

CLEVELAND IRON MINING CO.

F O S T E R M I N E .

Statement of Rented Houses, Showing Rent Received, Cost of Repairs, etc.
For the Year Ending November 30th, 1900.

House No.	Present Occupant	Rent Rec'd	Repairs	Insurance	Taxes	Total Expense
1	John Okerson	19.00				
2	James Norway (Vacant)					
3	Vacant					
4	John Witters	19.50				
5	Vacant					
6	Jacob Ahola	18.50				
7	Gus Hongula	16.50				
8	Philip Geaurna	22.50				
9	Chas. Cox	9.00				
10	James Johns	9.00				
11	Vacant					
12	Vacant					
13	Paul Almane	10.50				
14	Gus Okerson	4.50				
15	Vacant					
16	Vacant					
	Total	129.00		18.50		18.50
	Total 1899	235.60		18.50		18.50
		<u>1900</u>	<u>1899</u>			
	Net Earnings	110.50	217.10			
	Per Cent	4.3%	8.5%			
	Insurance Valuation	2550.00	2550.00			

CLEVELAND IRON MINING CO.

Detail of Accounts Receivable, November 30th, 1900.

Iron Cliffs Co.	2916.62	
Lake Superior & Ish. Ry. Co.	15.38	
Lake Superior Iron Co.	1628.27	
J.H. Quinn	30.00	
D.D. Ryan	23.00	
E.H. Sargent & Co.	86.45	
C.L. Anderson	4.08	
Superior Posten	100.00	
F. Braastad & Co.	1.20	
Ishpeming City	8.28	
Anthony Powder Co.	2.70	
Chicago N.W. Ry. Co.	22.69	
Standard Oil Co.	3.80	
Iron Cliffs Co. Negaunee	2.26	
Neg. & Ish. St. Ry. & Electric Co.	2.00	
I.E. Swift & Co.	280.49	
F.B. Baird	1.20	
Pitto. Lake Angeline Iron Co.	3.22	
Rev. Adwell	87.51	
Lindberg Hall	7.70	
And. Lindberg	.40	
Bristol Iron Mg. Co. "Beaufort Mine"	2.80	
Dalton Packing Co.	50.11	
F.W. Read & Co.	.55	
Western Wheel & Scraper Co.	74.62	
Peter Jacobson	1.00	
Dan Peterson	.50	
Coogan & Co.	11.10	
Sparrow K.L. Co.	1.80	
Nels Majahona	1.41	
Louis Backus	.85	
Aug. Bean	150.00	
Pioneer Iron Co.	4708.51	
Employees Coal	396.06	
	<hr/>	
Total		10626.56
Michigamme Co.		<hr/> 1.05

GRAND TOTAL

10627.61

CLEVELAND IRON MINING CO.

Detail of Accounts Payable, November 30th, 1900.

Pay Rolls

43647.16

Bills Audited:-

P.F. Pettibone & Co.	78.25
Western Union Telg. Co.	16.77
Postal Telg. Cable Co.	.54
Eugene Dietzgen & Co.	43.56
Negaunee Land Dept.	195.25
D.S.S. & A. Ry. Co.	18.73
D. Clint Prescott Co.	158.75
Grant Chemical Co.	7.12
Chicago N.W. Ry. Co.	997.00
Neg. & Ish. St. Ry. & Elec. Co.	62.05
Robert McDowell	2.50
Fred P. Tillson	7.15
Michigan Telephone Co.	7.80
Henry Harwood	1.75
Linberg & Hall	4.75
George A. Newitt	1.50
Ole Gusta	14.00
Axel Hekko	14.00
Herman Labure	29.04
R.A. Burke	50.73
Jabez Stephens	20.00
Erick Anderson	30.00
H.F. Heyn	27.95
John W. Jochim Hdw. Co. L.	13.48
Mrs. Celia Northey	4.10
Ishpeming Steam Laundry	1.86
A.W. Myers & Co.	15.00
Pat Lyons	10.50
August Jacob	14.85
F.W. Read & Co.	38.94
Martin Ramile	23.37
John Grovell	21.75
Chas. A. Eggers	22.00
Standard Oil Co.	6.36
John Danielson	4.20
C.F. Sundstrom	20.37
D. McMillan	24.20
Chicago N.W. Ry. Co.	47.88
Gutta Percha Rubber Mfg. Co.	14.85
Smith Premier Typewriter Co.	4.30
Bement Miler & Co.	10.00
Jeffrey Man'fg. Co.	4.33
Central Electric Co.	14.86
Eastern Carbon Works	7.00
Edward P. Allis CO.	2.25
Machinists Supply Co.	18.80
George E. Marshall & Co.	1.00
D. Hill	14.50
Geo. E. Holbein	3.60
The Falk Co.	10.00
Neg. & Ish. St. Ry. & Elec. Co.	14.35
Chas. Regustrom	20.87
M.M. Duncan Agent	29.87
American Express Co.	10.27

Total For'd 2208.03

Total For'd 43647.16

CLEVELAND IRON MINING COMPANY.

Amount for'd 43647.16

Bills addited(Cont.) 2208.03

Western Express Co.	14.50
F. Braastad & Co.	12.83
Wm. Rose.	2.50
Negaunee Land Dept.	30.00
Dr. H. H. Loveland.	161.00
Felch & Vandeventer	747.00
Ish. City Water Works	50.25
C. H. Moss, Cashier	42.00
Peter White & Co., Agts.	24.62
Pickands Mather & Co.	7.47
Pioneer Iron Co.	75.00
Iron Cliffs Co.	120.90
Benefit & Suspense Funds	<u>175.91</u>

Total Bills Audited. 3681.01

Taxes Unpaid 22883.28

Estate of S. Leppela 419.50

J. A. Hodgkins 1375.65

Volunteer Iron Co. 320.28

Poll Tax 11.00

Total 72337.88

Cleveland Iron Mining Co.

Dept. M. & M.

Detail of Accounts Payable

Nov. 30, 1915.

CLEVELAND IRON MINING COMPANY.

Accounts Payable (Cont.)

2202.08

Amount for, \$

4206.16

Benefit & Expense Funds	178.31
Iron Mills Co.	120.00
Phoenix Iron Co.	10.00
Pickands Method & Co.	4.47
Peter White & Co., Agents.	24.83
G. H. Ross, Engineer	43.00
Exp. City Water Works	20.32
Keaton & Anderson	44.00
H. H. Loveland	101.00
Expense Land Dept.	20.00
M. Ross	3.20
B. B. B. & Co.	12.83
System Process Co.	14.20

Total Bills Audited.

2021.01

Taxes unpaid

2202.32

Balance of S. Payable

473.20

J. V. Hodgkins

1845.82

Volunteer Iron Co.

230.32

Port Tax

11.00

Total

4206.16

C L E V E L A N D I R O N M I N I N G C O .

Record of Insurance on Dwellings and Mine Buildings for the
Year Ending November 30th, 1900.

	Amount Insurance Carried	Premiums Accruing For 1900	Fire Losses For 1900
<u>H A R D O R E .</u>			
Dwellings	29000.00	145.00	79.45
Mine Buildings	17000.00	278.20	
Total	46000.00	423.20	79.45
Lake Mine Buildings	15500.00	291.46	
Hematite Dwellings	2700.00	13.44	
<u>I M P E R I A L M I N E .</u>			
Dwellings	800.00		
Mine Buildings	5000.00		
Total	5800.00	139.02	
<u>M I C H I G A M M E M I N E .</u>			
Dwellings	10290.00		
Mine Buildings	9650.00		
Total	19940.00	149.77	
<u>W E B S T E R M I N E .</u>			
Dwellings	2700.00		
Mine Buildings	4200.00		
Total	6900.00	34.32	
Total C.I.M.Co.	96840.00	1051.21	79.45
Fire Loss sustained by the Company during year 1900 \$79.45 House occupied by Philip Pepin struck by lightning in Aug. 1900.			

~~The Cleveland Cliffs Iron Co.~~

Cleveland Iron Mining Co.

Dept. M & M

Insurance Statement

Nov. 30, 1900

Year ending November 30th, 1900.

CLEVELAND IRON MINING CO.

struck by lightning in Aug. 1900.
 Losses occurred by Phillip Robin
 during year 1900 \$43.42
 Fire loss sustained by the Company

Total C.I.M. Co. 55340.00 1021.81 43.42

Total 8200.00 24.32

Mine Buildings
 Dwellings 450.00
 5200.00

AMBERLY MINE.

Total 10340.00 143.77

Mine Buildings 2650.00
 Dwellings 10380.00

NICHICAWAS MINE.

Total 2800.00 122.05

Mine Buildings 2000.00
 Dwellings 800.00

IMPERIAL MINE.

Total 5200.00 12.44

Domestic Dwellings 5200.00 12.44
 Mine Buildings 12200.00 381.42

Total 40000.00 432.30 43.42

Total 17000.00 248.50

Total 22000.00 142.00 43.42

Carried Insurance Amount	Nov. 1900 Accounting Premiums	Nov. 1900 Losses
22000.00	142.00	43.42

THE CLEVELAND IRON MINING CO.

Summary of Depreciation Lake Angeline Drainage
Accounts During Year.

Mining Expense - Pumping Expense.		3476.64
Emergency Pumping Plant	796.83	
Pumping Expense	<u>2679.81</u>	
Regular Depreciation Acct.		1220.38
New Outlet	1220.38	
Lake Superior Iron Co.		1679.61
Pumping Expense	1376.84	
Pumping Plant East End	166.27	
New Launderers	<u>136.50</u>	
		<u> </u>
	<u>Total</u>	<u>6376.63</u>

Cleveland Iron Mining Co.

*Summary of Depreciation
Lake Angelina Drainage Accounts
in 1900.*

Summary of Depreciation Lake Angelina Drainage
Accounts During Year.

THE CLEVELAND IRON MINING CO.

New Outlets	1330.38	1330.38
Lake Superior Iron Co.	1873.61	
Pumping Expense	1276.04	
Pumping Plant East End	108.34	
New Launchers	136.20	
Total		3018.62
Exp. Depreciation Acct.	1330.38	
Pumping Expense	3073.61	
Property Pumping Plant	188.82	
Exp. Depreciation - Pumping Expense.		2418.04

C L E V E L A N D I R O N M I N I N G C O .

STATEMENT OF COST FOR ANALYSIS, INCLUDING SAMPLING AND CRUSHING

FOR EACH MINE FOR THE YEAR ENDING NOV. 30th, 1900.

HARD ORE MINE.					
Laboratory Expense	1654 Dets.		.112		185.03
For 1899	265 Dets		.1284		
LAKE MINE.					
Laboratory Expense	15024 Dets		.112	1690.13	
Sampling, Etc.	15024 "		.132	1977.49	
Total			.244		3667.62
For 1899	15967 "		.2439		
HAMATITE MINE.					
Laboratory Expense	32 Dets		.113		3.63
For 1899	113 "		.1089		
VOLUNTEER MINE.					
Laboratory Expense	3206 Dets		.157	504.41	
Sampling, Etc.	3206 "		.003	8.58	
Total			.160		512.59
For 1899	2401 "		.192		
IMPERIAL MINE.					
Laboratory Expense	1455 Dets		.25	363.75	
Sampling, Etc.	1455 "		.054	78.45	
Total			.304		441.20
For 1899	440 "		.3798		
MICHIGAMME MINE.					
Laboratory Expense	1101 Dets		.115	126.80	
Sampling, Etc.	1101 "		.019	20.60	
Total			.134		147.50
WEBSTER MINE.					
Laboratory Expense	146 Dets		.25	36.50	
Sampling, Etc.	146 "		.053	7.80	
Total			.303		44.30
<u>GRAND TOTAL</u>					5001.87

C L E V E L A N D I R O N M I N I N G C O .

Laboratory Statement for the Year Ending November 30th, 1900.

Cost for Labor and Supplies: Number & Cost per Determination.

		Labor	Supplies	Total	No. Dets	Cost Per Det.
December	1899	215.00	154.93	369.93	1891	.1956
January	1900	217.50	23.91	241.41	2315	.1043
February	"	215.43	112.75	328.18	2543	.129
March	"	218.75	156.19	374.94	2791	.1343
April	"	213.75	38.72	252.47	2127	.1187
May	"	234.00	65.13	299.13	2905	.103
June	"	232.50	141.90	374.40	2858	.131
July	"	238.37	45.14	283.51	2611	.109
August	"	235.50	129.88	365.38	3612	.101
September	"	260.55	171.53 } 28.65 }	432.08 } 28.65 }	2859	.1512
October	"	238.95	25.63	264.58	3288	.0892
November	"	227.40	108.38	335.78	2642	.1271
Total		2747.70	1202.74	3950.44	32442	.1218
Total Previous Year		2532.15	942.74	3474.89	29058	.1196

The Work Done for Various Mines and Cost for Determination is as Follows:

	No. Dets.	Avg. Cost Per Det.	Amount
Hard Ore	1654	.112	185.03
Lake Mine	15024	.112	1690.13
Hematite	32	.113	3.63
Volunteer	64	.104	6.67
Imperial	1455	.250	363.75
Michigamme	1101	.115	126.80
Webster	210	.250	52.50
Cliffs Shaft	1609	.110	176.68
Salisbury	10163	.110	1116.06
Foster	3	.120	.36
Tilden	96	.120	11.52
Tidden Diamond Drill	20	.120	2.40
Pioneer Iron Co.	744	.250	186.00
Mineral Lands (I.C.Co.)	28	.120	3.36
Section 11	5	.129	.64
Special Expense	204	.107	21.88
Abbotsford Ore	30	.101	3.03
Total	32442	.1218	3950.44
Total 1899	29058	.1196	3474.89

CLEVELAND IRON MINING CO.

Statement of Diamond Drilling at Sec. 11, for Year Ending Nov. 30, 1900.

<u>DRILLING.</u>		Days	Amount	Cost Pr.Ft.
Foreman	1 Man	45½	118.39	.240
Operating R. & H.	4 Men	191½	374.91	.763
Shop Labor and Teaming			59.52	.122
	<u>Total</u>	237	552.82	1.125
Cost to Recover Lost Bit		51	103.99	.212
	Total Labor 1900	288	656.81	1.337
	Total Labor 1899	452	937.74	1.084
<u>SUPPLIES.</u>				
Fuel and Light			108.67	.222
Oil and Waste			4.09	.008
Bits, Tools, etc.			48.70	.099
Repairs			221.03	.450
Carbon - 51 8/64 Kts. @ \$36.12			1844.75	3.758
General Expense			1.64	.003
	Total Supplies 1900		2228.88	4.540
	Total Supplies 1899		3810.81	4.405
Total Cost excluding lost bit cost			2781.70	5.665
	Total Drilling Cost	288	2885.69	5.877
	Total Drilling Cost 1899	452	4748.55	5.489
<u>SETTING UP and SINKING STAND PIPE.</u>				
Foreman, runners & helpers		111	232.01	.472
Shop Labor & Teaming			75.46	.154
Rent on Drill				
Supplies			39.82	.081
	Total 1900	111	347.29	.707
	Total 1899	118¼	382.16	.442
Total Cost Excluding Lost Bit Cost			3128.99	6.372
	Grand Total Cost 1900	399	3232.98	6.584
	Grand Total Cost 1899	570¼	5130.71	5.931
			<u>1900</u>	<u>1899</u>
Total Number Feet Drilled			491	865
Avg. Feet per Day of 10 Hrs.	115		4.27	4.80
Avg. Feet per man per day	288		1.71	1.90
Feet per Karat of Carbon			9.61	8.90
Avg. Cost for Carbon per Karat			36.12	35.65
			<u>1900</u>	<u>1899</u>
<u>STAND PIPE.</u>				
Feet of Stand Pipe Sunk			91.	104.
Cost as above			347.29	382.16
Cost per Foot			3.81	3.67
Feet Stand Pipe per man per day			.82	.88

Cleveland Iron Mining Co.

Dept. M + M

Statement of Diamond Drilling at
Section 44

Year ending Nov. 30, 1900

CLEVELAND IRON MINING CO.

Diamond Drilling at Sec. 44, Twp. 10N, Range 10W, N. 100, 1900.

Rent Stand Pipe 25
Cost for Tools
Cost on above
Rent of Stand Pipe 2000

STAND PIPE.

VAR. Cost for Gas for 100 ft. Water
Rent for Rental of Gasoline
VAR. Cost for Fuel for 100 ft. Gas
VAR. Cost for Fuel for 10 ft. Gas
Total amount Rent Drilling

Grand Total Cost 1900
Grand Total Cost 1900

Total Cost including Stand Pipe Cost

Total 1900
Total 1900

Supplies
Rent on Drill
Cost Labor & Learning
Foreman, Runners & Helpers

BILLING UP AND SINKING STAND PIPE.

Total Drilling Cost 1900
Total Drilling Cost

Total cost including rent of pipe cost

Total Supplies 1900
Total Supplies 1900

General Expenses
Carbor - 11 0/32 Kcs. @ \$30.75
Repairs
Dives, Tools, etc.
Oil and Waste
Fuel and Grease

SUPPLIES.

Total Labor 1900
Total Labor 1900

Total Labor 1900
Total Labor 1900

Total
Total

of Labor and Learning
Drilling R. & H. Men
Labor
Man

DRILLING.

Date Amount Cost P. No.

