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.. IRON CLIFFS COMPANY ..
..
.. ISHPEMING, MICHIGAN. ..
..
.. AGENT'S ANNUAL REPORT. ..
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.. FOR ..
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.. Year ending November 30, 1902. ..
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IRON CLIFFS COMPANY.

Ishpeming, Michigan, January 12th, 1903.

Mr. Wm. G. Mather, President,

Cleveland, Ohio.

Dear Sir:

I beg to submit the following report of the operations of the Mines of the Iron Cliffs Company, for the year ending November 30th, 1902.

The maps, statements and inventory appertaining to this report have been sent you.

BARNUM MINE.

No ore has been mined from this property by the Lake Superior Iron Company during the year.

CLIFFS SHAFT MINE.

The following amount of ore has been mined from the different levels during the year:

LEVEL	"A" SHAFT	"B" SHAFT	TOTAL
First Sublevel	7592	26545	34137
Second Sublevel		19391	19391
First	46378 <i>53970</i>	21048 <i>62954</i>	67426
Second	37624	4393	42017
Third	10142	34729	44871
Fourth	2517	7414	9931
Fifth	25155	2130	27285
Sixth	27551		27551
Seventh	6393		6393
	163352	115650	279002

AVERAGE ANALYSES OF MINE SAMPLES FOR 1902.

	Iron	Phos
Cliffs Shaft Ore, Crushed,	62.20	112
Cliffs Shaft Ore, Coarse,	64.00	094

ORE SHIPMENTS FOR 1902.

	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Coarse Ore	49878		49878	31938
Crushed Ore	123056	209279	332335	192479
Total	172934	209279	382213	224417
Last Year	156380	68037	224417	
Increase - 70.3% -			157796	

AVERAGE ANALYSIS OF CARGOES FOR 1902.

	Iron.
Cliffs Shaft Ore, Crushed	61.60
Cliffs Shaft Ore, Coarse	62.70

ORE STATEMENT, NOVEMBER 30th, 1902.

	Cliffs Shaft	Last Year
On hand December 1st, 1901,	124445	75594
Output for year,	279002	273268
Total	403447	348862
Shipments	382213	224417
Bal. in stock Nov, 30th, 1902,	21234	124445
Decrease in ore on hand,	103211	
Increase in output, - 2.1% -	5734	

Cliffs Shaft.

CLIFFS SHAFT.

AVERAGE WAGES AND PRODUCT.

Product 279002 tons 1902. Product 273268 tons 1901.	SURFACE		UNDERGROUND		TOTAL	
	1902	1901	1902	1901	1902	1901
Average No. men working,	72	74	254	245	326	319
Average wages per day	1.86	1.87	2.16	2.16	2.09	2.09
Average wages per Mo.25 days,	46.50	46.75	54.00	54.00	52.25	52.25
Average Product per man per day,	12.51	12.06	3.67	3.71	2.84	2.84
Labor cost per ton,	.148	.155	.588	.582	.736	.738
Difference in labor cost per ton,	.007	.010	.006	.003	.002	.013
Average Prod.Breaking & Trammig,			5.39	5.40		
Average wages for contractors,			2.25	2.24		
Average wages for Miners,			2.38	2.36		
Average wages for trammers,			1.95	1.96		

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	PRICE	AMOUNT	AMOUNT 1901.
50% Powder	120980	.12	14517.60	13956.00
Fuse	141397	4.263	602.87	488.80
Caps	40142	6.261	251.35	218.50
Exploders	2300	.30	69.03	166.52
Wire	217	.30	65.10	125.10
			15505.95	14954.92
			1902	1901
Product			279002	273268
Lbs Powder per ton of ore			433	420
Cost per ton for explosives			.055	.055

Cliffs Shaft.

CLIFFS SHAFT.

STATEMENT OF COMPARATIVE WAGES.

	1902	1901	Increase or Decrease for 1902.
<u>SURFACE</u>			
Total number of days	22305	22659 $\frac{1}{4}$	
Average rate	1.86	1.87	Decrease .01
Amount	41447.57	42394.44	Decrease 946.87
<u>UNDERGROUND</u>			
Total number of Days	75966 $\frac{3}{4}$	73571 $\frac{1}{4}$	
Average rate	2.16	2.16	
Amount	163934.73	159182.92	Increase 4751.81
Total Days	98271 $\frac{3}{4}$	96230 $\frac{1}{2}$	
Average rate	2.09	2.09	
Total Amount	205382.30	201577.36	Increase 3804.94

CRUSHER PLANT.

The following statement shows the cost of operating the crushers for the past year; and a comparison with the work of the preceding year.

	OPERATING COST		REPAIR COST		TOTAL COST		
	Amount	Per ton	Amount	Per T	Amount	Per T 1902	Per T 1901
Operating Engines	3966.87	017	36.08	000	4002.95	.017	.016
Operating Crushers	3602.28	015	836.32	004	4438.60	.019	.028
Total Crushing Cost	7569.15	032	872.40	004	8441.55	.036	.044
Tramming to R R Pocket	2694.19	012	291.62	001	2985.81	.013	.014
Total Cost 1902	10263.34	044	1164.02	005	11427.36	.049	.058
Total Cost 1901	10535.37	043	3473.95	005	14009.32	.058	.060
Labor Cost						.033	.034
Supply Cost						.016	.024
Total						.049	.058
Per Cent	.90		.10		100		
No. of men employed	13					61	65
Product per man per day							

CLIFFS SHAFT MINE.

The cost of Mining 279,002 tons of ore has been as follows:

	1902	1901	Increase	Decrease
PRODUCT	279002	273268	5734	
General Expense	.020	.019	.001	
Maintenance	.028	.039		.011
Mining Expense	.891	.895		.004
Cost of Production	.939	.953		.014
EXPLORATORY	.019	.012	.007	
DEPRECIATION				
Inventory	.008	.012		.004
Improvement	.002	.013		.011
New Construction (Dry)	.017		.017	
Royalty		.001		.001
Steam Shovel	.002	.003		.001
Total	.029	.029		
Less Credits	.000	.000		
Total Depreciation	.029	.029		
Taxes	.064	.057	.007	
Central Office	.031	.027	.004	
Cost on Stockpile	1.082	1.078	.004	
Loading & Shipping	.024	.015	.009	
Total Cost	1.106	1.093	.013	

Loading and shipping. Comparison figured on basis of actual tons loaded.

1901,	68037 tons,	Cost	.024
1902,	207882 "	"	.018
	Decrease		.006

Cliffs Shaft.

CLIFFS SHAFT.

The work in the different parts of the mine has been as follows:

The maps have been tinted to show the extensions for the year, and for convenience of reference each stope given the number of its contract.

"A" SHAFT.

The sublevel above the first level where No.4 was working at the date of the last annual report, is exhausted. The ore only extended 80 feet West, and was cut out by the jasper. This contract was then moved to the sill floor, and is now stoping West. The ore on the bottom is only 8 feet wide, but the back of the stope 22 feet above is double this width. The stope is between two walls of slate but is not on the true foot. The trend of the slate is now more to the North, and the stope is following in this direction.

FIRST LEVEL.

No.5 has been extended 150 feet West. The stope is 25 feet wide and 22 feet high, and has ore on both sides. In the back the ore is too lean to mine. The breast is still in good ore, but the deposit is turning to the North. As will be noted from the map, this is entirely new ground. No work ever having been done on this level so far West.

At 29 the stope was carried over a bench of rock 10 feet high, and has followed the ore 100 feet West, and 50 feet south. There is now only a small amount of ore in the breast between jasper walls. This will be followed in hopes of its opening out again. The West 100 feet still has ore to the South. For the first 125 feet there was jasper in the back of the stope, but the last 25 feet shows good ore. A raise will be put up at this point to test its height.

Contract No.22 first drifted through 25 feet of jasper, and then 30 feet of ore before striking the slate. The stope was then turned East, and has been driven 50 feet. It is 22 feet wide and 27 feet high. The ore being taken off to the jasper hanging. On the North side there is still ore, but on the South a wall of slate.

Cliffs Shaft.

CLIFFS SHAFT MINE.

This slate has not yet been tested, and we may find ore behind it. The breast is still in good ore. To the West the ore is 15 feet wide, but no work has yet been done to test its extent.

SECOND LEVEL.

No.7 has been extended 75 feet East and 25 feet South. At this point the ore was cut out by slate. This contract has now been moved back 125 feet, and a raise put up 38 feet to the top of the ore, stopping in jasper. This contract will now take the ore from the back of the old stope.

No.9 is drifting West under 22. The ore is only 10 feet wide and very hard. The face of the stope is now in jasper. It is intended to put up a raise from this point to take the ore from the bottom of 22 stope, when this contract is finished. The foot wall of this deposit is jasper and the hanging slate.

THIRD LEVEL.

No.6 was extended 85 feet West and struck Jasper. A raise was then put up on the ore lying on this jasper and holed to the second level "B" shaft. The ^{ore} was only about 12 feet wide and of low grade, running not more than 56.00 in iron. 50 feet East of the breast of this stope a cross cut was driven North, first through 6 feet of slate, and then 7 feet of ore, which was followed 75 feet West and 50 feet South, and was finally cut out by slate. A raise is now being put up 20 feet from the breast.

No.21 which, on the date of the last annual report had crossed 18 feet of ore, struck the foot wall at 20 feet. This has proven to be the widest part of the deposit. To the West a stope was carried 60 feet with an average width of 15 feet of ore, and was stopped in mixed ore and jasper, and a cross cut driven 40 feet West to connect with the old workings for ventilation. The ore was then stoped 110 feet East stopping in jasper. The first 50 feet was 10 feet wide, and the last 60 feet only 8 feet. The ore however, was of high grade.

Cliffs Shaft.

CLIFFS SHAFT MINE.

At the end of the stope a raise was put up to connect with the second level. This raise showed ore in the East side with a dip to the East, and the supposition is it extends down to the main level beyond the slate. In the breast of the old stope a cross cut is now being driven East to test this.

110 feet North East of the shaft No.29 is driving a cross cut North and at 50 feet has just struck ore. This opens up an entirely new territory. The ore was discovered by means of a diamond drill which was located by Prof. Smyth after a careful study of the geological formation underground. Reference is made to his report for more detailed particulars of his conclusions and recommendations.

It may not be out of place here to say that his work has been of great value, both at this mine, and all other properties of the Company.

300feet East of the shaft No.1 contract has raised 10 feet on the jasper and is now stoping West on top of this rock between two pillars taking the ore to the 2nd level.

No work is being done on the 4th level except at No.3.

227 feet East of the shaft a cross cut was driven North to reach the ore shown by diamond drilling, which has been referred to at 29 on the 3rd level. After passing through 92 feet of slate, the ore was struck and found to be about 20 feet wide. It lies between slate walls and is of high grade. The width of the ore to the East has not yet been tested. To the West it has been opened up for a distance of about 50 feet. At present the breast is in mixed ore and slate. The most promising territory however, is to the East, and it may turn out to be quite an important find. A raise is now being put up to the 3rd level for ventilation.

FIFTH LEVEL.

At No.12 the stope was continued West 75 feet and stopped in soap rock. A cross cut was then driven North and after passing through 27 feet of mixed jasper and slate crossed 15 feet of ore. This was followed 40 feet East when the ore Cliffs Shaft.

CLIFFS SHAFT MINE.

was again cut out by jasper. To the West the body pinches out by the foot and hanging walls coming together. An exploring drift is now being carried North.

No.31 was extended 35 feet South and struck the slate, showing a total width of 215 feet of ore. As will be seen from the map, a stope was driven East 100 feet and stopped in slate. The last 25 feet was only 10 feet wide. The ore should extend much farther East, and the ground will be tested during the coming year with a diamond drill. Five stopes have been driven to the West on this deposit, all of which have been cut out by slate except No.31 which is following the rock on the West side of the ore. A raise from the 6th level shows the ore on the East side of the main drift to be only 15 feet thick. This deposit has proved very disappointing, as we had every reason to believe from developments on the date of the last annual report that an unusually large body of ore had been found. There are so many faults and rock intrusions in the bottom of the mine that we may find the extension by more thorough exploration.

SIXTH LEVEL.

The soap rock which was referred to in the last annual report as having been struck in the breast of No.11 turned the stope to the South East as anticipated, and the ore has been followed 100 feet in this direction. The stope is 16 feet wide and 18 feet high, the back being slate. The North side of the stope is slate and the South jasper. The stope is now turned due South and has ore in the breast. A small test drift was driven 65 feet South in mixed ore and jasper. To the East of the South deposit No.18 of last year stopped in soap rock. A small cross cut was driven East through 3 feet of rock and 20 feet of mixed ore and jasper and stopped in rank jasper. However a raise from the 7th level 30 feet North East of this cross cut, was put up all in ore, and from the top of this raise a drift has been driven 30 feet East in ore about 10 feet wide, between walls of slate. This should continue some distance East and connect with the ore which was shown Cliffs Shaft.

CLIFFS SHAFT MINE.

by the diamond drill hole from the East end of the 6th level.

SEVENTH LEVEL.

The ore struck last year by No.8 was only 30 feet wide, and as it was directly under a pillar on the 6th level, it could not be mined. From the South side of this deposit a cross cut was driven 60 feet East mainly in mixed ore and soap rock, stopping in jasper. The outlook was so unfavorable that the men were brought back and a new cross cut started 25 feet North of this. After passing through 60 feet of slate, 30 feet of ore was crossed, but this also had to be left, because underneath a pillar on the level above. The drift was then turned North East following jasper foot wall, and at a distance of 75 feet struck ore.

Contract No.8 has carried a stope 50 feet North East, 20 feet wide and 22 feet high, with ore on both sides, and in the breast where this ore was first struck a raise was put up to the 6th level and drifting started East, which has been referred to in description of 6th level.

The development of the 7th level indicates that we will have more rock drifting per ton of ore than the upper levels, and that the cost of mining will be correspondingly increased.

EIGHTH LEVEL.

During the year the shaft has been sunk 50 feet and is now on the 8th level, and drifting has just begun. To the East the drift is in 47 feet and to the West 22 feet.

CLIFFS SHAFT MINE.

"B" SHAFT.

From the South side of the second sublevel three raises have been put up 38 feet by contract 25-1, all of which were in ore. The second and third have been connected at this height by a drift. While there is good ore above the tops of these raises, we do not think it safe to open out any large stopes, owing to the fact that there are only 100 feet of capping between this and the sand, which was shown by a diamond drill hole to be of rotten soap stone. Above the capping there is 80 feet of quick sand, which could not be controlled if it broke through into the workings below, and the probable quantity of ore that could have been obtained from this point would not justify such a risk.

200 feet East of the West end of the second sub a raise was put up 30 feet and stopped in jasper. Contract 25-1 is now putting up a raise on the foot wall in the West end of the second sub. No other work is being done on this level.

FIRST SUBLEVEL.

During the year this level has been extended 50 feet West and No.20 is now raising on the foot through a large pillar. No.25-2 is raising from the East end of the sub, and have reached a height of 70 feet corresponding to the top of the raises from the second sub. This contract will now stope the ore from the South side of the raise on the foot wall. There is ore both East and West, which will be developed later.

FIRST LEVEL.

550 feet West of the shaft No.14 is stoping but has just struck the foot wall, 20 feet from the main drift.

No.17 struck jasper after drifting 10 feet further East than was shown by last annual map. A drift was then driven South following a small deposit of ore 8 feet wide and 7 feet high lying on the jasper foot with slate on the East. At the end of 20 feet the ore opened out in width and height, and a stope was extended

CLIFFS SHAFT MINE. "B" SHAFT.

50 feet South in ore, 20 feet wide and 18 feet high, at which point it was cut out by slate. A test hole was then drilled in the slate and struck ore at 8 feet. A drift was driven through the rock and a stope opened. The ore was 18 feet wide and 16 feet high, but only continued 50 feet to the South. A raise was put up 30 feet high when the ore cut out. This is apparently the end of the deposit.

No.17 is now raising 70 feet North of the breast of this stope, but the ore is badly mixed.

No.13 on the sublevel 38 feet above the main level has been extended 100 feet East and stopped in jasper. They have now started 50 feet West of the breast to open a stope towards the hanging. To the West of the raise no work has been done. The ore at this point is 15 feet wide.

No.23 on the same sublevel has been extended 125 feet East and 50 feet South, and has also stopped in jasper. This contract has just started to stope West from the top of the raise.

The limits of this ore body now seem to have been defined, although it is possible that more ore may be found by explorations East and West.

SECOND LEVEL.

The only work now being done on this level is at No.15, which is raising on the West end to take out a bottom below the first level. Between 425 and 500 feet West of the shaft three raises were put up 25 feet on the foot wall, all stopping in soap rock.

THIRD LEVEL.

The stope at No.2 has been extended 100 feet South, the ore being 18 feet wide and 20 feet high and was stopped in jasper. From the breast of this stope a drift was carried 50 feet South East following a small seam of ore, which was cut out by the slate. From the face of this drift a raise was put up 40 feet, all in ore, but had to be stopped on account of poor ventilation. 30 feet North of this raise a second one is being put up and is now 65 feet high, all in ore, and will be
Cliffs Shaft. "B" Shaft.

CLIFFS SHAFT MINE. "B" SHAFT.

continued to the first level to connect with No.17.

No.28 has raised from the 3rd level to the first level, and has holed to No.17, 100 feet West from the breast of the stope. At present this contract is stoping East on the elevation of the second level, in ore 17 feet wide.

No.19 struck rock shortly after the date of the last annual report. A raise was then put up South East on the foot, and holed to the second level. 18 feet above the main level the ore was horizontal for a distance of 30 feet. To reach this ore a cross cut was driven from the level, and the ore above milled through this drift, thus saving a second handling. All the ore between the two pillars above on the second level was taken out.

No.19 was then moved to a point 200 feet South West of the shaft, and 18 feet of ore taken from the back of an old stope, for a distance of about 75 feet. From this point they were moved 200 feet East of the shaft and are now putting up a raise to the second level, all in ore, about 18 feet thick and 20 feet wide, between a jasper foot and slate hanging.

