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THE CLEVELAND-CLIPS INON COMPANY

THE CLEVELAND-CLIFFS IRON COMPANY

SUPPLEMENTRY ACCIDENT REPORT NOVEMBER, 30TH, 1902
LOSS TO COMPANY ON ACCOUNT OF ACCIDENTS TO EMPLOYEES 1902

HARD LAKE CLIFFS SALIS- TIL- IMP MICH MAAS TOTAL

NO.Fatal Accidents 2 1 1 4

NO.Men employed 119 519 326 200 13 58 1235

Time lost by Min days 532 599 451 1582

FATAL ACCIDENTS	HARD ORE	LAKE	CLIFFS SHAFT	SALIS- BURY	TIL- DEN	IMP WEB	MICH	MAAS	TOTAL
No. Fatal Accidents		2	1	1					4
No.Men employed	119	519	326	200	13			58	1235
Time lost by Min days		532	599	451					1582
Average prod.per day	255	1609	940	604	52				3460
Days Idle		1-1/3	1-1/2	2			100		4-5/6
Tons Prod.Lost		2000	1500	1300					4800
(1) Exp.for Labor& Supplies while mines were idle acct. accidents		298.39	281.15	359.26					938.80
Amt.of Benefit Fund Credited Estate (2)		1000.00	500.00	500.00					2000.00
TOTAL EXPENSE		1298.39	781.15	859.26					2938.80
MINOR ACCIDENTS									
No. Minor accidents	16	63	51	22	1			4	157
Tons Prod.Lost	22	110	92	41					265
	1	1	-			-	-		

NOTE (1) Includes Insurance, Taxes, Mine Office, Central Office, Mining Captain, Pumping and Stable expense.

NOTE (2) One half the amount credited to the Estate is contributed by Employees

COMPARATIVE STATEMENT OF ACCIDENTS

		No. of	f Fata	al Acc	iden	ts per	1000	o men
	1902	1901	1900	1899	1898	1897	1896	1895
Cleveland Cliffs Ir Co All Mines Mines in Marquette Co.	3.24	6.8	2.94	2.39	5.4	9.31	13.	2.92
Report of Mine Inspector	5.25	5.6	3.62	4.59	4.6	4.00	5.37	3.35

Cleveland Cliff in. Co.
All Mines
Wines in Manquette Co.
Report of Mine Inspector

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JATOT SAAM HOIM TMI -AIIT -SILAS STALLO SEW MEG YRUS THARE THE CLEVELAND-CLIFFS IRON COMPANY

CLASSIFICATION OF CAUSES OF ACCIDENTS YEARS ENDING NOVEMBER 30TH, 1902.

Falls of Ground In Shafts Miscellaneous S TOTAL Underground TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Underground TOTAL Surface TOTAL Underground TOTAL Unde		1		
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CLASSIFICATION UNDERGROUND FALLS OF GROUND Falls of Roof Falls of Side IN SHAFTS Overwinding Ropes Breaking Going Up or Down By Machinery Falling into Shaft from Surface Things Falling from Surface Falling from part way down Things falling from part way down Miscellaneous in Shafts MISCELLANEOUS Explosions Explosions Irruptions of Water & Mud By Tram Cars & Road By Electricity By Machinery Underground By loading Ore Barring down Rock Falling down Raise Falling from Ladders or staging Handling Timber or Rails Hiscellaneous 28 1 29 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6				
UNDERGROUND FALLS OF GROUND Falls of Roof Falls of Side IN SHAFTS Overwinding Ropes Breaking Going Up or Down By Machinery Falling into Shaft from Surface Things Falling from Surface Falling from part way down Things falling from part way down Miscellaneous in Shafts MISCELLANEOUS Explosions Irruptions of Water & Mud By Tram Cars & Road By Electricity By Machinery Underground By loading Ore Barring down Rock Falling from Ladders or staging Handling Timber or Rails Miscellaneous 1 28 1 29 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6		157	4	161
IN SHAFTS Overwinding Ropes Breaking Going Up or Down By Machinery Falling into Shaft from Surface Things Falling from Surface Falling from part way down Things falling from part way down Miscellaneous in Shafts MISCELLANEOUS Explosions Explosions Irruptions of Water & Mud By Tram Cars & Road By Electricity By Machinery Underground By Ioading Ore Barring down Rook Falling down Raise Fallinf from Ladders or staging Handling Timber or Rails Miscellaneous 5 5 6 6 6 6 6 7 7 7 7 8 7 8 7 8 7 8 7 8 8	UNDERGROUND			
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Miscellaneous 15 1 16	Explosions Irruptions of Water & Mud By Tram Cars & Road By Electricity By Machinery Underground By loading Ore Barring down Rock Falling down Raise Fallinf from Ladders or staging	6 34 5 3	1	22 6 34 5 3
ON SURFACE	Miscellaneous		1	
By Machinery On Tramways or Eailways By Loading Ore Falling from Ladders etc Handling Timber or Rails Miscellaneous 3 3 3 1 2 2 3	On Tramways or Eailways By Loading Ore Falling from Ladders etc Handling Timber or Rails	3 1 3 1 2 3	1	2 3 1 2
TOTAL 1902 157 4 161	TOTAL 1902	157	4	161
TOTAL 1901 145 9 154	TOTAL 1901	145	9	154
TOTAL 1900 199 5 204	TOTAL 1900	199	5	204

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THE CLEVELAND-CLIPPS IRON COMPANY

THE CLEVELAND-CLIFFS IRON COMPANY

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

DIVISION OF TIME

TIME WORKED & LOST	HARD	LAKE	CLIFFS SHAFT	SALIS- BURY	TILDEN	ASHLAND	
Sundays	53	53	53	53	15	53	
Holidays	14	141/3	14	15	2	9	
Fatal Accidents		13	1 1 2	2		1 2	
Other causes	3	82	1	5	81/2	3	
Full Days Worked	295	2872	295 2	290	831	2991	
Number of days for year	365	365	365	365	109	365	
SUMMARY							
Sundays	53	53	53	53	15	53	
Total time lost, Days	17	241/3	16 2	22	101/2	121	
Full Time Worked	295	2872	295 <u>1</u>	290	831/2	2991	
TOTAL DAYS	365	365	365	365	109	365	

Note:- Tilden Mine working from July 7th. to Oct. 23rd.

+ of with other statemts

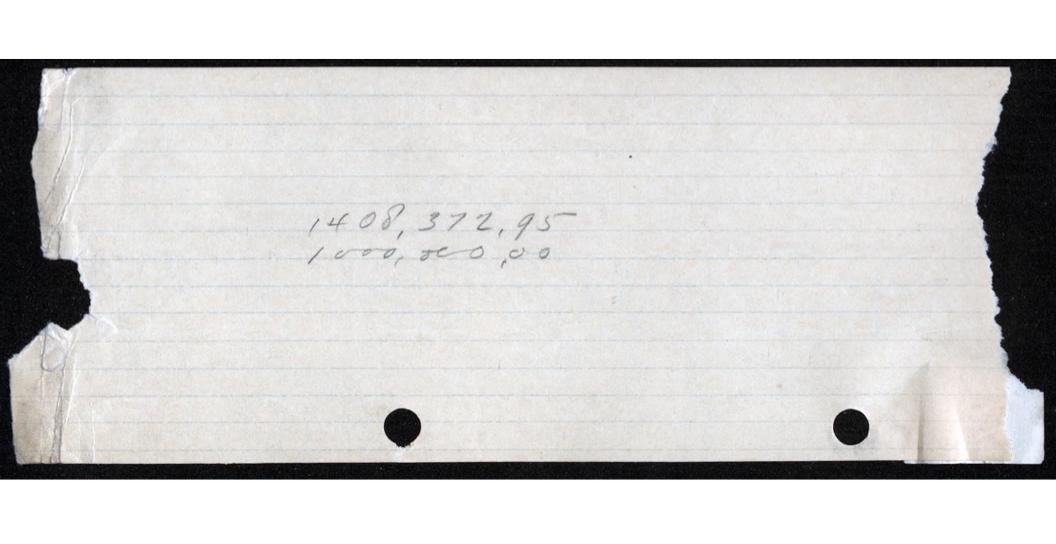
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Wote:-Tilden Wine working from

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THE CLEVELAND-CLIPPS INCH COMPANY



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THE CLEVELAND-CLIFFS IRON COMPANY

