1. Character of present organization, whether individual, firm, limited partnership, cooperative association, or incorporated company: - - - - - - - - -Capital stock, bonds, dividends, and assessments (if an incorporated corpany): BONDS PREFERED STOCK COLDION STOCK TOTAL PAR NO OF TOTAL P NO OF TOTAL P.
NUMBER VALUE SHARES VALUE SHARES VALUE Authorized- - - - - -Dividends and interest, if any, paid during the year: Preferred stock rate - - - - - - - - - - - - ; amount, \$ - - - -Bonds, rate - - - - - - - - - - - - - - - - amount. 3 - - - - -Assassments: Total amount levied, if any, since organization of company- 3 - - - - -AVERAGE No. TOTAL AMOUNT PAID IN WAGES EMPLOYED DURING THE OR SALARIES CLASSES. DURING THE YEAR YEAR Above Ground-Engineers, firemen, machinists, black smiths, carpenters, Below Ground (not for quarries on curface mines )-(Account for all paracha employed at the mine or quarry, Give the total salaries and wages paid, which should include board or rent furnished as part compensation. The wages reported for miners or quarrymen and stonsoutters should be their net wages, and should not include the cost of supplies furnished by the company and charged to them, such as explosives lary 511 Stor and black emithing charges. Care should be taken that those employed above ground and those below ground be reported separately. Stockholders of corporations are not to be reported unless they are salaried officials. Amounts paid for contract work not done by employees hired directly, and the number employed in such work must not be included in this inquiry but be reported in answer to inquiry 6. The average number employed during the year is the number that would be required, at continuous employment for the twelve months, to produce the quantity of product report

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SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including freight paid on the same, \$ 1,20421

(The actual cost of all supplies and materials used during the year, including freight paid on the same must be reported. The cost of the following materials should be reported under this inquiry: Lumber and timber used for repairs, mine supports, track etc., for tracks and repairs, parts of machinery and tools used for renewals and repairs explosives, water for boilers and other purposes, fuel, illuminating and lubricating oils machinery supplies, etc.)

3. MISCELLANEOUS EXPENSES:

Total quantity of mineral or stone mined during the year. 4,750 ln loss -

(Under this inquiry should be reported the quantity and value of all mineral or stone mined during the year, f.o.b. at mine or quarry, as reported to the United States 10. POWER:

a. POWER OWNED-

CNGTNES:	WOURER	TOTAL HORSEPOWER
Steam Gas and Casoline Water wheels		/-
b. Power supplied to orser establishments to ave		- 3
G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-	- horsenower	

(Under this inquiry should be reported all mechanical power employed, either owned or rented, including the number and horsepower of all engines, motors, water wheels purposes.)

name and address of establishment supplying same

UNITED STATES CENSUS OFFICE. Special schedule No. 6 Division of Manufactures. S.N.D. North, Chief Statistician. AND QUARRIES. Name of mine or querry, - Imperial (not operated during year) Iron Ore Character of mineral . - - -Hame of company, firm, or individual owner The Cleveland - Cliffs From Co Location of mine or querry: State Michigan - - : county Baraga Nearest city or town Muchiganne - - Post-office, Muchiganine Marquette Cy. General office at - - - - Cleveland, O - - -UNITED STATES CENSUS OFFICE, Washington, D. C., January 2, 1903. By section 7 of the Act of Congress for the establishment of a permanent Census Office, approved March 6,1902, the Director of the Census is required to prepare a report on mines, mining, quarries, and minerals and the production and value thereof, including gold in divisions of placer and vein, and silver mines, of the United States and the following schedule has been formulated for that purpose. For the convenience of producers, the United States Geological Survey will distribute and receive these schedules in connection with the returns for its annual report. The information returned on this schedule should cover the business year of the establishment most nearly conforming to the year ending December 31, 1902. All answers will be held absolutely confidential. No publication will be made in the census reports disclosing the names or operations of individual establishments in any particular. Special agents and enumerators of the census are liable to a penalty of \$500. if they disclose any information obtained in their official capacity William R. Herriam. Director of the Census EXTRACT FROM ACT OF CONCRESS, MARCH 3, 1899: Section 22 \* \* \* " And every president, treasurer, secretary, director, agent, or other officer of every corporation, and every establishment of productive industry, whether conducted as a corporate body, limited liability company, or by private individuals, from which answers to any of the schedules, inquiries, or statistical interrogatories provided for by this act are herein required, who shall, if there o requested by the director supervisor enumerator or special agent, willfully neglect or refuse to give true and complete answers to any inquiries authorized by this act, or shall willfully give false information, shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not exceeding ten thousand dollars, to which may be added imprisonment for a period not exceeding one year." CERTIFICATE. This is to certify that the incommendation of the best of my knowledge and belief. Must marker Press. This is to certify that the information contained in this schedule is complete (Signature of Special Agent) (Signature and official designation of the parson furnishing the informa tion.)

CONFIDENTIAL.

### DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

DIVISION OF MINING AND MINERAL RESOURCES

To be returned PROMPTLY in accompanying franked enveloped to JOHN BIRKINBINE, Odd Fellows Temple, Broad and Cherry Streets, Philadelphia, Pa.

IRON ORE
Statistics of iron ore mined during the year ending
December 31, 1902, at the

Impurial
(Give name or designation of mine.)

Located & har Michiganna

County of Baraga State of Mich
Not operated during year

Information supplied by

2pm 6 mather President Clurchand @

(Sign here, giving name, official position, and Post-Office address.)

For use only in the preparation of general statistics for the "Mineral Resources of the United States, 1902," to be published by the United States Geological Survey.

A. Underscore character of iron ore produced, and if more than one of the following classes is mined give amount of each:

Limonite brown hematite, or bog ore. Red hematite, specular or fossil ore. Magnetic ore.

Carbonate or black band ore.

B. State total amount of marketable iron ore mined or produced during the year ending December 31,1902.

(if none, so state,) gross tons.

Also stock of iron ore on hand at Mine December 31,1902.

(if none so state.)

O. Give total value on cars or carts At The Mine of the iron ore produced during the year ending December 31,1902, royalty, if any, included, but exclusive of hauling to points of shipment or consumption. The gross commercial value of the ore at the mine, NOT the cost or profit, is asked for.

• ••	P						•
1. Character of present organization, w	whether	individu	ual,	firm,	limit	ed partner	rship,
cooperative association, or incorpor							
2. Capital stock, bonds, dividends, and	assess.	ments (	if di	n inoo	rporat	ed company	7):
	BOND	TOTAL P	AR No	FERRED 0.OF 1	STOCK OTAL P	No.OF TO	COOK P.
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Preferred stock rate							
Bonds, rate							
Assassments: Total amount levied, if any							
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						The second of th	
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# AVERAGE NUMBER OF WAGE-EARNERS AT SPECIFIED DAILY RATES OF PAY.

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SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including

freight paid on the same \$ - - - -

(The actual cost of all supplies and materials used during the year, including freight paid on the same must be reported. The cost of the following materials should be reported under this inquiry: Lumber and timber used for repairs, mine supports, track ties, cars, and all other purposes; from and steel for blacksmithing, rails, frogs, sleepers etc., for tracks and repairs parts of machinery and tools used for renewals and repairs explosives, water for boilers and other purposes, fuel, illuminating and lubricating oils machinery supplies, etc. ) 8. MISCELLANEOUS EXPENSES:

ITEMS. AMOUNT Royalties and rent of mine and mining plant - - - - - - - -Amount paid for rent of offices, taxes, insurance, interest advertising, 75000 office supplies, law expenses, injuries and damages, telegraph and telephone service, gas, and all other sundries not reported elsewhere - - - 1070.52 

(All items of expense incident to the operation of the mine or quarry, not accounted for under inquiries 3, and 7, must be reported here. Do not include any portion of the freight reported under inquiry 7 as paid on emplies and materials.)

Total quantity of mineral or stone mined during the year,

Total value at mine or quarry, \$ - - - - - -

(Under this inquiry should be reported the quantity and value of all mineral or stone mined during the year, f.o.b. at mine or quarry, as reported to the United States Geological Survey.)

10. POWER:

a. POWER OWNED-

ENGINES:	a	L	A S	S	•								N	DEE	R	TOT	
Steam						7 1 4							2 1000		-	/	
Other power(specify kind	5			-	-			1 1	-						/		

s. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-

Kind of power - - - - - - ; horsepower,

name and address of establishment supplying same

(Under this inquiry should be reported all mechanical power amployed, either owned or rented, including the number and horserower of all engines, motors water wheels etc., used for hoisting, derricks, surface machinery ventilating, pumping, and all other purposes.)

UNITED STATES CENSUS OFFICE. Special schedule No. 6 Division of Manufactures. S.N.D. North, Chief Statistician. AND QUARRIES. Name of mine or quarry .- Webster (WA operator during year) Iron Ore Character of mineral ,- -Hame of company, firm, or individual owner, The Cleveland Cliffs Draw Co

UNITED STATES CENSUS OFFICE,

leveland O.

Nearest city or town, Muchigamme \_ - - Post-office, Muchigamme Marquelle, Cy,

Washington, D. C., Jamuary 2, 1903. By section ? of the Act of Congress for the establishment of a permanent Census Office, approved March 6,1902, the Director of the Census is required to prepare a report on mines, mining, quarries, and minerals and the production and value thereof. including gold in divisions of placer and vein, and silver nines, of the United States and the following schedule has been formulated for that purpose.

Location of mine or querry: State Michigan - - -: County, Burugu

For the convenience of producers, the United States Geological Survey will distribute and receive these schedules in connection with the returns for its annual report.

The information returned on this achedule should cover the business year of the

establishment most nearly conforming to the year ending December 31, 1902.

All answers will be held absolutely confidential. No publication will be made in the census reports disclosing the names or operations of individual establishments in any particular. Special agents and enumerators of the census are lighle to a penalty of \$500. if they disclose any information obtained in their official capacity

> William R. Merriam. Director of the Census

EXTRACT FROM ACT OF CONGRESS MARCH 3, 1899:

General office at -

Section 22 \* \* \* " And every president, treasurer, secretary, director, agent, or other officer of every corporation, and every establishment of productive industry, whether conducted as a corporate body, limited limbility company, or by private individuals, from which answers to any of the schedules, inquiries, or statistical interrogatories provided for by this act are herein required, who shall, if there to requested by the director supervisor enumerator or special agent, willfully neglect or refuse to give true and complete enswers to any incuiries sutherized by this act, or shall willfully give false information, shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not exceeding ten thousand dollars, to which may be added imprisonment for a period not exceeding one year."

#### CERTIFICATE.

This is to certify that the information contained in this schedule is complete and correct to the best of my knowledge and belief.

(Signature of Special Agent)

(Signature and official of the person furnishing the informa tion.)

CONFIDENTIAL.

#### DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

DIVISION OF MINING AND MINERAL RESOURCES

To be returned PROMPTLY in accompanying franked enveloped to JOHN BIRKINBINE, Odd Fellows' Temple, Broad and Cherry Streets, Philadelphia, Pa.

IRON ORE
Statistics of iron ore mined during the year ending December 31, 1903, at the

Obster
(Give name or designation of mine.)

Located Sor Michiganine

County of Baraga State of Mich.

Not operated along year

Information supplied by

(Sign here, giving name, official position, and Post-Office address.)

For use only in the preparation of general statistics for the "Mineral Resources of the United States, 1902," to be published by the United States Geological Survey.

A. Underscore character of iron ore produced, and if more than one of the following classes is mined give amount of each:

Limonite brown hematite, or bog ore. Red hematite, specular or fossil ore. Magnetic ore.

Carbonate or black band ore.

B. State total amount of marketable iron are mined or produced during the year ending December 31,1902.

(if none, so state,) gross tons.

Also stock of iron ore on hand at Mine December 31,1902.

(if none se state.)

d. Give total value on cars or carte At The Mine of the iron ore produced during the year ending December 31,1902, royalty, if any, included, but exclusive of hauling to points of shipment or consumption. The gross commercial value of the ore at the mine, NOT the cost or profit, is asked for.

\$

	Y. Character of present organization,								4
	cooperative association, or incorpor	ated o	ompany:~	-					
	2. Capital stock, bonds, dividends, and	l asses	ements (	if	an ino	orporate	ed compo	any):	
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	Issued to the end of the year-		ļ	-		-\$		3-	
	Dividends and interest, if any, paid dur	100000000000000000000000000000000000000							
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	Preferred stock rate								
	Bonds, rate +			-		amount,	\$		
	Assassments: Total amount levied, if any	since	organiza	ati	on of	omonv.	3		
15					T	E No.	TOTAL A		1
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	Above Ground-								
	Superintendents mngrs foremen survo	we no of					\$		
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	(Account for all persons employed at	the m	ine or q	ues	cry. Gi	ve the	¥ total s	alaries	
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	should not include the cost of supplies a such as explosives, lamp oil etc., and blac those employed above ground and the collect								
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	continuous employment for the twelve mont								
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	March April May	ge entorke. The count of the particular oper on period oper oper oper oper oper oper oper oper	arna cs. cole cus con par id 1 ar col	Do arks arry fund for any any any any	show not and ing it, mplo or a minimplo	id be inc. i other is porces with a proper inc.	e replude er sa sid fenga work, e qua enga ratio Numi	- AS- ON- NO TENDER OF BY IN MARKED	egust eptem ctobe cvemb inc membe d emp ton n thi n duc ing t f shi	ber er er ludin rs,ge loyee oer, s ols done h wor	mineral ser, - s	or of interest of the delibert	orking ther and total	e on super unit	tonnarinter Eive	rate orteo	paid , an	a	

SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including

freight paid on the same \$ - - - -

(The actual cost of all supplies and materials used during the year, including freight paid on the same, must be reported. The cost of the following materials should be reported under this inquiry: Lumber and timber used for repairs, mine supports, track ties, cars, and all other purposes; iron and steel for blacksmithing, rails, frogs, sleepers etc., for tracks and repairs, parts of machinery and tools used for renewals and repairs explosives, water for boilers and other purposes, fuel, illuminating and lubricating cils machinery supplies, etc.)