1900	244.31	178
1900	116.25	179
1900	244.31	180
1900	116.25	181

1900	100.00	182
1900	100.00	183
1900	100.00	184
1900	100.00	185

CLEVELAND IRON MINING CO. and IRON CLIFFS CO.

Recapitulation of Inventory Accounts, Showing Amount
on Hand at Close of Each Year from 1896 to 1900.

Cleveland Iron Mining Co.	1900	1899	1898	1897	1896
<u>SUPPLIES.</u>					
Hard Ore	17207.76	16847.87	9255.57	12465.64	11636.54
Lake	36408.80	25089.59	15223.69	13783.63	13944.04
Volunteer		7484.01			
Michigamme	14711.79	8094.72			
Imperial	3820.96	2670.83			
Total	72149.31	60187.02	24479.26	26249.27	25580.58
<u>MINE EQUIPMENT.</u>					
Hard Ore	11634.85	5758.58	4161.86	4607.40	5864.60
Lake	2507.97	3528.51	4475.17	13993.41	14987.45
Michigamme	414.35				
Total	14557.17	9287.09	8637.03	18600.81	20852.05
<u>SCRAP.</u>					
Hard Ore	240.96	25.50	33.96	236.00	216.27
Lake			32.13	72.66	48.66
Michigamme	10.30				
Total	251.26	25.50	36.09	308.66	264.93
Total C.I.M. Co.	86957.74	69499.61	33152.38	45158.74	46697.56
<u>IRON CLIFFS CO.</u>					
<u>SUPPLIES.</u>					
Cliffs Shaft	35341.45	35814.66	18459.83	14049.18	12587.73
Salisbury	12120.13	10872.42	11806.35	15054.92	6428.99
Foster			155.31	1442.61	2885.13
Total	47461.58	46687.08	30421.49	30546.71	21901.85
<u>MINE EQUIPMENT.</u>					
Cliffs Shaft	6342.80	7126.88	6061.40	3431.53	3799.34
Salisbury	493.12	366.82	815.96	2300.33	1697.15
Foster			881.20	1279.27	1483.78
Total	6835.92	7493.70	7758.56	7011.13	6980.27
<u>SCRAP.</u>					
Cliffs Shaft	131.03	10.99		119.00	32.92
Salisbury	84.00	29.70	45.14	125.14	90.14
Foster					
Total	215.03	40.69	45.14	244.14	123.06
Fitch Mine Fixtures		1457.24	1489.24	1585.24	1665.24
Total Iron Cliffs Co.	54512.53	55678.71	39714.43	39387.22	30670.42
GRAND TOTAL.	141470.27	125178.32	72866.81	84545.96	77367.98

Cleveland Iron Mining Co.

Dept. M & M
Cap. of Inventory Accounts

1896 to 1900

on Hand at Close of Each Year from 1896 to 1900.

Reconciliation of Inventory Accounts, Showing Amount

CLEVELAND IRON MINING CO. and IRON OILS CO.

1896 1897 1898 1899 1900

GRAND TOTALS

177450.21 178148.23 18222.91 27942.22 11220.20

Total Iron Oils Co.
Misc Mine Supplies

2412.22 2246.11 2241.72 2222.22 2010.00
1481.24 1482.24 1482.24 1482.24 1482.24
212.02 40.22 42.14 242.12 122.02

Wagon
Sillstone
Oils Shaft

11.00 22.10 42.14 112.14 20.14
121.02 10.22 42.14 132.00 22.22

SCRAP

2222.22 1122.10 1122.22 1011.12 2480.24

Wagon
Sillstone
Oils Shaft

422.12 222.22 212.22 222.22 142.12
2242.22 1122.22 2021.40 2221.22 2222.24

SCRAP

1122.22 2222.02 2021.42 2022.11 21201.02

Wagon
Sillstone
Oils Shaft

12120.12 10122.42 11202.22 12024.22 2422.22
22221.42 2221.42 12422.02 12022.12 11202.12

IRON OILS CO.

Total O.I.M. Co.

2222.24 2242.21 2222.22 2222.44 2222.22
221.22 22.20 22.02 202.02 224.22

Wagon
Sillstone
Oils Shaft

10.20 22.22 22.22 22.22 22.22
240.22 22.20 22.22 22.22 22.22

SCRAP

14221.11 2221.02 2221.02 10200.21 2022.02

Wagon
Sillstone
Oils Shaft

414.22 2222.21 412.11 1222.22 1222.22
2202.21 2222.22 412.11 1222.22 1222.22
11224.22 2222.22 412.11 1222.22 1222.22

SCRAP

1212.21 2012.02 2222.22 2222.24 2222.22

Wagon
Sillstone
Oils Shaft

2220.22 2220.22 2220.22 2220.22 2220.22
1221.22 2220.22 2220.22 2220.22 2220.22
2220.22 2220.22 2220.22 2220.22 2220.22
1220.22 1220.22 1220.22 1220.22 1220.22

IRON MINING CO.

CLEVELAND IRON MINING CO.

LAKE MINE.

Report of Operating and Maintenance of Electric Haulage Plant, For
the Year Ending November 30th, 1900.

<u>OPERATING.</u>	<u>Labor</u>	<u>Supplies</u>	<u>Total Amount</u>	<u>Per Car</u>	
				<u>1900</u>	<u>1899</u>
Motor and Brakeman	11192.00	259.78	11451.78	.066	.056
Chuteman	13161.28	566.77	13728.05	.079	.073
Oiling & Repairing Cars	733.32	274.09	1007.41	.006	.005
Prop. of Engine House Expense (See Supplementary Statement)	2069.64	4490.92	6560.56	.038	.025
Cost per <u>Total Operating</u>	27156.24	5591.56	32747.80	.189	.159
Cost per Car	.157	.032	.189		
Cost per Car 1899	.138	.021	.159		
DIVIDED AS FOLLOWS:-					
5041 Cars Filling Rock	783.51	166.77	950.28	.188	.158
8081 Cars Tramming Rock	1266.08	264.47	1530.55	.189	.169
155225 Cars Tramming Ore	24415.76	5020.22	29435.98	.189	.159
4374 Cars Tramming Timber	690.89	140.10	830.99	.189	.157
172721 Cars Total	27156.24	5591.56	32747.80	.189	.159
166693 Cars Total for 1899	23012.16	3535.95	26548.11	.159	.127
<u>FILLING ROCK 5041 CARS.</u>					
Proportion of Motor Expense	783.51	166.77	950.28	.188	.158
Expense of Putting Away	3149.09	102.52	3251.61	.645	.598
Total	3932.60	269.29	4201.89	.833	.756
<u>TRAMMING ROCK 8081 CARS.</u>					
	1266.08	264.47	1530.55	.189	.160
<u>TRAMMING ORE 479776 TONS.</u>					
Proportion of Motor Expense	24415.76	5020.22	29435.98	.061	.051
Tramming and Skip Tending	3366.63	176.51	3543.14	.007	.007
Total	27782.39	5196.73	32979.12	.068	.058
Tramming 3rd Level, 11485 Tons	2517.03		2517.03	.219	.250
Tramming South Deposit, 67000 Tons	5050.81	71.10	5121.91	.076	
Total (Tonnage 497204)	35350.23	5267.83	40618.06		
<u>TRAMMING TIMBER 4374 CARS.</u>					
Proportion of Motor Expense	690.89	140.10	830.99	.190	.158
<u>GRAND TOTAL</u>					
	41239.80	5941.69	47181.49	.229	.187
<u>MAINTENANCE OF PLANT.</u>					
Electric Engine	10.12	2.97	13.09	.000	.000
Motors	2060.66	1988.09	4048.75	.023	.021
Wiring	262.80	178.51	441.31	.002	.003
Main Line Tracks & Cars	3189.56	2299.26	5488.82	.032	.024
Total Maintenance Cost	5523.14	4468.83	9991.97	.057	.048
Total Operating Cost	27156.24	5591.56	32747.80	.189	.159
Total	32679.38	10060.39	42739.77	.246	.207
Total 3rd Level	1922.78	1981.51	3904.29	.024	
<u>GRAND TOTAL.</u>					
	34602.16	12041.90	46644.06	.270	
Cost per Car Exclusive of 3rd level	.188	.058	.246		
Cost per Car for 1899	.161	.046	.207		
Increase for 1900 Excl. of 3rd Level	.027	.012	.039		

THE CLEVELAND IRON MINING CO.

Supplementary to Electric Haulage Report for Year Ending Nov. 30th, 1900

Comparative Statement of Labor Cost.

	1900				1899			
	No. Days	Rate	Amount	Per Car	No. Days	Rate	Amount	Per Car
Motor & Brakemen	5661 3/4	1.98	11192.00	.065	5069 1/2	1.79	9102.00	.055
Chutemen	7017	1.88	13161.28	.076	6891	1.70	11724.84	.070
Oiling & Rep. Cars	353 1/2	2.07	733.32	.004	346 1/2	1.90	658.94	.004
Prop. E.H. Expense	1040 1/4	1.99	2069.64	.012	837 1/2	1.82	1526.38	.009
Total	14072 1/2	1.93	27156.24	.157	13144 1/2	1.75	23012.16	.138

	1900	1899
No. Cars & Cost	172772 .157	166693 .138
No. Cars per Day	12.3	12.7
Amt. of Increase in Wages pr. da	.18 =	2532.96
Cost per car by Increased Wages	.0146	
Comparative Cost on Equal wage rate	.1424	.138
Increase in Cost per Car	.0044	
Cost per car for Supplies	.032	.021
Cost <i>by</i> Increased Cost per ton for coal (.59)	.0055	
Cost <i>by</i> Increased Amt. of Fuel used, 305 tons	.0035	
Total Increase on Acc't of Fuel \$1576.63	.0090	
Comparative Cost	.023	
Increase in Supply cost per car	.002	

CLEVELAND IRON MINING COMPANY.

Repairs to Dwellings not rented year ending November 30th, 1900

and

Expense at Cottage.

<u>Wm. G. MATHER'S COTTAGE.</u>			
Doors and windows			53.61
Closet and wash bowl			55.24
Clothes rack			17.79
Electric Light			54.28
Shelving			29.98
Cupboards			9.29
Flower Boxes			1.05
Furniture			.59
Eave troughs			7.10
Basement and Cellar			21.35
Furnace			9.50
Sewer			34.94
Chimney			10.95
Roads and Fences			22.77
Walks			48.85
White washing Fences			22.20
Roof Repairs			42.66
Water Works			189.21
Total On Building			<u>631.36</u>
 <u>FUEL</u>			
<u>1200</u>			
3-	tons Egg Coal	6.75	23.12
11-	230 tons Egg Coal	6.25	69.47
3	tons Nut Coal	6.25	50.00
			<u>142.59</u>
 <u>LIGHT.</u>			
Dec. 1, '99 to Dec. 1, 1900		3.00	36.00
14 Lamps		.25	3.50
2 Sockets		.25	.50
			<u>40.00</u>
 <u>SUNDRIES.</u>			
Choreman 8 months			343.20
Ice for Season-Contract			30.00
Telephone-County			15.00
			<u>388.20</u>
 <u>CARE OF GROUNDS.</u>			
Fences			145.63
Roads			98.19
Water Works			33.46
Sign Boards			.57
Cleaning grounds			35.19
			<u>313.04</u>
Total Ordinary Expense			1515.19
Total Last year	1344.00		
Addition to Building	2301.23		2301.23
For last year	499.93		
Total Cost	2801.16		
 <u>LANDSCAPE GARDENING</u>			
As per statement of Land Improvement			4615.08
Total Expense Building and Grounds			<u>8431.50</u>

CLEVELAND IRON MINING COMPANY.

Repairs to Dwellings not rented, year ending November 30th, 1900.

M. M. DUNCAN'S RESIDENCE.

Doors and windows	115.85	
Furniture	5.70	
Electric Dight	4.80	
Stove	19.66	
Telephone	1.48	
Wash Basin	3.00	
Closets	.75	
Ventilator	1.90	
Water Works	50.35	
Gardening	86.52	
Cellar	1.65	
Chimney	1.60	
Roof Repairs	77.22	
Eave Troughs	2.70	
Hammock	.33	
Ice Cream Freezer	.54	
Sewer	3.40	
Root House	2.62	
Clothes Reel	4.38	
Ice House	7.83	
Barn	11.48	
Golf	15.67	
Painting Outside(Old and new additions)	280.00	
Plumbing and improving old plant and plumbing new addition.	350.00	
Total		1049.43
Total for last year.	\$336.54	
Total New Addition	\$257.40	257.40
Total for last year.	615.62	
	873.02	

CARE OF GROUNDS

Fence-20.63	Warer Works-18.99	39.62	
Lawn and garden		22.62	
Total			62.24

LANDSCAPE GARDENING.

As per statement Land Improvement		601.61	
Total Expense Building and grounds.			1970.68

CLEVELAND IRON MINING COMPANY.

Statement of Land Improvement and Landscape Gardening Year Ending

November 30th, 1900.

Wm. G. Mather's Grounds at Cottage		313.04	
M. M. Duncan's Grounds at Residence		62.24	
<u>GENERAL WORK.</u>			
Fencing	207.97		
Wall-Jasper Street	11.95		
Lawn, shops, and office	8.62		
Plowing	3.50		
Photographing and notices	4.60		
Planting trees on Hill	58.50		
School House Mine	169.61		
Jasper Street Road	444.53		
Division St. Play Grounds	519.02		
Cutting Hay	43.37		
Cutting Wood	311.68	1783.35	
<u>Total Land Improvement</u>			2158.63
<u>LANDSCAPE GARDENING.</u>			
Grounds at President's Cottage	4615.08		
" " Agent's Residence	601.61		
" " Master Mechanic's Residence	106.76		
" " Machine Shop	84.47		
J-Shaft	22.00		
School House Mine	257.80		
General Office	14.76	5702.48	
<u>Total Landscape Gardening</u>			5702.48
<u>SUMMARY.</u>			
<u>DWELLINGS NOT RENTED.</u>			
Cottage-Old Building-	631.36		
Cottage-New Addition-	2301.23		
<u>Total</u>		2932.59	
Agent's Residence-Old Building-	1049.43		
Agent's Residence-New Addition-	257.40		
<u>Total</u>		1306.83	
<u>Grand Total</u>			4239.42
<u>LAND IMPROVEMENT.</u>			
As per above	2158.63		
Received for Wood	363.00		
Received for Hay	<u>70.00</u>	433.00	
<u>Net Land Improvement</u>		1725.63	
<u>Landscape Gardening</u>		5702.48	
<u>Grand Total</u>			7428.11

Cleveland Iron Mining Co.

Repairs to Sawmill Not Listed
Expenses at Cottage
Land Improvements Landscaping Gardening

Year 1900

Dept Mr Mc

CLEVELAND IRON MINING COMPANY

November 30th, 1900

Statement of Land Improvement and Landscaping Gardening Year Ending

GENERAL WORK

W.M. ...'s Grounds at Residence
 and ...'s Grounds at Cottage

Planting
 Lawn, sheds, and office
 1871-1880's street
 Landscaping

217.68
 42.24
 273.03
 444.52
 183.87
 26.20
 4.60
 2.00
 8.43
 11.32
 207.24

63.24
 212.04

LANDSCAPE GARDENING

Total Land Improvement
 Cutting Wood
 Drifting Hill
 Division of Pkwy Grounds
 Leader Street Wood
 School House Mine
 Planting Trees on Hill
 Photographing and notices
 blowing
 Lawn, sheds, and office
 1871-1880's street
 Landscaping

14.18
 257.80
 28.00
 84.44
 106.48
 201.67
 422.03

1432.22

2728.62

Total Landscaping Gardening

14.18

2402.48

2402.48

SUMMARY

Landscaping-Old Building
 Landscaping-New Addition
 Total

627.22
 2201.22

2828.22

Went's Residence-Old Building
 Went's Residence-New Addition
 Total

1049.42
 225.40

1288.82

4522.42

Received for Wood
 as per above

282.00
 10.00

292.62

LAND IMPROVEMENT

Grand Total

Landscaping Gardening
 Net Land Improvement

432.00

1252.62

2402.48

4432.11

C L E V E L A N D I R O N M I N I N G C O .

Report of Operating Steam Shovel No. 4 for Season of 1900.

	1900	1899
No. Of Days Shovel Worked	91	158
Average No. of Hours Worked per Day	5.91	5.55
Total Number Tons Loaded	124482	144802
Average Tons per Day Loading	1368	916
Number Men Working with Shovel	11	11
Average Tons per Man per Day	124.3	83.2
Average Wages per Day for Runners	2.50	2.31
Average Wages per Day for Laborers	1.75	1.64
Labor Cost per Ton Operating	.023	.029
Supply Cost per Ton Operating	.005	.007
Total	.028	.036

	Tons 1900	Tons 1899	Amount	Cost	Amount	Cost
Hard Ore	2710		71.29	.026		
Lake	92406	8029	2713.43	.029	372.22	.046
Hematite		41860			1476.63	.035
Cliffs Shaft	10725	22279	282.72	.026	1032.91	.046
Salisbury	18641	17030	391.60	.021	796.40	.046
Foster		55604			2414.49	.043
Total	124482	144802	3459.04	.028	6092.65	.041
<u>Operating Shovel.</u>						
Labor			2868.29	.023	4305.45	.029
Supplies			573.81	.005	1049.69	.007
Total			3442.10	.028	5355.14	.036
<u>Repairs to Shovel.</u>						
Labor			16.91	.000	521.85	.003
Supplies			.03	.000	215.66	.002
Total			16.94	.000	737.51	.005
Total Operating & Rep. Cost			3459.04	.028	6092.65	.041

Note:-

This is New Shovel Bought in July 1900 After Disposing of Old Shovel #1

Costs of Operating Steam Shovel No. 4 for Season of 1900.

