

MORO MINE.

The following estimate of ore in sight was made by the Engineering Department:

Location.	Floors	Pillars Around "J" Shaft	Stopes & Partly developed	Probable	Totals
1st. Level		2,000			2,000
3rd. "	6,000	6,000	2,000	5,000	19,000
5th to 9th		5,000			5,000
6th level	3,000		1,500		4,500
8th level	2,000				2,000
10th level	3,000	2,000			5,000
11th level	20,000		2,000		22,000
12th level	35,000		37,500		72,500
13th level + Below			10,000	30,000	40,000
13th level				50,000	50,000
Totals	69,000	15,000	53,000	85,000	222,000

+ Estimated on basis of a 60 foot level.

Pillars necessary to hold up the walls are not included.

This shows a gratifying increase over last year, but it must be borne in mind that the main deposit is being rapidly exhausted. On account of the ore pitching so rapidly to the West, there is a very limited area on our side of the line below the 13th level. The North deposit developed on the 3rd and 6th levels may increase in size with depth and furnish considerable tonnage. It is my opinion, however, that no very large amount of ore will be found. Mr. Smyth mentions the possibilities of this deposit in his recent report.

AVERAGE ANALYSIS OF MINE SAMPLES FOR 1903.

	Iron	Phos.
Scotch, Run of Mine,	63.03	.141
Fine Scotch ore	62.82	.147
Coarse Scotch ore	62.90	.132

AVERAGE ANALYSIS OF CARGO SAMPLES FOR 1903.

Scotch ore Iron 61.79

The cost of mining 70782 tons of ore has been as follows:

PRODUCT	1903	1902	Increase	Decrease
	70782	76024		5242
General expense	.060	.051	.009	
Maintenance	.065	.064	.001	
Mining Expense	1.084	1.111		.027
Cost of production	1.209	1.226		.017
EXPLORATORY	.029		.029	
<u>DEPRECIATION</u>				
Inventory	.013		.013	
Improvement	.054	.019	.035	
Total Depreciation	.067	.019	.048	
Taxes	.056	.050		
Central Office	.025	.024	.001	
Cost on stockpile	1.380	1.319	.061	
Loading and Shipping	.052	.047	.005	
Total cost,	1.432	1.366	.066	

The increase of 6.6% in the total cost on cars is due first, to the higher price of fuel, which increased the items of compressors, hoisting and pumping 4.2¢ a ton; second, the depreciation of inventory and new construction; third, the higher cost of loading, which resulted from the necessity of loading 23,370 tons by hand in order to separate the coarse and fine ore.

ORE SHIPMENTS FOR 1903.

	POCKET	STOCKPILE	TOTAL	LAST YEAR
Scotch (Run of Mine)	7394	21071	28465	22914
Coarse Scotch	20363	7740	28103	25914
Fine Scotch	7865	8008	15873	19983
<u>Total</u>	35622	36819	72441	68811
Increase, -5.3%=-			3630	

DIVIDED IN GRADES AS FOLLOWS:

	SCOTCH	COARSE CLIFFS SHAFT	CRUSHED C.S.	TOTAL
Scotch (Run of Mine)	28465			28465
Coarse Scotch	548	27555		28103
Fine Scotch	387		15486	15873
<u>Total</u>	29400	27555	15486	72441

More.

MORO MINE.

ORE STATEMENT NOVEMBER 30th, 1903.

	SCOTCH	LAST YEAR
On Hand December 1st, 1902,	86445	79232
Output for year	70782	76024
<u>Total</u>	157227	155256
Shipments	72441	68811
Balance in stock	84786	86445
Decrease in ore in stock, -1.9%=-	1659	
Decrease in product, -6.9%=-	5242	

STATEMENT OF COMPARATIVE WAGES.

	1903	1902	Increase 1903
<u>SURFACE</u>			
Total number days	10442	10530	
Average rate	1.81	1.75	.06
Amount	18947.91	18462.94	
<u>UNDERGROUND</u>			
Total number days	21011 $\frac{3}{4}$	23679	
Average rate	2.17	2.15	.02
Amount	45710.00	50970.73	
Total days.	31462 $\frac{3}{4}$	34209	
Average rate	2.05	2.03	.02
Total amount	64657.91	69433.67	

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	AVG. PRICE	AMOUNT	AMOUNT 1902.
50% Powder	42800	.12	5100.00	5873.00
Fuse	60700	4.25	258.00	279.25
Caps	14500	6.00	87.00	103.50
Elec. Exploders	75	30.10	2.26	
Total			5447.26	6255.75
			1903	1902
Product			70782	76024
Pounds powder per ton of ore			.60	.64
Cost per ton for explosives			.077	.082

Moro.

MORO MINE.

AVERAGE WAGES AND PRODUCT.

Product 1903, 70782 tons	SURFACE		UNDERGROUND		TOTAL	
	1903	1902	1903	1902	1903	1902
Product 1902, 76024 tons						
Average number men working	37	37	72	82	109	119
Average wages per day	1.81	1.75	2.17	2.15	2.05	2.03
Average wages per mo.25 days	45.25	43.75	54.25	53.75	51.25	50.75
Average product per man per day	6.78	7.06	3.37	3.14	2.25	2.17
Labor cost per ton	.268	.243	.646	.670	.914	.913
Difference in labor cost per ton	+.022	+.026	-.024	+.006	+.001	+.032
Average product Breaking & Trammg			5.01	5.43		
Average wages for miners			2.37	2.37		
Average wages for trammers			1.85	1.85		
Average wages for contractors			2.37	2.37		

SURFACE.

A new blacksmith shop has been built across the street East of the old shop, and the machine shop now occupies the room made vacant by this change.

Since taking on so many new mines, the old machine shop has been too small to economically handle the largely increased amount of work, and additional room was absolutely necessary.

The new blacksmith shop cost \$2282.10, and remodeling the old shop, and taking down the partition wall, \$721.79, Moving blacksmith shop equipment, \$829.35, and re-arranging machine shop machinery \$962.29, making a total of \$4795.53. Everything is practically completed, except the traveling crane, which will be installed in the next sixty days.

HARD ORE LOCATION.

The location, as usual, was cleaned in the spring, but the fences were not whitewashed. I think this was a mistake, as it has a tendency to make the tenants keep their yards clean, and otherwise improve the premises. The cost of the work is certainly justified by the results. No work has been done on the houses in this location, except that required for ordinary maintenance.

This mine was closed December 1st., but the pumps are still being operated.

Moro.

L A K E M I N E.

The cost of mining 476821 tons of ore this year has been as follows:

	1903	1902	Increase	Decrease
PRODUCT	476821	477831		1010
General Expense	.020	.021		.001
Maintenance	.041	.047		.006
Mining Expense	.768	.770		.002
Cost of Production	.829	.838		.009
Exploratory	.003		.003	
<u>DEPRECIATION</u>				
Inventory		.001		.001
Improvement		.001		.001
New construction	.004	.042		.038
New No.4 Shaft <i>mg expense?</i>	.191	.049	.142	
Total Depreciation	.195	.093	.102	
Taxes	.045	.037	.008	
Central Office	.031	.026	.005	
Cost on stockpile	1.103	.994	.109	
Loading and Shipping	.016	.012	.004	
Total cost	1.119	1.006	.113	

It will be noticed that while the "Cost of Production" is .9 of a cent a ton lower than last year, the "Total cost on Cars" is .113¢ higher. This is accounted for by the increase in "New Construction" and "Taxes".

The entire cost of the shaft and equipment has been charged directly to the cost of ore.

L A K E M I N E.

DIVISION OF MINING COST FOR THE YEAR ENDING NOVEMBER 30, 1903.

	AMOUNT	COST	OUTPUT BY GRADES	LAKE BESS.	LAKE	SILICA	TOTAL
General Expense	9437.51	.020	South Deposit	147497	69217	8678	225392
Maintenance	19551.03	.041	2nd Level	460	41730		42190
Mining Expense			3rd Level		206477	64	206541
Air pipes	856.38	.002	4th Level		48		48
Compressors	8925.63	.019	Overrun	2650			2650
Hoisting	7275.05	.015	<u>Total</u>	165480	317472	8742	476821
Steam pumps	8308.84	.017	For 1902	165480	309184	3167	477831
Sing. & Shift Reprs	7582.17	.016	Increase		8288	5575	
Ming. Capt & Bosses	6823.31	.014	Decrease	14873			101
Dry House	945.12	.002					
Top Ldg. & Trang	5565.60	.012					
Stocking ore	6768.08	.014					
L.A.D. Pump. Exp	7536.06	.016					
Total	89574.78	.188					
Year 1902	85942.09	.179					

	South Deposit		2nd Level		3rd level		4th level		Total 1903		Total 1902	
	225392 tons		42190 tons		206541 tons		48 tons		476821 tons		477831 tons	
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
Drifting	10402.63	.046	3414.36	.081	12405.57	.060	9207.34	35428.90	.074	32991.29	.069	
Brkg. Ore	88407.75	.392	16683.46	.396	81013.40	.392	244.47	186349.08	.391	189345.62	.396	
Tramming	13801.78	.061	2587.15	.061	12589.77	.061	2.95	28981.65	.061	29576.95	.062	
Filling			302.84	.007	1145.06	.005		1447.90	.003	2761.60	.006	
Timbering	23879.66	.106	5214.25	.123	24112.16	.117	67.93	53274.00	.112	58564.24	.123	
Cave in			153.54	.004				153.54	.000	1283.55	.003	
	136491.82	.605	28354.60	.672	131265.96	.635	9522.69	305635.07	.641	314523.25	.659	
1902	136878.61	.675	68938.44	.635	106706.20	.674					.659	
Cost above accts		.188		.188		.188			.188			
Cost of Production		.793		.860		.823			.829			
Do. 1902		.854		.814		.853			.838			
Increase				.046		.030						
Decrease		.061							.009			

Lake.

L A K E M I N E.

DIVISION OF MINING COST, Continued.

<u>SUMMARY</u>	1903	1902
Mining Cost	.641	.659
Genl. Expense Items	.188	.179
<u>Total</u>	.829	.838
Decrease	.009	

ORE STATEMENT NOVEMBER 30th, 1903.

	BESSEMER	LAKE	LAKE BESS: SILICA	TOTAL	TOTAL LAST YEAR
On hand Dec. 1st, 1902		151223		151223	121819
Output for year	150607	317472	8742	476821	477831
<u>Total</u>	150607	468695	8742	628044	599650
Shipments	145956	301816	8742	456514	448427
Balance in stock	4651	166879		171530	151223
Increase in ore in stock	13.4%			20307	
Decrease in product	.2%			1010	

AVERAGE WAGES AND PRODUCT.

	SURFACE		UNDERGROUND		TOTAL	
	1903	1902	1903	1902	1903	1902
Product 1903, 476821 tons						
Product 1902, 477831 tons						
Average number men working	101	84	418	435	519	519
Average wages per day	1.95	1.94	2.22	2.23	2.16	2.18
Average wages per month, 25 days	48.75	48.50	55.50	55.75	54.00	54.50
Average product per man per day	15.48	17.99	3.96	3.80	3.15	3.14
Labor cost per ton	.126	.107	.559	.581	.685	.688
Difference in labor cost per ton	+.020	-.010	-.022	-.007	-.003	-.008
Average product, Breakg. & tramng,			6.35	6.31		
Average wages for Miners			2.26	2.28		
Average wages for trammers			2.26	2.28		
Average wages for Contractors			2.26	2.28		

The increase in surface men and cost per ton for Surface, is due to construction work on New Power Plant for No. 4 shaft.

L A K E M I N E.

AVERAGE ANALYSIS OF MINE SAMPLES.

	Iron	Phos.
Lake Bessemer	63.80	.040
Lake	60.12	.104
Lake Bessemer Silica	47.82	.039

ORE SHIPMENTS FOR 1903.

	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR.
Bessemer	89135	56821	145956	167754
Lake	205305	96511	301816	277506
Lake Bessemer Silica	8742		8742	3167
<u>Total</u>	303182	153332	456514	448427
Total last year	278047	170380	448427	
Increase 1.8%			8087	

AVERAGE ANALYSIS OF CARGO SAMPLES.

	Iron	Phos.
Lake Bessemer	63.50	.040
Lake	60.46	

STATEMENT OF COMPARATIVE WAGES.

	1903	1902	Increase or Decrease 1903.
<u>SURFACE</u>			
Total number days	30796	26273 $\frac{3}{4}$	
Average rate	1.95	1.94	Inc. .01
Amount	60043.97	50936.28	
<u>UNDERGROUND</u>			
Total number days	120422 $\frac{3}{4}$	124420	
Average rate	2.22	2.23	Dec. .01
Amount	266830.72	277568.12	
Total days	151218 $\frac{3}{4}$	150693 $\frac{3}{4}$	
Average rate	2.16	2.18	Dec. .02
Total amount	326874.69	328504.40	

Lake.

L A K E M I N E.

STATEMENT OF TIMBER USED FOR THE YEAR 1903.

STULL TIMBER.

SIZE	LINEAL FEET	AVG. PRICE	AMOUNT 1903	AMOUNT 1902.	FT. BD. MEASURE
6 to 8"	108070	.02	2161.40	1137.36	140491
8 to 10"	203632	.032	6557.32	6239.08	264722
10 to 12"	98646	.053	5239.17	7493.18	297911
12 to 14"	33426	.066	2203.00	2427.30	167130
14 to 16"	8654	.090	778.86	587.70	64905
16 to 18"	2576	.090	231.84	156.04	27048
Total	455004	.038	17171.59	18039.66	962207
Total 1902	463472	.039	18039.66	16982.94	1063029
Decrease for '03.			868.07		
<u>LAGGING.</u>					
5 foot	792031	.539	4269.90		
7 foot	276500	.600	1659.00		
Poles	95440	.01	954.40		
Total	1163971	.591	6883.30		
Total 1902	1515570	.558	8459.44		
Decrease for '03.			1576.14		
				1903	1902
Feet of timber per ton of ore				.954	.97
Feet of lagging per ton of ore				2.441	3.066
Feet of lagging per foot of timber				2.56	3.27
Cost per ton for timber and lagging				.050	.076
Equivalent of stull timber to Board Measure				962207	1063029
Feet Board measure per ton of ore				2.02	2.22
Total product				476821	477831

(Cost per ton for timber and lagging in 1901, .054)

Lake.

L A K E M I N E.

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	AVG. PRICE	AMOUNT	AMOUNT 1902.
40% Powder	42750	.10½	4488.75	7250.25
50% Powder	43112	.12	5168.94	2216.64
Fuse	230411	4.25	979.26	1021.71
Caps	78792	6.00	472.72	477.05
Total			11100.67	10965.65
			1903	1902
Product			476821	477831
Pounds powder per ton of ore			.180	.183
Cost per ton for explosives			.023	.023

The following estimate of ore in sight was made by the Engineering Department.

ESTIMATE OF ORE IN SIGHT DECEMBER 1st, 1903.

