rock drifts and shaft sinking was by the foot.

INCLINE MINE.

Produced during last year	19886 tons.
Estimated production for coming year	30000 "
Average number of men employed	47

Shaft at west end was sunk 35 feet on underlay of 45°, making present extreme vertical depth 500 feet.

The western part of this mine was shut down in June 1892. At this time we were about ready to drive west after the ore shown up by diamond drill holes.

This mine has been practically exhausted for several years, but have been in hopes of finding something of value, and have kept up our diamond drill and other exploratory work. During past year two diamond drill holes were bored.

Quite a large amount of good ore remains in pillars towards eastern end of this mine, and during year a contract was let to Mr. R. J. Williams for their removal. Price per ton is for ore delivered on railroad cars, and contractor assumes all risk.

We estimate the ore in these pillars at 125,000 tons. These pillars are being reduced in size, some entirely taken out, and it is the intention of contractor to fill in between the remaining pillars with waste rock from the old Incline Pit, and waste rock from piles on surface. While filling is going in the pillars will be gradually taken out.

No. 3 MINE.

Produced during last year	46789 tons.
Estimated production for coming year	3000 "
Average number of men employed	132

This mine was shut down in June 1892, and no work in mine proper has since been done.

At present eight men are scrambling out some pillars in old part of mine which crushed about thirteen years ago.

Shaft has not been sunk any during year and is 635 feet deep vertically. The water has now raised to 15 feet above the floor of the 3rd level, making it 262 feet deep.

On 2nd, or 350 foot level, have made extension west 80 feet during year, and encountered the 12 feet of ore shown up by diamond drill hole from surface. This ore proves to be flat, and does not appear to amount to much. One machine was working here when mine shut down.

On 3rd, or 387 foot level, all ore has been mined out, and only an underhand stope, cutting out the floor of this level, has been working lately.

On 4th, or 440 foot level, no lateral extensions have been made during year, and we think limits of ore body on this level have been reached. Have been mining out the ore above this level with both back stopes and underhand stopes, and enough ore remains to last two machines a year.

On 5th, or 547 foot level, we had at time of shut down five machines at work between this and 4th level. Quite a large amount of ore remains yet to be taken out from this place, there being 107 feet between levels.

On 6th, or 627 foot level and the lowest level in the mine, we have driven west to a point opposite and south of the position of ore body showing on 5th level. We have drilled a number of holes from west end of this level, but have so far failed to find the No.3 Mine ore going so deep.

The holes south have as yet failed to find the ore shown by drill borings made from Incline Pit, and which ore certainly makes even deeper than this level.

Drill work in floor of 5th level, thus far made, proves ore to go down at least 35 feet, and this would itself produce considerable ore.

During the year we drilled 13 exploring holes on 5th and 6 on 6th level.

Amount of ore in sight we estimate at 150,000 tons.

Ore in this mine is taken out by breast, back and underhand stopes.

Contracts in this mine are let at so much a foot for drilling by the machine men, and at so much a skip to a different gang of men who fill and tram the ore. Rock drifting is by the foot.

Total production of Cleveland Hard Ore Mines for the six months worked was 97700 tons, and an average of 248 men were employed.

Captain Harry Wills was Mining Captain, and since mines have closed down he has accepted the position of Superintendent of the Chandler Mine.

CLEVELAND HEMATITE MINE.

Produced during last year	86700 tons.
Estimated production for coming year	72000 "
Average number of men employed	116

Shaft was sunk $181\frac{1}{2}$ feet during year making present depth 1008 feet. Most of the sinking was in jasper, the bottom is quartzite. This shaft is vertical.

All of the ore down to the 725 foot level has been mined out. On this level the timber is sent in for use in stopes below.

On 819 foot level we drove 215 feet to west deposit, and now have the size of both ore bodies fully tested. There still remains thirty five feet above this level to take out in each deposit. We expect this to last us until drift on 1000 foot level reaches the ore.

On 1000 foot level have finished cutting out for plat, and will move our big pump down from level above, and let it heave clear to surface. Have started to drive south to both deposits, and expect as long a drive as on level above, which was 750 to east and 215 feet more, from part way in this drift, to west deposit.

The mine is showing a larger ore body than at any previous time.

The amount of ore in sight we estimate at 100,000 tons.

The ore is all mined by the North of England Caving System, from the top down, the movement of the ground is slow, but irresistible.

Contracts in this mine are let for breaking the ore by the car, we furnishing one Company account wheeler to each pair of miners. Traming from the shutes to shaft is by the car. Sinking and drifting is by the foot.

Mr. Alfred Collick is the Mining Captain, and from long acquaintance with the mine is thoroughly familiar with every portion of it, and with the system of mining used.

LAKE MINE.

Produced during last year	180,000 tons.
Estimated production for coming year	400,000 "
Average number of men employed	275

No.1 shaft has been sunk during year 87 feet, and is well on way to 4th level.

No.2 shaft has not been sunk any, but has been connected during year with the rest of the mine.

On 1st level we have driven west and opened out rooms clear to the Lake Superior line, where ore shows a width of 110 feet. On the west side have put in curves for an electric power tram on both north and south sides of 8th room, and on north side of first room.

Work at present on this level is confined to crossing 26th room, West Side, North Deposit, and driving east and west from 15th room, East Side, This latter drift is for power tram, and are also putting in, for it, curves at the following places:-

1st Room, East Side, North Deposit.
4th " " " " "
11th " " " " "
9th " " " South "

Are also driving from 1st room east to 1st room west by route north of shaft, it being intention to raise up to shaft and put in a rock shute.

On 2nd level have completed the development of the mine to the limit, both east and west. On east side deposit cuts out in diorite, but have

driven to and made connection with No.2 shaft. At west end have worked as far as Lake Superior line, where ore shows 115 feet wide.

At present are working in the following rooms:-

12th	Room,	North	Deposit,	West	Side,	Raise.
14th	"	"	"	"	"	Stope.
16th	"	"	"	"	"	"
18th	"	"	"	"	"	"
22nd	"	"	"	"	"	"
23rd	"	"	"	"	"	"
4th	"	South	"	"	"	"
7th	"	"	"	"	"	"
8th	"	"	"	"	"	"
10th	"	"	"	"	"	Raise.
13th	"	"	"	"	"	Stope.
21st	"	"	"	"	"	"

On 3rd level, sunk to during year, we have partially crossed the ore. At present are still driving south through the ore body and going east in ore. We are opening out the 1st room, North Deposit, East Side, to provide a place in which to waste rock.

The amount of ore now in sight we figure as 5,367,430 tons, making 1,368,720 additional shown up during past year. The deposit contains considerable jasper and paint rock, and, so far, rooms figure up just 10% waste.

Everything is worked by square sets, the timber being framed by machinery in our own mill. Contracts are all let by the foot.

During year have added to height of shaft house, and put the 12 foot first motion hoisting plant to work.

Have added to stock pile room, and expect to keep our steam shovel and fifty men at the work most of the winter.

During the year, by the courtesy of the Pittsburgh & Lake Angeline Iron Co., we have been permitted to conduct a diamond drill exploration from their shaft on south side of lake, and the five holes bored have in all cut 421 feet of ore, giving a total average of 65.22% iron and .024% phosphorus. Two of above holes do not show in our book of maps, as they have been bored since December 1st.

We have now moved on top and on bed of lake in line with our shaft. Are now putting down a series of vertical holes to locate most favorable place to sink a shaft.

During the year the water of Lake Angeline has been removed, only to find the thinnest kind of a mud bottom 40 feet deep over our mine. The water will have to be drained out of this mud during the coming year. A break would be disastrous to our mine, as a very large amount of water is contained in the mud.

Mr. J. H. Reed is Mining Captain. He is the best timberman in the district and keeps everything safe.

LAKE BANCROFT EXPLORATION.

During year put down a small shaft to the ledge, and drilled a vertical hole from the bottom of it that went down 618 feet, the last 245 feet being siderite. A stand-pipe was put down south of this, and hole put down a short distance in diorite. This with previous work done on this tract makes it reasonably certain that no ore exists where we intended to plat lots, and have since done so. In all 128 lots were platted as the Cleveland Iron Mining Co's second addition, and of these 63 lots have been sold.

JOINT EXPLORATION WITH JACKSON IRON CO.

One drill hole put down on line between the property of the two Companies reached a depth of 691 feet, and got stuck in lean ore. Another hole is now being bored.

OPTIONS.

Option No.11, being first the Company has granted, was of land in Section 11 east of the Lake Mine, and over a thousand dollars has been put into test pits. Considerable lean ore was shown up. Option is now abandoned.

Option No.15, being second the Company has granted, was of land in Section 2 near Union Park, and is still working. No ore has yet been found. Shaft at present is in paint rock. Fifty dollars was charged for each of the above options.

SUMMARY OF ALL THE MINES OF THE CLEVELAND IRON MINING CO.

Produced during last year	364,400 tons.
Estimated production for coming year	505,000 "
Amount of ore in sight	5,842,430 "
Average number of men employed	658

Respectfully submitted,

F. Mills
Agent.

CLEVELAND IRON MINING CO.

Report of Ore Mined and Shipped from November 21st 1897, to November 30th 1897

TONS ORE MINED.

	No. 3 MINE.	No. 3 VUGGY.	MORO No. 1.	MORO No. 2.	INCLINE MINE.	INCLINE Williams	Wire & Co.	TOTAL HARD ORE.	LAKE MINE.	HEMATITE MINE.	Total Hematite Ore.	GRAND TOTAL.
ing Week,			1			716	200	917	9674	1956	11630	18547
us for Month,						1515	268	1783	14976	3744	18670	20453
Total for Month,	0	0	1	0	0	2231	468	2700	24600	5700	30300	33000
ing Year from Dec. 1, 1897	40705	3965	8288	24737	2072	17609	2119	97495	171939	71700	243639	341134
tock Dec. 1, 1897	13451	2300	2217	7913	1760			27611	10733	35579	46352	73863
<i>6 excess for years</i>					205			205	8061	15000	15000	15000
<i>excess for years</i>										8061	8061	8266
Total,	54126	6265	10505	30650	4037	17609	2119	125311	190733	122219	312952	438263
ments to Date,	23122	6265	10505	13491	4037	13362	1100	71882	188439	50586	239085	310907
alance on Hand,	31004	0	0	17159	0	4247	1019	53429	2294	71633	73927	127356

TONS ORE SHIPPED.

	DURING WEEK.				TOTAL FOR WEEK.	TOTAL FOR MONTH.	TOTAL FOR YEAR.	AVERAGE DAILY HOIST.		
	TO MARQUETTE.	TO ESCANABA.	TO PIONEER FURNACE	TO OTHER FURNACES				WEEK.	MONTH.	YEAR.
	No. 3 Mine,									23122
No. 3 Vuggy,						6265	No. 3 Vuggy,		25	
No. 1,						10505	Moro No. 1,		50	
No. 2,						2254	" " " " as Moro No. 2,		139	
Incline Mine,						127	11237	Moro No. 2,		10
Incline,							4037	Incline Mine,		70
							13362	Incline, Williams	90	93
							1100	Wire & Co. #3	25	19
Total Hard Ore,					0	127	71882	Total Hard Ore,	115	112
No. 3 Mine,	2955	3441	0	984	7380	22338	188439	Lake Mine,	1209	1025
Hematite Mine,		1			1	6043	50586	Hematite Mine,	219	237
Total Hematite Ore,	2955	3442		984	7381	28381	239085	Total Hematite Ore,	1478	1262
for Week,	2955	3442	0	984	7381					
" Month,	8380	17340	0	2788		28508		Grand Total,	1243	1374
" Year,	52240	198151	7447	53069			310907			1464

CLEVELAND IRON MINING CO.