RECORD OF TIME LOST BY HOLIDAYS FOR YEAR ENDING NOV. 30TH. 1902

	HARD ORE	LAKE	CLIFFS SHAFT	SALIS- BURY	TILDEN	ASHLAND
	HOURS	HOURS	HOURS	HOURS	HOURS	HOURS
No.Hrs.Working each day	20	24	20	24	10	20
Christmas Eve	10	16	10	16		10
Christmas Day	20	24	20	24		20
Do 2nd. Day	20	24	20	24		20
New Years Eve	10	16	10	16		
New Years Day	20	24	20	24		20
Good Friday	20	24	20	24		20
Election Day (Spring)	20	24	20	16		
Memorial Day	20	24	20	24		10
Ringling Circus	20	24	20	24		20
Mid Sunmer Day	20	24	20	24		
Indempendence Day	20	24	20	24		20
Do 2nd. Day				24		
Buffalo Bills Wild West	20	24	20	24	10	
Labor Day	20	24	20	24	10	20
Election Day (Fall)	20	24	20	24		
Thanksgiving Day	20	24	20	24		20
TOTAL HOURS	280	344	280	360	20	180
TOTAL DAYS	14	141/3	14	15	2	9
Percent of Total time lost	82.4	58.9	84.8	68.2	19	72

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THE CLEVELAND-CLIFFS IRON COMPANY

CLEVELAND IRON MINING COMPANY AND IRON CLIFFS COMPANY

ANALYSIS OF LEGAL EXPENSE FOR YEAR ENDING NOVEMBER 30TH.1902

THE RESIDENCE OF THE SECOND SE				
CLEVELAND IRON MINING COMPANY				
Lepalla Case, Expense of Witnesses	12	25		i de la companya de l
George Hayden	50	00	62	25
Lake Mine, Services J.C.Wood preparing Timber Contracts				50
George Hayden, Tax Matters	5	00		
George Hayden Telegrames in March	1	29	c	29
TOTAL C.I.M.CO.			76	
IRON CLIFFS COMPANY				
Salisbury Mine, services of J.C. Wood preparing Timber Contracts		50		
George Hayden, Tax Matters		00		
TOTAL I. C. CO.			7	50
CLEVELAND-CLIFFS IRON COMPANY				
Chas.E. Miller, Attorney				
Inquest case John Collins	15	00		
Inquest Case Mike McCarty	15	,00		
Inquest Case Mike McCarty	10	00		
Wm. Carlson Case	10	00		
Frank Protek Case	15	00		
Retainer	250	00	315	00
George Winchester, Stenographer Inquest Case Mike McCarty Inquest Case Wm. Carlson Inquest Case Frank Protek George Hayden Tax Matters	7 6 8	30		30
TOTAL C.C.I.CO.	100	26. 5		3 30
Grand TOTAL 79 A			425	84

THE CLEVELAND-CLIPES IRON COMPANY

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YEACHOO ONINIM HORF GUALANTID	Cles consumments of Witnesses	velan Calys		01F	FE	ing Grant o.I.M. co.	Co.	Salisbury Mine, services of J.C. Wood salisperg Timber Contracts	George Hayden, Tax Matters	.00 .0 . I AATOT	VIANTAME AND STREET PROPERTY	OFFICE CONTRACTOR OF THE CONTR	Chas. E. Miller, Attorney	Inquest case John Collins	Inquest Case Mike McCarty	Inquest Case Mike McCarty	Wm. Carlson Case
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TOTAL C.C.I.CO.

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THE CLEVELAND-CLIFFS IRON COMPANY

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

COST OF REPAIRING DAMAGE TO MACHINERY AND PLANT

	HARD ORE		LAKE		CLIFFS SHAFT		SALI	100000000000000000000000000000000000000	ABHLAND		TOTA	L
Skips, Skip Roads & Bell Line	45	93	263	65			148	71	890	63	1348	92
Hoisting Machinery	96	63	24	85			26	78	23	06	171	32
Tracks, Cars & Motors (Underground)			1276	57							1276	57
Shaft & Shaft House Repairs							10	00			10	00
Top Tram Engines & Cars			3	40							3	40
Crusher Repairs					53	74					53	74
Cornish Pumps	137	37									137	37
Compressors & Air Pipes												
Fire 2nd.Level, Lake Mine			406	83							406	83
Fire Dry House, Cliffs Shaft					234	46	X				234	46
TOTAL	279	93	1975	30	288	20	185	49	913	69	3642	61
Cost Last Year	142	75	497	80	669	20	261	54			1571	29

Ashland Mine Not included Last Year.

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The Cleveland-Cliffs Iron Co.

Record of Wrlays:

Cost & Repaining damage to Billion Morona M Tine Dry House, Citife Shaft LATOT 45 95 878 23 L975 30 283 20 185 49 137 37 29 62 ISAG BA JATOT GWALFEA -BLIAS STWILD FYAL 382 88 84 85 824 46 IN 8AL 86 78 SE SAZI ZE ORS 88 08 IS SABE TSAR TAT TRA 408 83 \$24 प्र 78. 40

SOEL. HTGS. VOW DVICTOR SARY SERUAD SUCIRAY MORT SYALKE TO CHODIS THAILY CHA YERMINDAM OF EDAMAG DUINIAGES TO TROD

THE CLEVELAND-CLIPPS IRON COMPANY

Hemorandum reconciling taxes, as per approximate analysis of Profit & Loss of all companies, for . . \$110,723.54 with

Tax Statement, 1902 . . . 120,932.29 Difference, \$ 10,208.75

NEER FURNACE DEPT.: Tax Stat. 72.7

As charged out, per books:

Cost Sheet, Pig Iron \$4,461.00

" " Alcohol, 2,232.55

Gladstone City Lots 349.11

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

\$ 3,684.13

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

OPERATING MAAS MINE: Not charged out,

6,524.62

\$10,808.75

The Cleveland-Cliffs Iron Co.
Reconciliation Tax Statement

PRODUCTION OF IRON ORE AND PIG IRON IN MINES AND FURNACES CONTROLLED BY THE CLEVELAND-CLIFFS IRON CO

more of the remarks and become the window

		I	R 0	N	O R	E			
1902 Product								1,338,714	tons
Total product	to Ja	nuary	lst	1903			. 1	6,298,044	u
		P	I G	I	RO	N			
1902 Product						*		52,686	tons
Total product	to Ja	nuary	lst	1903		•		676,262	ıı

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The Cleveland-Cliffs Iron Oroduction of Iron Oce + Fig Iron in Mines + Furnaces Controlled by C. C. I &.

AND-CLIFFS IRON CO. CLEVELAND IRON MINING CO. IRON CLIFFS CO. ISHPEMING, MICH., Aug. 18th., 1903. M. M. DUNCAN, AGENT. IN YOUR REPLY PLEASE REFER TO FILE RECEIVED AUG 2 0 1903 Maryant Continues on the Paris Mr. R. C. Mann, Auditor, Cleveland, Ohio. Dear Sir:-Answering yours July 22nd. with enclosures from Mr. Birkinbine of the Geological Survey. I have answered all the questions and notified him of any chang es that should be made on the reports and herewith attach copy of my letter to him so that changes may be made on your copy to correspond. I have ale enclosed his letter July 21st., to you. Yours truly, A foregbledle Local Auditor. CJS-L ENCS-

Aug. 15th., 1903. Mr. John Birkinbine, Special Agent, U.S. Geological Survey, Philadelphia, Pennsylvania. Dear Sir:-Replying to your letter of July 21st. addressed to Mr. R. C. Mann, Auditor, Cleveland, Ohio, requesting further information in connection with special schedules for various mines. I hand you herewith the desired information. Please note that several changes have been made on the copies sent with your letter, all of which are explained under the proper mine headings. CLEVELAND HARD ORE. In 1st. section, question 3, "Persons employed" under Engineers Firemen, Machinists, etc. 2 men are included, which were included in the second section under "all other employees". Have changed second section accordingly. In 1st. section, question 3, 2 Foremen below ground are paid by the day and consequently are included with "miners" in second section, question 3. The difference in "all other employees" is adjusted by change as noted above. CLEVELAND LAKE MINE. As in the " Hard Ore" statement 2 men were included in question 3 "persons employed" under Engineers, Firemen etc. and under "all other employees" in second section and the same change has been made In 1st. section, question 3, 5 Foremen below ground receive daily wages and are therefore included with "miners" in second section.

Aug. 15th., 1903.

Mr. J. Birkinbine No. 2.

The total number of "all other employees" lst. section question 3 is 134. After the change mentioned the total of the same item in 2nd section is 125. This difference, because in 1st. section, question 3 was der Superintendents, Managers etc. above ground, 1 Foremen is paid by the day.

In the 1st section of question 3 the average number of employed is 519, deducting 1 Superintendent and 2 Clerks, who are paid Salaries, leaves a balance of 516 men which is the average number of wage earners as shown in 3rd section of question 5.

CLIFFS SHAFT MINE.

In 1st section question 3 "Persons employed" 4 men are include under Engineers, Firemen etc. which were included in the second section under "All other employees". Have changed second section accordingly.

In lat section question 3, 3 Foremen below ground receive dail wages and are included with "miners" in second section.

The difference in "All other employees" is adjusted by change as above stated.