<u>Old Mine.</u>		
Above 1st level, Shaft pillars,	50,000	50,000
Above 2nd level, N E Shaft pillar	150,000	
S E	4,000	
N W	155,000	309,000
Above 3rd level, 271' Sub S E	34,000	
290' "	115,000	
3rd level, East of 7 room	32,000	
7 " E to 7th room W	632,000	
West end	720,000	1,533,000
Above 4th level, same as last year		150,000
<u>South Side Deposit</u>		
Above 300' level West	58,000	
Above 3rd " West	44,000	
Above 3rd " West	50,000	152,000
Total,		2,194,000

Lake.

L A K E M I N E.

COMPARATIVE STATEMENT MAINTENANCE ACCOUNT.

	1903	1902	Increase	Decrease
Tracks and Yards	3306.25	3252.48	53.77	
Docks, Trestles and Pockets	511.36	4297.51		3786.15
Buildings	58.80	513.62		454.82
Shop Machinery		14.00		14.00
Boilers	388.85	647.25		258.40
Hoisting Machinery	549.58	893.36		343.78
Compressors and Air Pipes	1350.37	453.79	896.58	
Cornish and Steam Pumps	373.55	426.82		53.27
Top Tram Engines and Cars	1087.25	899.77	187.48	
Skips and Skip roads	1086.65	746.86	339.79	
Underground tracks & Cars	1812.58	1299.69	512.89	
Electric Tram Plant	9025.79	9225.84		200.05
Testing Boilers and Engines		14.68		14.68
Total	19551.03	22685.67	1990.51	5125.15
Cost per ton	.041	.047		
Decrease for 1903	.006			3134.64

The decrease in cost for 1903 as compared with 1902 is \$3134.64, making a difference in cost per ton of .006.

Following is itemized statement of the various accounts under Maintenance.

TRACKS AND YARDS. Increase \$53.77

Comparative Tracks and Yards.

	1903	1902	Increase	Decrease
Side Tracks	1129.10	1046.01	83.09	
Surface	2177.15	2206.47		29.32
Total	3306.25	3252.48	53.77	

The increase in side tracks for the year is \$83.09, and a decrease in surface of \$29.32, leaving the net increase \$53.77.

L A K E M I N E.

The following is comparative statement of joint track expense, as per bills rendered by the Chicago & Northwestern Ry. Co.

	1903	1902	Increase	Decrease
Ordinary repairs and renewals	1485.96	878.04	607.92	
Moving tracks from cave on L S I Co.	503.08	1230.37		727.29
<u>Total</u>	1989.04	2108.41		119.37
Our proportion 1/3,	663.01	702.79		39.78

In moving the main line to the North of the cave, it was necessary to move a trestle of the Lake Superior Iron Co., which expense we paid. The cost being \$145.44.

DOCKS, TRESTLES AND POCKETS. Decrease \$3786.15. The cost for 1902 was \$3103.03 higher than for 1901, owing to the large amount of grading, as explained in report last year. There was no filling done this year, which explains the difference in expense. The cost of maintaining the rock trestle was \$128.85 due to settling ground.

BUILDINGS. Decrease \$454.82. No extraordinary repairs were made during the year. A new wash trough was put in the East Dry House.

The statement of each building is as follows:

B-U-I-L-D-I-N-G-S.

	1903	1902	Increase	Decrease
Office	4.89	29.79		24.90
Warehouse		1.82		1.82
Shops	4.10	20.17		16.07
Shaft House	1.80	131.59		129.79
Engine house	12.69	23.80		11.11
Dry House	35.32	197.57		162.25
Hospital		108.88		108.88
Total	58.80	513.62		454.82
Decrease for 1903				454.82

SHOP MACHINERY. Decrease \$14.00. There being no charges during the year.

BOILERS. Decrease \$258.40. The principle item was a new jacket for water heater which cost \$157.50. The general repairs being light for the year.

HOISTING MACHINERY. Decrease \$343.78. Of the total cost for the year, \$387.20 was for 1300 feet 1 1/4" wire rope; the balance being on ordinary repairs.

L A K E M I N E.

COMPRESSORS, RECEIVERS AND AIR PIPES. Increase \$896.58. During the year there were purchased eight No. 3½ Power Drills costing \$1152.77. Other charges were less than previous year.

STEAM PUMPS. Decrease \$53.27. No extraordinary repairs during year.

TOP TRAM ENGINE AND CARS. Increase \$187.48. New tram engine, cost for November was \$421.75, not completed.

SKIPS AND SKIP ROADS. Increase \$339.79. Cost of replacing 13 sheaves, \$71.30, and overhauling skips \$319.20. Total extraordinary \$390.50. The cost for skip wheels and babbit, exclusive of labor was \$374.61 as against \$234.14 for 1902, and increase of \$140.47.

UNDERGROUND TRACKS AND CARS. Increase \$512.89. Increase in repairs, and cost of new sublevel cars over 1902 was \$55.00. Increase in cost for 12lb. rail \$460.00 over 1902.

ELECTRIC TRAM PLANT. Decrease \$200.05.

Following is detailed statement of the various items making up the accounts, and the comparative cost with 1902.

	1903	1902	Increase	Decrease.
Engine	38.85	122.46		83.61
Dynamo	88.90		88.90	
Motors	5089.90	4619.88	470.02	
Wiring	522.78	406.98	115.80	
Tracks and Cars	3285.36	4076.52		791.16
Total	9025.79	9225.84	674.72	874.77
Net Decrease				200.05

ENGINES. Decrease \$83.61. No extraordinary repairs during year.

DYNAMO. Increase \$88.90. The total cost for year was on repairs to armature

MOTORS. Increase \$470.02.

The comparative cost for each motor is as follows:

	1903	1902	Increase	Decrease
Motor No.1	717.95	918.62		200.67
Motor No.2	701.97	664.53	37.44	
Motor No.3	795.83	719.05	76.78	
Motor No.4	1145.16	599.29	545.87	
Motor No.5	888.99	898.39		9.40
General Expense	840.00	840.00		
Lake.				
grand total	16 5089.90	4619.88	660.09	210.07

L A K E M I N E.

Comparative Cost for Motors, Continued.

	1903	1902	Increase	Decrease
Extraordinary repairs, New Parts etc., included in above figures,	1717.61	1224.75	492.86	
Total ordinary repairs,	3372.29	3395.13		22.84

Motor No.1.--The cost for repairs, after the collision of last year was \$307.46.

During the year one commutator was refilled, also two sets of panels. Total of extraordinary repairs \$385.96.

Motor No.2. Two commutators filled and two new brush holders. Total extraordinary repairs \$184.06.

Motor No.3. Repairs after collision \$67.72, also new gears, fields and bushings \$127.02. Total extraordinary repairs \$261.84.

Motor No.4. New gears \$33.00, frame \$125.00, broken by running off track. Total extraordinary repairs \$550.87.

Motor No.5. New field coils, gears, resistance columns and bushings. Total extraordinary repairs \$334.88.

WIRING. Increase \$115.80.

Covering wire on 3rd level \$134.40. No extraordinary costs or extensions.

TRACKS AND CARS. Decrease \$791.16.

Tracks. One man less in track repair gang during year. Supply cost also less than last year.

Cars. 28 pair wheels bought during year for 3rd level cars, cost \$350.00.

The detail of this account is as follows:

	1903	1902	Increase	Decrease
<u>Tracks</u>	1093.83	1957.42		863.59
<u>Cars.</u>				
Old cars	335.34	1151.72		816.38
New cars	1856.19	967.38	888.81	
<u>Total cars</u>	2191.53	2119.10	888.81	1679.97
<u>Total</u>	3285.36	4076.52		
Net decrease				791.16

There are now only nine of the old cars in use.

In April 1903 there were added ten additional side dump cars to the equipment, making 35 now in use. Total cost \$2137.48

L A K E M I N E.

The following statement shows the cost per ton for Maintenance, and Operating Electric Tram Plant, as compared with 1902.

Product, 1903, 476821	1903		1902		Decrease	
	Amount	Per ton	Amount	Per ton	Amount	Per ton
Product, 1902, 477831						
Engine	38.85	.000	122.46	.000		
Dynamo	88.90	.000				
Motors	5089.90	.011	4619.88	.010		
Wiring	522.78	.001	406.98	.001		
Tracks and Cars	3285.36	.007	4076.52	.008		
<u>Total</u>	9025.79	.019	9225.64	.019	200.05	.000
Operating	25259.51	.053	27661.97	.058	2402.46	.005
<u>Grand Total</u>	34285.30	.072	36887.81	.077	2602.51	.005

Lake.

L A K E M I N E.

The drifting and raising for the year has been as follows:

<u>OLD MINE</u>	<u>DEVELOPMENT MINED IN STOPES.</u>	
	<u>Feet</u>	<u>Feet</u>
117' sublevel	168	
237' "	68½	230
Second level	506	443
271' sublevel	700½	1161½
290' "	255	205½
Third level	180	
Fourth level	678½	
	2556½	2040
 <u>SOUTH SIDE</u> 		
214' sublevel	111	458
224' "	39	306½
242' "	45	
Second level	26	55
265' sublevel	51	11
285' "	79	130
300' "	98½	74½
312' "	57	42
Third Level	354	34
Raise to surface	87	
	947½	1111
No.4 shaft,		
Sinking and raising	308	
Timber tunnel	457	
Coal tunnel	120	885
Total	4389	3151
<u>Grand Total</u>		7540

L A K E M I N E.

Work in the different parts of the mine has been as follows:-

237' SUBLEVEL SOUTH & NORTH EAST.

This sublevel has been exhausted.

SECOND LEVEL.

All ore in the North West and South West has been mined to the floor of this level. East of No.7 room, three gangs of men are now taking the ore on the sill floor, and at this time have mined two thirds of what remains in that part of the mine.

Two large raises have been put up to the first level, one 150 feet East, the other 150' West of No.1 shaft. These are for the purpose of taking the ore around this shaft, when it is abandoned next spring. From the first level six raises have been put up 40 feet to the hanging; two East and four West of the shaft, and connected on this sublevel preparatory to mining the shaft pillar. For 240 feet on both sides of the shaft the pillars from the original "Room and Pillar System" have been left, and are designated as a whole "Shaft Pillar". Part of this ore can be used in the Bessemer mixture.

271' SUBLEVEL NORTH WEST & SOUTH WEST.

West of No.7 room this sublevel is exhausted. Great care was necessary in caving under the South West rooms, which were filled with mud, but it was accomplished without any accident.

271' SUBLEVEL NORTH EAST & SOUTH EAST.

East of the 7th room two gangs are working on the North East, and three on the South East, taking the ore from the foot to the hanging of the North and South deposits. The ore is badly mixed, and there is more or less rock drifting, besides the expense of sorting, which makes the ore from this territory expensive. On the levels above there was about one third rock to two thirds ore, and this rate continues on this sub as far as it has been opened.

291' SUBLEVEL SOUTH WEST & NORTH WEST.

West of the 7th room about one half the ore has been mined on this sublevel. At this time twenty contracts are working in this part of the mine. No work has been done on this sublevel in the North East and South East.

THIRD LEVEL.

No work has been done on the 3rd level North deposit during the year, excepting the extension of the rock drift at No.4 shaft to make tail and passing room at the plat.

Lake.

L A K E M I N E.

On the South deposit six raises have been put up West of the main drift, three to 300 foot level, and three to the second level. The past drift has been connected with No.3 shaft, which is now used as a timber road.

FOURTH LEVEL.

The cross cut to the shaft has been extended 275 feet in extremely hard diorite, and still has 200 feet to go. A drift has been driven 175 feet East in the footwall, and will be extended as far as No.1 shaft, and a raise put up to take the water from the East end of the mine to the new shaft.

SOUTH DEPOSIT.

All ore in the West end of the South deposit has been mined to the sill floor of the second level.

265' SUBLEVEL.

During the year all the ore on this level, lying in the South West corner has been mined. Three gangs are now working on the footwall side.

280' SUBLEVEL.

On this sublevel about 600 feet of drifting has been done, preparatory to taking out the ore when the 265' sub is exhausted.

312' SUBLEVEL.

This sublevel is exhausted, East of the third level, main drift. To the West very little work has been done, as the ore on the 300 foot level has not yet been mined. Now that the ore is exhausted above the second level, work in this part of the deposit will be vigorously pushed.

324' SUBLEVEL.

This sublevel is opened East of the third level main drift, and about two thirds of the ore mined. Seven gangs are working here at present. No work has been done West of the main drift.

The ore in the South deposit is being rapidly exhausted. During the year a number of diamond drill holes were put down from the 3rd level, with most discouraging results. The deepest ore was only 53 feet below the level.

Reference to the maps will show the result of the drilling.

It would not pay to drift from the 4th level for so small a quantity of ore, and it has therefore been decided to sink an auxiliary shaft in the main drift 200 feet North of the Lake Angeline line.

Lake.

L A K E M I N E.

NO.1 SHAFT.

Extensive repairs have been necessary to keep this shaft in condition. The total cost for the year being \$2511.53. The timbers are more or less rotten, but only such work as is absolutely necessary to keep it open will be done, as No.4 shaft and equipment will be completed by April 1st.

NO.4 SHAFT.

During the year this shaft has been completed to the 3rd level. We are now sinking to the 4th level and are down 50 feet.

The cost of the shaft and equipment to date has been as follows:

Drifting to line of shaft,		16712.63
Sinking & Raising to 3rd level	21126.80	
Timbering shaft	3390.06	
Timber drift	1539.84	
Making road	262.37	
Temporary compressor plant	719.28	
Rentals of Equipment	270.00	
Skip roads and guides	534.92	
Total		27843.27
<u>Engine & Boiler House.</u>		
Excavating	1794.33	
Foundation	1498.68	
Building	7263.80	
Total		10556.81
<u>Shaft House.</u>		
Foundation	743.39	
Building		
Guides, Chutes, Closing device etc.,		
Total		743.39
<u>Steam Heating Plant.</u>		
Temporary Heating Cost	102.05	
Total		102.05
<u>Coal Dock.</u>		
Moving timber	430.80	
Excavating	349.06	
Abutment	150.94	
Lake.		

L A K E M I N E.

<u>Coal Dock, Continued.</u>		
Dock to hold 5000 tons	4049.01	
Trestle from shaft to Boiler House		
Tunnell	422.16	
Total		5401.97
<u>New Dry.</u>		
Excavating	74.35	
Total		74.35
<u>Boiler Plant.</u>		
Boilers, Cost	5425.00	
Moving and erecting boilers	4155.16	
Breeching and connections	296.48	
Fuel Economizer & Installing	3608.58	
Smoke stack and erecting,	6096.89	
Murphy Stokers	2607.91	
Ash Bins and Machinery	1147.60	
Coal Machinery	92.00	
Total,		23429.62
<u>Compressor Plant.</u>		
Compressors	14073.58	
Cooling Tower	20.00	
Changing air pipe to Hard Ore	64.77	
Erecting Compressor & Condenser	630.46	
Total	14788.81	14788.81
<u>Hoisting Plant.</u>		
New Hoist complete,	14138.68	
Freight and erecting	423.02	
Total		14561.70
<u>Machinery Foundations.</u>		
Compressor foundation	2329.60	
Hoisting engine foundation	2072.28	
Electric plant foundation	172.06	
Total		4573.94
Stockpile dock,	941.48	941.48
<u>Grand Total</u>		<u>119730.02</u>

L A K E M I N E.