3. MISCELLANEOUS EXPENSES:

(All items of expense incident to the operation of the mine or quarry, not accounted for under inquiries 8, and 7, must be reported here. Do not include any portion of the freight reported under inquiry 7 as paid on supplies end materials.)

9. PRODUCT:

Total quantity of mineral or stone mined during the year, Money

(Under this inquiry should be reported the quantity and value of all mineral or stone mined during the year, f.o.b. at mine or quarry, as reported to the United States Geological Survey.)

10. POWER:

a. POWER OWNED.

CLASS.	MUMBER	TOTAL HORSEPOWER
Steam	none	
Water wheels		
b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY- HOTSEPOWER,		
Kind of power		

(Under this inquiry should be reported all mechanical power amployed, either owned or rented, including the number and horsepower of all engines, motors, water wheels etc., used for hoisting, derricks, surface machinery, ventilating, pumping, and all other purposes,)

UNITED STATES CENSUS OFFICE. Special schedule No. 6. Division of Manufactures. S.N.D.North, Chief Statistician. QUARRIES Name of mine or querry, -- - ashland Mine Character of mineral .- - - - I row Ore Name of company, firm, or individuel owner The Cleveland Cliffedron Co. General office at - - - - Cleveland, O. UNITED STATES CENSUS OFFICE, . Washington, D. C., Jamary 2, 1963. By section ? of the Act of Congress for the establishment of a permanent Census Office, approved March 6,1902, the Director of the Census is required to prepare a report on mines, mining, quarries, and minerals and the production and value thereof, including gold in divisions of placer and vein, and silver mines, of the United States and the following schedule has been formulated for that purpose. For the convenience of producers, the United States Geological Survey will distribute and receive these schedules in connection with the returns for its annual report. The information returned on this achedule should cover the business year of the establishment most nearly conforming to the year ending December 31, 1902. All answers will be held absolutely confidential. No publication will be made in the census reports disclosing the names or operations of individual establishments in any particular. Special agents and emmerators of the census are liable to a penalty of \$500, if they disclose any information obtained in their official expacity. William R. Herriam. Director of the Census EXTLACT FROM ACT OF CONCRESS, MARCH 3, 1899: Section 22 \* \* \* " And every president, treasurer, secretary, director, agent, or other officer of every corporation, and every establishment of medicative industry, whether conducted as a corporate body, limited liability company, or by private individuals, from which enswers to any of the schedules, inquiries, or statistical interrogatories provided for by this act are herein required, who shall, if thereto requested by the director, supervisor, enumerator, or special agent, willfully neglect or refuse to give true and complete enswers to any inquiries authorized by this act, or shall willfully give false information, shall be guilty of a misdemeanor, and upon conviction thereof shall be fined not exceeding ten thousand dollars, to which may be added imprisonment for a period not exceeding one year." CERTIFICATE. This is to certify that the information contained in this schedule is complete and sorrect to the best of my knowledge and belief. may marker Prest (Signature of Special Agent) (Signature and official designation of the person furnishing the informs. tion.)

Gronwood State of Much Information supplied by I'm & marty Proof (Sign here, giving name, official position, and Post-Office address.) For use only in the preparation of general statistics for the Mineral Resources of the United States, 1902," to be published by the United States Geological Survey. A. Underscore character of iron ore produced, and if more than one of the following classes is mined give amount of each: Limonite brown hematite or bog ore. Red hematite, specular or fossil ore. Magnetic ore. Carbonate or black band ore. B. State total amount of marketable iron are mined or produced during the year ending December 31,1902. (if none, so state.) gross tons. Also stock of iron ore on hand at Mine December 31,1902. (if none so state.) gross tons. O. Give total value on cars or carts At The Mine of the iron ore produced during the year ending December 31,1902, royalty, if any, included, but exclusive of hauling to points of shipment or consumption. The gross commercial value of the ore at the mine, NOT the cost or profit; is asked for. 1968 D. So there objection to the figures of output only bring credited to your nine in the report when 280 240

CONFIDENTIAL .

SURVEY

DEPARTMENT OF THE INTERIOR

DIVISION OF MINING AND MINERAL RESOURCES

To be returned PROMPTLY in accompanying franked enveloped to JOHN BIRKINBINE, Odd Fellows Temple,

Statistics of iron ore mined during the year ending

Broad and Cherry Streets, Philadelphia, Pa.

IRON ORE

December 31, 1902 at the

Located at

250

UNITED STATES GEOLOGICAL

No. 229

	1. Character of present organization, w								
	E. Capital stock bonds dividends and								
	E. Capital stock, bonds, dividends, and	asses	amenta (	11	an ino	orporate	ed compa	my ):	
		The same of the sa	DS	PF	REFERRE	D STOCK	GOMMON	STOOK	
		CONTRACTOR S	VALUE	PAR	NO OF	VALUE	No.OF SHARES	TOTAL P	0
	Authorized	7775	•		A STATE OF THE PARTY OF THE PAR				-
	Issued to the end of the year		\$ ·			-\$		\$	-
	Dividends and interest, if any, paid dur	ing th	e year:						
	Common stock orate				;	amount	, 3		
	Preferred stock, rate	-			;	amount	. \$		
	Bonds, rate								
	Assessments: Total amount levied, if any								
-					T				1
					ACCURATION AND ADDRESS.	GE No.	PAID I		
	CLASSES.				DURIN	G THE	OR SAL	ARTES THE YEAR	D
	Above Ground-				Z AMPLET		THEFT	THE THE	T.
	Cenaral officers			-			\$		
	Superintendents, mngrs, foremen, survo	yers, et	to			2	34,0	08.50	
	Engineers, firemen, machinists.blacks	mithe.	samente	19 PE .			E VIVORENA		
	and other mechanics	8					September 1		
	Boys under 16 years			-		59	- 32.1	10 93	
	Miners			-		202.	1440	35.14	-
	Minors helpers				1	65	42,	59.00	-
	Foremen					110	58,4	25.82	
	1 V 1 R 1				ALCOHOLD STREET	407	2917	-00 00	100
	(Account for all persons employed at and wages paid, which should include board wages reported for miners or quarrymen at should not include the cost of supplies such as explosives larp oil etc. and black those employed above ground and those be of corporations are not to be reported un paid for contract work, not done by employed for contract work, not done by employed work, must not be included in this in the average number suployed during the year on tinuous employment for the twelve moned.	d or rend stor furnish ckemith low greenless tyees himquiry, ear is the, to	ent furnies utter ned by the ing chic bund be they are ired dir but be	ieh is s ine rep rect rep	ed as ; hould I compan s. Care orted laried ly, and orted	pert con be their v and ci e should saparate official the nur in answer	mpensat: r net watersed i be tel ely Ste als. Amore emper to in	ion. The ages, and to them, ten that ochholde ounts ployed in aguiry, 6	rs n
	ed.)	2)							

### AVERAGE NUMBER OF WAGE-EARNESS AT SPECIFIED DAILY RATES OF PAY.

											2011	an Dir	THE TO	(7120) f	TA.			
	Less	50	.75	1.00	1.25	1,50	1.75	2.00	2.25	2.50	12.75	3.00	3,25	3,50	3,75	4.00	4.25	
OCCUPATIONS	thant	0	to	to	to	to	to	to	to	to	to	to	to	to	to	to	and	
,	.50	74	.99	1.24	1.49	174		2.24	2.49	2.74	2,99	3.84	3,49	3.74	3.99	4.24	over	
Engineers -		1	-		-							-						
Machinists,							1	7										
blackemiths.	10,000	6.8																
carpenters.																		
and other																		
mechanics -						1	4	6	1		2							
Miners or	100											1000			-	12 -		
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stonecutters		-	Mil mar	-		-		86	82	41	4							
Miners'								1 -										
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All other			200		-	-				14								
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HOTTOPOT DOTOT	CONTRACTOR OF THE	CITE	11 8 3		OTHE	2 77 - 53 53 1	57 19 7 day	420,779,975	P. 42 10 10	- T								
4. If mining and char	acton	Sept.	2200	1115	ra De	11.Q I	or by	ton,	car,	yard,	or o	ther	unit,	give :	rate	paid		
Average		1		400		-	40				-							

(The rate paid for mining or quarrying not done by the day should be reported, and the average number of employees engaged in such work and the total amount paid.)

Total number of days in operation during the year, 304 -Number of hours in operation par day, 20 - - Number of shifts of workmen, 2 - - Number of hours to chift, - 10 - - - Contract Work:

SUPPLIES AND MATERIAL:

Total cost of supplies and materials all kinds used during the year, including freight paid on the same, \$ 130,144.43

(The actual cost of all supplies and materials used during the year, including freight paid on the same must be reported. The cost of the following materials should be reported under this inquiry: Lumber and timber used for repairs, mine supports, track ties, care, and all other purposes; iron and steel for blacksmithing, rails, frogs, sleepers etc., for tracks and repairs, parts of madilinary and tools used for renewals and repairs explosives, water for boilers and other purposes, fuel, illuminating and lubricating oils machinery supplies etc. ) 8. MISCELLANEOUS EXPENSES:

ITEMS. Amount paid for rent of offices, taxes, insurance, interest advertising, / office supplies, law expenses, injuries and damages, telegraph and telephone service, gas, and all other sundries not reported elsewhere - - - 19,664,92 

(All items of expense incident to the operation of the mine or quarry, not accounted for under inquiries 8, and 7, must be reported here. Do not include any portion of the freight reported under inquiry ? as paid on supplies and materials.) 9. PRODUCT:

Total quantity of mineral or stone mined during the year, 314,720 Gr. Joss. Total value at mine or quarry, \$ \$53904 31 -

(Under this inquiry should be reported the quantity and value of all mineral or stone mined during the year, f.o.b. at mine or quarry, as reported to the United States Geological Survey.)

10 . POWER: a. POWER OWNED.

CLASS.	NUMBER	TOTAL HORSEPOWER
Steam	- V	
Other power(specify kind) b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY		

G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-

Kind of power, ---- horsepower,

name and address of establishment supplying some, - - -

(Under this inquiry should be reported all mechanical power employed, either owned or rented, including the number and horserower of all engines, motors, water wheels etc., used for hoisting, derricks, surface machinery, ventilating, pumping, and all other

The Cleveland-Cliffs Iron Co.

Copies of Reports for 1902 furnished Us Government

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Cleveland Dow Mining a ofc	6200813 Du	
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Chorland-Cliffs Ironla	10532618 "	
9	23547478	
Less " " " Pigdonat en	17095938	
Dibih Balance 11/30/02	6451540	
add adjustment on account of 136 tous		
Shipped in Now 190 r to Maryland Car Whole		
token into novalio as # 1 Idy visted of + 2 Hy		
See Jo Von #5366-728/03 - a see tou,	13600	
Debit Balance, as adjusted.	6465,40	
asper LARIN Teos books, letter 4/13/03 att	ashed: 64 651 40	
1/14/03. Hel		
	March 1997 Company (Charles of Party Street	Control of the Contro

April 14th, 1903. Dunbar Furnace Co., Dunbar, Pa. Gentlemen: -Your favor of the 18th received, and we are glad to note that our accounts are now in line as or Nov. 20th, 1902. The balance standing on our books against you on Nov. 30th 1s \$64,661.40, as per your letter. We have taken into our accounts the correction of \$20.00 additional charge to you on 30 tons foundry iron shipped to Maryland Car Theel Co. in December. Vours truly, THE CLEVELAND-CLIFFE IRON CO. HOS-H Augutor.

DUNBAR FURNACE COMPANY.

APRIL 1908

# High Grade Pig Iron, Connellsville Coke.

SHIPPERS OF BITUMINOUS COAL.

Dunbar, Fayette Co., Pa. April 13th, 1903.

Mr. R. C. Mann, Auditor,

Cleveland-Cliffs Iron Co.,

Cleveland, Ohio.

Dear Sir :-

In reply to your letters of January 20th and March 9th, 1903 relative to the difference in our respective accounts.

Am pleased to state that have at last been able to go over the statement of the account, as per your rendering, wherein you showed a difference of \$1308.16, and find that this discrepancy was occasioned by our not placing the amount which we charges you with on account of Ores not running the guaranteed analyses, viz; \$3884.63, to apply to the old contract which, of course, would have made a corresponding tonnage of Metal apply on the new contract. However, we have brought our accounts into agreement by crediting you with \$1308.16. In addition to this we have also credited the \$136.00 on account of November shipments of Metal to Maryland Car Wheel Co. being transferred from No.1 to No. 2X Foundry. After having made these changes, according to our books, the balance standing to your credit on December 1st, 1902 is \$64651.40. Please advise if this agrees with your account.