In the 1st section of question 3, deducting 1 Superintendent and 2 Clerks who are paid salaries, leaves a balance of 323 men which is the average number of wage earners as shown in 3rd. section of question :

BARASA MINE.

In regard to the difference in the tonnage between the reports of 1901 and 1902. We assume that in 1901 the report was made by the parties who formerly operated the mine, while for 1902 we took into our accounts the stock pile at an estimate of 10000 tons and so reported it.

Aug. 15th., 1903.

Mr. J. Birkinbine, No. 3.

SALISBURY MINE.

In 1st section question 3, "Persons employed", 4 men are included and the 2nd. section under "All other employees". Have changed second section accordingly.

In 1st section, question 3, 3 Foremen below ground receive daily wages and are included with "miners" in second section.

The total number of "Other employees" lat section, question 3 is 48, after the change mentioned above the total of the same item in 2nd section is 49. This difference, because in 1st section, question 3, under Superintendents, Managers etc. above ground, 1 Foreman receives daily wages.

In the 1st section of question 3, deducting 1 Superintendent and two clerks, who are paid salaries leaves a balance of 197 men. The grand total of wage earners under 3rd. question section 3 is 2360 or an average per month of 196 2/3 which is practically 197.

TILDEN MINR.

In the report for this mine the expenditure of \$4026.79 represents ents the cost of mining 4750 tons of iron ore, while \$3562.50 represents the value at the mine of this same ore.

VOLUNTEER MINE.

The 9316 tons of ore in stock was retained by us. We have no means of knowing whether it was included in the return of the Oliver Iron Mining Co. We have supplied additional information regarding question 3 & 5. In regard to question 8 would say that we pay a royalty on ore as it is shipped and consequently we paid last year on what was forwarded from stock pile.

Ang. 15th., 1903.
r.J. Birkinbine, No.4.

MICHIGAMME MINE.

Was the cost of removing the greater portion of the stock pile.

MAAS MINE.

In 3nd. section of question 3 the return should have read "Miners" 15 "All other employees" 3 and we have changed the figures accordingly.

In 1st. section, question 3, 8 Foremen below ground receive daily wages and are included with "Miners" in second section, question 3. With the change in second section, question 3 mentioned above the totals of "All other employees" in the first and second sections will agree.

ASHLAND MINE.

In 1st section, question 3, 9 men were included under Engineers Firemen etc which were included in the second section with "All other employees". There should be added to "All other employees" in the same section, 1 wage earner at \$1/50 to \$1.74 and the same change should be made in the third section. These changes have been made. Il Foremen below ground first section, question 3 receive daily wages and are included with "Miners" in second section, question 3.

The items "All other employees" 1st and 2nd. sections agree after change as noted above.

In the 1st section of question 3 deducting 6 Superintendents, Clerks etc. who are paid salaries leaves a balance of 481 men which is the average number of wage earners after above change is made in 3rd section.

Aug. 15th., 1908. Mr.J.Birkinbine, No.5 With reference to questions that have been left blank, wore particularly 4 and 6 will say that then no answer is given we have no information to supply and you may therefore suit your own pleasure in regard to inserting the word "none" in reply to these questions. Yours truly, Auditor. L

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
Philadelphia, July 21, 1903.

Mr. R. C. Mann,
Auditor, Cleveland-Cliffs Iron Co.,
Mercantile Bank Building,
Cleveland, Ohio.

Dear Sir:

I am in receipt of your favor of the 18th instant, together with the special schedule for the Cleveland-Cliffs Iron
Company, and the U.S. Census schedules and Geological Survey
cards for the Cleveland Hard Ore, Cleveland Lake, Cliffs Shaft,
Barasa, Salisbury, Tilden, Volunteer, Michigamme, Imperial and
Maas Mines on the Marquette Range, the Ashland Mine on the Gogebic Range, and the Crosby Mine on the Mesabi Range, for which
please accept my thanks.

There is some additional information which is desired in regard to these mines, as follows:

CLEVELAND HARD ORE.

In question 3, "Persons employed", the average number of engineers, firemen, machinists, blacksmiths, carpenters, and other mechanics is given as 9, whereas in the second section of this question, under the heading "Average number of wage earners at specified daily rates of pay", but 7 persons are mentioned in these three classes. It may be that 2 of these men are paid salaries, in which case of course they would not be included in the answer to the second section of the question. Similarly, in the first section of question 3 the number of miners below ground is given as 47, whereas, in the second section of the question the total number will be found to be 49. The total number

Paramen Linderman

RCM2.

of "All other employees", both above and below ground, in the first section of question 3, is found to be 35, whereas, in the second section of the question, the number of "All other employees" is 35 and 2 timbermen and tracklayers (the latter of whom should be included in "All other employees", in the first section of question 3), making a total of 37, as against but 35 given in the first section of the question.

I enclose copy of the schedule so that you may see just what answers have been made to the various questions.

CLEVELAND LAKE.

In the first section of question 3, the total number of engineers, firemen, machinists, blacksmiths, carpenters and other mechanics is given as 21, whereas, in the second section of this question, under the heading "Average number of wage earners at specified daily rates of pay", the total number of men mentioned in these three classes amounts to but 19. Similarly, in the first section of question 3, the average number of miners is given as 318, whereas, in the second section of the question 323 miners are mentioned. It may be that this difference of 5 men is accounted for by the foremen below ground, and if these men are paid a daily wage rate this would be the correct understanding of the matter.

The total number of "All other employees", both above and below ground, in the first section of question 3, is 124, whereas, in the second portion of the question the total number will be found to be 127, including in this the 8 timbermen and tracklayers.

RCM3.

In the first section of question 3 the average number of employees is given as 519, but if we deduct 9 superintendents, managers, foremen, and clerks, it would leave the average number of wage earners employed during the year as 510. In the third portion of this question, headed "Average number of wage earners employed during each month", it will be found that the grand total of men employed during the 12 months the mine was in operation was 6197, or an average per month of 516, as against but 510 given in the first section of the question. This difference may be accounted for by the fact that some of the men whom I have assumed are paid salaries received a daily wage, and if such is the case I would be obliged if you will advise me in regard to it.

I enclose you copy of the schedule. CLIFFS SHAFT.

In the first portion of question 3, "Persons employed", thenumber of engineers, firemen, machinists, blacksmiths, carpenters, and other mechanics is given as 31, whereas, in the second section of this question, under the caption "Average number of wage earners at specified daily rates of pay", the total in these three classes amounts to but 27. Similarly, in the first portion of the question the number of miners below ground is given as 133, whereas, in the second section of the question the total number of miners amounts to 136. Possibly this may be accounted for by the fact that the three foremen mentioned received a daily wage.

The number of "All other employees" both above and below ground, in the first section of question 3, amounts to 78,

RCM4.

whereas, the total number which would be included in these two answers, as given under the heading "Average number of wage earners at specified daily rates of pay", amounts to 82, of whom 78 are "All other employees" and 4 "Timbermen and tracklayers". It has occurred to me that possibly this difference of 4 men may be accounted for by the fact that the "Timbermen and tracklayers" may have been included in the carpenters and mechanics in the answer to the first portion of question 3.

In the first section of question 3, the total number of persons employed is given as 326, or deducting 6 superintendents, managers, foremen and clerks, the average number of wage earners would be 320. In the third section of this query, under the caption "Average number of wage earners employed during each month", the grand total of men employed during the 12 months the mine was in operation amounts to 3876, or an average per month of 323, as against 320 mentioned in the first section of the question. Probably this difference of 3 men may be accounted for, as already mentioned, if the 3 foremen below ground received a daily wage.

I enclose copy of this schedule.

BARASA.

I note that the stock of ore on hand at the Barasa Mine December 31, 1902, is given as 10,000 tons. In the report for the year 19 01 this was given as 9447 tons, and as no ore was mined during the year, I presume the stock pile remained intact. I merely mention the fact in order to have the two statements agree.

RCM5.

SALISBURY.

In the first section of question 3, under the heading "Persons employed", the number of engineers, firemen, machinists, etc. is given as 13, while the total mentioned in these three classes, in the second portion of this question, under the caption "Average number of wage earners at specified daily rates

of pay", amounts to but 9. Similarly, the total number of miners given in the first section of the question is 106, whereas, the total in the second portion will be found to be 109. Possibly this difference of 3 men may be accounted for by the fact that the foremen received a daily wage.

The total number of "All other employees", both above and below ground, is given in the first section of question 3 as but 48, whereas, in the second portion the total which would be included under these headings amounts to 53, of whom 47 are "All other employees" and 6 "Timbermen and tracklayers".

The average number of persons employed during the year, as given in the first section of the question, amounts to 200, or deducting 7 superintendents, managers, foremen, and clerks, the total number of wage earners would amount to 193. In the third section of this question, under the caption "Average number of wage earners employed during each month", the grand total will be found to be 2360, or an average per month of 196, as against 193 mentioned in the first section of the question.