ORE MINED AND SHIPPED

FROM

November 21st 189 ✓

TO

November 30 189 ✓

CLEVELAND IRON MINING CO.

ORE MINED AND SHIPPED

FROM *November 21st* 189 *r*
To *November 30th* 189 *r*

Ishpeming, Oct, 11th, 1897.

R. C. Mann, Auditor,

Cleveland, Ohio,

To Escanaba dock one twenty five naught twenty seven (125027)

Pioneer Furnace (Negaunee) seventy four forty seven (7447)

A. J. Yungbluth.

Confirmation of telegram giving shipments from Lake mine for season
of 1892, via C. & N. W. Ry.

Form No. 168.

THE WESTERN UNION TELEGRAPH COMPANY.

INCORPORATED

21,000 OFFICES IN AMERICA. CABLE SERVICE TO ALL THE WORLD.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assented to by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after the message is filed with the Company for transmission.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, President and General Manager.

635

RECEIVED at Cleveland, O.

Cor. Water and Superior Streets.

241 CH QN MK 16 Paid

Standard Time.

Ishpeming, Mich., Oct 11-97.

R. C. Mann,

Audr., Cleveland, O.

To Escanaba docks 125027

to Pioneer furnace 7447.

A. J. Yungbluth. 2 43 p.

*Are shipped from Lake Mine
via G. & N. W. Ry 1892*

RECEIVED
JAN 19 1898

Cleveland Iron Mining Co.,

Ishpeming, Michigan.

Jan 16" 1898

R. C. Mann Esq. Auditor
Cleveland, Ohio

Dear Sir:

We enclose herewith corrected cost sheet of Hematite Mine for year ending Nov. 30/92. Will you kindly destroy the one previously sent.

Yours truly

Cleveland Iron Mining Co.

Chas. B. Paul and.

ack 1/19

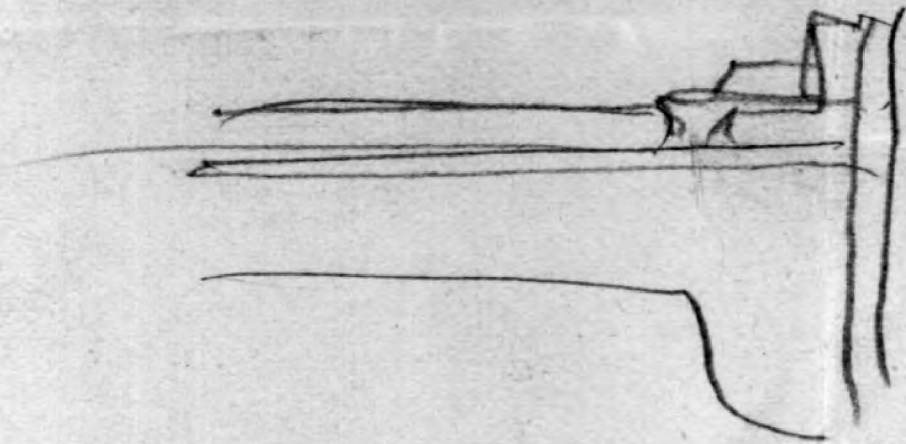
CLEVELAND IRON MINING CO.

Mining Cost
Siderite

Month of Year ending Nov 30 1892

Does this "excess"
mean of this year
or of past years

It does not seem
clear to me



CLEVELAND IRON MINING CO.

Hematite Mine
Mining Cost from Dec. 1/91 to Nov. 30/92

	Cost per ton	Am't.
Air Pipes,		1100
Buildings,	017	151237
Blacksmith Shop,		
Carpenter Shop,		
Compressors,	030	262515
Diamond Drilling,		
Docks and Trestles,	001	5030
Expense,	026	226428
Electric Light,		
Exploring,		
Hoisting,	094	815051
House Rents, <i>Repairs</i>	002	19680
Land Rents,		
Laboratory,	005	47110
Loading Ore at Pocket,	004	28974
Loading Stock Piles,	008	72875
Machine Shop,		
Portable Machinery,		
Portable Machinery Repairs,	001	2348
Pumping,	067	588189
Relief Fund,	006	45670
Shafts and Drifts,	119	1037298
Shaft Houses and Skip Roads,	001	4253
Side Tracks,		
Sorting Ore,	008	70674
Surface,	011	96010
Switching,		
Taxes,	011	97429
Teaming,		
Timbering,	099	855804
Wire Rope,		1575
Iron Ore	629	5449400
Nov Stockpile rock	007	60699
Explosives		480
Orill Steel		917
Portable Machy	021	181704
		<hr/>
		116710122450
- Cr. -		
House Rents	004	30750
Land "		3174
Supplies	002	16319
Oil		29
Lumber	001	14978
		<hr/>
	007	65250
		<hr/>
86500 Irons @	116	10057200
71700 " " (Actual Product)	1402	
15000 " Excess (difference per ton)	242	

CLEVELAND IRON MINING CO.

Mining Cost

Hematite Mine

Month of Dec. 1891 to Nov. 30 1892

CLEVELAND IRON MINING CO.

Hematite Mine

Mining Cost from Dec. 1/91 to Nov. 30/92

	Cost per ton	Unit
Air Pipes,		1100
Buildings,	017	151237
Blacksmith Shop,		
Carpenter Shop,		
Compressors,	030	262515
Diamond Drilling,		
Docks and Trestles,	001	5030
Expense,	026	226428
Electric Light,		
Exploring,		
Hoisting,	094	815051
House Rents,		
Land Rents,		
Laboratory,	005	47110
Loading Ore at Pocket,	004	28974
Loading Stock Piles,	008	72875
Machine Shop,		
Portable Machinery,		
Portable Machinery Repairs,	001	2348
Pumping,	067	588189
Relief Fund,	006	45670
Shafts and Drifts,	119	1037298
Shaft Houses and Skip Roads,	001	4253
Side Tracks,		
Sorting Ore,	008	70674
Surface,	011	96010
Switching,		
Taxes,	011	97429
Teaming,		
Timbering,	099	855804
Wire Rope.		1575
<i>Iron Ore</i>	629	54494-
<i>new stockpile dock</i>	007	60699
<i>House Repairs</i>	002	19680
<i>Explosives</i>		480
<i>mill Steel</i>		917
<i>Portable Machy</i>	021	181704
		<hr/>
		116710122450
<i>— Cr. —</i>		
<i>House Rents</i>	004	30750
<i>Land "</i>		3174
<i>Supplies</i>	002	16319
<i>oil</i>		29
<i>Lumber</i>	001	14978
<i>86700 Tons Ore</i>	007	65250
		<hr/>
		11610057200

CLEVELAND IRON MINING CO.

Mining Cost

Hematite Mine

Month of Dec. 1/91 to Nov. 30 1892

CLEVELAND IRON MINING CO.

Lake Mine

Mining Cost Dec. 1/91 to Nov. 30/92

		Cost per ton	Unit.
Air Pipes,		006	1 213 37
Buildings,	M	008	1 390 94
Blacksmith Shop,			
Carpenter Shop,			
Compressors,		011	1 982 35
Diamond Drilling,		006	1 105 93
Docks and Trestles,	gr	019	3 528 85
Expense,		023	4 088 95
Electric Light,			
Exploring,			
Hoisting,		065	11 671 72
House Rents,			
Land Rents,			
Laboratory,	gr	009	1 570 80
Loading Ore at Pocket,	S	005	9 212 3
Loading Stock Piles,	S	021	5 562 76
Machine Shop,			
Portable Machinery,			
Portable Machinery Repairs,			
Pumping,		037	6 640 31
Relief Fund,	gr	006	1 141 80
Shafts and Drifts,		126	2 271 205
Shaft Houses and Skip Roads,	gr	049	8 870 48
Side Tracks,	M	001	1 808 2
Sorting Ore,	S	005	9 168 3
Surface,	gr	020	3 682 72
Switching,			
Taxes,	gr	007	1 210 00
Teaming,			
Timbering,		184	3 306 132
Wire Rope.		004	6 531 0
Iron OTC		749	1 347 39 06
New Hy. Plant Bldg.		029	5 149 62
J. C. M. + Mill "		017	3 030 01
New Eng. House		014	2 561 72
New Hy. Plant		066	11 959 35
J. C. M. + Mill		069	12 338 48
Supplies		002	3 722 4
Explosives			2 364
oil			210
Drill Steel			242
Lumber		003	5 052 9
Portable Machinery		009	
180000 Iron Ore			

CLEVELAND IRON MINING CO.

Mining Cost
Lake Mine

Month of Dec. 1/91 to Nov. 30 1892

ANNUAL REPORT OF THE PRESIDENT OF THE CLEVELAND IRON MINING CO. TO THE
STOCKHOLDERS JANUARY 25TH, 1893.

PHYSICAL CONDITION.

HARD ORE MINES:

Production from November 30th, 1891, to middle of June, 1892, at which time all hard ore mines were shut down owing to depression in prices:

"Moro",.....	31,025 tons.
"Incline",.....	19,886 "
"No.3",.....	46,789 "
Total ,.....	97,700 "

Pumps at this time were also stopped and the water has risen to a depth in -

"Moro",.....	448 feet.
"No.3",.....	262 "

Total vertical depth of each mine being respectively -

"Moro",.....	708 feet.
"No.3",.....	635 "
"Incline",.....	500 "

In the "Incline" the pumps are kept going, as a contract has been let to Mr. R. J. Williams, once our mining captain, to remove the ore remaining in the pillars of the east end. The amount remaining in these pillars is now estimated by Mr. Mills to be about 125,000 tons. In the east end of the "No.3" mine a gang of eight men are also scrambling the ore out from some pillars which were crushed when the mine caved in some thirteen years ago. The men employed in both these contracts were good and old employees of this company, who did not want to leave town at the time the mines closed down; consequently, we entered into these contracts with them. The contract was let at a reasonable figure, although under present conditions but little profit will be realized from this work. There is still between one and two years more production in sight in these mines, and a possibility of the deposits still continuing, so that an annual production of 150,000 tons, more or less, could be kept up for some years. As indicated, however, in previous reports, the quality of this product is

Cleveland Iron Co.

Jan 25 1893

constantly deteriorating, and under existing conditions of the market the average price that we could receive for this ore would not yield any profit, and might result in a loss. Until, therefore, the price of this ore rises, or until some changes occur which will enable us to put it in the market at a considerably less cost than now maintains, it will be unprofitable to operate these mines.