Would also call your attention to the fact that in December 1902, we shipped the Maryland Car Wheel Co. 20 Tons Foundry Iron which completed the order and which is charged as No. 1 Foundry and should have been 2X. We have therefore credited your account with \$20.00 to adjust this shipment.

Yours truly,

Dunbar Furnace Co.

Dunbar Michage Co.

Dunber. Pa.

Centle en:-

We have not received verly from you to our letter of Jan. 20th, in regard to adjusting our accounts to Nov. 30th.

adjustment on our books transferring 136 tons skilled during November to imryland Car Theel Co. From No.1 Foundry to No.2 Foundry in order to correct our records. This makes an additional differences between us of \$130.00. A total excess charge on our books against you over that shown by your books of \$1444.16.

We should be pleased to have you let us hear from you as promptly as possible so that we may get our accounts in line with yours.

Yours truly.

THE CLEVELAND-CLIFFS IRON CO.

HCS-H

Anditor.

See Meuro attached Javy Jo Vou of Stock &BRig Iron regarding hauffer # 17dy to # 2 Hty. 136 tons now 20 " Dear

Dan. 20th, 1903. Dumbar Purnace Comeny, Dunbar. Pa. Centlement-We are in receipt of your favor of Jan. 14th, enclosing statements of your account with us to November 30th. We find on checking some that there are animaber of differences in our figures which we emmerate as follows: You have credited against the new contract "Account of ores not averaging guaranteed analysis, as per statement. 33,384.63". This should appear on the old contract, as this adjustment of analysis was figured on ore charged you under that contract. In view of the above change in amount applied under your old contract the rig iron placed on yard would, of course, be changed to correspond with the adjusted figure. We do not know what methdypun have taken in dividing the pig iron between the two contracts; therefore, we think it best to give you a memorandum of the account as it stands on our books, which we enclose herein. This, you will note, shows a difference of \$1,308.16 excess charge on our books over that shown by you. We also give you herewith a statement of the grades to the point at which the change from the old to the new contract took place; to July 1st, 1902, according to our books, the rig iron placed on our yard under the gold contract was as follows:

Dunbar Furnace Co. #2 No. 1 Foundry, 842 tons 4.667 " Mill & Basic 0 206 Special Chill 43,531 During July up th the 7th, we arplied on the old contract. No.1 Foundry, 37 tons n 8 38 " 388 P Mall. 81.3 on this date we commenced to oraclt the ore placed on the yard under the new contract. We trust that the above explanation and data you will be able to get your account in line with ours. Kin ly let us hear from you at as early a date as possible, and oblige. Yours truly. THE CLEVELAND-GLIFFS IRON CO. Auditor. Encha.

# THE CLEVELAND-CLIFFS IRON CO'S ACCOUNT WITH L. &. R. WISTER & CO., NOV. 30, 1902.

New Contract:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  61,230-185 tons, as per invoices,  OLD CONTRACT:  879 tons #1 Foundry	958,170.1 64,515.4 \$ 64,515.4
MEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  0LD CONTRACT:  879 tons #1 Foundry	
### CONTRACT:  61,330-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry	958,170.1
### CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry	
### CONTRACT:  61,330-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry	Ì
### CONTRACT:  61,330-185 tons, as per invoices,  Pig iron placed on our yard, viz:  0LD CONTRACT:  879 tons #1 Foundry	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  0LD CONTRACT:  879 tons #1 Foundry	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry   \$22.80 = \$80,041.80 4,755 " #2 "	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:  879 tons #1 Foundry @ \$22.80 = \$80,041.80	
NEW CONTRACT:  61,230-185 tons, as per invoices,  Pig iron placed on our yard, viz:  OLD CONTRACT:	
NEW CONTRACT: 61,230-185 tons, as per invoices, Pig iron placed on our yard, viz:	
NEW CONTRACT: 61,230-185 tons, as per invoices,	
NEW CONTRACT:	
NEW CONTRACT:	\$1,022,685.5
	173,462.4
Net value, Ore charged,	
	\$ 849,223.1
Less penalty account analysis,	37,622.3
200,000 tons ore,	\$ 886,846.4

<sup>\* \$12.41</sup> added to balance account.

H.C.S. 1/20/03

126 time # 1 Jay to # 2 Day ( Mary land Car Healto @ 100 dy to Suelow .

136.00

Statement of Cleveland-Cliffs Iron Co's Account November 30th, 1902. Old Contract Balance Nov. 30th, 1901, as per statement rendered 103494.35 Ores, as per Invoices :-69213.96 47096.65 42953.97 24624.49 24204.90 208093.97 / -----311588.32 Metal Yarded :-Tons --------No. 1 Foundry 728 @ \$22.80 16598.40 No. 2X Foundry ----- 2158 @ \$20.90 45102.20 Mill & Basic ----- 12263 @ \$19.00 233000.94 294701.54 Amount account Ores not averaging guaranteed analyses, as per statement -----16886.78 \$ 311588.32 ------

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N

During 1901 - 29.123 tons
1902 above 15.149
44272

Statement of Cleveland-Cliffs Iron Co's Account, November 30th, 1902. New Contract Ores, as per Invoices Cliff Shaft Ore ----- 29173 Tons 78385.75 Michigamme Ore ---- 337 " 337 " 1601.64 Scotch Ore ----- 9765300 9265 " 38232.86 48163.21 2647.44 V 13329.04 18189.59 7965.65 521.96 209037.14 Adjustment of Metal Yarded @ \$22.80, 20.90& 19.00 to \$14.00, \$13.00 and \$12.00 per Ton -----35272.13 ------244309.27 Metal Yarded . No. 1 Fdy. ---- 529.5 Tons @ \$22.80-12072.60 No. 2X Fdy. --- 1380 Tons @ \$20.90 28842.00 Mill & Basic --2816 " @ \$19.00 53500.06 94414.66 Account of Ores not averaging guaranteed analyses, as per statement -----3884.63 ======= 98299.29 No.1 Fdy. ----- 418.5 Tons @ \$14.00 No. 2 Fdy. ----- 1229 " @ \$13.00 Mill & Basic ---- 2116 " @ \$12.00 5859.00 15977.00 25392.00 47228.00 Adjustment of Ores shipped during 1902, as

181102.03

Ore unsettled for -----

per statement -----

Summary

\$ 63207.24

---------

# 1 2 day 948 lins # 2 " 2609 MeerBasic 4.937

8.489

m s

# DUNBAR FURNACE COMPANY,

MANUFACTURERS OF

High Grade Pig Iron, Connellsville Coke.

SHIPPERS OF BITUMINOUS COAL.

DUNBAR, FAYETTE CO., PA., January 14th, 1903.

Mr. R. C. Mann, Auditor,

Cleveland-Cliffs Iron Co.,

Cleveland, Ohio.

Dear Sir :
Your favor of the 8th inst came duly to hand and, as requested, we herewith hand you statement of Account as of November 30th, 1902.

In sending this statement we show our completion of the Old Contract on one sheet and the New one on Sheet 2. Will thank you to advise as soon as possible whether our accounts are in agreement, and oblige.

Yours truly,

Dunbar Furnace Co.

Per Hoase

Jan. 8th, 1903. Bunbar Furnace Company, Dunbar, Pa. Gentlemen:-Will you kindly furnish us with statement showing our account with you as of November 30th, 1902. That is, the ores wharged to you as per our invoices, and metal yarded to that date, similar to statement furnished us as per your letter of Dec. 11th, 1901. Yours truly, THE CLEVELAND-CLIFFS IRON COMPANY. HCS-H Auditor.

	1				lemin	(19	Dra										(Red)
Switch	20	Olpha	Casilyand	Lake Biso	Fake	Lehshing	Brook	y Daylor	appland	Globe	Bedford	Comma	4				Total
El Shaft Burstord		22109	31			. 0		0			0					/	43279
Salishing B alford Fake ashland	Bles			62598		l vet	45-5									-	67598
achland Daylor					7887	61482	7440	3178	796o.	342	1860					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1375
Outres					/ /	86709			7700.		465			-	,		39532
Selford						Grane					884-	10399				_	10297
a supra	(Black)	65318	32	14 6.809		251199	1	2178	Tales	342	3811	10297					496103
									4-0	047	20.1	7/					7000

# THE CLEVELAND-CLIFFS IRON CO.

Summary of ore statements for 1902, showing amount of our grades produced, shipped and in stock. Also foreign grades shipped as our grades and as straight foreign grades.

GRADES.	In stock Dec 1,01.	Product.	Foreign ores & transfers.	Total.	Shipments.	In stock Nov 30,02.	
Scotch	79232	76024	43279	111977	25,532	86445	
Cliffs Shaft,	124445	279002	65388	468801	447,567	21234	
Lake Bes,	2274	165480	146810	314564	314564		
Lake	119545	309184	8084	373471	222,248	151223	
Lake Bes Sil,		3167		3167	3167		
Salisbury Bes,	2658	89612	84212 884×	8058	539979	8058	
Salisbury	21904	89074	251199	361293	351397	9896	
Foster	1200	810		2010	2010		
Tilden Sil,		4750		4750	4750		
Michigamme,	11078			11330	10684	646	
" In C & N W Dock	, 252	- 1175					
Volunteer,	18723		10297	8426	69.	8357 .	
Comrade,	23329	100 miles	10297	33626	32667-	959	
Ashland	8278	255669	7960	270465	260676	9789 ·	
"" In W C dock,	933		16189				
Taylor	26580	53022	2178	65591	28883	36708	
Globe		1010	342~	1352	1352		
Imperial,	7509·			7509		7509	
Abbotsford,		21621	21624 67598	21624	21624		
Bedford		89,39~	291 253811 }	29125	29125		
Chatford		793	795	793	793		
Beresford		22129	77129	20	20		
Castleford		11.850	11884	11884	11884		
Buffalo		89386 39532	39534	2212	2212		
Total,	447940	1326804		2112048	1771224	340824	
THE RESIDENCE OF THE PARTY OF T			The second secon	CONTRACTOR OF THE PARTY OF THE	Annual Visit Control of the Control	CONTRACTOR OF STREET	

## Statement Buffalo & Cameo Ores for year ending Nor. 30, 1902.

			Tons	Tons
Amount due the C. C.	I. Co.			
Buffalo			8 <b>7959</b> ,	
Cameo			40887	
	Total		128846	
Received from Regent	Iron Co.			
Buffalo				89386 🗸
Cameo				39532 V
	Total			128918
Amount still due			0	
Shipped:		32.00		
	Furnace-Buffalo		1720	
Antri	m Iron Co-Buffalo		492	
	Total shipped as	Buffalo		2212
Buffalo shipped	as Salisbury		86709 V	
P	" Bedford		465	87174
Cameo Shifshed	" Bedford		38930 1	
	Total Cameo as of	ther Ores		39532
				The second secon

Statement of Imperial Ore for year ending Nov. 30, 1902. Jours/ In stock at Mine Dec. 1st. 1901. 7509 In stack at Mine Nov. 30, 1902.

Statement of Volunteebre for year ending Nov. 30, 1902.

Jous! Jous! In stOck at Mine Dec. 1st 1901 18723 18723

Shipped:

Pioneer Furnace 69 Shipped as Combade Ore 10297 In stock at Mine Mov. 30, 1902. 8357

> Total 18723

Statement of Comrade Ore for year ending Nov. 30, 1902. Jours. In stock at Mine Dec. 1st. 1901. 23329 Volunteer shipped as Comrade 10299 Total 33626 Shipped: Sandusky 10246 Cleveland 15597

Ashtabula 6824 Total Shipped 32667 959

In stock at Mine Nov. 30, 1902.

Total

33626

7509

Statement of Ashland Ore for year ending	ng Nov. 30	, 1902.
In stock at Mine Dec. 1st. 1901	- Fores   8278	Jans-
In W. C. Dock, Ashland Dec. 1st 1901	933	
Produced during year	255669	
Total Ashland		264880
Taylor Ore transferredto Ashland		7960 L
See Weekly Mine Report		
Total		272840
Shipped: - Ashland -		
Zeneth Furnice	4251	
Toledo	14131	
Loraine	103031	
Cleveland	29492	
Fairport	11126	
Ashtabula	83267	
Erie	6390	
Buffalo	80442	
Total Ashland	201	239400
Ashland Special		
Cleveland	4770	
Ashtabula	16506	
Total Ashland Special		21276
Transferred Ashland Ores to other Ores		
(Weekly Mine Report) Taylor	2178	
Waga Lake	197	
Total transferred to other Ore	es	2375
In stock at Mine Nov. 30, 1902.		9789
Total		272840

Aug. 17

# Statement of Taylor Ore for year ending Nov. 30, 1902.

	Jours	Jours
In stock at Mine Dec. 1st. 1901	26580	
Produced during year	53022	
Total Taylor		79602
Ashland Ore transferred to Taylor		2178 🗸
(See weekly Mine report)		
Total		81780
Shipped:		
Spring Valley Iro	n Co.1923	
Zenith Furnace Co	6576	
Fairport	20384	
Total Shippdd		28883
Taylon		
Total transferred to other ores		
Ashland	7960 -	
Globe	342	
(See weekly Mine Report)		
Saturn Lage	4690	
Veg <b>a</b> Do	3197	
Total transferred to other Ores	7887	16189
In stock at Mine Nov. 30, 1902.		36708
Total		81780
Statement of Globe Ore for year ending	g Nov. 30, 19	
Produced during year	1010	1010
Taylor Ore trans. to Globe		342
(See weekly Mine report)		
Total	153	1352
Shipped:		
Spring Valley Iro	on Co. 413	

Ashland Iron & Steel 939

Total

May 16 Aug. 17

1352

THE CLEVELAND-CLIFFS IRON CO.