I enclose you copy of the schedule.

TILDEN.

In the return for the Tilden Mine, I notice that there was expended for:

103800 NO 3800 NO 3800

RCM6. Wages and salaries-----\$2665.10 Supplies and materials----- 1204.21 Miscellaneous expenses----- 157.48 or a total of-----\$4026.79 whereas, the value of the 4750 tons of iron ore is given as but \$3562.50. Is this excess of expenditures over receipts due to dead or exploratory work? VOLUNTEER. In regard to the Volunteer Mine, which you state was not operated by the Cleveland-Cliffs Company, I would say that a return for this mine was received from the Oliver Iron Mining Company. On the card you state that you have a stock of ore on hand at the mine of 9316 tons. Am I correct in the understanding that this ore was retained by you, and is not accounted for in the return made by the Oliver Iron Mining Company. I also notice that in your answer to question 3 you state that the amount paid out to "All other employees" at this mine during the year amounted to \$3318.26, but the average number of these employees is not given, and the second and third portions of question 3 are left blank, as well as question 5. From the answers to questions 7 and 8 I presume that some work was done during the year, and therefore enclose you copy of the schedule as forwarded to me. If you can have this completed I will be obliged. MICHIGAMME. In the return for the Michigamme Mine, from which no ore was obtained during the year 1902, I note that there is an

RCM7.

expenditure for supplies and materials amounting to \$3222.37.

As the stock of ore on hand December 31, 1902 is but 646 tons, against the total of 11078 tons December 31, 1901, it may be that this expenditure was the cost of removing the greater portion of the stock pile, but I would be obliged if you will advise me in regard to it.

MAAS.

In the first section of question 3 the number of miners below ground is given as 13, whereas, in the second portion of this question, under the caption "Average number of wage earners at specified daily rates of pay", but 16 men are given.

Similarly, in the second portion of question 3, the total number of "All other employees" above and below ground amounts to 34, whereas, in the reply to the second section of the question but 33 "All other employees" are mentioned.

I enclose you copy of the schedule so that you may see just what answers have been made to these questions.

ASHLAND.

In the first section of question 3, the total number of engineers, firemen, machinists, blacksmiths, carpenters, and other mechanics is given as 34, whereas, in the second portion of this question, under the heading "Average number of wage earners at specified daily rates of pay", the number mentioned in these three classes amounts to but 25 men. The number of miners below ground, in the first section of the question, is given as 202, whereas, in the second section 213 are mentioned. Possibly the difference of 11 may be accounted for if the foremen below ground received a daily wage.

2 Foreman

RCM8. In the first section of question 3, the total number of "All other employees" above and below ground amounts to 169, whereas, in the second portion of the question the total number mentioned is 177, of whom 137 are "All other employees" and 40 "Timbermen and tracklayers", a difference between the two sections of 8 men. In the first section of question 3 the total number of persons employed is given as 487, or deducting the superintendents, managers, foremen, surveyors, and clerks, of whom 15 are mentioned, (if all of these receive salaries), it would leave a total number of wage earners of 470. In the third section of this question, under the caption "Average number of wage earners employed during each month", the grand total during the 12 months which the mine was in operation amounts to 5062, or an average per month of 480, as against 470 given in the first section of the question. I enclose you copy of the schedule so that you may see what replies have been made to the various questions. In a number of instances I note that the answers to the queries have been left blank. Will you kindly advise me whether the word "None" should be inserted in reply to these? refers more particularly to questions 4 and 6, which are left blank in practically all of the schedules. I enclose you franked envelope which will enable you to forward me the schedules without paying any postage. Regretting to trouble you again in the matter, I am, Yours truly, John Bush entines Enclosures. Special Agent.

UNITED STATES CENSUS OFFICE.

Special schedule No. G.

Division of Manufactures.

S.N.D.North, Chief Statistician.

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. Merriam, Director of the Census

EXTRACT FROM ACT OF CONGRESS, MARCH 3, 1899

Section 22 * * * " And every president, treasurer, secretary, director, agent, or other officer of every corporation, and every establishment of preductive 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 thereto 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 information contained in this schedule is complete and correct to the best of my knowledge and belief.

(Signature of Special Agent)

(Signature and official designation of the person furnishing the information.)

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

Cliffy Shaff Mine
(Givename or designation of mine.)

Located at Information of Mine.

County of Marquette State of Mich.

Information supplied by

Oleveland Ohio
(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.)

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

(if none so state.)

G. 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 post or profit, is asked for.

Price

901 190

\$ 784,540.40

1. Character of present organization, whether individual, firm, limited partnership. cooperative association, or incorporated company: - - - - - - - - - - - -2. Capital stock, bonds, dividends, and assessments (if an incorporated company): PREFERRED STOCK COMMON STOCK TOTAL PAR NO OF TOTAL P NO OF TOTAL P. SHARES VALUE SHARES VALUE NUMBER VALUE Authorized - -Dividends and interest, if any, paid during the year: Preferred stock rate - - - - - - - - - ; amount, \$ - - - -Bonds, rate - - - - - - - - - - - - - amount, \$ - - - - -Assassments: Total amount levied if any since organization of company- 3 - - - -AVERAGE No. TOTAL AMOUNT PAID IN WAGES EMPLOYED OR SALARIES DURING THE CLASSES. DURING THE YMAR YEAR Above Ground-Ceneral officers - 2,500.00 Superintendents mngrs foremen survoyers, etc - 2,1,320.00 Engineers firemen machinists black smiths corporters and other mechanics - - - - - - - - - - - - - 31 20,329.44 Miners or quarrymen and stonecutters - - - - - - -Below Ground (not for quarries of surface mines)-3 2,431.16
Miners -- 78 44,546.16 Boys, under 16 years - - - 39 - 22,869.69 205,382,30 TOTAL (Account for all parache employed at the mine or quarry, Give the total and wages paid, which should include board or rent furnished as part compensation. The wages reported for miners or quarryman and stoneoutters should be their net wages, and should not include the cost of supplies furnished by the commany and charged to them, such as explosives lamp oil ats and blackemithing charges. Care should be taken that those employed above ground and those below ground be reported senarately. 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 enswer 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 ed.)

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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, \$ 24.557.59

(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 ateel for blacksmithing rails, frogs, sleepers eto. . 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. 1 8. MISCELLANEOUS EXPENSES:

ITEMS. AMOUNT Royalties and rent of mine and mining plant - - - - - -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 - _ _ 20,955.46

(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.)

Total quantity of mineral or stone mined during the year, 280,193 tone. Total value at mine or quarry, \$ -754,540.40

(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:	0	L	A	S	20	0	T.														M	no	BER				TOT! SEP		
Steam	-		-	-	-	-	1		-	_						-						-	7			9	65	-	
Water wheels	Aug.																						v			1	~		
Electric motors	ALS:	**	-	-	-	-	-	-	1-	-							-	790			1		L				v		
Other power(specify kind)		-			-	1994	-	-	100	-	-	45	1000	1		-		-	146	40		v .	-	-	4	~		

b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY

G. POWER SUPPLIED BY OTHER ESTABLISHENTS, IF ANY

Kind of power . - -

name and address of establishment supplying some. Y

(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 eto., 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. MINES Name of mine or querry - - Hard Ore Mine Character of mineral, --- - Aran Ore Hame of company, firm, or individual owner, Cleveland Iron Muning Co. Location of mine or querry: State Michigan - - -; County, Marquette Nearest city or town, - Ishpenning _ - - Post-office Ishpenning_ General office at - - - - - Cleveland, Q - - -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 CONGRESS, 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 thereto 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 information contained in this schedule is complete and correct to the best of my knowledge and belief. (Signature of Special Agent) (Signature and official designation 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, 1902, at the

Cleveland Hard Ore (Give name or designation of mine.) Located at Osfafening county of Marquette State of Mich. Information supplied by Cleveland o (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.

74,743

(if none, so state.)

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

(if none so state.)

C. 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.

190 - De there objection to the figures of output only bring credited to your mine in the report when soulished ?