HEMATITE MINES :-

Production:

"Cleveland Hrmatite",.....	78,700 tons.
Add excess allowed from year ending Nov.30, 1891,.....	8,000 "

Total credited in this year's accounts,	86,700 "

This is the largest product obtained from this mine since we took hold of it in 1882. During the year the shaft was sunk 181 1-2 feet, making the present depth 1,008 feet. The mine is also showing a larger ore body than at any previous time. This increased capacity for production enables us to hold down the ^{cost} ~~price~~ and to somewhat decrease it, as compared with previous years, in spite of the fact that the depth somewhat increases the cost for hoisting and pumping. The quality of this ore remains about the same. As it is only just within the Bessemer limit, it must be sold at a low figure, but there still remains under the present conditions a small margin of profit.

"LAKE" MINE :-

Production: ,..... 180,000 tons.

This is an increase, as compared with the largest previous output, namely for twelve months ending April 30, 1891, of 91,000 tons. During the past year considerable active mining work has been done which has added to the product. In previous years only such ore was taken out as was encountered in development. Development in this mine has now progressed to such an extent that we can, while not neglecting further developing, devote a much greater portion of time to mining; consequently, the product should for the next year be considerably in excess of that produced in 1892.

No. 1 shaft has been sunk during the year 87 feet and is now some distance below the third level. From the collar of the shaft it is a little over 550 feet deep on the incline, and about 410 feet vertical depth from same point. At the lowest point of the shaft it is about 380 feet vertically below the old level of the lake. As indicated in my last annual report, the water in the lake was a menace and on that account it would be unwise to mine freely under those conditions. We have during the past year, in connection with the Lake Superior Iron Co. and the Pittsburgh & Lake Angeline Iron Co., contracted with B.C. Howell to drain the lake. The water was removed to a depth of something over 40 feet, only to find the thinnest kind of a mud bottom remaining to the depth of ^{to 45} 40 feet. This will add much to the cost of completely draining the water out of the lake bed, but the managers of the three companies above mentioned think it is an entirely practicable undertaking, and we hope to be able to report at the next annual meeting that the work has been entirely completed. *The cost of this drainage has not been charged up to the past year's ops. It will appear in the ensuing year.*

The quality of the ore in this mine is nearly all Non-Bessemer, and as the demand for this grade of ore is proportionately much less than in the past, and competition very keen, it is only possible to make a profit therefrom by reducing the cost of mining to the lowest possible point. We are therefore shaping everything at this mine to meet this condition. Our expenditures have been very large, but as a result we have an unusually fine plant of machinery and a well laid-out mine, and think that we are in a condition, or certainly will be when the water is entirely drained from the lake bed, to produce and sell this grade of ore in successful competition with any mine of the Lake Superior region.

EXPLORATIONS -:-

Near Lake Bancroft the explorations of last year have been continued without finding any ore; consequently, we have platted 128 lots in this place, making what is called "The Cleveland Iron Mining Co's Second Addition to the City", and of these, 63 lots have been sold, netting more than sufficient to pay the cost of this exploration, so

that what is received from the remainder of the plat will add to the net cash resources of the company. We have also in connection with the Jackson Iron Co. put down one joint diamond drill hole on the line between the property of the two companies, which ran a depth of 691 feet and there became stuck in lean ore. Another hole is now being bored in this locality. We cannot yet tell whether anything favorable will result from this work. We also bored some holes, through the courtesy of the Pittsburgh & Lake Angeline Iron Co., from the bottom of their shaft on the south side of Lake Angeline, which proved up some ore on our side of the line. We are now continuing this work in order to find out whether it will pay to sink a new shaft to reach this deposit.

Under the plan of Options and Leases which were last year adopted by this company, in connection with the Iron Cliffs Co., two options were given out, - one on land in Section 11, east of the "Lake" mine, called Option No. 11, and over a thousand dollars spent there in test pits; nothing but lean ore was shown up and the option is now abandoned. Option No. 15, being the second, was on land in Section 2, near Union Park, and is still working. No ore, however, has been found.

To sum up, this company produced last year 364,400 tons, which product will probably be increased during 1893. Although the old hard ore mines which heretofore have been the main stay of this company and yielded the greater portion of all their profits, are now practically abandoned, yet through the development of the "Lake" mine, their loss is more than counterbalanced and production has been increased.

C J M C

(5)

SHIPMENTS.

	Hard Ore.	Lake.	Hematite	Total.
Ore on hand at Mine Nov.30,1891,	27,611	10,733	35,519	63,863
Mined during year,.....	97,700	180,000	86,700	364,400
T o t a l ,.....	125,311	190,733	122,219	438,263
Shipped during 1892,.....	71,882	188,439	50,586	310,907
Total left on hand Nov.30,1892, at the Mines,.....	53,429	2,294	71,633	127,356

REGENT LINEN W.S. & B.

VESSEL OPERATIONS.

	PONTIAC.	FRONTENAC.
Days in Commission,.....	226	229
Round Trips made,.....	32	32
Cargoes Carried,.....	34	32
Gross Tons Carried,.....	78,483	80,269
Escanaba Ore Freight,- Per Gross Ton,.	90¢	90¢
Marquette " " " " "	\$1.10	\$1.10
No. Marquette Ore Cargoes,.....	27	
No. Escanaba " " " " "	3	31
Receipts from Freight,.....	\$84,331.21	\$73,410.00
Total Disbursements,.....	47,114.04	45,744.39
	-----	-----
Total Net Earnings,.....	\$37,217.17	\$27,665.61
Average Rate per gross ton carried,...	\$1.0745	\$.9145
Average Cost per gross ton carried,...	.6003	.5698
	-----	-----
Net Receipts per gross ton carried,.	\$.4742	\$.3447

COMPARISONS:

	FRONTENAC:	
	1891.	1892.
Average Rate per gross ton carried,	\$.856	\$.914
Cost Per Ton,.....	.637	.569
	-----	-----
Net Earnings Per Ton,.....	\$.219	\$.344
Total Net Earnings,.....	\$13,875.63	\$27,665.61
Gain for 1892,.....		\$13,789.98

Total Earnings(Net),both Steamers,.....	\$64,882.78
Deduct annual charge for depreciation six per cent on \$400,000.,.....	\$24,000.
Interest on Bonds,.....	19,740.

	43,740.00

B a l a n c e ,.....	\$21,142.78

The vessels now stand in our assets at a valuation of \$312,000. It may not be necessary hereafter to deduct quite such a large annual percentage for depreciation. It will be desirable during the ensuing year to expend some money on one or both of our boats in the way of giving them additional strength. The two serious disasters happening to steel ships during the past year, makes it advisable for us to spare no pains to give our vessels such strength as will enable them to stand all reasonable strains.

Iron Cliffs Co	Cliffs Co	Sal	Notes	Balance
On hand at Mine Nov 30/91	14914	6957	71890	143761
Mined during year	184000	145900	23400, 8456	861726
<u>1991</u>	198914	152857	45290, 8456	105507
Shipped in 1892	14543	151602	14804	289395
On hand Nov 30/92	54371	1255	30486	116112

To be read in the Churches, by permission of the Bishop,

G. T. BEDELL.

COMMITTEE ON
EPISCOPATE ENDOWMENT FUND,
DIOCESE OF OHIO.

Mr. S. L. Mather.	Rev. R. L. Ganter, D.D.
Mr. M. A. Hanna.	Rev. F. B. Avery.
Mr. A. H. Moss.	Rev. E. R. Atwill, D.D.
Mr. H. S. Walbridge.	Rev. C. S. Bates, D.D.
Mr. D. S. King.	Rev. Y. P. Morgan,

DEAR SIR :

It is earnestly desired that at the next Convention of the Diocese, meeting at Massillon, June 14th, the Committee on the Episcopate Endowment Fund be able to report active interest and practical results in the shape of a substantial offering of at least \$50,000. Your assistance is respectfully requested in raising this sum by making a collection in your Parish on or before Trinity-Sunday, and by such *personal solicitation* as you may be disposed to give to an effort so well worth your heartiest co-operation. The Bishop of the Diocese has, from time to time, made earnest appeals in behalf of the Episcopate Fund, which he says, "is of less importance to an able Parish than to one of feeble strength; and its object is chiefly to relieve the smaller Parishes. It is difficult to give congregations an idea of the necessity for, or of the exigencies and labors of the Episcopal Office, or indeed of their share of the value of it. Nor is it possible under any rule of assessment to proportion the burden fairly between the people of almost no means and the wealthier churches of a Diocese. To the existence of a convention assessment is largely due the minimised idea of the Episcopal Office in so many Parishes of our Diocese. There is no possible correction except the creation of an Episcopal Fund, the income of which, after it shall have realized \$50,000, should first relieve the feebler Parishes. It should be created by large donations from wealthy and generous church people. It should be sustained and increased by annual collections in every Parish, and the Clergy should explain the object and enforce it." So great is the urgency of this appeal that a prompt response is absolutely necessary. Please send the offerings of your Parish to the Chairman at the earliest possible date in order that the matter may be fully reported at next Convention.

Faithfully yours,

SAMUEL L. MATHER,

Chairman of Committee.

CLEVELAND IRON MINING CO.

Extraordinary Expenses charged up to Operating Account during 1892:

o*****o

New Hoisting Plant at "Lake" Mine,	\$17,108.97
New Engine House,	2,561.72
Timber Cutting Mill and Additions,	15,368.79
Draining Lake Angeline,	16,906.67
Steamer Depreciation,	<u>24,000.00</u>
T o t a l ,	<u>\$75,946.15</u>

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

Fred. A. Morse, ...
J. H. Sheadle, Secretary

The Cleveland-Cliffs Iron Co.

Dealers in all varieties of
 Lake Superior Iron Ores and Charcoal Pig Iron
 from their own Mines & Furnaces.

Offices: 2nd Floor
 Mercantile Bank Building. Cleveland, Ohio.

Comparative Manufactured Prices for on hand - 1891 & 1892.

	C. J. M. Co		At Mine				
	Clad Hard ore	Hematite	Lake	Barnum	C. Sh.	Sel.	Footer
1891	2.00	1.90	2.00	1.53	1.50	1.20	1.55
1892	1.70	1.27	1.58	1.38	1.38	.915	1.27

At Lake Erie Ports

	C. J. M. Co						Barnum	C. Sh.	Sel. Cess	O. M. B.	Pioneer	A. K. L.	2
	Nov.	Dec. 1st	J. No.	Mar.	Lake	Cess							
1891		3.75	3.60	4.	3.50		4.50	4.	4.	4.	3.50		
1892	3.75	3.35	3.20		3.15	4.	3.75	3.40	3.50	3.75	3.	3.60	3.20

Average Sales Price

	At Mine					
	Hard ore	Hem.	Lake	Barnum	C. Sh.	Sel.
1891	2.45	2.15	2.18	3.15	2.50	2.60
1892	1.98	2.55	2.08		2.70	2.40

at Lake Erie

1891	4.02	3.85	3.50		4.	4.15
1892	3.38		3.31	4.20	3.49	3.97

Iron Cliffs Co

	<u>at Mine</u>	<u>at L. & Port</u>
Cliff Shaft Ore	2.50 2.70	4.00 3.49
Barnum	3.15	4.20
Salisbury	2.60 2.40	4.15 3.97
Foster	1.53	

C. I. M. Co

	<u>at Mine</u>	<u>at L. & Port</u>
Hard Ore	2.45 1.98	4.02 3.38
Lake	2.18 2.08	3.50 3.31
Hem:	2.16 2.55	3.85

Figures in red ink denote the average price of sales in 1891

Cleveland Iron Mining Co.