# Report of ores received and shipped from the Lake Superior and Regent Mines for the season ending December 5th.,

# 1 9 0 2.

	Abbots ford	Bed ford	Chat ford		Beres ford	Castle ford	Buffalo & Cameo
C.C.I.Co's Proportion,	22369	89395		62609	22125	54056	87959 B. 40887 C.
Shipped by vessel & Rail, Vessel & Rail, Mixed grades,		25314 64078	793	62598	20	11850	
Total,	21624	89392	793	62598	22129	11850	128918
Amount still due,	745	3		11		42206	

SUMMARY OF SHIPMENTS IN TONS AND POUNDS.

GRADES.	TONS.	POUNDS.	
Abbotsford	21623	1580	
Bedford	89391	1260	
Chatford	792	1790	
Alford	62598	930	
Beresford	22128	1630	
Castleford	11850	580	
Buffalo	89386	200	
Cameo	39532	770	
Total,	337303	2020	

# Statement of Abbotsford for year ending Nov. 30, 1902.

Amount due 0	d Iron do	22369	Jour
Amount due C.	te Superior Iron Co.	2000	21624
Amount still d		745	
Shipped:	1886 188 188 188 188 188 188 188 188 188	25 27 50 13 27 50	
	Lorain	7399	
	Cleveland	14225	
Company Line	· · · · · · · · · · · · · · · · · · ·	Carried Control	27624

	Statement of	Bedford Ore for year ending	ng Nov. 30,	1902.
			Joust	Jours
	Amount due C.	. C. Iron Co	89395	
	Rec. from Lal	ke Superior Iron Co.		89392
	Amount still	due	3	
	Other Oreso	transferred to Bedford		
Aug. 26	Cadillac	Buffalo	465.	
22 . 400	17272	Salisbury	3041	
		Lake	168	
Sept.7	Sitka	Salisbury	291'	
Oct. 17	Pratt	Cameo	602*	
		Salisbury	289 ·	
		Lake	1692	
		Total Other Ores		3811
		Total		93203
	Shipped:			
		Pioneer Furnace	213	
		Carp Furnace	1484	
		Spring Lake Iron	co 7508	
		Cleveland	2536	
		Ashtabula	17384	
		Total Shipped	(Farmand)	29125

# Statement of Annatagord (Continued).

	Brought forward		29125°	
	Bedford Ore trans. to Salisbury		64078	
	Total	-	93203	
	Statement of Chatford for the year ending	Nov. 30,	1902	
			Tous	
	Amount due C. C. Iron Co.			
	Rec. from Lake Superior Iron Co		793	
	Shipped			
	Antrim Iron Co.		793	_
	Statement of Alford Ore for year ending No	70.30	0.0	
		Jours	Lous/	
		52609		
	Received from Lake Superior Iron Co	22:00	62598	-
	Amount still due	11		
	Shipped:			
	Bessen			
	Alford trans. to Lake Superior		62598	
	Statement for Beresford for year ending No	OV 30 7	902	
		Jours-	Jours'	
		22125		
	Rec. from Lake Superior Iron Works	=	22129	
	Amount' still due	0		
	Shipped:			
	Mephan & Klein E. St.	. Louis	20	
	Beresford as crushed Cliffs Shaft		22109	/
The state of the s		A STATE OF THE STA		1

- Total

22129

# Statement of Castleford for year ending Now. 30, 1902.

	Amount due the C. C. I. Co	Tons 54056	Tons
	Received from Lake Superior Iron Co.		11850
	Amount still due	42206	
	Other Ores trans. to Castleford		
July	24		
	Falcon Crushed Cliffs Shaft		34
	Total		11884
	Shipped:		
	Antrim Iron Co	95	
	Pen Iron Mfg. Co.	3572	
	Cleveland	7193	
	Ashtabula	1024	
	Total Shipped		11884 .

# ANNUAL REPORT

OF

(Postoffice Address) Abulant Phio	
(Partoffice Address) (Misland Mis	
(Street and No.) 233 Bank	
FRED M. WARNER, Secretary of State,	
Sir:—In accordance with Section twelve of Act No 232, Public Acts of 1885, as amended, the under	rsigned,
Directors, of the The Cleveland-Cliffs Iron Co. Co	ompany,
31	day of
	day of
November 1902.	
1. The business in which the corporation has been engaged, during the year ending December 31, 1902, has been of the	e follow-
ing operator Manufacturing Charcoal Rig Son	
ing character: Manufacturing Charcoal Oig Son	
2. The operations of said company have been conducted at the following place or places:	
(Town or City) Gladstone Della le + Marquette	
(County) Margratte	
3. The corporation during said period has been engaged in the following lines of business not specified in its articles of as	sociation:
More	
A Commence of the Commence of	
4. The amount of authorized capital stock is	5.000,000 =
5. The amount of capital actually paid in is	5.800,000 = 4910.000 =
The amount of capital actually paid in is     The present actual value of the real estate held by said corporation is	5.800,000 = 4.910.000 = 1.670.084.2
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is  (also included in # 10)	5.800,000 = 4910.000 = 1.670.084.21 8-18.511.83
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is	5.800,000 = 4910.000 = 1.670.084, 2 8.58, 511.88 9.083,132,40
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is	
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is	5,449,862.98
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is (also included in #10) 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is (also included in #0)	
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is	5,449,862.98
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is 13. The amount for which the corporation is indorser for members of the corporation is	5.449.866.98
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is 13. The amount for which the corporation is indorser for members of the corporation is 14. The amount for which the corporation is indorser for other corporations is	5.449.866.98
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is 13. The amount for which the corporation is indorser for members of the corporation is 14. The amount for which the corporation is indorser for persons not members of the corporation is 15. The amount for which the corporation is indorser for persons not members of the corporation is	5.649.862.98 1.729.421.01 2anu
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is 13. The amount for which the corporation is indorser for members of the corporation is 14. The amount for which the corporation is indorser for other corporations is 15. The amount for which the corporation is indorser for persons not members of the corporation is 16. The annexed list is a true statement of the names of the stockholders, and the number of shares held by each at the	5.649.862.98 1.729.421.01 2anu
5. The amount of capital actually paid in is 6. The present actual value of the real estate held by said corporation is 7. The liability of said corporation on real estate mortages is 8. The present actual value of personal estate, including credits, held by said corporation is 9. The total liability of said corporation upon chattel mortgages is 10. The total indebtedness of said corporation, secured and unsecured, is 11. The total amount of credits owing to said corporation is 12. The present actual value of the credits owing to said corporation is 13. The amount for which the corporation is indorser for members of the corporation is 14. The amount for which the corporation is indorser for other corporations is 15. The amount for which the corporation is indorser for persons not members of the corporation is 16. The annexed list is a true statement of the names of the stockholders, and the number of shares held by each at the report; also the names and postoffice addresses of each officer and director of such corporation.	5.649.862.98 1.729.421.01 2anu
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	STOCKHOLDERS' NAMES.	POSTOFFICE ADDRESS.	Shares of Stock Held.	+	STOCKHOLDERS' NAMES.	POSTOFFICE ADDRESS.	Shares of Stock Held.
				1.45			
				P			1
-				1			
			1 - 1/1		•		
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	A STATE OF THE STA						
							1
			ALLEGA LINE			· · · · · · · · · · · · · · · · · · ·	- Annahaman
					GIVE HERE DATE OF ORIGINAL INCORPORATION	N: May 14 1891	Mental
					GIVE HERE DATE OF RE-INCORPORATION (IF AN	Y):	
					NAMES OF OFFICERS AND DIRECTORS.	POSTOFFICE ADDRESSES.	
					Am & mather President	Cludand Phis	
					S.H. Made Vice Pres,		
					Ost Shalls	Moryork ny	
					J.H. Sheadle Socretary.  1 m & Mathie Treasurer.	Chodana This	
					mathir Treasurer.		
					Im & mather	Eleveland Ohio	
					JA Made	Sewyok ny	
					Samt mather	alwenne ohi	
					IA Me Bride Directors.  Directors.	alvilana ohi	
					ER. Cokus	Millonghby Shir	
					J. H. Newbory	Detroit Mic	h
					J. N. Newbony J. St. Hoyl Peter White		
					Ceta White	marquitte me	ch
					State of,		
					County of		
	A CONTRACTOR OF THE PARTY OF TH			3	1. JH. Sheadh		1
1		Mary Manager of Participation of the Control of the			named corporation, and that the matters set forth in the forego	ng report are true and correct to the best of my know	
		*			And further, that the within signatures are those of a majority of	f the directors of said corporation.	
					Deg	ned At Sheadle 25th day of March	
			1000			Cott mi	
					Subscribed and sworn to before me, this	day of //lanux	190.3
				8 7			
			The same of		Notary Public in	and for	tate of Michiga
			A-6-1				1318

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The Cleveland-Cittis Jon Co

# ANNUAL REPORT

FOR

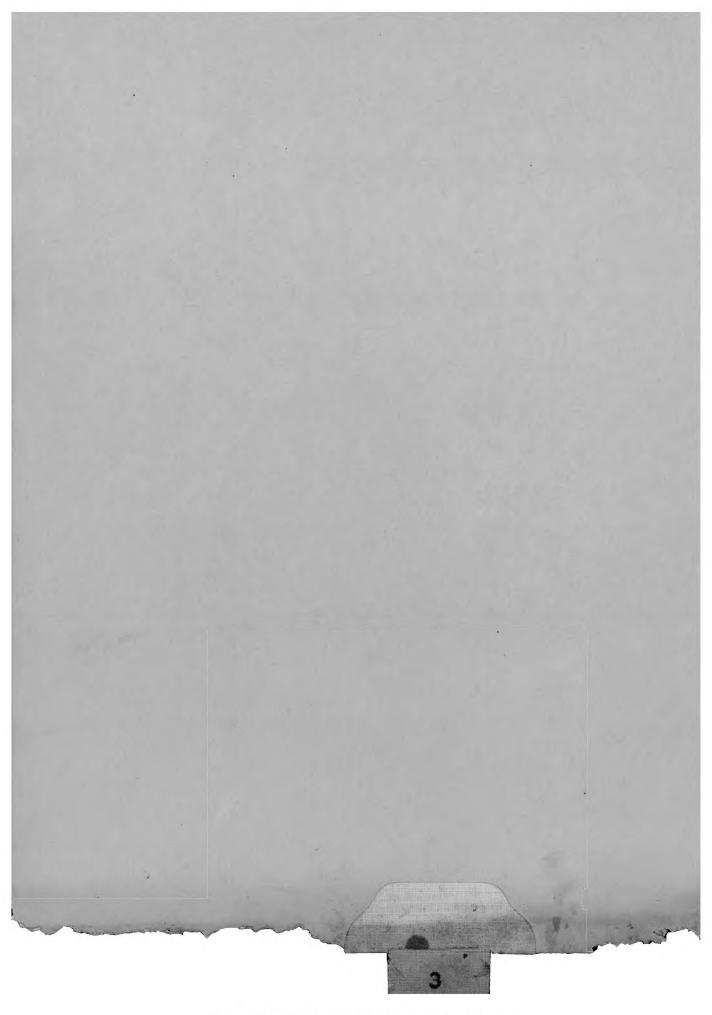
1902.

Deputy Secretary of State.

SEC. 12, ACT No. 232, LAWS 1885. (As amended.)