Item	Total	Per 1000 Tons	Per Ton
Total Operating & Repair	14880.04	4.088	.041
Supplies	12.84	3.44	.003
Labor	3.03	8.15	.008
Repairs to Shovel	12.97	3.51	.009

Item	Total	Per 1000 Tons	Per Ton
Supplies	242.81	10.40	.011
Labor	2208.22	42.02	.042
Operating Shovel	2443.10	62.82	.063

Item	Total	Per 1000 Tons	Per Ton
Total	13448.22	3.448	.035
Hopper	22804	8.41	.085
Sullivan	12641	17.03	.017
Gillette Shovel	10722	28.27	.028
Hennetite	41820	14.16	.014
Jack	22402	6.02	.060
Hand Ore	2410	1.33	.013

Item	Total	Per 1000 Tons	Per Ton
Total	13448.22	3.448	.035
Supply Cost per Ton Operating		.002	.002
Labor Cost per Ton Operating		.032	.032
Average Wages per Day for Laborers	1.72	1.72	.017
Average Wages per Day for Runners	2.50	2.50	.025
Average Tons per Man per Day	184.2	184.2	1.842
Number Men Working with Shovel	11	11	11
Average Tons per Day Loading	1300	1300	1.3
Total Number Tons Loaded	134482	134482	134482

Item	Total	Per 1000 Tons	Per Ton
Total	13448.22	3.448	.035
Operating Steam Shovel No. 4 for Season of 1900	1300	1300	1.3

Cleveland Iron Mining Co.

Steam Shovel Report
Year 1900
Dept. Iron & M.

Report of Operating Steam Shovel No. 4 for Season of 1900.

CLEVELAND IRON MINING CO.

Cleveland Iron Mining Co.

Record of Cost for Shop Work at the Hard Ore Shop for the year ending November 30th, 1900.

	Machine Shop		Blacksmith Shop		Carpenter Shop.	
	1899	1900	1899	1900	1899	1900
Average number of men	6	7	4	5	1	2
Total no. of hours worked	17447	23200	9908	17137 $\frac{1}{2}$	3353	7537 $\frac{1}{2}$
Hours on shop tools, etc.	343	213	154	222	94	118 $\frac{1}{2}$
Hrs. for various persons	3001	4062	556	1997	613	1564
Hrs. on mine accts. C.I.M.Co.	14103	18925	9198	14918 $\frac{1}{2}$	2646	5855
Total Cost per hour	.276	.278	.252	.230	.319	.239
Cost per hr. on shop tools	.276	.278	.252	.230	.319	.239
Cost per hr. various accts.	.281	.281	.256	.233	.343	.243
Cost per hr. mine accts.	.281	.281	.256	.233	.324	.243
Total Labor Cost	3631.12	5262.58	2058.61	3483.67	764.31	1676.58
Cost per hour	.208	.227	.208	.203	.228	.222
Total Supply Cost	1191.96	1186.57	438.51	455.50	303.46	128.64
Cost per hour	.068	.051	.044	.027	.091	.017
Total labor & Supply Cost	4822.38	6449.15	2497.12	3939.17	1067.77	1805.22
Profit on work done for various persons & mines other than C.I.M.Co.	379.16	541.11	27.89	174.76	Loss 51.24	164.72
Aver. chrgs per hour to various persons & mines	.406	.415	.306	.320	.259	.346
Various persons & mines profit per hour	.125	.134	.050	.087	Loss .084	.103
<u>SUPPLIES USED AS FOLLOWS</u>						
General Supplies	137.61	185.11	157.74	312.26	42.08	33.60
Iron and steel	14.60	9.89	4.19	16.29	.08	2.18
Oil grease & candles	43.82	75.38	1.25	.73	.84	.90
Machinery supplies	47.42	129.38	17.67	11.86	2.54	4.62
Building Material	5.63	.50		.42	.42	.88
Fuse	830.13	684.51	229.30	95.27	229.30	71.06
Sundries	112.05	101.80	28.36	18.67	28.20	15.40
Total	1191.26	1186.57	438.51	455.50	303.46	128.64

Cleveland Iron Mining Co.

Sept. M & M.
 Stmt of Shop Labor
 1900

Cleveland Iron Mining Co.

for the year ending November 30th, 1900.

	1899	1900	1899	1900	1899	1900	1899	1900	
	Machines Shop		Disciplining Shop		General Shop				
Total	1101.36	1100.61	488.21	482.80	303.46	158.64			
Salaries	118.02	101.30	33.32	19.94	33.30	12.40			
Fuel	830.19	834.21	329.40	325.51	350.30	11.02			
Printing material	2.37	.90	.42	.42	.42	.33			
Expensive supplies	41.43	153.38	11.94	11.30	5.24	4.33			
Oil, Grease & services	49.32	19.39	1.32	.13	.37	.30			
Iron and steel	14.00	6.89	4.13	10.30	.08	5.13			
General supplies	131.21	182.11	121.14	212.39	15.08	32.00			
SUPPLIES USED IN MACHINES									
Electricity per hour	.182	.124	.020	.031	.036	.036	.103		
Various hardware & mines	.408	.412	.302	.250	.229	.242			
Various persons & mines	312.16	241.11	51.23	111.10	21.24	164.15			
Other than C.I.M.C.									
Various persons & mines									
Profit on work done for									
Total labor & supply cost	4825.23	3425.12	2521.13	2326.11	1021.11	1802.32			
Cost per hour	.028	.021	.044	.021	.021	.011			
Total supply cost	1121.36	1126.21	432.25	422.20	302.46	122.24			
Cost per hour	.023	.021	.023	.023	.023	.022			
Total labor cost	3693.18	2302.98	2088.88	2422.21	1221.21	1222.22			
Cost per hr. mine waste.	.281	.221	.222	.223	.224	.223			
Cost per hr. various costs.	.281	.221	.222	.223	.224	.223			
Cost per hr. on shop tools	.218	.212	.222	.220	.212	.220			
Total cost per hour	.212	.212	.222	.220	.212	.220			
Rate on mine supplied C.I.M.C.	11102	12222	2122	12122	2212	2222			
Rate for various persons	3001	1222	222	1222	212	222			
Hours on shop tools, etc.	322	212	122	212	21	122			
Total no. of hours worked	1121	23200	2222	1121	3222	1221			
Average number of men	1899	1900	1899	1900	1899	1900			

CLEVELAND IRON MINING CO.

STATEMENT SHOWING THE AMOUNT PAID FROM BENEFIT AND SUSPENSE FUNDS,
NUMBER OF ACCIDENTS AND TIME LOST EACH YEAR FROM DECEMBER 1ST, 1891, ALSO
CREDITS TO BENEFIT AND SUSPENSE FUNDS NOVEMBER 30th, 1900.

<u>MINES.</u>	<u>Hard Ore</u>			<u>Lake</u>		
	<u>Year Ending</u>	<u>Cases</u>	<u>Days Lost</u>	<u>Amount Paid</u>	<u>Cases</u>	<u>Days Lost</u>
November 30th, 1892	48	1483	3785.66	47	1679	1783.46
" " 1893	14	798	631.70	51	2494	1959.48
" " 1894	8	313	609.80	33	1642	1271.96
" " 1895	2	27	18.00	43	1261	1733.14
" " 1896	4	62	55.54	43	1527	4242.54
" " 1897	2	35	27.34	63	2051	4194.66
" " 1898	2	22	16.08	52	1591	1598.48
" " 1899	7	89	71.46	65	1910	1479.94
" " 1900	17	395	302.68	64	2573	3065.84
Total	104	3224	5518.26	461	16728	21329.50
Credit to Benefit Fund			3422.80			4038.54
Credit to Suspense Fund			3422.80			4038.54

<u>MINES.</u>	<u>Hematite</u>			<u>Volunteer</u>		
	<u>Year Ending.</u>	<u>Cases</u>	<u>Days Lost</u>	<u>Amount Paid</u>	<u>Cases</u>	<u>Days Lost</u>
November 30th, 1892	18	539	914.20			
" " 1893	8	316	1244.32			
" " 1894	15	257	721.56			
" " 1895	15	217	177.40			
" " 1896						
" " 1897						
" " 1898						
" " 1899				5	77	58.80
" " 1900				23	398	864.63
Total	56	1329	3057.48	28	475	923.43
Credit to Benefit Fund			895.77			783.35
Credit to Suspense Fund			885.97			463.42

<u>MINES.</u>	<u>Imperial & Webster</u>			<u>Michigamme</u>		
	<u>Year Ending.</u>	<u>Cases</u>	<u>Days Lost</u>	<u>Amount Paid</u>	<u>Cases</u>	<u>Days Lost</u>
November 30th, 1899	4	33	24.49			
" " 1900	18	410	297.54	11	172	136.08
Total	22	443	322.03	11	172	136.08
Credit to Benefit Fund			868.71			608.20
Credit to Suspense Fund			521.26			363.92

CLEVELAND IRON MINING CO.

STATEMENT SHOWING AMOUNT PAID FROM BENEFIT AND SUSPENSE FUNDS,
NUMBER OF ACCIDENTS AND TIME LOST EACH YEAR FROM DECEMBER 1st, 1891, ALSO
CREDITS TO BENEFIT AND SUSPENSE ACCOUNTS, NOVEMBER 30th, 1900.

The Cleveland Iron Mining Co.		GRAND TOTAL.		
<u>Year Ending.</u>		Cases	Days Lost	Amount Paid
November 30th, 1892		113	3701	6483.32
" " 1893		73	3608	3835.50
" " 1894		56	2212	2603.32
" " 1895		60	1505	1928.54
" " 1896		47	1589	4298.08
" " 1897		65	2086	4222.00
" " 1898		54	1613	1614.56
" " 1899		81	2109	1634.69
" " 1900		133	3948	4666.77
Total		682	22371	31286.78
Credit to Benefit Fund				10617.37
Credit to Suspense Fund				9695.91

Note:-

Benefit Fund Amount Contributed by
Employees.

Suspense Fund, Amount Contributed by
Cleveland Iron Mining Co.

The number of cases contributed by New Mines in 1900 in excess of
previous year.

Volunteer	18
Imp. & Webster	14
Michigamme	11
Hard Ore	10
	<u>53</u>

CLEVELAND IRON MINING CO.

RECORD OF DELAYS FROM VARIOUS CAUSES YEAR ENDING NOVEMBER 30th, 1900.

HARD ORE MINE.

	Hours Delay	Tons Lost	Per Cent of Time Lost.	
			1900	1899
Fatal Accidents				
Strikes				
Skip & Skip Roads Bell Line	42	0	.118	
Hoisting Machinery	18	0	.051	
Motors & Cars, Underground Tracks & Cars				
High Water in Lake Bottom				
Shaft and Shaft House Repairs				
No. R.R. Cars	1	0	.002	
Barring Ground				
Top Tram Engine and Cars	10	0	.028	
Cave In and Mud				
Crusher Repairs				
Rain and Snow				
Miscellaneous	5	0	.014	
Total	76	0	.213	
Holidays	280	3486	.787	
Total Inc. Holidays	356	3486	1.000	
No. Days 20 Hrs. per day	17 3/4			
Actual Product for Year	74459			
Average Product per day per year	249			
No. of full days Mine worked per year	259 1/4			
No. Days Idle	17 3/4			
Lost Product (Excluding Holidays)	0			
<u>FIXED CHARGES.</u>				
	Tons	Cost	Amount	
Accounts that are not affected when Mines are idle.				
General Expense (Except Analysis & R. Fund)		.161	12051.34	
Maintenance		.067	4964.04	
Air Pipes		.004	297.66	
Pumping		.071	5297.35	
Mining Captain		.021	1500.00	
Cave In				
Stripping				
Exploring				
Depreciation		.507	37782.31	
Total		.831	61892.70	
Total cost on stock pile for year (Actual)	74459	1.821	135625.26	
Less Fixed Charge - Cost per ton Cost of Lost Product				
Possible Product and Cost				
Loss or the difference between actual and possible cost and the amount.				

CLEVELAND IRON MINING CO.

RECORD OF DELAYS FROM VARIOUS CAUSES YEAR ENDING NOVEMBER 30th, 1900.

LAKE MINE.

	Hours Delay	Tons Lost	Per Cent of time lost	
			1900	1899
Total Accidents	154	8750	.222	.035
Strikes				
Skips & Skip Roads & Bell Line	39	0	.056	.035
Hoisting Machinery	29	1500	.041	.009
Motors & Cars, Underground Tracks & Cars	91	1250	.132	.295
High Water in Lake Bottom				.167
Shaft & Shaft House Repairs				.041
No. R.R. Cars				
Barring Ground				
Top Tram Engine & Cars	15	1200	.022	.006
Cave In and Mud				.006
Crusher Repairs				
Rain and Snow	7	600	.011	
Miscellaneous	12	0	.017	.005
Total	347	13300	.501	.599
Holidays	344	23700	.499	.401
Total Inc. Holidays	691	37000	1.000	1.000
No. Days 24 Hrs. per day	29			
Actual Product for Year	497204			
Average Product per day for year	1697			
No. of full days Mine worked for year	284			
No. days idle	29			
Lost Product (Excluding Holidays)	13300			
<u>FIXED CHARGES.</u>	Tons	Cost	Amount	
Accounts not effected when Mines are idle.				
General Expense (Except Analysis & R. Fund)		.051	25183.29	
Maintenance		.061	30107.55	
Air Pipes		.002	812.97	
Pumping		.020	9882.75	
L.A. Pumping Expense		.007	3476.64	
Mining Captain		.005	2500.00	
Cave In		.010	5111.61	
Stripping				
Exploring		.005	2360.64	
Depreciation		.038	18730.17	
Total		.199	98165.62	
Total Cost on stock pile for year (Actual)	497204	.974	484254.96	
Less Fixed Charge - Cost per ton		.199		
Cost of Lost Product	13300	.775	10307.50	
Possible Product and Cost	510504	.969	494562.46	
Loss or the difference between actual and possible cost and the amount	510504	.005	2552.52	

CLEVELAND IRON MINING COMPANY.

COMPARATIVE STATEMENT OF TAXES FOR 1900 AND 1899.

DEPARTMENT OF MINES.

DESCRIPTION	1900		1899	
	VALUATION	TAXES	VALUATION	TAXES
CITY OF ISHPERING.				
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 and that part known as the C.I.M.Co's Nebraska Hill Location (so-called), except the rights of way of the C.& N.W.Ry.Co., L.S.& I.Ry.Co. and D.S.S. & A. Ry. Co. across said land in a northeasterly and southwesterly direction	1,312,500	15457.29	508,364	15702.83
W $\frac{1}{2}$ of W $\frac{1}{2}$ Sec. 11-47-27 except the rights of way of the D.S.S. & A.Ry. Co. and L.S. & I. Ry. Co. across said land in an easterly and westerly direction about 140 acres	3,840	45.21	2,880	89.11
NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 2-47-27 38.92 A.	5,375	64.30	4,030	124.48
NE $\frac{1}{4}$ of NW $\frac{1}{4}$ of Sec. 2-47-27 38.60 A.	1,030	12.02	774	23.95
S $\frac{1}{2}$ of NW $\frac{1}{4}$ of Sec. 2-47-27 80 A.	3,050	35.89	2,286	70.72
Nebraska Hill Location Lots	44,705	526.38	33,246	1027.53
Personal at Mine	289,100	3405.00	63,392	1958.10
Beats "PONTIAC", "FRONTENAC", "CADILLAC", and "PIONEER"	78,400	923.31	58,824	1816.99
Total Assessed		20469.40		20813.71
Collection Fees 1%		204.69		208.14
Total Ishpeming City	1,738,000	20674.09	6 73,796	21021.85
Rate (Not incl. fees)		1.177		3.119
Increase over last year 157.9%	1,064,204			
Decrease 1.64%		347.76		
 SPURR TOWNSHIP: BARAGA COUNTY IMPERIAL, WEBSTER, & TITAN.				
NW $\frac{1}{4}$ of Sec. 25-48-31 160 acres	10,000	319.55	6,000	288.01
N $\frac{1}{2}$ of NE $\frac{1}{4}$ 26-48-31 80 acres)	5,000	159.78	210	10.08
SE $\frac{1}{4}$ of NE $\frac{1}{4}$ 26-48-31 40 acres)				
Lot No. 1 of Sec. 21-48-31 49.50 A.	3,000	95.87)	1,000	48.00
Lot No. 2 of Sec. 21-48-31 18 acres	70	2.23)	50	2.41
Imperial Personal Taxes	1,500	47.94		
Total Assessed	19,570	625.37	7,260	348.50
Collection Fees-1%		6.25		3.48
Total	19,570	631.62	7,260	351.98
Rate (Not incl. fees)		3.227		4.848
 MICHIGAMME MINE. SPURR TOWNSHIP.				
N $\frac{1}{2}$ of NW $\frac{1}{4}$ 4-48-31 77.23 A.	200	6.40		
SW $\frac{1}{4}$ of NW $\frac{1}{4}$ 4-48-31 40 A.	100	3.19		
NW $\frac{1}{4}$ of SW $\frac{1}{4}$ 4-48-31 40A.	100	3.19		
Lots 1 and 2 25-48-31 70.13 A.	190	6.08		
N $\frac{1}{2}$ of NE $\frac{1}{4}$ 25-48-31 80 A.	220	7.04		
SW $\frac{1}{4}$ of NE $\frac{1}{4}$ 25-48-31 40 A.	110	3.51		
N $\frac{1}{2}$ of SW $\frac{1}{4}$ 25-48-31 80 A.	220	7.04		
Total Assessed	1140	36.45		
Collection Fees-1%		.37		
Total	1140	36.82		