FIRE

We have again had fire in our coal pile, which has happened annually for the past four years.

This is primarily due to two causes; first, the height of the pile (30 feet), and second, the exposure to the weather. With the new coal dock finished the coal will be under cover, and the pile not over 12 feet high, and I then anticipate no further trouble.

FATAL ACCIDENTS.

There have been two fatal accidents. Seth Strand was killed April 21st., by being buried in a chute. The chute choked and Strand finding it difficult to start the ore by standing in the ladderway and using a bar, cut a small hole about 12 x 20" in the cribbing, crawled into the chute and started to loosen the ore above him. It suddenly came down, completely covering him, and smothering him. His body was recovered in about thirty minutes. He was an experienced miner, and knew the chances he was taking in attempting to start the ore while under it.

John Pearce was killed June 30th., by being run over by a railroad car, which was being dropped down from the pocket. He was moving lagging from the stockpile, and did not notice the car, although several men called to him to look out. He was slightly deaf and probably did not hear the warnings. The man who was breaking supposed of course he would step off, and made no attempt to stop the car, which was only running about three miles an hour, until too late.

Neither of these accidents can be attributed to the negligence of anyone in authority.

For further particulars, reference is made to the evidence before the Coroner's Jury.

SURFACE IMPROVEMENTS.

The engine and boiler house are finished, and the machinery partially installed.

The report of the Master Mechanic accompanying this report contains an itemized statement of this work to the first of December, so that it is unnecessary to go into details here.

Lake.

STOCKING AT PRESQUE ISLE.

Owing to the congested condition of the stockpile ground at the Mine, it was necessary to again stock at Presque Isle.

32,065 tons were stocked there at a cost of $7\frac{1}{2}$ ¢ per ton. This makes a total of 97,738 tons at that point.

LAKE DRAINAGE.

On September 15th a cave occurred in the South deposit near the Lake Angeline line, which carried down a section of the main launder. The repairs cost \$990.57, and the mine was closed five days, with a consequent loss of product of 7,000 tons. Since that time the ground in the vicinity has been gradually settling, and it has been necessary to frequently block up the launder to keep it level. There is constant danger of another cave, and in order to prevent a repetition of the accident of September 15th., it has been decided to move the launder North to the diorite fold between the North and South deposits, and carry it to a point opposite the West end of the drift which was driven round the Lake Superior caves three years ago. From here it will be carried between two caves to a connection with the old launder. This is at best a temporary expedient, but will probably be safe for another year.

The problem of disposing of the water from the East end is a very serious one, and is now being very carefully studied. Three plans have been discussed. First, to carry two pipe lines of 20" and 16" diameter respectively, across the Lake bottom on the diorite fold to a point South West of the Lake Superior No.2 Lake Shaft, and from there by launder to connect with the old launder near the Lake Angeline Office. Second, to drive a tunnel South of the Lake Angeline workings. This would be 1500 feet long, and for the greater part of the distance in rock. Third, to build a dam at the East end of the Lake, and pump the water over the hill to the North.

Each of these propositions have some serious objections, but I have placed them in what I consider their order of merit.

Our Engineers and those of the Lake Superior Co., are now making surveys and estimates, and I hope to be able to submit a plan for your approval in the near future.

Lake.

LAKE MINE.

CHANGE OF SHIFTS.

On October 1st., this mine changed from three 8-hour to two 10-hour shifts, and on November 1st., to one 10-hour shift.

The average ore per man per day for the first ten months underground was 3.88 tons, and for the last two months underground 4.39 tons. No comparison can be made on the total ore per man per day, as a large number of men have been employed for the last two months on new construction at No.4 shaft. The comparison however, between the results obtained underground, as between the 8 and 10-hour shifts is very favorable to the latter. I believe that we will be able to do even better than this, as the men become more accustomed to the new arrangement, and appreciate that they will be required to do a maximum day's work.

Wherever possible the force has been reduced, and in spite of the smaller production, I hope to keep the cost during the coming year, very close to that of the past year.

NEW COTTAGES. LAKE BANCROFT.

At the new Location on Lake Bancroft, the street has been graded and fences and walks built.

Owing to the settling of one of the houses on the East end of the North row, it was necessary to move it to the West end.

The location is now in excellent condition, and we hope to make it one of the show places of the town. *Total cost revenue*

PRIZES.

The system of giving prizes for well kept premises, vine planting and window box gardening has been continued with most gratifying results.

Instead of posting notices as formerly, they were sent by mail to our different tenants, which resulted in 55 applications for the competition in place of 21 last year. This method was suggested by the Committee on Awards, and will be continued next year.

The results obtained from the annual prizes donated by the Company, are well worth the money expended.

Respectfully submitted.

M. M. Duncan

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Agent.



CLEVELAND IRON MINING COMPANY

MISCELLANEOUS DATA

- 1 Lake Mine Cost Sheet
- 2 Hard Ore Mine Cost Sheet
- 3 Hematite Mine Cost Sheet
- 4 Analysis of Improvement & New Construction
- 5 Comparative Statement of Taxes
- 6 Report of Operating Steam Shovel No.4
- 7 Record of Fire Insurance
- 8 Division of Cost, Lake Mine
- 9 Statement of Barn Expense
- 10 Comparative Statement of General Expense Accounts for Five Years
- 11 Statement of Cost for Analysis, Including Sampling & Crushing
- 12 Cost of Diamond Drilling, Lake Mine
- 13 " " " " Hard Ore Mine
- 14 Statement of Rented Houses, Repairs, etc., Hard Ore Location
- 15 " " " " Hematite Mine
- 16 " " " " Second Addition
- 17 Report of Operating & Maintaining Electric Haulage Plant, Lake Mine
- 18 Statement Showing Charges to Dwellings not Rented
- 19 Statement of Land Improvement
- 20 Summary of Depreciation, Lake Mine
- 21 Detail of Accounts Receivable
- 22 " " " Payable
- 23 Summary of Expense at President's Cottage & Agent's Residence
- 24 Statement of Charges to Hard Ore Location
- 25 Laboratory Statement
- 26 Record of Cost of Work at Hard Ore Shops
- 27 Record of Delays from Various Causes, Hard ore Mine
- 28 " " " " " Lake Mine
- 29 Ore Statements
- 30 Expense of Pumping at Lake Angeline
- 31 Expense of Additional Apparatus at Lake Angeline

THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the of 1903 and 1902

Main cost of production table with columns for Labor, Supplies, Total, and General Expense for the years 1902 and 1903.

Table with 6 columns: ACCOUNTS NOT SENT OFF, 12 Mos 1901, 12 Mos 1902, Slaking (Feet, Cost, Per Ft), Drifting (Feet, Cost, Per Ft), Comparative Cost (1901, 1902).

REMARKS, ANALYSIS OF LABOR, and LABOR sections. Includes handwritten notes about mine operations and labor cost breakdowns.

Summary of Supplies Used During *Years 1903 & 1902*

THE CLEVELAND-CLIFFS IRON CO.		COST OF SUPPLIES.		COST PER TON.	
<i>Lake</i>		1903	1902	For	For
Product.	MINE.	<i>tons</i>	<i>tons</i>	1903	1902
General Supplies,		717461	645569	015	013
Iron and Steel,		328539	297813	007	006
Oil, Grease and Candles,		505606	468347	011	010
Machinery Supplies,		5450213	490521	114	010
Building Material,		1698814	511864	036	011
Explosives,		1645879	1611357	035	034
Mine Timber,		2490226	2679878	082	086
Fuel,		2440126	2022854	081	042
Barn,		68100	38633	001	001
Sundries,		584814	478808	022	010
Total Supplies,		15929478	9245639	334	193
Miscellaneous,		1857914	1993489	039	042
Total,		17787392	11239128	373	235
SUMMARY.					
As per Cost Sheet,		17441630	10950362	366	229
Improvement,					
New Construction,		345762	288766	007	006
Other Charges,					
Total,		17787392	11239128	373	235

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Lake
 Mine.
 Cost Sheet for the Month of
1903 and 1902

THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the year of 1903 and 1902.

Main cost accounting table with columns for Month of 1903 (10 months), 1902 (12 months), and 76.024 years. Rows include GENERAL EXPENSE, MAINTENANCE-Repairs of, MINING EXPENSE, EXPLORATORY, DEPRECIATION, ETC., and LOADING AND SHIPPING.

ACCOUNTS NOT BUNK OFF table with columns for Month, Amount, Per Ton, Staking, Drifting, Comparative Cost, and Comparative Cost.

REMARKS: Like Hard Ore Mine closed down Nov. 30th 1903. ANALYSIS OF LABOR: Labor as per Cost Sheet, Other Charges, Total, As per Labor Statement, General Pay-Roll, Total.

Summary of Supplies Used During Years 1903 to 1902

THE CLEVELAND-CLIFFS IRON CO.		COST OF SUPPLIES.		COST PER TON.	
Product.	MINE.	1903	1902	For	For
		70762 tons	76024 tons	1903	1902
General Supplies,		252380	201880	036	026
Iron and Steel,		93354	96719	013	013
Oil, Grease and Candles,		149106	146054	021	019
Machinery Supplies,		474449	289889	067	038
Building Material,		86576	104790	012	014
Explosives,		693657	875123	098	116
Mine Timber,		15570	12650	002	002
Fuel,		1228583	1057168	174	139
Barn,		200		000	
Sundries,		76068	101018	011	013
Total Supplies,		3069913	2884958	434	380
Miscellaneous,		206553	296368	029	038
Total,		3276466	3181326	463	418
SUMMARY.					
As per Cost Sheet,		3082066	3000103	431	395
Improvement,					
New Construction,					
Other Charges,		22400	181223	032	028
Total,		3276466	3181326	463	418

Cost Sheet for the Month of 1903
 Mine Hard Ore

THE CLEVELAND-CLIFFS IRON CO.

Cost of Production for the Month of **NOVEMBER** 190**3**

HEMATITE	Mine.	Month of November , 190 3				No Tons.		12 Months, 190 3		12 Months, 190 2	
		Labor.		Supplies.		Total.		No Tons.		No Tons.	
		.. Amount*	Cost Per Ton.	.. Amount*	Cost Per Ton.	.. Amount*	Cost Per Ton.	.. Amount*	Cost Per Ton.	.. Amount*	Cost Per Ton.
GENERAL EXPENSE,											
Insurance,				13 50		13 50		13 50		13 50	
Engineering,											
Analysis,											
Relief Fund,											
Mine Office,											
Total,				13 50		13 50		13 50		13 50	
MAINTENANCE—Repairs of											
Tracks and Yards,											
Docks, Trestles and Pockets,											
Buildings,											
Shop Machinery,											
Bollers,											
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,				13 50		13 50		13 50			
Per Cent,											
EXPLORATORY.											
Exploring in Mines,											
Total,											
DEPRECIATION, ETC.											
Inventory,											
Improvement,											
New Construction,											
Total,											
Taxes,						322 67		322 67		272 69	
Central Office,											
Total Cost on Stock Pile,				13 50		336 17		336 17		286 19	
LOADING AND SHIPPING.											
Steam Shovel,											
By Hand,											
At Pockets,											
Series (L.E. Deck),											
Shipping Expense,											
Total,											
Total Cost on Cars,				13 50		336 17		336 17		286 19	
Royalty,											
Comm'n and Expense, Cleveland Office,											
Total Cost,											

	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,														
Improvement,														
Total,														

REMARKS.

ANALYSIS OF LABOR.

Labor as per Cost Sheet,
Other Charges,
Total,

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

Summary of Supplies Used During _____ 190__

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,					

 (Signature)
 190__
 Cost Sheet for the Month of _____
 Mine _____
 THE CLEVELAND-CLIFFS IRON CO.

12 30 12 20 12 30
 12 30 12 20 12 30
 12 30 12 20 12 30
 12 30 12 20 12 30

THE CLEVELAND IRON MINING COMPANY

ANALYSIS OF IMPROVEMENT & NEW CONSTRUCTION, NOVEMBER 30TH, 1903

	INVTRY NOV. 30 1902	EXPENDTRE FOR YEAR	TOTAL	DEPRECTN. FOR YEAR	INVENTY NOV. 30 1903	CHGD TO OTHER CORPTNS
<u>MORO IMPROVEMENT</u>						
Auxiliary Steam Pump		3829 73	3829 73	3829 73		
TOTAL		3829 73	3829 73	3829 73		
<u>H.O. NEW CONSTRUCTION</u>						
New Diamond Drill		1529 37	1529 37	1529 37		<i>Chgo. Equip. 1529 37</i>
Additional Shop Room		4795 53	4795 53		4795 53	
TOTAL		6324 90	6324 90	1529 37	4795 53	
<u>LAKE NEW CONSTRUCTION</u>						
New No. 4 Shaft		91091 90	91091 90	91091 90		
New Underground Cars		2137 48	2137 48	2137 48		
TOTAL		93229 38	93229 38	93229 38		
<u>LAKE ANGLNE. DRAINAGE</u>						
Repairing Launderers		2485 77	2485 77	1864 33		621 44
Pumping Exp. Current Yr. 12 Mos.		4312 55	4312 55	3870 38		442 17
Opt. Plant #2 by LSICO. 12 Mos.		1801 35	1801 35	1801 35		
TOTAL		8599 67	8599 67	7536 06		1063 61
New Houses 2nd. Addtn.		2976 07	2976 07	2976 07		
TOTAL CIMCO		114959 75	114959 75	109100 61	4795 33	1063 61
<u>"TOTAL" DIVIDED AS FOLLOWS</u>						
Total Lake Mine			100765 44			
Total Moro Mine			3829 73			
Total Equipt. & Shop Acct.			6324 90			
Total LSICO Acct. Repairing Lndrs			621 44			
Total LSICO Acct. Lake Ang. Drg.			442 17			
New Houses, 2nd. Addition			2976 07			
			114959 75			

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THE CLEVELAND IRON MINING COMPANY

COMPARATIVE STATEMENT OF TAXES FOR YEARS 1903 AND 1902.