SEC. 12. Every such corporation carrying on its manufacturing or mercantile business within or without this State shall annually, in the month of January or February, make duplicate reports for the fiscal year of such corporation, which shall state the amount of the capital stock of the corporation, and the amount actually paid in, the amount invested in real and in personal estate, the amount of debts of the corporation, and the amount of credits, the name of each stockholder, and the number of shares held by him at the date of such reports, the name and postoffice address of each officer and director of such corporation, and such other information as the Secretary of State may require; which duplicate reports shall be made on suitable blanks furnished by the Secretary of State on application, signed by a majority of the directors, verified by the oath of the secretary of the corporation, and deposited in the office of the Secretary of State: such duplicate reports shall be so deposited within the said month of January or February. The Secretary of State shall carefully examine such reports, and, if upon such examination they shall be found to comply with all the requirements of this section, he shall file one of them in his office, and shall forward the other by mail to the county clerk of the county in which the office in this State for the transaction of the business of the corporation so reported is situated, and it shall be the duty of such county clerk, upon receipt of such report, to immediately cause the same to be filed in his office. If any of the directors of any such corporation shall wilfully neglect or refuse to make and deposit the report required by this section, within the time herein specified, they shall each be liable for all the debts of such corporation, contracted during the period of such neglect or refusal, and subject to a penalty of twenty-five dollars, and in addition thereto the sum of five dollars for each and every secular day after the first day of March in each year during the pendency of such neglect or refusal, which penalty shall be for the use and benefit of the general fund of this State. The Secretary of State shall, during the last week in June in each year, report to the Attorney General, in writing, the name and postoffice address of each and every corporation which has failed to comply with the provisions of this section, and upon the receipt of such report it shall be the duty of the Attorney General to in. stitute proceedings in any court of competent jurisdiction to collect said penalties, and all necessary expenses in. curred by the Attorney General in such proceedings shall be audited by the Board of State Auditors, and paid from the general fund of the State. And in case a corporation organized and existing under the provisions of this act shall be dissolved by process of law, or whose term of existence shall terminate by limitation, whose property and franchises shall be sold at mortgage sale or at a private sale, or for any reason the attitude of the corporati ward the State shall be changed from that set forth in the articles of association, except as is provided in sections

two and seventeen, it shall be the duty of the last board of directors of such corporation, within thirty days thereafter, to give written notice of such change to the Secretary of State and the county clerk of the county where the office of such corporation is located, signed by a majority of such directors, which said notice shall be recorded as amendments are required to be recorded; and in case of neglect to give such notice they shall be subject to the same penalties provided in case of neglect to make annual reports, which said penalties shall be collected and applied in the same manner as in case of neglect in making annual reports. It shall be the duty of the Secretary of State during the month of December, A. D. eighteen hundred ninety-nine, to cause to be mailed to every corporation subject to the provisions of act number two hundred thirty-two of the public acts of eighteen hundred eighty-five, as amended, a printed copy of this act. The neglect or refusal to file the reports required by this section to be filed shall, as to managing officers and directors, and officers and directors actually engaged in conducting the business of the corporation of which they are such officers or directors, be deemed to be wilful when the report required is not filed within the time herein limited. Whenever are corporation has neglected or refused to make and file its port within twenty days after the time limited in this section, the Secretary of State shall cause notice of that act to be given by mail to such corporation, and to each officer and director thereof, directed to their respective postoffice addresses, and the notice to the corporation shall be accompanied by blanks upon which to make such report. The certificate of the Secretary of State, or Deputy Secretary, of the mailing of such notices and blanks shall be prima facie evidence in all courts and places of that fact, and that said notices and blanks were duly received by said corporation, officers and directors thereof severally. And in case of all officers and directors other than those managing or actually engaged in the conduct of the affairs and business of the corporation, the neglect or refusal to file the reports required by this section shall be deemed to be wilful, after the Secretary of State shall have given the notice above provided for, if such report be not made within thirty days thereafter: Provided, Flour milling corporations shall make and deposit annual reports in the month of July or August, and for refusal or neglect to make and deposit the reports required by this section before the first day of September in each year, such corporation or any of its officers or directors shall be liable for all the debts of such corporation contracted during the period of such neglect or refusal, and shall be immediately subject to all the penalties provided in this section. The first report under this law shall be made in the vear nineteen hundred. All actions and suits, based on the neglect or refusal of the officers or directors of such corporations to make and deposit the reports required by after such neglect or refusal has occurred, and not afterwards.



Annual Report\_Mining\_2069\_1902\_1 of 4\_304.tif

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CLEVELAND IRON MINING COMPANY.	
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	• •
Year ending November 30, 1902.	
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#### CLEVELAND IRON MINING COMPANY.

Ishpeming, Michigan Jany 20, 1903.

Mr. Wm. G. Mather, President,

Cleveland, Ohio.

Dear Sir:

I beg to submit herewith my annual report of the operations of the mines of the Cleveland Iron Mining Company.

The detailed statements, inventory and book of maps, forming a part of this report have been sent you.

# HARD ORE.

### MORO MINE.

Each stope has been numbered on the map for convenience of description, and the extensions for the year tinted.

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

#### FIRST LEVEL.

The ore in the cross cut North of the shaft was mined out about two months after the date of the last annual report. The foot and hanging came together only 20 feet beyond the face of the stope, as it existed on November 30th 1901.

#### SECOND LEVEL.

This level is exhausted.

#### THIRD LEVEL.

No.8 contract which had just started to stope East on the date of the last annual report extended the stope 150 feet when the ore was cut out by the foot and hanging coming together. The ore averaged about 25 feet wide and 20 feet high, and was of fair quality. No.8 was then moved 50 feet North, and the small vein of ore at that point stoped out 50 feet East. The deposit was only 15 feet wide and 15 feet high, when it cut out. To the West the ore was very small. No.12 has continued the exploring drift 345 feet North making the total length of the drift 870 feet.

Moro.

No ore has been encountefed, the material changing from jasper to slate and back again. The drift was carried 60 feet North and 100 feet West of the diamond drill holes in the meadow. The elevation of this level is 35 feet below the ore cut by the drill, but it was figured that the pitch of the ore would carry it to this depth. As no ore was found a cross cut has been started East to get directly under the ore, from the which a raise can be put up to explore, deposit shown by the drills. In a general way this drift has been very disappointing, as it was confidently expected that ore would be found under the meadow. The ground to the North and West will now be explored by diamond drilling. The breast of the drift is only 440 feet South of the old workings in No.3.

I still have hopes that ore may be found North of the priginal Moro deposit. There are strong evidences of an anticline with its corresponding sincline, and the ore should occur in the sinclinal fold.

#### FIFTH LEVEL.

A raise has been put up from this level, and No.4 contract is now working 150 feet South of the shaft, taking the bottom below the third level. The ore is what is locally known as "Green Ore" and runs about 56% in iron. It is possible to mine this because all the other ore now coming from this shaft is of the old Cleveland grade and runs from 63% to 65% in iron. There is probably 2,000 tons of ore left at this point.

# SIXTH LEVEL.

Fifty feet South of the shaft a raise has been put up to the 5th level and is taking the 5th level nottom at this point. No.8 contract has been working here for two months, and there is not more than 2500 tons left. The ore will average 63% in iron. This is the only mining that has been done on this level during the year.

The cross cut 50 feet West of the shaft, which had just been started at the date of the last annual report has been extended 515 feet North without striking

Moro.

any ore. The drift for the entire distance was in soap rock and slate. The ore found on the third level should have been crossed at 360 feet. It is impossible to say whether the drift is too far East or West, beacuse there is no uniformity to the dip or pitch of the ore bodies. North of the shaft. A raise is now being put up at an angle of 50° to the East to reach the ore shown on the third level. A diamond drill will soon be put opposite this raise to test the ground to the West.

It is not reasonable to suppose that the ore body on the third level does not extend to this depth, as the work at that point indicated it was the apex of a good defined deposit. The ore in the bottom of the stope being much larger than at the top. The formation however is so faulted that it is impossible to draw definite conclusions from the formation at any one point.

7th- 8th- 9th- and 10th Levels.

These levels were exhausted with the exception of the shaft pillars, which cannot be taken while the mine is in operation.

#### To the hear he are god with LEVEL. Letter, and the desired and the

No.2 stope referred to last year was extended 60 feet South West, when the ore was cut out by the pitch of the hanging. The ore was of high grade.

No.11 has been extended 170 feet North West, and it is now within 30 feet of the Lake Superior line. The ore has averaged 25 feet in width, with ore in the back and will run about 63% in iron

#### TWELFTH LEVEL.

No.7 stope has been extended West 100 feet, 25 feet wide and 20 feet high. No.6 has been driven 120 feet South West, averaging 20 feet wide, and 20 feet high.

At this depth the North and South deposits appear to have come together. The ore is 100 feet wide, and a very large pillar is being left between the two stopes. The breast of each of the stopes is about 230 feet from the Lake Superior boundary.

Moro.

# THIRTEENTH LEVEL.

During the year the shaft was sunk 78 feet on the underlay, or to a vertical depth of 50 feet. A drift has been driven 220 feet to the West, the first 80 feet soap rock and the balance in siderite. From the dip and pitch of the formation above, the ore should be struck in about 35 feet more drifting. This will only leave 300 feet to the boundary.

The deposit seems to be flattening with depth, and if this is proved after the ore on this level is reached, it will probably not pay to sink the shaft again. It can be readily seen that unless some further deposits are located to the North that the life of this mine is limited.

The ore in the bottom of the mine is of high grade, the average in iron being higher than the Cliffs Shaft Mine.

# SURFACE.

In order to increase the stock pile ground the Wallenstein house has been moved. It was found that it would be very much cheaper to do this than to attempt to extend the stock pile to the West, on account of the large amount of filling required at that point.

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

Location	Floors	Pillars	. Partly developed	Totals	
lst level	2000	a control	The state of	2000	1. 14
3rd level	7850		, at the time.	7850	
5th level		4500		4500	
9th level	2000	3000	1896 T - 11 /4	5000	cotter.
10th level	9600	4 1 1 1 1 1	or all the product the first	9600	Pagnas,
llth level	40000		1000	41000	CET *
12th level	14500	6000	4000	24500	
Totals	75950	13500	5000	94450	

Total ore in sight including shaft pillars, 94,450 tons.

It will be noticed that there is in round numbers 20,000 tons less than we estimated last year. It is probable that the developments on the 13th level will show up enough ore to bring it to the total of 1901.

#### AVERAGE ANALYSIS OF MINE SAMPLES FOR 1902.

The state of the s	Iron	Phos	
Scotch Ore	61.50	•152	
 Coarse Scotch Ore	62.30	.137	

# AVERAGE ANALYSIS OF CARGO SAMPLES FOR 1902.

The are the top but the transfer to the Iron Scotch Ore 60.70

The cost of Mini	ng 76024 t	ons of ore	has been as	follows:
	1902	1901	Increase	Decrease
Product Caracas Advantage	76024	76085		61
General Expense	.051	•046	•005	ALL ALL ST
Maintenance	.064	.078	A THE SHOP	•014
Mining Expense	1.111	1.098	.013	
Cost of Production	1.226	1.222	.004	31
DEPRECIATION				
Inventory		.030	1 - E - 18	•030
Improvement	•019	•003	.016	+ 4
New Construction		.005		•005
Total Depreciation	.019	•038		•019
Taxes	•050	•050		
Central Office	.024	.021	•003	
Cost on stock pile	1.319	1.331		.012
Loading & Shipping	.047		.047	W
Total cost	1.366	1.331	.035	
Improvement .019			0.0	
Stockpile dock extension, and	4		0.00	24-
installing aux.pump.		5		

#### ORE SHIPMENTS FOR 1902.

			1		1
A. I. B. L. B.	POCKET	STOCKPILE	TOTAL	LAST YEAR	
Run of Mine	21385	1529	22914	0	
Coarse Ore	15986	9928	25914	0	
Fine Ore	5735	14248	19983	0	
Total	43106	25705	68811	0	-

DIVIDED IN GRADES AS FOLLOWS: CRUSHED SCOTCH COARSE CLIFFS SHAFT CLIFFS SHAFT TOTAL Run of Mine 22914 22914 25914 25914 Coarse Ore 17365 Fine Ore 19983 2618 Total 25532 25914 17365 68811

ORE STATEMENT NOVEMBER 30th, 1902.

The sign of the following the bond of the sign

	TES OF EXTENSES IN	OVIEMBER COURT EFOR		
En Shelp	11007	7 SCOTCH	LAST YEAR	
On hand December 1st, 1901	, 75X	79232	3147	4
Output for year	.00%	76024	76085	
Total		155256	79232	
Shipments	* * * * * * * * * * * * * * * * * * *	68811	0	
Balance in stock November 30, 190	02,	86445	79232	

#### STATEMENT OF COMPARATIVE WAGES. -

I . The

The Crack to Tile.	1902	1901	Inc or Decrease 1902
SURFACE			. 1
Total number of days	10530	93023	
Average rate	1.75	1.77	Dec .02
Amount	18462.94	16475.50	
UNDERGROUND		20190	
gras	1.3. 1.3	. 25 .	
Potal number of days	23679	240142	
Average rate	2.15	2.10	Inc .05
Moro.	6	VI TOTAL STATE OF THE STATE OF	

	STATEMENT OF COMPAR 1902	1901	Inc or Decrease 1902
Amount	50970.73	50532.74	
Total days	34209	333171	
Average rate	2.03	2.01	Inc .02
Total amount	69433.67	67008.24	

COLD VALUE OF THE PARTY OF THE				-		
STATEMENT	OR	EXPLOSIVES	USED	FOR	BREAKING	ORE.