FOURTH LEVEL.

No.16 stope described last year was cut out by slate, and a raise put up on the foot wall to the 3rd level. The ore was only 20 feet wide lying between soap rock walls.

From the North side of this stope a horizontal diamond drill hole was drilled North, and crossed several small veins of ore, the largest being 4 feet wide.

No.16 then started a cross cut to reach this ore, and since striking it has been following it East. For the first 20 feet the ore was only 4 feet wide but from that point it began to increase, and for 30 feet was an average width of 15 feet with ore in the back. It is now narrowing again, and at the breast is only 5 feet wide with every appearance of being cut out by the foot and hanging coming together.

Cliffs Shaft. "B" Shaft.

CLIFFS SHAFT MINE. "B" SHAFT.

No.26 stope holed to No.16. This contract was then started South West on the same deposit. Where the stope began the ore was 16 feet wide, but in 25 feet had narrowed to 8 feet. This ore was followed South West for a distance of 200 feet. At no point being over 15 feet wide, and was finally cut out by the foot and hanging coming together. The ore was uniformly wider in the bottom, and consequently the indications are favorable for a larger body on the 5th level.

FIFTH LEVEL.

No work has been done during the year East of the shaft. The raise spoken of in the last report was holed to the 4th level.

The cross cut 100 feet West of the shaft referred to last year was driven under the ore body above, but no ore found, showing that the ore does not continue to this level. A raise will be put up later to take the ore above.

The main drift has been extended 315 feet to the West, the entire distance being in siderite. This drift will be continued to reach the ore spoken of last year at 16 and 19.

"B" shaft will not be sunk again until more is known of the ground to the West. The West drift will be continued West until it strikes the hanging.

No new bodies of ore have been discovered in "B" shaft during the year, and the exploratory work in this part of the mine has been very discouraging. It certainly seems as if ore should exist to the West, at the depth of the 5th level.

On the upper levels, as has been explained in previous reports, the ground is badly faulted, and it is therefore not advisable to undertake any expensive explorations through them. Should we find that the faulting continues to the 5th level, I should then recommend sinking ^{the} a shaft for at least 100 feet and extend an exploring drift as far West as is practicable. While the developments in "A" shaft have offset the failures in "B" shaft, at the same time should we not be able to mine the usual amount of ore from the West shaft, the output would decrease

CLIFFS SHAFT MINE "B" SHAFT.

owing to our inability to handle more ore than we are now doing from "A" shaft.

The following estimate of ore in sight was made by our Engineering

Department:

	"A" Shaft	"B" Shaft	Total	Less 10% for rock
Floors	670,000	524,000	1,194,000	1,074,600
Pillars	180,000	156,000	336,000	302,400
Partly developed	115,000	167,000	282,000	253,800
Totals	965,000	847,000	1,812,000	1,630,800
In this estimate is included under "Partly developed", 90,000 tons for Back of 1st, Level,	40,000	50,000		
As in Last year and 1900 are deducted,				
Ore to support Lake Bancroft			195,000	175,000
Ore to support Machinery			380,000	342,000
Ore to support Excelsior Addition			50,000	45,000
Total to be deducted,				562,000
Total available for mining,				1,068,800

FATAL ACCIDENTS.

There has been only one fatal accident at this Mine during the year, and that of such a character that no blame can attach to any one.

On October 2nd James Collins was riding on the tram car from the Crusher, when the car jumped the track and fell to the ground below, a distance of 50 feet, carrying Collins with it, and breaking his back.

It has been impossible to obtain a satisfactory explanation of the cause of the car jumping the track. It had passed the curve and was running on a straight track, which even after the accident, was found to be in perfect condition.

Cliffs Shaft Mine.

CLIFFS SHAFT MINE.

The car had only been recently overhauled, and in fact the track, car, rope and all other equipment was in first class condition.

While it is possible that a small piece of ore may have fallen from the car when it was coming out, and derailed it going back, it does not seem probable, and a more rational explanation is that the man who was operating the haulage engine found that the car was going too fast, and suddenly shut off the steam, allowing the rope to become slack, and when he again started the engine, jerked the car, and threw it off the track.

NEW DRY.

A new dry has been built to replace the one burned last year, which is a model of convenience and cleanliness.

It is a one story brick building, 135 x 30 feet, and in addition to separate changing and wash rooms, has a dining room 20 x 28 feet, and an emergency hospital, 11 x 11'6".

The changing room is equipped with steel lockers, and the drying racks for the underground clothes are placed under hoods, so that the odor usually so disagreeable in this class of buildings is practically eliminated.

In the wash room each man has a separate granite ware basin, which is much more cleanly than the old way of washing from troughs and buckets. This room also contains ten shower baths, which have proved a most acceptable addition. They are constantly used and on Saturday evenings it is necessary to keep the dry open an hour or two after the usual closing time.

Curiously enough the dining room is not generally used. The men seeming to prefer to eat their "cribs" in the changing room. I cannot account for this, as the dining room is much more attractive, as a table is provided and benches, for the miner's comfort.

Cliffs Shaft.

CLIFFS SHAFT MINE.

I hope this feature of the building will gradually be appreciated, and that it will be more extensively used during the coming year.

The floors of the building are of cement, and are washed out each morning making it possible to keep the building perfectly clean.

NEW HOUSES.

The new houses which were built last year on the shore of Lake Bancroft have not been as popular as expected, principally on account of the restrictions. Owing to the size and location of the lots, it was not deemed advisable to permit the erection of cow sheds and chicken coops, and for this reason the houses were designed with a full basement, providing room for the storage of coal and provisions. As a sanitary measure, water closets were placed in the houses, rather than to have the usual outhouses.

There are at present four houses vacant. There can certainly be no fault found with the rent, as they are cheaper than any houses of like size in the city. Now that the filling has been completed, except the top dressing, and arrangements made for building fences early in the spring, there will probably be no difficulty in renting these houses, when the weather becomes mild enough for people to move comfortably.

In the end I have no doubt but what the men will appreciate these houses, even with the restrictions referred to, and that we will have no trouble in keeping them occupied.

At the time that they were building, we had double the number of applications than there were houses, and anticipated that they would be in great demand. Since that time however, there have been quite a number of new houses built in the city, which may account for the present conditions.

Cliffs Shaft.

CLIFFS SHAFT MINE.

The house on the East end of the North row settled so much that it was found necessary to move it to the West end of the same row. The two remaining houses on the East end of the North and South rows have also settled to some extent, but by shimming them up we have been able to keep them in fairly good condition. There has been no apparent settling for some months, and there will probably be no further trouble with them.

The houses in the old location have been kept in the usual repair.

Reference is made to the Summary of House Repairs, for particulars of the work done during the year.

All the locations of the Company, were as usual, cleaned in the spring and are in excellent sanitary condition.

SALISBURY MINE.

The total tons of ore mined from the different levels during the year is as follows:

<u>LEVEL</u>	<u>TONS</u>
12th	5924
14th	13099
17th	124140
18th	35523
Total tons	178686

particularly to

AVERAGE ANALYSIS OF MINE SAMPLES FOR 1902.

	Iron	Phos
Salisbury Bessemer	62.80	.054
Salisbury Ore	60.90	.102

ORE SHIPMENTS FOR 1902.

	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR
Salisbury Bessemer	51195	33017	84212	98672
Salisbury	65783	35299	101082	78526
Salisbury No.3.				5227
Total	116978	68316	185294	182425
Last Year	106537	75888	182425	
Increase - 1.6% -			2869	

AVERAGE ANALYSIS OF CARGO SHIPMENTS FOR 1902.

Salisbury	Iron 59.90
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Salisbury.

SALISBURY MINE.

ORE STATEMENT NOVEMBER 30th, 1902.

	BESSEMER	SALISBURY	TOTAL	TOTAL LAST YEAR
On hand December 1st, 1901,	2658	21904	24562	26069
Output for year,	89612	89074	178686	180918
Total	92270	110978	203248	206987
Shipments	84212	101082	185294	182425
Balance in stock,	8058	9896	17954	24562
Decrease in Output - 1.2% -			2232	

AVERAGE WAGES AND PRODUCT.

Product 178686 tons 1902 Product 180918 tons 1901	SURFACE		UNDERGROUND		TOTAL	
	1902	1901	1902	1901	1902	1901
Average No. men working	40	41	160	152	200	193
Average wages per day	1.85	1.86	2.40	2.38	2.29	2.26
Average wages per Mo.25 days	46.25	46.50	60.00	59.50	57.25	56.50
Aver.Prod.per man per day	15.02	14.45	3.72	4.00	2.98	3.12
Labor cost per ton	.123	.128	.646	.599	.769	.728
Diff.in labor cost per ton	-.005	.022	+.047	.040	+.041	.060
Aver.Prod.Breaking & Trammg			5.15	5.43		
Averages wages for contractors			2.45	2.43		
Average wages for miners			2.53	2.52		
Average wages for trammers			2.01	1.98		

Compare

SALISBURY MINE.

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	PRICE	AMOUNT	AMOUNT 1901.
50% Powder	1600	.12	192.00	1696.80
40% Powder	15450	.10½	1622.25	488.25
Fuse	58200	4.25	247.34	243.62
Caps	20450	6.205	126.90	122.63
Exploders	50	.30	1.50	
Wire	2	.30	.60	
Total			2190.59	2551.30
			1902	1901
Product			178686	180918
Lbs of powder per ton of ore			.105	.105
Cost per ton for explosives			.012	.014
Decrease			.002	

STATEMENT OF COMPARATIVE WAGES.

	1902	1901	Increase or Dec for 1902
<u>SURFACE</u>			
Total number of days	11891	12519½	
Average rate	1.85	1.86	Dec .01
Amount	22050.93	23246.88	Dec 1195.95
<u>UNDERGROUND</u>			
Total number of days	48061¾	45566¼	
Average rate	2.40	2.38	Inc .02
Amount	115416.14	1084 0440	Inc 7011.74
Total days	59952¾	58085¾	
Average rate	2.29	2.26	Inc .03
Total amount	137467.07	131651.28	Inc 5815.79
Increase in amount	5815.79		
Salisbury.			

SALISBURY MINE.

STATEMENT OF TIMBER USED FOR MINING ORE 1902.

Size	Lineal feet	Avg. per foot	Amount	Amount last year
6 to 8"	2504	.02	50.08	41.00
8 to 10"	50803	.031	1554.81	1111.21
10 to 12"	36423	.051	1841.81	2049.38
12 to 14"	27990	.066	1840.79	1625.96
14 to 16"	6046	.09	544.14	531.64
16 to 18"				
Total	123766	.047	5831.63	5359.19
Total 1901	114574	.0468	5359.19	4507.38 - 1900

LAGGING.

5 foot lagging	235313	.52	1223.62
7 foot lagging	44329	.553	245.06
Poles	66390	.0092	613.07
Total	346032	.601	2081.75
Total 1901	342614	.58	1983.68

Cost for timber and lagging 1902	7913.38	
Cost for timber and lagging 1901	7342.87	
	1902	1901
Total product	178686	182066
Feet of timber per ton of ore	.69	.63
Feet of lagging per ton of ore	1.57	1.88
Feet of lagging per foot of timber	2.80	2.99
Cost per ton for timber and lagging	.044	.040
Equivalent of stull timber to board measure	364589	356441
Feet board measure per ton of ore	2.04	1.96

SALISBURY MINE.

The cost of mining 178686 tons of ore has been as follows:

	1902	1901	Increase	Decrease
Product	178686	180918		2232
General Expense	.023	.023		
Maintenance	.067	.054	.013	
Mining Expense	.866	.819	.047	
Cost of Production	.856	.896	.060	
<u>DEPRECIATION</u>				
Inventory	.001	.003		.002
Improvement		.004		.004
New construction				
Steam shovel	.001	.004		.003
Total	.002	.011		.009
Less credits				
Total Depreciation	.002	.011		.009
Taxes	.029	.025	.004	
Central Office	.033	.035		.002
Cost on stockpile	1.020	.967	.053	
Loading and shipping	.017	.024		.007
Total Cost	1.037	.991	.046	
Maintenance increase		.013		
Hoisting machy (wire rope)	.006			
Skips & S R New cage	.008			
Mining Expense, Increase,	.047			
Drifting (1000 ft over 01)	.025			
Breaking ore	.015			
Tramming	.008			
Timbering	.022			
Total	.070			
Decrease in sinking acct,	.023			
Increase	.047			

SALISBURY MINE.

The cost of Production shows an increase of 6 cents over last year. This is principally due to the large amount of drifting done for exploratory purposes, and the increased cost of timbering.

As the mining approaches the main levels the waight on the timbers is very much heavixer, and consequently they require repairing almost continually. In fact at this mine timbering done on one Sunday often gives out before the next, so that men have to be kept constantly at work to keep the drifts open.

The increase cost of breaking was due to the fact that a large amount of the ore mined from the 17th level this year came from the sill floor, which is always more expensive than when it is taken in stopes.

The following is an estimate of the ore in sight on the different levels:

12th level	2,000 tons
14th level	1,000 tons
17th level	30,000 tons
Total	33,000 tons

No estimate is made for the ore between the 17th and 18th levels, as the ore body has not yet been sufficiently developed on the 18th level to warrant doing so. It is safe to say however, that there is at least 300,000 tons, and if the extensions to the West are as large as we anticipate from the showing on the 17th level, this amount will be largely exceeded.

The ore estimated on the 12th level is being scrambled between this and the 10th level, just East of the air shaft. 5929 tons were mined here during the year, showing an overrun over last year's estimate of 1929 tons. No close estimate is possible where ore is being run from between old timbers, as in this case.

On the 14th level a small amount of ore is left on the foot wall East of No.4 shaft. This level produced for the year 13099 tons, as against last year's estimate of 10,000 tons.

Salisbury.

SALISBURY MINE.

17TH LEVEL.

The ore estimated on this level is on the foot wall, on the East and South West of the shaft, and on the West extension of the ore body. 90,000 tons was estimated for this level last year, but 131,818 tons were hoisted during 1902, and we still estimate 30,000 tons in sight, making a total excess over last year's estimate of 71,818 tons or nearly 80%. From this the inference would naturally be that the original estimate was carelessly made, unless it is explained that the increase is practically all due to the extension of the ore body to the West, which was not developed at the time of the last annual report.

The following is a description of the work done during the year, and the present condition of the property.

All the ore above the 12th level is exhausted, except a small amount estimated East of the air shaft, between this and the 10th level.

12th LEVEL.

During the year 5924 tons of ore were mined from the old pillars around No.1 shaft above the 10th level. At present the miners have fallen back almost to the raise, and are taking out what is left of a small shaft pillar. As the estimate indicates this place is nearly exhausted. Only four miners are working at this point, two on a shift. A large amount of exploring has been done on this level West and South of the shaft. A cross cut was driven 300 feet South West across the formation, all in mixed ore and jasper. It did not reach the hanging as the work below had pulled the ground on this level, and it was not considered safe to cross the broken territory. The men were then brought back, and a cross cut driven almost due West 450 feet with the strike of the ore. This drift was continued until the foot and hanging came together. No merchantable ore was found, but for the entire distance the drift was in a good ore formation. This drift and the one on the 8th level show that the diorite bluff South West of the shaft house is entirely underlaid by the ore measure, and is in fact an immense island.

SALISBURY MINE.

14TH LEVEL.

One gang of six miners is taking out what ore is left on the foot wall East of the shaft. This will be completed by the end of January. It is not likely that any more ore will come from this level when the present contract is finished.

17TH LEVEL.

48 miners are working on this level. 36 taking out the ore on the sill floor, and 12 on the 20 foot sublevel in the West end of the mine. West of the limits of the 16th level above, the ore has been developed on this level for a distance of 240 feet. At the extreme West end the ore is too lean to mine, but on the 18th level, it is expected it will be of good quality.

18TH LEVEL.

The width of the ore on the main cross cut from the shaft was 200 feet corresponding very closely to the level above. To the East the ore has been opened on the foot wall to connect with this drift. Two raises have been put up from the East drift, and five on the South drift, to within two sets of the 16th level, and a sub opened out at this point. On this sublevel 48 men are stopping the ore from the hanging toward the foot. 100 feet West of the main South cross cut a second cross cut is being driven. This is already across the ore 271 feet, and still has ore in the breast. Beyond the limits of the level above the ore is very high in phosphorus, but this can be accounted for on the supposition that the drift is close to the hanging. The iron however has been very high averaging about 66%. The drift is apparently going with the formation, and will probably extend some distance farther. The work at this point is distinctly encouraging, as the greatest width on any of the upper levels is 215 feet. A rock drift is now being driven West from the main cross cut, and a third cross cut will be started 100 feet West of the one just referred to. This rock drift will be continued until the end of the deposit is reached.

Salisbury.

SALISBURY MINE.

Owing to the great difficulty of maintaining the drifts when in ore, it has been found cheaper to have the men drift well back in the foot wall. It is almost impossible however to so locate the drift, as to be sure that the ground will not draw, and it may be that we shall have the same experience here as on the level above, although this drift is fully 100 feet back of the formation. To the East of the main drift a cross cut is being driven North East to reach the line of the air shaft on the level above. When this connection is completed there will be two outlets for the men to surface.

On November first we started to sink the shaft to the 19th level. During the month of November the shaft was sunk 16 feet. The small footage is accounted for by the fact that it took the men nearly two weeks to clean out and square up the ground below the 18th level.

At no time in the history of the Salisbury has the mine been looking better, and developments during the coming year will doubtless prove up a larger body of ore than has been shown at any one time during the history of the mine.

During the year a new steel cage has been substituted for the old wooden one, which has heretofore been in use. It has been fitted with safety devices, so that in the event of any accident to the rope the lives of the men will not be in danger. Owing to the great depth of this mine, it is necessary to hoist and lower the men, and every precaution has been taken for their safety.

FATAL ACCIDENTS.

There has been one fatal accident during the year. Charles G. Anderson was killed on the morning of March 18th by a fall of ground.