	1900		1899	
	VALUATION	TAXES	VALUATION	TAXES
MICHIGAMME MINE (CONT)				
CHAMPION TOWNSHIP.				
SW $\frac{1}{4}$ of SW $\frac{1}{4}$ 30-48-29 35.37 A.	134	1.79		
Fees		.08		
<u>Total</u>	134	1.87		
MICHIGAMME TOWNSHIP.				
N $\frac{1}{2}$ of SE. That part of Sec. 19 not inc. in Village Plat, that part of lot lying on N of M.H. & D.R.R. Sec. 19-Town 48-Range 30	35,000	784.68		
Lots 2,3,4,5,6 20-48-30 151.70 A.	240	5.39		
Lots 1,2,3,4,5 25-48-30 169.80 A.	600	13.46		
S $\frac{1}{2}$ of NE $\frac{1}{4}$ 25-48-30 80 A.	300	6.72		
Lots 1,2,3,4 26-48-30 147.47 A.	375	8.41		
Lots 1,2,3, 27-48-30 100.40 A.	300	6.72		
Lot 1 30-48-30 26 A.	50	1.13		
Taxes on Village lots as per Tax S.	7,625	170.37		
<u>Total</u>	44,490	996.88		
Collection Fees-1%		9.97		
<u>Total</u>	44,490	1006.85		
Less taxes on E $\frac{1}{2}$ of 156 which belongs to Michigan Co.		.75		
<u>Total Michigan Township</u>		1006.10		
<u>Total Michigan Mine</u>	45,764	1044.74		
Amount of Taxes as per Statement Charged as Follows:				
Hard Ore 41.4%	683,160	8126.08	41.4%	7947.06
Lake 58.6%	966,985	11502.14	53.3%	10217.95
Hematite	9,455	113.33	05.3%	1021.68
Treasurer, Taxes on Boats	78,400	932.54		1835.16
<u>Total Ishpeming City.</u>	1,738,000	20674.09	673,796	21021.85
Imperial Mine-Charged in 1900	10,000	322.74	6,000	290.89
Webster Mine	5,000	161.38	210	10.18
Titan Mine	3,070	99.08	1,050	50.91
Michigan Charged in 1900	44,490	1006.10		
<u>Total</u>	1,800,560	22263.39	681,056	21373.83
Imperial Mine charged in 1901	1,500	48.42		
Michigan charged in 1901	1,274	38.69		
<u>Total</u>	2,774	87.11		
<u>Grand Total</u>	1,803,334	22350.50	681,056	21373.83
TAXES BY CITY & TOWNSHIPS				
Ishpeming City	1,738,000	20674.09	673,796	21021.85
Spurr Township	20,710	668.44	7,260	351.98
Champion Township	134	1.87		
Michigan Township	44,490	1006.10		
<u>Total</u>	1,803,334	22350.50	681,056	21373.83

Deliveries Scotch - year ending Nov. 30, 1900.

	<i>at Mines</i>		<i>at Marquette</i>		<i>at R. E. parts</i>	
	<i>Tons</i>	<i>Price amount</i>	<i>Tons</i>	<i>Price amount</i>	<i>Tons</i>	<i>Price amount</i>
<i>Dec.</i>					818	202563
<i>Feb.</i>					634	157096
<i>Mar.</i>					86	215214
<i>Apr.</i>					1097	271753
<i>May</i>	5139	1440	333	1711501	2774	1264992
<i>June</i>					195	89245
<i>July</i>					1531	698331
<i>Aug.</i>	887	1570	333	295604	2565	1100
<i>Sept.</i>					355	910749
<i>Oct.</i>						
<i>Nov.</i>						
<i>Sales of Previous Years</i>						
<i>1900 Sales</i>	6027	770	333	2007105	2565	1100

<i>Previous year's sales</i>	2638	280	2475	652946
<i>1900 Sales</i>	2713	2030	4099	8901050
	24352	70	3923	9553996

Deliveries of Michigan Ore - year ending Nov. 30, 1900.

	<i>at mine</i>	<i>at Marquette</i>	<i>at R. E. parts.</i>
<i>Aug.</i>			1841
<i>Sept.</i>			1197
<i>Oct.</i>			2314
<i>Nov.</i>			1399
<i>1900 Sales</i>			6752

Deliveries of Cleveland Bessemer - Year ending Nov. 30, 1900.

	Deliveries at Mine		at Marquette		Deliveries at L. E. ports	
	Tons	Price amount	Tons	Price amount	Tons	Price amount
December					934	1140 3 29 307453
January					1679	1840 3 29 552661
February					2869	1040 3 29 944054
March					2516	460 3 29 827832
April					2747	1820 3 77 1035925
May					662	520 3 77 249662
July					11410	100 3915277
						2310
			Previous year's Sales		11410	100 3431 3915277

Deliveries Saw Mill - Year ending Nov. 30, 1900.

	Deliveries at Mine		at Marquette		Deliveries at L. E. ports	
	Tons	Price amount	Tons	Price amount	Tons	Price amount
January					690	1000 2 25 155350
February					1224	1340 2 25 275534
March					236	760 2 25 53176
			Previous year's Sales		2151	860 484060
					2151	860 225 484060

Deliveries Cleveland #1

	at mine.	at Marquette	at Lake Erie
May		Previous year's Sales	1915 - 250 478750

Deliveries Lake Superior - Year ending Nov. 30, 1900

Date	Deliveries at Mine			Marquette			Deliveries at C. E. ports		
	Tons	Price	Amount	Tons	Price	Amount	Tons	Price	Amount
¹⁸⁹⁹ Dec.							3746	360	285 1067656
¹⁹⁰⁰ Jan.							5447	1120	298 1623355
							1265	1200	285 360679
Feb.							10095	2050	298 3008584
							1695	350	285 483119
Mar.							3696	860	298 1101522
							471	160	285 134261
							4160	1850	298 1239925
							30576	1230	9019101
							24	290	545 13150
Apr.	814	-	405 329670				26032	700	298 7757625
							3118	580	545 1699450
May	13869		405 5616945				11454	680	298 3413381
	₁₄₆₄₂		₅₉₄₆₆₁₅				17380	210	545 9472150
							₈₈₅₂₇	₁₂₅₀	₃₁₃₇₂₈₅₇
June	11881	-	405 4811805				28011	1260	545 15266298
							6811	1310	298 2029854
July	7100	-	405 2875500				28267	890	545 15405728
							3624	40	298 1079957
Aug.	7941	-	405 3216105	2593	-	480 1244640	20479	140	545 11161086
	₄₁₆₀₅		₁₆₈₅₀₀₂₅				175741	610	76317780
Sept.	3646	770	405 1476769				11148	180	545 6075703
							26	1360	298 7929
Oct.	5750	2230	405 2329153				21261	1220	545 11587536
Nov.	885	-	405 358425	2593	-	480 1244640	2111	160	545 1150533
	₅₁₈₈₇	₇₆₀	₇₁₀₁₄₃₇₂				₁₀₃₂₈	₁₂₉₀	₉₅₁₃₉₄₈₁
Previous years							78527	840	2969 23307847
1900	51887	760	405 21014372	2593	-	480 1244640	131801	450	545 71831634
Previous years Sales				78527	840	2969	23307847		
1900 Sales				186281	1210	5051	94090646		
				264808	2650	4433	117398493		

Sellings of Conrade - Year ending Nov. 30, 1900.

	at Mines			at Lake Erie pacts		
	Tons	Price	amount	Tons	Price	amount
December	379	2.5	9274.29	3747	4.20	2475 9274.29
January				3597	13.20	2475 8904.03
February				3201	2.160	2475 7924.87
March				3257	10.20	2475 8062.20
May				1413	5.80	2475 3497.81
				1006	10.60	4.26 4287.57
				1435	100	4.332 6216.61
June				1114	11.40	4.332 4828.05
July				489	19.40	4.26 2086.83
				852	4.20	4.332 3691.66
Aug				2650	14.00	4.26 11291.66
				2425	12.00	4.332 10507.40
Sept				1055	7.00	4.26 4495.63
Oct.				1045	16.00	4.26 4454.74
Nov.				97	7.20	4.26 414.59
				27390	100	899379.2
			Previous year's Sales	15217	10.20	2475 37663.20
			1900 Sales	12172	13.20	4294 52274.74
				27390	100	3064 899379.4

Deliveries of Imperial - Year ending Nov. 30, 1900.

	at Mines			at Escanaba			at Lake Erie ports		
	Tons	Price	amount	Tons	Price	amount	Tons	Price	amount
Dec.							787	1220	2055 1618 39
January							2379	340	2055 4889 15
February							1631	1160	2055 3352 76
March							472	2220	2055 972 00
April							158	2180	2055 326 69
July							5430	400	11158 99
Aug.							2441	2010	3876 9464 79
Sept							2005	1600	3876 7774 14
Oct.							9477	1770	3876 4831 99
Nov.							2561	1960	3876 9929 81
							3266	1760	3876 12662 04
							2583	780	3876 10013 05
							18489	1790	6100 482
							13375	540	2776 37129 66
				Less Webster Ore					
				Previous year's sales			5430	400	2055 11158 99
				1900 Sales			12859	1390	3876 49843 83
							18289	1790	3335 61002 82

Deliveries Webster Ore Year ending Nov. 30, 1900.

June & July drag	5759	430	2776	15987 51
Sept.	5070	680	2776	14075 16
Nov.	2545	1670	2776	7066 99
1900 Sales	13375	540	2776	37129 66

shipped as Imperial

Mines

Scotcht

Iron Cliff Co

5739 ¹⁴²⁰	17,115.01
887 ¹⁵⁷⁰	2,956.04
6,027 ⁷⁷⁰	20,071.05

Lake Bass

Illino. Steel Co

814	495	3296.70
13869		56,169.45
11281		48,118.05
7100		28,755.00
7941		32,161.05
3404		13,486.20
4102		16,613.10
885		3,584.25
49,996		202,483.80

C C C Co

242 ⁷⁷⁰	405	981.49
1648 ²²²⁰		6,678.43
1891 ⁷⁶⁰		7,659.92

210,143.72

Lake

Austrian Iron Co

9832 ⁴⁵⁰	170	10215.42
2693 ²²²⁰	260	7004.38
3091 ¹¹⁵⁰		8037.92
3218 ¹¹⁰		8366.92
5844 ¹⁹⁶⁰		15196.67
6006 ¹⁹⁹⁰		15617.91
30,687 ¹¹⁶⁰		65,039.23
307 ⁸⁸⁰		785.98
30,989 ¹⁸⁴⁰		65,825.21

C C Steel

3449 ⁷¹⁰	110	3794.24
4639 ⁷⁰⁰		5102.34
3170 ¹⁶⁵⁰		3487.81
4205 ⁸⁵⁰		4,625.92
986 ¹⁴²⁰		1,085.29
16,451 ¹⁰⁵⁰		18,096.60
2206	260	5,735.60
2705 ⁴⁵⁰		7,032.53
2502 ⁵⁹⁰		7,288.48
3721 ¹¹⁰⁰		9,675.88
4254 ¹²²⁰		14,062.39
1929 ¹⁷⁰⁰		5,017.47
3094 ⁷⁰⁰		8,045.26
5991 ²²⁰		1,557.85
26,705 ²¹⁴⁰		69,435.46

Pioneer Iron Co

1078 ²²²⁰	260	2805.37
2197 ¹²¹⁰		5,713.60
2030 ¹⁹⁹⁰		5,280.31
1419 ⁶²⁰		3,690.13
1863 ¹⁹⁹⁰		4,846.11
1156 ¹⁷⁰⁰		3,007.57
907 ⁵⁷⁰		2,358.99
892 ¹⁰⁵⁰		2,320.42
696 ³⁷⁰		1,809.91
695 ⁸³⁰		1,807.96
909 ⁶⁴⁰		1,844.14
575 ²¹⁵⁰		1,497.53
14,223 ¹⁷⁸⁰		36,981.84

Calk Rapids

3457 ¹⁸⁰⁰	8995.49
752 ⁷²⁰	1,957.20
3436 ¹⁷⁰⁰	8,935.66
794 ¹⁴²⁰	2,066.04
904 ¹²³⁰	2,251.82
9,348 ¹¹⁷⁰	24,306.11
656 ⁷⁰	1,705.67
10,004 ¹²⁴⁰	26,011.78

216,350.89

St. Marquette

Scotch

I. C. Co

2565 ¹¹¹⁰ ³⁵⁵ 9107.49

Lake Bess

P. White & Co

2593 @ 4⁸⁰ 12446.40

Lake

Iron Cliffs Co

14641 ¹⁴⁶⁰ @ 29⁰ 42,460.98

Kayford Iron Co

1530 2⁸⁷ 4391.10
1410 4046.70
2940 8437.80

Deseronto Co

2816 2⁸⁷ 8081.92
1474 4230.38
2782 7984.34
1194 3426.78
8,266 23,723.42

Webster

C. I. M. Co

13375 ⁵²⁰ @ 27¹ 37129.66

L. E. Post

Scotch

Lalwood #1

L & R Under & Co

Iron Bluff Co

818	⁹⁰⁰	2475	2,025.63
634	¹⁵⁰⁰	"	1,570.96
86	²¹⁶⁰	"	515.24
1097	²⁵²⁰	"	2,717.53
2638	²⁸⁰	"	6,529.36
2774	²⁴⁰	4 ⁷⁵	12,649.92
193	¹⁵⁰⁰	"	892.45
1531	⁹⁶⁰	"	6,953.31
2537	¹⁴²⁰	"	11,662.81
3424	¹⁴⁰	"	15,613.72
2638	²³⁰	"	12,029.86
13,121	¹⁶⁰	"	59,832.06

1915 2⁵² 4,787.50

Michigan

L & R W & Co

1841	⁶⁶⁰	4 ⁷⁵	5,746.15
1197	¹²⁰	"	5,686.00
2314	²¹⁴⁰	"	10,996.03
1397	²⁴⁰	"	6,645.75
6752	⁹²⁰	"	32,073.93

Cleveland Brass

Reverend Iron Works

934	¹¹⁴⁰	2 ⁵²	3,074.53
1679	¹⁵⁰⁰	"	5,526.61
2869	¹²⁴⁰	"	9,440.54
2516	¹¹⁶⁰	"	8,278.32
8000	"	"	26,320.00

Bellair Steel Co

2747	¹⁷²⁰	3 ⁷³	10,359.25
684	¹²⁴⁰	"	2,496.62
3432	⁶²⁰	"	12,855.87

Saw Mill

Bellair Steel Co

690	¹⁰⁰⁰	2 ⁵²	1,553.50
1224	¹²⁴⁰	"	2,755.84
236	¹⁶⁰	"	531.76
2151	⁸⁶⁰	"	4,840.60

L. E. Post

Lake Ore

Belfont Iron Works Co

831	1960	187	1,555.60.
911	960		1,704.37.
1898	1280		3,550.33.
866	1260		1,620.48.
<hr/>			
4508	980		8,430.78.
<hr/>			
5305	1400	400	21,222.50 ✓
954	40		3,816.07 ✓
2089	1040		8,357.85 ✓
1656	2000		6,603.58 ✓
<hr/>			
10,000			40,000.00

Calumet Iron & S Co

3008	1780	187	9,366.44.
1059	1340		1,981.45.
4525	1350		8,462.88.
2750	100		5,142.58.
1615	1580		3,021.34.
150	600		281.03 ✓
<hr/>			
15110			28,255.72
1548	1580	400	6,194.82 ✓
3252	1120		1,3010.00 ✓
1473	580		5,893.03 ✓
788	1980		3,155.53 ✓
774	640		3,097.14 ✓
<hr/>			
7837	1420		31,350.52

M A Hanna & Co

324	1540	187	607.16.
1786	1460		3,284.94.
3469	1240		6,488.06.
1703	2080		3,186.35.
3040	200		5,684.97.
<hr/>			
10294	2040		19,251.48
1787	410		7,121.70 ✓
2660			10,906.00 ✓
1607			6,588.70 ✓
3078			12,599.30 ✓
1603			6,572.30 ✓
2648			70,856.80 ✓
<hr/>			
18,328			54,644.80
1541			6,218.10
14869			60,962.90

Whelan Lumber Co

441	1710		826.10.
295	1400		552.82.
<hr/>			
437	870		1,378.92.