*Report of the President
Year 1892.*

Summary of Income Account for the year ending November 30th 1892.

Recapitulation		Hard Ore Mine.	
Profit Operating Hard Ore Mine	2855058		
" " Magnetite "	4386375		
" " Steamers "	1681446		
Received from Options	5000		
Suspense Account	1730818		
		10658697	
Loss Operating Lake Mine	2586623		
Loss on Pig Iron	201040		
General Expenses, Salaries &c	1030770		
Insurance, Marquette Property	2625		
Taxes " "	11952		
		3833010	
Net Profit for the Year ending Nov 30 th 1892.			6825687
			29228610
			3042633
			32271243
			20126200
			31768
			1710176
			1979842
			47875
			63113
			195691
			9478
			834050
			19240
			20900
			213835
			4164017
			9289985
			29416185
			2855058

Note: The Suspense Account is made up of errors in the accounts for the year, as follows

Errors 1892	Omitted by us	2532170
Account with R.F. Williams; credited by us to Mine account		521839
" " Wm. Newell & Co		23
Debit on Coal from Richards & Co credited by us on L.S.M. Co's books, should be on S.M. Co's books		11810
		3065842
Less		
Balance of Taxes 1892; Omitted by J.P. Mills		1190000
Claiming Lake (Expenses); added by us to Operating Mine		23629
Jackson Iron Mining Co; " " " " "		16777
Real Estate 2 ^d Addition " " " " "		104618
		1335024
Balance		1730818

ORE SHIPPED AND ORE DUE.

DAILY REPORT.

ESHPEMING, MICH., 6 p.m., Nov. 30 1892

CLEVELAND IRON MINING CO.

IRON CLIFFS CO.

CLEVELAND IRON MINING CO.										IRON CLIFFS CO.												
TONS SHIPPED		Bessemer	No. 1	Scotch	Fine	Fine Scotch	Vuggy	Lake		Hematite	Total	Old Mine Barnum	Barnum	Cl. Shaft	Salisbury	Salisbury Bessemer	Foster	Fitch No. 1	Fitch No. 2	Total	TONS SHIPPED	
Ashland Iron & Steel Co.,														1441							1441	Ashland Iron & Steel Co.,
Antrim Iron Co.,			455		8016			15027		8099	31577						10760				10760	Antrim Iron Co.,
Detroit Iron Furnace Co.,																						Detroit Iron Furnace Co.,
Elk Rapids Iron Co.,			11092					6675	11184		28951		42				3850				3850	Elk Rapids Iron Co.,
Eureka Iron & Steel Co.,																						Eureka Iron & Steel Co.,
Gaylord Iron Co.,			5009								5009				5935						5935	Gaylord Iron Co.,
Illinois Steel Co.,															24005	50037					74037	Illinois Steel Co.,
Martel Furnace Co.,					7172			338	6494		9004						407				407	Martel Furnace Co.,
Newberry Furnace Co.,						699			6014		6713											Newberry Furnace Co.,
Peninsular Iron Co.,			4352								4353					5380					5380	Peninsular Iron Co.,
Pioneer Furnace,									7447		7447	1558		397	7823		735				10513	Pioneer Furnace,
Spring Lake Iron Co.,																						Spring Lake Iron Co.,
Union Iron Co.,			7981			7556					5537				5349						5349	Union Iron Co.,
Vulcan Furnace Co.,																						Vulcan Furnace Co.,
<i>Western Iron Co</i>						40					5775										5775	
<i>Carbide Steelmaking Co</i>						51					51										51	
Toledo.																						Toledo.
Sandusky,								7458			7458											Sandusky,
Lorain,		1133									1133											Lorain,
Cleveland,			846	5077		10131		45019		5098	66171		24896	44430	3158	22148					94437	Cleveland,
Fairport,																					57672	Fairport,
Ashtabula,		4852	76	994		111		94996			101079		22253	17524	10040		1650	6796			55523	Ashtabula,
Erie,																						Erie,
Buffalo,																						Buffalo,
Total by Vessel and all Rail,		5785	17478	19191	10188	13537	7013	188439		13177	77528	1558	24896	88596	69174	19892	15752	1650	6796		328336	Total by Vessel and all Rail,
In Docks and Cars,																	396				396	In Docks and Cars,
Total from Mines,		5785	17478	19191	10188	13537	7013	188439		13177	77528	1558	24896	88596	69174	19892	16148	1650	6796		328732	Total from Mines,
TONS DUE		Bessemer	No. 1	Scotch	Fine	Fine Scotch	Vuggy	Lake		Hematite	Total	Old Mine Barnum	Barnum	Cl. Shaft	Salisbury	Salisbury Bessemer	Foster	Fitch No. 1	Fitch No. 2	Total	TONS DUE	
Ashland Iron & Steel Co.,			658							38					38	37371					37409	Ashland Iron & Steel Co.,
Antrim Iron Co.,																						Antrim Iron Co.,
Detroit Iron Co.,											37371											Detroit Iron Co.,
Elk Rapids Iron Co.,											5058						1224				1224	Elk Rapids Iron Co.,
Eureka Iron & Steel Co.,																						Eureka Iron & Steel Co.,
Gaylord Iron Co.,															266						266	Gaylord Iron Co.,
Illinois Steel Co.,															508						508	Illinois Steel Co.,
Martel Furnace Co.,																						Martel Furnace Co.,
Newberry Furnace Co.,																						Newberry Furnace Co.,
Peninsular Iron Co.,																						Peninsular Iron Co.,
Pioneer Furnace,																						Pioneer Furnace,
Spring Lake Iron Co.,																						Springfield Iron Co.,
Union Iron Co.,																						Union Iron Co.,
Vulcan Furnace Co.,															46						46	Vulcan Furnace Co.,
<i>Western Iron Co</i>											4266										4266	
Toledo.																						Toledo.
Sandusky,																						Sandusky,
Lorain,																						Lorain,
Cleveland,																						Cleveland,
Fairport,																						Fairport,
Ashtabula,																						Ashtabula,
Erie,																						Erie,
Buffalo,																						Buffalo,
Total.				4266							4266				870		1224				2044	Total.

ORE SHIPPED AND ORE DUE.

Corrected

DAILY REPORT.

ISHPEMING, MICH., 6 p.m.

Dec. 30th 1892

CLEVELAND IRON MINING CO.

IRON CLIFFS CO.

TONS SHIPPED	Cleveland Iron Mining Co.								Iron Cliffs Co.										TONS SHIPPED
	Bessemer	No. 1	Scotch	Fine	Fine Scotch	Vuggy	Lake	Hematite	Total	Old Mine Barnum	Barnum	Cl. Shaft	Salisbury	Salisbury Bessemer	Foster	Fitch No. 1	Fitch No. 2	Total	
M Ashland Iron & Steel Co.,												1441						1441	Ashland Iron & Steel Co.,
N Antrim Iron Co.,		455		8016			15077	8099	31577						10760			10760	Antrim Iron Co.,
Detroit Iron Furnace Co.,																			Detroit Iron Furnace Co.,
Elk Rapids Iron Co.,		11092					6675 11184		78951		422				3850			3892	Elk Rapids Iron Co.,
Eureka Iron & Steel Co.,																			Eureka Iron & Steel Co.,
Gaylord Iron Co.,		5009						5009					5935					5935	Gaylord Iron Co.,
Illinois Steel Co.,												22005	50037					74042	Illinois Steel Co.,
R Martel Furnace Co.,				7172			338 6494		9004						407			407	Martel Furnace Co.,
R Newberry Furnace Co.,					699		6014		6713										Newberry Furnace Co.,
Peninsular Iron Co.,			4353						4353				5380					5380	Peninsular Iron Co.,
R Pioneer Furnace,							7447		7447	1558		397	7873		734			10512	Pioneer Furnace,
Spring Lake Iron Co.,																			Spring Lake Iron Co.,
Union Iron Co.,			7981		7856				5537				5349					5349	Union Iron Co.,
Vulcan Furnace Co.,																			Vulcan Furnace Co.,
Western Iron Co. Carolina Steelworks			5735		40				5775										
Toledo.																			Toledo.
Sandusky,							7458		7458										Sandusky.
Lorain,	1133								1133										Lorain.
Cleveland,		846	5077		10131		45119	5098	66171		24896	44130	3911	78354				98391	Cleveland.
Fairport,											20025			37647				57672	Fairport.
Ashtabula,	4852	76	994		111		94996		101029		74503	16771	6824		1650		6796	54524	Ashtabula.
Erie,																			Erie.
Buffalo,																			Buffalo.
Total by Vessel and all Rail,	5985	17478	19191	10188	13537	7013	188439	13177	775008	1558	24938	88596	69174	119872	16751	1650	6796	378335	Total by Vessel and all Rail.
In Docks and Cars,															397			397	In Docks and Cars.
Total from Mines,	5985	17478	19191	10188	13537	7013	188439	13177	775008	1558	24938	88596	69174	119872	16751	1650	6796	378732	Total from Mines.
TONS DUE	Bessemer	No. 1	Scotch	Fine	Fine Scotch	Vuggy	Lake	Hematite	Total	Old Mine Barnum	Barnum	Cl. Shaft	Salisbury	Salisbury Bessemer	Foster	Fitch No. 1	Fitch No. 2	Total	TONS DUE
Ashland Iron & Steel Co.,																			Ashland Iron & Steel Co.,
Antrim Iron Co.,																			Antrim Iron Co.,
Detroit Iron Co.,																			Detroit Iron Co.,
Elk Rapids Iron Co.,															1224			1224	Elk Rapids Iron Co.,
Eureka Iron & Steel Co.,																			Eureka Iron & Steel Co.,
Gaylord Iron Co.,													266					266	Gaylord Iron Co.,
Illinois Steel Co.,													508					508	Illinois Steel Co.,
Martel Furnace Co.,																			Martel Furnace Co.,
Newberry Furnace Co.,																			Newberry Furnace Co.,
Peninsular Iron Co.,																			Peninsular Iron Co.,
Pioneer Furnace,																			Pioneer Furnace,
Spring Lake Iron Co.,																			Spring Lake Iron Co.,
Union Iron Co.,													46					46	Union Iron Co.,
Vulcan Furnace Co.,																			Vulcan Furnace Co.,
Western Iron Co.			4266						4266										
Toledo.																			Toledo.
Sandusky,																			Sandusky.
Lorain,																			Lorain.
Cleveland,																			Cleveland.
Fairport,																			Fairport.
Ashtabula,																			Ashtabula.
Erie,																			Erie.
Buffalo,																			Buffalo.
Total.			4266						4266				870		1224			2044	Total.