Anderson and his partner had finished work in the stope, and were putting in the lagging and taking out the floors when the timbers came together without any warning. The evidence before the Coroner's Jury shows that the place was Salisbury.

SALISBURY MINE.

apparently perfectly safe, and that the accident was in no way due to the carelessness of the men or bosses. It was simply one of those occurrences, which could not have been foreseen, and which may happen at any time to men engaged in such a hazardous employment. Any man who shall have the same experience here as on the level above, although this drift is fully 100 feet back of the level. To the east of the drift a drift a cross cut is being driven from level down to reach the line of the drift on the level above. For this operation is completed there will be the means for the men to surface.

On November 1st we started to shift the drift to the 11th level.

During the month of November the drift was sunk 10 feet. The drift being in operation for by the fact that it took out the drift was made to reach out to a square to the ground below the 10th level.

At no time in the history of the Salisbury has any time been lost by better, and developments during the coming year will doubtless prove up a large body of ore than has been shown at any one time during the history of the mine.

During the year a new kind of rope has been substituted for the old wooden one, which has heretofore been in use. It has been fitted with safety devices, so that in the event of any accident in the rope the lives of the men will not be in danger. Being to the great depth of this mine, it is necessary to have and lower the men, and every precaution has been taken for their safety.

PAID RECEIPTS.

There has been one fatal accident during the year. Charles F. ... was killed on the morning of ...

Alexander and his partner had ...

DISCUSSION.

apparently perfectly safe, and that the accident was due to the carelessness of the rate or tenant. In the event of these premises, which were not to be used for any other purpose, the rate or tenant is not required to provide any special equipment.

TILDEN MINE.

AVERAGE ANALYSIS OF MINE SAMPLES FOR 1902.

	Iron	Phos
Tilden Silica	40.15	.031

ORE SHIPMENTS FOR 1902.

	<u>This year</u>	<u>Last year</u>
Tilden Silica	4750	10642
Decrease - 55.4% -	5892	

AVERAGE CARGO ANALYSIS FOR 1902.

	Iron
Tilden Silica	43.00

ORE STATEMENT NOVEMBER 30th, 1902.

	<u>This year</u>	<u>Last Year</u>
Output for year	4621	10642
Loaded from old stockpile	129	
Total	4750	10642
Shipments	4750	10642
Balance in stock	0	0
Decrease in output - 55.4% -		

STATEMENT OF COMPARATIVE WAGES FOR 1902.

	1902	1901	Decrease
Total number of days	1367 $\frac{3}{4}$	1585 $\frac{1}{4}$	
Average rate per day	1.95	1.95	
Total amount	2665.10	3084.58	419.48

Tilden.

TILDEN MINE.

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	PRICE	AMOUNT	AMOUNT 1901
40% Powder	1625	.10½	170.63	341.25
Black Powder				51.30
Battery wire	24#	.30	7.20	6.60
Fuse	200'	.425	.85	3.52
Exploders	200	30.10	6.02	7.30
Caps	100	6.00	.60	2.35
Total			185.30	412.32
			1902	1901
Tons ore produced			4621	10642
Lbs Powder per ton of ore			352	390
Cost per ton for explosives			.041	.039
Inc cost per ton			.002	.010 Dec.

AVERAGE WAGES AND PRODUCT.

Product, 4621 tons, 1902.	TOTAL	
	1902	1901
Product, 10642 " 1901		
Average number men working	13	12
Average wages per day	1.95	1.95
Average wages per month of 25 days	48.75	48.75
Average product per man per day	3.38	6.71
Labor cost per ton	.576	.290
Difference in labor cost per ton	.286	.115
Average product breaking and tramping,	9.78	10.61

Tilden.

TILDEN MINE.

STATEMENT OF MINING COST.

	1902	1901	Increase	Decrease
Product	4621	10642		
General Expense	.012	.009	.003	
Maintenance	.049	.000	.049	
Mining Expense	.740	.355	.385	
Cost of Production	.801	.364	.437	
<u>Depreciation.</u>				
Closing Mine	.030		.030	
Total Depreciation	.030		.030	
Taxes	.022	.009	.013	
Cost on stockpile	.853	.373	.480	
Total cost	.853	.373	.480	

(Less tonnage)

Maintenance,

Charges to pocket and derrick .030

Closing Mine

Moving machy, supplies etc to
Ishpeming, less amount rec'd
for supplies sold.

The very high cost of 1902 as compared with 1901, was due to the fact that the mine was practically exhausted, and that instead of having a stope 75 feet high, the average height of the ore taken did not exceed 5 feet. This of course necessitated a very much larger amount of drilling and blasting, and on account of the small product, greatly increased the cost.

In order to secure the amount of ore sold, it was necessary to sink a winze and start a stope below the level of the pit. This was costly, and it was found Tilden.

TILDEN MINE.

that the ore did not go to any depth, and was crossed by several soap rock intrusions.

The ore at this point is practically exhausted. Should there be a market for silicious ore during the coming year, it is recommended that the Ogden Mine be opened. The quality of the ore is almost identical with that of the Tilden, and it could be shipped under the same name.

Fixed charges	1.00	1.00	1.00
Cost of production	1.00	1.00	1.00
Depreciation			
Flowing Mine	1.00		1.00
Total Depreciation	1.00		1.00
Taxes	1.00	1.00	1.00
Cost on stockpile	1.00	1.00	1.00
Total cost	1.00	1.00	1.00

(Each ton)

Maintenance

Charges for pocket and descent .150

Flowing Mine

Leaving stock, supplies and by
 equipment, less amount paid
 for supplies sold.

The very high cost of 1931 as compared with 1930, was due to the fact that the mine was practically exhausted, and that a number of holes were drilled. The average depth of the ore bodies was only about 100 feet. This situation necessitated a very high degree of drilling and blasting, and the expense of the small profit, usually less than the cost.

In order to secure a constant flow of ore, it was necessary to drill a shaft and start a deep mine at the level of the pit. This was done, and the result

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FOSTER MINE.

The balance of the Foster Stock pile was cleaned up during the year, showing a total overrun of 12680 tons.

ORE STATEMENT NOVEMBER 30th, 1902.

	<u>Foster</u>	<u>Last year</u>
On hand December 1st 1901	1200	2329
Stockpile overrun	810	11870
Total	2010	14199
Shipped during year	2010	12999
Balance in stock	0	1200

ORE SHIPMENTS FOR 1902.

Foster	2010	12999
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AVERAGE ANALYSIS OF MINE SAMPLES FOR 1902.


	Iron	Phos
Foster	50.00	.176

LEASES.

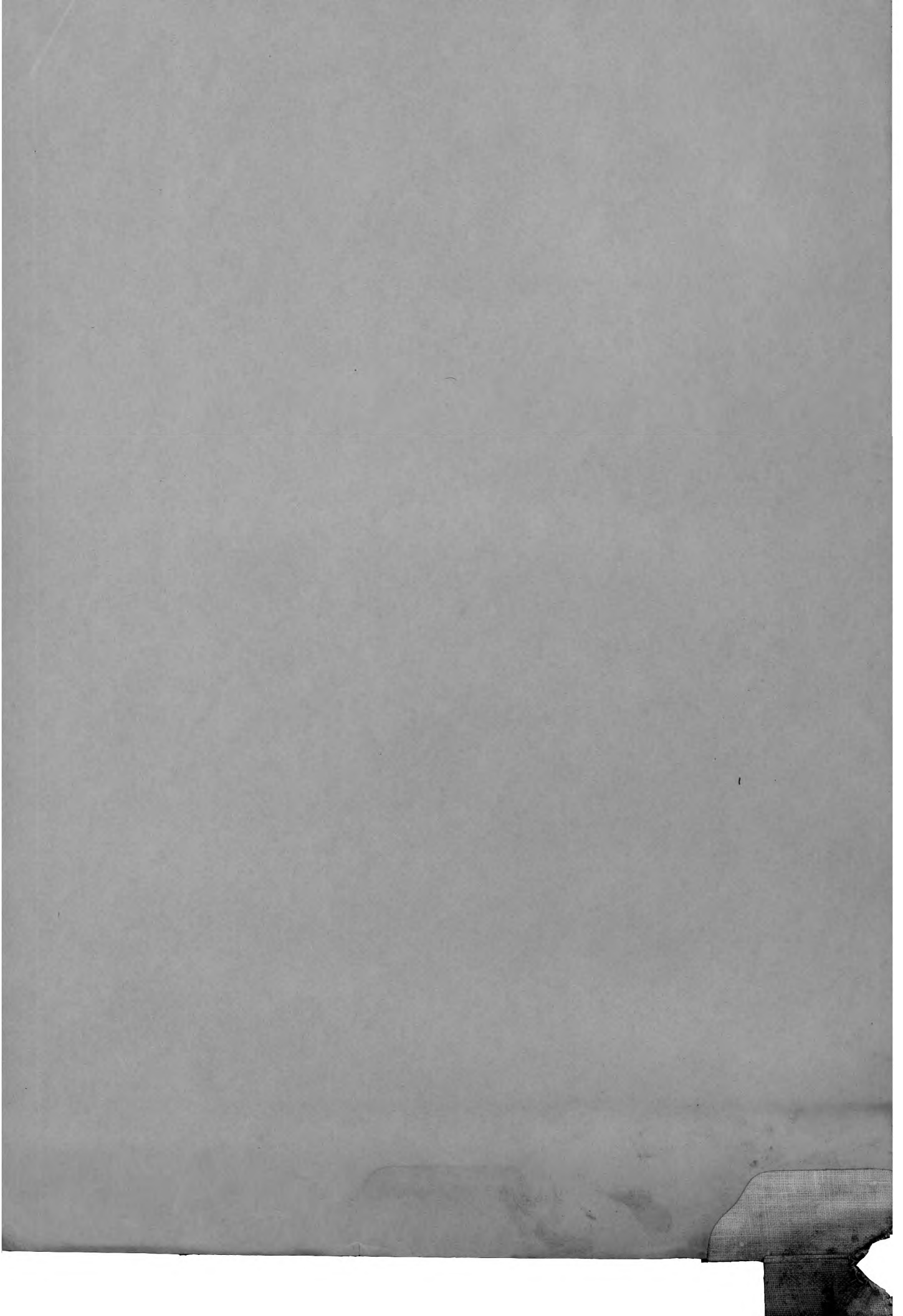
The only outstanding lease is on the East $\frac{1}{2}$ of the S W $\frac{1}{4}$ of Section 19, 47-26, held by Jones and O'Brien. No work has been done by them during the past year, but the ground rent has been regularly paid.

This lease has been transferred to the Empire Iron Co. The assignment having been approved by the President of the Iron Cliffs Company.

Respectfully submitted,


Agent.

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IRON CLIFFS COMPANY
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MISCELLANEOUS=

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THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the ^{Year} ~~Month~~ of *1902* 1901.

Mines	12 months, 1901						12 months, 1902					
	Labor		Supplies		Total		Labor		Supplies		Total	
	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton	Amount	Cost Per Ton
GENERAL EXPENSE,												
Insurance			20170	001	25720	001			23583	001	23583	001
Engineering	24227	001			24227	001	21721	001			21721	001
Analysis	28211	001	120201	007	148412	008	29045	002	118188	007	147233	009
Chief Fund			76590	004	76590	004			72630	004	72630	004
Mine Office	121770	007	27461	002	149231	009	121061	006	31075	002	152136	008
Total,	174208	009	249972	014	424180	023	171827	009	245476	014	417303	023
MAINTENANCE—Repairs of												
Tricks and Yards, &c.	83028	005	9808	000	92836	005	86247	005	9593	000	95840	005
Hooks, Trestles and Buckets	58639	003	22013	001	80652	004	58767	003	32359	002	91126	005
Buildings, &c.	7993	000	13938	002	21931	002	14607	001	12270	000	26877	001
Shop Machinery	201	000	6549	000	6750	000			7382	001	7382	001
Rollers	8651	001	5770	000	14421	001	10132	000	13306	001	23438	001
Hoisting Machinery, &c.	23559	002	226601	013	250160	015	18443	001	142874	008	161317	009
Compressors and Air Pipes	2197	002	3982	003	6179	000	473	000	19434	001	24207	004
Compass and Steam Pumps	46114	002	53869	003	99983	005	57038	003	61263	004	118301	007
(Loc) Trm Engines and Cars	4263	000	2907	000	7170	000	5978	000	7026	001	13004	001
Skips and Skip Roads	155060	008	178638	011	333698	019	112390	007	86212	004	198602	011
Hydroground Tracks and Cars	170480	010	97245	006	267725	016	153818	009	63275	003	217093	012
Steam Pumps	730	000	8155	000	8385	000	800	000	4511	000	5311	000
Total,	560415	031	629475	036	1189890	067	522993	029	459505	025	982498	054
MINING EXPENSE,												
Air Pipes	34382	002	15864	000	50246	002	23928	001	10956	001	34884	002
Compressors	139710	008	227176	012	366886	020	139082	008	226380	012	365462	020
Hoisting	349720	020	572233	032	923953	052	349309	019	547379	031	897288	050
Pumping	280510	016	350461	019	630971	035	282541	016	344859	019	627400	035
Sinking	111604	007	10166	000	121770	007	428839	024	108931	006	537770	020
Drifting	1027671	058	152219	009	1179920	067	675134	037	75915	005	751049	042
Breaking Ore	7178677	402	366491	021	754568	423	6971004	385	407940	023	7378944	408
Tramming	1677641	093	41123	003	1718764	096	1558936	086	43139	002	1602075	088
Shifting												
Timbering	1273815	070	863316	050	2137131	120	973783	054	790196	044	1763979	098
Mining Captain and Bosses	400370	022			400370	022	407725	022			407725	022
Dry House	60060	004	6540	000	66600	004	60225	004	5390	000	65615	004
Top Landing and Tramming	241382	014	36992	002	278374	016	276673	016	41955	002	318228	018
Stocking Ore	33146	002	7320	000	40466	002	34735	002	7320	000	42055	002
Sorting Ore							8719	000	391	000	9110	000
Crushing Ore							4395	000	2525	000	6920	000
Total,	12818345	718	2655505	148	15273850	866	12195028	674	4610557	146	14805685	819
Cost of Production, Per Cwt.	135.52968	758	35.34952	198	170.87920	956	128.89848	712	33.15538	182	16205386	896
EXPLORATORY.												
Exploing in Mines												
Total,												
DEPRECIATION, ETC.												
Inventory					22516	001					57052	003
Improvement											67352	004
New Construction, <i>Eden School</i>					23520	001					71858	004
											196262	011
Total,					46036	002					196037	011
Taxes					498385	029			454721	025	454721	025
Central Office	406170	023	164648	010	571318	033	484125	027	126324	008	630449	035
Total Cost on Stock Pile,	13959638	781	3699600	208	18203659	1020	13373973	739	3916583	217	17488593	967
LOADING AND SHIPPING.												
Blm Shed, 68275-1902	12435		141090		163525	022	13472		179990		193462	027
Bl Shed, 5227-1902	9918		369		10287		96032		6707		102739	197
Bl Shed, 11227-1902	146728		4078		150806	013	132722		6416		140138	013
Shipping Expense									1605		1605	
Total,	169081	009	145537	008	314618	017	243226	013	194718	011	437944	024
Total Cost on Cars,	14128719	790	3845137	216	18518277	1037	13617199	752	4111301	228	17924537	991
Royalty											150	
Owner's and Expense, Cleveland Office											150	
Total Cost,											1141	

ACCOUNTS NOT SHOWN SEPARATELY	1901		1902		Sinking			Drifting			Comparative Cost		
	Amount	Per Ton	Amount	Per Ton	Feet	Cost	Per Ft.	Feet	Cost	Per Ft.	Year	Tons	Cost
New Construction											1898	111481	4443
Improvement					16	121770	7610	2240	1179920	527	1899	136519	1096
Total,					73	337770	7336	12365	751049	608	1900	166635	1052

REMARKS.

5277.70
7510.42
12888.19

1217.70
11799.20
13016.90

ANALYSIS OF LABOR.

Labor as per Cost Sheet, _____
Other Charges, _____
Total, _____

As per Labor Statement, _____
General Pay-Roll, _____
Total, _____

LABOR.

net,

net,

Summary of Supplies Used During *Years 1902, 1901*

THE CLEVELAND-CLIFFS IRON CO. <i>Salisbury</i>	MINE.	COST OF SUPPLIES.		COST PER TON.	
		1902	1901	For 1902	For 1901
Product.				Per Ton	Per Ton
General Supplies,		313652	214714	017	012
Iron and Steel,		116832	90211	006	005
Oil, Grease and Candles,		187545	196829	010	011
Machinery Supplies,		236213	154507	014	009
Building Material,		99793	146883	006	008
Explosives,		333063	339779	019	019
Mine Timber,		808304	761150	046	042
Fuel,		1118474	1112721	062	061
Barn,		53638	44937	003	002
Sundries,		113989	99440	006	006
Total Supplies,		3381603	3161171	189	175
Miscellaneous,		667488	1011980	038	056
Total,		4049091	4173151	227	230
SUMMARY.					
As per Cost Sheet,		3950137	4147775	222	229
Improvement,					
New Construction,					
Other Charges,		98954	25376	005	001
Total,		4049091	4173151	227	230

300

1901
 Salisbury Mine
 Cost Sheet for the Month of

THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the Year of 1902 & 1901.