		-						8
	1. Character of present organization, w	whether	indiv	idual	, firm	, limit	ed parts	nership.
	cooperative association, or incorpor							
	2. Capital stock, bonds, dividends, and	l asses	sments	(ir	an ino	orporete	ed comp	any):
		BON				D STOCK		
		NUMBER	TOTAL VALUE	PAR	No.OF	TOTAL P	No.OF	TOPAL P.
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	Issued to the end of the year			Design of				
		A STATE OF				-p		13
	Dividends and interest, if any, paid dur							
	Common stock , rate							
	Preferred stock rate							
	Bonds, rate	75.5			;	amount	, 6	
	Assassments: Total amount levied, if any	since	organi	izati	on of	company	- 3	
						GE. No.	TOTAL	THE RESIDENCE OF THE PARTY OF T
	CLASSES.				EMPLO DURIN YEAR	G THE	PAID II OR SAL	
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	Above Ground- General officers	withe.	to-	ers,	DURIN	26 26 27 23 9	11, 3 1, 5, 6 1, 4 5, 6 11, 3	700,00 140,00 90,00 32,94 45.05 52.68 19.36
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	Above Ground- General officers	e miner	nine or	ers,	DURIN YEAR	26 26 27 23 29 119 ive the corr	OR SAL DURING	700.00 140.00 140.00 90.00 32.94 45.05 52.68 19.36 53.64 83.67 salaries ion. The
	Above Ground- General officers	t the red store	mine or	ers,	DURIN YEAR	26 - 27 - 23 - 9 - 119 ive the part doing to their the	OR SAL DURING	700.00 140.00 140.00 90.00 32.94 45.05 52.68 19.36 53.64 83.67 salaries ion. The
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GOCUPATIONS	thant	0	to	to	to	to	to	to	to	to	to	to	to	to	to	to	and
	.50.	74	.99	1.84	1,49	174	1.99	2.24	2.49	2.74	2,99	3.24	3,49	3.74	3,99	4.84	over
Engineers -								3				1					
Firemen						-		2								-	
Machinists,																	
blacksmiths																	
carpenters,																	
and other							,	,									
mechanics -		-			4.4			-/			7-1-				-		
Miners or											1.20						
quarrymen &								1	30	18							
stonecutter		-	-						30	10							
Miners' Mark						No.	00	-	1		E.F.						
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(The rate paid for mining or quarrying not done by the day should be reported, and

the average fumber of employees engaged in such work and the total amount paid.

Time in operation: Total number of days in operation during the year, 298 -Number of hours in operation per day, 20 - - Number of shifts of workmen, 2 - - Number of hours to chift.

Contract Work: Amount paid, if any, for tunneling, shaft sinking boring test holes etc., if not done by employees hired directly by this establishment, \$ ----Average number of men employed on such work .- - - -N umber of days employed, - - - -

SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including freight paid on the same, \$27,63/25

(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 oils machinery surplies etc.) 8. MISCELLANEOUS EXPENSES:

ITEMS. THUOMA Royalties and rent of mine and mining plant - - - - - - - - - -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 - - - 5,2760/ Total ----- \$ ----

(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 supplies and materials.) 9. PRODUCT:

Total quantity of mineral or stone mined during the year, 74,743 kg, Jons. Total value at mine or quarry, \$21301755

(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:

B. POWER OWNED-

C L A S S.	NUMBER	TOTAL MORSEPOWER
INGINES:		
Water wheels		
Slectric motors		
N. POWER SUPPLIED TO OTHER ESTABLISHMENTS IF ANY	See a particular	AND ASSESSED AND ASSESSED

Horsepower, OTHER ESTABLISHMENTS, IF ANY-

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

name and address of establishment supplying some . - - - - - - - -

(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. Grosby Mine Name of mine or quarry .-Character of mineral .- - -Hame of company, firm, or individual owner The Chveland Cliffs Tron Co. Location of mine or querry: State Minnesota - ; County . Stasca Nearest city or town, - Hebbing ---- Post-office,-----General office at - - - - Cleveland, O. UNITED STATES CENSUS OFFICE, Washington, D. C., Jamuary 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 cansus 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. Merriam. Director of the Consus EXTRACT TROM ACT OF CONCRESS, MARCH 2, 1809: 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 enswers to any of the schedules, inquiries, or statistical interrogatories provided for by this act are herein required, who shell, if there to 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 information contained in this schedule is complete and correct to the best of my knowledge and belief. (Signature of Special Agent) (Signature and official designation of the person furnishing the informs. tion.)

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.

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

Crosby Munic

(Give name or description of mine)

(Give name or designation of mine.)
Located at
county of Starca State of Minn
Information supplied by
my. Mather Prist
Oleveland Ohio
(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.)

Also stock of iron ere 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.

\$

1. Character of present organization,	whether	indivi	dual .	, Lira	, limite	ed partr	ership,	
cooperative association, or incorpor	rated c	ompany:						
2. Capital stock, bonds, dividends, and	d asses	ements	if e	ui ino	orporate	ed compo	eny):	
	BON	ns	PRI	GEERR S	D STOCK	COMMON	STOOK	1
	NUMBER	TOTAL	PAR 1	No.OF		No.OF	TOTAL P.	
Authorized		\$						
Issued to the end of the year	1	\$			-\$		á	
Dividends and interest, if any, paid du	ring th	e year:						
Common stock; rate				5	amount	2		
Preferred stock, rate				;	amount	. 8		
Bonds, rate				;	amount	,		
Assessments: Total amount levied, if any	since	organi	sati	on 01°	company	- 3		
CLASSES.				EMPLO	G THE	PAID I	WACES	R
Above Ground- Ceneral officers	eyera, e	to- carpent	ers,					
(Ascount for all paraons employed and wages paid, which should include hos	at the	mine or	que	rry. 6	ive the	total	salaries	
wages reported for miners or quarrymen should not include the gost of supplies such as explosives they are ato, and all those employed above ground and those to of corporations are not to be reported. Paid for contract work not done by empl such work must not be included in this. The average number suployed during the continuous employment for the twelve moed.)	and store furnisackemit elow granious over hinquiry year is	neoutte hed by hint ch cound be they ar dired di , but be the in	rs s the args rep a sa rect rep	hould compare e Car corted laries ly, and corted that	be their and e re shoul suparat i offici i the nu in anaw would b	r net wherea d he te elf. At als. Am wher en to i	ken that cocholde ounts ployed in nquiry.6	では、

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AVERAGE NUMBER OF TAGE-EARNERS AT SPECIFIED DAILY RATES OF PAY.

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blacksmiths.						
carpenters,						
and other						
mechanics						
Miners or				+	-	
quarryman &						
stoneoutters						
Miners'					**** ***	
helpers						
Timbermen &						
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Boys under						
16 years						
All other					-	
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not include					Agra-3	
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January	July - a - -August - September -			/		
January February March April May	July September October					
January February March April May June	July September - October November				-	
January February March April May June	July September - October November				-	
January February March April May June (Only wage-earners should be removed	July September - October November					
January February March April May June (Only wage-earners should be report other pieceworkers. Do not include fire	July	miners wo				
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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 coat of all supplies and materials used during the year, including freight paid on the same, mist 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 oils machinery supplies, etc. } 8. MISCELLANEOUS EXPENSES:

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

(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 supplies and materials.)

Total quantity of mineral or stone mined during the year home 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-

OLASS.	NUMBER	TOTAL HORSEPOWER
Steam Cascline		
Electric motors	 	
b. Power supplied to other ESTABLISHMENTS, IF ANY	 	

G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-

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 horsevower of il engines, motors, water wheels sto , 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 quarry - - Maas Mine Iron Ore Character of mineral .- - - -Hame of company, firm, or individual owner, The Cleveland Cliffs dronglo. Location of mine or querry: State, Michigan --; County, Marquette.

Nearest city or town, - Negaune --- Post-office, Negaunee

General office at --- --- Cleveland, C. UNITED STATES CENSUS OFFICE, Washington, D. C., Jamuary 2, 1903. By section 7 of the Act of Congress for the establishment of a permanent Census. Office, approved March 8,1902, 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. Merriam, Director of the Census EXTRACT PROM ACT OF CONGRESS, MARCH 3, 1899: Section 22 * * * " And every president, treasurer, secretary, director, scent, 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 enswers 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 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 incornect in and correct to the best of my knowledge and belief.

Muy Mather Presi This is to certify that the information contained in this schedule is complete (Signature of Special Agent) (Signature and official designation 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.

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

Maas Music

(Give name or designation of mine.)

Located at Megaunes (

County of Maagustle State of Much

Information supplied by

Why Mathy Grisdul Cliveland 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.

None, - Junking Shaft. gross tons.

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

None. gross tons.

(if none se state.)

G. 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, WAT the cost or profit, is asked for.

Character of present organization, whether individual, firm, limited partnership, cooperative association, or incorporated company: - - - - - - - -Capital stock, bonds, dividends, and assessments (if an incorporated company): PREFERRED STOCK COMMON STOCK TOTAL PAR NO. OF TOTAL P No.OF NUMBER VALUE SHARES VALUE SHARES VALUE Authorized- -Dividends and interest, if any, paid during the year: Common stock rate - - - - - - - - - - - - - - - - amount, \$ - - - - -Preferred stock rate - - - - - - - - - - ; amount, \$ - - - - ; Bonds, rate + - - - - - - - - - - - - - - - - amount, \$ - - - - -Assessments: Total amount levied, if any since organization of company- \$ - - - -AVERAGE No. TOTAL AMOUNT EMPLOYED PAID IN WAGES CLASSES. DURING THE OR SALARTES YEAR DURING THE YEAR Above Ground-Engineers, firemen, machinists, black smiths, carpenters, Boys under 16 years - - - - - - - - - - - - - - - 32 17,519.83 Below Ground (not for quarries or surface mines). Foremen ---- 2 1, 475.13 TOTAL 58 \$8,007.79 (Account for all persons employed at the mine or quarry, Give the total salaries and wages paid, which should include board or rant furnished as part compensation. The wages reported for miners or quarrymen and stoneoutters should be their net wages, and should not include the cost of supplies furnished by the company and charged to them, such as explosives, lamp oil oto , and blacksmithing 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 enswer to inquiry, 6. The average number suployed during the year is the number that would be required, at continuous employment for the twelve months, to produce the quantity of product report

ed.)