Strubbe Lumber Co

1425	1450	187	2,665.96.
469	2040		8,787.50.
<hr/>			
1,895	1250		3,544.71

Wellston Iron & S Co

140	500	187	2,622.21.
120	1800		2,259.4.
<hr/>			
261	60		488.15
<hr/>			
2250	1800	400	9,003.21 ✓
5082	1320		20,330.35 ✓
<hr/>			
11,521	1160		4,608.07 ✓
6,461	2160		25,847.85 ✓
4,197	220		16,788.89 ✓
3387	1520		13,550.71 ✓
1000			4,000.00 ✓
1548	2180		6,195.89 ✓
<hr/>			
35,450	1400		141,802.47

Pickand. Mathen & Co

1166	2060	400	4,667.68.
353	280		1,412.50 ✓
46	1960		187.50 ✓
2039	1140		8,158.03 ✓
1735			6,924.00 ✓
6299	340		25,196.60 ✓
<hr/>			
11,636	1300		46,576.31

Laurin Lumber Co

500.	400	2,000.00.
500		2,000.00.
<hr/>		
1000		4,000.00

Forest Lumber Ltd

20	2100	400	83.75 ✓
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Ohio Iron & Steel Co

3159	1000	400	12,637.85 ✓
2486	2110		9,947.76 ✓
1853	1330		7,414.39 ✓
<hr/>			
7500			30,000.00

Columbian I & S Co

2892	1620		11,570.89 ✓
404	540		1,616.96 ✓
2243	1080		8,973.92 ✓
<hr/>			
5,540	1000		22,161.77

Lake Erie ports
Lake Bass One

Actna Stand S&S Co

52447	1120	298	16233.55
292	1420		872.05
90	800		269.26
78	1300		225.24
5906	160		17,600.10

Chilton S&S Co

3575	285	10,188.75	
472	870	1,346.32	
4047	870	11,535.07	
3500	298	10,430.00	
3834	1240	525	21,008.77
5824	1210		21,743.93
1439	240		7843.13
785	160		4120.59
11,873	1210		64,716.42

Ohio S&S Co

17136	285	487.81	
793	870	2260.47	
1695	870	4831.19	
47116		1342.61	
3130	1200	8,922.05	
24	280	545	131.50
371	860		3114.04
257	170		13718.06
1917	920		10449.85
5030			27,413.48

Carroll S&S Co

2143	1480	285	6477.51
226	1260		675.11
4160	1850		12,399.25
2884	1820		8,605.28
26	2100		62.39
2038	1880		6,060.84
3624	40		10799.54
15127	1170		45,079.97

Laughlin S&S Co

2035	800	298	6065.38
3349	1140		10,070.81
15198	760		45,291.01
6176	200		18404.74
26789	460		79,831.94
6945	760	545	38,015.60
6321	1460		34,453.00
7918	650		42,154.55
8814	520		46,402.61
6367	1420		34,703.20
36097	380		196,729.36

Ohio Steel Co

2094	890	298	6,240.90
7970	1600		23,457.72
5287	620		15,666.68
3678	130		10,960.64
1099	1420		3,577.06
29,000			59,600.00

Andrew J. Mitchell

3118	820	525	16,994.50
5209	190		27,299.51
4119	890		22,450.71
10816	1830		58,951.72
1017	2120		5,527.81
6247	820		34,048.13
909	2040		49,800.01
31,238	1780		170,251.39

Clare Ice

2766	1560		15,023.99
3815	1620		20,795.40
1586	760		8,209.58
1201	360		6,524.32
9,279	1940		50,575.26

Martiny S&S Co

2315	100	525	12,616.99
364	1240		1,986.81
1780	1020		7,703.43
4,460	100		24,207.23

Whiskey S&S

323	2050	545	1,765.41
1056	1260		5,758.26
140	2200		768.35
1667	920		9,057.28
3003	980		18,368.73
3766	1460		20,528.25
9,958	2180		54,276.38

Core RR

47	920	525	258.38
----	-----	-----	--------

Am Steel Hoop Co

5707	1320	545	31,106.36
1849	740		8,988.85
4596	160		25,048.89
2424	2040		13,215.76
14,377	2020		78,359.56

Stewart S&S Co

454	1840	525	2,478.77
1020	2100		5,564.11
7960	1660		43,286.00
9436	1120		57,428.88

Ohio Wh

26	1360	525	79.29
----	------	-----	-------

951,394.81

L & Ports

Comrade

<u>L X R Master</u>				<u>Putnam</u>			
15217	1020	250	37,663.20	1006	1060	426	4,287.57
				489	1940		2,086.83
1435	100	433	6,216.61	2650	1400		11,291.66
1114	1140	"	4,828.05	1053	700		4,495.63
852	470	"	3,691.66	1045	1600		4,454.74
2425	1200		10,507.40	97	720		4,145.9
<hr/>				<hr/>			
21,044	1640		62,906.92	6,345	700		27,031.02
15,217	1020		37,663.20				
<hr/>							
5827	620		25,243.72				

Imperial

<u>L X R Master Xco</u>			
5430	400	208	11,158.99
12859	1390	387	49,848.83
<hr/>			
18,289	1790		61,002.82

Scotch
Elio 1
Ohio Press
Saw Mill

Cleveland Iron & Steel Co.

Deliveries of the

1900

Statement of LAKE ore for year ending Nov. 30, 1900.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1, 1899	4726	
Produced during year	<u>313089</u>	
Total Lake ore		317815
Bedford ore transferred to Lake		<u>2461</u>
Total		<u><u>320276</u></u>

Shipped

Pioneer Furnace	43157	
Carp Furnace	14224	
Antrim Iron Co.	30990	
Elk Rapids Iron Co.	10005	
Gaylord Iron Co.	2970	
Toledo	75185	
Cleveland	6876	
Ashtabula	24963	
Erie	33571	
Buffalo	15025	
Deseronto	<u>8349</u>	
Total Lake Ore		265315

Lake ore transferred to other ores.

Aug. 14	"ANGELINE" Salisbury	1504	
Sept. 22	"PEASE" "	320	
22	"PLANET" "	132	
23	"ANGELINE" "	1561	
27	"PIONEER" "	94	
Oct. 5	"FAY" "	290	
6	"RANNEY" "	956	
6	"PIONEER" "	639	
9	"ANGELINE" "	2373	
11	"PEASE" "	296	
11	"PLANET" "	339	
17	"MOWATT" "	254	
Nov. 2	"PIONEER" "	707	
4	"CENTURION" "	2059	
11	"FAY" "	400	
11	"RHODES" "	507	
24	"ANDASTE" "	820	
26	"PIONEER" "	220	
26	"CADILLAC" "	744	
Dec. 2	"FAY" "	<u>427</u>	
	Total as Salisbury		14642

In stock at Mine Nov. 30, 1900	<u>40319</u>
Total	<u><u>320276</u></u>

Statement of LAKE BESSEMER ore for year ending Nov. 30, 1900.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1, 1899	15242	
Produced during year	184115	
Total Lake Bessemer		199357
Other ores transferred to Lake Bess.		
Cleve.Hem.(Weekly Mine Report)	2334	
Salis. Bess. as Lake. Bess.	38590	
Note:- Salis. Bess. was all shipped from dock as Lake Bess.		
Alfred as Lake Bess.	40002	
Total other ores as Lake Bess.		80926
		<u>280283</u>
Shipped		
Pioneer Furnace	1891	
Illinois Steel Co.	50496	
Toledo	8317	
Lorain	16002	
Cleveland	75869	
Fairport	53050	
Ashtabula	52639	
Total as Lake Bess.		258264
Lost in FONTANA(St. Clair River)		2619
In stock at Mine Nov. 30, 1900		19400
Total		<u>280283</u>

✓

Statement of SCOTCH ore for year ending Nov. 30, 1900.

	<u>Tons</u>	<u>Tons</u>
In stock at Mine Dec. 1, 1899	812	
Produced during year	<u>74459</u>	
Total		<u><u>75271</u></u>
Shipped		
Sandusky	2690	
Cleveland	17177	
Fairport	2976	
Erie	<u>40688</u>	
Total as Scotch		63531
Scotch transferred to other ores		
Co. Cl. Shaft (Weekly Mine Report)	6027	
June 12 "CHOCTAW" Coarse Cliffs Shaft	767	
22 "FRONTENAC" " " "	1090	
July 5 "ANDASTE" " " "	<u>709</u>	
Total as other ores		8593
In stock at Mine Nov. 30, 1900		<u>3147</u>
Total		<u><u>75271</u></u>

Statement of MICHIGAMME ore for year ending Nov. 30, 1900.

	<u>Tons</u>	<u>Tons</u>
Produced during year		<u><u>19842</u></u>
Shipped		
Cleveland	17480	
Ashtabula	<u>1416</u>	
Total		18896
Bal. in Esc. Dock Nov. 30, 1900		198
In stock at Mine Nov. 30, 1900		<u>748</u>
Total		<u><u>19842</u></u>

THE CLEVELAND-CLIFFS IRON CO.

COMPARATIVE STATEMENT OF VESSEL OPERATIONS FOR SEASON OF 1900.

	FRESQUE ISLE	ANGELINE	CENTURION	PONTIAC	FRONTENAC	CADILLAC	CHOCTAW	ANDASTE	PIONEER & CHATTANOOGA	KALIYUGA & FONTANA	PEASE & PLANET	TOTALS.
NUMBER MILES TRAVELED	37,107	32,658	31,949	35,083	29,804	30,074	26,041	30,581	26,821	29,493	14,376	323,987
GROSS TONS FREIGHT CARRIED	173,060	155,745	111,128	84,410	73,923	63,814	63,736	75,314	109,270	85,300	34,739	1,030,499
AVERAGE RATE FREIGHT PER GROSS TON	\$1.1000	\$1.1000	\$1.0983	\$1.0252	\$.9635	\$ 1.0246	\$.8836	\$.8065	\$1.0949	\$1.0788	\$.8509	\$1.0337
AVERAGE COST TO CARRY PER GROSS TON FREIGHT	.4557	.4381	.6077	.5849	.5233	.5123	.5439	.5038	.5990	.6783	.6736	.5383
NET EARNINGS PER TON FREIGHT CARRIED	\$.6443	\$.6619	\$.4906	\$.4403	\$.4402	\$.5123	\$.3397	\$.3027	\$.4959	\$.4005	\$.1773	\$.4954
GROSS RECEIPTS	\$190,366.00	\$171,319.50	\$122,053.60	\$86,541.76	\$71,224.04	\$65,387.76	\$56,318.98	\$60,740.23	\$ 119,635.88	\$92,020.80	\$29,559.30	\$1,065,167.85
GROSS EXPENDITURES	78,856.61	68,243.88	67,528.44	49,372.53	38,685.52	32,694.04	34,667.80	37,944.88	65,455.37	57,858.36	23,398.54	554,706.77
NET EARNINGS	\$111,509.39	\$103,075.62	\$54,525.16	\$37,169.23	\$32,538.52	\$32,692.92	\$21,651.18	\$22,795.35	\$54,180.51	\$34,162.44	\$ 6,160.76	\$510,461.08
PERCENTAGE OF OPERATIONS TO EARNINGS	41.4	39.8	55.3	57.0	54.3	50.0	61.5	62.4	54.7	62.9	79.1	52.1
GROSS EARNINGS PER DAY	\$838.61	\$761.42	\$544.88	\$441.54	\$363.39	\$284.29	\$296.41	\$269.95	\$520.16	\$292.13	\$130.21	\$4,742.99
OPERATING EXPENSES PER DAY	347.38	303.31	301.47	251.90	197.38	142.15	182.46	168.64	284.59	183.68	103.07	2,466.03
NET EARNINGS PER DAY	\$491.23	\$458.11	\$243.41	\$189.64	\$166.01	\$142.14	\$113.95	\$101.31	\$235.57	\$108.45	\$ 27.14	\$2,276.96
EXPENSES PER DAY EXCLUDING CARGO HANDLING COSTS	\$174.70	\$150.85	\$131.81	\$161.48	\$127.71	\$ 86.68	\$126.19	\$116.98	\$170.49	\$125.53	\$ 82.08	\$1,514.50
AVERAGE TONS COAL CONSUMED PER MILE STEAMED	240/2000	201/2000	191/2000	209/2000	155/2000	107/2000	156/2000	151/2000	166/2000	160/2000	150/2000	
AVERAGE WAGES PAID PER DAY WHILE IN COMMISSION	\$35.11	\$34.10	\$32.87	\$32.87	\$29.62	\$27.61	\$30.21	\$30.78	\$40.83	\$34.43	\$28.13	
AVERAGE ORE CARGO FROM LAKE SUPERIOR	5968	6230	4448	3301	3085	2327	2823	2838	5663	4968	1626	

*Comparative Statement of
Vessel Operations for
Season of 1900*

Cleveland Iron Mining Co.

Surplus Account, Nov. 30th 1900

General Expense	✓ 14 244 19	Surplus, Nov 30, 1899	717 340 22
Legal "	✓ 254 45	Profit on Sales Dumbarton Pig Iron	✓ 52 064 91
General Interest	✓ 821 83	Expense Operating Webster Mine	✓ 14 571 15
Special Expense	✓ 16 50	House Rents (mines)	✓ 3 616 50
Personal Tax	✓ 215 60	Land " "	✓ 3 182 17
Operating Titau Mine	✓ 154 36	Discount & Interest (mines)	✓ 423 94
Ground Rents " "	✓ 125 00	H.O. Lot Rents	716.00
Operating Webster " "	✓ 29 142 30	Marquette " "	1137.50
" " H.O. ^{137 551.73} _{137 91}	✓ 137 675 64	Nebraska " "	1137.50
" " Lake " "	✓ 490 885 20	Misc. " "	1548.15
" " Hematite " "	✓ 27 04	Hematite " "	106.97
" " Volunteer " "	✓ 115 357 96	Benevolence " "	106.97
Repairs of Dwellings not rented	✓ 4 239 41	First Elev ^d Addr " "	4.00
" " Rented Houses	✓ 12 352 7	North Location " "	1110.00
Mineral Lands	✓ 5 15	Mines " "	959.00
Land Improvements (mines)	✓ 7 451 64	Form Rents	5090.41
Excess Ore (Hematite)	✓ 583 50	Rebates (mines)	2800.34
Ground Rents, Michiganumine Mine	✓ 4500 00	First Elev ^d Addr Lot Sales	7069.17
Operating " "	✓ 60 556 55	Interest + Discounts (Land Dept)	4628.46
Pumping Expense, Lake Argeline	✓ 605 54	Expense Operating Imperial Mine	104528
Lake Argeline Sub	✓ 6849 45	Str. Pontiac, Operating at	276.94
Taxes, Marquette Properties	✓ 41 17	" " Frontiac " "	805.29
Insurance " "	✓ 12 50	Deliveries, Cleve ^d #1 Art ^l	404.04
Explorations (mines)	✓ 3 232 98	" " Scotch " No.	4787 50
Special Expense " "	✓ 48 75	" " Lake " "	95 589 96
Operating Imperial Mine	✓ 77 811 00	" " Lake Bass " "	729 230 37
" " Land Dept	✓ 17 149 0	" " Hematite " "	1166 532 23
Royalty on Imperial Ore	✓ 9 148 51	" " Saw Mill " No.	1173 984 93
" " Volunteer " "	✓ 4 757 83	" " Cleve ^d Bass " No.	9452 70
+ Lake Freight on Hard Ore	✓ 69 175 70	" " Webster " "	39 152 77
" " " Michiganumine Ore	✓ 89 840 00	" " Michiganumine " "	37 129 66
" " " Lake Ore	✓ 16 248 00	" " Comrade " "	32 073 93
" " " "	✓ 39 389 80	" " Imperial " "	89 937 94
" " " "	✓ 375 691 50	Rebates & Bourses	✓ 23 873 16
Cargo Insurance " "	✓ 12 315 4	Old A's Collected	✓ 14 656 70
" " Hard " "	✓ 210 73	Standard Oil Co (Rebates)	✓ 488 81
" " Michiganumine Ore	✓ 61 79	Increase Hard Ore on hand	✓ 243
Rail Freight Hard " "	✓ 21 151 07	" " Lake " " "	128 177 25
" " Michiganumine " "	✓ 230 66 84	" " Volunteer " " "	152 813 70
" " " Webster " "	✓ 7 558 27	" " Imperial " " "	116 781 60
" " " Lake " "	✓ 56 425 0	Stock Michiganumine " " "	94 528 23
" " " "	✓ 53 50 10	Pass Checks, volunteer Hematite	✓ 59 070 75
Analysis Hard " "	✓ 110 50	Land Dept also Receivable	29
" " Michiganumine " "	✓ 115 00	Salt Right of Way	90
" " Lake " "	✓ 688 27		
Ore Purchased	✓ 335 358 79		
Lake Freight on Volunteer Ore	✓ 47 104 00		
Rail " " " "	✓ 19 031 36		
Analysis " " " "	✓ 74 50		
Forward	2004 537 97		3683 836 29

Forward	200453797	368383.649
Lake Freight Imperial Ore. ✓	4962800	2372677.06
Rail " " " ✓	1455828	131115973
Analysis " " ✓	10850	
Cargo Insurance " " ✓	13107	
" " Volunteer " ✓	12256	
Excess Deliveries Imperial Ore. ✓	628500	
" " Webster " ✓	417235	
Dividends Paid .	29313333 ✓	
	23726770.6	

1370.13
 1153 ✓
 13147

Cleveland Iron Mining Co.
 Analysis of Surplus etc
 Nov 30 1910

Iron Cliffs Co.

Mine Dept.