Cliffs Shaft	Misc.	1902					1901							
		Month of 12 months		Tons			Month of 12 months		Tons					
		Amount	Cost Per Ton	Amount	Cost Per Ton	Total	Amount	Cost Per Ton	Amount	Cost Per Ton	Total			
GENERAL EXPENSE,														
Insurance,				517.72	0.02	517.72	0.02			490.60	0.02	490.60	0.02	
Engineering,	533.95	0.02	16.56	0.00	550.51	0.02	492.45	0.02	10.29	0.00	502.74	0.02		
Analysis,	285.73	0.01	906.47	0.03	1192.20	0.04	304.76	0.01	376.41	0.03	681.17	0.03		
Relief Fund,			142,800	0.05	142,800	0.05			136,590	0.05	136,590	0.05		
Mine Office,	153,948	0.05	2,909	0.02	188,857	0.07	14,7688	0.05	27,236	0.02	185,064	0.07		
Total,				321,784	0.12	557,700	0.20	227,409	0.08	261,684	0.11	489,105	0.19	
MAINTENANCE--Repairs of														
Tracks and Yards,	407.14	0.02	29.33	0.00	436.47	0.02	396.69	0.02	39.78	0.00	436.47	0.02		
Docks, Trussels and Fockets,	531.64	0.02	44,194	0.01	44,725.64	0.03	6,045.32	0.02	16,273.33	0.06	23,023.66	0.08		
Buildings,	1,179.60	0.00	2,355.55	0.01	3,535.15	0.01	4,204.49	0.02	742.26	0.02	1182.73	0.04		
Shop Machinery,	78.25	0.01	76.44	0.00	154.69	0.01	37.80	0.00	39.33	0.00	77.13	0.00		
Batteries,	2,905.53	0.01	587.99	0.02	878.52	0.03	147.49	0.00	300.40	0.02	447.89	0.02		
Hoisting Machinery,	1,207.76	0.02	2,604.00	0.04	4,811.76	0.07	1,621.60	0.03	2,859.2	0.05	4,480.8	0.07		
Compressors and Air Pipes,	923.33	0.00	52.48	0.00	1,448.81	0.00	1,889.3	0.00	212.85	0.01	1,401.78	0.01		
Crushers and Steam Pumps,	1,520.1	0.01	2,454.3	0.01	3,974.4	0.02	3,124.0	0.01	2,541.8	0.01	5,665.8	0.02		
Top Truss Ranges and Cars,	1,359.5	0.00	1,374.7	0.01	2,734.2	0.01	1,731.5	0.01	1,157.3	0.00	2,888.8	0.01		
Skips and Skip Roads,	1,439.5	0.01	83.87	0.00	2,278.2	0.01	1,429.9	0.01	817.5	0.00	2,357.4	0.01		
Underground Tracks and Cars,	2,084.76	0.07	14,293.7	0.05	35,141.3	0.12	21,059.8	0.07	22,146.5	0.09	43,206.3	0.16		
Total,				36,811.2	0.13	72,324.4	0.28	47,126.1	0.17	54,634.9	0.22	1,06,821.0	0.39	
MINING EXPENSE,														
Air Pipes,	1,561.15	0.02	587.19	0.02	12,433.3	0.04	6,918.5	0.03	5,941.4	0.02	12,859.9	0.05		
Compressors,	1,849.32	0.07	774.49	0.02	9,644.3	0.28	1,861.48	0.07	6,959.45	0.25	8,820.93	0.32		
Hoisting,	3,647.65	0.13	3,906.29	0.14	7,542.94	0.27	3,549.30	0.13	3,499.27	0.12	7,048.57	0.26		
Pumping,	2,874.66	0.10	8,005.65	0.29	10,880.31	0.39	2,743.45	0.10	7,190.99	0.26	9,934.44	0.36		
Sinking,	2,252.23	0.08	6,536.5	0.22	2,908.88	0.10	9,226.5	0.33	2,888.0	0.10	12,114.5	0.44		
Drifting,	2,496.19	0.09	6,715.90	0.25	3,267.79	0.11	2,624.25	0.09	6,706.31	0.25	3,299.88	0.12		
Hoisting Ore,	7,084.11	0.25	20,479.47	0.73	9,132.98	0.32	7,140.79	0.26	19,870.5	0.72	9,828.47	0.35		
Tramming,	5,251.78	0.18	2,454.4	0.09	5,447.32	0.19	4,967.68	0.18	2,500.91	0.09	5,217.49	0.19		
Filling,	1,034.29	0.04	514.03	0.02	1,088.32	0.04	1,092.42	0.04	81.27	0.00	1,173.69	0.04		
Hoisting,	1,136.17	0.04	4,933.36	0.05	1,629.53	0.06	1,248.23	0.05	5,934.5	0.07	1,841.68	0.07		
Hoisting Captain and Hoases,	4,879.06	0.18			4,879.06	0.18	4,879.06	0.18			4,879.06	0.18		
Dry Houses,	705.12	0.03	53.74	0.00	758.86	0.03	701.11	0.03	416.3	0.00	742.74	0.03		
Pan Landing and Tramming,	8010.89	0.29	1,226.32	0.04	9,237.21	0.33	7,237.68	0.27	8,449.51	0.30	8,367.19	0.31		
Sinking Ore,	1,152.50	0.04	707.6	0.00	1,223.26	0.04	1,498.10	0.05	858.7	0.03	1,579.97	0.06		
Sorting Ore,	829.02	0.03	89.94	0.00	838.99	0.03	733.05	0.03	665.51	0.00	734.62	0.03		
Crushing Ore 400-229, 124 1/2" 1901-241.5 300 1/2"	7,278.46	0.27	3,602.78	0.14	11,231.74	0.49	8,179.84	0.30	5,606.26	0.20	13,786.10	0.50		
Total,				690	561	2,012	2,484	1,414	891	18,942	1,644	25,230	2,012	
Cost of Production, per Ton,				713	630	226	262	939	196	638	734	262	939	
EXPLORATORY.														
Exploing in Mines,	1,996.29		3,344.83		5,341.12	0.19	1,068.93		2,073.75		3,142.68	0.12		
Total,				0.12	5,341.12	0.19	1,068.93	0.04	2,073.75	0.08	3,142.68	0.12		
DEPRECIATION, ETC.														
Inventory,					2,241.04	0.08					3,391.97	0.12		
Improvement,					4,055.52	0.02					3,468.58	0.13		
Roll Construction,					4,804.04	0.17					7,991.0	0.03		
Fidelity					9.60						393.00	0.01		
Warrant					342.70	0.02					69.50	0.00		
Credits					45.37						798.35	0.03		
Total,					7,457.72	0.29					15,638.15	0.57		
Wages,					1,737.62	0.06					744.97	0.03		
Miscellaneous Office,	6,287.05	0.23	2,182.72	0.08	8,570.77	0.31	5,752.58	0.21	16,474.4	0.06	7,449.97	0.27		
Total Cost on Stock Pile,				743	685	716	246	301	1,114	82	1,082	203	236	
LOADING AND SHIPPING.														
Cart Road,			3,824.20		3,824.20	0.18			1,643.56		1,643.56	0.24		
Wagon									39.54		1,856.05	0.12		
Wagon (1.12)	2,162.78		3,800		2,201.58	0.13	1,816.51		494.25		494.25	0.03		
Shipping Expense,	1,379.22		6.66		1,445.88		91.56		75		92.31			
Total,				0.08	4,346.66	0.16	6,447.66	0.24	1,908.07	0.07	2,778.10	0.06	4,086.17	0.15
Total Cost on Cars,				751	729	1,857	262	308	322	48	110	205	144	
Summary,					150						150			
Wages and Expense, Cleveland Office,					1,456						1,456			
Total Cost,					1,343						1,343			

Amount per yard of	1902		1901		Sinking			Drifting			Comparative Cost			Comparative Cost		
	Annual	Per Ton	Annual	Per Ton	Feet	Tons	Per Ft.	Feet	Tons	Per Ft.	Tons	Cost	Yds.	Tons	Cost	
New Construction, Improvement,					50	2,908.88	58.17	380.9	316.77	0.9	1,648	18,784	1.14			
Total,						12,114.5		3,291	3,294.82	1.24	1,900	26,433.0	1.14			

REMARKS.

1902
A. C. Hill of Credits
 Miscellaneous Wages 38.77
 Shop Earnings 6.60
45.37

1901
 Miscellaneous Wages 56.16
 Shop Earnings 13.34
69.50

ANALYSIS OF LABOR.

Labor as per Unit. Cost.
 Other Charges.
 Total.
 As per Labor Statement,
 General Pay-Roll.
 Total.

Summary of Supplies Used During *Years 1900 & 1901.*

THE CLEVELAND-CLEFFS IRON CO. <i>Sally Sheet</i>	MINE.	COST OF SUPPLIES.		COST PER TON.	
		1900	1901	For 1900	For 1901
Product.				Per Ton	Year.
General Supplies,		494406	453292	018	017
Iron and Steel,		251207	268876	009	010
Oil, Grease and Candles,		468657	494460	017	018
Machinery Supplies,		659773	655947	024	024
Building Material,		206448	330812	007	012
Explosives,		2065890	2005302	074	073
Mine Timber,		50242	88427	002	002
Fuel,		2273767	2098108	082	077
Barn,		2300	1074	000	000
Sundries,		119347	108321	004	004
Total Supplies,		6592037	6504619	237	238
Miscellaneous,		1324310	23.12194	048	085
Total,		7926347	88.16813	285	323
SUMMARY.					
As per Cost Sheet,		7704323	88.16564	276	323
Improvement,					
New Construction,		22024		009	
Other Charges,			249		000
Total,		7926347	88.16813	285	323

2

1901
 Cost Sheet for the Month of
Sally Sheet
 Mine.

THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the Month of November 1902

Mine.	Month of <u>November</u> , 190 <u>2</u>						12 Months, 190 <u>2</u>		12 Months, 190 <u>1</u>	
	Labor.		Supplies.		Total.		Tons.		Tons.	
	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.	Amount.	Cost Per Ton.
GENERAL EXPENSE.										
Insurance,			60 95		60 95		60 95		57 26	
Engineering,								51	5 84	
Analysis,										
Relief Fund,										
Mine Office,									8 75	
Total,			60 95		60 95		61 46		71 85	
MAINTENANCE—Repairs of										
Tracks and Yards,										
Docks, Trestles and Pockets,										
Buildings,										
Shop Machinery,										
Boilers,										
Hoisting Machinery,										
Compressors and Air Pipes,										
Cornish and Steam Pumps,										
Top Tram Engines and Cars,										
Skips and Skip Roads,										
Underground Tracks and Cars,										
Total,										
MINING EXPENSE.										
Air Pipes,										
Compressors,										
Hoisting,										
Pumping,										
Sinking,										
Drifting,										
Breaking Ore,										
Tramming,										
Filling,										
Timbering,										
Mining Captain and Bosses,										
Dry House,										
Top Landing and Tramming,										
Stocking Ore,										
Sorting Ore,										
Total,										
Cost of Production,			60 95		60 95		61 46		71 85	
Per Cent,										
EXPLORATORY.										
Exploring in Mines,										
Total,										
DEPRECIATION.										
Inventory,										
Improvement,										
New Construction,										
Total,										
Taxes,					211 89		211 89		211 89	
Central Office,										
Total Cost on Stock Pile,			60 95		272 84		273 35		315 81	
LOADING AND SHIPPING.										
Steam Shovel,	Tons,									
By Hand,	"								355 67	112
At Pocket,	"									
Sorters (L & B),	"									
Shipping Expense,										
Total,										
Total Cost on Cars,									671 48	
Royalty,										
Comm'n and Expense, Cleveland Office,										
Total Cost,										

ACCOUNTS NOT SINK OFF.	Mos.		Mos.		Sinking.			Drifting.			Comparative Cost.			
	Amount	Per Ton	Amount	Per Ton	Feet	Cost	Per Ft.	Feet	Cost	Per Ft.	Year	Mos.	Tons	Cost
New Construction,					Current Mo.									
Improvement,					Mos.									
Total,					Mos.									

REMARKS.

ANALYSIS OF LABOR.
Labor as per Cost Sheet,
Other Charges,

As per Labor Statement,
General Pay Roll,
Total,

THE CLEVELAND-CLIFFS IRON CO.	COST OF SUPPLIES.			COST PER TON.	
	MINE.	Month.	Year.	For	For
	Product.			Mo.	Year.
General Supplies,					
Iron and Steel,					
Oil, Grease and Candles,					
Machinery Supplies,					
Building Material,					
Explosives,					
Mine Timber,					
Fuel,					
Barn,					
Sundries,					
Total Supplies,					
Miscellaneous,			3		
Total,					
SUMMARY.					
As per Cost Sheet,					
Improvement,					
New Construction,					
Other Charges,					
Total,					

Wm. H. Foster
 1902
 Cost Sheet for the Month of
 Mine.

IRON CLIFFS COMPANY

COST OF DIAMOND DRILLING, CLIFFS SHAFT MINE YEAR ENDING
NOVEMBER 30TH. 1902

LABOR	DAYS	AMOUNT	COST PER FT.
Foreman & Setter	89 1/2	435 11	.224
Operating	723 3/4	1537 37	.790
Shop Labor & Repairing		23 81	.012
TOTAL	813 1/4	1996 29	1.026
<u>SUPPLIES</u>			
Fuel & Light		176 81	.091 ✓
Oil & Waste		29 79	.015
Bits & Tools		49 87	.026
Repairs etc.		184 54	.095
Carbon 55 ⁶² / ₆₄		2520 67 ✓	1.296
General Supplies		31 40	.016
TOTAL		2993 08	1.539
Additions to Equipment, Rental etc.		351 75	.181
TOTAL COST		5341 12 ✓	2.746
		<u>1902</u>	<u>1901</u>
Total Feet Drilled		1945	1203
Average ft. per day of 10 hrs.	285	6.82	6.66
" " " man per day	813 1/4	2.39	2.66
Feet per karat of Carbon		34.73	34.04
Average cost of carbon per karat		45.00	46.23
" " per foot		2.746	2.612

Iron Cliffs Co.

*Cost of Diamond Drill Work
Cliff Shaft Mine.*

" "	Per Foot	8.440	8.618
Average cost of carbon per meter		42.00	48.32
Per meter of carbon		34.73	34.04
" " New per day	813 1/4	8.33	8.98
Average ft. per day of 10 hrs.	382	8.33	8.88
Total feet drilled		1342	1802
		1208	1301
TOTAL COST		2247 78	2,440
Additions to Equipment, Rental etc.		221 42	181
TOTAL		2469 20	2,621

General Supplies		21 40	.018
Carbon		2280 84	1.338
Rentals etc.		184 24	.032
Bricks & Tools		43 84	.026
Oil & Waste		89 43	.012
Light		142 91	.021
Expenses			
TOTAL	813 1/4	1338 30	1.038
Operating Labor & Repairs		82 81	.018
Operating	82 3/4	1321 11	1.056

Foreman & Setter	83 1/3	420 11	.894
Labor			
DAYS	AMOUNT	COST PER FT.	

COST OF DIAMOND DRILLING, CLIFFS SHAFT NINE YEAR ENDING
 THOM CLIFFS COMPANY

IRON CLIFFS COMPANY

ANALYSIS OF IMPROVEMENT AND NEW CONSTRUCTION

NOVEMBER 30TH., 1902.

CLIFFS SHAFT MINE	INVENTY NOV.30 1901		EXPEN. FOR YEAR		TOTAL		DEPREC 'N FOR YEAR		INVENTY NOV.30 1902		CHGD TO OTHER ACCTS		
NEW CONSTRUCTION													
Dry House			6867	03	6867	03	4804	04			2060	99	A
IMPROVEMENT													
New Heating System			170	88	170	88	170	88					
General Office Vault			104	64	104	64	104	64					
General Office Painting			130	00	130	00	130	00					
TOTAL			405	52	405	52	405	52					
STEAM SHOVEL NO.3	1233	90					777	90			456	00	B
Cliff Shaft Dep.			542.70										
Salisbury Dep.			235.20										
Pioneer Iron Co.			456.00										
Total			1233.90										
TOTAL IRON CLIFFS CO	1233	90	7272	55	7272	55	5987	46			2518	99	
DIVIDED AS FOLLOWS													
Cliffs Shaft Mine							7815	25					
Salisbury Mine							235	20					
Pioneer Iron Co.							456	00					
TOTAL							8506	45					

(Does not include)
(Inventory Depreciation)

A- Charges to "Fire Loss" Accts.
Against Excess on other
losses paid.

B- Earnings for rent of Shovel
to Pioneer Iron Co. 1902

5

Iron Cliffs Co.

*Analysis of improvement
New Construction*

B- to Pioneer Iron Co. 1908
 Balance for rent of Shovel
 losses paid.
 Against Excess on other
 charges for "Wire loss" Accts.