DESCRIPTION	1 9 0 3				1 9 0 2			
	VALUATION		TAXES		VALUATION		TAXES	
CITY OF ISHPEMING								
E $\frac{1}{2}$ of Sec.10-47-27,except that Part thereof included in the C.I.M.CO'S addition to the City of Ishpeming & that part known as the C.I.M.CO'S Nebraska Hill Location (so called) except the Rights of Way of the C&N WRY, LS&IRy, & DSS&ARY.CO.across said Land in a Northeasterly & South westernly direction	891000	00	19904	68	891000	00	16821	24
W $\frac{1}{2}$ of W $\frac{1}{2}$ Sec.11-47-27 except the Rights of Way of the DSS&ARY. & LS&I Ry.across said Land in an Easterly & Westerly direction about 140 acres	6000	00	134	04	6000	00	113	28
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 2--47-27 38.92Acrs	8100	00	180	96	8100	00	152	93
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 2--47-27 38.60 "	1600	00	35	75	1600	00	30	21
S $\frac{1}{2}$ of NW $\frac{1}{4}$ of Sec. 2--47-27 80. "	4600	00	102	77	4600	00	86	85
Nebraska Hill Location Lots	65125	00	1507	73	65125	00	1433	26
Personal, Moro Mine	157318	00	3514	43	152849	00	2885	45
Personal, Lake Mine	313682	00	7007	57	335351	00	6331	31
BOATS:- Pontiac, Frontenac,Cadillac, Pioneer,Choctaw,Andaste, Chattanooga, Falcon	120000	00	2680	77	120000	00	2265	48
TOTAL CITY TAXES	1567425	00	35068	70	1584625	00	30120	01
Collection Fees			350	69			301	21
GRAND TOTAL	1567425	00	35419	39	1584625	00	30421	22
Rate (not including Fees)			2	24			1	89
Decrease over last Year .011%	17200	00						
Increase over last year 16.4%			4998	17				
CITY OF MARQUETTE								
Stock Pile at Presque Isle	125000	00	2590	64	75000	00	1398	34
TOTAL	125000	00	2590	64	75000	00	1398	34
Collection Fees			25	91			13	99
GRAND TOTAL	125000	00	2616	55	75000	00	1412	33
Rate (not including fees)			2	07			1	88
Increase over last Year	50000	00						
Increase over Last Year			1204	22				
GRAND TOTAL ISHPEMING & MARQUETTE	1692425	00	38035	94	1659625	00	31833	55
AMT.OF TAXES AS PER STATEMENT CHARGED AS FOLLOWS								
Moro Mine	168361	00	3539	10	200247	00	3801	25
Hard Ore Location	425440	00	9912	27	389085	00	7641	65
Lake Mine	964324	00	21554	32	935993	00	17829	82
Hematite Mine	14300	00	322	67	14300	00	272	69
Treasurer,Taxes on Boats	120000	00	2707	58	120000	00	2288	14
TOTAL TAXES	1692425	00	38035	94	1659625	00	31833	55

CLEVELAND IRON MINING COMPANY

REPORT OF OPERATING STEAM SHOVEL NO.4, SEASON 1903.

	1903		1902	
Number of Days Shovel Worked	76		164	
Average number hours worked per Day	4	05	5	27
Total number Tons Loaded	101592		311051	
Average Tons per Day Loading	1337		1896	
Number of Men Working with Shovel	11		11	
Average Tons per Man per Day	122		172	
Average wages per day for Runners	2	48	2	50
" " " " " Laborers	1	73	1	75
Labor Cost per Ton Operating		017		014
Supply " " " "		003		003
TOTAL,		020		017

	1903	1902	1903		1902	
	Tons	Tons	Amount	Cost	Amount	Cost
Hard Ore	2633		74	60 .023		
Lake	84627	84667	2224	94 .026	1594	22 .019
Cliffs Shaft	12077	173157	310	16 .025	3100	80 .018
Salisbury	2255	53227	65	24 .029	1009	22 .019
TOTAL,	101592	311051	2674	94 .026	5704	24 .018

<u>OPERATING SHOVEL</u>						
Labor		1741	77	.017	4312	80 .014
Supplies		354	90	.003	1088	16 .003
<u>TOTAL,</u>		2096	67	.020	5400	96 .017

<u>REPAIRS TO SHOVEL</u>						
Labor & Supplies		578	27	.006	303	28 .001
<u>Total Operating & Repair Cost,</u>		2674	94	.026	5704	24 .018

CLEVELAND IRON MINING COMPANY

RECORD OF FIRE INSURANCE ON MINE BUILDINGS & DWELLINGS

YEAR ENDING NOVEMBER 30TH. 1903.

	AMT. OF INSURANCE CARRIED	PREMIUM ACCRUING FOR 1903	FIRE LOSS PAID 1903
<u>HARD ORE MINE</u>			
Mine Buildings	16350 00	347 00	
Dwellings	28300 00	141 52	<i>Changed "H.O. Location"</i>
<u>TOTAL</u>	44650 00	488 52	
<u>LAKE MINE</u>			
Mine Buildings	15300 00	356 50	
<u>HEMATITE MINE</u>			
Dwellings	2700 00	13 50	
TOTAL C.I.M.CO.	62650 00	858 52	

NOTE:-
The Cleveland Iron Mining Co.
had no fire loss during year 1903.

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Lake Mine.
Division of Mining Cost for the year ending
Nov. 30, 1903

	Amount	Cost	Division of Product	Lower Run	Take	Loss	Total
General Expense	9437 51	070	South Dipoint	147497	69217	8678	226392
Maintenance	19551 03	041	2 ^d Level	460	41730		42190
Mining Expense			3 ^d "		206477	64	206541
Air Pipes	856 38	002	4 th "		48		48
Compressor	8925 63	019	Overrun	2650			2650
Hauling	7275 05	015					
Steam Pump	8308 84	017	<u>Total</u>	156607	317472	8742	476821
Shifting & Shaft Repairs	7582 17	016	For 1902	165480	309184	3167	477831
Wing Capt. & Bosses	6823 31	014	Increase		8218	5575	
Dry House	945 12	002	Decrease	14873			1010
Top Landing & Tramming	5565 60	012					
Staking Ore	6768 08	014					
L. A. A. Pump Exp	7536 06	016					
<u>Total</u>	89574 78	188					
Year 1902	85942 09	179					

	South Dip		2 ^d Level		3 ^d Level		4 th Level		Total 1903		Total 1902	
	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost	Amount	Cost
Drifting	10402 63	046	3413 36	081	12405 57	060	9207 34		35428 90	074	32991 29	069
Breaking Ore	88407 75	392	16683 46	396	81013 40	392	244 47		186249 08	391	189345 62	396
Tramming	12801 78	061	2537 15	061	12589 77	061	295		28981 65	061	29576 95	062
Filling			302 84	007	1145 06	005			1447 90	003	2761 60	006
Timbering	23379 66	106	5214 25	123	24112 16	117	67 93		53274 00	112	58564 24	123
Cave In			153 54	004					153 54	000	1283 55	003
	136491 82	605	28354 60	672	131265 96	635	9522 69		305635 07	641	314523 25	659
For 1902	128878 67	675	68938 44	635	106706 20	678				659		
Cost Above Accts		188		188		188				188		
Cost of Production		799		860		823				829		
Cost of Production 1902		854		877		853				838		
Increase				046		030						
Decrease		061								009		

Summary	1903	1902
Mining Cost	641	659
Plant Exp. Items	188	179
Total	829	838
Decrease	009	

THE CLEVELAND-CLIFFS IRON COMPANY

STATEMENT OF BARN EXPENSE FOR THE YEAR ENDING NOV.30,1903.

HARD ORE MINE	1903.			1902.		
	Amount		Cost Per Day	Amount		Cost Per Day
Number of Horses	16			16		
Number of Days Worked	4309			4378		
Number of Days Idle	1206			1154	5	
Number of Days Sick	90			173	5	
<u>TOTAL DAYS</u>	5605			5706		
Cost of Feeding, Bedding, etc.	1775	44	.317	1956	17	.342
Barn Supplies, Shoeing etc.	218	41	.039	312	43	.055
Harness & Wagon Repairs	156	79	.027	168	67	.029
<u>TOTAL</u>	2150	64	.383	2437	27	.426
Barn Labor Attendance, etc.	1142	16	.204	1024	33	.180
<u>TOTAL COST</u>	3292	80	.587	3461	60	.606
<u>ANALYSIS OF FEED & BEDDING</u>						
	<u>1903</u>			<u>1902</u>		
Oats	70048#			69184#		
Hay	100400#			103200#		
Mixed Feed	28020#			19325#		
<u>TOTAL</u>	198468#			191709#		
Salt		3	89	.000		3
Bedding		52	01	.009		67
<u>TOTAL</u>		1775	44	.317		1956
						17
						.342
Oats - Pounds per Horse per Day				12.5		12.1
Hay - " " " " "				17.9		18.1
Mixed Feed " " " " "				5.0		3.4
<u>TOTAL Lbs. per Horse per Day</u>				35.4		33.6

CLEVELAND IRON MINING COMPANY.

COMPARATIVE STATEMENT OF GENERAL EXPENSE ACCOUNTS FOR

FIVE YEARS, ENDING NOV. 30TH. 1903.

GENERAL & MINE OFFICE.	1903		1902		1901		1900		1899	
Superintendent)					4135	62	4464	48	4423	26
Clerks)	12177	54	10616	44	7049	52	8829	87	5181	01
Master Mechanic	2053	17	1925	38	2365	98	2276	09	1280	10
Watchman	872	95	867	65	1177	27	1598	60	1041	80
Choreman	158	40	168	85	168	04	171	60	157	93
Stationery & Printing	566	14	362	18	448	57	541	38	384	62
Telephone & Telegraph	381	62	362	81	459	51	423	55	354	95
Traveling	61	30	98	96	330	78	273	76	237	23
Fuel & Light	347	15	326	62	444	73	546	03	261	23
Water & Ice	29	20	36	67	65	84	35	50	20	25
Livery & Stable Expense	1324	30	883	70	858	33	863	12	583	38
Postage & Box Rent	158	79	105	80	93	25	139	60	81	80
Papers & Periodicals	10	34	9	00	13	66	13	15	14	00
Freight & Express	30	30	20	51	26	69	24	14	19	95
Donations	543	63	748	76	446	99	950	33	97	03
Petty Office Expense	101	64	89	14	73	48	77	74	90	10
Exchange	389	00	388	00	421	00	592	00	308	00
Revenue Tax	3	63			50	28	256	87	239	89
Miscellaneous	156	10	86	64	339	07	302	69	4	04
Office Furniture & Fixtures	149	23	195	88	65	54	125	21	144	03
Legal	445	04	76	04	307	96	636	66	567	98
Advertising	12	66	10	00			15	00	15	00
Janitor	117	88	107	93	104	89	90	67		
Consulting Geologist	614	92	667	07						
" Mining Captain	149	32	186	69						
Uncollected Debts	24	68								
Consulting Vet'y. Surgeon	26	68								
<u>TOTAL</u>	20905	61	18340	72	19447	00	23248	04	15507	58
<u>GENERAL EXPENSE.</u>										
Fire Insurance	718	92	667	41	854	63	958	64	666	14
Boiler "	96	00	93	51	99	42	176	43	60	50
Taxes	25416	09	21903	76	21133	32	21850	91	19186	69
Engineering	2624	52	2674	46	2230	23	3033	62	1562	10
Analysis	3421	80	3449	23	4004	42	5002	17	3943	26
Relief Fund	2666	10	2638	10	2928	00	4175	20	2485	08
<u>TOTAL</u>	34943	43	31426	47	31250	02	35196	97	27903	77
<u>GRAND TOTAL</u>	55849	04	49767	19	50697	02	58445	01	43411	35
Land Improvement			142	15						
<u>Total</u>			49909	34						
Volunteer General Exp.									1422	30
Imperial " "									1184	57
<u>Total</u>									46018	22
CENTRAL OFFICE	16702	31	14361	36						
HARD ORE	7818	73	7648	89						
L A K E	30991	83	27612	90						
HEMATITE	336	17	286	19						
<u>TOTAL</u>	55849	04	49909	34						

CLEVELAND IRON MINING COMPANY

STATEMENT OF COST FOR ANALYSIS, INCLUDING SAMPLING AND CRUSHING

FOR EACH MINE, YEAR ENDING NOVEMBER 30TH. 1903.

<u>HARD ORE MINE</u>		NO. DETRS.	PER DETR.	AMOUNT.	
Laboratory Expense		1693	.0992	168	04
Sampling Etc.					
	Total,	1693	.0992	168	04
	" 1902	1817	.0940	171	83
<u>LAKE MINE</u>		NO. DETRS.	PER DETR.	AMOUNT.	
Laboratory Expense		16167	.1015	1641	42
Sampling Etc.			.0984	1590	26
	Total,	16167	.1999	3231	68
	" 1902,	14265	.2276	3277	40

		NO. DETR 'NS.	AMOUNT.	
Total Hard Ore		1693	168	04
" Lake		16167	3231	68
GRAND TOTAL,		17860	3399	72
" "	1902		3449	23

THE CLEVELAND-CLIFFS IRON COMPANY

STATEMENT OF COST FOR ANALYSIS, INCLUDING SAMPLING AND CRUSHING
YEAR ENDING NOVEMBER 30TH. 1903.
SUMMARY FOR THREE COMPANIES.

	NO. DETR 'N.	RATE	AMOUNT.	
Cleveland Iron Mining Co.	17860	.1903	3399	72
Iron Cliffs Co.	18560	.1341	2488	46
Cleveland-Cliffs Iron Co.	16903	.2212	3737	30
TOTAL,	53323	.1805	9625	48
" 1902	533 27	.1808	9643	36

CLEVELAND IRON MINING COMPANY.

COST OF DIAMOND DRILLING, LAKE MINE YEAR ENDING

NOVEMBER 30TH. 1903.

LABOR.	DAYS.	AMOUNT.	COST PER FT.
Foreman & Setter	14	50 75	.0336
Operating	272	578 72	.3835
Shop Labor & Repairing		2 81	.0019
TOTAL,	286	632 28	.4190
<u>SUPPLIES.</u>			
Fuel & Light		337 13	.2235
Oil & Waste		5 70	.0038
Bits & Tools		12 31	.0082
Repairs, etc.		94	.0004
Carbon 10 ⁴⁰ / ₆₄ kts.		610 93	.4050
General Supplies		5 05	.0033
TOTAL,		972 06	.6442
Additions to Equipment, Rental etc.		129 00	.0855
TOTAL COST,		1733 34	1.1487
Total feet drilled	1509		
Avg. ft. per day of 10 hrs.	10.55		
" " " man per day	5.28		
Feet per karat of Carbon	141		
Avg, cost of carbon per karat	57.50		
" " per foot	.40 1/2		

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CLEVELAND IRON MINING COMPANY.

COST OF DIAMOND DRILLING, HARD ORE MINE YEAR ENDING
NOVEMBER 30TH. 1903.

LABOR.	DAYS	AMOUNT.		COST PER FOOT	
				1903.	1902.
Foreman & Setter	20 1/2	75	25	.067	
Operating	329 1/4	752	43	.667	
Shop Labor & Repairing		37	58	.033	
TOTAL,	349 3/4	865	26	.767	
<u>SUPPLIES.</u>					
Fuel & Light		114	81	.102	
Oil & Waste		10	28	.009	
Bits & Tools		35	74	.032	
Repairs, etc.		9	08	.008	
Carbon 15 5/8 kts.		749	14	.664	
General Supplies		71	48	.063	
TOTAL,		990	53	.878	
Additions to Equipment, Rental etc.		166	25	.147	
TOTAL COST,		2022	04	1.792	
Total feet drilled				1128	
Avg. ft. per day of 10 hrs.	185 1/2			6.08	
" " " man per day	349 3/4			3.225	
Feet per karat of Carbon				72.00	
Avg.cost of Carbon per karat				47.95	
Avg. " per foot				1.792	

CLEVELAND IRON MINING COMPANY

HARD ORE - LOCATION
STATEMENT OF RENTED HOUSES, SHOWING RENT RECEIVED
COST OF REPAIRS ETC. FOR YEAR ENDING
NOVEMBER 30TH. 1903.