- 1 Cliffs Shaft cost sheet
- 2 Salisbury " "
- 3 Foster " "
- 4 Statement of Cliffs Shaft Ore
- 5 " " Salisbury "
- 6 Record of Delays, Cliffs Shaft & Mine
- 7 " " Salisbury "
- 8 Deliveries of ~~Cliffs Shaft~~ Ore
- 9 Analysis of Improvement & New Constrn
- 10 " " Mineral Lands & Explorations
- 11 Detail of Accts Payable
- 12 " " Receivable
- 13 Report of Operating Steam Shovel No 3
- 14 Stmt of Cost for Analysis, incldy. sampling & Crushing
- 15 Comp. Stmt of Taxes for Years 1900 & 1901
- 16 Record of Insurance on Mine Bldgs & Installings
- 17 Recapitulation from Accident Report.
- 18 Stmt of Amt Paid from Benefit & Suspense Funds, etc
- 19 Supply Mine Report, Week of Nov. 30, 1900

Land Dept.

- 20 Statement of Legal Expense
- 21 Stmt of Unpaid Vouchers.

Miscel.

- 22 Surplus Account.

SALISBURY MINE.

AVERAGE WAGES AND PRODUCT.

	SURFACE		UNDERGROUND		TOTAL	
	1900	1899	1900	1899	1900	1898
Product 160,635 tons						
Average No. of men working	43.	50.	143	123	186	178
Average wages per day	1.83	1.68	2.39	2.24	2.26	2.07
" " " Mo. of 25 days	45.75	42.00	59.75	56.00	56.50	51.75
" product per man per day	12.19	8.84	3.74	3.57	2.85	2.54
Labor Cost per ton	.150	.190	.639	.627	.783	.816
Difference in Labor Cost per ton	.040		.012			
Aver. Prod. breaking & tramming			5.36	5.11		
Aver. wages for Contractors			2.45	2.32		
" " " Miners			2.53			
" " " Trammers			2.10			
Amt. paid in increased wages	1975.80	617.94	6445.80	6889.59	10667.36	8058.60
Cost per ton on increased wages	.012	.004	.040	.051	.066	.059

STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

<u>KIND</u>	<u>QUANTITY</u>	<u>AVERAGE PRICE</u>	<u>AMOUNT</u>	<u>AMOUNT, 1899</u>
50% Powder	10790	.12	1294.80	1492.55
Fuse	37450	4.11	154.08	172.35
Caps	13500	5.00	67.37	73.08
			1516.25	1737.98
<u>COMPARATIVE.</u>			<u>1900</u>	<u>1899</u>
Total Product			160,635	136,519
Pounds powder per ton of ore			.067	.092
Cost per ton for explosives			.009	.013
Decreased cost per ton			.004	

SALISBURY MINE.

STATEMENT OF COMPARATIVE WAGES.

SURFACE:	<u>1900</u>	<u>1899</u>	<u>Increase for 1900.</u>
Total Number of Days	13172	15448.5	
Average rate	1.83	1.68	.15 (8.9%)
Amount	24046.20	25888.53	1975.80
UNDERGROUND:			
Total Number of Days	42972	38275.5	
Average rate	2.39	2.24	.15 (6.7%)
Total Amount	102598.52	85570.22	6445.80
Total Days	56144	53724	
Average Rate	2.26	2.07	.19 (9.2%)
Grand Total Amount	126644.72	111458.75	10667.36

SALISBURY MINE.

STATEMENT OF TIMBER USED FOR MINING ORE ,1900.

STULL TIMBER.

Size	Lineal Foot	Average per foot	Amount	Amt. Last Yr.
6 to 8"	11908	.018	217.80	
8 to 10"	36470	.027	982.30	752.46
10 to 12"	35692	.040	1437.45	1046.74
12 to 14"	20554	.062	1278.01	826.24
14 to 16"	6586	.088	583.98	1846.96
16 to 18"	98	.080	7.84	158.72
Total	111308	.0405	4507.39	4631.12
" 1899	118142	.039	4631.12	3108.41

LAGGING.

5 ft.	167,500	51¢ per 100 ft.	857.74
7 ft.	29,000	.504 " " "	146.12
Poles	<u>51,038</u>	<u>.87</u>	<u>444.33</u>
Total	247,538	.58	\$1448.19
" 1899	279,009	.46	1284.32
Cost for Timber Lagging 1900			5955.57

	<u>1900</u>	<u>1899</u>
Total Product	160635	136519
Ft. of timber per ton of ore	.69	.86
" " lagging " " " "	1.54	2.04
" " " " foot of stulls	2.22	2.36
Cost per ton for timber & lagging	.037	.048
Equivalent of Stull Timber to Brd Measure	310812	460006
Feet board measure per ton of ore	1.93	3.37

625 Lineal feet = 1 cord 5' Lagging

SALISBURY MINE.

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

12th Level	3000 tons
13th "	3000 "
14th "	14000 "
16th "	2000 "
17th	<u>183000</u> "
Total	205000 "

By comparing the ore hoisted and the estimate above with the estimate of ore in sight, it will be seen that with the exception of the 16th Level, the estimates have been exceeded in every case.

As stated in the last annual report, it is impossible to make accurate estimates of the ore remaining in the old levels, as much that is mined comes from the backs of the old stopes which are not in sight, and there is no way of knowing how much can be run from them.

The 5th and 8th Levels have both been exhausted.

The 16th Level has fallen short of the estimate, the vein containing a much larger quantity of rock than was expected when the estimate was made last year. The estimate of 2000 tons on the 16th Level however is only the ore that will come from that level, and not the eight feet which has been left above the sill floor and has been included in the estimate of the 17th level.

Following is the location of the ore estimated:

12th Level	Pillar east of air shaft.
13th "	Pillars east of No. 4 Shaft.
14th "	No.4 Shaft Pillars and two small pillars east.
16th "	Sill floor, east end, on footwall.
17th "	Entire ore body between 16th and 17th Levels, and 20,000 tons on the 16th which will be mined from the 17th Level.

Work on the different levels during the year has been as follows:

5th LEVEL.

No. 1 Shaft pillar referred to in the last annual report has been mined out.

SALISBURY MINE.

The ore obtained from this level exceeded the estimate of last year by 1500 tons.

8th LEVEL.

All the ore on this level is exhausted. The estimate of ore in sight last year and the amount mined during the past season were very close, the output exceeding the estimate by only 534 tons.

In January an exploring drift was started on this level, to reach the ore shown up by Diamond Drill Holes J-1 and G-2, which are located at the west side of the diorite bluff beyond the Barn.

Starting from the shaft, the drift was driven 100' southwest until it reached the ore formation and was then continued west along the footwall. The total length of the drift is 622' and the entire distance has been in rock. The face of the drift is now opposite Diamond Drill Hole G-2, but 50' south of it. As the drift has been following the diorite, it seems probable that it is only a dike, and not the true foot, and that there is an ore formation north of it. It is proposed to continue to drift to Diamond Drill Hole J-1, and if no ore is found, to cross-cut the formation. The absence of ore on this level would not be conclusive proof that it did not occur at greater depth, and in case it is not found, a second drift should be started from the 12th Level.

12th LEVEL.

The only work done on this level has been the removal of the No. 4 shaft pillar referred to in the last annual report. It is now proposed to drift east from the air shaft to reach a pillar which is estimated to contain 3000 tons.

13th LEVEL.

No drifting has been done on this level during the year. The work consisted of mining No. 4 shaft pillar and a few small pillars east of the shaft.

14th LEVEL.

Two raises have been put up east of No. 4 shaft to reach the ore on the 13th Level. Practically no mining has been done on this level, as the ore cannot safely be removed until work on the 13th is finished.

15th Level is exhausted.

16th LEVEL.

All the ore that can be economically taken through this level has been mined,

SALISBURY MINE.

excepting the 2000 tons referred to in the estimate. This level has been very disappointing, a much larger amount of rock being met with than was expected.

17th LEVEL.

This level has been open during the year and 48,365 tons of the product came from here. In addition to the ore-drifting, 570' of rock-drifting has been done, Owing to the extremely soft nature of the ore, it was thought advisable to run a drift in the footwall parallel with the ore deposit, as it could be more readily maintained, and afforded an opportunity of taking the water from the ore body, and reducing the amount of moisture in the product.

Eleven raises have been put up to within 15' of the level above, and a sublevel opened at this point. All the ore hoisted from this level was mined from this sublevel, excepting that which came from the main drifts.

A second sublevel is now being opened 20' below the first. By referring to the map it will be seen that while the ore body on this level is practically the same size as that on the 16th level, it has increased in width to the west, and correspondingly narrowed to the east. The hanging on the west drift is very flat, the angle of dip being only 24 degrees. The angle of the hanging in the face of the drift east of this is 45 degrees, while the hanging in the face of the extreme east drift is slightly overturned. The angle of the foot has not changed, having a uniform dip of 50 deg. While the change in the angle of the hanging may be only local, it is, to say the least, an encouraging indication and leads to the hope that the whole ore body will extend much further to the southwest than was originally anticipated. While it has not been proven by development work, everything points to the conclusion that the ore that ~~the ore~~ extends much further west than on the 16th level, and continues under the diorite bluff. This possibility was suggested in the annual report for 1898.

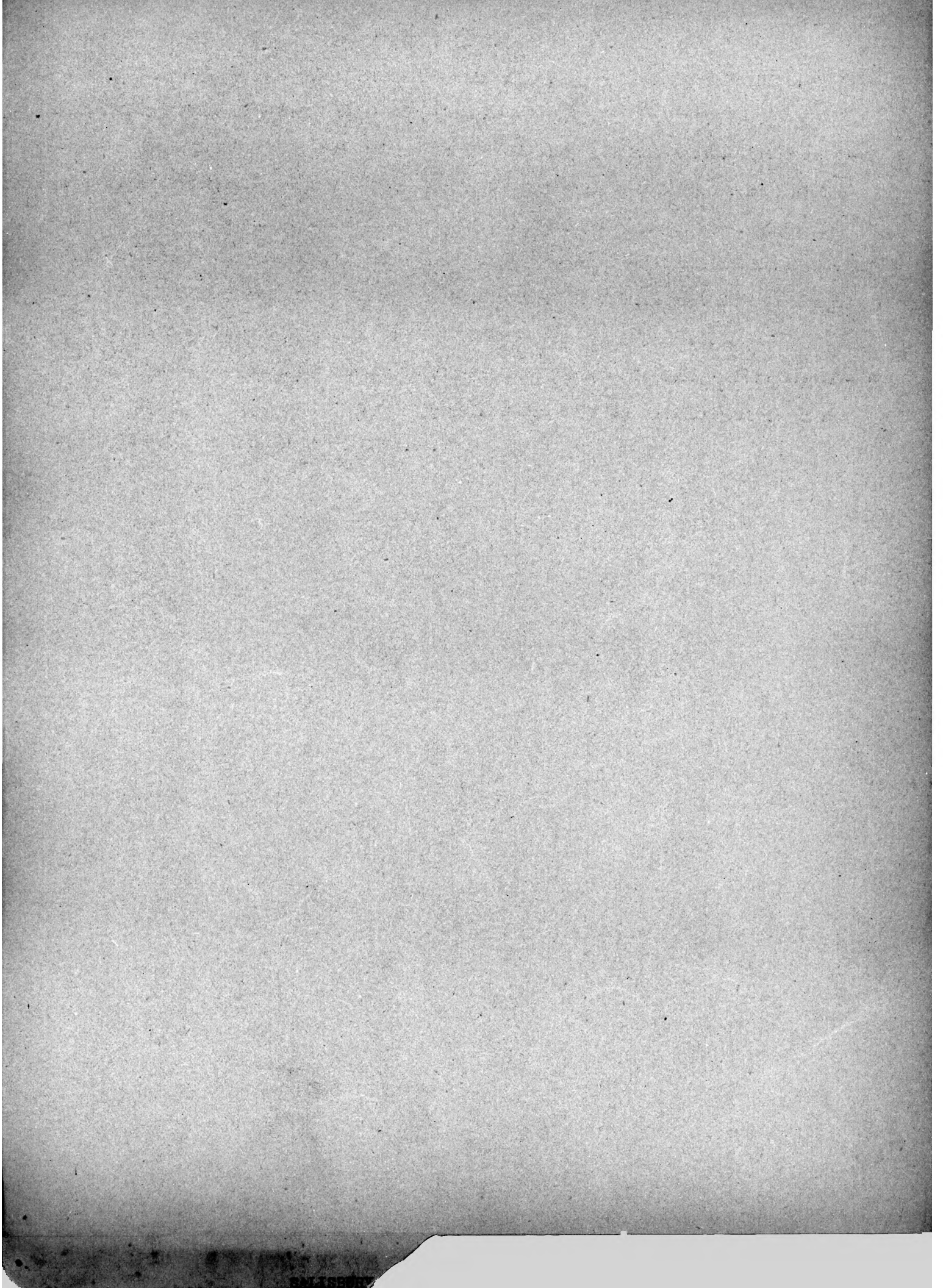
A raise has been put up from the east end of the rock drift to the 16th Level. Through this the water from the upper levels of the old mine is carried to the bottom, and thus prevents its circulating through the ore body, as has been the case in all the levels above. This not only decreases the moisture in the product, but by draining the ore, the tendency to crush is very much lessened. This raise also provides means of es-

SALISBURY MINE.

cape for the men in case of accident to the main shaft, and in connection with No. 4 shaft makes a return ventilation for this level.

The shaft has been sunk 35' and is now 61' below the 17th Level. After reaching a depth of 85', it is proposed to open out the plat for the 18th Level, so that the cross-cut to the ore can be driven at the same time the shaft is being sunk. Owing to the small size of the ore body, it will be necessary to open up at least one level each year, and for this reason sinking should be continuous. It is also desirable to always have a level open below the one being worked to drain the ore body above.

During the year 1200 yards of earth and 1600 yards of loose rock have been removed to make room for the new stockpile ground. A new bent has been erected and the ground planked at a total cost of \$1865.34.



TILDEN MINE.

AVERAGE ANALYSIS OF ORE MINED IN 1900.

	<u>Iron</u>	<u>Phos.</u>
Tilden Silica	43.50	.036

ORE SHIPMENTS FOR 1900.

	<u>Pocket</u>	<u>Last Year</u>
Tilden Silica	15325	27345

AVERAGE ANALYSIS OF SHIPMENTS.

	<u>Iron</u>	<u>Phos-</u>
Tilden Silica	41.32	.031

ORE STATEMENT NOVEMBER 30TH, 1900.

	<u>Pocket</u>	<u>Last Year</u>
Output	15325	27345
Shipments	<u>15325</u>	<u>27345</u>
Bal. in stock Nov. 30, 1900	0	0

EXPLOSIVES USED FOR BREAKING ORE.

<u>KIND</u>	<u>QUANTITY</u>	<u>AVER. RATE</u>	<u>AMOUNT</u>	<u>AMOUNT 1899</u>
40% Powder	5950#	.105	624.75	750.75
Black Powder	1575#	.057	89.78	129.69
Battery Wire	58#	.240	13.92	14.52
Fuse	2100'	4.25 per M Ft.	8.94	5.71
Exploders	550	28.31 " "	15.57	14.16
Caps	900	5.00	4.50	1.95
			<u>\$757.48</u>	<u>\$916.78</u>
Tons of ore produced			<u>1900</u> 15325	<u>1899</u> 27345
Pounds powder per ton of ore			.491#	.344
Cost per ton for explosives			.049¢	.033
Increase cost per ton			.016	.005
			(over '99)	(over '98)

TILDEN MINE.

AVERAGE WAGES AND PRODUCT.

	<u>SURFACE</u>	<u>UNDERGROUND</u>	<u>TOTAL</u>	
			<u>1900</u>	<u>1899</u>
Average No. of men working			26.	22.
" Wages per day			1.96	1.78
" " " mo. of 25 days			49.00	44.50
" Product per man per day			4.85	6.27
Labor cost per ton			4.05	.284
Difference in Labor Cost per ton			.121	.064
Average Product breaking and tramming			10.42	11.41
Average wages for contractors			2.22	1.78
Amount paid in, increased wages.			568.80	479.54
Cost per ton on increased wages			.037	.017

COMPARATIVE WAGES.

	<u>1900</u>	<u>1899</u>	<u>Inc. for 1900</u>
Total Number of Days	3160	4359	
Average rate per day	1.96	1.78	.18 (10%)
Total Amount Paid	6209.56	7775.40	568.80

STATEMENT OF MINING COST.

	<u>1900</u>	<u>1899</u>
Product	15325	27345
General Expense	.011	.013
Maintenance	.005	.043
Mining Expense	.550	.331
Cost of Production	.566	.387
Depreciation	.001	
Total Cost	.565	.387
Increased wages over 1899	.037	
Comparative on equal wage basis Increase	.528 .141	

TILDEN MINE.

In the last annual report it was recommended that the ground west of the open pit be tested with a Diamond Drill and if sufficient ore was discovered, that a sinking stope be put down and the ore developed as at the Winthrop Mine. The ground between the railroad and the open pit has since that time been thoroughly tested with a drill, the results of which are given in the book of maps.

It is shown that the soap rock dikes increase in width going west, and that the ore is not only narrow, but has very little depth. For this reason the plan proposed will have to be abandoned.

The ground to the west of the present open pit has been stripped for a distance of 160'. The point at which stripping stopped is only 4' above the level of the open pit and beyond this it will be impossible to mine the ore for anything like a reasonable price.