(Inventory Depreciation)
 (Does not include)

TOTAL 8209 42
 Pioneer Iron Co. 428 00
 Salsbury Mine 332 30
 Cliffs Shaft Mine 312 32
 DIVIDED AS FOLLOWS

TOTAL IRON CLIFFS CO 1333 30 3333 22 3333 22 2384 48 3218 30

TOGET	1333.30								
Pioneer Iron Co.	428.00								
Salsbury Mine	332.30								
Cliffs Shaft Mine	248.10								
TOTAL	1333.30								
IRON SHOVEL NO. 3		1333 30							
LEVEL		402 28	402 28	402 28	402 28				
Office Printing		130 00	130 00	130 00	130 00				
Office Salary		104 84	104 84	104 84	104 84				
Office Supplies		110 88	110 88	110 88	110 88				
IMPROVEMENT									
NEW CONSTRUCTION		9361 03	9361 03	9361 03	4804 04				3060 33

1901 YEAR
 NOV. 30 FOR
 TRAILING EXPEN. TOTAL DEPREG. IN TRAILING CHGD TO
 NOVEMBER 30TH. 1908.

ANALYSIS OF IMPROVEMENT AND NEW CONSTRUCTION

IRON CLIFFS COMPANY

IRON CLIFFS COMPANY

CLIFFS SHAFT MINE

STATEMENT OF RENTED HOUSES, SHOWING RENTS RECEIVED
COST OF REPAIRS ETC. FOR THE YEAR ENDING
NOVEMBER 30TH., 1902

HOUSE NO.	PRESENT OCCUPANT	LOT NO.	RENT RECD.	RE-PAIRS	INS-UR-ANCE	TAXES	TOTAL EXPENSE
A	A.J.Yungbluth		132 00	272 77	10 00	61 02	345 79
B	Duncan Campbell	)	72 00	80 03	6 00	40 05	126 08
B	Harry Whittington	)	72 00				
C	C.J.Shaddick		120 00	165 72	5 00	36 24	206 96
1	Terry Dougherty		54 00	19 94	2 00		21 94
2	Mike Collins	)	60 00	15 02			
2	Geo. Oatman	)	60 00	9 63	3 00		27 65
3	D.J.Campbell		60 00	5 03	1 50		6 53
4	John Beale	)	78 00	17 42			
5	Otto Schodt	)	60 00	9 64	4 00		31 06
5	And. Deuette	)	60 00	11 37			
5	John Sandell	)	35 00	30 41	3 00		45 28
75	David Powers		57 50	34 97	2 50		37 47
76	D.E.Maloney		60 00	21 77	2 50		24 27
	Herman Elson		360 00	21 33	25 15		46 48
TOTAL			1340 50	717 55	64 65	137 31	919 51
TOTAL 1901			1344 50	513 51	72 75	127 33	713 59
Net Earnings for year			1902 420 99				1901 630 91
Per cent earnings on Insurance Valuation			%	4.02			7 %
Insurance Valuation			10400 00				10300 00

NOTE:- Ledger Balance 1352.50
 Amt.in Oct.1902 credited to Cliffs Shaft Rents instead of Salisbury Rents in error 12.00

TOTAL CLIFFS SHAFT 1340.50

IRON CLIFFS COMPANY

SALISBURY MINE

**STATEMENT OF RENTED HOUSES, SHOWING RENTS RECEIVED
COST OF REPAIRS ETC. FOR THE YEAR ENDING
NOVEMBER 30TH., 1902**

HOUSE NO.	PRESENT OCCUPANT	RENTS RECD.		RE-PAIRS		INS-UR-ANCE		TAXES	TOTAL EXPENSE	
1	Thoamas Buzzo	144	00	18	29	10	25		28	54
2	W.M. Sterling	96	00	21	70	5	00		26	70
3	Jos. Mathews	104	00	39	65	4	00		43	65
4	W.C. Quayle	24	00	3	92		25		4	17
5	Benjamin Lessee	48	00							
5	John Christian	42	00	21	01	5	00		26	01
6	Phil. Christian	72	00	15	13	3	00		18	13
7	F. Collett	36	00	8	85		75		9	60
9	Robt. Morris	36	00	7	88		50		8	38
10							75			75
14	Jos. Graham	42	00	6	69		38		7	07
15	Wm. Gauthier	30	00	3	87		38		4	25
16	Mrs. A. Williams	42	00	9	33	2	00		11	33
17	Geo. Kermode	72	00	7	25	1	50		8	75
18	Ras. Anderson	27	50							
18	Mrs. Wm. Conibear	10	00	24	86	1	00		25	86
19	Chris Hanson	42	00	13	37	1	00		14	37
20	John Larson	12	00	32	12	1	00		33	12
22	Walter Vicary	96	00	23	20	5	00		28	20
23	Albert Barton	42	00							
23	Wm. Cowley	54	00	7	74	5	00		12	74
24	Wm. Pemberthy	54	00							
24	John Kermode	42	00	18	65	5	00		23	65
25	Thos. Creer	96	00	10	25	5	00		15	25
26	John Cain	54	00							
26	Thos. Cloque	42	00	16	80	5	00		21	80
27	O.B. Wills	96	00	8	19	5	00		13	19
28	John Lawrence	60	00	10	74	2	50		13	24
29	Ant. Forget	60	00	13	63	2	50		16	13
30	John Stephens	60	00	15	17	2	50		17	67
31	Robt. Corkin	60	00	15	05	2	50		17	55
32	Thos. Perkins	60	00	28	08	2	50		30	58
33	John Jenkins	59	00	9	45	2	50		11	95
Office	Thos. Garrett	48	00							
"	Chas. Kenword	48	00	14	72	2	50		17	22
TOTAL		1910	50	425	59	84	26		519	85
TOTAL 1901		1906	75	94	68	83	49		178	17

Net Earnings	1902	1901
Per cent earnings on insurance	1390 65	1728 58
Valuation	8.33	10.35
Insurance Valuation	16700 00	16700 00

NOTE:- Ledger Balance 1898 50
 Amt. In Oct. 1902 credited to Cliff Shaft Rent instead of Salisbury Rents through error 12 00
TOTAL Salisbury 1910 50

IRON CLIFFS COMPANY

FOSTER MINE

STATEMENT OF RENTED HOUSES, SHOWING RENT RECEIVED
 COST OF REPAIRS ETC. FOR THE YEAR ENDING
 NOVEMBER 30TH., 1902

HOUSE NO.	PRESENT OCCUPANT	LOT NO.	RENT RECD.		RE-PAIRS	INS-UR-ANCE		TAXES	TOTAL EXPENSE	
1										
2										
3										
4										
5										
6										
7										
8										
9	Chas. Cox			9 00						
10										
11	Mrs.H.S.Dahl			5 00						
12										
13										
14										
15										
16										
	TOTAL			14 00			18 45			18 45
	Net Loss		1902	4 45		1901	12 50			
	Insurance Valuation		2550 00			2550 00				

Iron Cliffs Co.

Statement of Rented Rooms etc
Cliff Shaft, Salisbury & Foster

STATEMENT OF RENTED ROOMS ETC. SHOWING RENT RECEIPTS

NOVEMBER 30TH. 1908
 COST OF DEPARTS ETC. FOR THE YEAR ENDING

FOSTER MINE

IRON CLIFFS COMPANY

MONTH	RENT	RECEIPTS	EXPENSES	TOTAL
10				
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
TOTAL				

RENT RECEIPTS

1908

TOTAL

\$220 00

4 42

1909

\$220 00

18 20

1907

14 00

18 42

18 42

Mrs. H. S. Day

Miss Cox

2 00

3 00

IRON CLIFFS COMPANY .

RECORD OF COST FOR SHOP WORK AT CLIFFS SHAFT SHOP FOR YEAR
ENDING NOVEMBER 30TH., 1902

	1901	1902	1901	1902	1901	1902
	Machine Shop		Blacksmith Shop		Carpenter Shop	
Average Number of men	3	3	10	10	2	2
Total No. hrs. worked	8762.5	8862.5	29282.5	28922.5	5945	5705
Hours on Shop Tools etc	226	326	385.5	519	62	139
" " Various persons	16	23.5	20	61	25	11
" " Mine Accounts	8520.5	8513	28877	28342.5	5860	5555
Total cost per hour	.253	.250	.237	.239	.219	.211
Cost per hr. on shop tools	.253	.250	.237	.239	.219	.211
" " " Various Accts.	.260	.259	.240	.239	.221	.216
Cost " " Mine " "	.260	.259	.240	.239	.221	.216
Total Labor Cost	1826.03	1816.10	5964.52	5886.58	1285.53	1193.13
Cost per hour	.208	.205	.204	.204	.216	.209
Total Supply Cost	392.36	396.49	989.25	896.11	15.46	10.81
Cost per hour	.045	.045	.033	.031	.003	.002
<u>Total Labor & Sup. Cost</u>	2218.39	2212.59	6953.77	6782.69	1300.99	1203.94
Profit on work Done for Various persons & Mines Other than cliff Shaft	2.26		1.62	(Dec. 01) (only) .19	2.76	
Average Chgs. per hr. to Var. persons & Mines	.394	.251	.310	.233	.329	.205
Profit or Loss per hour var. persons & Mines	P .134	L .008	P .070	L .006	P .108	L .011
<u>SUPPLIES USED AS FOLLOWS</u>						
General Supplies	39.31	32.00	731.43	617.62	11.22	6.33
Iron & Steel	2.83	1.32	4.39	1.75		.39
Oil Grease & Candles	32.04	23.07	4.51	6.71	.12	
Machinery Supplies	1.40	23.62	12.68	25.98		
Building Material		.51	.64	1.02		
Fuel	297.70	303.99	148.84	164.18		1.46
Sundries	19.08	11.98	86.76	78.85	4.12	2.63
<u>TOTAL</u>	392.36	396.49	989.25	896.11	15.46	10.81

Iron Cliffs Co.

*Statement of Cost for Shop
work at Cliffs Shaft.*
Year ending Nov. 30, 1908

Supplies		238.32	230.43	334.82	234.71	12.45	10.81
Fuel		19.08	11.38	88.78	43.92	4.13	3.03
Building Material		337.70	302.39	143.84	194.18		1.40
Machinery Supplies		1.40	.21	.04	1.03		
Oil Grease & Candles		23.04	23.04	4.21	38.38		1.38
Iron & Steel		3.82	1.22	4.20	9.41		.20
General Supplies		20.21	28.00	121.42	97.82	11.32	0.22

SUPPLIES USED AS FOLLOWS

Wt. Persons & Mines		134	.002	.040	.000	.103	.011
Profit on Loss per Hour	P		F	F	F	F	F
Wt. Persons & Mines		334	.221	.210	.222	.223	.209
AVG. PER CUB. YD. PR. TO							
Other than Cliff Shaft		3.32		1.82	.72	3.72	
Various Persons & Mines							
Profit on Work Done for							
TOTAL LABOR & SUP. COST		2218.23	2227.23	2222.77	2222.82	2200.02	1802.34

Cost per Hour

Shop Cost	042	042	062	021	002	062
Hourly Cost	208.32	230.43	334.82	402.71	12.45	10.81
Hourly Cost	308	302	204	204	210	200
Wt. Mine	380	323	370	322	381	218
" Persons	380	323	340	322	381	218
" Various	323	320	321	330	313	313
Wt. on Shop Tools	323	320	321	322	313	313
Wt. Accounts	2230.2	2213	2281.2	2222.2	2220	2222
" Persons	10	22.2	20	21	22	11
Wt. on Shop Tools etc	223	229	222.1	212	22	113
TOTAL Wt. hrs. worked	2428.2	2382.2	2222.2	2222.2	2042	2102
Average number of men	3	2	10	10	3	3

RECORD OF COST FOR SHOP WORK AT CLIFFS SHAFT SHOP FOR YEAR
ENDING NOVEMBER 30TH, 1908
IRON CLIFFS COMPANY.

IRON CLIFFS COMPANY .

CLIFFS SHAFT MINE.

RECORD OF DELAYS FROM VARIOUS CAUSES, YEAR ENDING NOV.30TH.1902.

	Hours Delay	Tons Lost	Percent of time Lost	
			1902	1901
Fatal Accidents	30	1500	.091	.074
Skips, Skip Roads & Bell Lines	4	200	.012	.004
Hoisting Machinery	1	50	.003	.074
Top Tram Engines & Cars	1	50	.003	.019
Crusher Repairs	14		.042	.204
Fire In Mine & Plant		50		.120
Rain & Snow				.004
<u>TOTAL</u>	50	1850	.151	.429
Holidays	280	13160	.849	.501
<u>TOTAL INCLUDING HOLIDAYS</u>	330 ¹ _{16¹/₂}	15010	1.000	1.000
No. Days 20 Hrs per Day				
Actual Product for Year		279002		
Average Product pr Day for Yr.		939		
No. Full Days Mine Worked for Yr.		295 ¹ / ₂		
Number Days Idle		16 ¹ / ₂		
Lost Product (Excluding Holidays)		1850		

FIXED CHARGES Amts. Not Effected When Mines Are Idle	Tons	Cost	Amount
General Expense (Exc. Analysis & (Relief Fund		.011	2956 80
Taxes		.064	17737 62
Maintenance		.028	7836 44
Air Pipes		.004	1243 34
Pumping		.039	10880 31
Mining Captain		.009	2500 00
Exploring		.019	5341 12
Depreciation		.029	7957 73
<u>TOTAL</u>		.203	56453 36
Total Cost on Stock Pile for (year Actual	279002	1.082	301664 82
Less Fixed Chgs. Cost pr Ton		.203	
Cost of Lost Product	1850	.879	1626 15
Possible Product & Cost	280852	1.080	303290 97
Loss or the Difference Between Actual & Possible Cost and the Amt.	280852	.002	561 70
Ditto for 1901	284268	.009	2558 41

DIFF TO 1901

AMOUNT & CHARACTER OF COST AND THE AMT. LOSS OR THE DIFFERENCE BETWEEN

884588	000.	8228 41
880828	000.	281 40
880828	1.080	203300 39
1820	878.	1838 12
880008	1.088	201884 88
	303.	28423 38
	033.	1321 13
	013.	2241 13
	003.	8200 00
	023.	10880 31
	004.	1842 34
	088.	1828 44
	084.	11231 83
	011.	8828 80

CHARACTER OF COST
COAT OF ROOF PRODUCTION
GENERAL EXPENSES (EXC. AMOUNTS)

TOTAL

DEPRECIATION
EXHAUSTION
MINING EXPENSES
WINDING
WATER POWER
MAINTENANCE
TAXES

GENERAL EXPENSES (EXC. AMOUNTS & AMT. IDLE)

AMOUNTS NOT REFLECTED WHEN MINING EXPENSES CHARGED

TONS COST AMOUNT

ROOF PRODUCTION (EXCLUDING HOLIDAYS)
AMOUNT DUE TO IDLE
NO. DAYS DUE TO WINDING TOE L.L.
AMOUNT PRODUCTION DUE TO WINDING TOE L.L.
AMOUNT PRODUCTION TOE L.L.

1820
18 1/2
882 1/2
823
880008

NO. DAYS SO HAS BEEN DUE

TOTAL INCLUDING HOLIDAYS

182
230

12010

1.000 1.000

HOLIDAYS

TOTAL

880 12180
20 1320

884.
201

WATER & SNOW
LOSS TO WINDING & WINDING
CUMULATIVE DEPRECIATION
LOSS TOE L.L. PRODUCTION & COSTS
WINDING PRODUCTION
SKIPS, SKID ROADS & BELT RINGS
WATER ACCIDENTS

20
20
20
800
1200

400.
081.
408.
013.
014.
400.
400.

DETAILED COST TONS

1800
PERCENT OF PRODUCTION

RECORD OF DELAYS FROM AVOIDABLE CAUSES, YEARS ENDING NOV. 30, 1901-1908.
SHIFTS SHALF MINE.

FROM OFFICES COMPANY

Cliffs Shaft Mine
Record of Delays

IRON CLIFFS COMPANY

SALISBURY MINE

RECORD OF DELAYS FROM VARIOUS CAUSES, YEAR ENDING NOV.30TH.1902

	Hours Delay	Tons Lost	Percent of time lost	
			1902	1901
Fatal Accidents	52	1300	.098	
Skips, Skip Roads & Bell Lines	104	2615	.195	.116
Hoisting Machinery	7	85	.013	.060
Shaft & Shaft House Repairs	6	65	.011	
Miscellaneous	3		.006	
<u>TOTAL</u>	172	4065	.323	.176
Holidays	360	9060	.677	.824
<u>TOTAL INCLUDING HOLIDAYS</u>	532	13125	1.000	1.000
No. Days - 24 Hrs Pr. Day	22			
Actual Product for Year		178686		
Average Product Pr. Day for Yr		603		
No. Full Days Mine Worked for Yr		290		
Number of Days Idle		22		
Lost Product (Exc. Holidays)		4065		

FIXED CHARGES		Tons	Cost	Amount	
Accts. Not Effected When Mines Are Idle					
Gen. Expense, (Except Analysis & (Relief Fund)			.011	1991	78
Taxes			.029	4983	85
Maintenance			.067	11898	90
Air Pipes			.002	502	46
Pumping			.035	6309	71
Mining Captain			.010	1800	00
Depreciation			.002	460	36
<u>TOTAL</u>			.156	27947	06
Total Cost on Stock Pile For Yr (Actual)		178686	1.020	182036	59
Less Fixed Chgs. Cost Per Ton			.156		
Cost of Lost Product		4065	.864	3528	16
Possible Product & Cost		182751	1.015	185564	75
Loss or the Difference Between Actual & Possible Cost and the Amt.		182751	.005	913	76
Ditto 1901		181918	.002	363	84

Diffc 1201

Actual & Reserve Cost and the amt.
Yours of the Difference Between

Reserve Product & Cost
Cost of Lost Product
Less Fixed Carga. Cost per Ton
(Actual
Total Cost on Stock File for Yr

TOTAL

DEPRECIATION
MINING EXPENSE
LUMBER
AIR LINES
MAINTENANCE
TAXES

Gen. Expense, (Except Amalgam &
(Better Lump

are idle

Actuals - Not Estimated - West Mine
FIXED CHARGES

Cost Product (Excl. Holidays)
Number of Days Idle
No. Mtg Days Mine Worked for Yr
Average Product per Day for Yr
Actual Product for Year

NO DAYS - 24 hrs per day

TOTAL INCLUDING HOLIDAYS

HOLIDAYS
TOTAL

Miscellaneous
Self & Staff Home Repairs
HOLIDAYS INCLUDING
SKIDS, SKID ROLLS & Belt Lines
LATER ACCIDENTS

121218 222 84

127821 212 12

128221 182224 12
4024 2222 12

128221 123222 22

2222 22

2222 22

2222 22

2222 22

2222 22

2222 22

2222 22

2222 22

Salisbury Mine Record of Delays

121218 222 84
127821 212 12
128221 182224 12
4024 2222 12
128221 123222 22

2222 22
2222 22
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222 22

222 22
222 22

RECORD OF DELAYS FROM ADVIOUS CAUSES, YEAR ENDING NOV. 30, 1901.