KIND Q	UANTITY	PRICE	AMOUNT	AMOUNT 1901		
50% Powder	48950	12	5873.00	6319.56	0_819	
Fuse	65700	4.25	279.25	321.05	V 1.	
Caps	17250	6.00	103.50	107.80	5500	
Exploders			1.7	4.46	2.11-3.	
Wire				3.60		
Total		0.00	6255.75	6756.47		
			1902	1901	100	
Product	10 1 10		76024	7.6085	*	
Lbs of Powder pe	r ton of ore	9	•064	* •069	1000	
Cost per ton for	explosives		.082	.089	70-1	
Decrease			•007	6.4		

# AVERAGE WAGES AND PRODUCT.

Product 76024 tons, 1902.	SURI	FACE	UNDER	FROUND	TOTA	T	
Product 76085 tons, 1901.	1902	1901	1902	1901	1902	1901	
Average No.men working	37	30	82	80	119	101	
Average wages per day	1.75	1.77	2.15	2.10	2.03	2.01	
Averg. wages per Mo 25 days	43.75	44.25	53.75	52.50	50.75	50.25	
Averg.prod. per mam per day	7.06	8.18	3.14	3.17	2.17	2.28	
Labor cost per ton	.243	.217	.670	.664	.913	.881	
Diff.in labor cost per ton	+.026	196	+.006	010	+.032	207	
Averg. Prod. Breaking & Trammg			5.43	4.89			
Average wages for contractors			2.37	2.34			
Average wages for miners		5.7	2.37	2.34		A STATE OF THE STA	
Average wages for trammers		7	1.85	1.85			

#### NO.3 MINE.

This mine was closed in June 1892, and the workings are now filled with water. When eperations were suspended, 150,000 tons of ore were reported in sight, and it was producing at the rate of 95,000 tons per year.

# HARD ORE LOCATION.

No work has been done on the houses in this location, except that required for ordinary maintenance.

Reference is made to the Summary of House Repairs for details of this expenditure.

The location, as usual, was cleaned in the spring, and everything in excellent sanitary condition.

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AV SEA VENEZ : PROPER.

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THE COLD WATER TO SHAPE TO

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Wednesday to the second of the

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TARREST The Charles there and an arm were the he has been also There, I be the stronger our angulates, It , will true these participates in the lift, and was real day we the type of DP, 100 mover past year. Common Principal Control of the company of the Augustian and the con-Proportion to be the property and the course. Milyon to its made to the term of the bound to the off EDICAR SET AN DOUBLE WEEK IN THE WALL THE REPORTED AND THE CONTROL the state of the state of the state of Moro.

The cost of mining 477831 tons of ore this year has been as follows:

	1902	1901	Increase	Decrease	
Product	477831	468883	8948		
General Expense	.021	.022		.001	
Maintenance	•047	•047			
Mining Expense	•770	.818		•048	
Cost of Production	.838	.887		•049	
Exploratory		•004		.049	
DEPRECIATION					
Inventory	•001	•006		•005	
Improvement	•001	.018		.017	
New Construction	•091	•034	•057		
Lake Ang. Drainage		•006		•006	
Total Depreciation	•093	•064	.031		
Taxes	•037	•034	•003		
Central Office	•026	.023	•003		
Cost on Stockpile	•994	1.012	.037		
Loading and shipping	•012	.011	.001		
Total cost	1.006	1.023	.017		

In comparison with the cost of last year, our mining expense shows a decrease of 4¢ per ton, and a decrease in the General Expense items of .9 of a cent per ton.

		AMOU.	NT CO	ST	OUTPUT I	BY GRA	DES LA	KE BESS.	LAKE	SILICA	TOTAL
General Expense Maintenance Mining Expense Air pipes		9783 22685 859	.67 .0	21 47	South De 2nd Leve 3rd Leve Overrun	el	1	56204 4022 5254	46244 108629 154311	3167	205615 108629 158333 5254
Compressors Hoisting Steam Pumps Sinking, "Repairs of Shaf' Mining Captain & Bosses Dry House Top Landing & Tramming Stocking & Sorting		8700 7630 8183 2408 6794 959 5658 7367	.57 .0 .96 .0 .19 .0 .06 .0 .75 .0 .05 .0	18 16 17 05 14 02 12	For 1903 Increase Decrease	9	1	65480 86203 20723	309184 282680 26504	3167	477831 468883 8948
Lake Ang. Dr. Pumping Ex Total Year 1901	pense	4912 85942 87577	.09 .1	10 79 88			ń	,			
	SOUTH				3rd LEVI			1902	TOTAL		1.64.1
	205615		108629			cost	47783	1 tons	468883 Amount	Cost	581
Drifting	Amount 17949.42	.088		Cost	12153.36		32991.29		30154.92	.064	
Breaking ore	84553.99		42918.39		61873.24		189345.62		185619.20	.396	
Tramming	12848.24	.062			A STATE OF THE PARTY OF THE PAR		29576.95		37506.07	.080	
Filling	15010151		917.77			.011	2761.60		7319.27	.016	
Timbering	23526.96	.113			20938.63	.132	58564.24	.123	62410.89	.133	
Cave In			1283.55	.012			1283.55		4825.47	.010	. 15.0
Total	138878.61		68938.44		106706.20	.674	314523.25		327835.82	.699	
Year 1901	122471.99				63456.71	.765		.699			
Add Cost pr ton, Acts ab.		.179		.179		.179		.17.9			
Cost of Production 1902	5	.854		.814		.853		.838			
Cost of Production 1901		.843		.902		.953		.887			
Decrease	. yes	677		.088		.100		.049			
Increase		.011					SUMMARY	1902	1901		100
						Genl	ng Cost .Exp Item: Total	.659	.699 .188 .887		

On hand December 1,

Output for year

*	BESSEMER	LAKE	LAKE BES. SIL.	TOTAL	TOTAL LAST YEAR
, 1901	2274	119545		121819	59719
- 1 : 2	165480	309184	3167	477831	468883

167754 428729 Total 3167 599650 528602 406783 Shipments 167754 277506 3167 448427 Balance in stock 151223 121819 151223 Increase in product - 2% -8948

# AVERAGE WAGES AND PRODUCT.

Product, 477831 tons, 1902	SUR	FACE	UNDER	RGROUND	TOT	AL
Product, 468883 tons, 1901	1902	1901	1902	1901	1902	1901
Average number men working	84	90	435	434	519	524
Average wages per day	1.94	1.96	2.23	2.19	2.18	2.15
Average wages per mo.25 days	48.50	49.00	55.75	54.75	54.50	53.75
Average Prod.per man per day	17.99	16.69	3.80	3.73	3.14	3.05
Labor cost per ton	.107	•117	•581	•588	.688	.705
Difference in labor cost per	on .010	•006	007	.022	008	.016
Avg. Prod.Breaking & Tramming		12	6.31	5.83		
Average wages for Miners			2.28	2.24		
Average wages for trammers		N	2.28	2.24		
Average wages for contractors		7	2.28	2.24		

#### AVERAGE ANALYSIS OF MINE SAMPLES.

	Iron	Phos	
Lake Bessemer	64.70	•038	
Lake	60.20	•108	
Lake Bessemer Silica	47.67	.042	

LAKE MINE.

ODT	SHIPMENTS	TIOD	7002	

	POCKET	STOCKPILE	TOTAL	TOTAL LAST YEAR	
Bessemer	101455	66299	167754	203329	
Lake	173425	104081	277506	203454	
Lake Bessemer Silica	3167		3167	1.546	
Total	278047	170380	448427	406783	
Total Last Year	269755	137028	406783	1 12	
Increase - 10% -			41644		

#### AVERAGE ANALYSIS OF CARGO SAMPLES.

AANTANI MAMINIO OF	Olitico branchisto
	Iron Phos
Lake Bessemer	64.00 .041
Lake	60.00

# STATEMENT OF COMPARATIVE WAGES.

	1902	1901	Inc or Decrease 1902
SURFACE	.ur .nv		1.00 40° 4VCa
otal number of days	262734	28096	1. The second of the second
Average rate	1.94	1.96	Dec .02
Amount	50936.28	55009.30	1.14
UNDERGROUND		y .	
Total number of days	124420	125786	0,70
Average rate	2.23	2.19	Inc .04
Amount	277568.12	275631.68	
Total days	1506933	153882	195
Average rate	2.18	2.15	Inc .03
Total amount	328504.40	330640.98	.1.25

LAKE MINE.

STATEMENT OF TIMBER USED FOR THE YEAR 1902. ft. Brd. Measure. AMOUNT 1901 SIZE LINEAL FEET AVG. PRICE AMOUNT 73928 6 to 8" 56868 .02 1137.36 561.44 7137.44 268333 6238.08 8 to 10" 206410 .030 10 to 12" .048 7493.18 6586.17 466675 154528 187100 12 to 14" 37420 .065 2427.30 1847.95 48975 14 to 16" .09 587.70 .750.06 6530 156.04 99.88 18018 16 to 18" 1716 .091 .039 18039.66 16982.94 1063029 Total 463472 954923 17504.47 Total 1901 424012 .040 16982.94 LAGGING. 5 foot 931875 .52 4845.75 7 foot 535752 .598 3202.51 Poles 47943 .0086 411.18 Total 1515570 .558 8459.44 Total'01 1441735 .56 8130.34 1902 1901 .904 Feet of timber per ton of ore .97 3.075 Feet of lagging per ton of ore 3.066 3.27 3.400 Feet of lagging per foot of timber Cost per ton for timber and lagging .076 .054 Equivalent of stull timber to board measure 1063029 954923 2.04 Feet Board Measure per ton of ore 2.22 Total product 477831 468853

LAKE MINE.

# STATEMENT OF EXPLOSIVES USED FOR BREAKING ORE.

KIND	QUANTITY	PRICE	TUOUNA	AMOUNT 1901	A comment of the
50% Powder	18572	.12	2216.64	1399.20	
40% Powder	69050	.10½	7250.25	7365.75	
Fuse	240400	4.25	1021.71	903.07	
Caps	79 508	6.00	477.05	441.69	
Total			10965.65	10109.71	A PARTIES AND A
		A 20	1902	1901	
Product			477831	468883	
Lbs of Powder per ton of ore			183	174	
Cost per ton for explosives			•023	•021	
Increased cos	st per ton		.002		

ESTIMATE OF ORE IN SIGHT DECEMBER 1st, 1902.

BOILMAIN OF	ORE IN SIGHT DEC	Tar 11 Tar	1	
OLD MINE.				
Above 1st level, East side, shaft pil	llar,	53,000		
Above 1st level, West side, shaft pil	llar,	53,500		
Above 2nd level.				
East Side North East, shaft pillar,		150,000	L. 1	
237' sublevel		25,000		
2nd level South East		31,000		
West Side		ent		
South West		4,500	. 8	
North West, shaft pillar		155,000	365,500	
Above 3rd level.		A. 140	**	
Estimate 1897, 2nd to 3rd levels, Mined on 271 & 290' subs	2,000,000		1,866,000	
Lake.				
	14			

# ESTIMATE OF ORE IN SIGHT, Continued.

Total		2016 1204	2,802,000 tons	
Above 3rd level	117,000	11 .00	314,000	
Above 300' level	153,000	alitin , in	15.45	*
Above 2nd level,	44,000	1127		
South Side Deposit	a 100	White the second	\$27.4	
Above 4th level practically	developed		150,000	

# COMPARATIVE STATEMENT MAINTENANCE ACCOUNT.

The state of the last	1902	1901	Increase	Decrease	
Tracks and Yards	3252.48	3146.56	105.92		
Docks, Trestles & Pockets	4297.51	1194.48	3103.03		
Buildings	513.62	307.12	206.50		
Shop Machinery	14.00	109.53	17.	95.53	
Boilers	647.25	429.91	217.34	-	
Hoisting Machinery	893.36	1059.90		166.54	
Compressors & Air Pipes	453.79	410.40	43.39		
Steam Pumps	426.82	231.77	195.05		
Portable Machinery				1.3	
Top Tram Engine & Cars	899.77	905.99		6.22	
Skips & Skip roads	746.86	801.26		54.40	
Underground tracks & Cars	1299.69	1087.54	212.15		
Electric Tram Plant	9225.84	12199.88		2974.04	
Testing Boilers & Engines	14.68	105.68	2. 4.70	91.00	
Repairs of stokers		73.23		73.23	
Fire in coal pile	* Yat * *-	158.62		158.62	
Total	22685.67	22221.87	4083.38	3619.58	
Increase for 1902			463.80		

15

While the cost of maintenance for 1901 was \$1885.68 less than for 1900, that for 1902 shows a net increase over 1901 of \$463.80. The large increase in the account of Docks, Trestles and Pockets is responsible for the account showing an increased cost for the year. Itemizing the various accounts shows the causes for both increase and decrease during the year.

TRACKS AND YARDS., Increase \$105.92. The expense in connection with joint tracks for the year was \$107.06 over that of 1901, leaving the mine expense about the same as for previous year. The cost of moving the main tracks to the North at the point of the cave on Lake Superior land was \$1230.37, our portion being \$410.12.

DOCKS, TRESTLES AND POCKETS. Increase \$3103.03. The cost of filling stock pile ground for Lake Ore, South of tracks, which is constantly settling was \$2347.94, an increase of \$2102.09 over 1901, when very little filling was done.

The cost of additional stocking ground at Presque Isle of \$958.56 is charged to this account.

BUILDINGS. Increase \$206.50. The comparative statement below shows the cost on each building.

BUILDINGS.

	1902	1901	Increase	Decrease
Office	29.79	26.71	3.08	
Warehouse	1.82	it, i	1.82	.02
Shops	20.17	11.02	9.15	
Shaft House	131.59	60.45	71.14	
Engine House	23.80	70.02		46.22
Dry House	197.57	138.92	58.65	254.00
Hospital	108.88	10 mm	108.88	
Total	513.62	307.12	252.72	46.22
Increase for 1902	1 m	0.00 12 (0.0	206.50	

The item of "Hospital" covers the Lake Mine proportion, 83%, of the amount paid by the C. I. M. Co, for additions to Ishpeming Hospital, of Elevator and cellar. The total we paid was \$131.18, being for our one-tenth in the building.