Shows simply change Kelianga B/L No 26 from Ashtabula to Cleveland
" " " " " " " " " " " "

Cleveland Iron Mining Co Statement of Ore on hand

	Hard Ore	Lake Ore	Hematite Ore	Total		
On hand unsold at Mines Nov 30 th 1891	29,121	10,733	35,519	75,373		
" " L. E. Ports " "	80,165 ¹⁶⁸⁰	4,771	2,251	87,187 ¹⁶⁸⁰		
Produced during the year ending Nov 30 th 1892	97,700	180,000	86,700	364,400		
Cancelled orders - Dunbar Furnace Co -		5,600		5,600		
" " Ohio Iron & Steel Co -	7,707 ¹⁰⁶⁵			7,707 ¹⁰⁶⁰		
Purchased of Iron Cliffs Co Barnum	2,899 ¹⁸⁶⁰			2,899 ¹⁸⁶⁰		
" " Salisbury			1,761	1,761		
" " Foster	561 ⁸⁴⁰			561 ⁸⁴⁰		
" Wm R. Hart & Co	10,444			10,444		
Over runs at Lake Erie Ports	18 ²¹⁹⁰		100	118 ²¹⁹⁰		
Total	228,618	196,810	126,331	551,759		
Sold during the year ending Nov 30 th 1892	95,665	177,545	54,698	327,908		
	132,953	19,265	71,633	223,851		
Delivered to Ohio Iron & Steel Co to replace Hard Ore		5,706		5,706		
Total on hand unsold Nov 30th 1892	132,953	13,559	71,633	218,145		
The unsold Ores lie at { <table style="display: inline-table; vertical-align: middle; margin-left: 10px;"> <tr> <td style="font-size: 3em; vertical-align: middle;">{</td> <td style="vertical-align: middle;"> Mines & Less amt due Weston Co L. E. Ports Less amt due McLoughlin </td> </tr> </table>					{	Mines & Less amt due Weston Co L. E. Ports Less amt due McLoughlin
{	Mines & Less amt due Weston Co L. E. Ports Less amt due McLoughlin					
	53,429	2,294	71,633	127,356		
	4,224			4,224		
	49,205			49,205		
	79,524	11,265		90,789		
	73,524			73,524		
Total on hand unsold Nov 30th 1892	132,953	13,559	71,633	218,145		
	122,729			122,729		

1000
 0000
 2000
 500

Cleveland Iron Mining Co.

Cre Statement
Year ending November 30th 1892

C. I m
A/cs Receivable

C. I m Co
Accounts Payable

Pitts & Lake Agency I. Co	457335
Lake Superior Iron Co	845333
Society for Savings	54290
Mer Nat Bank	17414
W ^m G. Matter	1829
J H Sheddle	40
Accounts Receivable at Mar	112924
Agents Drafts Payable	4000000
Brier Hill Iron & Coal Co	1800000
La Belle Iron Works	6160
Talk Paper Iron Co	3309819
Autumn Iron Co	1830887
Union Iron Co	440144
Layford Iron Co	654649
Western Supply Agency	1450
Struther Ice Co	86356
Andrew Bros Co	2702944
Pennular Iron Co	409943
Market Ice Co	960451
W ^m R Hart & Co	1360214
Michigan Co	14551
St Clair S. I. Co	16060
Pear & Plam	496
M ^r Cornish & Co	1950000
Union Rolling Mill Co	4345834
Minneapolis Ice	8991337
Weston Ice Co	356587
Lumber Ice Co	728790
Iron Cluff Co	1709535
Newbern Ice Co	140852
Brown Bomble Iron Co	5792500
Clinton Iron & Coal Co	3611957
Grand Iron Co	3115288
	49825999
Land Contracts	66570
Geo Hayden	221782
St. Pontiac Insur ^{ance} 1891	1469430
" " " 1892	270071
" Frontenac " "	123280
	51977132

Unclaimed Miner Wages	34708	✓
Pickands Matter & Co	147641	✓
Benefit Fund H. O. Min	384526	✓
John Jones Coal Co	30825	✓
Benefit Fund Lake Min	269968	✓
Benefit Fund Han Min	107822	✓
Briars Check Cash	101675	✓
Pay Rolls	2845348	✓
Bills Audited	1268571	✓
Jas Pickands & Co	2827532	✓
Unpaid Bond Coupon	9000	✓
Vouchers of	2649314	✓
American Iron Mining Co	85145	✓
Marquette Iron Co	54107	✓
Duff & Catfield	2000	✓
Ed & Smith & Co	61400	✓
Cliff Iron Co	494990	✓
Jas B Lowe	20108	✓
Ship Owners Dry Dock Co	91295	✓
Cliff Ship Repair Co	139790	✓
W. G. Matter	1949096	✓
Hospital	70400	✓
	13345261	
Real Estate 2 nd add	184618	
	13449879	

Bills Payable

14353550

C. I m
A/cs Receivable

C. I m Co
Accounts Payable

Pitts & Lake Agency I. Co	457335
Lake Superior Iron Co	845333
Society for Savings	54290
Mer Nat Bank	17414
W ^m G. Mather	1829
J H Sheddle	40
Accounts Receivable at Mar	112924
Agents Drafts Payable	4000000
Brier Hill Iron & Coal Co	1800000
La Belle Iron Works	6160
Talk Paper Iron Co	3309819
Autumn Iron Co	1830887
Union Iron Co	440144
Layford Iron Co	654649
Western Supply Agency	1450
Struther Ice Co	86356
Andrew Bros Co	2702944
Pennular Iron Co	409943
Market Ice Co	960451
W ^m R Hart & Co	1360214
Michigan Co	14551
St Clair S. S Co	16060
Pear & Plam	496
M ^r Cornish & Co	1950000
Union Rolling Mill Co	4345834
Minneapolis Ice	8991337
Weston Ice Co	356587
Lumber Ice Co	728790
Iron Cluff Co	1709535
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	49825999
Land Contracts	66570
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St. Pontiac Insur ^{ance} 1891	1469430
" " " 1892	270071
" Frontenac " "	123280
	51977132

Unclaimed Miner Wages	34708	✓
Pickands Matter & Co	147641	✓
Benefit Fund H. O. Min	384526	✓
John Jones Coal Co	30825	✓
Benefit Fund Lake Min	269968	✓
Benefit Fund Han Min	107822	✓
Briars Check Cash	101675	✓
Pay Rolls	2845348	✓
Bills Audited	1268571	✓
Jas Pickands & Co	2827532	✓
Unpaid Bond Coupon	9000	✓
Vouchers of	2649314	✓
American Iron Mining Co	85145	✓
Marquette Iron Co	54107	✓
Duff & Catfield	2000	✓
Ed & Smith & Co	61400	✓
Cliff Iron Co	494990	✓
Jas B Lowe	20108	✓
Ship Owners Dry Dock Co	91295	✓
Cliff Ship Repair Co	139790	✓
W. G. Mather	1949096	✓
Hospital	70400	✓
	13345261	
Real Estate 2 nd add	184618	
	13449879	

Bills Payable

14353550

Good

CLEVELAND IRON MINING CO.

ANNUAL STATEMENT.

Received from sales of Hard Ore, as follows:			
Sold at Mine <u>42813</u> <u>250</u> tons @ \$1.98	\$113,376.66		
" "L.E.Pts. <u>52851</u> <u>1950</u> " @ 3.385	178,909.44		
Total Sales <u>95664</u> <u>2200</u> "		\$292,286.10	
On hand at Mine unsold:			
53,429 tons Hard Ore @ \$1.70	\$ 90,829.30		
On hand at L.E.Ports unsold:			
687 tons Clevd.No.1 Ore @ 3.75	2,577.80		
5,925 " Clevd.Bessemer @ 4.00	23,700.00		
34,450 " Scotch @ 3.35	115,409.02		
<u>38,461</u> " Fine Scotch @ 3.20	123,076.01		
<u>132,953</u> " Total on hand unsold Nov.30th,1892,.....		\$355,592.13	
		\$647,878.23	
Less Invent'y Ore on hand unsold Nov.30th,1891,.....		325,165.80	\$322,712.43
Mining a/c for year ending Nov.30,92,	\$287,438.18		
Less Supplies on hand " " "	42,373.10	\$245,065.08	
Rail Transportation,.....		18,503.46	
Ore A/C:			
Lake Transportation,.....		21,177.12	
Analyses,.....	1,129.69		
Penalties and Rebates,.....	1,956.91		
Sorting Ore,.....	478.75		
Iron Ore Assessment,.....	192.40		
Over and Short Lake Freight,.....	75.05		
Cargo Insurance,.....	195.90		
Commissions,.....	5,120.68		
General Expense,.....	2,270.54		
Interest Account,.....	631.13	\$ 12,051.05	
Purchased of Iron Cliffs Co.,.....		2,138.35	
" " Wm.R.Hart & Co., ^{10 444 31}		41,640.17	
Charges on Pig Iron:			
Testing Pig Iron,.....	\$ 2.15		
Taxes on " " ,.....	138.32		
Rail Freight,.....	257.87		
Lake Freight,.....	1,301.41		
Dockage and Handling,.....	175.00		
Depreciation in price of pig iron,	116.55	\$ 1,991.30	\$342,566.53
			\$ 19,854.10
Gain on Lake Mine Ore,.....		\$ 11,645.23	
" " Hematite " ,.....		49,604.90	61,250.13
			\$ 41,396.03
Steamer Earnings for Season 1892,...	\$ 64,882.78		
Less Interest on Bonds, \$19,740.00			
" Opr.a/cs for 1891, 4,011.37			
" Freight Lists Ins. 241.90	\$ 23,993.27		\$ 40,889.51
Carried Forward			

	740.	Lake	Her	Total
Dec 191	2449	2488	2516	7455
Jan 192	2535	2819	1079	6433
Feb	6111	7101	222	13434
Mar	3216	5027		8243
April	2605	7473	4000	14078
May	13031	6567		19598
June	10778	10891	1764	23133
July	11152	22918	844	34914
Aug	9272	22785		32057
Sept	6313	22015	3387	31715
Oct	8819	28093		36912
Nov	7124	18223	2715	28062
	<u>83405</u>	<u>156100</u>	<u>16529</u>	<u>256034</u>

Commissions

Brought Forward,		\$ 82,285.54
Rec'd from Rents during '92, \$10,067.10		
" " Options " " 50.00	\$10,117.10	
Less Taxes on same,\$ 119.52		
" Insurance, 26.25	145.77	\$ 9,971.33
		\$ 92,256.87
Deduct annual charge of 6% on cost of Steamers, (\$400,000.), for depre- ciation,		24,000.00
<u>Total Gain,</u>		<u>\$ 68,256.87</u>

CLEVELAND IRON MINING CO.

LAKE ORE ACCOUNT.