FROM GIFTS COMPANY

PERCENT OF TIME LOST
1201 222

222 22

222 22
222 22
222 22

222 22
222 22
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222 22

222 22
222 22

222 22
222 22
222 22

222 22

IRON CLIFFS COMPANY

**TILDEN MINE
RECORD OF DELAYS FROM VARIOUS CAUSES, YEAR ENDING NOV.30TH,1902**

	Hours Delay	Tons Lost	Percent of Time Lost	
			1902	1901
Compressor & Air Pipes	20		.189	
Hoisting Machinery				.025
Top Tram Engines & Cars				.250
Car Shortage	36		.339	
Rain & Snow	20	100	.189	.225
Miscellaneous	10	50	.094	.125
TOTAL	86	150	.811	.625
Holidays	20	104	.189	.375
TOTAL INCLUDING HOLIDAYS	106	254	1.000	1.000
No.Days 10 Hrs.Pr. Day	10 ¹ / ₂			
Actual Product for Year	4621			
Average Product Pr.Day For Yr.	52			
No.Full Days Worked for Yr.	83 ¹ / ₂			
Number Days Idle	10 ¹ / ₂			
Lost Product (Exc.Holidays)	150			

FIXED CHARGES Accounts Not Effected When Mines Are Idle	Tons	Cost	Amount	
General Expense (Except Analysis & (Relief Fund		.005	22	37
Taxes		.022	100	65
Maintenance		.049	226	01
Mining Captain		.085	392	31
Depreciation		.030	137	63
TOTAL		.191	878	97
Total Cost on Stock Pile for Yr. (Actual	4621	.853	3943	61
Less Fixed Chge. Cost Pr.Ton		.191		
Cost of Lost Product	150	.662	99	30
Possible Product & Cost	4771	.847	4042	91
Loss or the Difference Between Actual & Possible Cost & The Amt.	4771	.006	28	63
Ditto 1901	11442	.003	34	53

12

Tilden Mine Record of Delays

Diffc 1901	11448	.003	24 22
Actual & Possible Cost & The Amt. Loss on the Difference Between	4441	.006	52 03
Possible Product & Cost	4441	.845	4048 01
Cost of Lost Product	150	.088	89 20
Less Fixed Chge. Cost Pr. Ton (Actual)	4291	.731	2943 01
Total Cost on Stock Pile for Yr.		.922	
TOTAL		.731	848 34
Depreciation		.020	125 03
Mining Capital		.092	288 21
Maintenance		.049	238 01
Taxes		.088	100 02
General Expense (Except Amalgams & Vms Idle)		.002	28 24
Accounts Not Billed When Mines			
FIXED CHARGES			
Post Product (Exc. Holidays)	150		
Number Days Idle	10 1/2		
No. Full Days Worked for Yr.	32 1/2		
Average Product Pr. Day for Yr.	28		
Normal Product for Year	4281		
Days to Hrs. Pr. Day	10 1/2		
TOTAL INCLUDING HOLIDAYS	108	.000	1.000
Delays	30	.189	.242
Wages	98	.811	.682
Materials	10	.034	.132
Oil & Gas	30	.183	.332
Electricity	28	.233	.320
Exp. on Steam Engines & Cars	30	.183	.082
Exp. on Hoisting Machinery			
Exp. on Compressor & Air Pipes			

RECORD OF DELAYS FROM VARIOUS CAUSES, YEAR ENDING NOV. 30TH, 1903
TILDEN MINE

IRON CITIES COMPANY

Delay	Cost	1903	1901
Hours	Tons	Percent of Time Lost	Percent of Time Lost

IRON CLIFFS COMPANY

RECORD OF FIRE INSURANCE ON MINE BUILDINGS YEAR

ENDING NOVEMBER 30TH, 1902.

	AMT. OF INSURANCE CARRIED	PREMIUM ACCRUING FOR 1902	FIRE LOSS PAID 1902
<u>CLIFFS SHAFT MINE</u>			
Mine Buildings	18500 00	457 19	1250 00
Dwellings	7800 00	60 53	
TOTAL	26300 00	517 12	1250 00
<u>SALISBURY MINE</u>			
Mine Buildings	6850 00	177 68	
Dwellings	17350 00	79 50	
TOTAL	24200 00	257 20	
<u>FOSTER MINE</u>			
Mine Buildings	1750 00	42 50	
Dwellings	2550 00	18 45	
TOTAL	4300 00	60 95	
TOTAL IRON CLIFFS CO.	54800 00	835 27	1250 00

DETAIL OF LOSS

<u>CLIFFS SHAFT</u>			
Dec. 1st. 1901 Dry house Estimated loss on bldg.		1713 18	
Amt. paid men on loss of Clothing		863 77	
TOTAL LOSS		2576 95	
<u>INSURANCE POLICIES PAID IN FULL</u>			
On Buildings	500 00		
On Men's Clothing	750 00	1250 00	
Estimated Net Loss		1326 95	

IRON CLIFFS COMPANY

RECORD OF FIRE INSURANCE ON MINE BUILDINGS YEAR

ENDING NOVEMBER 30TH, 1902.

	AMT. OF INSURANCE CARRIED		PREMIUM ACCRUING FOR 1902		FIRE LOSS PAID 1902
<u>CLIFFS SHAFT MINE</u>					
Mine Buildings	18500	00	457	19	1250 00
Dwellings	7800	00	60	53	
TOTAL	26300	00	517	12	1250 00
<u>SALISBURY MINE</u>					
Mine Buildings	6850	00	177	68	
Dwellings	17350	00	79	50	
TOTAL	24200	00	257	20	
<u>FOSTER MINE</u>					
Mine Buildings	1750	00	42	50	
Dwellings	2550	00	18	45	
TOTAL	4300	00	60	95	
TOTAL IRON CLIFFS CO.	54800	00	835	27	1250 00

DETAIL OF LOSS

<u>CLIFFS SHAFT</u>					
Dec. 1st. 1901 Dry house Estimated loss on bldg.			1713	18	
Amt. paid men on loss of Clothing			863	77	
TOTAL LOSS			2576	95	
<u>INSURANCE POLICIES PAID IN FULL</u>					
On Buildings	500	00			
On Men's Clothing	750	00	1250	00	
Estimated Net Loss			1326	95	

Iron Cliffs Co.

Record of Fire Insurance

Estimated Net Loss 1338 32
 On Men's clothing 1320 00
 On Buildings 200 00

INSURANCE POLICIES PAID IN FULL

TOTAL LOSS 3238 32
 OF CLOTHING 893 33
 Wm. David men on loss 1313 18
 Estimated loss on pigs.
 Dec. 1st. 1901 Dry house 1313 18
 CLIFFS SHAFT

DETAIL OF LOSS
 TOTAL FROM CLIFFS CO. 2480 00 932 33 1320 00
 TOTAL 4309 00 60 32

Dwellings 3220 00 13 42
 Mine Buildings 1320 00 43 20

FOSTER MINE

TOTAL 34300 00 323 30

Dwellings 13320 00 33 20

Mine Buildings 9820 00 133 38

SWITSHURY MINE

TOTAL 36300 00 213 13 1320 00

Dwellings 1800 00 60 23

Mine Buildings 13200 00 423 13 1320 00

CLIFFS SHAFT MINE

CARRIED FOR 1903
 INSURANCE ACCOUNTING PAID 1903
 AMT. OF PREMIUM PAID IN THE LOSS

ENDING NOVEMBER 30TH, 1903.

RECORD OF FIRE INSURANCE ON MINE BUILDINGS YEAR
 FROM CLIFFS COMPANY

THE CLEVELAND-CLIFFS IRON CO.

CLEVELAND IRON MINING CO.
IRON CLIFFS CO.

M. M. DUNCAN, AGENT.

ISHPEMING, MICH., Feby, 14th. 1903.

IN YOUR REPLY PLEASE REFER TO FILE

I. C. CO. TAXES.



Mr. R. C. Mann,

Auditor,

Cleveland, Ohio.

Dear Sir:-

Replying to your favor of 11th, in regard to difference in figures on tax statement and cost sheet for the Cliffs Shaft Mine. Amt. \$2.27, This is made up in the following manner:-

Amount as per tax statement	17735.35
" " " cost sheet	<u>17737.62</u>
Difference	2.27

as follows:-

Taxes for 1901 on Lot 5 Block 12, Ex I. Co. addition, paid in 1902, charged on cost sheet to Cliffs Shaft Mine for 1902, not entered on tax Statement	6.21
Adjusting error in collection fees of 4.38 instead of 44 cents on tax sheets of 1901 deducted from cost sheet of 1902, not entered on tax statement	<u>3.94</u>
	2.27

Yours truly,

A handwritten signature in cursive script, appearing to read "J. J. Magelack".

Local Auditor.

AJY-CWL

Feb. 11th, 1903.

Mr. A. J. Yungbluth, Local Auditor,
Ishpeming, Mich.

Dear Sir:-

Your Iron Cliffs Co. Comparative Tax Statement shows total taxes to Cliffs Shaft Mine \$17,735.35 for 1902, while Cost Statement, as sent down by you, shows \$17,737.62, and difference of \$2.27. Kindly explain.

Yours truly,

HCS-H

Auditor.

IRON CLIFFS COMPANY - DEPARTMENT OF MINES

COMPARATIVE STATEMENT OF TAXES FOR YEARS 1902 AND 1901

DESCRIPTION	1902		1901	
	VALUATION	TAXES	VALUATION	TAXES
CITY OF ISHPEMING				
Lots 4-5-&6 Block 3	3200.00	60.42	3200.00	56.01
Lot 14 Block 5	2100.00	39.65	2100.00	36.78
West part of Lot 1 of (NW 1/4 of NW 1/4) Sec.10-47-27 which lies North & West of the C&NWry Co's Right of Way, except that part of same which is included in the Excelsior Iron Co's addition to the City of Ishpeming, and except the rights of way of the DSS&ARY, the C&NWry and the LS&IRy across said land in an easterly and westerly direction about 30 acres.				
NE 1/4 of NE 1/4 Sec.9-47-27 except the Right of Way of the LS&IRy across said land, about 37 acres	510000.00	9628.33	544000.00	9517.81
SE 1/4 of NE 1/4 Sec.9-47-27 except the right of way of the C&NWry, the DSS&ARY and the LS&IRy across said land in a northeasterly & southwesterly direction about 35 acres.	3600.00	67.97	3600.00	62.92
SW 1/4 of NE 1/4 Sec.15-47-27 40 acres.	250.00	4.72	250.00	4.40
S.1/2 of NW 1/4 Sec 15-47-27 80 acres	125000.00	2359.89	87500.00	1529.43
Personal Cliff Shaft	408004.00	7709.74	329340.00	5762.10
Personal Salisbury	136496.00	2569.91	169660.00	2968.36
Excelsior Iron Co. 1st addition lots 4 & 5 Block 4	1900.00	35.88	1900.00	33.28
Excelsior Iron Co. " Lot 7 Block 4	600.00	11.33	600.00	10.51
Excelsior Iron Co. " Lot 5 Block 12	340	6.42		
Total City Taxes	1191490.00	22494.26	1142150.00	19981.60
Collection Fees 1%		224.94		199.82
Grand Total	1191490.00	22719.20	1142150.00	20181.42
Rate (Not including fees)		1.89		1.75
Increase over last year	49340.00	2537.78		
TILDEN TOWNSHIP				
SE 1/4 Sec.22-47-27 160 acres	800.00	19.00	800.00	17.68
SW 1/4 Sec.23-47-27 160 acres	8640.00	205.00	8640.00	190.72
NW 1/4 Sec.26-47-27 160 acres	640.00	15.20	480.00	10.60
NE 1/4 Sec.27-47-27 160 acres	640.00	15.20	480.00	10.60
SW 1/4 of SE 1/4 Sec.23-47-27 40 acres	320.00	7.60	320.00	7.07
Personal property	2000.00	47.45	4690.00	103.52
Total Township Taxes	13040.00	309.45	15410.00	340.19
Collection fees 1%		3.09		3.40
Grand Total	13040.00	312.54	15410.00	343.59
Rate (not including fees)		2.37		2.21
Total City & Township	1204530.00	23031.74	1157560.00	20525.01
Rate (not including fees)		1.89		1.75
Amount of taxes as per Statement, Charged as follows:				
Cliff Shaft	929744.00	17735.35	884740.00	15634.21
Salisbury	261746.00	4983.85	257410.00	4547.21
Poster	8840.00	211.89	10941.00	243.96
Tilden	4200.00	100.65	4469.00	99.63
Total	1204530.00	23031.74	1157560.00	20525.01
Increase over 1901	46970.00	2506.73		
Percent of " " "	.0406	.109		

Percent of " " " .103
 Increase over 1901 4830 00 3200 13
 Total 130420 00 33021 14 1121230 00 30232 01
 4800 00 100 82 4483 00 33 82
 111000 4800 00 100 82 4483 00 33 82
 32414 00 11123 32 884440 00 12934 31

GITTE SHAFT
 Amount of taxes as follows:
 Amount of taxes as per State-

Rate (Not including fees) 1.83
 Rate (Not including fees) 3.81
 Grand Total 13040 00 313 24 12410 00 343 20
 Collection Fees 12040 00 208 42 12410 00 240 12

PERSONAL PROPERTA
 40 acres 3000 00 41 42 4330 00 102 23
 2A 1/4 of SE 1/4 Sec. 33-41-31 330 00 1 80 330 00 1 01
 NE 1/4 Sec. 31-41-31 180 acres 840 00 12 30 430 00 10 60
 NW 1/4 Sec. 38-41-31 180 acres 840 00 12 30 430 00 10 60
 SW 1/4 Sec. 32-41-31 180 acres 840 00 802 00 840 00 190 13
 SE 1/4 Sec. 38-41-31 180 acres 800 00 12 00 800 00 11 68
LITDM TOWNSHIP

Increase over last year 83240 00 3231 13
 Rate (Not including fees) 1.83

GRAND TOTAL
 Collection Fees 113640 00 33120 30 1143120 00 30181 43
 Total City Taxes 113640 00 33120 30 1143120 00 30181 43

Total 2 Block 13
 Executor Iron Co. 600 00 11 32 600 00 10 21
 Total 1300 00 22 38 1300 00 33 38
Excelsior Iron Co.
 Total 1300 00 22 38 1300 00 33 38
Excelsior Iron Co. Tax addition
 Personal Property 130420 00 3333 31 133880 00 3383 36
 Personal Title Shaft 408004 00 1103 14 333240 00 2183 10
 80 acres 132000 00 3223 33 312500 00 1233 43

2 1/2 S of NW 1/4 Sec 12-41-31 320 00 4 13 320 00 4 40
 40 acres
 2 1/4 of NE 1/4 Sec 12-41-31 320 00 4 13 320 00 4 40
 32 acres

COMPENSATIVE STATEMENT OF TAXES FOR YEARS 1905 AND 1901
 210000 00 3633 33 214000000 2211 31
 210000 00 3633 33 214000000 2211 31

Iron Cliffs Co.
Compensative Statement of Taxes

North & West of the **CEMARA CO. 3**
 NW 1/4 Sec. 10-41-31 2100 00 3633 33 214000000 2211 31
 West half of 10 1/2 of (NW 1/4 of
 Total 2 Block 2 3
 2100 00 3633 33 214000000 2211 31
 City of Ishpeming 2100 00 3633 33 214000000 2211 31

DESCRIPTION	1905	1901
-------------	------	------

APPLICATION TAXES 23 82 3700 00 32 13
 APPLICATION TAXES 80.48 3300 00 28 07

COMPARATIVE STATEMENT OF TAXES FOR YEARS 1905 AND 1901
 IRON CLIFFS COMPANY - DEPARTMENT OF MINES

IRON CLIFFS COMPANY

Detail of Accounts Receivable, November 30th, 1902.

REPRESENTATIVE ACCOUNTS RECEIVABLE

Unearned Premiums, Boiler Insurance	183.33	
Unearned Premiums, Fire Insurance	516.70	
Total		700.03

ACCOUNTS RECEIVABLE

Paymasters Account	82.54	
Cleveland Cliffs Iron Co.	813.73	
Cleveland Iron Mining Co.	1311.13	
Pioneer Iron Co.	456.00	
R.W.Clason	31.78	
Superior Posten	100.00	
Ishpeming Floral Co.	37.50	
Standard Oil Co.	89.50	
John T.Burke	18.88	
Herman Ketto	8.00	
James Mathews	2.32	
Lake Superior & Ishpeming Ry.	390.42	
Revenue Tax	28.40	
Total		<u>3370.20</u>
Grand Total		4070.23

15

IRON CLIFFS COMPANY

Detail of Accounts Receivable, November 30th, 1902.

REPRESENTATIVE ACCOUNTS RECEIVABLE

Unearned Premiums, Boiler Insurance	183.33	
Unearned Premiums, Fire Insurance	516.70	
Total		700.03

ACCOUNTS RECEIVABLE

Paymasters Account	82.54	
Cleveland Cliffs Iron Co.	813.73	
Cleveland Iron Mining Co.	1311.13	
Pioneer Iron Co.	456.00	
R.W.Clason	31.78	
Superior Posten	100.00	
Ishpeming Floral Co.	37.50	
Standard Oil Co.	89.50	
John T.Burke	18.88	
Herman Ketto	8.00	
James Mathews	2.32	
Lake Superior & Ishpeming Ry.	390.42	
Revenue Tax	28.40	
Total		<u>3370.20</u>
Grand Total		4070.23

15

Iron Cliffs Co.

Accounts Receivable

Nov 30 1907
Dept M & M

4010.32
2210.30

Dr. 4010.32

Cr. 2210.30

Bellevue Tex	58.40
Teke Lubricol. & Lubricating Co.	280.43
Wm. W. W. W.	5.23
W. W. W.	8.00
John L. Burke	18.88
Standard Oil Co.	88.20
Lubricating Oil Co.	24.20
Lubricol. Co.	100.00
B. M. Gibson	21.18
W. W. W.	420.00
Standard Oil Co.	1211.13
Standard Oil Co.	812.13
W. W. W.	83.24

ACCOUNTS RECEIVABLE

W. W. W.	210.40
W. W. W.	182.23

ACCOUNTS RECEIVABLE

Dept of Accounts Receivable, November 30, 1907.

IRON CLIFFS COMPANY

IRON CLIFFS COMPANY

Detail Of Accounts Payable, November 30th, 1902.