AVERAGE NUMBER OF MAGE-EARNERS AT SPECIFIED DAILY RATES OF PAY.

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7 SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including freight paid on the same, \$ 44,735,08

(The social 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 blacks mithing rails, frogs, sleepers etc., for tracks and repairs, parts of machinary 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,	
office supplies, law expenses, injuries and damages, telegraph and tele-	10/11/012
office supplies, law expenses, injuries and damages, telegraph and tele- phone service, gas, and all other sundries not reported elsewhere	10040.63
Total	\$

(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. Bo not include any portion of the freight reported under inquiry 7 as paid on supplies and materials.)

9. PRODUCT:

Total quantity of mineral or stone mined during the year home, Sinking Shaft)
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-

	TOTAL Horsefower
Stepn	
Electric motors	

b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY-

G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY

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

(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 etc., used for hoisting, darricks, surface machinery, ventilating, pumping, and all other purposes.)

AND-CLIFFS IRON CO. CLEVELAND IRON MINING CO. IRON CLIFFS CO. ISHPEMING, MICH., May 2ard., 1903. M. M. DUNCAN, AGENT. IN YOUR REPLY PLEASE REFER TO FILE RECEIVED Mr. R. C. Mann, Auditor, Cleveland, Ohio. Dear Sir:-Am sending you under separate cover the reports for Mr. Birkinbine and would call your attention to the supplemental schedule for administrative and general offices. In clause three "Persons employed" we have shown all of the figures called for as far as our office is concerned. For clause five, we show 11936.56 this covers Central Office expense which amount was deducted from the cost sheets for the respective mines in order to show it up here in one amount. The items which are charged to the Treasurer's account for repairs to rented houses, land improvement etc. are not covered in any of these reports, neither are the amounts received for rents. We do not show the cost of the Swanzy and Mesaba explorations as I do not think that these figures are required. Yours truly, Local Auditor. AJY-CWL

80, 0:11	1/30/1901 to 1/30/1902	see 1904	1/30/81 to 1/31/0~	Sedud Dec 1901	Calendar yar
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5 Taylor 3, Gill	53072	4.842	54864	3,273	54,591
12 Glove	1010		1,010		1010
Total Lake	309,701	24.356	334.057	19.337	314.720
- are	309.184	27.139	33 36,323	21.334	314.989
n Bess	165,480	12056	177.636	11.795	165.741
	477.831	39.73	33.702		3.702
Total Sales		59.730	517.561	33.129	484.432
6 11 Biss	89074	7.860	96934	5159	91.775
	89612	6.682	89 6294	9003	87291
Fotal	178.686	14.542	193.228	14112	i was a fee
the second and second	AND FRANCISCO CONTRACTOR			14.162	179.860
		4 - 1			

UNITED STATES CENSUS OFFICE.
SPECIAL SCHEDULE No. 6 a.

DIVISION OF MANUFACTURES. S.N.D.NORTH, CHIEF STATISTICIAN.

MINES AND QUARRIES.
SUPPLEMENTAL SCHEDULE FOR ADMINISTRATIVE AND GENERAL OFFICES.

Name of Company, firm, or individual owner, The Cleveland Cliffs Iwa Ca.
General Office: State, Ohio.; county, Crypshoga; City or town, Cleveland

Corporations, firms, or individuals operating more than one mine, quarry, or reduction works, with a central office for all of them, are requested to report on this schedule the employees of such central office, with their salaries or wages and all other employees whose work is not confined to one particular mine, quarry, or reduction works, such as general superintendents, machinists, surveyors, etc.

All general expenses are also to be reported on this schedule, and the data relating to capital stock, bonds, dividends, and assessments of incorporated companies.

NO DATA REPORTED ON THIS SCHEDULE SHOULD APPEAR ON THE SEPERATE REPORTS FOR THE INDIVIDUAL MINES, QUARRIES, OR REDUCTION WORKS. SEPERATE SCHEDULES ARE SUPPLIED FOR THESE INDIVIDUAL PLANTS.

CERTIFICATE.

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

(Signature and official designation of the person furnishing the (Signature of special Agent.) information.) 1. Character of present organization, whether individual, firm, limited partnership, cooperative association, or incorporated company: Incorporated company ***************** 2. Capital stock, bonds, dividends, and assessments(if an incorporated company): BONDS PREFERRED STOCK COMMON STOCK Number Total Pr Val. NO. OF Total Pr. VAL. NO. OF Total P. V SHARES SHARES Dividends and interest, if any, paid during the year: Common stock, rate 12 % ; amount ,\$589; Preferred stock, rate ; amount ,\$ Bonds, rate ; amount ,\$ ************* ASSESSMENTS: Total amount levied since organization of company

Crosby -

11/30/01 5 19290,78 Dec 1901 - 179.89 cese 68 906 31 mg 56.369.97 Jul a. 552.48 -17.209.94. Layes min Personal Dayes Cro Dec 1901 - Av 34, 20 7.262.88 togal 86. 6.835.72 416.76 6.846,12 10 40 Mine items? Sulette 3/1936.56 Surger Ar 3. 20 cesa too see 1/191100 111.911.04 Beneral Office mice Mis Go. Total 34.100.5° 4 7 Salain 34.10000 Other "Mysothe of 24.515.00 245,5,00 7.160.47 - 9303.24 18 Clerko 16.463.71 .10 13 7.681.56 Surveyors eta: 7.681.56 9 43.403.74 43 8276027 39.35703 17 26

UNITED STATES CENSUS OFFICE. Special schedule No. 6 Division of Manufactures. S.N.D. North, Chief Statistician. QUARRIES. Name of nine or quarry, Michiganame Mune abandoned Iron Ore Character of mineral .- -Hame of company, firm, or individual owner .-Location of mine or querry: State Mucheyan - -; County Marquelle Nearest city or town, Mchegamme Cleveland, O. General office at - - - - -UNITED STATES CENSUS OFFICE, Washington, D. C., Jamuary 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 disploss any information obtained in their official capacity. William R. Herriam. Director of the Consus EXTLACT FROM ACT OF CONCRESS, MARCH 2, 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 limbility 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 there to 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 correct to the best of my knowledge and belief. (Signature of Special Agent) (Signature and official designation of the person furnishing the informs. 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 (Give June or designation of mine.) county of Marquette State of Mich 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 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, including concentrated ou (if none, so state.) abandoned gross tons. Also stock of iron ore on hand at Mine December 31,1902. 646 (if none so state,) G. 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 echsimption. The gross commercial value of the ore, at the mine, NOT the cost or profit, is asked for

A State amount of concentrated broduck in the year ending And 31/03 more gr Jons

	1. Character of present organization,	whether	individu	al, firm	, limit	ed parti	marship,	
	cooperative association, or incorpo							
			outlinitial to .					
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	2. Capital stock, bonds, dividends, an	d 00000						
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			VALUE	SHARES	VALUE	SHARES	VALUE	
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	Issued to the end of the year	1		Tarita Sana				
	to the end of the year-		ļ ·	16.5	-\$		3	
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	Preferred stock, rate			:	amount	\$		
	Bonds, rate							
	Swing rave			+3	amount	, \$		
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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, \$ 3222.37

(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 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, office supplies, law expenses, injuries and damages, telegraph and telephone service, gas, and all other sundries not reported elsewhere - - - - 175.04. Total -----\$ ---

(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 None (abandoned)

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:

de l'oute outen		
	NUMBER	TOTAL HORSEPOWER
EMGINES:	AZERO PER	
Steam	- V -	V
Ges and Casoline	The second secon	
Water wheels		
Plactuic votova		
Electric motors	V	
Other power(specify kind)	K	
b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY		1
Horsepower		
G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-		
Viva of name		. /
Kind of power,; hor	sapower,	
name and address of establishment supplying same,	V	

(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, darricks, surface machinery, ventilating, pumping, and all other purposes.)

UNITED STATES CENSUS OFFICE.

Special schedule No. 6

Division of Mamufactures.

S.N.D.North, Chief Statistician.

HINES AND QUARRIES.

Name of mine or quarry, - Lake Munice

Character of mineral, - - Crow Ore

Name of company, firm, or individual owner, Claveland Srow Muning Co.