House NO.	PRESENT OCCUPANT.	LOT NO.	RENT RECD.	RE-PAIRS	INSURANCE	TAXES	TOTAL REPAIRS
1	Louis Bisonette	1	60 00	23 79	2 50		26 29
2	John Seaberg	2	48 00	3 00	1 25		4 25
3	Chas. Peterson)	13	32 00				
3	Matt. Aho)	13	48 00	50 39	3 00		53 39
4	John Sandell	15	73 00	73	2 00		2 73
5	Fred Saunders	16	84 00	16 86	2 50		19 36
8	Louis Farley	19	48 00	47 47	3 00		50 47
9	Phip Pepin	23	84 00	25 64	4 00		29 64
11	Henry Osier	25	65 00	16 86	2 00		18 86
14	Thos. D. Wearne	28	60 00	7 09	2 00		9 09
15	Henry Lerette	29	60 00	25 79	2 00		27 79
16	Claus Johnson	30	60 00		1 50		1 50
17	James Trewick	31	40 00	27 14	1 75		28 89
18	John Hennessy	32	60 00	10 51	1 25		11 76
19	Isaac Moss	33	60 00	2 04	1 25		3 29
21	Wm. E. McKee	49	120 00	41 18	7 50		48 68
24	Fred Vogtline	56	60 00	28 40	2 00		30 40
25	Steve Moyle	57	60 00	52 10	2 00		54 10
26	Rich. Lemin)	58	71 00				
26	John Jemin, Jr.)	58	61 00	30 48	7 50		37 98
27	Jac.	59	60 00	12 48	2 00		14 48
28	A. P. Peterson	60	60 00	2 13	2 00		4 13
29	Mrs. John Nichols	61		10 99	2 00		12 99
30	Emanuel Stephens	62	60 00	35	2 00		2 35
31	J. F. Van Brocklin	63	88 00	3 94	4 00		7 94
32	Abe Cox	64	84 00	7 50	3 00		10 50
33	Ge. Brederson	69	60 00		2 00		2 00
34	Alf. Bone	70	60 00	5 78	2 00		7 78
35	John H. Gill	71	60 00	6 92	2 00		8 92
36	Manni Eskila S. 1/2	72	50 50				
36	Wm. Asikainen N. 1/2	72	48 00		3 00		3 00
37	F. J. Baker	79	96 00	67 12	9 00	35 51	111 63
38	Alfred Collick	80	88 00	154 33	7 50	30 16	191 99
	Misc. House Rents		1 00	24			24
	TOTAL,		2069 50	681 25	89 50	65 67	836 42
	Agent's Residence		240 00				
	Total,		2309 50				
	Less amt. for Lot Rents Credited to House Rents		2 50				
	Net TOTAL,		2307 00				
Total 1902,			2090 25	1168 11	88 17	54 34	1310 62
			<u>1903.</u>				
Net Earnings			1233.08				
Per cent earnings on Ins. Valuation			7.2%				
Insurance Valuation			17100 00				
							<u>1902.</u>
							779.63
							4.46%
							17500 00

CLEVELAND IRON MINING COMPANY.

HEMATITE MINE

STATEMENT OF RENTED HOUSES, SHOWING RENT RECEIVED

COST OF REPAIRS ETC. FOR THE YEAR ENDING

NOVEMBER, 30TH. 1903.

House NO.	PRESENT OCCUPANT.	RENT RECD.	REPAIRS	INSURANCE	TAXES	TOTAL EXPENSE
1	Cyrill Tourville	48 00	10 11	5 00		15 11
2	James Pascoe (vacant)			2 50		2 50
3	Jacob Roslosnik)	18 00				
3	Emanuel Pope)	18 10		2 50		2 50
7	John Moreoni (vacant)	23 15		1 75		1 75
8	Jos. H. Roberts	20 35		1 75		1 75
	Total,	127 60	10 11	13 50		23 61
	Total 1902,	187 90	30	13 50		13 80
		<u>1903.</u>	<u>1902.</u>			
	Net Earnings for year	103 99	174 10			
	Per cent Earnings on Insurance Valuation	3.8	6.45%			
	Insurance Valuation	2700 00	2700 00			

CLEVELAND IRON MINING COMPANY

SECOND ADDITION - LOCATION

STATEMENT OF RENTED HOUSES, SHOWING RENT RECEIVED
COST OF REPAIRS ETC. FOR THE YEAR ENDING
NOVEMBER 30TH. 1903.

House No.	Present Occupant.	RENT RECD.	RE-PAIRS	INSURANCE	TAXES	TOTAL EXPENSE
1	Jos. Hocking	132 00	3 70	4 00	<i>Paid by Mearns Appie.</i>	7 70
2	Jas. Trembath	120 00		4 00		4 00
3	Wm. Behenna	60 00	12 00	3 50		15 50
4	Helmer Kinstrand	86 25	4 85	3 50		8 35
5	Chas. Walline	120 00		3 50		3 50
6	Chas. Erickson	120 00		3 50		3 50
7	H. Kinstrand (vacant)	79 00	94 54	3 50		98 04
8	Jerry Nault "	17 50	113 10	3 50		116 60
9	W. H. Baldwin	62 50	121 79	3 50		125 29
10	Abram Couch	100 00	114 19	3 50		117 69
11	Mat. Thompson	120 00	88 74	3 50		92 24
12	Wm. F. Carlson	115 00	8 08	3 50		11 58
13	Wm. Luke	120 00	3 34	3 50		6 84
14	Jerry Nault	120 00		3 50		3 50
15	Chas. Welland (vacant)	25 00	9 15	3 50		12 65
16	Wm. Russell "	24 00		3 50		3 50
17	H.L. Ramsdell "	120 00	6 26	3 50		9 76
18	Albert H. Wilson	95 00	1 56	3 50		5 06
19	Gust. Holmgren	120 00	6 75	4 00		10 75
20	John Trace	120 00	486 49	4 00		490 49
	Less credit on pipe	√ 1876 25	1074 54	72 00	1146 54	
			18 80		18 80	
	TOTAL,	1876 25	1055 74	72 00		1127 74
	TOTAL 1902,	1108 85		72 00		72 00
		<u>1903.</u>		<u>1902.</u>		
	Net Earnings	748 51		1036 85		
	Per cent " on Ins. Valuation	5.2%		7.2%		
	Insurance Valuation	14400 00		14400 00		

NOTE:-

Sewer pipe returned for which repairs rented houses rec'd. credit.
2nd. Addition, \$18.80

L A K E M I N E .

REPORT OF OPERATING AND MAINTENANCE OF ELECTRIC HAULAGE PLANT

FOR THE YEAR ENDING NOVEMBER 30TH., 1903.

OPERATING	LABOR		SUPPLIES		TOTAL		COST PR. CAR	
							1903	1902
Motor & Brakemen	9498	65	257	38	9756	03	.058	.055
Chutemen	8103	84	513	87	8617	71	.052	.070
Oiling & Repairing Cars	631	50	364	38	995	88	.006	.005
Propn. of Engine House Expense	1719	44	4170	45	5889	89	.035	.035
<u>TOTAL</u>	19953	43	5306	08	25259	51	.151	.165
Cost per car 1903		119		03		151		
Cost per car 1902		135		030		165		
<u>DIVIDED AS FOLLOWS</u>								
1749 Cars filling rock	209	37	55	51	264	88	.151	.165
9285 " Trammig "	1107	65	295	73	1403	38	.151	.164
152671 " " Ore	18196	10	4836	41	23032	51	.151	.165
3697 " " Timber	440	31	118	43	558	74	.151	.166
167402 " Total 1903	19953	43	5306	08	25259	51	.151	.165
167305 " " 1902	22560	94	5101	03	27661	97	.165	.196
<u>FILLING ROCK 1749 CARS</u>								
Propn. of Motor Expense	209	37	55	51	264	88	.151	.163
Expense of Putting Away	1147	70	35	32	1183	02	.676	.726
<u>TOTAL</u>	1357	07	90	83	1447	90	.827	.889
Trammig Rock 9285 Cars	1107	65	295	73	1403	38	.151	.164
<u>TRAMMING ORE 474171 TONS</u>								
Proportion of Motor Expense	18196	10	4836	41	23032	51	<u>Per</u> .049	<u>Ton</u> .054
Trammig & Skip Tending	5760	81	188	33	5949	14	.012	.009
<u>TOTAL</u>	23956	91	5024	74	28981	65	.061	.063
Total Tonnage 476821 (1)								
<u>TRAMMING TIMBER 3697 CARS</u>								
Propn. of Motor Expense	440	31	118	43	558	74	<u>Per</u> .151	<u>Car</u> .165
<u>GRAND TOTAL</u>	26861	94	5529	73	32391	67	.193	.206
<u>MAINTENANCE OF PLANT</u>								
Electric Engine	98	35	39	40	127	75	.001	.001
Motors	2321	50	2768	40	5089	90	.030	.028
Wiring	214	05	308	73	522	78	.003	.002
Main Line Tracks & Cars	1763	30	1522	06	3285	36	.020	.024
TOTAL MAINTENANCE COST	4397	20	4628	59	9025	79	.054	.055
TOTAL OPERATING COST	19953	43	5306	08	25259	51	.151	.165
<u>GRAND TOTAL</u>	24350	63	9934	67	34285	30	.205	.220
Cost Pr. Car Exclusive of 3rd. Level	146			050	205			
Cost Pr. Car For 1902	167			053	220			
Incr. 1903 Exclusive of 3rd Level				006				
Decr. 1903 " " " "	021				015			

(1) Includes 2650 Tons Stock Pile Overrun.

THE CLEVELAND IRON MINING COMPANY

STATEMENT SHOWING CHARGES TO DWELLINGS NOT RENTED DURING YEAR
ENDING NOVEMBER 30TH., 1903.

<u>PRESIDENT'S COTTAGE</u>				
New Addition	3387	35	✓	
Billiard Room	252	50		
Mantle	59	07		
Cement Walks	388	55	✓	
Steam Heating Plant	740	00	✓	
Electric Lights	49	65		
Repairing Furniture	42	35		
Repairing Furnace Boiler	7	49		
Making Ribbit Cage & Feed	25	73		
Repairs to Doors & Windows	13	30		
Repairing Sled	5	68		
Repairing Floors	12	08		
Water Works & Sewer	28	57		
Repairs to Roof	8	70		
Painting, Papering & Kalsomining	94	17		
Benches & Shelves	14	96		
Gardening	5	00		
Making Coal Bin	11	40		
Repairs to Barn	5	31		
TOTAL				5151 86
<u>AGENT'S RESIDENCE</u>				
Repairs to Barn	30	27		
Repairs to Root House	105	05		
Water Works & Sewer	36	36		
Doors & Windows	67	18		
Electric Light & Bells	10	50		
Repairing Furniture	23	63		
Gardening	276	90		
Repairing Stove & Heater	9	60		
Filling Ice House	21	50		
Painting & Plastering	14	57		
Repairs to Porch	26	91		
Repairs to Floor	10	05		
Repairs to Clothes Reel	2	83		
TOTAL				635 35
TOTAL DWELLINGS NOT RENTED				5787 21

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THE CLEVELAND IRON MINING COMPANY

STATEMENT OF LAND IMPROVEMENT, FOR YEAR ENDING NOV., 30TH, 1903.

<u>W.G.Mathers Grounds at Cottage.</u>				
New Road, Grading etc.	4506 93	✓		
Trees & Shrubs	538 79	✓		
Bowling Green	445 24	✓		
Fish Pond	262 48	✓		
Plants	101 25			
Vegetable Garden	75 15			
Seeds for Drive	44 54			
Grounds	49 09			
Cleaning	5 65			
Fences	14 56			
Cutting Wood	3 12			
TOTAL			6126 80	
<u>M.M.Duncan's Grounds at Residence.</u>				
Ploughing Road	4 00			
Sodding Lawn	1 00			
Guards for Trees	4 17			
Plants	11 54			
Trees & Vines	217 03	✓		
TOTAL			237 74	
<u>General Work Location etc.</u>				
Repairing Fences	56 89			
Office Lawn	3 45			
C.D.Cole, Pictures (For Prize Awards)	94 55			
Prize Awards	3 00			
Planting Trees, Division St.	101 03			
Grounds	4 97			
Painting Fence	30 00			
TOTAL			293 89	
TOTAL LAND IMPROVEMENT			6658 43	

THE CLEVELAND IRON MINING COMPANY

SUMMARY OF DEPRECIATION LAKE MINE

New No.4 Shaft			91091	90
New Underground Cars			2137	48
Lake Ang.Drainage,Repairing Launderers		1864	33	
Cur.Pumpg.Exp.from LSICO.Plant No.2		1801	35	
Operating Plant No.1 East End		3870	38	
Total Account Lake Mine			7536	06
Chgd.LSICO.their Propn.of Cur.Pumpg.Exp.		442	17	
Chgd.LSICO.their Propn.of Repairing Launderers		621	44	
Total Lake Angeline Drainage Expense		8599	67	
Total Lake as per Statement			100765	44
<u>DIVIDED AS FOLLOWS</u>				
Depreciation as per Cost Sheet			93229	38
Credit by Unclaimed Wages	37	73		
Credit by Inventory Appreciation	103	23		
Total Credit			140	96
Net Depreciation as per Cost Sheet			93088	42
Mining Expense Lake Angeline Drainage			7536	06
Adding Credit to Balance above Figures			140	96
TOTAL			100765	44

THE CLEVELAND IRON MINING COMPANY

DETAIL OF ACCOUNTS RECEIVABLE, NOVEMBER 30TH., 1903.

REPRESENTATIVE ACCOUNTS RECEIVABLE

Unearned Premiums, Boiler Insurance	103.99	
Unearned Premiums, Fire Insurance	225.02	
	TOTAL	329.01

ACCOUNTS RECEIVABLE

Lake Superior Iron Company	1619.91	
Paymasters Account	13.47	
F.B.Ross, Clerk	500.00	
Revenue Tax	11.76	
Iron Cliffs Company	1065.42	
Cleveland-Cliffs Iron Co.	2532.16	
L. S. & I. Ry. Co.	6412.01	
Advance Paymaster on Coal	7777.48	
Standard Oil Co.	22.85	
J.H.Quinn	30.00	
D.J.Ryan	23.00	
Iron Cliffs Co., Negaunee	4.94	
Rev. Atwell	40.00	
Sullivan Machinery Co.	150.00	
Pickands, Mather & Co.	123.00	
Wisconsin Bridge & Iron Co.	2.17	
Dalton Packing Co.	34.31	
August Bean	92.29	
Geo.J.Maas	37.65	
Ishpeming Mining Co.	20.70	
Pioneer Iron Co.	5.65	
A.Henrickson	6.00	
Thompson & Hodgkins	205.25	
South Arm Lumber Co.	65.89	
E.J.Eddy	5.33	
Ward, Williams & Cruse Co.	286.20	
Murphy Iron Works	3.73	
Lake Superior Steam Heating Co.	3.42	
Western Passenger Association	10.00	
Employees Hard Coal	274.19	
Hoopes & Townsend	68.85	
J.Bishop & Co.	3.99	
	TOTAL	21451.62
	GRAND TOTAL	21780.63

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REPRESENTATIVE ACCOUNTS PAYABLE

VOU.
NO.