REPRESENTATIVE ACCOUNTS PAYABLE

Vou.No.	Cliffs Shaft Benefit	2255.23	
	Cliffs Shaft Suspense	2255.23	
	Salisbury Benefit	3598.17	
	Salisbury Suspense	2040.75	
	Foster Benefit	438.95	
	Foster Suspense	219.61	
	Cliff Shaft Brass Checks	357.25	
	Salisbury Brass Checks	231.25	
	Foster Brass Checks	5.25	
	Fire Loss (Salisbury)	670.76	
	Total	12072.45	12072.45

ACCOUNTS PAYABLE

	Accured Taxes Unpaid	23031.74	
	Pay Rolls	26866.32	
	Bills Audited	1945.94	
4597	Mrs.H.Mackenzie	17.62	
4598	Negaunee Land Department	24.00	
4600	Chicago & Northwestern Ry	44.27	
4601	James B.Clow & Sons	.90	
4602	Lake Superior & Ishpg.Ry.	10.00	
4603	Swanson,Wainberg & Co.	2.65	
4604	James Andrews	1.00	
4605	J.Sellwood & Co.	.20	
4606	Jones & Laughlin Steel Co.	15.97	
4607	The Garlock Packing Co.	11.54	
4608	T.H.Dawson	1.60	
4609	Fred J.Eggan	.60	
4611	James B. Clow & Sons	35.80	
4612	Mrs. A.Williams	1.00	
4623	Fred P Tillson	.50	
4625	Negaunee & Ishpg.St.Ry.& EL.Co	46.85	
4624	Marquette County Telep.Co.	1.75	
4626	Trembath Bros.	.39	
4627	Consolidated Fuel & Lbr.Co.	38.96	
4628	Lake Shore Engine Works	37.11	
4629	I.E.Swift & Co.	19.37	
4630	Rand Drill Co.	11.20	
4631	Wm.T. Cole	25.00	
4632	Ishpeming Steam Laundry	.63	
4633	Jabez Stephens	33.00	
4634	August Yarkie	44.00	
4635	Frech & Vandeventer	572.00	
4636	A.B.Miner, Cashier	26.00	
4637	Cleveland Iron Mining Co.	91.50	
4638	Cleveland Cliffs Iron Co.		
	Land Department	6.00	
4639	Cleveland Iron Mining Co.	824.53	
	Ishpeming Water Works	55.25	
	Estate of James Collins	500.00	
	Total		52399.25
	Grand Total		64471.70

5-10-99
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910

GLASS 10681
25328 52

4030	Payroll of James Collins	200.00
4031	Payroll of West Works	22.52
4032	Claremont Iron Mining Co.	854.22
4033	Iron Debitment	6.00
4034	Claremont Cliffs Iron Co.	81.20
4035	Claremont Iron Mining Co.	52.00
4036	V. B. White, Carpenter	243.00
4037	John F. Amodeo	44.00
4038	Arthur White	22.00
4039	Payroll of James Collins	2.23
4040	Mr. L. Cole	52.00
4041	Bank Bill	11.80
4042	J. E. Smith & Co.	18.27
4043	Lake Shole Engine Works	21.11
4044	Consolidated Steel & Iron Co.	28.22
4045	Lawrence Blue	.22
4046	McCormick Coal & Ice Co.	1.12
4047	McCormick Coal & Ice Co.	1.22
4048	McCormick Coal & Ice Co.	1.00
4049	McCormick Coal & Ice Co.	32.80
4050	McCormick Coal & Ice Co.	.80
4051	J. H. Deacon	1.80
4052	The Clackson Lumber Co.	11.24
4053	Tones & Lumber	12.84
4054	J. G. Lumber	.80
4055	James McGuire	1.00
4056	James McGuire & Co.	3.22
4057	John McGuire & Co.	10.00
4058	James B. Stone & Sons	.30
4059	James B. Stone & Sons	44.34
4060	Crucible & Manufacturing Co.	54.00
4061	McCormick Coal & Ice Co.	11.25
4062	McCormick Coal & Ice Co.	
4063	McCormick Coal & Ice Co.	
4064	McCormick Coal & Ice Co.	
4065	McCormick Coal & Ice Co.	
4066	McCormick Coal & Ice Co.	
4067	McCormick Coal & Ice Co.	
4068	McCormick Coal & Ice Co.	
4069	McCormick Coal & Ice Co.	
4070	McCormick Coal & Ice Co.	
4071	McCormick Coal & Ice Co.	
4072	McCormick Coal & Ice Co.	
4073	McCormick Coal & Ice Co.	
4074	McCormick Coal & Ice Co.	
4075	McCormick Coal & Ice Co.	
4076	McCormick Coal & Ice Co.	
4077	McCormick Coal & Ice Co.	
4078	McCormick Coal & Ice Co.	
4079	McCormick Coal & Ice Co.	
4080	McCormick Coal & Ice Co.	

1042.84
52200.28
52021.14

Iron Cliffs Co.

Accounts Payable

Nov 30, 1907

Dept. M & M

VCCOMALS BVAATE

10681	Payroll of James Collins	200.00
10682	Payroll of West Works	22.52
10683	Claremont Iron Mining Co.	854.22
10684	Iron Debitment	6.00
10685	Claremont Cliffs Iron Co.	81.20
10686	Claremont Iron Mining Co.	52.00
10687	V. B. White, Carpenter	243.00
10688	John F. Amodeo	44.00
10689	Arthur White	22.00
10690	Payroll of James Collins	2.23
10691	Mr. L. Cole	52.00
10692	Bank Bill	11.80
10693	J. E. Smith & Co.	18.27
10694	Lake Shole Engine Works	21.11
10695	Consolidated Steel & Iron Co.	28.22
10696	Lawrence Blue	.22
10697	McCormick Coal & Ice Co.	1.12
10698	McCormick Coal & Ice Co.	1.22
10699	McCormick Coal & Ice Co.	1.00
10700	McCormick Coal & Ice Co.	32.80
10701	McCormick Coal & Ice Co.	.80
10702	J. H. Deacon	1.80
10703	The Clackson Lumber Co.	11.24
10704	Tones & Lumber	12.84
10705	J. G. Lumber	.80
10706	James McGuire	1.00
10707	James McGuire & Co.	3.22
10708	John McGuire & Co.	10.00
10709	James B. Stone & Sons	.30
10710	James B. Stone & Sons	44.34
10711	Crucible & Manufacturing Co.	54.00
10712	McCormick Coal & Ice Co.	11.25
10713	McCormick Coal & Ice Co.	
10714	McCormick Coal & Ice Co.	
10715	McCormick Coal & Ice Co.	
10716	McCormick Coal & Ice Co.	
10717	McCormick Coal & Ice Co.	
10718	McCormick Coal & Ice Co.	
10719	McCormick Coal & Ice Co.	
10720	McCormick Coal & Ice Co.	
10721	McCormick Coal & Ice Co.	
10722	McCormick Coal & Ice Co.	
10723	McCormick Coal & Ice Co.	
10724	McCormick Coal & Ice Co.	
10725	McCormick Coal & Ice Co.	
10726	McCormick Coal & Ice Co.	
10727	McCormick Coal & Ice Co.	
10728	McCormick Coal & Ice Co.	
10729	McCormick Coal & Ice Co.	
10730	McCormick Coal & Ice Co.	

400.10

BEECHERVILLE VCCOMALS BVAATE

Dept of Accounts Payable, November 30th, 1907

IRON CLIFFS COMPANY

IRON CLIFFS COMPANY

COMPARATIVE STATEMENT OF GENERAL EXPENSE ACCOUNTS FOR FIVE
YEARS ENDING NOVEMBER 30TH, 1902

GENERAL & MINE OFFICE	1902		1901		1900		1899		1898	
Superintendent)			4285	59	4655	53	4609	53	3936	03
Clerks)	9710	36	5510	89	5997	06	5419	56	5027	67
Master Mechanic	1925	52	1953	74	1905	93	1293	74	654	75
Watchman	459	80	458	10	456	45	472	15	154	41
Choreman	168	85	168	01	171	60	157	92	117	79
Stationery & Printing	386	72	384	61	378	76	325	20	350	40
Telephone & Telegraph	358	34	402	86	318	02	364	40	307	60
Traveling	97	24	229	86	39	69	243	86	166	29
Fuel & Light	293	52	372	50	407	11	254	32	197	58
Water & Ice	6	12	46	23	72	81	46	25	49	72
Livery & Stable Exp.	697	89	632	25	554	34	503	21	494	96
Postage & Box Rent	97	79	114	42	139	60	81	80	84	57
Papers & Periodicals	9	00	13	67	13	15	14	00	12	25
Freight & Express	19	73	17	37	19	15	20	71	15	67
Donations	748	75	480	78	892	36	97	03	576	67
Petty Office Expense	61	67	71	78	73	76	87	45	48	19
Exchange	322	00	316	00	307	00	261	00	222	00
Revenue Tax			5	25	204	37	152	99	141	52
Rent							185	00	330	00
Furniture & Fixtures ✓	169	80	51	98	93	50	141	59	118	90
Legal	7	50	322	96	332	17	437	97	300	00
Advertising	10	00			15	00	15	00	27	50
Miscellaneous	92	38	100	18	161	55	23	80		
Janitor	107	83	104	90	96	54				
Consulting Geologist	853	71								
TOTAL	16604	57	6043	93	17305	45	15208	48	13324	47
GENERAL EXPENSE ACCTS										
Fire Insurance	748	89	709	05	657	44	587	11	550	89
Boiler Insurance	86	98	83	97	83	97	68	42	64	52
Taxes	23034	01	20528	95	13212	95	13298	90	13485	78
Engineering	1875	41	1841	00	2110	95	1387	04	2104	60
Analysis	2680	08	2164	71	2100	12	2004	72	3557	90
Relief Fund	2210	10	2142	60	2174	10	2102	10	2022	60
TOTAL	30635	47	27470	28	20339	53	19448	29	21786	29
GRAND TOTAL	47240	04	43514	21	37644	98	34656	77	35110	76

GRAND TOTAL	44340 04	43274 31	34314 38	34028 44	22710 40
TOTAL	20032 44	34440 38	30333 22	13443 38	31482 38
Retel Fund	3310 10	3143 60	3144 10	3103 10	3033 60
Analysts	3680 03	3184 41	3100 13	3004 43	2224 30
Engineering	1342 41	1341 00	3110 32	1334 04	3104 30
Taxes	32034 01	30233 32	13313 32	13333 30	12482 43
Boiler Insurance	32 38	32 34	32 34	32 43	34 23
Auto Insurance	443 33	403 02	324 44	334 11	220 33
GENERAL EXPENSE ACCTS					

TOTAL	12804 24	6042 32	14302 42	12303 43	13334 44
CONTINUING GEOLGICAL	322 41				
RENT	104 33	104 30	32 24		
MISCELLANEOUS	33 23	100 13	131 22	32 30	
ADVERTISING	10 00		12 00	12 00	34 20
POST	4 20	233 06	223 14	424 34	300 00
FURNITURE & FIXTURES	133 30	21 33	32 20	141 23	113 30
RENT				132 00	230 00
REVENUE TAX		2 32	304 34	123 33	141 23
EXPENSE	233 00	219 00	204 00	331 00	333 00
RENT OFFICE EXPENSE	31 34	41 43	42 40	34 42	43 19
DESCRIPTIONS	443 42	430 43	333 26	34 02	243 34
RENT & EXPRESS	13 43	14 34	13 12	30 41	12 34
PAPER & PERIODICALS	3 00	12 34	12 12	14 00	13 32
POSTAGE & BOX RENT	34 43	114 43	123 30	31 30	34 24
TRAVEL & STABLE EXP.	334 33	323 32	224 24	202 31	434 02
RENT	3 13	43 22	43 31	43 32	43 43
RENT	332 23	243 20	404 11	324 23	134 23
TRAVEL	34 34	333 33	23 33	342 33	133 33
PHONE & TELEGRAPH	222 24	403 32	213 02	234 40	204 30
STATIONERY & PRINTING	332 43	334 31	243 43	332 30	320 40
CHORUS	133 32	133 01	144 30	124 33	114 43
WATCHMAN	423 30	423 10	423 42	443 12	124 41
MASHER MECHANIC	1322 23	1322 44	1302 32	1332 44	324 42
CLERK	3410 23	2210 33	2334 03	2413 23	2034 34
SUPERINTENDENT		4332 23	4322 22	4303 22	2322 02
GENERAL & MINE OFFICE	1303	1301	1300	1333	1303

Iron Cliffs Co.
Statement of General Expense for five years

YEARS ENDING NOVEMBER 30TH, 1903
 COMPARATIVE STATEMENT OF GENERAL EXPENSE ACCOUNTS FOR FIVE

IRON CLIFFS COMPANY

IRON CLIFFS COMPANY

REPORT OF OPERATING STEAM SHOVEL NO.3, SEASON 1902

	1902		1901	
Number of days Shovel worked	110		94	
Average no.of hours worked per day	5	38	4	36
Total number tons loaded	142826		104905	
Number of Men working with Shovel	11		10	
Average tons per day loading	1298		1116	
Average tons per man per day	118		111	6
Average wages per day for Runners	2	50	2	50
" " " " " Laborers	1	73	1	75
Labor Cost per Ton Operating		021		020
Supply " " " "		003		003
<u>TOTAL</u>		024		023

	1902	1901	1902		1901			
	Tons	Tons	Amount	Cost	Amount	Cost		
Lake	71107	17948	2036	44	.028	601	02	.033
Hard Ore								
Cliffs Shaft	34725	42106	723	40	.020	1015	83	.024
Salisbury	15045	37867	401	38	.026	979	47	.026
Volunteer	11518		435	28	.037			
Michigamme	10431	6984	290	90	.028	152	55	.022
Foster								
<u>TOTAL</u>	142826	104905	3887	40	.027	2748	87	.026
<u>OPERATING SHOVEL</u>								
Labor			2932	99	.021	2146	94	.020
Supplies			486	22	.003	303	19	.003
<u>TOTAL</u>			3419	21	.024	2450	13	.023
<u>REPAIRS TO SHOVEL</u>								
Labor & Supplies			468	19	.003	298	74	.003
<u>TOTAL Operating & Repair Cost</u>			3887	40	.027	2748	87	.026

TOTAL Operating & Repair Cost

Labor & Supplies

288A	40	.08A	247B	21	.08B
42C	12	.002	888	4A	.00

REPAIRS TO SHOVEL

TOTAL

247B	21	.08A	247C	12	.08B
------	----	------	------	----	------

Supplies

48B	22	.002	302	12	.002
-----	----	------	-----	----	------

Labor

282C	22	.081	217C	24	.080
------	----	------	------	----	------

OPERATING SHOVEL

TOTAL

14882C	10420E	288A	40	.08A	247B	21	.08B
--------	--------	------	----	------	------	----	------

Lumber

Wages

10421	288A	230	20	.088	122	22	.082
-------	------	-----	----	------	-----	----	------

Volunteer

1127B	422	28	.02A
-------	-----	----	------

Slips

1204E	2382A	401	28	.08E	247	4A	.08E
-------	-------	-----	----	------	-----	----	------

Cliffs Shift

2442D	4210E	122	40	.080	1072	22	.08A
-------	-------	-----	----	------	------	----	------

Hand Ore

Tons

1110A	12248	2022	44	.088	201	28	.082
-------	-------	------	----	------	-----	----	------

Tons	Tons	Amount	Cost	Amount	Cost
------	------	--------	------	--------	------

1202	1201	1202	1202	1201	1201
------	------	------	------	------	------

TOTAL

024	022
-----	-----

Cost per Ton Operating

021	020
-----	-----

Laborers

1 12	1 12
------	------

Wages per day for Runners

2 20	2 20
------	------

Wages per man per day

112	111 8
-----	-------

Wages per day Loading

1222	1112
------	------

Number of Men Working with Shovel

11	10
----	----

Total number tons loaded

14822C	10420E
--------	--------

Average no. of hours worked per day

2 28	4 22
------	------

Number of days Shovel worked

110	24
-----	----

1202	1201
------	------

Iron Cliffs Co.

Report of Operating Steam Shovel¹²

REPORT OF OPERATING STEAM SHOVEL NO. 3, SEASON 1202

IRON CLIFFS COMPANY

TOTAL Operating & Repair Cost 2882 40 .082 2478 21 .082
 Repair & Supplies 428 13 .002 328 14 .002

REPAIRS TO SHOVEL

TOTAL 2478 21 .084 2470 12 .082
 Supplies 488 82 .002 302 19 .002
 Labor 2832 99 .081 2168 34 .080

OPERATING SHOVEL

TOTAL	143832	104302	2882 40 .082	2478 21 .082
Laborer				
Wrightsville	10421	9264	290 90 .088	122 22 .082
Volunteer	11218		422 88 .021	
Switzerland	12042	21921	401 28 .082	213 41 .082
Cliffs Shaft	2432	43106	122 40 .080	1012 32 .084
Heavy Ore				
Take	11101	12342	3022 44 .088	201 02 .082
	Tons	Tons	Amount	Cost
	1303	1301	1303	1301

Iron Cliffs Co.

Report of Operating Steam Shovel No. 3

TOTAL	034	032
Cost per Ton Operating	002	002
" " "	031	030
" " " Laborers	1 12	1 12
Average wages per day for Runners	3 20	3 20
Average tons per day per day	118	111 8
Average tons per day loading	1338	1119
Number of Men Working with Shovel	11	10
Total number tons loaded	143832	104302
Average no. of hours worked per day	2 38	4 32
Number of days Shovel worked	110	34
	1303	1301

REPORT OF OPERATING STEAM SHOVEL NO. 3, SEASON 1902

IRON CLIFFS COMPANY

Mr. A. J. Yungbluth #2

paid during the year. Kindly let us have this as early as possible
so that we may have the figures ready in case of need.

See 1902 Tax
Statements in
CMB's account
Box

Iron Cliffs Co.