Next year will practically exhaust the ore that can be cheaply mined, and if there is a demand for this class of material in the future, it will be necessary to either open up the North Tilden or the Ogden Mine.

Owing to the small quantity of ore that was sold, only the day shift was worked, and as the mine was not worked to its full capacity, the cost of the ore was considerably higher than in 1899.

The stripping for next year's product was also a large item of the cost, but should be eliminated in comparing the cost with that of the previous year.

FITCH MINE.

This mine was abandoned in September, 1893.

LEASES.

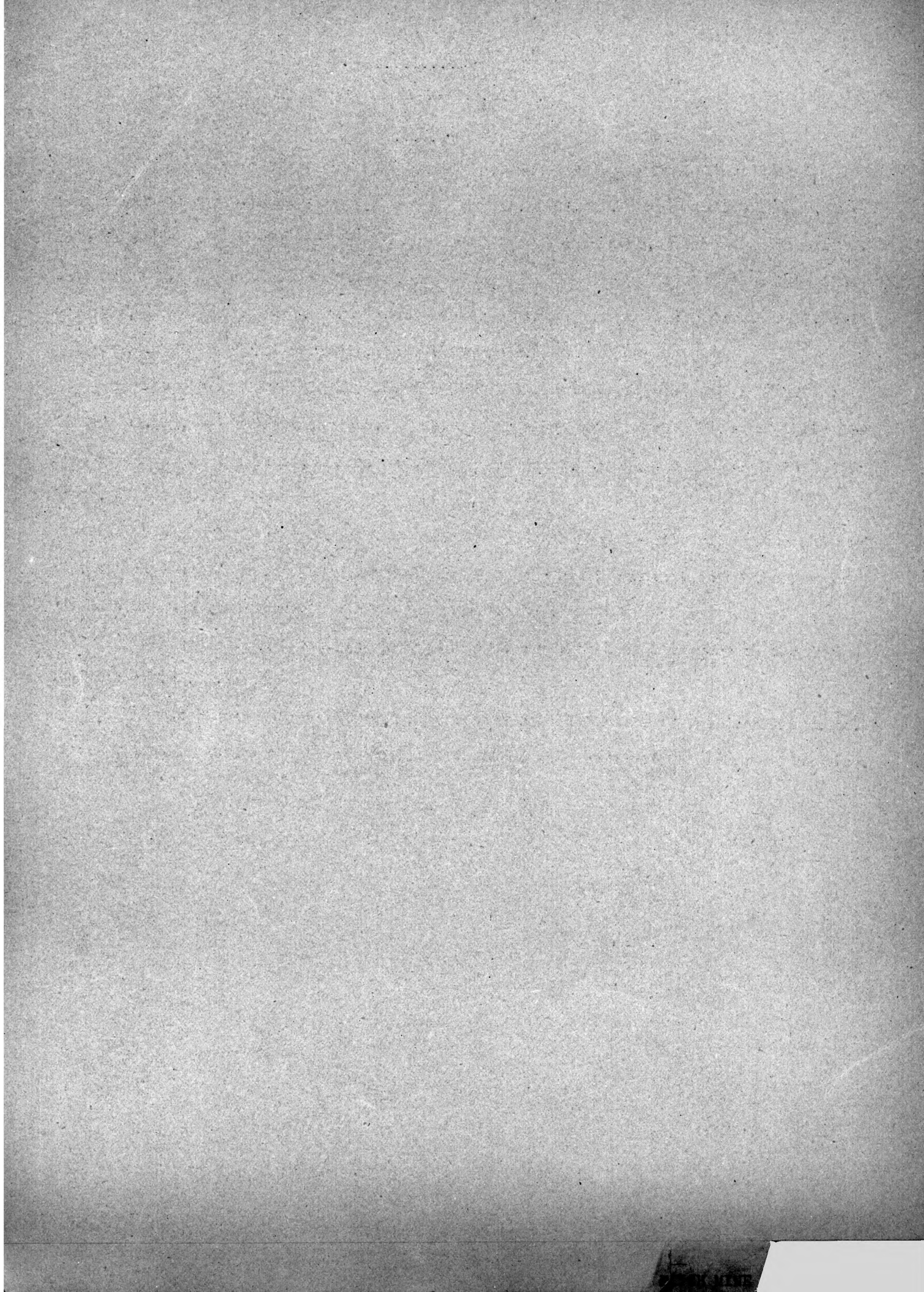
A small amount of development work has been done by Jones & O'Brien on the land that they hold under lease on the E $\frac{1}{2}$ of SW $\frac{1}{4}$ of Sec. 19/47/26. Early in the season, they made an effort to get the Northwestern railroad to put in a spur, but were unsuccessful. This prevented their making any sales, and after drifting through the diorite into the ore body, they stopped work. They have however continued to pay their ground rent, and anticipate, if the market warrants, to build a spur.

The Jackson Iron Company have continued their explorations on the N $\frac{1}{2}$ of the SW $\frac{1}{4}$ of Sec. 12, but without success. While no formal notice has been given of their desire to terminate the lease, I have understood from Capt. Mitchell that they intended to do so.

The shaft which was sunk last year has been allowed to fill with water and work at that point abandoned. Before work closed down a careful examination of the property was made and the results recorded for future reference.

The book of maps contains a drawing of the workings as they were on the day the mine closed.

No exploring has been done during the year on the lands of the Iron Cliffs Co. beyond the small amount of diamond drilling that has been referred to at the Tilden Mine.



PIONEER EXPLORATIONS.

Under date of Dec. 19th, you authorized me to commence at once exploring on the lands of the Negaunee Iron Co. covered by the Ninety Nine Year Lease. Four portable houses were immediately built and on the 26th we started work on the following descriptions:

The E $\frac{1}{2}$ of the SW $\frac{1}{4}$ and the S $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Section 6; the N $\frac{1}{2}$ of the NE $\frac{1}{4}$ of Sec. 7; the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$, the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$, and the S $\frac{1}{2}$ of the NW $\frac{1}{4}$ of Sec. 8, all in township 47 north of range 26 west.

I was advised by Mr. Hayden that it would be necessary to put a gang of three men on each one of the 40s and that the exploring must be conducted in all respects as if it were held under the usual form of option. No preparations had been made for diamond drilling, so that all that could be done was test-pitting on the high ground. I realized at the time, and so stated to you by letter, that no results could be expected from this mode of exploration, as the ore, if any existed, would be found at considerable depth.

In prosecuting the work five shafts were started, marked on the maps as Nos 1, 2, 3, 4, and 5. The first was sunk 69', the second 35', the third 35', the fourth 49', and the 5th 69'. None of these shafts developed any merchantable ore and were only sunk to keep the men at work on certain 40s and hold the land.

Diamond Drilling was begun in January on the SE of the SW $\frac{1}{4}$ of Sec. 6 at "A" Hole. This was driven to a depth of 1570'; the first 1297' in jasper, the balance in very lean ore. Under the advice of Mr. Smyth this hole was abandoned, as from his examination of the "BLUE" Mine and the outcrops, he estimated that the footwall would not be struck under 2500', and there was very little chance of finding ore.

The second hole "B" was put down near the old Foley Shaft on the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 6. Several Diamond Drill Holes had been put down in this neighborhood many years before, and it was reported that they all struck ore within 300'. This hole however was sunk 520' and no ore was discovered, and the hole stopped in jasper.

The third hole was put down in the bottom of the old Tracey shaft on the NE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Sec. 8. The first 351' in jasper, the second 303' in very lean ore.

This hole was also stopped by the advice of Mr. Smyth and the drill moved to the NE corner of the same description. This location was selected on account of its

PIONEER EXPLORATIONS.

being near the outcrop, and if any ore existed, it would be found at a reasonable depth.

The fourth hole was put down on the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Sec. 8 to a depth of 1060'; the first 829' in jasper, then 134' in ore which would average about 52% in iron, but of Non-Bessemer grade, the balance in slate.

Two drills are now working on Sec. 8, the locations of which are shown on the maps. None of the explorations have so far shown any merchantable ore, but Mr. Smyth is confident that we will strike a parallel lens to the "BLUE" on the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Sec. 8.

In June our attorneys came to the conclusion that we could hold the lands by keeping one gang of men working on the different descriptions, and since that time only three men have been at work. Finally in November, they thought that the services of these men could be dispensed with, and now the only work being done is with two diamond drills.

As soon as "F" hole is completed, the drill at this point will be taken in, and the exploring continued with one drill.

The results of our operations so far have been very disappointing, but there is every reason to believe that with more drilling, a large body of ore will be shown up.

PIONEER IRON CO.

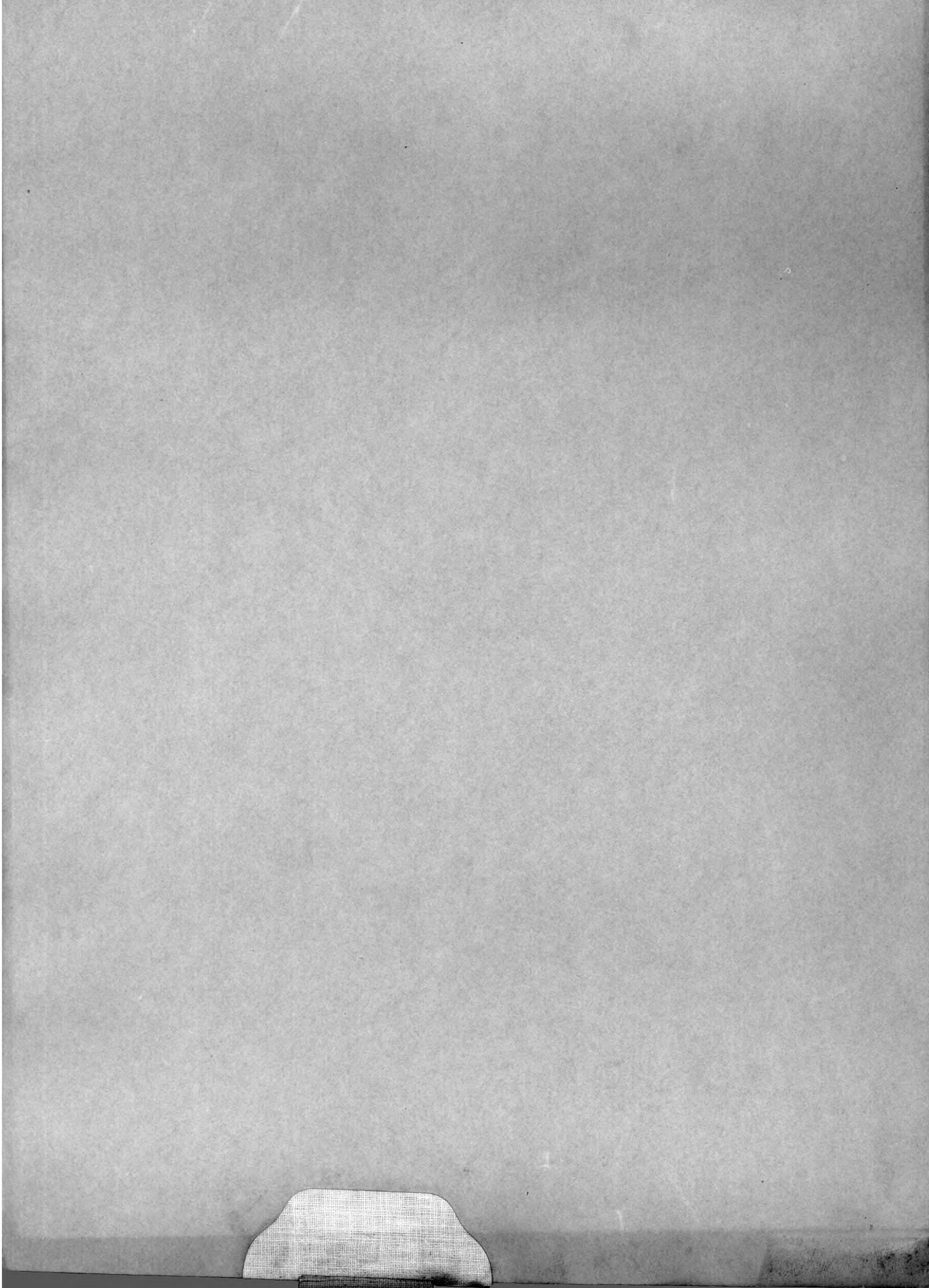
Statement of Expense of Explorations and Diamond Drilling for 1900.

LABOR AND SUPPLIES.	TOTALS TO DATE.
Mining Captain	1536.31
General Equipment	87.45
Explorations	
Sec. 6 SW of SE	2366.86
SE of SE	18.42
Sec. 7 NE of NE	1626.61
SW of NW	28.00
NW of NE	1711.14
SE of NW	38.50
NE of NW	63.09
NW of NW	38.75
Sec. 8 NW of NW	1327.75
NE of NW	2275.38
SE of NW	304.52
SW of NW	357.65
NE of SW	31.75
Total Explorations	11812.18
Total Diamond Drilling	6763.74
Total Expense for Labor	18575.92
Supplies Explorations	5225.61
Supplies Diamond Drilling	13055.73
General Expense Accounts	1591.07
Total Expense for Supplies	19872.41
Total Expense for Labor and Supplies	38448.33

*DD cost sheets
for each hole*

Respectfully submitted
W. W. Duncan

Agk



INDEX.

OLD BARNUM MINE.....	1
Statement of ore mined during year.....	1
CLIFFS SHAFT MINE.....	2
Ore mined from the different levels.....	2
Average Analysis of Mine Samples.....	2-15
Ore Shipments.....	2
Average Analysis of Shipments.....	3
Ore Statement November 30th, 1900.....	3
Statement of Mining Cost.....	4
Average Wages and Product.....	5
Cost of Explosives used.....	5
Statement of Comparative Wages.....	6
WORK IN DIFFERENT PARTS OF THE MINE.....	7-12
Estimate of Ore in sight.....	13
Crusher Plant Statement.....	14
Fatal Accidents.....	15
SALISBURY MINE.....	16-24
Ore Mined from the different levels.....	16
Average Analysis of Mine Samples.....	16
Ore Shipments for 1900.....	16
Average Analysis of Shipments.....	16
Ore Statement November 30th, 1900.....	17
Statement of Mining Cost.....	17
Average Wages and Product.....	18
Statement of Explosives used for breaking ore.....	18
Statement of Comparative Wages.....	19
Statement of Timber used for mining ore.....	20
Statement of ore in sight.....	21
Location of ore estimated.....	21
Work on the different levels.....	22-24
FOSTER MINE.....	25
Ore Statement.....	25
Ore Shipments for 1900.....	25.....
Average Analysis of Shipments	25
TILDEN MINE.....	26-28
Average Analysis of Ore Mined.....	26
Ore Shipments.....	26
Average Analysis of Shipments.....	26
Ore Statement.....	26
Explosives used for breaking ore.....	26
Average Wages and Product.....	27
Comparative Wages.....	27
Statement of Mining Cost.....	27
Developments.....	28
FITCH MINE.....	29
PIONEER EXPLORATIONS.....	30-32
Statement of Explorations and Diamond Drilling for 1900.....	32

IRON CLIFFS COMPANY.

DEPARTMENT OF MINES AND MINERALS.

ISHPEMING, MICH.

ANNUAL REPORT FOR THE YEAR ENDING NOVEMBER 30TH, 1900.

W. G. Mather, Esq., Pres.,

Iron Cliffs Company,

Cleveland, Ohio.

Dear Sir,-

The closing statements, copy of inventory, and book of maps have been sent you. Following is the report of the work done during the year, and the present condition of the property:

OLD BARNUM MINE.

This mine was closed March 1st, 1891, and has since remained idle. Under the contract of January 18, 1896, the Lake Superior Iron Company has mined during the past year the following amount of ore:

1899	December	520 tons
1900	January	341 "
	February	232 "
	March	260 "
	April	638 "
	May	658 "
	June	<u>463</u> "
	Total	3112 "

No work has been done since June, and the Lake Superior Iron Co., through their Agent, Mr. Johnston, explains that the ore was running so low in iron that it would not pay them to mine it, and that they are not likely to do anything the coming year, although they may take a small amount of ore from the 560' sublevel on our side of the line.

You will notice in the book of maps a plat of the Barnum Mine showing the adjacent workings of the Lake Superior Iron Co. and the stopes that have been mined on the Barnum side of the line. There is still 200' of unexplored territory between the 560' sublevel and the bottom of the old Barnum workings. It is not likely however that

OLD BARNUM MINE.

the Lake Superior Iron Co. will do any exploring on our side of the line.

It is recommended that during the coming year a very careful investigation be made of the possibilities of this territory, and if the conditions warrant, that arrangements be made to do some Diamond Drilling in the under ground workings of the Lake Superior Iron Co. A very interesting cross-section accompanies the map of the Barnum Mine.

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CLIFFS SHAFT MINE.

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

<u>LEVEL</u>	<u>"A" SHAFT</u>	<u>"B" SHAFT</u>	<u>TOTAL</u>
1st	50347	35331	85678
2nd	43612	27135	70747
3rd	36135	35577	71712
4th	3606	11791	15397
5th	19331		19331
6th	<u>1465</u>	<u> </u>	<u>1465</u>
	154496	109834	264330

Daily analyses of stopes was stopped early in the year, as the ore was running uniformly and it was not thought necessary to continue the expense of the Daily Analyses.