Hard Ore Benefit	3868.88
Hard Ore Suspense	3868.88
Lake Benefit	5573.92
Lake Suspense	5773.92
General Benefit	895.77
General Suspense	885.97
Hard Ore Brass Checks	119.00
Lake Brass Checks	427.25

TOTAL

21413.59

ACCOUNTS PAYABLE

Accrued Taxes Unpaid	36300.72
Pay Rolls	29704.19
Bills Audited	5014.71
10686 Clev-Cliffs Iron Co. Land Dept.	116.50
10687 M.M.Duncan, Agent	117.50
10688 C. & N. W. Ry. Co.	25.83
10689 L. S. & I. Ry. Co.	19.20
10691 Postal Telegraph Cable Co.	.89
10692 American Express Co.	19.30
10693 Western Union Telegraph Co.	28.21
10694 D. S. S. & A. Ry. Co.	208.37
10695 Western Express Co.	1.80
10696 L. S. & I. Ry. Co.	24.00
10724 Michigan Telephone Co.	13.40
10725 The W. Bingham Co.	42.38
10726 H. B. Lehman	15.78
10727 Ed. S. Unmuth	6.00
10728 I. E. Swift Co.	30.80
10729 Mrs. Celie Northy	2.15
10730 L. S. & I. Ry. Co.	2413.68
10731 J. C. Altschwager	1.35
10732 Geo. A. Newett	36.11
10733 Negaunee Nursery & Greenhouses	13.95
10734 Ishpeming City Highway	3.00
10735 Trembath Brothers	20.45
10736 H. F. Heyn	12.35
10737 Ole Oleson	28.21
10738 Fred J. Eggan	.85
10739 L. S. & I. Ry. Co.	32.46
10740 Ishpeming Steam Laundry	1.39
10741 August Jacob	4.85
10742 Fred P. Tillson	3.75
10743 Henry Harwood	.25
10744 L. S. & I. Ry. Co.	18.52
10745 Mining Journal Co. Ltd.	8.25
10746 The Stenglein Bindery	24.05
10747 Swanson & Pearson	1.00
10748 Ishpeming City Water Works	.92
10749 Gill Hodgkins	2.00
10750 Pioneer Iron Co.	21.12
10751 Hager Bros Co.	8.50
10753 Wm. T. Cole	16.50
10754 John E. Lindbaum	18.25
10755 Wm. Paradise	28.97
10756 J. F. Crooks,	34.65
10757 Mrs. M. McGrath	3.27

Forward

71019 62 21413 59

A C C O U N T S P A Y A B L E

(Continued)

71019 62 21413 59

10758	James Andrews	1.00	
10759	Patrick Lyons	31.50	
10760	W.J.Ely	3.18	
10762	B.A.Stevens	5.90	
10763	Machinists Supply Co.	21.84	
10764	The Wallaeger Mfg.Co.	.75	
10765	W.&.L.E.Gurley	2.65	
10766	Keuffel & Esser	3.70	
10767	J.Underwood & Co.	1.00	
10768	Alphons Custodis Chimney Const.Co.	29.18	
10769	Sullivan Machinery Co.	38.72	
10770	Illinois Steel Co.	14.10	
10771	Fairbanks Morse & Co.	1.11	
10772	The W.Bingham Co.	12.60	
10773	The Falk Company,	32.25	
10774	The Garfield	21.52	
10775	Felch & Vandevener	593.00	
10776	A.B.Minor, Cashier	29.00	
10777	Iron Cliffs Company	60.50	
10778	Cleveland-Cliffs Iron Co.	10.00	
10779	Iron Cliffs Company	476.54	
10780	Cleveland-Cliffs Iron Co.	134.96	
10781	Clev-Cliffs Iron Co. Land Dept.	34.00	
10782	Ishpeming City Water Works	24.25	
	Lake Superior Iron Co.		1481.66
	Estate of S.Lapala		419.50
	Consolidated Fuel & Lbr.Co.,		11.46
	C. & N. W. Ry. Co.		26.16
			1481.66
			419.50
			11.46
			26.16
	TOTAL		72958 40
	GRAND TOTAL		94371 99

THE CLEVELAND IRON MINING COMPANY

SUMMARY OF EXPENSE AT PRESIDENT'S COTTAGE & AGENT'S RESIDENCE
YEAR ENDING NOV. 30TH, 1903

<u>COTTAGE.</u>					
Repairs and Addition to Building	5151	86			
Improvement to Grounds	6126	80			
	TOTAL			11278	66
<u>SUNDRIES</u>					
Lighting 12 Months @ 3.00	36	00			
Choreman	475	20			
Ice for Season	30	00			
Telephone (County)	15	00			
	TOTAL SUNDRIES			556	20
	TOTAL COTTAGE & GROUNDS			11834	86
<u>AGENT'S RESIDENCE</u>					
Repairs etc. on Building	635	35			
Grounds etc. as per Land Improvement	237	74			
	TOTAL RESIDENCE & GROUNDS			873	09

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THE CLEVELAND IRON MINING COMPANY

STATEMENT OF CHARGES TO "HARD ORE LOCATION" ACCOUNT, YEAR ENDING NOV. 30, 1903.

	LABOR		SUPPLIES		TOTAL		TOTAL PREV. YEAR	
<u>GENERAL EXPENSE</u>								
Fire Insurance			141	52	141	52	142	41
Taxes			9912	27	9912	27	7641	65
<u>MISCELLANEOUS</u>								
Surface "Cleaning"	232	77	155	30	388	07	194	75
Shop Buildings	48	16	32	35	80	51	52	59
Shop Machinery, (See Detail)	194	58	258	14	452	72	2152	63
<u>TOTAL</u>	475	51	10499	58	10975	09	10184	03
<u>DETAIL OF SHOP MACHINERY EXPENSE</u>								
1 8" Cone End Riveter					130	70		
Installing Large Lathe					81	75		
Installing Shop Engine					199	52		
Miscellaneous Tools					40	75		
<u>TOTAL</u>					452	72		

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CLEVELAND IRON MINING COMPANY

LABORATORY STATEMENT, YEAR ENDING NOVEMBER 30TH. 1903.

COST FOR LABOR & SUPPLIES; NUMBER & COST PER DETERMINATION.

		Labor		Supplies		Total		No.Dets.	Cost Per Det.
December	1902	252	50	188	28	440	78	2970	.1476
January	1903	254	00	119	01	373	01	3359	.1110
February	"	251	00	39	12	211	88	2915	.0727
March	"	234	00	96	85	330	85	3307	.1000
April	"	251	00	26	30	277	30	2764	.10032
May	"	272	50	66	96	339	46	3306	.10270
June	"	251	00	218	57	469	57	3194	.14705
July	"	254	00	25	72	279	72	3530	.07924
August	"	280	25	73	59	353	84	4084	.08664
September	"	301	00	95	94	396	94	4180	.095
October	"	302	25	22	95	325	20	4237	.07675
November	"	298	75	98	64	397	39	3673	.1082
TOTAL		3202	25	993	69	4195	94	41519	.1010
TOTAL 1902		2830	95	967	76	3798	71	39090	.0972

THE WORK DONE FOR THE VARIOUS MINES AND COST FOR DETERMINATION IS AS FOLLOWS:

	No.Dets.	Avg. Cost Per Deter.	Amount.	
Hard Ore	1693	.0992	168	04
Lake	16167	.1015	1641	42
Cliffs Shaft	4697	.1018	478	02
Salisbury	13812	.1010	1395	65
Tilden	9	.1110	1	00
Ogden	32	.0956	3	06
Foster	4	.1025		41
Austin	187	.0973	18	19
Swanzy Exploration	1498	.1059	158	58
Ashland	160	.1083	17	32
Barasa	153	.1040	15	92
Volunteer	41	.1261	5	17
Michigamme	9	.1110	1	00
Mesaba Exploration	13	.1069	1	39
Lucy	816	.0970	79	16
Negaunee	2007	.0930	186	59
Sec. 13 Exploration	6	.1083		65
Special	215	.1134	24	37
TOTAL 1903	41519	.1010	4195	94
" 1902	39090	.0972	3798	71

CLEVELAND IRON MINING COMPANY

RECORD OF COST OF WORK AT THE HARD ORE SHOPS FOR THE YEAR
ENDING NOVEMBER 30TH.1903.

	MACHINE SHOP		BLACKSMITH SHOP		CARPENTER SHOP	
	1903	1902	1903	1902	1903	1902
Average No. of Men	13	10	7	6	3	2
Total No. hrs. worked	40168.5	30789	23040	18119.5	9482.5	6516.5
Hrs. on Shop Tools	411	708.5	165.5	1602	102	456
Hrs. for various persons- & Mines.	275	676	92	99	13.5	11.5
Hr. on Mine Accts. C.I.M. Co	39165.5	29404.5	21586.5	16418.5	9067.5	6049
TOTAL cost per hour	.2875	.301	.2325	.234	.2501	.261
Cost pr. hr. on Shop Tools	.2875	.301	.2325	.234	.2501	.261
" " " Various Accts.	.2905	.306	.2342	.239	.2528	.267
" " " Mine Accts.	.2901	.306	.2340	.239	.2522	.267
Total Labor Cost	9309.61	7240.07	4593.80	3689.94	2103.60	1475.64
Cost per hour	.2318	.235	.1994	.203	.2218	.226
Total Supply Cost	2235.34	2053.26	763.39	562.52	267.49	228.70
Cost per Hour	.0557	.066	.0331	.031	.0283	.035
Total Labor & Supply Cost	11544.95	9293.33	5357.19	4252.46	2371.09	1704.34
Profit on work done for Various Persons & Mines other than C.I.M. Co.	67.79	125.44	10.72		1.53	
Average charge pr. hr. to Various persons & Mines	.536	.581	.3495	.445	.3963	.552
Profit pr. hr. Various Persons & Mines	.2465	.275	.1165	.206	.1133	.285
SUPPLIES USED AS FOLLOWS:						
General Supplies	246.69	209.47	459.91	308.37	38.06	25.43
Iron & Steel	26.71	78.07	16.25	14.58	.75	.25
Oil, Grease & Candles	183.21	91.78	3.18	6.64	5.35	1.72
Machinery Supplies	38.47	46.88	57.83	5.96	6.96	.08
Building Material	3.72	1.03	.25	.93		
Fuel	1695.94	1589.25	219.19	15.58) 198.84)	212.41	198.82
Sundries	40.60	36.78	6.78	11.62) 3.96)	3.96	2.40
TOTAL	2235.34	2053.26	763.39	562.52	267.49	228.70

CLEVELAND IRON MINING COMPANY

HARD ORE MINE

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

	Hours Delay	Tons Lost	Percent of Time Lost	
			1903	1902
Fatal Accidents	27	450	.075	
Skips, Skip Roads & Bell Lines	32	330	.088	.123
Hoisting Machinery	2	20	.006	.042
Top Tram Engines & Cars	2	20	.006	.012
Miscellaneous	19	360	.052	.000
TOTAL	82	1180	.227	.177
Holidays	280	3340	.773	.823
TOTAL INCLUDING HOLIDAYS	362	4520	1.000	1.000
Number Days 20 hours per day	18			
Actual Product for year		70782		
Average Product per day for yr.		239		
Number of Full Days worked for yr.		295		
Number of Days Idle		18		
Lost Produce (Exc.Holidays.)		1180		
FIXED CHARGES				
Accounts not effected when Mines are Idle		Tons	Cost	Amount
General Expense (Except Analysis & Relief Fund.)			.049	3496 59
Taxes			.050	3539 10
Maintenance			.065	4556 20
Air Pipes			.005	385 84
Pumping			.094	6654 52
Exploring			.029	2022 04
Mining Captain			.021	1500 00
Central Office			.025	1800 00
Depreciation			.067	4761 70
TOTAL			.405	28715 99
Total Cost on Stockpile for yr. (Actual) --		70782	1.380	97726 95
Less Fixed Charges, cost per Ton			.405	
Cost of Lost Product		1180	.975	1150 50
Possible Produce & Cost		71962	1.374	98877 45
Loss or the difference between Actual & Possible Cost & the Amt.		71962	.006	431 77
Ditto 1902		76704	.003	230 11

CLEVELAND IRON MINING COMPANY

L A K E M I N E

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

	Hours Delay	Tons Lost	Percent of Time Lost	
			1903	1902
Fatal Accidents	80	6000	.120	.055
Skips, Skip Roads & Bell Line	79	5400	.119	.130
Hoisting Machinery				
Motors & Cars and Tracks & Cars	51	3400	.077	.062
Shaft and Shaft House Repairs	5	230	.008	.034
Top Tram Engine & Cars	3	200	.004	.005
Caves (Launder)	105	7000	.158	.046
Fire in Mine and Plant				.069
Miscellaneous	3	200	.004	.010
TOTAL	326	22430	.490	.411
Holidays	340	22700	.510	.589
TOTAL INCLUDING HOLIDAYS	666	45130	1.000	1.000
Number Days- 24 Hrs. per Day (20 hrs. after Oct. 1st.)	28			
Actual Product for Year		476821		
Average Product per day for year		1622		
Number of full days worked for yr.		290		
Number of Days Idle		28		
Lost Product (Excluding Holidays)		22430		
FIXED CHARGES				
Accounts not effected when Mines are idle.		Tons	Cost	Amount.
General Expense (Except Analysis & Relief Fund.)			.009	4154 73
Taxes			.045	21554 32
Maintenance			.041	19551 03
Air Pipes			.002	856 38
Pumping			.017	8308 84
Lake Angeline Pumping Expense			.016	7536 06
Mining Captain			.005	2500 00
Exploring			.003	1398 54
Cave In			.000	153 54
Central Office			.031	14902 31
Depreciation			.195	93088 42
TOTAL			.364	174004 17
Total Cost on Stock-pile for yr. (Actual)		476821	1.103	526153 44
Less fixed charges, cost per ton			.364	
Cost of Lost Product		22430	.739	16575 77
Possible Product & Cost		499251	1.087	542729 21
Loss or the difference between Actual & Possible Cost and the Amount		499251	.016	7988 02
Ditto 1902		490831	.005	2454 16
Ditto 1901		495083	.014	6931 16

STATEMENT OF SCOTCH ORE FOR YEAR ENDING NOVEMBER 30, 1903.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1, 1902	86445	
Produced during year	<u>70782</u>	
Total,		<u>157227</u>

SHIPPED

Cleveland

29400

Scotch Ore transferred to other ores.