Figures not correct per Reference letter 8/21/03

Comparative Tax Statement

Townships	Acres		Valuations		Amount of Tax		Distribution			
	1901	1902	1901	1902	1901	1902				
Baldwin	459	417	25.10	19.10	85.66	63.68				
Maple Ridge	2656.09	2415.49	93.40	86.50	309.40	300.70				
Ford River	600	480	48.80	47.80	148.15	153.45				
Wells	80	40	2.85	1.75	5.46	3.88				
Spalding	1391.80	1313.76	77.90	73.90	253.14	224.69				
Sauce	5360.04	5376.37	220.80	218.80	1103.55	1181.62				
Marquette	2467.15	2427.03	124.80	124.40	256.79	246.79				
Forsythe	879.20	879.18	9.00	9.00	16.99	18.58				
Richmond	6865.60	6745.60	269.30	264.90	682.91	735.50				
Megaunee	4750.60	4390.60	122.40	113.20	278.14	236.16				
Fielden	7738.18	7300.46	272.80	284.60	608.85	682.68				
Schpenning	2340.57	2057.87	144.90	127.40	457.76	357.04				
Ely	1600	1600	22.50	22.60	75.44	63.17				
L'Ance	1120	1120	35.00	35.00	103.22	87.99				
Marquette City	800	800	160.75	160.75	280.59	301.95				
Megaunee "			807.38	363.05	1722.90	1871.93				
Schpenning "			228.00	227.00	402.91	438.67				
Total	27108.17	27263.31	2665.18	2178.75	6791.86	6990.98				

Feb. 11th, 1903.

Mr. Samuel Redfern, Land Agent,
Negaunee, Mich.

Dear Sir:-

On your Annual Report on page #29, you give Comparative Tax Statement showing 1901 and 1902 taxes as per enclosed statement, and on your General Balance Sheets, as sent down from month to month we have taken into our accounts for these years as follows:

LAND DEPARTMENT (PROPER)

	<u>1901</u>	<u>1902</u>
Green House,	\$4,831.76 ✕	\$10,272.09
Bellevue Farm.	19.63 ✕	68.59
	<u>61.11 ✕</u>	<u>260.12 ✓</u>
	\$4,912.50 ✓	\$10,600.81 ✓

You will notice there is a large variation in the amounts, as given above and as per the statement enclosed, and we have appended to the enclosed statement additional columns, in which we would ask that you kindly make out a distribution of the taxes as charged, if possible.

We understand that you have this year taken into account the 1901 and 1902 taxes on account of a change in plan in taking up the taxes during the year for which they are charged. However, the total of the two years should, we think, tally out. We should in some way be able to check your Comparative Tax Statement with the taxes as actually

THERE IS NO SECTION OF THE COUNTRY WHERE INTELLIGENT WORK IS SURE OF BETTER SUCCESS THAN
THE UPPER PENINSULA OF MICHIGAN.

The Cleveland-Cliffs Iron Co.

MUNISING RAILWAY, MARQUETTE & SOUTHEASTERN RAILWAY, LAKE SUPERIOR & ISHPEMING RAILWAY.

LAND DEPARTMENT.

FACTS ABOUT MUNISING AND VICINITY:

MUNISING, FINEST HARBOR ON THE LAKES.
FREE MANUFACTURING SITES AT MUNISING.
HARDWOOD TIMBER FOR SALE.
FARM LAND FOR SALE ON EASY TERMS.
THE SOIL WONDERFULLY PRODUCTIVE.
AN UNSURPASSED HOME MARKET.
CITY LOTS FOR SALE.

SAMUEL REDFERN,
LAND AGENT.

INCLUDING LANDS OF

THE CLEVELAND-CLIFFS IRON CO.
CLEVELAND IRON MINING CO.
IRON CLIFFS CO.
PIONEER IRON CO.
EXCELSIOR IRON CO.
AMERICAN IRON MINING CO.
MICHIGAMME CO.
MUNISING CO.
MUNISING R'Y CO.

~~MUNISING, MICH.~~ March 24th, 1903

Mr. R. C. Mann, Auditor,
Cleveland, Ohio,

Dear Sir:-

We have your letter regarding comparative tax statement of annual report, will say the figures as given were not correct, that is, the Iron Cliffs Company included the Pioneer and Arctic Iron Companies, and for 1902 only 1902 taxes were taken into account, instead of taking 1901 also, as per change in plan.

Enclosed you have statement of distribution of the Iron Cliffs Company's taxes. You show \$10.12 more than I do for taxes of 1901, the rest being correct. On your statement, which I have enclosed, you will find distribution of Cleveland Iron Mine Co. taxes; for 1902 you show \$162.34, while I have \$1628.34, which I believe is correct.

Yours truly,

Samuel Redfern
Land Agent,

H.S.N.

Encl.

IRON CLIFFS COMPANY.

DISTRIBUTION OF TAXES 1901 and 1902.

Townships	Lands		Timbered Lands		Delinquent Taxes		Rented Houses		Vacant Lots		Greenhouse		Bellevue Farm		C.C.I.Co. Furnace Dept.		Total Taxes		Total Taxes Taken into Acct.	
	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902	1901	1902
Baldwin	33 53	75 00	45 00	74 34													78 53	149 34	78 53	149 34
Maple Ridge	159 58	610 10	53 20	19 89													212 78	629 99	212 78	629 99
Ford River	26 99	113 75	54 00	25 45											32 37		113 36	139 20	80 99	139 20
Wells	3 66	9 34															3 66	9 34	3 66	9 34
Spaulding	59 82	141 11	119 65	262 63											20 36		199 83	403 74	179 47	403 74
Sands	106 48	851 80	673 61	1400 20													780 09	2252 00	780 09	2252 00
Marquette	57 34	148 04	229 35	355 54													286 69	503 58	286 69	503 58
Forsythe	17 81	35 57															17 81	35 57	17 81	35 57
Richmond	498 14	899 55	139 96	499 35									61 11	19 51			699 21	1418 41	699 21	1418 41
Negaunee	208 19	425 12															208 19	425 12	208 19	425 12
Tilden	489 84	1203 60	54 84		22 69	90 61											567 37	1294 21	544 68	1203 60
Ishpeming	490 38	567 79			28 99	226 85											519 37	794 64	490 38	567 79
Ely	88 62	142 51															88 62	142 51	88 62	142 51
L'Anse		75 14	88 23	116 07													88 23	191 21	88 23	191 21
Marquette City	37 35	308 08	336 11	274 46													373 46	582 54	373 46	582 54
Negaunee Ci ty	412 36	694 21					181 68	451 46	90 84	18 10	19 63	68 59		240 62			704 51	1472 98	704 51	1472 98
Ishpeming City	65 08	471 02		2 87	57 18	867 69											122 26	841 58	65 08	473 89
	2755 17	6771 73	1793 95	3030 80	108 86	685 15	181 68	451 46	90 84	18 10	19 63	68 59	61 11	260 13	52 73		5063 97	11285 96	4902 38	10600 81

Subtotal C.C.I.Co. for 1901 = 5473
 Delinquent Taxes = 108 86
 161.59 685.15

Iron Cliffs Co.

Tax Statements Land Department

Nov 30 - 1907

20

PROPERTY OF	588 14	641 42	1482 82	2020 80	108 88
REVENUE OF	92 08	411 03		3 81	21 18
PROPERTY OF	473 29	224 37			
REVENUE OF	21 22	208 08	239 77	314 49	
TOTAL		12 14	88 33	176 01	
PROPERTY OF	88 03	143 27			

PROPERTY OF	450 28	291 18			38 28
REVENUE OF	488 84	1302 00	24 84		33 00
PROPERTY OF	308 18	452 73			
REVENUE OF	408 14	888 22	138 88	488 22	
TOTAL	11 87	32 21			
PROPERTY OF	21 34	148 04	333 22	222 24	
REVENUE OF	108 48	827 80	612 87	1400 30	
TOTAL	28 83	141 17	178 82	383 83	
PROPERTY OF	3 00	8 24			
REVENUE OF	32 00	173 12	24 00	32 42	
TOTAL	128 28	610 70	22 30	18 88	
PROPERTY OF	32 22	12 00	42 00	14 24	

PROPERTY OF	1801	1803	1801	1803	1801
REVENUE OF					
TOTAL					

DISTRIBUTION OF TAXES 1801



Memorandum reconciling taxes, as per approximate
analysis of Profit & Loss of all companies, for
year \$110,723.54

with

Tax Statement, 1902 120,932.29

Difference, \$ 10,208.75

PIONEER FURNACE DEPT.: Tax Stmt. \$10,726.79

As charged out, per books:

Cost Sheet, Pig Iron \$4,461.00

" " Alcohol, 2,232.55

Gladstone City Lots 349.11

7,042.66

\$ 3,684.13

Difference probably taken up on
charcoal and other Cost Sheets,
and represented by stocks of
wood and supplies on hand.

OPERATING MAAS MINE:

Not charged out,

6,524.62

\$10,208.75

Iron Cliffs Co.

Reconciliation Tax Statement

\$10,808.01

\$10,808.01

\$110,011

\$1,338,313

IRON CLIFFS COMPANY

STATE OF OHIO

and

ALL COMPANIES

no of reket vladodort covetertitit
 .ateatit taot taitto hie lreotatit
 .atit no vilititit hie boot

THE IRON CLIFFS COMPANY
 and
 ALL COMPANIES

\$1,338,313

00.134.28
 33.333.3
 11.028

REFERENCE

IRON CLIFFS COMPANY

00.134.28
 33.333.3
 11.028

00.134.28
 33.333.3
 11.028

\$1,338,313

no of reket vladodort covetertitit
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 .atit no vilititit hie boot

THE IRON CLIFFS COMPANY
 and
 ALL COMPANIES

\$1,338,313

Statement ^{of} for Salisbury Ore for year ending Nov. 30, 1902.

	<u>Jan</u>	<u>Jan</u>
In stock at Mine Dec. 1st. 1901	21904	
Produced during year	89074	

Total Salisbury Ore 110978

Other Ore transferrd to Salisbury.

Aug. 19	Kaliyuga	Lake	115
24	Colonial	"	539
25	Paisley	"	465
26	Pioneer	"	538
27	Pontiac	"	574
28	Andaste	"	696
30	Osborne	"	921
Sept. 2.	Choctau	"	399
2	Cadillac	"	552
8	Marquette	"	198
8	Andaste	"	96
9	Pioneer	"	177
12	Kaliyuga	"	519
12	Cadillac	"	244
13	Choctau	"	1777
20	J. W. Moore	"	1910
20	Maythem	"	1333
25	Choctau	"	772
26	H. H. Brown	"	2507
Oct. 1	Grampion	"	1210
3	Pioneer	"	1023
5	Cadillac	"	1581
5	Frontenac	"	2231
6	A. P. Wright	"	2032
7	Kaliyuga	"	1747
10	Falcon	"	708
11	Pontiac	"	2446
16	Andaste	"	2121

26 Forward

29421 - 110978

Other Ores transferred to Salisbury. (Continued).

		<i>Carried forward</i>	<u>Tons</u>	<u>Tons</u>
		Total Salisbury Ore	29421	110978
Oct. 20	Choctau	Lake	2017	
21	Kaliyuga	"	1620	
22	Pontiac	"	2219	
23	Spokane	"	2254	
24	Andaste	"	1622	
29	Frontenac	"	2134	
30	Chattanooga	"	2770	
31	Grampion	"	1231	
31	Paisley	"	1177	
Nov. 4	Andaste	"	2183	
Nov.		Forward	48848	110978
6	Nicaragua	Lake	1643	
7	A. Cobb	"	778	
8	B. W. Parker	"	1293	
9	Pontiac	"	1912	
10	Frontenac	"	1917	
15	Pioneer	"	715	
16	Centurion	"	774	
18	H. H. Brown	"	399	
19	Choctau	"	1007	
27	Frontenac	"	1681	
29	Cadillac	"	715	
		Total Lake as Salisbury		61482
		Buffalo Ore Shipped as Salisbury		86709
		Cameo Ore		38930
		Bedford Ore		64078
		Total Carried forward		362177

Statement Salisbury Ore (Continued).

Amount brought forward

Four

Four

362177

Shipped:

Pioneer Furnace	11900
Carp Furnace	10447
Northwestern Iron Co	15588
Antrim Iron Co	18816
Spring Lake Iron Co	15019
Pen Iron Mfg. Co. Ltd	11535
Toledo	24553
Sandusky	6314
Cleveland	19909
Ashtabula	30028
Buffalo	<u>187288</u>

Total Shipped as Salisbury

351397

Salisbury shipped as Bedford

884

(See Bedford Statement)

In stock at Mine Nov. 30, 1902.

9896

Total

362177

Statement of Foster Ore for year ending Nov. 30, 1902.

	<i>Tons</i>	<i>Tons</i>
In stock Mine Dec. 1st 1901.	1200	
Over run on Stock pile	810	
	<hr/>	
Total Foster		<u>2010</u>
<hr/>		
Shipped:		
Pioneer Furnace		<u>2010</u>

Statement of Tilden Silica for year ending Nov. 30, 1902.

	<i>Tons</i>	<i>Tons</i>
Produced during year	4621	
Shipped from old stock pile	129	
	<hr/>	
Total Tilden Silica		<u>4750</u>
<hr/>		
Shipped:		
Pioneer Furnace	102	
Antrim Iron Co.	304	
Cleveland	3072	
Deseronto Iron Co. & Co.	1272	
	<hr/>	
		<u>4750</u>

Statement of Michigan Ore for year ending Nov. 30, 1902.

	<i>Tons</i>	<i>Tons</i>
In stock at Mine Dec. 1st. 1902.		11078
In dock at Escanaba Dec. 1st 1901.		252
		<hr/>
Total		<u>11330</u>
<hr/>		
Shipped:		
Buffalo	10684	
In stock Mine Nov. 30, 1901		
	<hr/>	
Total		<u>11330</u>

Statement for Cliffs Shaft Ore for year ending Nov. 30th 1902.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1st, 1901	124445	
Produced during year	279002	
Total Cliffs Shaft		403447

Other Ores transferred to Cliffs Shaft

Aug. 4,	Louisiana,	Coarse Scotch	1023
8	Naples	"	1282
13	Pioneer	"	1138
16	Spokane	"	1477
26	Choctaw	"	1256
28	Nicaragua	"	36
29	Vega	"	1452
Sept 6	Angeline	"	316
7	Frontenac	"	1593
13	Pontiac	"	1822
20	Chattanooga	"	1648
29	Kaillyuga	"	1178
Oct. 1	Centurion	"	174
2	Massachusetts	"	415
2	P. P. Pratt	"	1326
10	Eddy	"	607
11	Tacoma	"	1138
17	Cadillac	"	1096
22	Hiawatha	"	962
30	Venezuela	"	860
30	Pioneer	"	737
Nov. 8	Spokane	"	2069
12	Massachusetts	"	477
16	Centurion	"	273
17	P. P. Pratt	"	1319
20	Pontiac	"	240

Total Coarse ^{Scotch} Cliffs Shaft.

25914 429.061

Statement of Cliffs Shaft Ore - (Continued)

		Amount Brought Ford.	Tons <u>85118</u>	Tons <u>85118</u> 429367
Aug. 17,	Jupiter	Scotch	251	
25	Angeline	"	386	
26	Spokane	"	363	
28	Frontenac	"	658	
Sept. 5	P. P. Pratt	"	284	
6	Angeline	"	785	
7	Spokane	"	572	
9	Chautau	"	179	
10	Falcon	"	227	
15	Spokane	"	1012	
17	Angeline	"	406	
22	Centurion	"	989	
		<u>85118</u>	<u>85118</u>	

Scotch as transferred to other shafts. 793

Sept. 26	Angeline.	Scotch as crushed Cliffs Shaft	793	
29	India	" " " "	145	
Oct. 1	S. J. Macy	"	72	
1	Centurion	"	921	
2	Ahtens	"	210	
5	Olympia	"	483	
7	Angeline	"	552	
14	Spokane	"	1284	
18	H. H. Brown	"	1433	
23	Centurion	"	841	
23	Falcon	"	147	
29	Choctaw	"	714	
Nov. 4	Centurion	"	1681	
9	Kaliyuga	"	691	
16	Centurion	"	857	
17	Angeline	"	429	
		Total Scotch	<u>17365</u> ✓	17365
		Beresford as crushed Cliffs Shaft	<u>22109</u> ✓	<u>468835</u>

Cliffs Shaft transferred to other ores

July 24	<u>Falcon Shipped</u>	Castleford		34 ✓
		Coarse Cliffs Shaft		
		Inland Steel Co.	996-	
		Toledo	1640 x	
		Cleveland	8730 x	
		Ashtabula	21033 x	
		Erie	33769 x	
		Buffalo	7589 x 1/2 ✓	
		Granite City Steel Works	1004	
		De Camp Bras. & Yule Granite		
		City	214	
		Do E. St. Louis	817	
		Total Coarse Cliffs Shaft		75792

Crushed Cliffs Shaft

Crushed in Pioneer Furnace	4 573	
Northwestern Iron Co.	10032	} 33959
Antrim Iron Co	4155	
Elk Rapids Iron Co	8644	
Spring Lake Iron Co	7525	
Manistique Iron Co	1025	
Toledo	28077	} 85624
Sandusky	974	
Cleveland	56583	
Forward	<u>121,593</u>	<u>75,826</u>

Crushed Cliffs Shaft. (Continued)

	<u>Tons</u>	<u>Tons</u>
	121,393	75,826
Ashtabula	72,963	
Erie	16,505	
Buffalo	155,955	245,423
Deseronto Iron Co.	46,987	
De Camp Bros. & Yule	61	4,599

Total Crushed Cliffs Shaft 371,775

In stock at mine Nov. 30/02. 21,234

468,835

Statement for Lake Bessemer Ore for year ending November 30, 1902.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1st 1901	2,274	
Produced during year	165,480	
Total Lake Bessemer		167,754

Other Ores transferred to Lake Bessemer

Salisbury Bessemer 84,212

Note: Salisbury Bessemer was all shipped from
from docks as Lake Bessemer

Alford 62,598 ✓

Total of Other Ores 146,810

Total 314,564

Shipped:

Pioneer Furnace	857
Antrim Iron Co	6,049
Toledo	3,540
Lorain	24,962
Cleveland	75,479
Fairport	13,989
Ashtabula	127,674
Buffalo	6,2014

Total Shipped 314,564

In Stock at Mine Nov. 30. 1902. 0

Total 314,564