Received from sales of Ore as follows:-			
Sold at Mine	49,871 tons @ \$2.08,	\$103,767.78	
" " L.E.Pts	127,673 " @ 3.31,	422,888.22	
	177,545 " Total Sales		\$526,656.00
Unsold on hand at Mine:			
	2,294 tons @ \$1.58,	\$ 3,624.52	
" L.E.Ports,	11,265 " @ 3.15	35,486.42	
	13,559 "		\$ 39,110.94
			\$565,766.94
Less Invent'y Ore on hand Nov.30th,1891,.....		23,135.50	\$542,631.44
Mining a/c for year ending Nov.30,92:			
		\$269,277.60	
Less Supplies on hand Nov.30,92,..	26,239.73		\$243,037.87
Rail Transportation,.....		84,334.52	
Lake " ,.....		131,106.87	
Ore A/C:			
Cargo Insurance,.....	\$ 587.71		
Cancelled Orders,.....	29,327.89		
Penalties and Rebates,.....	2,164.62		
Iron Ore Assessment,.....	80.00		
Commissions,.....	15,362.04		
Expenses,.....	6,184.62		
Interests,.....	1,893.40		
Draining Lake Angeline,.....			\$ 55,600.28
		16,906.67	\$530,986.21
			\$ 11,645.23

HEMATITE ORE ACCOUNT.

Received from sales of Ore as follows:-			
Sold at Mine	49,698 tons @ \$2.72,	\$131,222.87	
" " L.E.Pts	5,000 " @ 3.60	18,000.00	
	54,698 " Total Sales		\$149,222.87
Unsold on hand at Mine:			
	71,633 tons @ \$1.27,.....		90,973.91
			\$240,196.78
Less Invent'y Ore on hand Nov.30,1891,.....		76,490.10	\$163,706.68
Mining a/c for year ending Nov.30,92:			
		\$100,964.92	
Less Supplies on hand Nov.30,92,	10,074.95		\$ 90,889.97
Rail Transportation,.....		2,502.65	
Lake " ,.....		3,656.50	
Ore A/C:			
Penalties,.....	\$2,136.00		
Iron Ore Assessment,.....	59.31		
Purchased of Iron Cliffs Co.,.....	7,044.00		
Commission,.....	5,120.68		
Expense Account,.....	2,061.54		
Interests,.....	631.13		
			\$ 17,052.66
			\$114,101.78
			\$ 49,604.90

Cleveland Iron Mining Co.

General Balance Sheet; Year ending November 30/1892.

	Nov 30/91	Nov 30/92	Increase	Decrease
<u>Assets</u>				
Real Estate		2,500,000.00		
Personal Property		1,000,000		
Cash on hand		624,394		
Bills Receivable		781,544.4		
Hospital at Lehpeming		81,868		
Cash at Mines		167,082		
Steamer Pontiac		1,681,333.2		
Steamer Frontenac		1,438,666.8		
Stock of Private Signals		1350		
Accounts Receivable		519,771.32		
Hard Ore on hand; Mines		908,293.0		
" " " " L&Perts		2,647,628.3		
Lake " " " Mines		362,452		
" " " " L&Perts		3,548,642		
Hematite " " " Mines		909,739.1		
Supplies on hand		786,877.8		
Pig Iron " "		1,584,100		
		3,999,878.46		
<u>Liabilities</u>				
Capital Stock		2,500,000.00		
Unclaimed Wages		34,708		
Bills Payable		1,438,355.0		
Benefit Fund H O Mine		38,452.6		
" " Lake "		269,968		
" " Hematite "		107,822		
Steamer Bonds		3,200,000.00		
Brass Checks		10,167.5		
Accounts Payable		125,511.80		
Income Account	833,287.30	9,015,441.7	682,568.7	
		3,999,878.46		

Cleveland Iron Mining Co.

Statement of Income Account to November 30th 1892

Income from Nov 30/91	to Nov 30/92
Land Rents, H.C. Mine	724731 ✓
House " " "	248055 ✓
Land " Hematite	3174 ✓
House " " "	30750 ✓
Options	5000 ✓
Earnings Stone Pontiac	8433121 ✓
" " Frontenac	7341000 ✓
Hard Ore sales 57171 ²⁵⁰ Tons @ 1.98	11337666 ✓
52851 ¹⁹⁵⁰ " " 338 1/2	17890944 ✓
Lake " " 49871 ²⁰⁷⁰ " " 208	10376778 ✓
127673 ¹⁵⁰⁰ " " 331	42288822 ✓
Hematite " " 8078 ¹⁸⁹⁰ " " 235	1898528 ✓
46619 ¹⁸⁰⁰ " "	13023759 ✓
Hard Ore on hand, unmod.	35559213 ✓
Lake " " " "	3911094 ✓
Hematite " " " "	9097391 ✓
Supplies Ore hand. H.C.	4237310 ✓
" " " Lake	2623973 ✓
" " " Hematite	2007495 ✓
	170038804
<u>Disbursements from Nov 30/91</u>	
Operating Stone Pontiac	4711404 ✓
" " Frontenac	4574439 ✓
Analyses H.C.	2747 ✓
Penalties " "	195691 ✓
Sorting Ore " "	10350 ✓
Expenses Assessment " "	20900 ✓
19240 ✓	19240 ✓
Penalties, Lake	216462 ✓
Assessment " "	8000 ✓
Penalties Hematite	213600 ✓
Assessments " "	5931 ✓
Interest	✓ 315566 ✓
General Expenses	✓ 1030770 ✓
Rail Freight, Ore	✓ 10534063 ✓
" " Pig Iron	✓ 25787 ✓
Lake " Ore	✓ 15594049 ✓
" " Pig Iron	130141 ✓
Commissions, Ore	✓ 2560340 ✓
Sorting Ore	✓ 37525 ✓
Testing Pig Iron	✓ 215 ✓
Taxes " "	✓ 13832 ✓
Operating H.C. Mine	✓ 28743818 ✓
" Hematite "	32907835 ✓
" Lake "	10096492 ✓
" " "	26927760 ✓
Dockage & Hdly Pig Iron	17500 ✓
amt forwarded	110170039

Cleveland Iron Mining Co.

Statement of Income Account to November 30/92

Brot forward		110170639		
Draining Lake Angelina		1690667	✓	
Insurance		2625	✓	
Taxes		11952	✓	
Analyses	✓	110222	✓	
Bond Interest		1974000	✓	
Frontenac - Operating Acct 1891		229801	✓	
Pontiac " " "		140089	✓	
Pontiac, Improvement		31247	✓	
Over & Short Lake Freight		7505	✓	
Freight List Insurance		24190	✓	
Goods " "		78361	✓	
Big Iron Depreciation		11655	✓	
Hard Ore purchased		4377852	✓	
Lake " " "		213835	✓	
Hematite " " "		2922789	✓	
Hard Ore on hand Nov 30/91		704400	✓	
Lake " " " "		32516580	✓	
Hematite " " " "		2313550	✓	
Depreciation; Steamers		7649010	✓	
		2400000	✓	
		1.63213117		
Net Income		6825687		
Income Acct to Nov 30/91		83328730		
" " " " Nov 30/92		90154417		

C. I. M. Co

Nov^r 30th / 92

1	Capital Stock	✓ X		2500000000	✓				
2	Real Estate	✓ X	250000000		✓			363460269	386016569
3	Personal Property	✓ X	100000		✓				47194779
4	Profit & Loss	✓ X		83328730	✓				5000
7	Cash	✓ X	6243941		✓				
15	Interest a/c	✓ X	3155661		✓				
20	Real Estate 2 nd add	✓ X		104618	✓				
22	Analyses	✓ X	1102221		✓				
26	General Expense	✓ X	10307401		✓				
31	Rail. Freight	✓ X	10559850		✓				
34	Lake Freight	✓ X	15594049		✓				
50	Commissions	✓ X	2560340		✓				
60	Sorting Ore	✓ X	375251		✓				
62	Testing Pig Iron	✓ X	2151		✓				
62	Taxes on Pig Iron	✓ X	138321		✓				
64	Hard Ore Mine	✓ X	26743818		✓				9000
74	Hard Ore a/c	✓ X	7914750		✓				
78	Land Rents H-O	✓ X		724731	✓				
79	House Rents	✓ X		248055	✓				
80	Land Rents H-m	✓ X		3174	✓				
81	House Rents	✓ X		30750	✓				
82	Unclaimed Miners Wages	✓ X		34708	✓				
86	Hematite Mine	✓ X	10096492		✓				85145
90	Hematite Ore a/c	✓ X		6349346	✓				54107
94	Pittsburgh & Lake Superior Iron Co	✓ X	4573351		✓				
94	Lake Superior Iron Co	✓ X	8453331		✓				
101	Bills Receivable	✓ X	7815444		✓				
110	Lake freight on Pig Iron	✓ X	1301411		✓				
110	Dockage & Handling	✓ X	17500		✓				
111	Richard Mather & Co	✓ X		147641	✓				
125	Bills Payable	✓ X		14383550	✓				
136	Benefit Fund H. O. Min	✓ X		384526	✓				
137	John Jones	✓ X		30825	✓				
138	Benefit Fund Lake Min	✓ X		269968	✓				
139	Benefit Fund Ham Min	✓ X		107822	✓				
142	Bond a/c	✓ X		32000000	✓				
144	Pig Iron a/c	✓ X	15957551		✓				
148	Brass check a/c	✓ X		101675	✓				
148	Society for Savings	✓ X	54290		✓				
149	Hospital Lands	✓ X	81868		✓				
150	Land Contract	✓ X	66570		✓				
153	Lake Mine	✓ X	26927760		✓				
			363460269	386016569					
156	Lake Ore a/c	✓ X			✓				
160	Mineral Lands	✓ X			✓				
162	Cost of Draining Lake Anselmi	✓ X	1690667		✓				
163	Wm S. Mather Trustee	✓ X			✓				1949096
164	Pay Rolls	✓ X			✓				2845348
168	Bills Audited	✓ X			✓				1268571
171	Hospital	✓ X			✓				70400
201	Mer Nat Bank	✓ X	174141		✓				
201	Geo Hayden Contingent Fund	✓ X	221782		✓				
206	W.S. Mather	✓ X	1829		✓				
234	J H Sheddle	✓ X	40		✓				
248	Jas Richard & Co	✓ X			✓				2527532
358	F.P. Mills	✓ X	167082		✓				
290	Unpaid Bond Coupons	✓ X			✓				
292	Insurance	✓ X	2625		✓				
293	Taxes	✓ X	11952		✓				
294	Vouchers a/c	✓ X			✓				2649314
297	Accounts Receivable	✓ X	112924		✓				
298	Agents Drafts Payable	✓ X	4000000		✓				
300	American Iron Mining Co	✓ X			✓				
301	Marquette Iron Co	✓ X			✓				
302	Brier Hill Iron & Coal Co	✓ X	1800000		✓				
303	La Belle Iron Works	✓ X	6160		✓				
309	Duff & Galfield	✓ X			✓				2000
318	Bond Interest	✓ X	1974000		✓				
323	St. Frontenac Old a/c	✓ X	229801		✓				
325	Lake Rapids Iron Co	✓ X	3309819		✓				
331	Antwerp Iron Co	✓ X	1830857		✓				
333	Union Iron Co	✓ X	440144		✓				
334	Gaylord Iron Co	✓ X	654649		✓				
338	The Western Supply Agency	✓ X	1450		✓				
339	Ed & Smith & Co	✓ X			✓				61400
342	St. Pontiac Old a/c	✓ X	140089		✓				
343	St. Pontiac Accident a/c	✓ X	3716900		✓				
343	Insurance Fund St. Pontiac	✓ X			✓				2408500
344	St. Pontiac Construction	✓ X	16813332		✓				
348	Struthers Furnace Co	✓ X	86356		✓				
350	The Andrews Bros Co	✓ X	2702944		✓				
357	St. Frontenac Construction	✓ X	14386668		✓				
354	Peninsular Iron Co	✓ X	409943		✓				
			418189726	447146781					