Location of mine or quarry: State Muchigan - -; County, Marquette

Nearest city or town Shapening - - Post-office Shapening

General office at - - - - Eliveland, O

UNITED STATES CENSUS OFFICE,

Washington, D. C., Jamuary 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 AGE OF CONCRESS, MARCH 2, 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 thereto 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 information contained in this schedule is complete and correct to the best of my knowledge and belief.

(Signature of Special Agent)

(Signature and official designation of the person furnishing the information)

CONFIDENTIAL.

DEPARTMENT OF THE INTERIOR

GEOLOGICAL UNITED STATES SURVEY

IRON

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.

ORE

Statistics of iron ore mined during the year ending December 31, 1903 at the Cleveland fake (Give name or designation of mine.) county of Marquette / State of Much. Information supplied by muy marta Prot

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

For use only in the proparation 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

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

Magnetic ore.

Carbonate or black band ore.

B. State total amount of markstable 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.) 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 consuption. The gross commercial value of the ore at the mine, NOT the cost or profit, is a sed for

1,219,586.60

1,219,586.60

275 D. Oo there objection to the figures of output ones being credited to you thoreport when published 3 20

1. Character of present organization, whether individual, firm, limited partnership, cooperative association, or incorporated company: - -Incorporated Company Capital stock, bonds, dividends, and assessments (if an incorporated company): BONDS PREFERRED STOCK COMMON 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: Common stock rate - - - - - - - - - - - - - - - - amount, \$ - - - -Preferred stock rate - - - - - - - - - ; amount, \$ - - - - ----- amount. 8 ----Assassments: Total amount levied, if any since organization of company- 3 - - - - -AVERAGE No. TOTAL AMOUNT EMPLOYED PAID IN WAGES CLASSES. OR SALARTES DURING THE YEAR DURING THE YEAR Above Ground-Clarks - - - - - 2 _ 1,889.96 Engineers, firemen, machinists, black smiths, carpenters, 21 14,999,24 and other mechanics - - - - - - - - - - - -Miners or quarryman and stonecutters - - - - - -Below Ground (not for quarries or surface mines)-4.334.36 Miners --- 318 222,279.86 Miners helpers --- 47 26,829.12 All other employees - - - - - - - - - - - - - - - 64 24,125,28 (Account for all persons employed at the mine or querry, Give the total salaries and wages paid, which should include board or rent furnished as part compensation. The wages reported for miners or quarryman 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, loop oil sto, and blacksmithing charges. Care should be taken that those employed above ground and those below ground or 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

ed.)

AVERAGE NUMBER OF WAGE-EARNERS AT SPECIFIED DAILY RATES OF PAY.

	20 July 20 100								Branch.	023000								
	Less	50.7	75	1.00	1.25	1.50	1.75	12.00	2.25	2.50	2.75	3.00	9. 25	8.50	3 75	4.00	4.25	
OCCUPATIONS								to	to			to	to	to	to		and	
700000000000000000000000000000000000000					1.49				0 40	2.74	0 00						over	
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Machinists.					1		-					-		-				
THE RESERVE OF THE PARTY OF THE																		10
blacksmiths																		118
carpentere.		1871					1000											
and other							-	-	-									
mechanics -		1		- 1			3	5	2	/								13
Miners or			478						Sec.									100
quarryman &									1000							15/10/		
stoneoutter				30					318	5						106.75		
Minorel				100		100	No.		100	ALC: U		-		-	-	1000		
helvers	100.00					100	34	12		1								11
				1	7			12		13.70		-						16
Timbermen &	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							,		2						100		
track layer	STATE OF	11	- 14			-		- 6		~		-			1			10
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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 \$ 119,000.89

(The actual coat 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 oils machinery supplies, etc.) 8. MISCELLANEOUS EXPENSES:

ITEMS. Amount paid for rent of offices, taxes, insurance, interest advertising, office sumplies, law expenses, injuries and damages, telegraph and telephone service, gas, and all other sundries not reported elsewhere - - - 22,602,51

(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 supplies and materials.) 9. PRODUCT:

Total quantity of mineral or stone mined during the year. 484,432 In tous Total value at mine or quarry, 134,432 /2 12 35.33605
[Under this inquiry should be reported the quantity and value of all nineral or mined during the year.

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-

	NUMBER	TOTAL HORSEPOWER
Steam		
Water wheels		
Other power (specify kind) Underground Clee. Motors	- 5	-50

b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY

G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-

name and address of establishment supplying some - - - -

(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, darricks, surface machinery, ventilating, pumping, and all other purposes,)

UNITED STATES CENSUS OFFICE.

Special schedule No. 6.
Division of Namifactures.

S.N.D.North, Chief Statistician.

MINES AND QUARRIES.

Name of mine or quarry, - Salisburg Mune

Character of mineral, - Itan Ore

Name of company, firm, or individual owner, Iran Sliffs Co.

Location of mine or quarry: State Muchigans + -; County Marguette

Nearest city or town, Ishneming - - - Post-office, Mysening.

General office at -

UNITED STATES CENSUS OFFICE.

- Cleveland, O --

Washington, D. C., Jamuary 2, 1908.

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 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 correct to the best of my knowledge and belief.

(Signature of Special Agent)

(Signature and official designation of the person furnishing the information.)

Salisbury.
(Give name or designation of mine.) Located at Ishfenning, county of Marquette state of Mich 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 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 se state.) C. 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. 190 A. \$ 485,600,75 1901 Sals Bears 2 75 Is there objection to the figures of output only

when Rullished?

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,

Broad and Cherry Streets, Philadelphia, Pa.

IRONORE

GEOLOGICAL

Statistics of iron ore mined during the year ending

No. 177

dals

UNITED STATES

December 31. 1903, at the

1. Character of present organization,	whether	indirida	7 0:			
cooperative association, or incorpor	rated o	Omosave	-, F1F1	, ilmit	ed parti	nership.
2. Capital stock, bonds, dividends, and	l asses	sments (if	en inc	orporat	ed compa	eny):
	BON	And the second s	REFERRE	D STOCK	COMMON	STOCK
	NUMBER	TOTAL PAR	No.OF	TOTAL P		TOTAL P.
Authorized-		\$	THE RESERVE		TOTAL STREET,	
Issued to the end of the year						
Dividends and interest, if any, paid dur	ing th	e year:				
Common stock rate				amount	*	
Preferred stock rate				amount	ф	
Bonds, rate				Omer make		
Assessments: Total amount levied, if any	gince	oncententi	on	amount,	9	
		74 31412/24 2	7	The state of the s		
CLASSES.			EMPLO: DURING	THE	TOTAL A PAID IN OR SALA	WAGES RIES
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and other mechanics -	ntne, o	arpenters,		19	8,35	
Boys under 16 years	3					
Below Ground (not for quarries on sunface						
Minane				3	2,20	03.70
Miners helpers - Boys, under 16 years - All other symployees				26	15,90	0.60
All other employees				711-	ic in	2 011
(Account for all parsons amplanes -1	4.4	CASTO CONTRACTOR	2	00	137.41	7.07
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such as explosives lemb and att		or of the c	ompany	and che	irged to	them.
of corporations are not to be		ara na Labe	MIRSO SI	marate.	T. Stoc	kholders
such work must not be included in the		or criedita	y and	the numb	der empl	oved in
The average number employed during the year continuous employment for the twelve month	A CONTRACTOR	HAN MAN TO STATE OF	ALC GOT THE	o sunawer	to inc	HIPT 6
ed.)	13, 00	produce th	6 quan	tity of	product	remark

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					A CONTRACTOR												
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7 SUPPLIES AND MATERIAL:

fotal cost of supplies and materials of all kinds used during the year, including freight paid on the same, \$ 34,765.53

(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 blacks mithing 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.)

3. MISGELLANEOUS EXPENSES:

(All items of expense incident to the operation of the mine or quarry, not assounted 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 and materials.)

Total quantity of mineral or stone mined during the year, 179, 066 In. Tons. Total value at mine or quarry, \$ #85.6 co.7

(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.

MIGINES:		TOTAL MORSEPOWER
Steam Ges and Casoline Water wheels	-V	V
Other power(specify kind) - 1 b. POWER SUPPLIED TO OTHER ESTABLISHMENTS IT ANY		

Horsepower, - THER ESTABLISHENTS, IF ANY

G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY-

- - horsepower,

name and address of establishment supplying anna. -

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

UNITED STATES CENSUS OFFICE. Special schedule No. 6 Division of Manufactures. S.N.D. North, Chief Statistician. MINES AND QUARRIES. Name of mine or quarry - - Barasa Mine Character of mineral .- - - - Iron Ore Hame of company, firm, or individual owner The Reveland-Cliffy From Co. Location of mine or querry: State Muchigan -- Gounty Marquette

Nearest city or town, - Megaunee -- Post-office Megaunee.