(The Iron Cliffs Co., paying a like amount)

BOILERS. Increase \$217.34. Includes cost of scales for weighing coal, \$107.95. Replacing pipes and valves and grate bars, Cost \$110.78.

HOISTING MACHINERY. Decrease \$166.54. The hoisting plant at No.3 shaft was taken up in January, which reduced the maintenance cost on account of having to only operate, the main plant for No.1 shaft.

COMPRESSORS, RECEIVERS AND AIR PIPES. Increase \$43.37. Ordinary repairs only.

STEAM PUMPS. Inrease \$195.05. Placed pump in No.4 winze at cost of \$61.77, and overhauling some of pumps.

UNDERGROUND TRACKS AND CARS. Increase \$212.15. For rails and ties for sublevels between 2nd and 3rd main levels.

ELECTRIC TRAM PLANT. Decrease \$2774.04.

Following is detailed statement of the various items making up this account, and the comparative costs as compared with 1901.

ELECTRIC TRAM PLANT.

	(4) A (4)	1902	1901	Increase	Decrease	
	Engine	122.46	35.47	86.99		
	Dynamos	4 ,0	2.69		2.69	
-	Motors	4619.88	2961.23	1658.65	14.00	
	Wiring	406.98	675.91	4.5	268.93	
	Track & Cars	4076.52	7503.15	158.66	3585.29	
	Wiring 3rd level	15.5.	303.81	2.17.70	303.81	
	Tram 3rd level		717.62	775.	717.62	
	Total	9225.84	12199.88	1745.64	4719.68	
Lake	Decrease 1902	17			2974.04	1

ENGINE. Increase \$86.99. Ordinary repairs.

MOTORS. Increase \$1658.65. (previous year's decrease \$1087.46)

The comparative cost for each motor is as follows:

76	402 611	1902	1901	Increase	
	Motor No.1	918.62	466.52		
4.4	Motor No.2	644.53	752.16		
	Motor No.3	719.05	450.12	ea o og	
	Motor No.4	599.29	255.19	4-	
	Motor No.5	898.39	218.91		
	General Expense	840.00	818.33		K.
Wage	Total	4619.88	2961.23	1658.65	
Extraordinary included in a		1224.75	627.94	596.81	
45-4 4	Ordinary repairs	3395.13	2333.29	1061.84	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Motors No.1 and No.3 had a collision which cost for repairs \$819.19, and Motor No.5 was equipped with new armature, wheels etc.

WIRING. Decrease \$268.93. No extensions or alterations during year.

TRACKS AND CARS. Decrease \$3426.63.

	1902	1901	
Tracks	1957.42	1798.76	
Cars, Repairs to old cars, 1151.72 Repairs to new cars, 967.38	2119.10	5704.39	
Total	4076.52	7503.15	

During the year many of the old bottom dump cars were discarded, there being now only 17 in use on 2nd. level.

LAKE MINE.

The following statement shows the cost per ton for maintenance of electric

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Tram Plant, as compared with 1901.

Product, 477331 tons, 1902	190	2	1901		
Product, 467712 tons, 1901	Amount	Per ton	Amount	Per ton	to sta
Engines	122.46	.000	35.47	•000	
Dynamos		100	2.69		0.50
Motors	4619.88	.010	2961.23	•006	
Wiring	406.98	.001	675.91	.002	
Tracks and Cars	4076.52	.008	7503.15	.016	
Total	9225.84	.019	11178.45	.024	

A7 marian are . The .

LAKE MINE.

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

OLE	MINE		V 4.4	DEVELOPMENT	MINED IN STOPES.	
		No.		Feet	Feet	
NE	190'	sublevel	* 5.17		23	
	206'	11		128	410	
7	223'	11		144	200	
	271			233		
	~ -					
SE	3 20	level	""	65		
D E	Sru	Tever		00		
27 777					00	
N W		sublevel		57	20	
	223'		40 .0	82	120	
	237'	11			79	
S W	2 nd	level		45		
	271'	sublevel		51	830	
	290'	11		98		· ·
			2.00		1 1 1 1	
	170'			105	69	
	180'			95	80	
	206			9,5	355	
	237'			200	102	
		level		188	155	
	271'	sublevel		429	155	
		Total		1720	2598	
SOU	TH SID	E				
		sublevel		16	214	
	166'			1642	362	
	202'	11		42	631	
	214'	11	*	50	127	
	224	11		1371	76	
		level		3702	49	
		sublevel		271		
	280'	11		50	50	
	300'				106	
		11		113½		
	312'			67	140	
	3rd	Level		1036		
		Metal		0054	22071	
		Total		2074	11871	
	Rais	e to surface f	rom 2nd level	182		
No.	4 Shaf	<u>t</u>		-		
	D			100		
		ting on 4th le		130		
		from surface		75		
		ting on 2nd le		104		
	Rais	ed & Timbered	above 2nd level	96		
		ed above 2nd,		18		
		ed from 3rd le		20		
		ting on the 3rd		495		
	2121	Total	20102		1	
		TOPAT		938 20		

LAKE MINE. .

- 10- \* 180 mil

THE RESERVE

h ---

M. And

The state of the s

# Drifting and Raising for the Year, Cont'd.

RECAP.	MAN TENENT	J. To St. St. W. C.	
dia ray	Development	Mined in the stopes.	
Old Mine,	Feet 1720	2598	
South Deposit	2074	$1187\frac{1}{2}$	
Raise to Surface from 2nd 1	evel 182	196	
No.4 Shaft	938	A B	
Total	4914	3785½	
Grand Total	1.	8799 <del>1</del>	

# FATAL ACCIDENTS.

There have been two fatal accidents during the year.

On November 1st, Daniel Beccken was killed by being crushed between the cars and an ore chute. Beccken was employed to clean the tracks, and at the time of the accident was standing between the train and the timbers, where there is plenty of room for several persons to be without danger. When the brakeman called to him that they were going to start the train, he stepped between the cars, intending it is presumed, to ride to the shaft. Instead of going forward however, the train was backed up, and in this way he was caught and crushed. There is a strict rule against the men riding on the cars. In this case the accident happened so quickly that there was no opportunity to warn him or stop the train.

The second accident occured on the 10th of November. Mat Besola while cleaning a chute was struck on the head by a piece of ore which fell from the cribbing above him.

Both these accidents were beyond the control of the Captain and shift bosses, and can in no way reflect on their care and diligence.

The record for accidents at our Ishpeming mines has been exceptionally good this year.

The accident reports sent you and the evidence before the Coronoer's Jury gives full particulars of each of these occufences.

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

South East and North East.

During the year the 206 and 223' sublevels have been exhausted.

237' sublevel, South and North East.

This sub has been opened from the 9th room East to the 11th room East, and stoping has now begun. All the ore from this sub will come from between the old

stopes. This part of the mine is badly mixed with rock, and the ore is of low grade, and high in alumina.

These two conditions materially increase the cost of mining, but it is imperative that the ore be mined now, so that caving will proceed uniformly. This sub level will be exhausted in four months. Below this the ore will be taken through the 3rd level.

271' sublevel North West and South West.

During the year the greater part of the ore on this sublevel North West has been mined out. There still remain a few pillars between the 8th and 20th rooms North West, which are now being stoped. On the South West the ground has been opened, but very little mining has been done. The 9th, 10th, 11th and 12th rooms are filled with mud above the second level, and extreme care will be necessary when caving on this sublevel to prevent a run of this material. It is likely that a small amount of ore will be lost, as it will be necessary to leave a back of ore to protect the men when taking out ore below.

in phosphorus to use in the Bessemer mixture.

291' sublevel North West and South West.

This sub has been opened up from the 7th room North West to the 26th room South West. All the work up to this time has been in development, and mining has not yet begun.

271' sublevel North East.

Two raises have been put up from the third level East of the 7th room, and the sublevel opened 250 feet East and 100 feet South, preparatory to mining, when all the ore has been removed from the 237' sublevel.

# 2ND LEVEL.

The pillars between the 15th and 18th rooms have been mined to the sill floor, the ore being taken from the 271' sublevel.

The work in this part of the mine was exceedingly difficult and dangerous, owing to the adjacent rooms being full of mud. Fortunately no accident of any kind occured, which was due to the extreme care exercised in the work.

The 12th, 13th and 14th rooms are full of mud, and the pressure is so great that it would be extremely hazardous to the men and the mine to attempt to remove the pillars. Fortunatly the ore at this point is narrow and lean, and the loss by reason of leaving pillars will not amount to much. Under the circumstances we would certainly not be justified in making the attempt.

## Market Service and a ser had a contribute the text of the service of the service

No drifting has been done in the North deposit. Six raises however have been put up to the 271° sublevel. Two in the North East and four in the South West.

In the South deposit a drift was carried East 400 feet to the foot wall. The first 40 feet in rock, the balance in ore.

To the West of the main drift a circular drift has been completed, connecting with the South end of this drift. There was very little ore developed, and for this reason the estimate of ore in sight in the South deposit is much less than was anticipated in the last annual report. We still hope that there may be ore West of this drift. As yet no work has been done to prove up the ground. There is about 250 feet between this and the Lake Superior line.

During the coming year it is proposed to test the depth and dimensions of the ore below the 3rd level with a diamond drill.

## SOUTH DEPOSIT.

All the ore above the 202' sublevel in the North West corner near G raise has been mined, excepting about 600 tons next the Lake Superior line.

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Lake.

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Below this sublevel the ore is only 15 feet wide and 150 feet long. pitching very fast towards the West. A raise from the second level shows that the ore does not reach to within 15 feet of this level.

There will hardly be to exceed 4,000 tons more to come from this deposit.

On the 224' sublevel at G raise there is still about 6,000 tons left. Perhaps one
half of this ore is too high in phosphorus to put in the Bessemer mixture.

of the 2nd level. The ore at this point is very narrow, and not much is expected below this level.

## 300' SUBLEVEL.

All the ore on this level East of No.3 shaft has been mined. To the West practically no work has been done during the year, as no more ore can be taken from this sublevel until the ore above is exhausted.

## 312' SUBLEVEL,

Seven raises have been put up from the 3rd level, East of the main drift, and a sublevel opened below the 300 foot level. The deposit at this point is 300 feet long and 175 feet wide. A large part of this year's product has come from this sub. There are still some pillars left, which will last until the end of February.

Twelve feet below this sub another sub has been started on the extreme East end of the deposit.

No work has been done on this sublevel West of the main drift, for the reason before explained. West of the main drift seven raises have been put up from the 3rd level to the 300 foot sublevel, and everything is in readiness to begin mining, as soon as the ore above the 2nd level is exhausted.

B raise which has been used as a second outlet for the men in case of accident to the main shaft, began showing weight early in the year. Supporting this raise are several pillars of good Bessemer ore, which must be taken, if at all, before work on the 2nd level is abandoned.

Lake 25

Considering the expense of maintenance, and the amount of ore that was tied up, it was thought advisable to put a new raise to surface in the diorite foot which would be absolutely permanent. This raise starts just above No.3 shaft, and is now 230 feet on the incline, and should hole in 50 feet more.

## No.4 SHAFT.

The cross cut from the second level has been extended 100 feet to the line of the shaft, and the shaft raised and timbered for 100 feet. From the drift 60 feet below the surface a winze was sunk 85 feet and holed to the shaft below.

This winze is now being stripped and timbered, and connection will be made by February 1st.

On the third level the drift was extended 375 feet to the line of the shaft, and a raise has just been started to connect with the shaft above, between the 2nd and 3rd level. Both the 2nd and 3rd level drifts were in exceptionally hard dirite, as is also the shaft, and the cost was correspondingly high.

In order to have the 4th level opened by the time the 3rd is exhausted, a winze has been sunk from the 14th room South West 3rd level, to a vertical depth of 100 feet, and a drift started towards the line of shaft. This is now in 125 feet.

Thirty feet from the bottom of the winze the foot wall was struck. The drift to the shaft at this point will be 600 feet long.

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

	or solve the contract of the	Cost to date.	1
	Drifting to shaft	16811.07	17
	Temporary Compressor Plant	719.28	Ar duning
setring, and one	Rental of equipment	- 150.00	
	Sinking & Raising	9676.83	Danie at
99-10 mm - 1 39	Timbering shaft	1280.94	Whites
a,	Total	28638.12	outs of Con-

Lake.

## MUD RUNS.

Only one slight run of mud occured during the year. On July 9th., without any warning, the mud broke through at the 12th room, and found its way to the 3rd level. No particular damage was done, but the cost of cleaning up amounted to \$538.00.

## FIRE. The second of the second

On April 14th at noon, fire was discovered on the 2nd level South West where a chute crossed the main drift at the 10th room. Fortunately no one was injured, and the flames were quickly subdued. Owing to the large amount of smoke which had accumulated in the mine, work was not begun until the 16th at 7 A M.

The cost of this fire, not including the loss of ore was \$406.83.