May 7	PONTIAC	Lump Cliffs Shaft	1349
14	CADILLAC	"	418
25	CHOCTAW	"	1949
June 3	PONTIAC	"	139
11	PONTIAC	"	245
17	VENEZUELA	"	1743
22	Choctaw	"	276
July 1	CARTAGENA	"	833
5	CADILLAC	"	1038
9	CHOCTAW	"	1300
18	Gladstone	"	1158
14	PONTIAC	"	410
22	PONTIAC	"	203
27	CHOCTAW	"	926
Aug 4	ANDASTE	"	1404
7	P. J. RALPH	"	729
8	IRON QUEEN	"	1102
13	NICARAGUA	"	1286
17	CHATTANOOGA	"	397
22	J.H. DEVEREAUX	"	1016
Sept 4	BERMUDA	"	836
14	A. COBB	"	973
22	CHATTANOOGA	"	486
29	RAPPAHANNOCK	"	1604
Oct 12	BERMUDA	"	836
16	NICARAGUA	"	1224
19	PIONEER	"	141
28	CHOCTAW	"	1479
Nov 3	PIONEER	"	903
14	FRONTENAC	"	1152
			<hr/>
	Total shipped as Lump Cliffs Shaft,		27555
			<hr/>
	Forward,		56955

STATEMENT OF SCOTCH ORE - Continued.

			Tons	Tons
Bro't forward,				56955
May	7	FRONTENAC	Crushed Cliffs Shaft	160
	16	Andaste	"	483
	20	STRATHCONA	"	328
	25	ANDASTE	"	636
June	1	ANDASTE	"	95
	16	JOHN OWEN	"	834
	19	FRONTENAC	"	1157
July	9	CHATTANOOGA	"	1736
	13	RAPPAHANNOCK	"	966
	14	PARKS FOSTER	"	315
	20	CHOCTAW	"	513
	27	PRETORIA	"	1067
Aug	3	W. D. REES	"	1832
Sept	1	J. J. ALBRIGHT	"	2059
	8	SINOLOA	"	453
	30	MOSES TAYLOR	"	941
OCT	1	INDIA	"	102
	14	SCRANTON	"	640
	20	ANGELINA	"	352
Nov	9	P. P. MILLER	"	627
	26	SCRANTON	"	190
Total shipped as crushed Cliffs Shaft,				15486
In stock at Mine Nov.30, 1903,				84786
Total,				<u>157227</u>

STATEMENT OF LAKE BESSEMER ORE FOR YEAR ENDING NOVEMBER 30, 1903.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1, 1902	0	
Produced during year		150607
 <u>Other Ores Transferred to Lake Bessemer.</u>		
Salisbury Bessemer	60417	
Negaunee Bessemer	10909	
Alford	<u>51312</u>	
Total other ores,		<u>122638</u>
Total,		<u><u>273245</u></u>

SHIPPED:

CARP FURNACE	1456	
LORAIN	6969	
CLEVELAND	50952	
FAIRPORT	16754	
ASHTABULA	114690	
BUFFALO	<u>77773</u>	
Total shipped,		268594
 In stock at Mine November 30, 1903		4651
Total,		<u><u>273245</u></u>

STATEMENT OF LAKE ORE FOR YEAR ENDING NOVEMBER 30, 1903.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine & PresqueIsle Dec. 1, 1902	151223	
Produced during year,	<u>317472</u>	
Total,		<u>468695</u>

SHIPPED:

PIONEER NO.1 FURNACE	47656	
CARP FURNACE	28089	
PIONEER NO.2 FURNACE	26937	
MANISTIQUE FURNACE	13793	
NEWBERRY FURNACE	17234	
ANTRIM IRON CO.	26437	
ELK RAPIDS IRON CO.	19905	
SPRING LAKE IRON CO.	4905	
TOLEDO	63313	
CLEVELAND	13255	
ASHTABULA	20605	
ERIE	2680	
BUFFALO	2954	
DESERONTO	<u>3994</u>	
Total,		301757

LAKE ORE TRANSFERRED TO OTHER ORES.

Nov. 2 Sacramento	Bedford	59
In stock at Mine & PresqueIsle Nov. 30, 1903		<u>166879</u>
Total,		<u>468695</u>

STATEMENT OF LAKE BESSEMER SILICA ORE FOR YEAR ENDING NOV. 30, 1903.

	<u>Tons</u>	<u>Tons</u>
Produced during year		<u>8742</u>
SHIPPED:		
PIONEER NO.1 FURNACE	3620	
CARP FURNACE	517	
PIONEER NO.2 FURNACE	1079	
ANTRIM IRON CO.	<u>3526</u>	
Total,		<u>8742</u>

CLEVELAND IRON MINING CO. AND LAKE SUPERIOR IRON CO.

STATEMENT of EXPENSE of PUMPING at LAKE ANGELINE from JANUARY 1st. 1903
To DECEMBER 31st., 1903.

Actual Cost of Pumping Expense, Repairs
etc. as per copy of itemized statements
hereto attached 6012.59

Less material returned as per Credit -
Invoice attached 133.40

Net Total 5879.19

Figured on Basis of Tons Ore Mined during
Year as follows:

C.I.M.Co. prop.	459650 tons	70.62%	4151.88	
L.S.I.Co. "	191213 "	29.38%	1727.31	
	650863	100 %	5879.19	5879.19

Average date of Payment made by the
Cleveland Iron Mining Co. Aug., 5th.

\$5879.19 at 6% per annum for 5 mos. 25 ds. 171.48

L.S.I.Co.'s prop. of Interest -	29.38%	50.38
L.S.I.Co.'s " " Expense -	29.38%	1727.31

Total Due from Lake Superior Iron Co. \$1777.69

96

Statement showing the amount of iron ore mined from under the bed of Lake Angeline, as per the map attached, by the Cleveland Iron Mining Co. from January 1st 1903, to December 31st. 1903. 459650 tons

Four hundred fifty nine thousand (459) hundred and fifty tons

Cleveland Iron Mining Company.

(Signed) [Signature] Agent.

State of Michigan)
)SS.
County of Marquette)

On this 11th day of February 1904 personally appeared before me, W M Duncan, and stated that he is the Agent for the Cleveland Iron Mining Company, and that the above statement is true and correct to the best of his knowledge and belief.

(Signed) Chas J Shaddick
Notary Public.

Statement showing the amount of iron mined from under the bed of Lake Angeline, as per the map attached, by the Lake Superior Iron Company from January 1st 1903, to December 31st. 1903. One Hundred
Ninety-one Thousand Two Hundred Thirteen Tons

LAKE SUPERIOR IRON COMPANY.

(Signed) W. Johnston
Agent.

STATE OF MICHIGAN)
) SS.
COUNTY OF MARQUETTE)

On this Seventh day of February
1904, personally appeared before me W. H. Johnston and stated that he is the Agent of the Lake Superior Iron Company, and that the above statement is true and correct to the best of his knowledge and belief.

(Signed) W. H. Johnston
Notary Public.

MAP OF LAKE ANGELINE
SHOWING EXTENT BEFORE BEING DRAINED

For use in determining the amount of ore taken out from the land so originally covered by said lake, owned respectively by the Lake Superior Iron Company and the Cleveland Iron Mining Company.



CLEVELAND IRON MINING CO. AND LAKE SUPERIOR IRON CO.

ACCOUNT LAKE ANCELINE DRAINAGE, PUMPING EXPENSE.

1903.

January 31st.	As per copy attached	136.54
February 28th.	"	347.29
March 31st.	"	202.31
April 30th.	"	152.89
May 31st.	"	209.87
June 30th.	"	146.33
July 31st.	"	147.59
August 31st.	"	229.79
September 30th.	"	1011.19
October 31st.	"	917.15
November 30th.	"	167.80
" "	"	1952.50
December 31st.	"	391.34

TOTAL \$ 6012.59

CREDIT as per Invoice attached 153.40

Net Total, \$ 5879.19

DISCHARGE OF CONDENSER.

1	6" to 5" Bushing	1.25	1.25	
1	1" Crane Globe Valve	1.80	1.80	
52 3/4	Ft. 10" Pipe	1.70		89.67
4	Pr. 4" Flanges	2.10	8.40	
4	4" Elbows(cast)	1.20	4.80	
1	3" Globe Valve	9.80	9.80	
2	3" Tees	1.10	2.20	
1	3" to 1 1/2" Bushing	.30	.30	
1	1 1/2" to 1 1/4" Bushing	.09	.09	
1	Steam Gauge 6" Net	1.00		1.00
1	4" to 3" Bushing	.50	.50	
7	5" cast Elbows	2.00	14.00	
2	6" to 5" Bushings	1.25	2.50	
1	5" Gate Valve	25.00	25.00	
1	6" Gate Valve	30.00	30.00	
1	3" to 1 1/4" Bushing	.30	.30	
1	5" Jenkins Valve	27.00	27.00	
1	2" Tee	.41	.41	
1	2" to 1/2" Bushing	.14	.14	
1	2" Jenkins Globe Valve	8.75	8.75	
1	1/2" " " "	1.60	1.60	
1	4" Tee	1.75	1.75	
1	4" to 2 1/2" Bushing	.50	.50	
1	2 1/2" Tee	.73	.73	
3	2 1/2" Elbows	.50	1.50	
1	2 1/2" Globe Valve J.	15.75	15.75	
1	Pr. 2 1/2" Flanges	1.25	1.25	
1	2 1/2" to 1 1/2" Bushing	.21	.21	
1	1 1/2" Globe Valve J.	5.50	5.50	
1	1 1/2" Flange	.39	.39	
Totals forward, $\frac{31}{2}$			166.42	90.67

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE DRAINAGE, MONTH JANUARY 1903

PLANT NO. 2.

<u>PUMPING EXPENSE</u>					
2	Pumpmen, 51 days at 2.05	125	05		
	1 "	2	45		
	Blacksmithshop 4 hours	2	44		
	<u>TOTAL LABOR</u>			129	94
<u>SUPPLIES</u>					
28	2 x 1/2 Bolts .02	56			
20#	30-d Nails .02-1/2	50			
4	Lbs. 60-d Nails .02-1/2	10			
6	Gal. Cylinder Oil .29	1	76		
4	" Kerosene oil .15 "	60			
5	Lbs. Square Rubber Packing .45	2	35		
13	" Colored waste .05	65			
	Shop Labor & Teaming	18			
	<u>TOTAL SUPPLIES</u>			6	60
	<u>TOTAL PUMPING EXPENSE FOR MONTH</u>				136

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE LAKE ANGELINE DRAINAGE, MONTH OF FEBRUARY, 1903.

<u>PUMPING EXPENSE</u>							
2	Pumpmen.	56 days at	2 05	114	80		
<u>TOTAL LABOR</u>						114	80
<u>SUPPLIES</u>							
10	Lbs. White Waste		.08		80		
6	Gal. Cylinder Oil		.29	1	74		
1	" Red Oil				15		
3	" Kerosene Oil		.15		45		
<u>TOTAL SUPPLIES</u>						3	14
<u>TOTAL CURRENT MONTH</u>							117 94
<u>REPAIRING LAUNDRY</u>							
	Carpenter	9-1/2 days at	2.30	21	85		
	"	11-1/2 " "	2.10	24	15		
	Foreman	1-1/2 " "	2.05	3	07		
	Timbermen	10-1/3 " "	1.80	18	90		
	Laborers	44-1/2 " "	1.65	73	39		
	Blacksmith	10 hours		6	32		
	Team	6		2	03		
<u>TOTAL LABOR</u>						149	71
<u>S U P P L I E S</u>							
2160	Ft. 12 x 12 - 18		22.25	48	06		
864	" 12 x 12 - 12		19.25	16	63		
640	" 2 x 12 - 16		11.50	7	36		
373	" 4 x 10 - 14		17 50 Hem.	6	53		
	Shop Labor & Teaming			1	06		
<u>TOTAL SUPPLIES</u>						79	64
<u>TOTAL REPAIRING LAUNDRY</u>							239 35
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>							347 29

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE DRAINAGE MONTH MARCH, 1903.

<u>PUMPING EXPENSE</u>							
2	Pumpmen	63 Days	at 2.05	129	15		
1	Machinist	18-1/4 "	" " 2.45	44	71		
1	Pipeman	1	" "	2	10		
1	Laborer	2	" "	3	30		
<u>TOTAL LABOR</u>						179	26
<u>S U P P L I E S</u>							
4	Lbs. C.&J. Valves		.95	3	80		
1	2" Bushing				06		
1	1" Angle Valve				54		
18	2-1/2 x 1/2 Mach. Bolts		.0125		24		
1	6" Bushing				35		
2-1/2	Lbs. Empire Packing		.28		70		
2	" Square Flax Packg.		.25		50		
1	15" Wrench				75		
36	Gal. Cylinder Oil		.29	10	44		
8	Lbs. Dredge Oil		.09		72		
1	2" Tee				08		
1	1" Plug				04		
2	1" Globe Valves		54	1	08		
12	Lbs. 1/4" Mach. Steel		2.30		28		
3	" Iron		2.55		08		
2	" Square Rubber		.45		90		
7	" Sheet Rubber		.15	1	05		
18	" Colored Waste		.06	1	08		
2	Gal. Red Oil		.15		30		
Shop Labor & Teaming					06		
<u>TOTAL SUPPLIES</u>						23	05
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>							202 31

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE, DRAINAGE, MONTH APRIL 1903.

<u>PUMPING EXPENSE</u>							
2	Pumpmen	60	days at 2.05	123	00		
1	Machinists	4	" 2.45	9	80		
1	Pipeman	2	" 2.10	4	20		
1	Laborer	1	"	1	65		
<u>TOTAL LABOR</u>						138	65
<u>S U P P L I E S</u>							
1	2" Tee			12			
4	Lbs. C&J Valves		.90	3	60		
1	Broom			35			
26	Gals. Cyl. Oil		.29	7	54		
4	" Kerosene		.15	60			
2	2" Elbows		.06	12			
1	Spring			25			
3	Lbs. 1/2" Square Packing		.43	1	26		
1	Gal. Red Oil			15			
Shop Labor & Teaming						25	
<u>TOTAL SUPPLIES</u>						14	24
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>							152 89

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE, MONTH OF MAY., 1903..

<u>PUMPING EXPENSE</u>					
2	Pumpmen 60 days at 2.05		123	00	
1	Machinists 8-1/2 " 2.45		20	82	
1	Pipeman 12 " 2.10		25	20	
	Laborers 18-1/2 " 1.65		30	52	
<u>TOTAL LABOR</u>					199 54
<u>S U P P L I E S</u>					
28	Gal. Cylinder Oil at .29		8	12	
2	Gal. Kerosene " .15		30		
3	Lbs. Asbestos Wicking .16		48		
1	Gal. Red Oil		15		
13	Lbs. Colored Waste .06		78		
1	1" Globe Valve		50		
<u>TOTAL SUPPLIES</u>					10 33
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>					209 87

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGE LINE, MONTH OF JUNE, 1903

<u>PUMPING EXPENSE</u>							
2	Pumpmen,	60 days at	2.05	123	00		
1	Pipeman	2 "	2.10	4	20		
	Blksmith Shop	5 hours		3	17		
	Carpenter "	28 "		6	16		
<u>TOTAL LABOR</u>						136	53
<u>SUPPLIES</u>							
1	1-1/2" Tee				07		
6	Lbs. Square Rubber Packing	.40		2	40		
4	" " Flax "	.25		1	00		
18	Gal. Cyl. Oil	.29		5	22		
3	" Kerosene Oil	.15			45		
16	Lbs. 60d Nails	.03			48		
	Shop labor & Teaming				18		
<u>TOTAL SUPPLIES</u>						9	80
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>							146 33

CLEVELAND IRON MINING COMPANY.