			418189726	4491	46781	
357	Wheat Furnace Co	✓ x	960481	✓		✓
356	Wm. R. Hart & Co	✓ x	1360214	✓		✓
360	Michigan Co	✓ x	14551	✓		✓
360	St Clair Steamship Co	✓ x	16060	✓		✓
361	Pease & Planet	✓ x	496	✓		✓
363	McCormick & Co	✓ x	1950000	✓		✓
366	Union Rolling Mill Co	✓ x	4345834	✓		✓
368	Cliff Iron Co	✓ x		✓	494990	✓
376	Monongahela Furnaces	✓ x	8991337	✓		✓
378	Jas B Lowe Salary	✓ x		✓	20108	✓
383	Str Pontiac Op a/c	✓ x			3721717	✓
387	Str Frontenac Op a/c	✓ x			2766561	✓
390	Refitting Str Pontiac a/c Accident	✓ x	161030	✓		✓
391	Str Pontiac Improvement a/c	✓ x	31247	✓		✓
398	Over & Short Lake Freight	✓ x	75055	✓		✓
407	Weston Furnace Co	✓ x	356587	✓		✓
408	Dunbar Furnace Co	✓ x	728790	✓		✓
412	Str Frontenac Accident a/c	✓ x	123280	✓		✓
414	Stock of Private Signals	✓ x	1350	✓		✓
415	Freight Lists Insurance	✓ x	24190	✓		✓
416	Iron Cliff Co	✓ x	1709535	✓		✓
420	Carpet Insurance	✓ x	78361	✓		✓
422	Newberry Furnace Co	✓ x	140852	✓		✓
424	The Brown Bommel Iron Co	✓ x	5792500	✓		✓
428	Str Pontiac Accident a/c	✓ x	240071	✓		✓
430	Clinton Iron & Steel Co	✓ x	3611957	✓		✓
432	Girard Iron Co	✓ x	3115288	✓		✓
434	Ship Owners Dry Dock Co	✓ x		✓	91295	✓
435	Cleveland Ship Building Co	✓ x		✓	139790	✓
436	Depreciation of Steamers		2400000			
			454381242		454381242	

Lake Ore Acct

On hand at Mine Nov 30/91	10733
" " " LePorte " "	477
Produced during Year 1892	180000
Purchased of Buffalo Mining Co (not on Luis books)	103
Cancelled Order Munbar Ice Co	5600
" " Martel " "	2706
" " " " " "	1000
P. Y. & W. Carburum	35
P. P. & F. "	17
W. J. Co. "	150
Winn Book "	4
Over-runs 206	
	200825

Sales during Year 1892	177545
On hand at Mine Nov 30/92	2294
" " " LePorte " "	11265
Delivered to O. I. & S. Co to replace Fine Scotch	3851
" " " Steuthers Ice Co " " " "	4348
N. Y. P. & O. Shortage	101
Shipments by F. P. M. to L. E. Co 142,276 Long - As rec'd 140,852 ⁽¹⁴⁰⁾	1424
	200825

Hematite Ore Acct

On hand at Mines Nov 30/91		35519		
" " " L&Perts " "		2251		
Produced during Year 1892		86700		
Over-runs		199	<u>230</u>	✓
FP Mills reports "Hematite" shipped as Salisbury Bag 37,409				
As per our account	37,409		<u>330</u>	
		124669	<u>560</u>	
Sales during Year 1892		52938	<u>210</u>	
On hand at Mine Nov 30/92		71633		
" " " L&Perts " "		47		
1% deducted from cargoes, as follows				
Shipments as per FP Mills	5098			
Receipts as per our records	<u>5047</u>		51	
Shipments to Antwerp Iron Co, as per FP Mills	8079			
" " " " as per our records	8078	<u>1890</u>		350
		124669	<u>560</u>	

Debits

Brown & Co	1	-	280
Elk Rapids	13	-	830
Betroit I & Co	519	-	340
I & Co (H Lloyds Sons)	247	-	1400
" (Elk Rapids)	561	-	840
H Lloyds Sons	47	-	1400
Youngstown Steel Co Shortage	72	-	820
H Lloyds Sons	100		
" "	1200		
Penn Iron Co	1354	-	530
Brown & Co	1	-	280
Penn Iron Co	292	-	2020
Elk Rapids	84	-	1890
Union Iron Co	444	-	1050
" " "	18	-	2120
Elk Rapids Iron Co	4450	-	170
Newberry Ice		-	2120
I & Co. Bannum	41	-	2130
Hart & Co	10444	-	310

Credits

Wm Leland Sons & Co	91	2010
Laughlin & Co	3,000	
Union Rolling Mill	20,000	
Lindsay & M ^c L	150	200
" "	406	1960
Gaylord Iron Co	5,000	
Union Iron Co	6,000	
Wm Leland Sons & Co	51	1660
Phillips Minnick & Co	1	
Lindsay & M ^c L	443	80
Elk Rapids Co	19,000	
Penn Iron Co	6,000	
H Lloyds Sons & Co	200	
Martel	1,000	
H Lloyds Sons & Co	47	1400
Spang Chalfant & Co	300	
Oliver J & Co	100	
Western Ice Co	10,000	
H Hubbard Iron Co	46	1200
H Lloyd Son & Co	72	1850
Spang Chalfant & Co	6	1220
Antrim	8,000	
Andrews Bros	6,000	
Antrim	455	30

H Lloyds Lono & Leo	74	1790
" "	1200	
Elk Rapids	2250	
Carkins & Leo	40	
Martel	337	1150
Newberry	700	
Clinton I & Leo	53	2080
Carkins I & L	10	1560
LaBelle	15	900
Antim	16	950
Girard	5000	
Gaylord	10	320
Martel	1172	640
Clinton I & Leo	1012	120
Mc Cormick & Leo	6000	

Scotch

Fine Scotch

Churnings

No 1

Total

On hand at Mines Nov 30/91

" " " L E Bets " (75102)

Produced during Year

29,121

Ⓟ 80,165 ¹⁶⁸⁰

97,700

U.S. Coast
Lake & Harbors



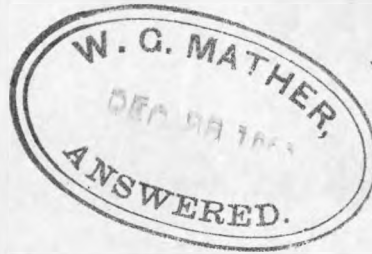
CLEVELAND IRON MINING Co.,

ISHPEMING, MICHIGAN.

for PCM

December 23rd 1892.

W. G. Mather, Esq., Pres't,
Cleveland, Ohio.



Dear Sir:-

Following is statement of excess in stock piles, and average at which outputs will be figured during coming year.

CLEVELAND HEAMTITE MINE.

During the years 1889 and 1890 the stock piles were cleaned up and actual weights obtained.

During 1891 only a small amount of ore was shipped from pile, and only 331 tons taken as excess. This being for purpose of making even figures for the year.

For 1892 but a little has gone from stock, and no excess so far taken.

STATEMENT.

	Actual tons shipped from			Actual tons per Bucket from		
	S.Pile.	Mine.	Total.	S.Pile	Mine.	Total.
Dec.1st 1888 to Dec.1st 1889.	31051	11654	42705	1.516	1.491	1.513
" " 1889 " " " 1890	21778	36619	58397	1.500	1.512	1.504
" " 1890 " " " 1891		8854	8854		1.393	1.393
" " 1891 " " " 1892		39292	39292		1.590	1.590
Totals	52829	96419	149248	1.507	1.531	1.522

Have put in no stock pile shipments for 1891 and 1892, as piles were not cleaned up.

Buckets during this whole period were extended at 1.25 tons.		
For 30712 Buckets hoisted and put in stock during 1891 an		
excess of .272 tons per bucket makes		8353 tons.
For 25874 Buckets hoisted and put in Stock during 1892 an		
excess of .272 tons per bucket makes		7038 "
		<hr/>
	Total Excess	15391
	Less tons taken to make even figures in 1891	331 "
		<hr/>
	Net Excess	15060 "
Amount in stock pile according to books Nov.30th 1892		56633 "
		<hr/>
Total in stock including above figured excess		71693 "
A survey of pile at 17 cu.ft. to 1 ton shows		67262 "

and we think it perfectly safe to take an even 15000 tons excess.

Buckets for coming year will be extended at 1.52 tons each. This average being based on an actual shipment of 149,248 tons.

CLEVELAND HARD ORE MINE.

At Cleveland Hard Ore Mine only two contracts are working, and they present exceptional conditions. The smaller the tonnage given them credit for the larger is our security.

Skips are extended to 1 3/4 tons, and will go about 2 tons.

CLEVELAND LAKE MINE.

At Lake Mine 24600 tons shipped in November averaged 2.204 per skip of two small tram cars each. Will extend skips at 2.20 each, or 1.1 for each tram car, for coming year.

Only two days hoisting went in stock pile at close of year.

CLIFFS SHAFT MINE.

(Cars have been estimated at 2.10 tons each.)

In 1890 Stock Pile was cleaned up, and 81448 cars during year averaged 2.142 tons each.

In 1891 Stock Pile was cleaned up, and 73363 cars during year averaged 2.183 tons each.

Average for 1890 and 1891 for 154811 cars during this time is 2.162 tons each.

In 1891 after pile was cleaned up 7102 cars were dumped in stock, and at an excess of .062 amounts to 440.tons.

In 1892 there was hoisted 84889 cars, and at .062

excess per car amounts to 5263

Less amount taken during year to make even

figures

734

4529

Total net Excess

4969

Would like to take an even 5000 tons excess, and will extend cars for coming year at 2.16 tons each. This average being based on an actual shipment of 334701 tons.

SALISBURY MINE.

At Salisbury Mine, stock piles were cleaned up, and 133700 tons for 11 months made an average of 2.29 per skip. Will extend coming year at this rate.

W.G.M. #4.

FOSTER MINE.

At Foster Mine on October 1st 1892 we put in a scale for weighing all ore mined, and find that our skips have, for the two months since then, averaged 1.315 tons.

On December 1st 1890 there was in stock, according to the books of the Iron Cliffs Co. at Negaunee, 11798 tons, and this should give, with an extension of 1 ton to skip, an excess of 3716 tons. We do not think it safe or proper to take any of this excess.

Since December 1st 1890 no excess has been taken, as stock pile has not been cleaned up at any time.

Extended at 1 ton to the skip the production has been 18700 tons, or skips from Dec.1st 1890 to Dec.1st 1891,

and at .315 tons excess per skip amounts to	5890 tons.
14700 tons, or skips from December 1st 1891 to October 1st	
1892, and at .315 tons excess per skip amounts to	<u>4630</u> "
Making a total excess of	10520 "

According to our books, without adding any of above excess, we have in stock pile 25886 "

An actual survey computed at 17 cu.ft. to ton equals 26228 "

In view of this would not consider it safe to take full amount of excess showing above, but would like to take an even 4600 tons for previous year. For this coming year, using actual weights, we will make true comparison with last year's work.