General office at -- -- Cleveland, C. 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 emmerators of the census are liable 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 2, 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 enswers 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 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 correct to the best of my knowledge and belief. (Signature of Special Agent) (Signature and official designation of the person furnishing the informa.

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

Regaunce, Located at county of Marquette State of Much

Information supplied by

Cleveland O

(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

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.

none (if none, so state.)

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

(if none se state.)

gross tons.

G. 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.

	1. Character of present organization, w	whether	individua	l. firm	limit	ed partr	mership.				
	1. Character of present organization, whether individual, firm, limited partnership,										
			Ominally:								
				0 w 0 s							
	2. Capital stock, bonds, dividends, and	i asses	aments (if	an ind	orporate	ed compa	any):				
		BON	DS P	REFERRE	D STOCK	COMMON	STOOK				
		NITHERD	TOTAL PAR	No.OF	TOTAL P VALUE	No.OF SHARES	TOTAL P.				
	Authorized		\$		-8		\$				
	Issued to the end of the year		\$		-\$		3				
	Dividends and interest, if any, paid dur	ing th	e year:	140.4							
	Common stock rate				amount						
	Preferred stock, rate										
	Bonds, rate			;	amount	, \$					
	Assassments: Total amount levied, if any	since	organisat.	ion of	company	- 3					
				AVERA	GE No.	TOTAL /	AMOUNT				
	CLASSES.			EMPLO			N WAGES				
77.							CARL TO RESC.				
				DURIN	G IRE	OR SALI	THE YEAR				
	Above Ground-										
	Above Ground- Ceneral officers			YEAR		DURING	THE YEAR				
	Above Ground- General officers	yera.e	to	YEAR		DURING	THE YEAR				
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	Above Ground- Ceneral officers	emiths.	tc	YEAR	H	DURING	2.00 4.78				
	Above Ground- Ceneral officers	emiths.	tc	YEAR	4	DURING - 11	2.00 4.78				
	Above Ground- Ceneral officers	emiths.	tc	YEAR	4	DURING - 111 - 20	2.00 4.78				
	Above Ground- Ceneral officers	aniths.	tc	YEAR		DURING - 111 - 20 - 43;	2.00 4.78				
	Above Ground- Ceneral officers	aniths.	tc	YEAR	- H	DURING	2.00 4.78				
	Above Ground- Ceneral officers	aniths.	tc	YEAR	9	DURING 111 2.0 43;	2.00 4.78				
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	Above Ground- Ceneral officers	emiths.	carpenters	YEAR	- 4 - 9 - 14 ive the	DURING 11 20 43 total pensat	2.00 4.78 7.54				
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	Above Ground- Cemeral officers	e mine	mine or que ent furniel meautters hed by the	YEAR Erry. Good as should companies. Car	14 ive the part con be their v and co	DURING	2.00 4.78 7.54 Salaries ion. The ages, and to them, ten that				
	Above Ground- Ceneral officers	e mine the red or red store furnier tokemit	mine or queent furniel macutters hed by the hing charge ound be rejuited by and a gent furniel macutters and they are a gent furniel macutters.	YEAR Erry. G mad as should companies. Car portsd	14 ive the part on be their vand of early and comparate the should separate the sep	total mensation of the telescope of telescope of the telescope of the telescope of	2.00 4.78 7.54 Salaries ion. The ages, and to them, ken that outholders				
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	Above Ground- Ceneral officers	e mine the control of	mine or que ent furnish negutters hed by the hing charge ound be rep they are se ired direct but be rep	YEAR STry, G med as should compan es. Car portsd alaried tly, end conted conted	ive the part on be their vand of ficial the must be answered to the interpretation of th	DURING 20 23 243; total mensation of tells slv. Stoals. Amore emper to in	4.78. 7.54. 2.00 4.78. 7.54. Salaries ion. The ages, and to them, ten that ochholders ounts ployed in nauiry, 6.				

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	.50.	74	.99	1.84	1.49	174	1.99	2.24	2,49	2.74	2.99	3.24	3.49	3.74	3,99	4.84	over	
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and other									-									
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(8)

Average number of men employed on such work, - - - - - -

N umber of days employed, - - - - -

Amount paid, if any, for tunneling, shaft sinking boring test holes, etc., if not done by employees hired directly by this establishment, \$ 20 - - - -

SUPPLIES AND MATERIAL:

Total cost of supplies and materials of all kinds used during the year, including freight paid on the same, \$ 1053.67

(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 ateel 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 surplies 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 - - -

(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 and materials.) 9. PRODUCT:

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-

CLASS.		
	MACBER	TOTAL HORSEPOWER
Steam		45
Water wheels		
b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY Horsepower, G. POWER SUPPLIED BY OTHER ESTABLISHMENTS, IF ANY Kind of power,		-

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 horsevower of all engines, motors, water wheels ste., 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 - - Walunteer Character of mineral, - - - Aron Ore Hame of company, firm, or individual owner, Not operated by Clevid-Cliffed Co. Location of mine or quarry: State Muchigan - - ; county, Marquette Nearest city or town . Palmer - - - Post-office,- - -General office at - - -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 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 liable 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: Section 22 * * * " And every president, treasurer, secretary, director, egent, 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 enswers to any of the schedules, inquiries, or statistical interrogatories provided for by this act are herein required, who shall, if there's 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. and correct to the best of my knowledge and belief. Mm & Marker Prist This is to certify that the information contained in this schedule is complete (Signature and official designation (Signature of Special Agent) of the person furnishing the informe. 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.

IRONORE Statistics of iron ore mined during the year ending December 31, 1902, at the Columber name or designation of mine.)

Located at Pulmer Information supplied by

Um & marker Prest

(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 cre produced, and if more than one of the following classes is mined give amount of

Limonite, brown hematite, or bog ores: 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.

Notoherated by acdou.

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

(if none so state.)

G. 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.

	1. Character of present organization, w	hether	individ	hual	, firm	, limite	ed parti	mership,		
	cooperative association, or incorporated company:									
	2. Capital stock, bonds, dividends, and	i asses	aments (if	an ine	orporate	ed compa	eny):		
		BON	ps	PR	EFERRE	D STOCK	COMMON	STOCK	T	
				PAR	No.OF	TOTAL P	No.OF	TOTAL P.	0	
		NUMBER	VALUE		SHARES	VALUE	SHARES	VALUE	-	
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	Issued to the end of the year		\$			-\$	10 No. 14 1	-\$		
	Dividends and interest, if any, paid dur	ing th	e year:							
	Common stock rate									
	Preferred stock, rate				;	amount	, \$			
	Bonds, rate									
					334 Y					
	Assessments: Total amount levied, if any	aince	organiz	zatl	on of	company				
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carpenters.																		
and other			340															
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7 SUPPLIES AND MATERIAL:

fotal cost of supplies and materials of all kinds used during the year, including freight paid on the same \$ 242

(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 oils machinery surplies.etc.)

8. MISCELLANEOUS EXPENSES:

ITEMS.	AMOUNT
Royalties and rent of mine and mining plant	-32173 56
Amount paid for rent of offices, taxes, instrance, interest advertising,	
office supplies, law expenses, injuries and damages, telegraph and tele-	m41 21
phone service, gas, and all other sundries not reported elsewhere	1/2.06
phone service, gas, and all other sundries not reported elsewhere Total	\$ 4.045.92
£ 2 4 9 £ 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

(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 supplies and materials.) 9. PRODUCT:

Total quantity of mineral or stone mined during the year, None

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-

	NAME OF STREET OF STREET, STRE	TOTAL MORSEPOWER
Steam	- V -	
Other power(specify kind)	- V	- V

b. POWER SUPPLIED TO OTHER ESTABLISHMENTS, IF ANY

O. 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 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 purposes.)

UNITED STATES CENSUS OFFICE. Special schedule No. 6 Division of Manufactures. S.N.D. North, Chief Statistician. AND QUARRIES.
Tilden Mine QUARRIES Name of mine or quarry -- -Name of company, firm, or individual owner, - Drow Cliffs Co. _ _ _ Location of mine or querry: State, Muchigan - - Gounty, Marquelle
Nearest city or town, Lapleming - - - Post-office Superming General office at - - -UNITED STATES CENSUS OFFICE, Washington, D. C., Jamuary 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 inthe 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 Consus EXTRACT FROM ACT OF CONCRESS, MARCH 2, 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 to 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 information contained in this schedule is complete and correct to the best of my knowledge and belief. Mrs & Mather Rest 0 0000000000000000 (Signature of Special Agent) (Signature and official designation of the person furnishing the informs. 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.

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

Tilden (Marquette)
(Give name or designation of mine.)

Located at Shhenning

County of Marquette State of Much

Information supplied by

Mrs greather Orest

(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 to

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

(if none se state.)

G. 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.

in 1901 140

\$ 3,56250