AVERAGE ANALYSIS OF MINE SAMPLES FOR 1900.

	<u>Iron</u>	<u>Phos.</u>
Cliffs Shaft Ore, Crushed	61.63	.109
" " " , Coarse	62.98	.101

ORE SHIPMENTS FOR 1900.

	<u>POCKET</u>	<u>STOCK PILE</u>	<u>TOTAL</u> ⁷⁰	<u>TOTAL LAST YR.</u>
Coarse Ore	42513		42513	19748
Crushed Ore	108979	37444	146423	240187
Total	151492 ✓	37444 ✓	188936	259935

CLIFFS SHAFT MINE.

AVERAGE ANALYSIS OF SHIPMENTS FOR YEAR 1900.

	<u>Iron</u>	<u>Phos.</u>
Cliffs Shaft Ore, Crushed	60.70	
" " " , Coarse	^{63.64} 59.22	

ORE STATEMENT, NOVEMBER 30TH, 1900.

		<u>LAST YEAR</u>
On hand Dec. 1st, 1899	200 tons	7743 tons
Output for year	264330 "	252161 "
Overrun on old excess ore	<u> </u>	<u>231</u> "
Total	264530 "	260135 "
Shipments	<u>188936</u> "	<u>259935</u> "
Bal. in stock Nov. 30th, 1900	75594 "	200 "

CLIFFS SHAFT MINE.

The cost of mining 264,330 tons of ore this year is as follows:

	1900	1899	Increase	Decrease
Product	264,330	252,161	12,169	
General Expense	.090	.087	.003	
Maintenance	.032	.035		.003
Mining Exp, incl. crushing	.906	.790	.116	
Cost of Production	1.028	.912	.116	
Increase, 1900	.116			
Exploratory		.030		
<u>DEPRECIATION.</u>				
Inventory	.006	.009		.003
Improvements	.002	.004		.002
New Construction	.042	.042		
Steam Shovel No. 2 (#3)	.003	.003		
Reopening Mine	.054	.057		.003
Total	.107	.115		.008
Less Credits	.001	.002		.001
Total Depreciation	.106	.113		.007
Cost on Stock Pile	1.134	1.055	.079	
Loading and shipping	.015	.021	.006	.006
Total Cost	1.149	1.076	.073	
Average Wages 2.077-1.91 plus 1.67				
Increased wages over 1899 per ton	.060			
Comparative Total	1.089	1.022	.067	

This shows an increase in the Cost of Production of 11.6¢ over the previous year. Of this increase 6¢ was due to an advance in wages, while the balance was distributed between the Increased Drifting and Sinking, and the higher cost of supplies.

New drills near work?

CLIFFS SHAFT MINE.

AVERAGE WAGES AND PRODUCT.

	SURFACE		UNDERGROUND		TOTAL	
	1900	1899	1900	1899	1900	1899
Average no. of men working	79.	87.	242.	225.	321.	312.
Average wages per day	1.83	1.70	2.16	1.99	2.03	1.91
Aver. wages per mo. 25 days	45.75	42.50	54.00	49.75	52.00	47.75
Aver. product per man per da.	11.06	9.49	3.69	3.85	2.77	2.74
Labor cost per ton	.165	.178	.585	.519	.751	.698
Difference in Labor Cost per ton	.013		.066		.053	
Aver. Prod. breaking & tramming			5.21	5.15		
Aver. wages for Contractors			2.23	2.00		
" " " Miners			2.37	2.10		
" " " Trammers			1.95	1.75		
Amt. paid in inc. wages	3105.44	2650.40	12183.22	10469.36	16244.18	13790.63
Cost per ton on inc. wages	.012	.01	.046	.042	.062	.054

COST OF EXPLOSIVES USED FOR BREAKING ORE.

<u>KIND</u>	<u>QUANTITY</u>	<u>AVG. PRICE</u>	<u>AMOUNT</u>	<u>AMOUNT, 1899</u>
50% Powder	110,600#	.12	13272.00	12402.25
D.T. Fuse	125,650'	4.25	534.03	364.62
Caps	40,150	5.00	200.75	149.20
Elec. Fuse	7,350	28.53	209.70	336.11
Wire	406#	.26/	<u>105.90</u>	<u>167.52</u>
Total			14322.38	13469.70
<u>COMPARATIVE</u>			<u>1900</u>	<u>1899</u>
Total Product			264,330	252,161
Pounds powder per ton of ore			.42	.41
Cost per ton for Explosives			.054	.053
Increased cost per ton			.001	.006

The slight increase in the pounds of powder per ton of ore is due to the large amount of drifting and sinking.

GILFTS SHAFT MINE.

STATEMENT OF COMPARATIVE WAGES.

	1900	1899	INCREASE 1900
SURFACE			
Total No. of Days	23,887 $\frac{3}{4}$	26,504	
Average Rate	1.83	1.70	.13 (7.6%)
Amount	43,784.16	44,937.51	3,105.44
UNDERGROUND			
Total Number of Days	71,666	65,433 $\frac{1}{2}$	
Average Rate	2.16	1.99	.17 (8.5%)
Amount	154,718.54	130,500.68	12,183.22
Total Days	95,553 $\frac{3}{4}$	91,937 $\frac{1}{2}$	3,616 $\frac{1}{2}$
Average Rate	2.08	1.91	.17 (8.9%)
Total Amount	198,502.70	175,438.19	16,244.18

CLIFFS SHAFT MINE.

The work in the different parts of the mine has been as follows:(For convenience of description, the number of each stope has been marked on the maps, and reference will be made to them by number rather than by location.

SUBLEVEL ABOVE 1ST LEVEL.

"A" SHAFT.

The raise at No. 9 referred to in the last annual report struck the hanging at a height of 50'. 10' below this a drift was driven north 40' in ore and then 50' in rock, but without striking ore beyond. As there was no change in the condition of the ground, it was not thought advisable to continue the drift.

A second drift was driven along the footwall west and struck the jasper 125' from the raise. The drift was then turned south and the hanging encountered 40' beyond. East of the raise the hanging is pitching so rapidly to the east that the ore is cut out only a few feet beyond the top of the raise.

This sublevel shows an ore body only 125' long by 40' wide. During the year all the ore has been removed, except about 20' of back west of the raise. At present one gang is at work at No. 4 stoping south.

1ST SUBLEVEL.

"B" SHAFT.

The sublevel referred to in the last annual report as being 75' long and 20' wide has been developed during the year, and now shows a length of 350' and an average width of 75'. At 25, a stope is being carried along the foot 20' wide and 18' high, with ore to the north. The east end of this sublevel is in soaprock, and the west end in mixed ore and jasper. It is not believed that the regular footwall has been struck, and it is proposed to test the ground to the south.

2ND SUBLEVEL.

"B" SHAFT.

A second sublevel has been opened 50' above the first. A stope has been carried 23' wide and 20' high, 125' to the west, all in ore. One gang at 25 is now stoping west. No work has been done to the east and the ore has not been tested either north or south. It is believed that the ore on this sublevel is wider than that on the level below.

CLIFFS SHAFT MINE.

There is still ore in the back, and there is a good chance for another sublevel above this.

1ST LEVEL.

"A" SHAFT.

At No. 9 the main drift has been extended 175' The stope is being carried along the foot 20' wide and 20' high, and has ore on the south. The breast is still in ore. This ore is separated from the main ore body by a soaprock dike only 2' thick. The stope now being worked will soon be holed into the old main drift. There will be room on this drift for three raises to take the ore above.

The breast stope at No. 5 referred to last year was extended west 50' and stopped in jasper. There is still ore in the back however.

The men on this contract have been moved to the north and a raise put up 40' to the hanging. They have now started to stope west from the top of this raise. On the south side of the main south drift, a cross-cut was driven and struck the ore at 50' A drift stope was then carried in ore 75' to the hanging. From this point it was turned east and at present is in 125' On account of the hardness of the ore, the stope is being carried 25' wide, and even with this width there is still ore to the north.

No. 10 is still in ore. This is entirely new ground and is likely to continue for 150' The ground to the west has not been tested, but shows the same width of ore in the face as has been developed to the east.

At the extreme northeast of this level, the stope north was accidentally carried across the Lake Superior line, and 1310 tons were mined before the error was discovered. This trespass was promptly reported to the officials of the Lake Superior Iron Company. At the same time a proposition was made them to lease us what ore they had north of our line on the same terms as the Barnum Lease. Although the matter has been called to Mr. Johnston's attention several times, no reply has been received from him.

The east drift was extended 50' and was cut off by the hanging. 50' west of the face of this drift, a second drift was put north 50' and struck the hanging. This demonstrates that the Lake Superior Iron Company cannot have a very large body of ore on their side of the line.

At 27 the ore laying on the foot is now being mined.

CLIFFS SHAFT MINE.

1ST LEVEL.

"B" SHAFT.

The northwest drift has been extended 150' west. First 50' in ore, then 15' in jasper, and the balance in ore. At 15, the face of this drift, the ore is about 17' wide and seems to be increasing gradually in width. This is further west than any of the other workings of this shaft, and encourages the hope that the ore body extends further west than any former development have promise of.

The stope referred to in the last annual report as No. 15 struck jasper shortly after the first of the year and was discontinued. The men were then taken 175' west, and a raise put up 75' high in ore. The ore however was so flat that had the raise been continued to the second sublevel, as was at first intended, the ore from there would have required a second handling. For this reason, a cross-cut was driven in the jasper under this raise which struck the ore at 50'. This cross-cut will be extended to the footwall, and then connected with the raise above. In this way part of the first raise could be utilized and the ore from the second sublevel obtained without rehandling.

At No. 14 there is 17' of ore laying on the jasper which is now being mined. In the face of this drift, there is about 4' of ore. When the ore now being mined is exhausted, this will be followed, as it is supposed to connect with the ore body which has been shown up by the raise at No. 23, which is now as high as the first level.

2ND LEVEL.

"A" SHAFT.

No drifting has been done on this level during the year. Contracts No. 21, 22, and 7 on this level are taking the ore which was left in the backs of the stopes, which averages about 12' thick.

At No. 1 a raise was put up from the third level and the ore between these two levels is being mined by underhand stoping.

At No. 29 a raise was put up 45' to the hanging, and the ore is now being taken from the foot. The ore on this level is very flat, and there is very little chance of finding any new ore bodies.

2ND LEVEL.

"B" SHAFT.

CLIFFS SHAFT MINE.

2ND LEVEL.

"B" SHAFT.

The west drift referred to in the last annual report has been extended 150' . At No. 3 the ore has been very narrow, averaging only 12' in width. The face of the drift is now in jasper. It is being continued however, in order to reach the ore which is now being worked at No. 15 on the 1st Level.

At No. 28 a back stope is taking the ore from against the hanging, which at this point is about 10' thick. On the extreme north a drift was driven 50' in rock, and 14' in ore. The drift was then turned east and continued 100' in ore and 25' in rock, and as there seemed no prospect of finding anything more to the east, work was discontinued. The back of this drift however is all in ore.

At No. 13 a second drift was put west, 75' in rock and has been in ore for 10' and still has ore in the breast. Apparently the ore is going north, but it cannot be long before it again turns to the west. This ore body is further north than any previous development.

3RD LEVEL.

"A" SHAFT.

During the year No. 6 continued to an underhand stope west. Shortly after the date of the last annual report, this stope struck siderite. A small drift was then started in the bottom, and in 36' struck the ore again. A raise was then put up, and the stope continued west. The ore is about 25' wide.

At 31 a raise has been put up to the second level and the floor laying on the siderite is now being mined. It is 10' thick.

The bottom referred to at No. 7 last year has not been mined, work having been suspended until the ore in the back of the second level is removed.

3RD LEVEL.

"B" SHAFT.

The drift at No. 19 has been continued west 200'. The ore has not yet averaged over 10' wide, but it is expected to reach the same ore body which is now being worked at No. 15 on the 1st Level. This should be encountered within 50'

CLIFFS SHAFT MINE.

250' west of 19, a drift was put north in ore and struck the hanging. During the year four raises have been put up on this level, east of the shaft; two to the second level and two, marked on the second level map as 23 and 17, are up 79', or as high as the first level.

At 23 a drift stope is being carried west on the foot, and has ore on the north side.

At 17 the ground is being opened up to start a second stope west. There is still ore in the backs of these raises, and it is intended to raise again for a sublevel. Sufficient work has not yet been done to define the limits of the deposit. Everything points however to quite a large body of ore. As stated before, it is intended to connect the stopes from the top of these two raises with No. 14 on the 1st Level. The ground in this part of the mine has never before been tested.

4TH LEVEL.

"A" SHAFT.

The only work being done on this level is in the east end. 150' west of the breast of the old drift, cross-cut No. 18 has been drifted 150' northeast. The first 14' in ore, the balance in rock. At 200' this drift should strike the 14' of ore shown up by an old Diamond Drill hole.

4TH LEVEL.

"B" SHAFT.

At 26 the drift has been extended 150' west. In this distance two small veins of ore have been crossed each about 12' wide. In the breast of the drift, the ore is 18' wide. 200' more will have to be drifted to reach the ore shown at 15 on the 1st Level.

At 16 a drift is being driven south to reach the ore shown by the Diamond Drill. It is now in 50' and will have to be extended 45' more before striking the deposit.

5TH LEVEL.

"A" SHAFT.

The north cross-cut west of the shaft has been extended 125', all in soap-rock, to within 5' of the line. The drift west from this cross-cut has been driven 150'. The ore for this distance averaged 8' in width. The face now shows 12' of ore. At No. 12,

CLIFFS SHAFT MINE.

a raise has been put up 70' and will connect with the 3rd Level. This was necessary for ventilation. 150' west of the face of this drift, the Diamond Drill showed 40' of ore on the 4th Level, and it is therefore expected that the ore will rapidly increase in width going west.

At No. 2 a raise has been put up 54' on the foot and will hole to the 4th level in a few days. There is ore both to the north and in the back. East of the shaft, three raises have been put up to the 4th level. The main drift has been extended 225' east; the first 50' in ore, then 75' in soaprock, and the balance in ore. In the face the ore has narrowed to 2' with soaprock hanging, and jasper foot. The No. 8 gang which was drifting is now putting up a raise 100' west of the face for ventilation. When this is finished drifting will be ^{resumed} renewed. This level is fast approaching the eastern limits of the ore body as shown on the upper levels. It is proposed to drift north from the present face of the east drift to reach the ore which was shown up by a Diamond Drill from the 4th Level some years ago. This is the same deposit that the drift from the 4th Level is expected to encounter.

6TH LEVEL.

"A" SHAFT.

The only work done during the year west of the shaft was a raise to the 5th Level. East of the shaft the main drift has been extended 250', practically all in rock. 125' west of the face, in a small seam of ore, a raise was put up to the 5th Level for ventilation. For the last 18' No. 11 has been drifting in mixed ore and jasper. The development work on this level has been extremely disappointing, so much so that it has led to the conclusion that there must be ore either to the north or south, and a Diamond Drill will shortly be started to prove up the ground.

15' from the bottom of the 65' winze, which was sunk last year, a cross-cut was driven 85' to the line of the shaft and then holed to the 6th Level. The lift has been timbered and the shaft is now in commission to the 7th Level. West of the shaft at 24, a drift is being driven to reach the ore shown on the level above and is now in 35'. A small engine has been installed on this level, and the shaft will be sunk another lift during the coming year.

The 7th Level is 561' deep, while the ore shown in "G" Diamond Drill Hole in

CLIFFS SHAFT MINE.

front of Capt. Sedgwick's old house is 580'. The footwall on the 5th and 6th levels has been almost vertical, and if this holds good on this level, the ore body, when opposite the hole, will be about 300' north of it, and only about 19' above. This either means an extremely flat ore body or, what is much more probable, that there is another fold south of the present workings.

"B" shaft has been sunk 40' during the year; the first 32' in jasper, the last 8' in soaprock. The bottom is now on a level with the 5th level "A" shaft, and drifts will be commenced east and west as soon as the sump is completed. This shaft will not be sunk again until the new level has been opened and an opportunity afforded of testing the depth of the ore with a diamond drill.

The maps of all the Hard Ore Mines have been tinted to show at a glance the extensions made during the year. An examination of the Cliffs Shaft maps will show that the principal developments have been in the sublevels above the first level and the extensions west of the levels in "B" shaft. While the ore that has been found in the west end of the mine has not been very wide, at the same time it is encouraging, as the Company owns a large territory to the west, and even a narrow vein offers large possibilities for a future development.

The following estimate of ore in sight was made by our Mining Engineer, Mr. Jopling, from the maps:

	"A" Shaft	"B" Shaft	Total	Less 10% for rock & loss in mining
Floors	662000	496000	1158000	1042000
Pillars	217000	204000	421000	379000
Back of 1st Level	40000	50000	90000	81000
Partly developed walls, breasts, etc.	122000	109000	231000	208000
Total	1041000	859000	1900000	1710000
From the above there should be deducted				
Ore left to support Lake Bancroft			195000	
" " " " Machy & Shafts			380000	
" " " " Excelsior Addn			50000	
Total Available for Mining			625000	562000
				1148000

By comparing this estimate with that of last year it will be seen that as much ore has been developed as was mined. The new levels in "A" and "B" shafts have not reached the ore, so that the sinking has not added anything to the estimate. This will appear in next year's report.