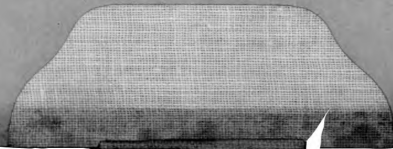
Yours truly,

F. P. Mills
Agent.

P.S. As per your verbal permission we have taken the foregoing credits namely.

W.G.M. #5.

Cleveland Hematite	15000	tons.
Cliffs Shaft	5000	"
Foster	<u>4600</u>	"
Total	24600	"



3

CLEVELAND IRON MINING CO.,

ISHPEMING, MICHIGAN.

*File with Annual
Report*

February 3rd 1893.

W. G. Mather, Esq., Pres't,
Cleveland, Ohio.

Dear Sir:-

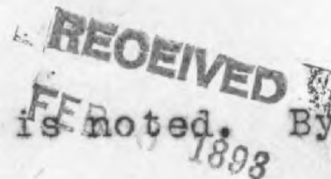
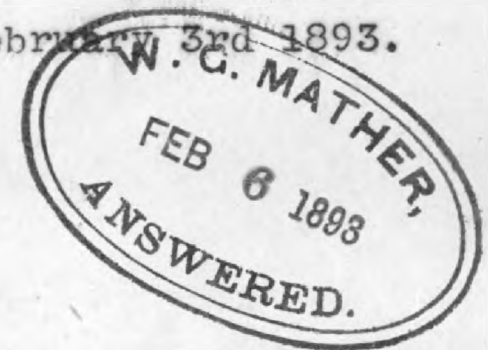
Yours of the 31st is noted. By ore in sight I mean what we are
absolutely sure to produce.

At Lake we figured on all rooms showing on 1st and 2nd levels, 6 rooms
on 3rd level, and deducted 10% for waste.

Yours truly,

F. M. Jones

Agent.



IRON CLIFFS COMPANY,

DEPARTMENT OF MINES AND MINERALS.

ISHPEMING, MICHIGAN

REPORT OF SUPERINTENDENT FOR YEAR ENDING DECEMBER 1st 1892.

I R O N C L I F F S C O M P A N Y,
DEPARTMENT OF MINES AND MINERALS.

Report of Superintendent for year ending December 1st 1892.

Ishpeming, Mich., January 16th 1893.

W. G. Mather, Esq., Pres't,
Cleveland, Ohio.

Dear Sir:-

We send you detailed cost statements, copy of inventory and book of maps.

Following is description of work done during year, and present condition of your property:-

OLD BARNUM MINE.

No work has been done at this mine since March 1st 1891.

To the south the Lake Superior Iron Co's workings on same deposit show no great size, and most western stope on their 689 foot level, which would have crossed our line, if ore held out, has been stopped. The ore remaining on our side of the line we estimate at 30,000 tons.

CLIFFS SHAFT MINE.

Produced during last year	184000 tons.
Estimated production for coming year	190000 "
Average number of men employed	309

During past year an entirely new and more complete map of the mine has been made. Datum for levels has been changed from collar of A. Shaft to top of cast iron Section corner post, firmly set on piles driven in bed of Lake Bancroft. The levels are also renamed.

C., or 349 foot level is now called 1st, or 313 foot level.

B.,	" 389	"	"	"	"	2nd,	" 355	"	"
A.,	" 427	"	"	"	"	3rd,	" 394	"	"
Main,	" 461	"	"	"	"	4th,	" 427	"	"
1st,	" 503	"	"	"	"	5th,	" 469	"	"
The New Bottom	"	"	"	"	"	6th,	" 511	"	"

A. Shaft was sunk $50\frac{1}{2}$ feet during year, making present depth 526 feet.

B. Shaft remains at a depth of 440 feet, the same as a year ago.

On 1st, or 313 foot level at A. Shaft, a connection has been made to rise put up from level below, and two stopes are being carried west. Still east of this, two rises have been put up in ore from red oxide stope on 2nd level. From the tops of these rises two stopes are now being driven, one east and one west. The one west we hope will hole into the other workings. On this same level at B. Shaft the two stopes going both east and west have been extended, and at present the western one, which shows the best ore, is being worked.

On 2nd, or 355 foot level at A. Shaft, the work has been confined to territory north and west of shaft. The drift following along the north wall, and which was turning south-west a year ago, did not go far before getting into ground too poor to work, and drift from B. Shaft to connect also got into this same material, and was stopped.

During year two stopes have been cut through east end of flat block of ore still standing, and four stopes carried south from north side and west end of same large body of ore. These latter stopes run up against rock, which have not attempted to drive through, as stope going west on south side will develop the ground cheaper.

The stope of lean ore almost due west of shaft has during year turned into fair ore, and is being carried west, but seems to be pinching up.

On this same level, but at B. Shaft, two stopes are worked, one on north side driving west on same ore shown up over a year ago by diamond drill hole north. This ore we hoped would connect east with flat deposit from A. Shaft, but it is narrow going east, and as it widened to the west, being now fifteen feet, we are going that way. During year diamond drill holes have shown us the ore again that pinched out in the two old stopes going west from south side of level. Have been mining from both stopes, and are at present working west on the north stope, and north-west from a point part way in on the south stope.

On 3rd, or 394 foot level at A. Shaft, we have mined out some ore immediately north of shaft and formed two pillars, and one stope is being worked from most north-west corner. The ore cut just a year ago way to the north by long jasper drift running under the flat ore on level above has been developed some during year. A rise has been put up to the level immediately over, and an underhand stope worked from same on east side of the cross cut. On other end opposite this place, a breast stope is being carried west.

On this same level west of B. Shaft following up the showing made by drill work and extension of old stopes on level above, some drill holes have been bored and ore found. A drift is now on way west after it, and has 80 feet to go to reach place where the drill cut the ore, but already have ore in floor of level and on north side of drift near present end.

South-east a short distance from B. Shaft an underhand stope has been carried north and south across the deposit, and is interesting as showing a nicely rounded roll of the jasper over which the ore occurred.

On 4th, or 427 foot level no new ore has been shown up, and very little work done. One diamond drill hole was bored at west end without finding ore. Are waiting for further developments west on two levels over this one to show us what can be done the cheapest. One scam only is worked in a poor stope heading north east, and the breast of which is north and a little east of B. Shaft. This stope produces a small amount of a mixed specular and magnetic ore.

On 5th, or 469 foot level at A. Shaft, have been sinking underneath shaft, and went down to 16 feet below the 6th level. Have also raised up and holed to shaft and dropped the cage to the bottom.

On east side of level are now driving through the soap rock crossing and expect ore on the other side.

On 6th, or 511 foot level, have driven a short distance east and west, and expect to continue and swing more rapidly south as we get away from shaft until the ore body is encountered. The bottom of shaft and a part of the drifting is in siderite; present ends of drifts are in jasper.

Eight diamond drill holes have been bored underground during the year, and valuable information obtained on 2nd and 3rd levels where we are now mining and driving after ore shown up.

The mine is looking well, and output, while not showing as great a proportion of No.1 ore as formerly, can be materially increased by additional compressing capacity and more drills.

The amount of ore now in sight we estimate at 600,000 tons. The ore in this mine is mainly obtained from breast stopes driven both lengthwise and crosswise of the formation. Some underhand stoping is done, and there will later on be more of it.

No back stopes are worked. Practically no timber is used, occasionally a stull is put up, and sometimes a drift of timber is made and covered over with rock wasted from other portions of the mine; none being hoisted to surface when possible to avoid.

Contracts in this mine are let at so much a car for either ore or rock. All of the men, drill runners, fillers and trammers sharing equally. They bar down their own ground and keep stopes safe. Shaft sinking is by the foot, also drifting in all rock.

During year have made an extension west of both B. and A. Shaft stock pile docks, and at A. Shaft pocket, have leveled off the space between the railroad tracks and planked it.

Are getting up plans for a crushing plant, which we intend shall be ready to crush some of next season's ore.

Captain William Sedgwick has charge of the Old Barnum Mine and Cliffs Shaft Mine. Of long experience and conservative, he is eminently well fitted to look after a hard ore property in these days of close margins.

FOSTER MINE.

Produced during last year	23400 tons.
Estimated production for coming year	25000 "
Average number of men employed	36

The mine is worked only on day shift.

Shaft was sunk $71\frac{1}{2}$ feet on underlay of 35° during year, making present vertical depth 356 feet. The sinking was all in ore.

All ore down to the 3rd, or 258 foot level, has been mined out. Production during year has come from between the 3rd and 5th levels, and enough ore remains above the 5th, or 303 foot level to last a few months.

The 6th, or 333 foot level, has been sunk to, during year and is driven out from shaft on either side, and a rise put up to level above. It is now ready for underhand stoping at any time.

The 7th level will be sunk to and opened out on, during coming year.

The size of the deposit holds just about the same. The amount of ore now in sight we estimate at 50,000 tons.

The ore in this mine is all broken by underhand stopes, and no timber is used; the ore standing well enough to form pillars. The roof is firm, and together with the foot is of lean ore and jasper.

Contracts in this mine are let at so much a car for breaking, so much for breaking, filling and tramping, and so much for filling and tramping.

During year have put in wagon scales for weighing coal, and a small scale by shaft house to weigh all ore hoisted.

On account of increased depth of the mine our present two small portable boilers are inadequate for the work, and will want to put in two good stationary boilers during coming year.

The hoisting plant is poor. Have broken crank of engine and may be compelled to put in something better.

If air compressors and power drills were added to this mine at a cost of say - \$6000.00, we estimate the cost of the ore would be reduced from 15 to 20 cents per ton.

The quality of the ore has improved during the year, but is still so poor that we hesitate to recommend any outlay not absolutely necessary.

Captain Thomas Buzzo has charge of the mine, and is doing as well as the equipment will permit.

SALISBURY MINE.

Produced during last year 145900 tons.

Estimated production for coming year 125000 "

Average number of men employed 147

New shaft was sunk 59 feet during year, making present depth 800 feet. The sinking was all in paint rock.

Old shaft is down 562 feet, being the same depth as a year ago.

On 8th, or 506 foot level, nearly all of the ore has been exhausted. A small amount remaining over the main tramming drifts until a few pillars, still left, are scrambled out.

On 9th, or 562 foot level, almost all of the room ore has been mined out during the year, and have attacked a number of the pillars.

On 10th, or 610 foot level, have fully tested up the size of the deposit and mined some ore. The coming year will likely clean out the ore from here up.

On 11th, or 650 foot level, have been testing up the shape and size of ore body, and mining a small amount of ore. We did not succeed in finding a workable deposit of ore on this level south of the shaft; the deposit on 12th level barely reaching up to the floor of this level.

Are now working on a run of ore going east that we are uncertain about. It appears to be following along side of what we think is the south bluff, and although showing well now, it is liable to be cut off by north bluff before going far.

On 12th, or 686 foot level, the water which bothered us last year is completely drained, and size of deposit fully proved up. We did not find as much of, or as clean an ore body south of shaft as we hoped to. The ore, however, has been comparatively low in phosphorus.