A second fire was discovered on September 29th in the coal pile, but by the liberal use of water, it was put out with little loss of fuel. The total cost of this work amounted to \$95.20.

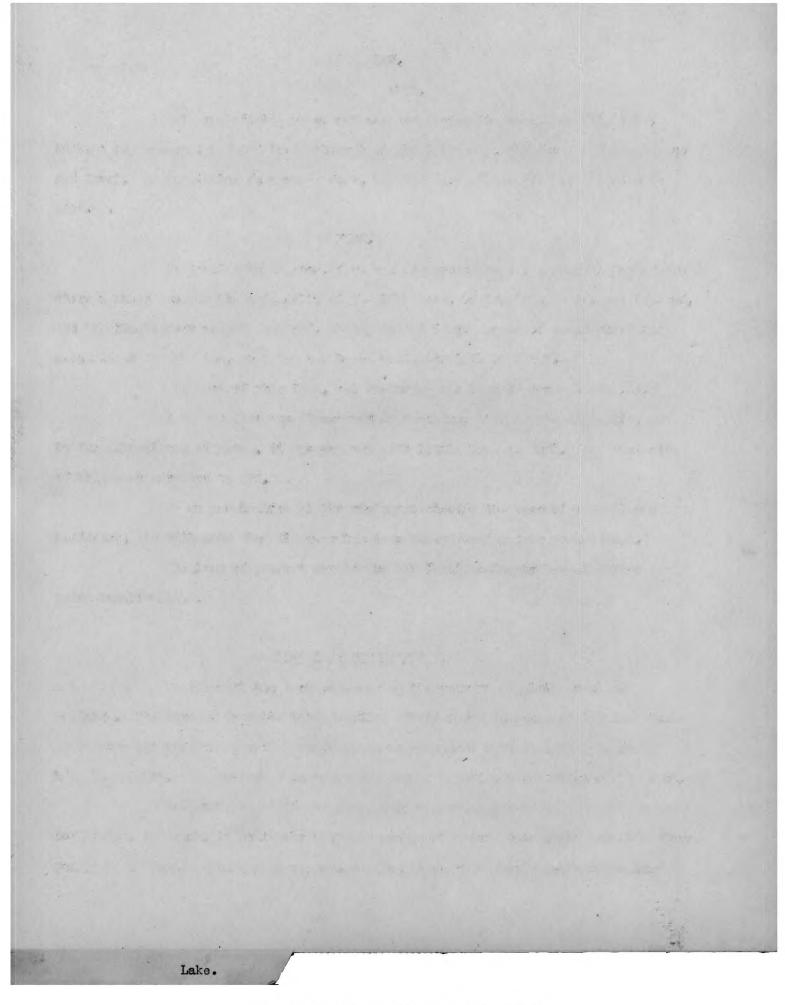
By an examination of the statement showing the loss of product due to accidents, you will note that the year has been exceptionally free from delays.

exceptionally light.

## LAKE ANGELINE DRAINAGE.

No new work has been done during the year on the Lake Angeline
Drainage. The Launder from the Lake Angeline office for a distance of 700 feet West
is in very bad condition, and arrangements have been made with Captain Walters to
have it rebuilt. The agreement is that each Company shall pay one third of the cost.

The East end of the present launder crosses ground under which we are now mining, and where it is likely that the ground will cave before the end of another year. It is going to be a very serious problem to carry the water across the land Lake.



under where the Lake Angeline Co., and ourselves are now operating. It is probable that in order to get a permanent location, - - it will be necessary to build along the side of the hill South of the ore measures. This will be difficult because as mining progresses it is likely that some of this ground may be pulled down.

I have not yet taken the question up with the other Companies, as I preferred to get the old portion of the launder repaired before doing so. Since ditching the hills East of the Lake no difficulty has been experienced in taking care of the heaviest rain fall. Each year the sump in the lake bottom is getting more contracted, so that it is necessary to handle the water expeditiously to avoid drowning out the mine.

As our workings and the Lake Superior mines are connected on the 3rd level, they are equally interested in maintaining the launder, and % anticipate no trouble in arranging with them for rebuilding it.

#### STOCKING ORE AT PRESQUE ISLE.

65,000 tons of ore were stocked at Presque Isle during last winter at a cost of .074cents per ton.

So little of the Lake stockpile was shipped this year that it will again be necessary to stock part of the winter's output at the dock, in spite of the high cost of doing so. In order to furnish room for this ore it was necessary to extend the stock pile bottom, which was done at a cost of \$958.56.

It is estimated that we now have capacity for 60,000 tons additional. With this tonnage and the stockpile ground available at the Lake, we shall be able to mine with full force until the opening of navigation.

I am advised by Mr. Harris that the cost of handling the ore during the winter is slightly in excess of the summer work, and that there will be an additional charge of  $\frac{3}{4}$  of a cent per ton. freight.

### TAXES.

There has been practically no change in the valuations of any of our properties, but the taxes have increased \$4642.74.

This is owing to the building of a new Court House at Marquette.

The Board of Supervisors have decided to spread the cost of the building, which will amount to about \$150,000, over three years, rather than to issue bonds.

#### PRIZES.

The usual prizes for well kept premises have been given, and have resulted in further improvement of the general appearance of our locations.

The system of requiring competitors to notify the General Office has not been satisfactory. This year there were not as many competing as there were prizes offered. In order to obviate this trouble it has been decided next year to send notices of the competition to each house holder & lease holder on the Company's lands, which it is thought will increase the interest in this competition, and result in a very much larger number of applications.

I should regret to see this feature dropped, as in my opinion, it has been of great benefit, not only to our employes, but to the city at large.

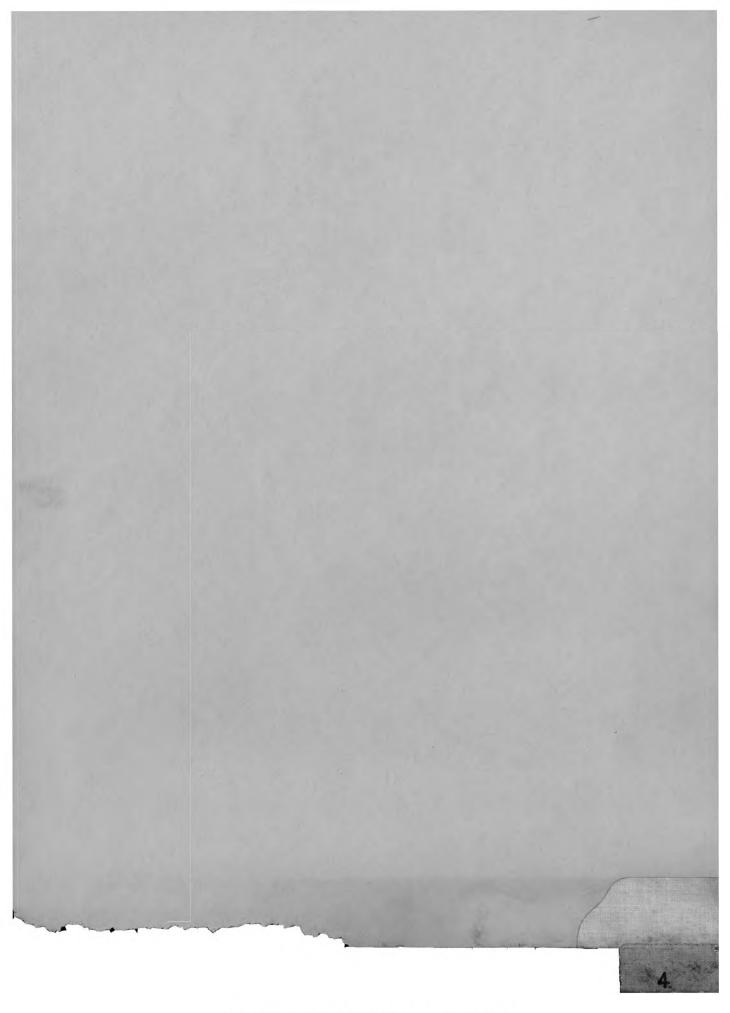
The Cleveland-Cliffs and Mechanic's Clubs have continued their good work of former years, and are both in a healthy condition.

The relations between the Company and its employes are cordial, and there is no indication of any dissatisfaction among the men.

Before closing my report I wish to express my appreciation of the hearty cooperation of the Heads of the different Departments in the work of the year, to whose efforts the results obtained have been largely due.

Respectfully submitted,

Agent.



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#### THE CLEVELAND-CLIFFS IRON CO. Cost of Production for the Houth of 68883 Jons Lake Month of 12 Mouths 1002 - 477.831 some Labor Cont Supplier Cost Per Ton Total Total. Supplies. Amount. Cost Per Ton. Amount. Amount. 37168 001 125001 003 327744 / 007 704700 004 37165 001 1 568 001 37568 00 = 57 000 148/3 004 475/0 008 163187 003 204200 00H 124683 003 87296 87553 00 362336 001 211803 004 212615 004 1 48 32 002 ine Office. 72809 002 284202 006 292477 006 477764 010 501039 011 477369 010 978308 021 509680 012 987444 02 MAINTENANCE Repairs of 37 E 2 H 8 007 H 7 9 7 5 1 0 0 9 E 1 2 1 2 0 0 1 1 H 0 0 0 0 0 6 4 7 2 5 0 0 1 8 9 3 3 6 0 0 2 H 5 3 7 9 0 0 1 1995 002 227051 005 98197 238661 314656 00 160193 003 169 000 006 1194 48 00: 30993 001 30712 1400 000 10953 000 24613 001 17191 000 17744 000 14694 000 26316 000 30536 001 29915 001 38409 001 58200 16799 002 23-96 001 7482 000 Hobsting Machinery, 001 105990 000 000 41040001 ornish and Steam Pumps, 000 23177 000 49442 601 33764 601 73768 002 Top Tram Engines and Cars, 40535 001 54148 kips and Skip Hoads, 40922 001 40311 001 Endoground Tracks and Care, Electric Tracks and Care, Electric Jeann Flauil Nepairs of Stokers Jirk in Load File Lithing Korkers & Engineer Total, 56201 001 108754 000 1219988 68 42 1195100 025 10568 000 10 73467 022 2268567 047 772336 019 22.22187 049 MINING EXPENSE. 85917 002 870019 018 763087 016 227860 005 19220 81521 00 Air Pipes, Compressors, 66859 002 1 W 6 62 215753 0006 388323 008 34219 007 144213 007 8556 29 018 794364 017 1073335 023 188094 004 642159 321214 007 287108 006 196571 006 007 818396 017 240619 005 13881 001 14248 001 30.15492 064 2911677 061 3299124 069 17400138 364 18934562 396 170.24475 368 608500 013 608500 013 3750607 080 48=19-31.42107 010 261801 2988954 063 5856424 123 .679406 004 6241089 692211 96229 592607 258185 lining Captain and Boss 692211 5499 000 91175 007 16910 001 94926 3 590184 93738 602 501432 611 241245 005 002 010 72202 Sorting Ore, Live on 2 rd Level Lake auge Sigo Sumply Exp. 001 000 41683 601 7-1688 019 901688 019 3643 KG COL 29097980 609 7.7.01679 161367.99659 770 300561 87 641 8 . 5500 177 383.31657 81 307,941 19 645 92524 15 193 400,465 84 838 3186258 72 679 97.05516 208 4-15.41288 88 13180 51149 001 " Occlaide 126914 007 DEPRECIATION, ETC. 68773 000 295548 006 8297 85 018 312626 000 201 475.16634 004 328.27474 700 11616135 248 47483215 1.01 3620 213 389891 025 210321 001 172346 006 006 172959 004 608 563011 012 208616 005 31866747 667 99.9893 4 209 480,79645/006 330.36090 254 479.851461.02 Acepairs to Dhap Tons (m) (l) 8210 33299129 8449 3018492 465.452 .899 3.67 1900 987 margal winion of Wedney REDARKS. Med Depoil 205.65 186984 106.659 196.43 LABOR. heet. 152333 8346 The 1197 ton shown as acrome some one much 427831 42086 in Alexanor. and applied on product for year 165480 187400 Eading Nov 30,1901. Later Rein Jotal Lake Besseurer 477.83 X 470.060

JAK, MINE.	COST OF	SUPPLIES.	COST PI	ER TON.			
X 44 100	/ Growing	/ Geat /.	1982	1805 I			
Product.	477.831	468.883	6/61/	Year.			
General Supplies,	645569	-684680	013	015			
fron and Steel,	297813		006	/			
Oil, Grease and Candles,		524093	010				
Machinery Supplies,	511864	1058338					
Building Material,		1414834		030			
Explosives, Mine Timber,		2547906					
Fuel,		23913.26					
Barn,	38633			001			
Sundries,	478808	435724	010	009			
	7	/					
Total Supplies,	9245639	103.17383	193	220			
Miscellaneous,	1993489	3489839	645	074		4	
	//* * * * * * * *	130 -	20	0/		The same of	I
	1209/28	138.0722	- 35	294	1000		
SUMMARY.	10050310	12567	32.0	267			
As per Cost Sheet, Improvement,	7.00000	12567257	129	6/			
New Construction,	2.88766	1234644	006	027		,	
Other Charges,		53 21		000			
		138.07-122					
	_						
7061 7.0p/	_						