STATEMENT OF EXPENSE, LAKE ANGELINE, MONTH OF JULY, 1903.

<u>PUMPING EXPENSE</u>							
2	Pumpmen,	62 Days at	2.05	127	10		
1	Pipeman,	2-1/4 "	2.10	4	72		
1	Machinist,	1-1/4 "	2.45	3	06		
1	Laborer,	2 "	1.65	3	30		
<u>TOTAL LABOR</u>						138	18
<u>SUPPLIES</u>							
5	1" Elbows		.035	18			
1	1 Qt. Can			25			
1	2" Elbow			10			
2	Lbs. Wire		.30	60			
16	" Colored Waste		.06	96			
2	" Asbestos Wicking		.16	32			
3	" Sq. Rubber Packing		.40	1	20		
18	Gal. Cylinder Oil		.29	5	22		
1	" Red Oil			13			
3	" Kerosene		.15	45			
<u>TOTAL SUPPLIES</u>						9	41
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>							147 59

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE, MONTH OF AUGUST, 1903

<u>PUMPING EXPENSE</u>							
2	Pumpmen	60	Days at 2.05	123	00		
1	Machinists	8 1/2	" 2.45	20	82		
2	Pipemen	24	" 2.10	50	40		
1	Laborer	9	" 1.65	14	85		
1	Laborer	8	" 1.45	11	60		
<u>TOTAL LABOR</u>						220	67
<u>SUPPLIES</u>							
1	1 st	Globe Valve		50			
4	2 nd	Elbows	.09	36			
2	2 nd	Flanges	.35	70			
20	4 x 5/8	Mach. Bolts		30			
24	Gals.	Cylinder Oil	.29	6	96		
2	"	Kerosine Oil	.15	30			
<u>TOTAL SUPPLIES</u>						9	12
<u>TOTAL PUMPING EXPENSE FOR MONTH</u>						229	79

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE LAKE ANGELINE, MONTH OF SEPTEMBER, 1903.

PUMPING EXPENSE				
3	Pumpmen 60 Days @ 2.05		123 00	23 96
SUPPLIES				
24	Gal. Cylinder Oil @ .29		6 96	
2	Kerosine Oil @ .15		30	
5	Sheet Rubber @ .15		75	
3	# 20d Nails @ .03		09	
2	Gal. Red Oil @ .15		30	
3	# Sq. Flax Pack @ .25		75	
17	# Colored Waste @ .05 $\frac{1}{2}$		94	
	<u>TOTAL SUPPLIES</u>			10 09
	<u>TOTAL PUMPING</u>			133 05
REPAIRING LAUNDRY				
PAY ROLL				
Machinists	27 Days @ 2.45		66 15	
Machinists	7 @ 2.40		16 80	
Carpenters	7 @ 2.30		16 10	
Carpenters	3 $\frac{1}{2}$ @ 2.15		7 53	
Pipemen	34 $\frac{3}{4}$ @ 2.10		72 97	
Carpenters	44 $\frac{1}{2}$ @ 2.10		93 45	
Foremen	2 $\frac{1}{2}$ @ 2.05		5 12	
Laborers	6 @ 2.00		12 00	
Laborers	5 @ 1.95		9 75	
Laborers	5 @ 1.80		9 00	
Laborers	5 @ 1.70		8 50	
Laborers	89 $\frac{3}{4}$ @ 1.65		148 03	
Laborers	3 $\frac{1}{4}$ @ 1.45		4 71	
Blacksmith Shop	48 Hrs.		28 44	
Teaming	44		13 46	
Machine Shop NO.	3		69	
Blacksmith Shop NO.	5		98	
Carpenter Shop NO.	23		5 13	
	<u>TOTAL LABOR</u>			592 36
SUPPLIES				
4	1 $\frac{1}{2}$ x 7 Carriage Bolts @ .02		08	
8	2 $\frac{1}{2}$ x 2 @ .01 $\frac{1}{2}$		12	
1	1" Union @		09	
1	1" Coupling @		04	
100	x 10 Machine Bolts @		3 67	
100	x 9 @		2 44	
100	x 8 @		4 32	
2	Bushings @ .03		06	
1	Globe Valve @		50	
10	Sheet Rubber @ .15		1 50	
3	Lanterns @ .45		1 35	
17	# 2 x 2 Sikes @ .03		51	
4	Handles @ .10		40	
1	Axe @		50	
6	Gal. Kerosine @ .13		78	
210	Ft. Poles @ .01		2 10	
520	Ft. @ .01		5 20	
6	Pcs. 6 x 6 - 16 Hem. 383' @ 15.95		4 50	
4	6 x 6 - 16 Nor. 256' @ 20.35		5 31	
1	1" Bushing @		03	
6	Sheet Rubber @ .13		78	
7	1/16" Rainbow Pack. @ .40		2 82	
3	Pcs. 2" Flanges @ .34		3 04	
1	4" Bushing @		14	

CLEVELAND IRON MINING COMPANY.

STATEMENT OF EXPENSE, LAKE ANGELINE MONTH OF SEPTEMBER 1903.

SHEET NO. 2.

				CARRIED FORWARD		651	48	133	08
				SUPPLIES CONT'D.					
10	1/2" x 3 1/2"	Bolts	@ 2.90		28				
1	1/2"	Washers	@		04				
1	14"	File	@		28				
1		Axe & Handle	@		65				
6	1/2"	Washers	@ .04		24				
1	12"	Elbow	@		5	40			
1	12"	Coupling	@		2	78			
6	3/8" x 1/2"	Bolts	@ .01 1/2			09			
1	1"	Globe Valve	@			50			
2	1/2"	Sq. Flax Packing	@ .22			44			
1	1/2"	Plug	@			04			
100	1/2" x 9 1/2"	Bolts	@		3	07			
100	1/2" x 8 1/2"	"	@		3	4			
6	1"	Unions	@ .09			54			
1	1 1/2"	Bushing	@			03			
2	1/2"	Flax Packing	@ .22			44			
20	1/2"	Colored Wasts	@ .05 1/2		1	10			
167	1/2"	60d Nails	@ 2.40		4	01			
1	16"	File	@			37			
1		Saw	@			75			
1		Hammer	@		1	00			
10	Gal.	Cylinder Oil	@ .25		2	30			
792	Ft.	3" Balmlock	@ 13.50		10	69			
8	Pcs.	6x8-16 Stalls 144	@ .02 1/2		3	24			
30	Ft.	1 1/2" Oak	@ 31.50			95			
		Electric Light	@		15	00			
24	1/2"	C & J Valves	@ .90			21	60		
14	1/2"	Sheet Rubber	@ .12		1	68			
541	Ft.	2 1/2" Pipe	@ 15.50		53	86			
6	Frs.	3" Flanges	@ .38		2	28			
207 1/2	Ft.	4" Pipe	@ 30.24		62	75			
3	Frs.	4" Flanges	@ .58		1	74			
16	1/2" x 3	Bolts	@ 2.75			44			
2		Balls Wicking	@			03			
77	1/2"	Tank Steel	@ 2.40		1	65			
68	1/2"	Chain	@ .04		2	72			
126	Ft.	3" Common	@ 20.00		2	62			
1	12"	Flange	@		4	32			
3	12"	Nipples	@ 1.50		3	00			
2		Single Rigs	@		4	00			
Shov		Labor & Teaming	@		7	61	226	33	
TOTAL REPAIRING LAUNDRY								878	16
TOTAL EXPENSE FOR MONTH:								1011	19

THE CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE, MONTH OF OCTOBER 1903.

PUMPING EXPENSE							
2	Pumpmen	62 Days @	2.05	127	10		
1	Laborer	4½ " @	1.65	7	42	134	52
SUPPLIES							
22	Gals. Cylinder Oil	@	.25	5	50		
2	Lbs. Flax Packing	@	.25		50		
3	" Dollar Packing	@	.75	2	25		
1	1" Union	@			09		
1	1" Valve	@			75		
20	Lbs. Cold Rolled Shaftg.	@	.03½		70		
2	6½" x ¾" Bolts	@	3.85		08		
5	Lbs. ½" Iron	@	2.75		14		
4	¾" Air Cocks	@	.11		44		
5	Gals. Kerosine	@	.15		60		
9½	Lbs. Flax	@	.22	2	16		
1	Globe	@			04		
1	¾" Plug	@			01		
12	Lbs. Brass Wire	@	.22	2	64		
8	¾" x 4" Bolts	@	.03		24		
1	Lb. 1" Steel	@			04		
2	" ½" x 2" Iron	@	2.30		05		
	Hard Ore Shop				1 00		
	117 Hrs. Labor Hard Ore			26	31		
	Hard Ore Supplies				6 22		
TOTAL SUPPLIES						49	76
TOTAL PUMPING							184 28
MOVING PUMP							
1	Machinst	16½ Days @	2.45	40	42		
2	Pipemen	32 " @	2.10	67	20		
	Hard Ore Mach. Shop	13½ Hrs. @		3	15	110	77
SUPPLIES							
501½	Ft. 4" Pipe	@	.34	170	51		
482	" 4" " @ 1.08	66½-5-10%		149	10		
158	" 5" " @ 1.45	66½-5-10%		65	62		
243	" 6" " @ 1.88	66½-5-10%		130	85		
TOTAL SUPPLIES						516	08
TOTAL MOVING PUMP							626 85
REPAIRING LAUNDRY							
	Carpenter	6 Days @	2.30	13	80		
	"	3 " @	2.10		6 30		
	"	2 " @	2.00		4 00		
	Laborers	7 " @	1.65	11	55		
	Miners	13½ " @	2.10	28	35	64	00
SUPPLIES							
175	Lbs. Iron	@	2.30	4	03		
½	Days Teaming	@	4.00		2 00		
	Lake Sup. Iron Co. Bill Labor & Teaming			35	99		
TOTAL SUPPLIES						42	02
TOTAL REPAIRING LAUNDRY							106 02
TOTAL EXPENSE FOR MONTH							917 15

THE CLEVELAND IRON WORKING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE, MONTH OF NOVEMBER 1905.

<u>PUMPING EXPENSE</u>							
2	Pumpmen	57	Days @ 2.05	116	85		
1		3	@ 2.10	6	30		
1	Pipeman	3 $\frac{1}{2}$	@ 2.10	7	34		
1	Machinist	3	@ 2.45	7	35		
	Labors	13	@ 1.65	21	45	159	89
<u>SUPPLIES</u>							
4	Gals. Cylinder Oil		@ .29	1	16		
7	Kerosene		@ .15	1	05		
<u>TOTAL SUPPLIES</u>						2	21
<u>TOTAL PUMPING</u>							161 50
<u>REPAIRING LAUNDRY</u>							
1	Carpenter	3	Days @ 2.10	6	30		
<u>TOTAL REPAIRING LAUNDRY</u>							6 30
<u>TOTAL EXPENSE MONTH</u>							167 80

CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE DRAINAGE, MONTH OF NOVEMBER, 1903.

PUMPING EXPENSE

For Coal as per agreement-

50 tons per month from Jan'y. 1st. to Nov., 30th. 1903

11 Months.

550 tons	at	3.55	<u>\$1952.50</u>
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THE CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELINE DRAINAGE, MONTH DECEMBER, 1903.

<u>PUMPING EXPENSE</u>					
3	Pumpmen	62 Days @ 2.05	127	10	127 10
<u>SUPPLIES</u>					
11	Lbs. Colored Waste	@ .055		61	
14	Lbs. Valves	@ .75	10	50	
5	Springs	@ .25	1	25	
3	Lbs. Empire Packing	@ .28		84	
4	Lbs. Rainbow Packing	@ .48	1	92	
8	Gals. Cylinder Oil	@ .29	2	32	
1	" Red Oil	@		15	
8	" Kerosene Oil	@ .15	1	20	
50	Tons Coal 1/12	@ 3.55	177	50	196 29
<u>TOTAL PUMPING EXPENSE</u>					323 39
<u>LIFTING LAUNDER - LEVELING ETC.</u>					
1	Machinist	3 Days @ 2.45	4	90	
1	Pipeman	4 " @ 2.10	8	40	
1	Carpenter	8 " @ 2.30	18	40	
3	Carpenters	4 " @ 2.10	8	40	
	Laborers	16 " @ 1.65	26	40	67 95
	Laborers	1 " @ 1.45	1	45	67 95
<u>TOTAL LIFTING & LEVELING LAUNDER</u>					67 95
<u>TOTAL DRAINAGE EXPENSE</u>					391 34

CLEVELAND IRON MINING COMPANY.

LAKE ANGELINE DRAINAGE, FOR YEAR 1903.

PUMPING EXPENSE.

CREDIT.

By 243' - 6" Pipe	1.88	less 66 1/2-5-10%	130.85
By 4 Lanterns	.45		1.80
By 1 Hand Saw			.75

TOTAL CREDIT,

133.40

CLEVELAND IRON MINING CO. AND LAKE SUPERIOR IRON CO.

STATEMENT OF EXPENSE OF ADDITIONAL APPARATUS AT LAKE ANGELINE FROM
JANUARY 1st.1903 TO DECEMBER 31st.1903.

1903.		
March 31st.	As per copy attached	85.93
April 30th.	"	795.97
May 31st.	"	99.37
	TOTAL	981.27
	CREDIT by material returned	122.87
	as per invoices attached.	
	Net Total	858.40
Figure on basis of 1/3 and 2/3		
	C.I.M.Co. prop. 2/3 -	572.27
	L.S.I.Co. " 1/3 -	286.13
	TOTAL	858.40
Average date of payment May 1st.		
858.40	at 6% per annum for 9 mos.	38.63
L.S.I.Co. prop. of Interest	1/3	12.88
L.S.I.Co. " " Expense	1/3	286.13
	TOTAL Due from Lake Spr. Iron Co.	299.01

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CLEVELAND IRON MINING COMPANY

STATEMENT OF EXPENSE, LAKE ANGELING DRAINAGE, MONTH MARCH 1903.

ADDITIONAL APPARATUS.

1 Carpenter,	5 1/2 days at	2.30	12.65	
1 "	4 1/2 " "	2.10	9.45	
Laborers,	19 " "	1.65	31.34	
Blacksmiths,	2 hrs.	.63	1.26	
Carpenter Shop	115 " "	.307	35.34	
TOTAL LABOR				73.54

SUPPLIES.

28 ⁷ / ₈ 20d Nails	.03	84		
397' 2" Norway	16.50	6.55	7.39	
TOTAL FOR MONTH,				85.93